



STAFF REPORT

Date: Tuesday, September 13, 2016

To: Bryan H. Montgomery, City Manager

From: Kevin Rohani, P.E. Public Works Director/City Engineer

Subject: Agreement with BKF Engineers, Inc. for Engineering Design Services Associated with CIP Project Number 191 – Laurel Road and Rose Avenue Intersection Improvement Project

Approved and Forwarded to City Council:



Bryan H. Montgomery, City Manager

Background and Analysis

The City's adopted FY 2016/17 Capital Improvement Program (CIP) Budget designates funding for various infrastructure repair and replacement projects. This is consistent with the City's goals to improve the quality of the City's public infrastructure and to enhance the quality of life for our residents.

The intersection of Laurel Road and Rose Avenue is a major intersection in the City of Oakley on an arterial road that is not signalized. Currently, this intersection operates as a four-way stop and has one lane of traffic in each direction. This project will widen the intersection, construct a new traffic signal, and improve the traffic flows on Laurel Road at Rose Avenue. This project is in conjunction with a private development project that will widen the south side of Laurel Road to the east; and the City of Oakley's Capital Improvement Project (CIP 196) which will widen the north side of Laurel Road from Rose Avenue to Mellowood Drive.

Improvements for this project will also include street lights, utility pole relocations, curb ramps, drainage improvements, crosswalks, and sidewalks that will connect pedestrians to existing sidewalks along the north side of Laurel, on the west leg of the intersection, and the proposed improvements proposed along the east side of Rose Avenue, and the south side of Laurel Road associated with the conditions of approval for the Duarte Ranch subdivision (9027). School children attending O'Hara Park Middle School and Gehring Elementary School will benefit from these improvements.

This project will be designed in FY 2016/17, followed up with the construction in FY 2017/18.

Staff is proposing that the environmental clearance for the project not be started until the preliminary engineering activities are mostly complete. This will ensure that the exact scope of the project is known so the environmental analysis will include the correct studies for determination of responsible mitigation measures.

Staff prepared a formal Request for Proposal for selection of a design consultant, which was publically advertised and published. A total of four (4) proposals were received in response to City's RFP process. A team of Engineering and Planning staff performed an extensive review of the proposals and qualifications of the consultants who participated in this process. At the conclusion of this process, BKF Engineers, Inc. was identified with the highest rank and most qualified firm to undertake this deign project.

Staff has negotiated the final scope of work and design cost that is best suited for the project and also at a very competitive cost. BKF is the premiere civil and transportation engineering firm in the bay area with in-depth expertise in design and development of roadways and infrastructure improvement projects for a wide range of municipalities.

Fiscal Impact

Approval of the resolution will authorize the City Manager to execute an agreement with BKF Engineers, Inc. for a cost not to exceed \$140,289.80. The 2016/17 Fiscal Year Capital Improvement Program budgeted \$150,000 for the design for this project from TIF funds.

Staff Recommendation

Staff recommends that the City Council adopt the resolution approving the proposal and to execute an agreement with BKF Engineers Inc. for design services associated with CIP 191 – Laurel Road and Rose Avenue Intersection Improvement Project and authorizing the City Manager to enter into an agreement.

Attachments

- 1) BKF Engineers Inc. Proposal
- 2) Resolution

Attachment 1

July 27, 2016

Kevin Rohani, PE, Public Works Director/City Engineer
City of Oakley
3231 Main Street
Oakley, CA 94561

Subject: Proposal for Design Services & Preparation of Plans, Specifications, & Cost Estimate For CIP No.191 - Laurel Road & Rose Avenue Intersection Improvement & Signalization Project

Dear Mr. Rohani:

It is with continued interest and excitement that we are responding to your request for proposals pertaining to the City of Oakley (City) Intersection Improvements and Signalization at Laurel Road & Rose Avenue, Project CIP 191. The following proposal highlights BKF Engineers (BKF) team's commitment, expertise, and resources necessary to prepare high quality design documents while keeping in mind the budget and schedule.

Established in 1915, BKF Engineers built its reputation on our ability to plan, design, and successfully implement projects in support of municipalities. We believe the following represent our essential qualifications:

- ✓ **Core Values.** BKF's core values integrate the principles defined in terms of: Manage, Define, Develop, and Validate. We manage expectations and stakeholders concerns. We develop options, alternatives, and deliverables that provide contextually based solutions. We validate the design and ensure that it meets the project goals and is a high quality document. BKF delivers projects that are economical, practical, and respective of the community they serve.
- ✓ **Experienced Team.** BKF's corporate structure utilizes permanent standing teams assigned and committed to specific projects aligning with their expertise. As Project Manager, Mr. Wang will lead the design effort and will be supported by Ms. Bernardi as Principal-in-Charge. Mr. Cecilio has been assigned to the project as the QA/QC Engineer. All key personnel provided within this proposal are committed and available for the duration of the Project. The team is comprised of engineers and surveyors who are well versed in the specific requirements of your Project. They are engineers who have worked on numerous intersection projects that involve pedestrian improvements, traffic signal installation and modification, lane revisions, stage construction and right of way engineering. Additionally, our subconsultant, PARIKH CONSULTANTS, will provide geotechnical engineering service for pavement sections for the proposed roadway widening.

In addition to our team qualifications, in the proposal that follows, we will present our understanding of the design services' needs, our straight forward and simple design approach to the project challenges, and our commitment to meet the schedule and budget.

BKF Engineers is proud of its record on client service and delivery of quality documents. This is confirmed by the fact that as a firm we have not been named in any past or pending lawsuits of litigations within the last two years.

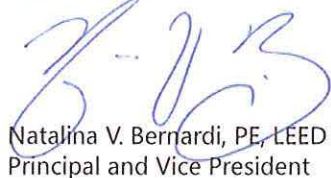
Rest assured, our team's enthusiasm, experience, and proactive approach will meet or exceed your expectations. BKF welcomes this opportunity to continue our working relationship with the City of Oakley by providing a comprehensive service approach to implement the Projects. Natalina Bernardi, PE, LEED AP, Principal and Vice President is fully authorized by BKF Engineers to contractually bind the firm and will be the contact for these Projects and she can be reached at:

BKF Engineers

4670 Willow Road, Suite 250
Pleasanton, CA 94588
Phone: (925) 396-7700
Fax: (925) 396-7799
Email: nbernardi@bkf.com

We look forward to discussing this project with you further.

Very truly yours,
BKF ENGINEERS



Natalina V. Bernardi, PE, LEED AP
Principal and Vice President



CITY OF OAKLEY

Proposal to Provide:

DESIGN SERVICES AND PREPARATION OF PLANS, SPECIFICATIONS,
AND COST ESTIMATE FOR CIP NO.191

LAUREL ROAD AND ROSE AVENUE INTERSECTION IMPROVEMENT AND SIGNALIZATION PROJECT



Duane & Britton Avenues
Improvement Project, Sunnyvale



Sunnyvale Ave./Old San Francisco Rd.
Intersection Sunnyvale



Highway 9/University Ave.
Intersection, Los Gatos



Los Altos Downtown Street
Improvements, Los Altos

July 27, 2016
BKF No. PP20167094

Natalina Bernardi, PE, LEED AP
t: 925.396.7700
e: nbernardi@bkf.com

BKF Engineers
4670 Willow Road, Suite 250
Pleasanton, CA 94588

Delivering Inspired Infrastructure



PROPOSAL FOR:

**LAUREL ROAD AND ROSE AVENUE
INTERSECTION IMPROVEMENT AND
SIGNALIZATION PROJECT**

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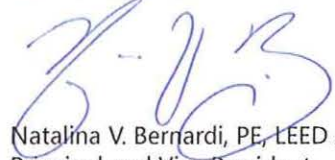
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Very truly yours,
BKF ENGINEERS



Natalina V. Bernardi, PE, LEED AP
Principal and Vice President

PROJECT UNDERSTANDING

BKF Engineers (BKF) understands the City of Oakley (City) is seeking proposals from qualified firms to prepare construction-ready plans, specifications, and cost estimates (PS&E) for the construction of intersection modifications and signal installation at Laurel Road and Rose Avenue, City Project CIP 191.

BKF will provide project management, preliminary design and final design services for the purpose of plans, specification and cost estimate (PS&E) ready for advertisement, bid, and award. BKF is supported by our sub-consultant Parikh Consultants (PARIKH) who will provide geotechnical engineering service for new pavement section.

The BKF Team is streamlined and readily available to start immediately, has significant resources of specialized consultants and experienced personnel, and has a proven track record in delivering fast-tracked projects involving intersections layout, signal modification, sidewalk installation, roadway grading and drainage system modification. BKF has an established history of providing local agencies with professional design and consulting services for the delivery of PS&E for construction. Our understanding of the Project is based on the following:

- » Intersection modification and new traffic signal installation at Laurel Road and Rose Avenue.
- » Widen Laurel Road, approximate 200' on both sides of Rose Avenue, to meet the City four lanes arterial roadway section requirement. Provide northbound left turn lane on Rose Avenue.
- » Install a new traffic signal system with City standard signal poles, mast arm, vehicular and pedestrian signal indications, video detection.
- » Construct a new sidewalk on all four corners of the intersection and install ADA-compliant ramps.
- » Remove or relocate existing utilities within the roadway widening areas in conflict with the work.
- » Install new storm drain system within the project limits. The proposed storm drain system will tie into the existing City storm drain system on west side of Rose Avenue.
- » Prepare right-of-way plats and legal descriptions for right-of-way acquisition.
- » Coordinate closely with the City and two other projects, CIP 196 and the development project at south- east quadrant of the intersection, within the vicinity of this project.

Over the past 30 years, BKF Engineers has been involved in hundreds of intersection layout, signal modification and sidewalk installation design projects throughout the San Francisco Bay Area, from project inception, through conceptual design, all the way to construction.

As summarized in this section, with our solid understanding of the Project setting, constraints and opportunities, the BKF Team has developed a clear and comprehensive project approach for the Project CIP 191, that includes:

- » Project Understanding
- » Project Approach/Methodology
- » Work Plan

Additionally, to supplement our Project Understanding, BKF has identified key issues highlighted in our key issue dialogue boxes which summarize and focus on several project constraints/challenges, opportunities, and specific tasks or questions that will be addressed, coordinated, and reconciled/resolved during the Project.



PROJECT APPROACH/METHODOLOGY

BKF proposes to implement its four step technical approach which integrates the following key components: **managing** the process; **defining** the critical constraints; **developing** a complete work plan and coordinated design documents; and **validating** constructability in ensuring project delivery. BKF's approach is comprehensive and considers all phases of the Project. It involves nurturing the relationships established with the stakeholders, following through with a comprehensive Scope of Work (SOW) executed by an experienced staff which is continuously monitored by the **Project Manager, Jeff Wang, PE**, to ensure the delivery of an approved and environmentally cleared Project and PS&E documents for bid and advertisement. We developed the approach based on our years of experience and project implementation, which included ensuring that multiple tasks and project phases can be performed in parallel to maintain and accelerate project schedules. We believe this approach will be instrumental in delivering the City's Project in efficient manner.

STEP ONE

BKF will **manage** the process by understanding and obtaining the City's confirmation on our detailed Project scope, budget and schedule. This includes having committed and experienced personnel on the team led by our experienced Project Manager.

This step is undertaken at the initiation of the Project during Task 1, Project Start-up & Site Investigation, of the SOW. Although management is identified as specific tasks, ensuring that the work and commitments made during this step will be continuously monitored throughout the Project duration, will provide a seamless and expedited project delivery.

The BKF Team is readily available, has significant resources of specialized and experienced personnel, and has a proven track record in delivering fast-tracked projects involving intersection modification, roadway and signal design. With BKF in house survey and traffic department the project manager will ensure the fast track task for preparing traffic signal plans plats and legal documents for the Project to make sure the final PS&E will be delivered on time.

STEP TWO

The **definition** of the Project will first include having a thorough understanding of the Project via review of existing available Project data and clarity of the City's current goals and objectives, including stakeholder's

issues and expectations. With this, we will be identify any obstacles or critical issues early in the design process so that they may be recognized, brought to the City with recommended solutions and resolved with the City's concurrence.

In conjunction with the development of the Project SOW, budget and schedule, BKF's approach recognizes that the Project affects multiple stakeholders whose consensus is necessary to obtain project approval. To have the Project move forward, BKF's approach is to quickly review and assess the existing available information. This includes reviewing the existing work and ensuring that the design is still in compliance with current design standards and guidelines.

Key Issue #1 – IDENTIFY OBSTACLES OR CRITICAL ISSUES

BKF will be identify any obstacles or critical issues early in the design process so that they may be recognized, brought to the City with recommended solutions and resolved with the City's concurrence.

The following are possible critical issues that have been identified for this Project:

- » Coordination with the CIP 196 and the development project at south- east quadrant of the intersection
- » Intersection layout with truck tuning analysis
- » Early coordination with utilities stake holders for possible utilities removal or relocation
- » ADA compliance for all pedestrian facilities
- » One wheel chair ramp vs. two wheel ramps at each corner of the intersection
- » Right-of-way constrains at each corner of the intersection to ensure a ADA incompliance
- » Proper storm drainage system for roadway widening along Laurel Road
- » PG&E electrical service application for the proposed traffic signal system at the intersection of Laurel Road / Rose Avenue
- » Type of LED luminaire for the intersection safety light to maintain proper lighting level required by MUTCD
- » Stage construction and traffic control measures during the construction



With the objectives and goals known the BKF team will be able to engage the next step and to prepare conceptual design and address any issues before proceeding further with the project. Working continuously with the City and defining the Project, its goals, and objectives will allow seamless design refinement and development in the subsequent step, that can validated and then used to engage stakeholders and solicit ideas, recommendations and comments for ultimate project improvements and approval.

STEP THREE

The **development** of the PS&E will require not only understanding the PS&E approval process, but providing thorough, expert, and experienced design services in refining and finalizing the ultimate design of the project.

With an approved concept plans BKF will work closely with the City as well as the affected 3rd parties (utility providers, stakeholders and businesses/residents) to ensure that all bases are covered in the approval PS&E.

To implement Step 3 of the approach, BKF has developed a detailed work plan which identifies the scope of work to be performed for each task reflected in our level of effort summary found at the end of this section. The development of the PS&E is simple and streamlined and will involve the following:

- » Task 1 - Project Start-up & Site Investigation
- » Task 2 – Analysis and Conceptual Design
- » Task 3 – Design Development - 35% Submittal Package
- » Task 4 – Construction Documentation - 65% PS&E, 90% PS&E, 100% Final (Bid Set) PS&E

STEP FOUR

Our last step in our four-step approach, which is a continuous process throughout the Project, is the **validation** of the Project. BKF is committed to providing excellent services, and we stand behind our work. We have a fine-tuned our quality control and quality assurance (QA/QC) program overseen by our dedicated **QA/QC Engineer, Carmelo Cecilio, PE** for design, reports, plan, specification, estimate production, and project process efforts.

This validation and QA/QC process enables us to quickly develop practical approaches and also provides experienced input in cost estimating, constructability, end-user operations and maintenance, and value engineering. This same commitment of monitoring and

Key Issue #2 – PROJECT CONTROL

BKF’s tried-and-true Project Controls assist the Project Manager in producing and delivering coordinated, quality-controlled documents that meet the project delivery, cost and project objectives. BKF will communicate effectively to keep the City apprised, accomplish the work schedule, and to exceed expectations.



validating is extended also to other project components such as scope, budgets, schedules and cost estimates so that no surprises that may delay the Project arise.

With BKF’s four step project approach/methodology, a detailed work plan/scope of work is yielded that is continually monitored and evolving, and we believe that partnering is both aligned and reinforced. This ensures that together with the City and BKF’s leadership, along with the team’s technical expertise in intersection layout, grading & drainage design, traffic signal modification, utility relocation, and right of way services, we will meet our goals and objectives.

WORK PLAN

It is the Project’s ultimate goal to prepare construction contract documents for the purpose of advertising, bidding, awarding and constructing, which comply with all applicable City design standards, requirements, and guidelines. With the project understanding including the recognition of possible risks, challenges, and resolution of key issues to achieve this goal, it is important to have a well-conceived work plan where the risks and challenges are managed, by addressing and mitigating. As an overall project approach to design the City’s three projects we have elaborated on those areas within each task that we will focus on and our approach to ensure project delivery.

Task 1: Project Start-up & Site Investigation

With the notice to proceed from the City BKF will attend a project kick-off meeting with the City to discuss project intent, the limits of improvements, overall project scope, budget & master schedule. BKF will obtain all civil and utilities as-built plans from the City and utilities companies.

BKF will perform topographic field surveys to confirm

grades and physical features. Surveys will be based on City control, presumably NAD 1983 Coordination System and NAVD 1988 Vertical Datum. Additionally, BKF will conduct independent field site visits involving site reconnaissance to verify existing conditions.

Also under this task, PARIKH will perform a geotechnical field work to find R value for the existing soil and prepare a geotechnical report to provide pavement structure recommendations based on the traffic index provided by the City.

Task 1 Deliverables:

- » Detailed CPM Schedule and Updates
- » Project Meeting Materials (Agenda, Minutes, Logs etc.) for all Coordination Meetings
- » Topographic Mapping
- » Existing Utility/Right of
- » Way Mapping
- » Geotechnical report and pavement recommendation
- » Relevant Correspondence
- » Monthly Invoicing Format

Task 2: Analysis and Concept Design

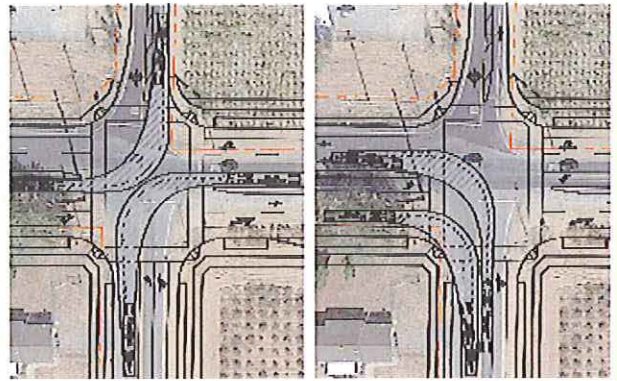
Immediately after Kick-off meeting with the City BKF contact utility companies without delay to request existing roadway and utility as-built plans, record right of way, block maps, and planned/proposed roadway work in the area. During this phase of work, BKF will compile available information, confirm work performed to date, perform investigative studies to progress the design to a level which will finalize and begin to mathematize the geometry and the right of way lines.

Key Issue #3 - PREPARE INTERSECTION CONCEPT LAYOUT

BKF will prepare intersection layout with following key design elements:

- » Intersection lane configuration
- » Coordination with the Project CIP 196 and the development project at south- east quadrant of the intersection
- » Evaluation of existing roadway profile along Laurel Road and provide recommendations for the profile improvements
- » The proposed median island and curb return
- » Intersection truck turning analysis

- » Access driveway to the existing properties
- » Wheel chair ramp and crosswalk layout
- » Preliminary signal layout with proposed signal poles, mast arms and signal phase to be included
- » Existing and proposed right of way delineation



With the available topographic field survey information BKF will prepare preliminary intersection layout with the proposed curb returns, wheel chair ramps, traffic signal equipment including poles, mast arm, signal indications and push buttons.

In anticipation of the work in Task 3 and 4, including updating and refining the intersection layout concept BKF will take this opportunity to open the dialogue and communication with City staff regarding key elements and constrains of the project to make sure the project's goal and needs will be meet.

The goal of Task 2 is to gather all existing and new information and create a basis of conceptual design necessary to move forward with development of a refined intersection and traffic signal design, and address any issues before proceeding further with the 35% level Design Development and Construction Documentation, 65%, 90%, 100% PS&E.

Task 2 Deliverables:

- » Preliminary Intersection with proposed lane configuration
- » Preliminary Driveway Conform Limits at adjacent properties
- » Preliminary Signal Layout
- » Intersection Truck Turing Analysis
- » Intersection lighting photometrics calculation
- » Preliminary cost estimates of the project

Task 3: Design Development

With the City approved intersection layout BKF will start Design Development phase of the project. A 35% level of Design and Development Package will be prepared under this task. This task will involve taking the necessary steps to assess, balance, evaluate, coordinate and integrate the various project components, including the data gathered/compiled in Task 1, standards and requirements, site conditions in order to develop, achieve, and refined the project's goal of pedestrian, bicycle, and vehicular operations and safety at the intersection. The result and deliverable of this first part of this task will be a highly-coordinated and detailed updated, complete and inclusive plans.

The following are several key design issues and considerations:

- » Grading at Intersection
- » Driveway Design Driveway Conforms at Existing Properties
- » Prepare Drainage Memo and Design for roadway widening
- » Verifying Possible Existing Utilities Conflicts with Proposed Signal Equipment, Poles, Cabinets and Push Buttons
- » Coordination with Utilities Agencies for Removal or Relocation of Existing Facilities
- » Obtain Strategically Identified Pothole Information
- » Storm Water Control/ Bioretention area calculations

BKF will essentially revisit the conceptual design during this task and address any and all issues before proceeding further with the project, and specifically the PS&E.

35% Design and Development Package

The 35% Design and Development Package will include a title sheet, typical cross sections, "cut" layout/grading sheets showing the roadway layout of the proposed improvements, including the intersection layout, wheel chair ramp location, pavement work, proposed curb grades and driveway re-grading, catch basin and storm drain design. As part of 35% Design and Development Package traffic signal installation plans, including signal layout and equipment and conductors schedule will be prepared. Signing and Striping sheets will be developed showing the relationship of the guide, warning, regulatory, and traffic handling devices with respect to the proposed intersections improvements.

As part of the 35% Design and Development Package, a more detailed engineer's estimate will be initiated to

reflect the design and construction details. This will be developed to assist the City with the verification of overall projects costs; a higher contingency (15% to 20%) will be used at this submittal, however, the 35% Design and Development Package estimate will be used as a basis to develop the schedule of bid items for all subsequent PS&E submittals throughout the Project. Specific bid items and precise quantities will be taken off, and directly linked and supported by the City technical specifications

BKF will prepare a Drainage Report that documents existing conditions at the intersection. A base map will be provided that documents existing drainage conditions,

Available information of project off-site drainage conditions will be evaluated to establish a recommended downstream water level to be used for sizing on-site improvements. Stormwater treatment criteria will be evaluated. Options such as biotreatment will be investigated. BKF will document flow to catch basins and sizing of stormwater treatment measures. A Draft Technical Memorandum will be prepared that documents facility sizes. A Final Technical Memorandum will be provided that incorporates City comments.

Task 3 Deliverables:

- » 35% Design and Development Package Including,
 - Cover sheet for Construction Plans
 - Typical Cross section Sheets
 - Existing Conditions Plan
 - Demolition Plans
 - Layout Plan
 - Drainage/Utility Plan
 - Bioretention area calculations
 - Drainage Design Memorandum
 - Grading Plan Constructions Details Sheet
 - Traffic Signal Installation Plan
- » Draft Project Specifications
- » More Detailed Construction Cost Estimate
- » Utility Pothole Information (Max - 8 potholes)



Task 4: Construction Documentation

65% PS&E

BKF will attend a meeting with the City staff to review the 35% Design and Development Package comments. BKF will revise plans, estimate and specification per the City's comments and make the submittal for 65% PS&E.

BKF will prepare stage construction and traffic handling plans for inclusion into the contract plans. With stage construction and traffic handling measures being considered during the design phase the City can provide clear direction to the contractor for traffic handling during construction to minimize traffic impact and potential change orders.

Stage construction and traffic handling components will be considered in all phases of plan design development to ensure the construct abilities will not be overlooked.

BKF understands how construction work impacts public and will make it our cause to minimize these impacts and work with the City to implement a construction staging strategy that looks at all aspects of construction. The key is two-fold: to not impose too many restrictions on the contractor so that he may complete the job as efficiently as possible while maintaining a capable, balanced level of access to those who live and work in this area. All traffic handling plans will be prepared in accord with the City standards and MUTCD's guidelines.

BKF will perform an in-house QA/QC review of the documents submitted to the City. BKF's quality control review for the 65% submittal will include the review of the design package for compliance with the governing jurisdictional standards and completeness. The review will focus on ensuring that the plan elements are clearly delineated. The different project sheets will present the design in a common manner with no contradictions or variances.

90% PS&E

BKF will attend a meeting with the City staff to review the 65% PS&E submittal comments. BKF will revise plans, estimate and specification per the City's comments and prepare the submittal for Draft 90% PS&E.

Final 100% PS&E

For the Final 100% submittal, BKF will incorporate or resolve any remaining comments received as a result of the 90% submittal review. BKF will also conduct remaining site investigations. It is crucial that the design engineers are confident that existing field conditions have not changed since inception of the project and are depicted

accurately in the bid-ready documents. Assumptions, in lieu of verifications, are not acceptable; BKF will walk the site with the final bid docs prior to submittal. All remaining aspects of the design will be finalized in order to prepare a complete, checked and bid-ready set of documents. Schedules for utility relocations will be confirmed. The construction cost estimate will be updated and formatted to its final form. BKF will conduct a final quality control review on all documents to ensure that all design elements are thoroughly addressed prior to their submission to the City.

Task 4 Deliverables:

65% PS&E

- » 65% Design and Development Package Including,
 - Cover sheet for Construction Plans
 - Typical Cross section Sheets
 - Existing Conditions Plan
 - Demolition Plans
 - Layout Plan
 - Drainage / Utility Plan
 - Grading Plan Constructions Details Sheet
 - Stage Construction and Traffic Handling Plans
 - Traffic Signal Installation Plan
 - Storm Water Pollution Prevention Plan
 - Plat and Legal Descriptions for Right of Way Acquisitions
- » Technical Specifications
- » Detailed Construction Cost Estimate and Preliminary Bid List

90% PS&E

- » 90% Design and Development Package consisting of updating 65% Plans
- » Final Plat and Legal Descriptions
- » Technical Specifications
- » Cost Estimate and Bid List

Final 100% PS&E (Wet Signed Hard Copy, Auto Cad files, Word Documents and Excel Spread Sheets):

- » Final 100% Construction Plans and Technical Specifications
- » Final Construction Cost Estimate & Bid List



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Delivering Inspired Infrastructure

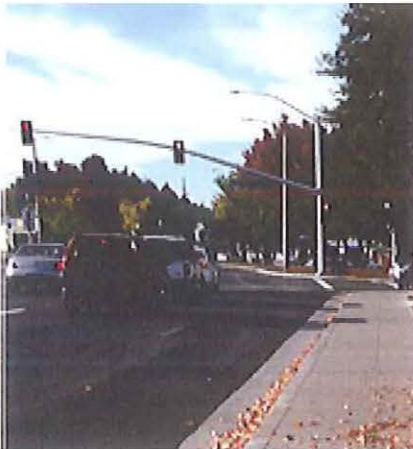
Founded in 1915, BKF has been dedicated to being the leading engineering resource for California for the past century. We are organized as a California Corporation and provide civil, traffic and right of way engineering, surveying, and land planning services for municipalities, government agencies, developers, contractors, and campuses. BKF has enjoyed steady growth and increased capacity over the decades, currently employing a total of **389 staff members, consisting of 149 registered engineers/surveyors, located in 11 offices:**



BKF specializes in many areas of engineering and project management, including sustainable and complete street design, hydrology/hydraulics, traffic signals, R/W engineering, utilities, Caltrans and federally funded projects and 3D laser scanning.

Most recently, BKF has delivered several complete streets and improved level of service projects involving improved bicycle and pedestrian elements and traffic signal modifications with considerations for roadway rehabilitation, non-ADA compliant features and right of way requirements. We recognize that funding is scarce and finding innovative solutions are critical to delivering services our community's desire and are thus committed to developing designs that meet our clients' budgets and goals.

We value integrity, quality, leadership, and results. Our perspective comes from nearly 100 years of experience. We know that providing the best service requires unsurpassed attention to detail and unrivaled dedication to quality. Understanding the complexities of a project and the local agency's requirements come as standard practice. Understanding the complexities of your particular project is our specialty.



BKF collaborated with the City of Sunnyvale to provide improved traffic operations via a new signal and signal modifications to the adjacent intersection. The work was accompanied by lane designation changes, increased storage lengths, the extension of sidewalk and bike facilities, bulb outs and ADA upgrades at Sunnyvale Avenue/ Old San Francisco Rd/El Camino Real. BKF design efforts and assistance with the E-76 process ensured that the funding for the project construction was preserved by meeting the accelerated design schedule.

CIVIL ENGINEERING

- Site Development
- Green / Sustainable Designs
- Streetscape and Roadway Design
- Pavement Rehabilitation
- Parking Planning & Design
- Grade Separations
- Joint Trench & Utility Coordination

TRANSPORTATION

- Street and Intersection Design
- Complete Street Design
- Pedestrian & Bicycle Improvements
- Traffic Signals and Roundabouts
- Traffic Studies
- Highways and Interchanges
- Traffic Circulation
- Light and Heavy Rail

SURVEY

- GPS and Topographic Surveys
- Right of Way Mapping
- ALTA Surveys
- High Resolution Scanning
- G.I.S. Mapping
- Boundary Surveys
- Construction Surveying

WATER RESOURCES

- Storm, Sewer and Water Systems
- Storm Water Quality Compliance
- Erosion Control & SWPPP
- Pump Stations
- Detention Systems
- Hydraulic & Hydrology Studies
- Masterplanning, Design & Construction

LAND PLANNING

- Master Planning
- Zoning Modification
- Permit Application
- Contract Planning to Public Agencies

ENTITLEMENT SUPPORT

- Review Permit Requirements
- Hard/Soft Cost Estimates
- Environmental Review Support
- Tentative Map Preparation
- Scheduling
- Feasibility Studies
- Due Diligence Reports

SPECIALTY SERVICES

- Landfill Reclamation
- Wetlands Permits
- Project Management
- Differential Settlement Site Design
- LEED Documentation Support
- Construction Management



MAIN STREET DOWNTOWN VISION Oakley, CA

Main Street which was a bypass for State Route 4 is the entrance of the City of Oakley’s Downtown. Given the high volume of traffic using Main Street as a bypass, local patronage for Downtown businesses was lacking which was reflected in the visual landscape of the corridor. With Caltrans’ construction of the State Route 4 Extension, Main Street was relinquished to the City of Oakley. As the City has gained jurisdiction over their downtown corridor, they were now looking at developing a vision for their downtown that they could use to attract investors and retailers, inspire patronage and provide a safer and attractive multi-use roadway in compliance with complete street concepts.

BKF Engineers with its subconsultant Gates + Associates was chosen to lead the effort in developing the Downtown Vision Masterplan and engage the community for input and consensus. In order to provide traffic calming, the design included narrowing the roadway through the addition of landscaped medians, providing wide sidewalks for outdoor dining and pedestrian mobility, adding bulbouts and pedestrian median refuges at intersections and the installation of vertical elements within the median to provide interest and a sense of place. To promote a destination where the community could enjoy and spend time, the roadway grid outside in the vicinity of Main Street was analyzed and recommendations were made for pedestrian corridors and roadway grids that could maximize the line of sights and access to businesses. In addition to defining the roadway elements, criteria was established for building architecture that considered the newly constructed City Hall and outdoor plaza.

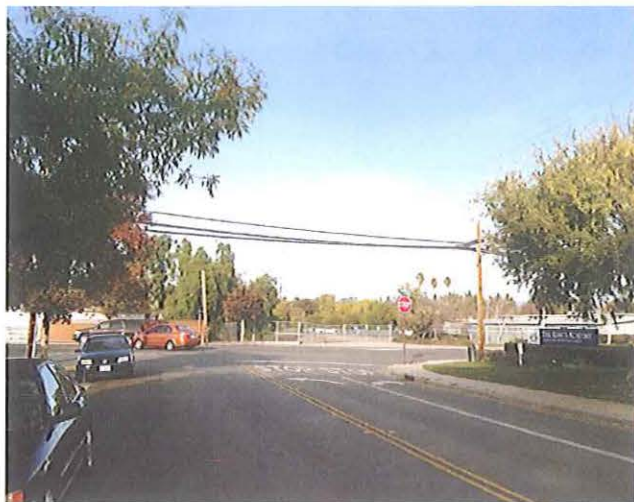
BKF and Gates conducted several meetings with focus committees consisting of Council members and business owners to obtain input and achieve consensus prior to engaging the public. The final master plan and Downtown Vision was presented at two public meetings and eventually a City Council meeting for approval and concurrence to adopt the vision for future development and work within Oakley’s Downtown.

After completing the Downtown Vision Masterplan, BKF assisted the City in its pursuit to capture funding for the reconstruction of Main Street from Norcross Street to 2nd Street which is the core of the downtown. Given this effort, funding has been obtained and BKF and Gates are currently working on the construction documents to implement a focal phase of the Downtown Vision Masterplan that would positively confirm that the Main Street is no longer a vehicular facility but a true complete street serving the community and revitalizing the area.

PROJECT DURATION
2014 – 2015

CURRENT PROJECT
STATUS
Complete

PROJECT REFERENCE
Mr. Kevin Rohani
City of Oakley, Public
Works Director/City
Engineer,
(925) 625-9194
rohani@ci.oakley.ca.us



DUANE AND BRITTON AVENUES IMPROVEMENT PROJECT

Sunnyvale, CA

BKF provided the civil and traffic engineering service for the City of Sunnyvale to install a new traffic signal system at the intersection of Duane Avenue and Britton Avenue. The intersection is located next to the King’s Academy, a private high school with enrollment of 800 students.

The project was funded by the City to improve school safety. The scope of project included installation of a new traffic signal system, intersection photometric lighting analyses, wheel chair ramp addition, signal interconnection with adjacent intersections and coordination with the King’s Academy for stage construction and traffic handling. The project also included coordination with PG&E to resolve possible overhead line conflicts with the proposed safety lights on top of the signal poles. Some of the mitigation measurements included moving the signal pole away from the existing overhead line with longer mast arm or reducing the pole mounting height; not only to meet CPUC’s clearance requirement but also OSHA safety requirements for the construction and future maintenance of the signal pole. BKF also helped the City to process a new electrical service point with PG&E for the proposed traffic signal system. Additionally, BKF is providing construction support services to review contractor’s submittals and resolve any issues with unforeseen underground utilities conflicts during construction.

PROJECT DURATION
2013 – Current

CURRENT PROJECT
STATUS
Complete

PROJECT REFERENCE
Ms. Lilliana Price
(408)-730-7543
lprice@sunnyvale.
ca.gov



SUNNYVALE AVENUE/OLD SAN FRANCISCO ROAD INTERSECTION

Sunnyvale, CA

The City of Sunnyvale obtained Federal and State funding to improve the operations and safety of the Sunnyvale Avenue/Old San Francisco Road/El Camino Real intersections. The project also included the construction of a new, signalized southbound left-turn access from southbound Sunnyvale Avenue to Old San Francisco Road to alleviate traffic on Olive Avenue and provide southbound left turn access to the Palo Alto Medical Foundation.

BKF provided civil engineering design and support services which included obtaining NEPA and CEQA environmental certification, surveying, preparation of construction documents, traffic signal design, removal of the existing pork chop island, enhanced pedestrian and bicycle facilities, aesthetic treatment, drafting E-76 authorization documents and construction support assistance. Since the project was funded by a federal grant, BKF drafted all contract documents in compliance with federal and state regulations and procedures and facilitated and obtained project approval from Caltrans' Local Assistance Coordination. The design also required multijurisdictional approval and utility relocation coordination.

During the preliminary design, the impacts to the Sunnyvale Ave/ El Camino Real intersection required adding a second left-turn lane, eliminating the free-right turn and lane realignment through the intersection. In the development of the intersection geometry, the design was carefully evaluated for grading, stage construction, and pedestrian access and safety. The design was completed by maintaining pedestrian visibility and implementing ADA features without restricting vehicle movements through the intersections. BKF was also able to protect utilities in place with minor utility box adjustments.

PROJECT DURATION
2011 – 2014

CURRENT PROJECT
STATUS
Complete

PROJECT REFERENCE
Ms. Jennifer Ng
(408) 730-7430
jng@ci.sunnyvale.ca.us



HIGHWAY 9/UNIVERSITY AVENUE INTERSECTION PROJECT

Los Gatos, CA

The Town of Los Gatos obtained a State grant to improve the level of service and safety of the intersection of Highway 9 and University Avenue. The intersection operated at an unsatisfactory level of service creating long vehicular queues that exceeded the storage capacity of the intersection.

The project widened the existing roadway and narrowed the median to accommodate an additional left turn lane in the southbound direction for additional left turn storage capacity. In the northbound direction, a dedicated right turn lane was added to facilitate right turn movements onto eastbound Highway 9. Adding storage capacity to the intersection's turn lanes was a critical improvement since Highway 9 at University Avenue provides a direct connection to Highway 17. As part of the safety improvements, the existing direct access from Wright Avenue to Highway 9 was eliminated, and the pork chop island in the southeast quadrant was removed. New curb ramps and crosswalk realignment were added to make the intersection ADA compliant and improve pedestrian safety. Utility relocations and right of way acquisition was required at the southeast corner to accommodate the new signal equipment. The project modified the existing traffic signal to help improve the intersection's level of service, the signal phasing was upgraded to a full eight-phase signal with protected left turn movements in all approaches. BKF provided engineering and design services for the Project, including surveying, preparation of construction documents (PS&E), traffic signal modification design, right of way engineering and utility relocation. The intersection of Highway 9 and University Avenue is within state right of way, but is operated and maintained by the Town of Los Gatos. This required multi-jurisdictional approvals and coordination from both local and state agencies.

PROJECT DURATION
2010 – 2014

CURRENT PROJECT
STATUS
Complete

PROJECT REFERENCE
Mr. Jessie P
(408) 395-2859
jpu@losgatosca.gov



LOS ALTOS DOWNTOWN STREET IMPROVEMENTS

Los Altos, CA

BKF provided civil engineering, surveying and right of way services for the design for the First Street Streetscape Improvement Project in downtown Los Altos. BKF lead the design team and worked closely with the City and community to develop and refine a design that describes the unique character as well as promote future developments in the historic downtown area. The proposed work was to integrate this new design including pedestrian oriented facilities on First Street between Main Street and West Edith Avenue and four separate prominent intersections.

Key elements utilized in accomplishing these objectives included wider sidewalk areas, pedestrian circulation and safety improvements such as accented mid-block crossings, bulb-outs, and traffic-calming measures including a median and narrow travel lanes and the undergrounding of overhead utilities. BKF prepared alternatives to assist the community in evaluating the delicate balance of bicycle facilities, on-street parking, landscape enhancements, and outdoor dining areas in the narrow 50 foot wide right of way.

BKF worked with the City to assist in the transfer of ownership for the new traffic signal over to the County of Santa Clara. For the design of the new traffic signal at the intersection of First and Main in Downtown Los Altos we balanced the City's needs for decorative traffic signal and lighting design with that of the county's standards for an integrated and interconnected system to achieve an overall well-balanced design. The signal design also required the right of way acquisition at the corner of Main Street and First Street.

An important element of the project, was the detailed stage construction and traffic handling plans that were developed by BKF to ensure continuous access to businesses and accessibility for all modes of traffic.

PROJECT DURATION
2011 – 2014

CURRENT PROJECT
STATUS
Complete

PROJECT REFERENCE
Mr. Dave Brees
(650) 947-2888
dbrees@losaltosca.gov



HIGHWAY 1/HIGHWAY 9 INTERSECTION IMPROVEMENT PROJECT

Santa Cruz, CA

For the City of Santa Cruz and Caltrans District 5, BKF provided civil engineering design, surveying, and right of way engineering services to support the Project Approval and Environmental Document (PA&ED) phase, and is currently underway with the preparation of Plans, Specifications and Estimate (PS&E) for the construction of the intersection improvements at Highway 1/Highway 9, as well as the associated roadway widening improvements along Highway 9 and River Street. The project addresses the significant delay and operational congestion at the existing signalized intersection and roadway corridors, as well as the safety issues related to pedestrians and bicycles crossing Highway 1.

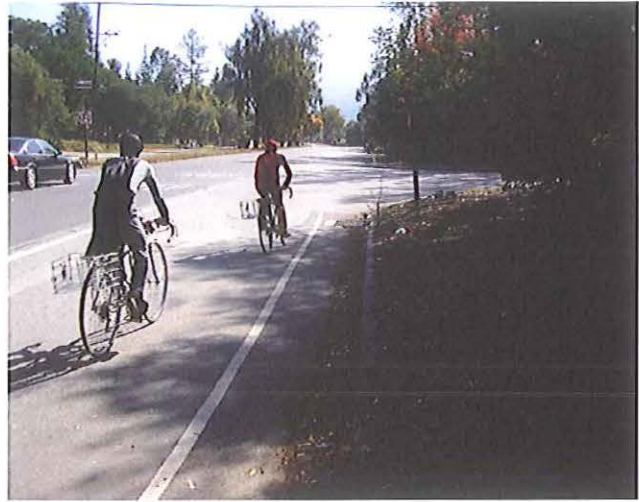
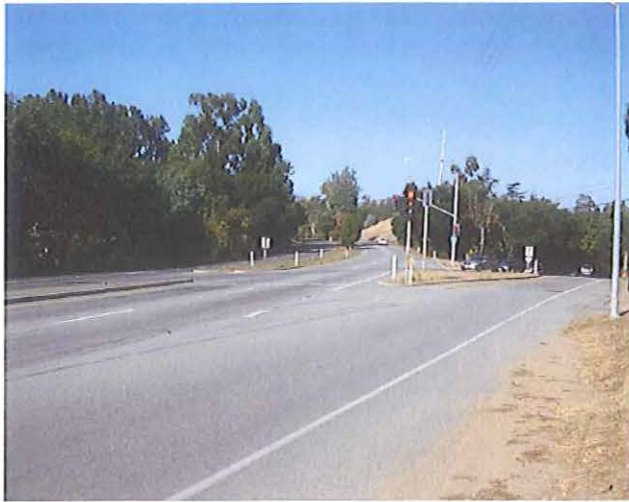
BKF Engineers facilitated and led a team to develop an environmental document (ED), traffic operational analysis report, drainage report, geometric concept plans and Project Report through Caltrans District 5. In order to improve bicycle/pedestrian safety and alleviate congestion at this intersection, BKF developed geometric alternatives and intersection modifications to include a Class III Bikeway (Bike Route), an additional vehicular lane, as well as ADA compliant pedestrian facilities. The project included working with and obtaining consensus from the City, Caltrans, AMBAG, and FHWA to facilitate both CEQA and NEPA clearances for the environmental document.

Existing improvements were evaluated and proposed improvements were added to improve the circulation of the traffic operations through this busy corridor. Two traffic signal modifications (Hwy 1/9, and Hwy 9/Encinal) are under design, including temporary signal conditions during construction/staging, and will be implemented as part of the Caltrans encroachment permit.

PROJECT DURATION
2004 – present

CURRENT PROJECT
STATUS
Complete

PROJECT REFERENCE
City of Santa Cruz,
Mr. Chris Schneider,
Assistant Director/
City Engineer, (831)
420-5422, cschneider@
ci.santa-cruz.ca.us



HIGHWAY 9 SAFETY IMPROVEMENTS

Los Gatos, Monte Sereno, Saratoga, CA

BKF Engineers led a team consisting of structural, geotechnical, traffic, and environmental designers/engineers, in preparing a master plan and construction documents for the Highway 9 Safety Improvement Project. The Project was a Multi-Phase/Jurisdictional Project that spanned 7 miles long along Highway 9 in Caltrans R/W through the Cities of Monte Sereno, Saratoga and the Town of Los Gatos.

Highway 9 is a heavily utilized recreation corridor and a vital community corridor to access schools and businesses. As the focus of the project was to improve bicycle and pedestrian safety, bike lanes, pedestrian/bicycle paths, ADA compliant curb ramps, median refuge islands, in-pavement lighting, warning devices and striping enhancements were added to increase the safety for the non-vehicular users.

The existing highway meanders through heavily-wooded and vegetated residential areas. Due to the constraints of the existing cross section and hilly topography, BKF's design challenge was to identify areas along the corridor that were inadequate to support bicycle use and could readily receive minor widening pavement rehabilitation, and restriping improvements to provide the additional shoulder width. Sidewalks gaps were constructed along hillsides with walls that maintained the aesthetic qualities of the roadway. BKF conducted several field visits to identify choke points and constraints and prepared several value-analysis design concept alternatives balancing cost, safety-enhancement, non-standard design features, utility impacts, and environmental issues. BKF ultimately obtained community, City, and Caltrans consensus and proceeded with construction documents that addressed roadway improvements, traffic/ signalized intersections, storm drainage, grading, and pavement rehabilitation in accordance with Caltrans' standards and in compliance with federal requirements prescribed by grant funding. BKF also prepared supporting documents to procure the E-76 approval from Caltrans Local Assistance.

PROJECT DURATION
2006 – 2008

CURRENT PROJECT
STATUS
Complete

PROJECT REFERENCE
City of Oakley, Mr. Kevin
Rohani (Former Town of
Los Gatos City Engi-
neer), (925) 625-9194,
rohani@ci.oakley.ca.us

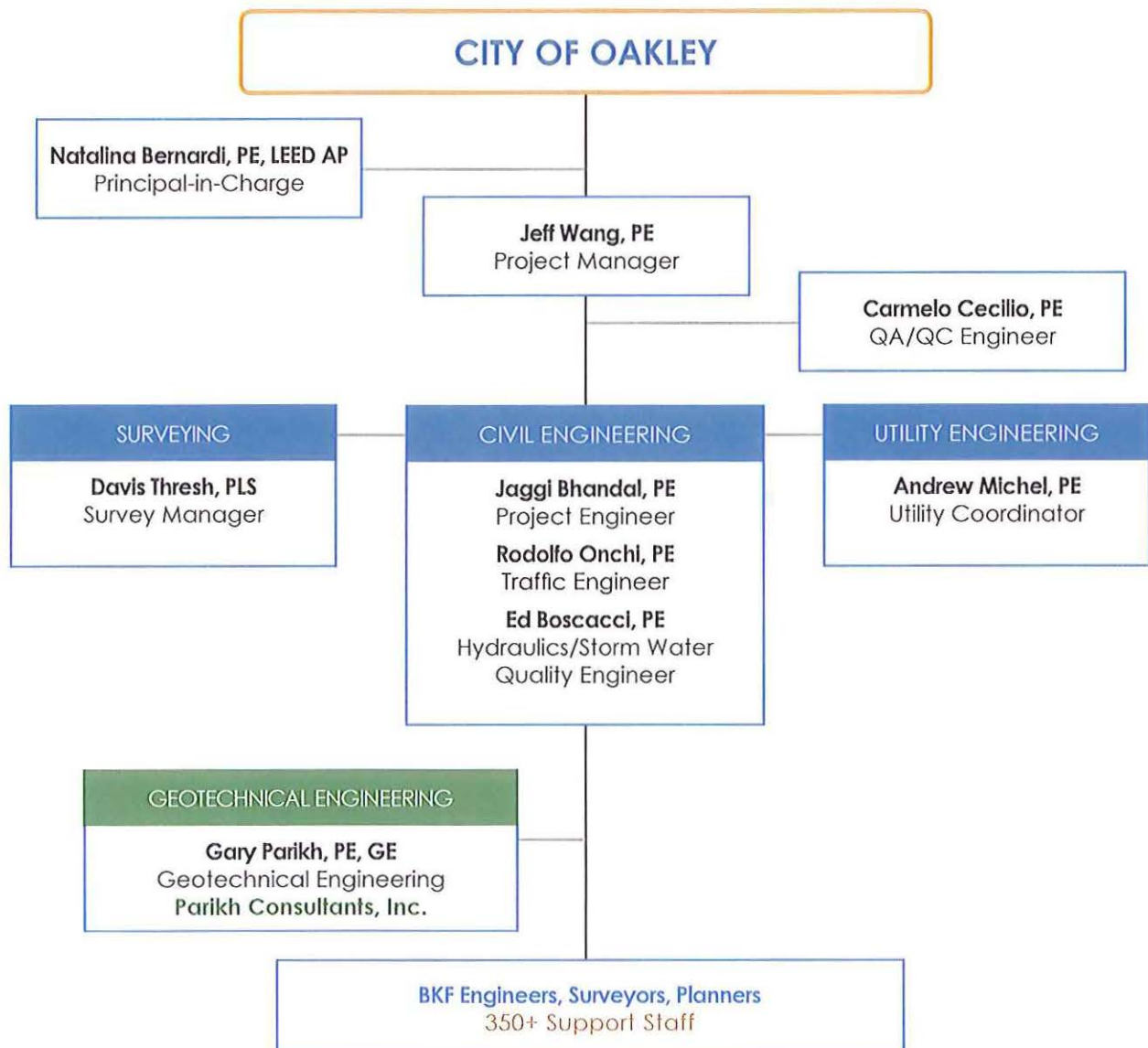
PARTIAL LIST: TRAFFIC SIGNAL INSTALLATION AND MODIFICATION PROJECTS

PROJECT	LOCATION	PROJECT	LOCATION
Atlantic Avenue/Third Street	City of Alameda	Jackson Avenue/Mather Drive	City of San Jose
Atlantic Avenue/Poggi Street	City of Alameda	Meridian Avenue/San Carlos Street	City of San Jose
Atlantic Avenue/Webster Street	City of Alameda	Lincoln Avenue/San Carlos Street	City of San Jose
Deer Valley Road/Wellness Way	City of Antioch	Jackson Avenue/McKee Road	City of San Jose
Deer Valley Road/Sand Creek Road	City of Antioch	King Road/McKee Road	City of San Jose
Central Boulevard/Walnut Boulevard	City of Brentwood	Coleman Avenue/Hedding Street	City of San Jose
Brentwood Boulevard/Sunset Road	City of Brentwood/Caltrans	Coleman Avenue/Taylor Street	City of San Jose
Brentwood Boulevard/Nancy Street	City of Brentwood/Caltrans	Coleman Ave/Main Entrance to Market Ctr	City of San Jose
Dublin Boulevard/Dougherty Road	City of Dublin	Coleman Avenue/Autumn Street	City of San Jose
Arnold Road/Central Parkway	City of Dublin	3rd Street/Jackson Street	City of San Jose
Central Parkway/Hibernia Drive	City of Dublin	4th Street/Jackson Street	City of San Jose
Hacienda Drive/Gleason Drive	City of Dublin	3rd Street/Julian Street	City of San Jose
Tassajara Road/The Avenue	City of Dublin	4th Street/Julian Street	City of San Jose
US 101 SB Off Ramp/University Avenue	City of East Palo Alto	Moorpark Avenue/Rt. 280 Ramps	City of San Jose/Caltrans
University Avenue/Woodland Avenue	City of East Palo Alto	Great Oak Blvd/Rt. 85 SB Off Ramps	City of San Jose/Caltrans
North Connector Project	City of Fairfield/Caltrans	Cottle Road/Rt. 85 NB Off Ramp	City of San Jose/Caltrans
Main Street/First Street	City of Los Altos	E 14th Street/138th Avenue	City of San Leandro
Sand Hill Road/Rt. 280 NB off Ramp	City of Menlo Park	Merced Street/Williams Street	City of San Leandro
Sand Hill Road/Rosewood Hotel Entrance	City of Menlo Park	Westgate Parkway/Williams Street	City of San Leandro
El Camino Real/Victoria Avenue	City of Millbrae/Caltrans	E 14th Street/138th Avenue	City of San Leandro/Caltrans
Main Street/Weller Lane	City of Milpitas	Hillsdale Blvd/US 101 Ramps	City of San Mateo/Caltrans
Main Street/Rt. 237 WB Off-Ramp	City of Milpitas	Hillsdale Blvd/El Camino Real	City of San Mateo/Caltrans
Main Street/Carlo Street	City of Milpitas	Mission College Blvd/Great America Pkwy	City of Santa Clara
Milpitas Blvd/Calaveras Blvd	City of Milpitas	Railroad Avenue North/Sunset Avenue	City of Suisun
Milpitas Boulevard/Calaveras Blvd	City of Milpitas/Caltrans	Railroad Avenue South/Sunset Avenue	City of Suisun
Milpitas Boulevard/Pecten Court	City of Milpitas/Santa Clara Co.	Sunnyvale Avenue/Old San Francisco Rd	City of Sunnyvale
Milpitas Blvd/Montague Expwy	City of Milpitas/Santa Clara Co.	Duane and Britton Avenues	City of Sunnyvale
Milpitas Blvd/Pecten Court	City of Milpitas/Santa Clara Co.	Mathilda Avenue/Washington Avenue	City of Sunnyvale
Milpitas Blvd/Montague Expressway	City of Milpitas/Santa Clara Co.	Mathilda Avenue/McKinley Avenue	City of Sunnyvale
Highway 24/Martin Luther King Jr. Way	City of Oakland	Mathilda Avenue/Iowa Avenue	City of Sunnyvale
Martin Luther King Jr. Way/52nd Street	City of Oakland	Sunnyvale/Washington Avenue	City of Sunnyvale
Martin Luther King Jr. Way/53rd Street	City of Oakland	Sunnyvale/McKinley Avenue	City of Sunnyvale
Martin Luther King Jr. Way/55th Street	City of Oakland	Sunnyvale/Iowa Avenue	City of Sunnyvale
Martin Luther King Jr. Way/59th Street	City of Oakland	Iowa Avenue/Taaffe Street	City of Sunnyvale
Carlson Boulevard/Broadway Avenue	City of Oakland	Washington Avenue/Taaffe Street	City of Sunnyvale
El Camino Real/Sand Hill Road	City of Palo Alto/Caltrans	Tracy Gateway Project	City of Tracy
El Camino Real/Quarry Road	City of Palo Alto/Caltrans	Lammers Road Traffic Signal Project	City of Tracy
I-680/Bernal Avenue	City of Pleasanton	Almaden Expressway/Koch Lane	County of Santa Clara
Sunol Boulevard/Sycamore Road	City of Pleasanton	Almaden Expressway/Ironwood	County of Santa Clara
Sunol Boulevard/Arlington Drive	City of Pleasanton	Lawrence Expressway/Metty Way	County of Santa Clara
Moorpark Avenue/Winchester Blvd	City of San Jose	Suisun Parkway/Rt. 80 EB Off Ramp	Solano County
Winchester Blvd /Stevens Creek Blvd	City of San Jose	Abernathy Road/Rt. 80 WB Off Ramp	Solano County
Winchester Boulevard/Olin Street	City of San Jose	Suisun Parkway/Abernathy Road	Solano County
Winchester Boulevard/Olsen Drive	City of San Jose	University Avenue/Main Street	Town of Los Gatos
Winchester Boulevard/Tisch Way	City of San Jose	Santa Cruz Avenue/Main Street	Town of Los Gatos
Stevens Creek Boulevard/Santana Row	City of San Jose		

ORGANIZATIONAL CHART

The organization chart displays the BKF Team organization and coordination between team members. Our assigned team has worked on multiple intersection improvement projects involving traffic signal modifications and improved pedestrian facilities. BKF has consistently demonstrated a clear understanding of project processing, including initial and final intersection design, including warrant studies, grading, ADA compliance, stage construction and traffic handling, right of way engineering and project approval and constructability. We are organized for a quick response to address your needs and pride ourselves on meeting demanding schedules by providing early identification and resolution of project design and process issues which will be required in order to ensure that the right of way acquisition can be mutually negotiated for the Laurel Road and Rose Avenue Intersection Improvement and Signalization Project. BKF's in-house experience and capabilities in traffic engineering, multimodal facilities, surveying, right of way engineering, utility design, and oversight and construction administration complement our strong roadway engineering expertise.

BKF commits to the City that the key personnel assigned to this Project will be available for the proposed duration of the Project, and no key personnel will be removed or replaced without the City's approval. The following staff assignments illustrate the Project roles, responsibilities, and commitment for the Project.





NATALINA BERNARDI, PE, LEED AP
PRINCIPAL IN CHARGE

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Natalina has over 30 years of technical and management experience in the transportation field. She has been extensively involved in the engineering design and enhancement of all components of roadway design. She has effectively managed design teams and worked closely

with public agencies, community organizations, utility companies, institutions, universities, and private owners to incorporate specific concerns and regulations into design. She will review all work products for conformance with the design criteria, and will actively participate in the scheduling of the work and insure the availability of the project team to complete the Project on schedule and within budget. Natalina's value is emphasized by the fact that several agencies have specifically selected her to facilitate and accelerate project deliveries.

RESPONSIBILITIES

- General Project Oversight
- General Project Management
- Ensure Resource Allocation
- Contract Administration
- Assistance with Meeting Goals and Requirements
- Right of Way Engineering Oversight



JEFF WANG, PE
PROJECT MANAGER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Jeff has 31 years of varied transportation experience. As an expert in geometric and traffic signal design, intersection analysis, signing and striping plans, construction traffic handling and detour design, and staged construction plan preparation, he understands what is necessary to deliver

the plans, specs and estimate and supporting documentation for an intersection project. Jeff's extensive knowledge of delivering public works projects over the past 3 decades includes civil, traffic, utilities, and right of way aspects of roadway improvement projects. He has experience working with all local jurisdictions and will work hand in hand with the City. He will take ownership of the Project and deliverables by personally managing all aspects of the work, including the staff and design.

RESPONSIBILITIES

- Specific Project Management & Oversight
- Project Team Coordination,
- Ensure Compliance with Requirements and Project Goals
- Responsible for Preparation of Contract Documents & Schedule
- Preparation of Work Plan
- Maintain Project Budget and Schedule



CARMELO CECILIO, PE
QUALITY ASSURANCE/QUALITY CONTROL ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Carmelo is an accomplished roadway designer which provides him with an innate understanding as to the requirements and quality required for project documents. His role in quality assurance takes priority at BKF and is not just the final checking of our deliverables.

He pursues a zero change order policy, which begins with the integration of specific project planning and review steps conducted throughout the design process. Carmelo will use this approach to uncover and identify potential conflicts and issues with the contract documents and design approach. In his capacity as the Quality Assurance/Quality Control for the BART Seismic Retrofit project, he used this same approach. His work for the BART project included the development of the Quality Control Procedures and Manual, and overseeing reviews and conducting audits of the subconsultant team consisting of 10 team members.

RESPONSIBILITIES

- Project Quality Assurance/Quality Control (QA/QC) Program
- Preparation of Quality Control Procedures
- Quality Control Training
- Project Submittal Reviews
- Subconsultant Product Reviews



JAGGI BHANDAL, PE
PROJECT ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Assisting Ms. Bernardi will be Mr. Bhandal who will serve as the Project Engineer and will provide the civil engineering design with the support of BKF staff. He will be involved in all aspects of the design to include alternative analysis, grading, drainage and geometric layout. For PS&E, he will be providing the detailed roadway design elements for plan incorporation and develop the complementary specifications and cost estimates. Mr. Bhandal's design experience is diverse and includes geometric alternative development, grading, drainage, storm water quality, utility design, stage construction and pedestrian & bicycle compliant facilities. He has processed several roadway projects incorporating safe multimodal facilities. Complementing his design skills are his communication skills which assists with the coordination with project team members.

RESPONSIBILITIES

- Roadway Design
- Geometric Design
- Grading Design
- Identification of Right of Way Needs
- Preparation of Design Layout and Plans, Specifications and Estimate for Roadway Improvements



RODOLFO ONCHI, PE
TRAFFIC ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Rodolfo has designed and constructed hundreds of new and modified traffic signals, and is a master at integrating innovative traffic handling solutions for construction in order to preserve ingress, egress, and through movements for businesses, residences, streets, bicycle traffic, and pedestrian traffic. His experience includes the analysis of intersections and design of traffic signals through thousands of miles of roadway in the SF Bay Area for both public and private sector clients. He has the reputation of providing innovative solutions and optimizing the design by meeting the Project operational requirements and minimizing costs.

RESPONSIBILITIES

- Traffic Signal Design (New and Mods)
- Striping & Plan
- Traffic Handling and Stage Construction
- Pedestrian, Bicycle, & Vehicular Detour
- Utility Service Request and Coordination through PG&E, AT&T, and Verizon
- Warrant Study



ED BOSCACCI, PE, QSP/D LEED AP
HYDRAULICS/STORM WATER QUALITY ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Mr. Boscacci will serve as the Hydraulics/Storm Water Quality Engineer and will be responsible for the hydraulic and storm water quality analysis and design which includes assessing existing conditions and developing proposed requirements. He will provide advisement on the hydraulics and storm water quality analysis required for the project in compliance with RWQCB standards. Mr. Boscacci is highly regarded by Caltrans & municipalities as an expert in his field as evident by his work with the Counties of Alameda and San Mateo in the development of their Best Management Practices and Point Discharge Program. This unmatched experience will provide the Project with the assurance that hydraulic and storm water quality requirements will not hinder design progress & approval.

RESPONSIBILITIES

- Hydraulic and storm water quality analysis
- Design which includes assessing existing conditions and developing proposed requirements



ANDREW MICHEL, PE
UTILITY COORDINATOR

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Andrew will serve as the Utility Coordinator for the Project. He will coordinate with the utility owners directly to ascertain required information concerning existing facilities, future improvements, and existing utility rights (i.e. franchise agreements or easements). He will

oversee and be responsible for utility identification, relocation requirements, design, schedule, and utility process.

His experience includes being the utility coordinator for the SVBX project in Santa Clara County which entails \$42 million of utility relocations. This project alone has reinforced Mr. Michel’s relationships with every utility owner in Santa Clara Valley. His 18 years of experience has included the construction management as well as street and utility design work.

RESPONSIBILITIES

- Utility Identification
- Potholing Coordination
- Coordination with Utility Owners
- Utility Design



DAVIS THRESH, PLS
SURVEY / RIGHT OF WAY MANAGER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Davis will serve as Survey/Right of Way Manager. He will oversee and manage the necessary topographic surveys required for the Project base sheet development. This will include performing the ROW engineering required for those parcels that may require acquisition.

Mr. Thresh has directly overseen the topographic surveys, construction staking survey, right of way engineering and mapping and preparation of plats and legal documents for many of the firm’s transportation projects.

RESPONSIBILITIES

- Survey and Project Control
- Topographic Survey (3D Laser Scan)
- ROW Boundary Resolution
- ROW Engineering
- Plat and Legals Preparation



GARY PARIKH, PE, GE
GEOTECHNICAL ENGINEER

PROFESSIONAL QUALIFICATIONS & EXPERIENCE

Mr. Parikh will serve as the Geotechnical Manager. He will be responsible for technical consultations, engineering supervision, maintaining technical standards, and communications. Under Gary’s supervision, Parikh Consultants staff will be responsible

for geotechnical and pavement recommendations for the Project. Gary Parikh has over 43 years of experience in managing, supervising, and conducting geotechnical investigations and materials engineering services for a wide spectrum of projects. Mr. Parikh is responsible for technical consultations, engineering supervision, and maintaining technical standards, as well as client and project communication activities.

RESPONSIBILITIES

- Managing, supervising, and conducting geotechnical investigations and materials engineering services





NATALINA BERNARDI, PE, LEED AP

PRINCIPAL-IN-CHARGE

Ms. Bernardi has over 30 years of technical and management experience in the transportation field. As a Principal-in-Charge, Ms. Bernardi has been extensively involved in the engineering design and enhancement of highways, rail, roadways, and bicycle/pedestrian improvements, and pedestrian facilities. Her work has included roadway reconstruction, bicycle and pedestrian access, signalized intersection and improvement plans. Ms. Bernardi has worked closely with public agencies, community organizations, utility companies, and institutions to incorporate specific concerns and regulations into design while monitoring the project budget and goals.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
University of California,
Berkeley, 1985

REGISTRATION

Professional Civil
Engineer,
CA No. 45407, 1990

AFFILIATIONS

LEED Accredited
Professional, USGBC

Women's Transportation
Seminar, WTS

YEARS WITH BKF

27 Years

TOTAL YEARS

EXPERIENCE

30 Years

Sunnyvale Ave/Old San Francisco Road Intersection Project, Sunnyvale, CA

- Principal-in-Charge
- New Signalized Intersection at Sunnyvale Avenue/Old San Francisco Road
- Conducted a Review of Traffic Signal Modification, Median Reconstruction and Street Planting & Irrigation Design
- Reviewed Pedestrian Accessibility Improvements
- Oversaw Design to Preserve and Restore Private Property
- Provided Design Oversight for Vehicle, Pedestrian and Bicycle Safety
- Worked with Property Owners to Avoid Right of Way Acquisition and Minimize Construction Impacts
- Processed Caltrans Funding (E-76) Assistance
- Supervised Plans, Specifications, and Estimate
- Provided Construction Assistance

Duane and Britton Avenues Improvement Project, Sunnyvale, CA

- Principal-in-Charge
- New Signalized Traffic Signal
- Roadway Improvements for ADA Compliance
- Worked with Community and Adjacent School
- Reviewed Construction Staging and Permitted Hours
- Coordinated with Other Projects Conducting Work During Same Period
- Provided Construction Assistance

Hwy 9/University Ave Intersection Improvements, Los Gatos, CA

- Principal-in-Charge
- Intersection Widening
- Implemented Pedestrian and Bicycle Improvements
- Reviewed Grading & Drainage Design
- Supervised Traffic Signal Modification
- Assisted with Right of Way Acquisitions for Traffic Signal Equipment Installation
- Led Caltrans Encroachment Permit and Approval

Los Altos Downtown Street Improvement Project, Los Altos, CA

- Principal-in-Charge
- Historic Downtown Revitalization
- Curb, Gutter, and Planter Bulb-Out Improvements
- Reviewed Rule 20A Utility Undergrounding
- Aesthetic Details to Sidewalks
- Supervised Decorative Street Lighting & Traffic Signal Design
- Public Outreach with Project Stakeholders



Sunnyvale Ave/Old San Francisco Road

NATALINA BERNARDI, PE, LEED AP

PRINCIPAL-IN-CHARGE

Midtown North Main Street Improvement Project, Milpitas, CA

- Principal-in-Charge
- Street Beautification and Reconstruction
- Pedestrian Oriented Facility/Traffic Calming
- Three New Signalized Intersections
- Elaborate Landscaping and Streetscape
- Utility Reconstruction and Undergrounding
- Preservation of Historic Building
- MTC and Caltrans Approval for Federal Regulation Compliance

Santa Cruz Avenue and East Main Downtown Street Improvements, Los Gatos, CA

- Principal-in-Charge
- Revitalization of Downtown Los Gatos
- Pavement Reconstruction and Re-profiling
- Bicycle and Pedestrian Safety Improvements
- Sidewalk Enhancements and Bulb-out Design
- Modifications for ADA Compliance
- Signalized Intersection Modifications
- Utility Adjustments, Modifications, and Coordination
- Accelerated Design and Construction Schedule
- Detailed Vehicular and Pedestrian Construction Staging and Traffic Handling Plans

Highway 9 Safety Improvements, Los Gatos, Monte Sereno, and Saratoga, CA

- Principal-in-Charge
- Pedestrian and Bicycle Safety Improvements
- ADA Compliant Pedestrian Facilities
- Class II and III Bicycle Improvements
- AASHTO Design Policy for Bicycles
- Traffic Signal Modifications
- Facilitated Caltrans Encroachment Permit & E-76 Processing
- Tri-City Design, Coordination and Oversight
- Combined Bicycle and Pedestrian Masterplan
- Participated in Public Presentations
- Won Stakeholder Consensus

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Principal-in-Charge
- Intersection Capacity Enhancement/Roadway Widening
- Reviewed Alternative Geometric Analysis/Traffic Signal Modification
- Facilitated Utility Undergrounding/Rule 20A Coordination
- Coordinated Right of way Acquisition and Engineering/Landscape Enhancement
- Environmental Document Assistance/Multimodal Facilities

Westgate Parkway Extension Project, San Leandro, CA

- Principal-in-Charge
- Local Street Widening and Reconstruction
- Analyzed Phased Construction Design
- Reviewed Utility Undergrounding and Drainage
- Analysis and Design
- Intersection Signal Design
- Evaluated Pedestrian/Bicycle Circulation
- Oversaw Specifications in Greenbook Format
- Assisted in Noise Study Report
- Confirmed Staging for Continuous Access for Adjacent Businesses
- Coordinated with City, Utility Owners, and Stakeholders
- Supervised Plans, Specifications, and Estimate
- Provided Construction Support

Highway 1/9 Intersection Improvements, Santa Cruz, CA

- Principal-in-Charge
- Capacity Enhancing and Safety Improvement Project
- Roadway Reconstruction/ Federally Funded Project
- Reviewed Geometric Alternative Analysis/Pedestrian & Bicycle Improvements
- Confirmed Multi-phased Stage Construction
- Oversaw Traffic Analysis and Signal Modifications
- Processed Caltrans Project Report & Environmental Clearance
- Supervised Caltrans PS&E



Dublin Boulevard/Dougherty Road Intersection Improvements



JEFF WANG, PE

PROJECT MANAGER

Mr. Wang has over 31 years of experience in the field of transportation engineering. He specializes in developing public infrastructure projects including roadways, signalized intersections, bicycle pathways, streetscape, and utility systems delivering more than \$100 million in construction valuation over the last 5 years. Engaged throughout the life of the project, his experience ranges from conceptual design to detailed engineering culminating in final construction. Mr. Wang coordinates the design effort of the team, public agencies, community organizations, and private parties resulting in consensus based solutions that are cost effective and delivered on schedule.

RELEVANT EXPERIENCE

EDUCATION

MS, Civil Engineering,
San Jose State University,
1991

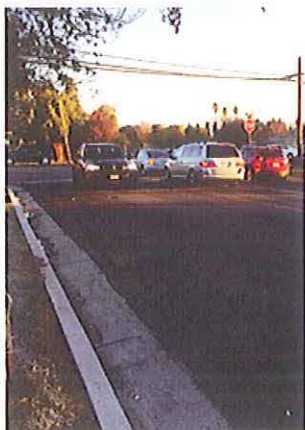
BS, Highway & Traffic
Engineering, Tonji
University, Shanghai,
China, 1982

REGISTRATION

Professional Civil
Engineer,
CA No. 57006, 1997

YEARS WITH BKF
25 Years

TOTAL YEARS
EXPERIENCE
31 Years



Duane & Britton Avenues Improvements

Duane and Britton Avenues Improvement Project, Sunnyvale, CA

- Project Manager
- New Signalized Intersection
- Roadway Improvements for ADA Compliance
- Coordinated with Community and Adjacent School to Obtain Consensus
- Oversaw Development of Staging and Traffic Handling Plans
- Coordinated with Utility Owners to Positively Locate Facilities
- Provided Construction Assistance

Sunnyvale Ave/Old San Francisco Road Intersection Project, Sunnyvale, CA

- Project Manager
- Intersection Modifications
- Oversaw Design of Traffic Signal Modification and New Traffic Signal
- Analyzed Pedestrian/Bicycle Circulation
- Coordinated with Caltrans on Lane Modifications to Improve LOS
- Oversaw Signing and Striping Plans
- Worked VTA on Transit Route Modifications with New Signalized Intersection

Lammers Road and Schulte Road Intersection Improvements, Tracy, CA

- Project Manager
- Prepared Traffic Memo for Intersection LOS and Storage Length Calculation
- Analyzed Intersection Layout And Truck Turning
- Designed Traffic Signal and Intersection Safety Lighting
- Oversaw Roadway Signing and Striping Design Plans
- Multi-Jurisdictional Permit Process

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Traffic Manager
- Supervised Widening of Local Streets/Intersection Modifications
- Prepared Intersection Vehicle Turning Analysis/Signal Design
- Reviewed Geometric Design and Analysis/ROW Assessment
- Pavement Delineation and Signing Design
- Coordinated Needs & Input of Multi-Jurisdictions

Hwy 9/University Ave Intersection Improvements, Los Gatos, CA

- Project Manager
- Oversaw Intersection Widening
- Supervised Pedestrian and Bicycle Improvements
- Grading and Drainage Design
- Reviewed Traffic Signal Modification
- Coordinated Right of Way Acquisition for Traffic Signal Equipment
- Caltrans Encroachment Permit Approval

JEFF WANG, PE

PROJECT MANAGER

Sand Hill Road Corridor Projects, Palo Alto and Menlo Park, CA

- Traffic Manager
- City and Caltrans Traffic Signal Modifications
- Roadway Widening and New Construction
- 15 Intersections Layout and Signal Installation or Modifications
- Design of Added Street Connections to Existing Intersections
- Oversaw Intersection Turning Maneuver Analysis
- Incorporation of Pedestrian and Bicycle Facilities
- Developed Pavement Delineation and Signing Plan
- Reviewed Stage Construction and Detour Plans
- Prepared Level of Service Calculations
- Caltrans Encroachment Permit
- 2 Miles Street Widening Realignment

Los Altos Downtown Street Improvement Project

- Los Altos, CA
- Traffic Manager
- Historic Downtown Revitalization
- Curb, Gutter, and Planter Bulb-Out Improvements
- Rule 20A Utility Undergrounding
- Aesthetic Details to Sidewalks
- Reviewed Traffic Signal Design
- Public Outreach to Project Stakeholders

Santa Cruz Avenue/East Main Street Downtown Street Improvements, Los Gatos, CA

- Traffic Manager
- Developed Intersection and Traffic Signal Modifications
- Concrete Pavement Reconstruction
- Reviewed Signalized Intersection Modifications
- Traffic Operation Improvements
- Traffic Calming Curb Bulb-Outs
- Mid-Block Pedestrian Crossing
- Decorative Luminaries/Aesthetic Upgrades
- Detailed Stage Construction

Midtown North Main Street Improvement Project

- Milpitas, CA
- Traffic Manager
- Street Beautification and Reconstruction
- Developed Geometric Alternatives
- Reviewed Three New Signalized Intersections
- Bulb-outs Constructed at Intersections
- Sidewalks Widening and Realignment
- Reviewed Pedestrian Safety/ADA Compliance
- Developed Staged Construction/Phasing Design
- MTC and Caltrans Approval for Federal Regulation Compliance

North Connector Project, Solano County, CA

- Traffic Manager
- 2 Miles of New Roadway Construction
- Developed Geometric Alignment Analysis
- Prepared Pavement Delineation and Signing
- Oversaw Traffic Signal Design & Stage Construction Plans

Alameda Landing, Alameda, CA

- Traffic Manager
- Prepared Intersection Modifications
- Analyzed Signal Design Modifications
- Reviewed Traffic Signal Interconnect System
- Installation of Emergency Vehicle Preemption System
- Prepared Street Lighting Photometric Calculation
- Prepared Signing and Striping including High Visibility Crosswalks

Cahill Street Widening and Autumn Street Connection/Realignments, San Jose, CA

- Traffic Manager
- Roadway Widening and Reconstruction
- Analyzed Geometric Alignment Alternatives
- Developed Signalized Intersection Modifications
- Prepared Pedestrian/Bicycle Circulation
- Pavement Delineation
- Detailed Stage Construction Plans



Midtown North Main Street Improvement Project



CARMELO CECILIO, PE

QUALITY ASSURANCE/QUALITY CONTROL MANAGER

Mr. Cecilio has over 26 years of civil engineering experience. He has experience specializing in all aspects of various municipal improvement projects including roadway, utility improvement, highway and light rail geometric design and calculations, retaining wall design, drainage analysis, signing and striping, stage construction and traffic detours. He will serve as the Quality Assurance / Quality Control Coordinator reviewing plans for concept and constructability during the beginning phases of the design and will review the products conformance to City standards and guidelines through the duration of the project.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
1988
Santa Clara University, CA

REGISTRATION

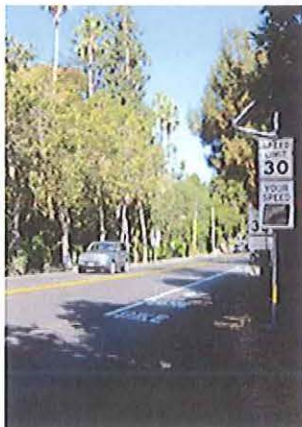
Professional Civil
Engineer,
CA No. 53143

YEARS WITH BKF

16 Years

TOTAL YEARS

EXPERIENCE
26 Years



Highway 9 Safety Improvements

BART Seismic Retrofit Project, Oakland/Berkeley/Albany/El Cerrito/Richmond, CA

- Quality Assurance/Quality Control Engineer
- Oversaw Quality Control Program for R Line Retrofit
- Conducted Subconsultant Audits to Confirm Compliance
- Seismic Retrofit of R Line Segment (10.6 Miles)
- 3 Vehicular/Pedestrian Undercrossing Locations
- Roadway & Drainage Improvements
- Extensive Utility Relocation and Design
- Traffic Handling/Stage Construction
- Pedestrian/Bicycle Pathway Design
- 6 Signalized Intersections/Lighting Design

Highway 9 Safety Improvements, Los Gatos, Monte Sereno, and Saratoga, CA

- Project Engineer
- Roadway Widening and Reconstruction
- Designed ADA Compliant Pedestrian and Class II and III Bicycle Facilities
- Assisted in ROW Requirement Determination
- Conducted Utility Master Planning and Design
- Determined Multi-Phased Stage Construction Design for Funding Constraints
- Reviewed Street Lighting/Pedestrian Warning Systems
- Assisted in Public Outreach Presentations/Community Meetings
- Provided Design Oversight of Plans, Specifications, and Estimate

Westgate Parkway Extension Project, San Leandro, CA

- Quality Assurance/Quality Control Engineer
- Local Street Widening and New Construction
- Phased Construction Design
- Utility Master Planning/ Drainage Analysis & Design
- Checked Compliance of Pedestrian/Bicycle Circulation
- Reviewed In-Pavement Lighting at Crosswalk
- Reviewed Staging for Continuous Access to Shopping and Residential Site

Los Altos Downtown Street Improvement Project, Los Altos, CA

- Quality Assurance/Quality Control Engineer
- Reviewed PS&E for Historic Downtown Revitalization
- Reviewed Utility Re-arrangement Plans Provided by Utility Owners
- Back-checked Subconsultant Work for Conformity and Consistency
- Curb, Gutter, and Planter Bulb-out Improvements
- Street Narrowing and Re-profiling/Rule 20A Utility Undergrounding
- Extensive Stage Construction to Maintain Business and Pedestrian Access
- Landscaping & Aesthetic Details/Decorative Street Lighting & Traffic Signal

CARMELO CECILIO, PE

QUALITY ASSURANCE/QUALITY CONTROL MANAGER

Santa Cruz Avenue/East Main Street Downtown Street Improvements, Los Gatos, CA

- Quality Assurance/Quality Control Engineer
- Pavement Reconstruction and Re-profiling
- Bicycle and Pedestrian Safety Improvements
- Sidewalk Enhancements and Bulb-out Design
- Assured Modifications Maintained ADA Compliance
- Reviewed Signalized Intersection Modifications
- Reviewed Utility Adjustments and Modifications
- Accelerated Design and Construction Schedule
- Detailed Vehicular and Pedestrian Construction Staging and Traffic Handling Plans

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Quality Assurance/Quality Control Engineer
- Intersection Capacity Enhancement/ Roadway Widening
- Reviewed Alternative Geometric Analysis
- Reviewed Traffic Signal Modification
- Utility Undergrounding/Rule 20A Coordination
- ROW Acquisition and Engineering/Landscape Enhancement
- Environmental Document Assistance/Multimodal Facilities
- Coordinated Needs & Input of Multi-Jurisdictions

Blossom Hill Station Pedestrian Overcrossing, San Jose, CA

- Quality Assurance/Quality Control Engineer
- Design and Construction Management for POC Spanning UPRR/Caltrain and Blossom Hill Station
- Worked with Contractor to Ensure Compliance with Contract Documents
- Developed Construction Documents with Specifications Compliant with UPRR/Caltrain Standards
- Coordinated with PG&E, AT&T and Comcast in Development of Utility Protection and Relocations

Midtown North Main Street Improvement Project, Milpitas, CA

- Quality Assurance/Quality Control Engineer
- Street Beautification and Reconstruction
- Assured Preservation of Historic Building
- Reviewed Landscaping and Streetscape Design with Conformance to Civil Plans
- Verified Pedestrian Facilities & Traffic Calming Features
- Reviewed Grading, Drainage, Utility Reconstruction, and Traffic Control Design
- Verified Accuracy of Quantities with Plans & Specifications
- Supervised Plans, Specifications, and Estimate

North Connector Project, Solano County, CA

- Quality Assurance/Quality Control Engineer
- 2 Miles of New Road
- Reviewed Geometric Analysis/Utility Relocation
- Reviewed Drainage & Grading Design
- Mapping and ROW Acquisitions/ Community Outreach
- Environmental Document Assistance & Implementation
- Coordination with Multiple Jurisdictions

Facebook EIR Mitigation Improvements, Palo Alto and Menlo Park, CA

- Quality Assurance/Quality Control Engineer
- Expressway Widening and Reconstruction
- Intersection Modifications/Multimodal Facilities
- Bicycle Lanes and Paths/Pedestrian Paths and Trails
- Modified Curb Ramps for ADA Compliance
- Grading, Storm Drain Design, & Water Quality Implementation
- Utility Design and Relocation
- Coordination with Cities, Railroad, and Utility Companies
- Plans, Specifications, and Estimate



Santa Cruz Avenue/East Main Street Downtown Street Improvements



JAGGI BHANDAL, PE, LEED AP

PROJECT ENGINEER

As a Project Engineer, Mr. Bhandal's responsibilities encompass roadway design engineering including heavy rail, grade separation, and streetscape design projects. His experience entails all general aspects of roadway projects including geometrics, drainage, utilities, grading, construction staging, and traffic handling. Mr. Bhandal has performed project design for various municipal, roadway and highway projects and is well versed in multi-modal design which infuses bicycle, pedestrian, mass transit, and vehicular traffic.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
University of California,
Davis, 2007

REGISTRATION

Professional Civil
Engineer, CA No. 77430,
2011

AFFILIATIONS

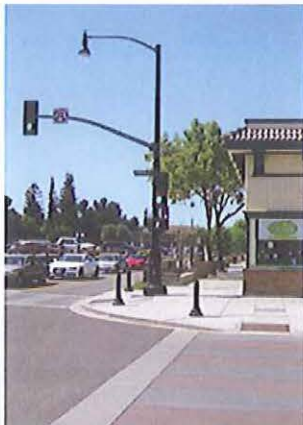
LEED Accredited
Professional – USGBC

YEARS WITH BKF

9 years

TOTAL YEARS EXPERIENCE

9 years



Los Altos Downtown Street Improvements

North Connector Project, Solano County, CA

- Project Engineer
- 2 Miles of New Road and Intersection Modification
- Prepared Caltrans Encroachment Permit
- Developed Geometric Alternatives with Multi-Modal Facilities and Upgraded urb Ramp for ADA Compliance
- Prepared Drainage, Grading, and Utility Design
- Determined ROW Acquisitions and Requirements
- Assisted with Preparation of Environmental Document
- Facilitated the Coordination with Multiple Jurisdictions
- Assembled Plans, Specifications, and Estimate

Sunnyvale Avenue/Old San Francisco Road Project, Sunnyvale, CA

- Project Engineer
- New Signalized Intersection at Sunnyvale Avenue/Old San Francisco Road
- Developed Geometrics with Multi-Modal Facilities
- Prepared Median Reconstruction Details and Reviewed Street Planting & Irrigation
- Designed Pedestrian Accessibility Improvements
- Restored Design Elements on Private Property
- Processed Caltrans Funding (E-76)
- Prepared & Assembled Plans, Specifications, & Estimate
- Coordination with Multiple Jurisdictions

Highway 9 Safety Improvements, Los Gatos, Monte Sereno, and Saratoga, CA

- Project Engineer
- Pedestrian and Bicycle Safety Improvements
- Class II and III Bicycle Improvements
- ADA Compliant Pedestrian Facilities
- Combined Bicycle and Pedestrian Masterplan
- Drainage & Grading Improvements
- Utility Adjustment & Coordination
- In Pavement Lighting Design
- Tri-City Design, Coordination and Oversight
- Design Exceptions Processed for Caltrans Approval
- Caltrans Encroachment Permit

Highway 1/9 Intersection Improvements, Santa Cruz, CA

- Project Engineer
- Capacity Enhancing and Safety Improvement Project
- Prepared Geometric Alt Analysis/Drainage Design
- Designed Pedestrian/Bicycle Improvements
- Developed Multi-phased Stage Construction
- Prepared Grading, Drainage, and Utility Plans
- Reviewed Traffic Analysis and Signal Modifications



RODOLFO ONCHI, PE
TRANSPORTATION ENGINEER

As a Transportation Engineer, Mr. Onchi has over 14 years of experience in project design and development of major roadway and highway design projects. He is an expert at geometric design, traffic signal design, ramp metering, signing plans, construction detour design, pavement delineation, and staged construction plan preparation. Mr. Onchi’s experience includes both public and private sector clients. He has the reputation of optimizing the design by meeting the project operational requirements and minimizing costs.

RELEVANT EXPERIENCE

EDUCATION
BS, Civil Engineering, San Jose State University

REGISTRATION
Professional Civil Engineer, CA No. 72157

YEARS WITH BKF
13 Years

TOTAL YEARS EXPERIENCE
14 Years

Highway 9/University Avenue Intersection Improvements, Los Gatos, CA

- Traffic Engineer
- Intersection Widening
- Pedestrian and Bicycle Improvements
- Traffic Signal Modification
- Staging and Traffic Handling Plan and Specification Development
- Caltrans Encroachment Permit Approval

3rd/4th Street Couplet Conversion, San Jose, CA

- Traffic Engineer
- Street Conversion for Two-Way Traffic
- Traffic Calming Features and ADA Compliance Upgrades
- Enhanced Walkways and Pedestrian Facilities
- Signing and Striping Plans
- Traffic Signal Modifications

Sunnyvale Avenue/Old San Francisco Road Improvements, Sunnyvale, CA

- Traffic Engineer
- Intersection Modifications
- Traffic Signal Modification at El Camino/Sunnyvale Avenue
- New Traffic Signal Installation
- Pedestrian/Bicycle Circulation
- Signing and Striping Plans and Specifications
- Warrant Study Analysis for Signal Justification

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Traffic Engineer
- Widening of Local Streets, Traffic Signal Modification
- Vehicle Turning Analysis and Lane Configuration Modifications
- Right of Way Acquisition Identification
- Pavement Delineation Design
- Traffic Signal Modification Design

Midtown North Main Street Improvement Project, Milpitas, CA

- Traffic Engineer
- Geometric Alternatives
- Bulb-outs Constructed at Intersections
- Pedestrian Safety/ADA Compliance
- Signing and Striping Plans
- Staged Construction/Phasing Design
- Three New Signalized Intersections



Highway 9/University Avenue Intersection



ANDREW MICHEL, PE

UTILITY COORDINATOR

As a Utility Coordinator, Mr. Michel's responsibilities encompass utility design and coordination. His experience entails private on-site, as well as off-site aspects of civil and utility design and construction, including grading, utility coordination, utility relocation, construction survey staking coordination and construction administration. With over 18 years of experience, Mr. Michel has performed project design through the preliminary stages of project planning to the final phases of construction for various municipal, roadway and private site development projects.

RELEVANT EXPERIENCE

EDUCATION

BS, Civil Engineering,
San Jose State University,
1997

REGISTRATION

Professional Civil
Engineer,
CA No. 69078, 2012

YEARS WITH BKF

18 Years

TOTAL YEARS

EXPERIENCE
18 Years

Sand Hill Road Corridor Projects, Palo Alto, CA

- Utility Coordinator & Construction Manager of the Sand Hill Road Corridor Projects
- Provided Civil Engineering Design associated with Roadway Improvements, Utility Investigations and Relocation Design
- 1,000 l.f. of 8" High Pressure Gas Line Relocation
- Undergrounding of 1,000 l.f. of 60 Kv Electrical Lines
- Alignment and Concrete Capping over 12-Duct Vitrified Clay Duct bank for Telecommunication and Fiber Optic Lines
- Headed 3rd Party Utility Relocation Coordination with PG&E, California Water Co. & West Bay Sanitary District
- Offered Utility Recommendations, including Standard Clearances and Maintenance Requirements
- Completed Utility Design and Cost-Impact Comparisons for Value-Engineering Analyses and During Construction
- Coordinated Survey Staking Requests and Mapping

Silicon Valley Rapid Transit (SVRT) BART Extension to San Jose, Alameda & Santa Clara Counties, CA

- 9 Roadway Crossings w/ 2 Roadway Depressions
- 7 BART Stations
- 17 Traffic Signal Design/Railroad Crossing Design
- Multiple Roadway Reconstruction & Realignment
- Identified Utility Conflicts and Developed Preliminary Relocation Plans
- Developed Project Potholing Contract, Plans & Specs
- Coordinated Third Party Utility Owner Final Designs Documents for over 40 Relocations
- Utility Design Coordinator for VTA for Design-Build Contract Oversight & Coordination
- Coordinated with over 10 Third Party Utility Owners for \$42 Million in Utilities

Vasona C326, C345 and C356 – Light Rail Construction/Diridon Station to Winchester Station, San Jose and Campbell, CA

- Coordinated Utility Identification, Relocation, & Design for PCJPB Diridon Track Yard
- Provided Civil, Utility & Drainage Design Services for Reconstruction Work Following Installation of the 1,100' Long LRT Tunnel & Pedestrian Tunnel Segment
- Led Coalition of Consultants, Jurisdictions, & 3rd Party/ Utility Owner Stake Holders During Design Development to Insure Integrity of Existing Utility Facilities & Systems Were Identified, Preserved, Relocated, & Re-Established Following Construction Process
- Utility Design Services for 13 At-Grade Crossings



Sand Hill Road Corridor Projects



ED BOSCACCI, PE, QSP/D, LEED AP
HYDRAULICS/STORM WATER QUALITY ENGINEER

Mr. Boscacci is responsible for the hydrology/hydraulic calculations, studies and reports for the firm. He has been a team member on several complicated public works projects throughout the San Francisco Bay Area. Mr. Boscacci has prepared many drainage, flood plain analysis, storm water quality, and hydro modification reports. His proficiency and innovative solutions in urbanized areas has resulted in cost efficient designs. He has designed the drainage master planning and implementation for projects throughout Northern California. His experience also includes design of storm, water and sanitary sewer systems to include pump/lift stations.

RELEVANT EXPERIENCE

EDUCATION

MS, Civil Engineering
(Sanitary), University of
California, Berkeley, 1980
BS, Civil Engineering,
University of California,
Berkeley, 1979

REGISTRATION

Professional Civil
Engineer,
CA No. 34369, 1982

AFFILIATIONS

LEED Accredited
Professional, USGBC

YEARS WITH BKF

18 Years

TOTAL YEARS

EXPERIENCE

18 Years



Dublin/Dougherty Intersection

Dublin Boulevard/Dougherty Road Intersection Improvements, Dublin, CA

- Hydraulics/Storm Water Quality Engineer
- Intersection Capacity Enhancement/Roadway Widening
- Storm Water Treatment Measures
- Culvert Lengthened to Allow Roadway Widening
- Coordination with Storm Drain Master Plan
- Environmental Document Assistance
- Caltrans PS&E

Sand Hill Road Corridor Projects, Stanford, CA

- Hydraulics/Storm Water Quality Engineer
- On-Call of Roadway Widening and New Construction
- Assisted With Permitting of San Francisquito Creek Bridge Widening
- Permit Processing Through County of San Mateo, Santa Clara Valley Water District, Corps of Engineers, California Department of Fish and Game and Regional Water Quality Control Board
- Drainage Analysis / Utility Mapping and Relocation

Eastbound Montague Expressway Widening, Milpitas, CA

- Hydraulics/Storm Water Quality Engineer
- Drainage Report and Recommendations
- Extended the Existing Culvert at Berryessa Creek to Accommodate an Additional Lane of Traffic
- Prepared HEC-RAS Analyses for Santa Clara Valley Water District Review Demonstrating the Impact of the Proposed Project
- Santa Clara Valley Water District permitting
- Caltrans Coordination

Alameda County Clean Water Program, Alameda County, CA

- Hydraulics/Storm Water Quality Engineer
- Assisted with Preparation of C.3 Design Guideline Manual
- Prepared Fact Sheets for Stormwater Treatment Measures
- Developed Soil Specifications for Various Treatment Soils
- Prepared Examples of Treatment Solutions

Shady Lane Drainage Analysis, Hillsborough, CA

- Hydraulics/Storm Water Quality Engineer
- Shady Lane Drainage Area have Experienced Flooding in the Past due to Existing Stormdrain System Capacity Deficiencies
- Prepare the Hydrology to Determine Peak Flows for Evaluating the Existing System and to Recommend Corrective Actions
- Conduct a Preliminary Field Survey to Collect Key Information
- Prepare Hydraulic Analysis
- Evaluate Alternatives



DAVIS THRESH, PLS

SURVEY/RIGHT OF WAY MANAGER

Mr. Thresh will serve as the Survey/Right of Way Manager. His survey experience spans over 32 years. Throughout his tenure with BKF, he has played a key role in many projects, for both the public and private sectors. His responsibility involves project management of all survey projects including scheduling, budget tracking, dispatching, supervision of crews, and coordination of the office and field surveyors. Mr. Thresh has directly overseen the topographic surveys, construction staking survey and right of way acquisition and mapping for many of the firm's roadway projects.

RELEVANT EXPERIENCE

EDUCATION

Surveying, Diablo Valley College, Pleasanton Hill, CA

REGISTRATION

Professional Land Surveyor, CA No. 6868, 1992

YEARS WITH BKF

25 Years

TOTAL YEARS

EXPERIENCE
32 Years

Highway 1/9 Intersection Improvements, Santa Cruz, CA

- Survey/Right of Way Manager
- Intersection and Highway Improvements
- Boundary Resolution
- Access Control Delineation
- Topographic Surveys and Mapping
- Right of Way Verification

North Connector Project, Solano County, CA

- Survey/Right of Way Manager
- 2 Miles of New Road
- Right of Way Mapping and Acquisition
- Plat and Legal Preparation
- Project Control
- GPS Surveying
- Topographic Surveying

Sand Hill Road Corridor Projects, Palo Alto, CA

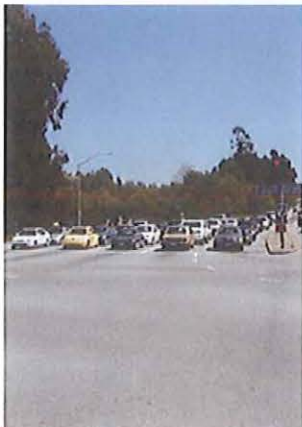
- Survey/Right of Way Manager
- Roadway Widening, Shopping Center Expansion and Multi-Unit Development
- ROW Acquisition & Mapping/Easement Preparation
- GPS Surveying
- Topographic Surveying and Aerial Photo Mapping
- Record of Survey
- Construction Staking

Dublin Boulevard/Dougherty Road Intersection Improvement, Dublin, CA

- Survey/Right of Way Manager
- Intersection Improvements & Roadway Widening
- Right of Way Mapping and Acquisition
- Plat and Legal Preparation
- Project Control/ GPS Surveying
- Topographic Surveying
- Record of Survey

Oakland Road Widening, San Jose, CA

- Survey/Right of Way Manager
- Local Street Widening
- GPS Surveying
- Photo Flight Control
- Right of Way Research and Documentation
- GPS Surveying
- Utility Potholing
- Topographic Surveying



Highway 1/9 Intersection Improvements

GARY PARIKH, PE, GE

GEOTECHNICAL ENGINEER



Gary Parikh has over 44 years of experience in managing, supervising, and conducting geotechnical investigations and materials engineering services on a broad spectrum of projects. Gary is responsible for technical consultations, engineering supervision, maintaining technical standards, and communications. Past projects include:

Moraga Way Pavement Rehabilitation, Orinda, Contra Costa County, CA

Provided pavement rehabilitation on Moraga Way between Camino Encinas south and the Bryant Way on-ramp to State Route 24. In addition, pedestrian improvements were made on Moraga Way between Camino Pablo and Bryant Way in the downtown area. Pedestrian improvements provided improved crosswalks that included curb bulb-outs at the intersection of Moraga Way and Brookwood Road and curb bulb-outs at the intersection of Moraga Way and Southwood Drive. Provided pavement subgrade testing and pavement design included evaluation of existing overlay and reconstruction options considering the existing soil condition and surrounding grades. Work was completed on schedule and within budget.

Route 4 East Project, Baily Avenue, Contra Costa County, CA

PARIKH provided Geotechnical engineering services for the Route 4 East widening project from Bailey Avenue to Loveridge Road. Project included bridge structures at Railroad Avenue, Harbor Boulevard and Kirker Creek. Also included pump station near park-n-ride facility. Roadway widening included pavement overlay for the existing section, new pavement section, slope cuts, retaining walls and sound walls, in accordance with Caltrans standards. Prepared separate foundation reports for bridge structures, specialty retaining systems and separate Materials Report and Geotechnical Design Reports for Roadway cuts and pavement sections. Prepared Log of Test Borings in AUTOCAD/Microstation file. Foundation design recommendations included cast-in-drilled-hole piles, concrete piles. Provided full construction support to the Construction Manager (Parsons). Work during construction phase included responding to RFIs, providing alternate design solutions due to site conditions, limitations, schedule requirements and to help save budgets.

Route 4 East Project, Loveridge Road to Route 160, Contra Costa County, CA

PARIKH provided Preliminary Geotechnical Report and Phase I ISA for the Route 4 East project from Loveridge Road to Route 160 in Eastern Contra Costa County. Reports were prepared for the MIS, PSR and PR phase and updated during the Environmental Document phase of the project. During the PS&E phase, PARIKH prepared a Geotechnical Design and Materials Report for the walls and roadway widening and bridge foundation reports for seven structures. Project consisted of over 10 miles of highway widening, several interchanges, soundwalls, retaining walls, culverts and slope cuts. In addition, provided recommendations for the eBART structures in the median of the corridor as part of the CCTA project. Work complied with Caltrans and BART design criteria. Project has so far been within budget and on schedule.

Route 680 Corridor Study, Bollinger Canyon Road to Mr. Diablo, Contra Costa County, CA

This project provided auxiliary lanes in the I-680 corridor from the Bollinger Canyon Road Interchange in San Ramon to the Diablo Road Interchange in Danville. Improvements include an additional 12-foot auxiliary lane and a widened 12-foot shoulder between interchanges in the northbound and southbound directions, retaining walls, new soundwalls, widening of the Laurel Drive undercrossing structure between Sycamore Valley Road and Diablo Road, and landscaping. PARIKH Provided PSR/PR level study for the proposed widening project, and auxiliary lane project for CCTA. Work elements included, Preliminary Geotechnical Report and Phase I Environmental Site Assessment. During PS & E phase, prepared Geotechnical Reports for Bridge structure, sound walls, retaining walls, and new roadway section. Also provided consultation to Resident Engineer during construction.

EXPERTISE

Geotechnical,
Environmental,
Construction
Materials
Engineering

EDUCATION

B.S., Civil
Engineering,
M.S. University,
India, 1970

M.S., Geotechnical
Engineering,
U.C. Berkeley, 1971

REGISTRATION

Civil Engineer, CA
C-24227, 1973

Geotechnical
Engineer,
CA G.E. 666, 1987

BKF Engineers has a long and successful record of delivering intersection projects involving pedestrian improvements, traffic signal modifications, stage construction and right of way engineering. Below is a selected few recent projects that are similar to the City of Oakley projects that demonstrate BKF's experience and knowledge. We are proud of these projects and the relationships we forged with our clients. Please use each project contact as a reference; we urge you to contact our clients to substantiate our efforts and commitment.

DUANE AND BRITTON AVENUES IMPROVEMENT PROJECT Sunnyvale, CA

Ms. Liliana Price, (408)-730-7543, lprice@sunnyvale.ca.gov

City of Sunnyvale

456 West Olive Avenue
Sunnyvale, CA 94086

Dates of Service: 2013 – Current



SUNNYVALE AVENUE/OLD SAN FRANCISCO ROAD INTERSECTION Sunnyvale, CA

Ms. Jennifer Ng, (408) 730-7430, jng@ci.sunnyvale.ca.us

City of Sunnyvale

456 West Olive Avenue
Sunnyvale, CA 94086

Dates of Service: 2011 – 2014



HIGHWAY 9/UNIVERSITY AVENUE INTERSECTION PROJECT Los Gatos, CA

Mr. Jessie P, (408) 395-2859, jpu@losgatosca.gov

Town of Los Gatos

110 East Main Street
Los Gatos, CA 95030

Dates of Service: 2010 – 2014



LOS ALTOS DOWNTOWN STREET IMPROVEMENTS Los Altos, CA

Mr. Dave Brees, (650) 947-2888, dbrees@losaltosca.gov





City of Los Altos

1 North San Antonio Road
Los Altos, CA 94022

Dates of Service: 2011-2014

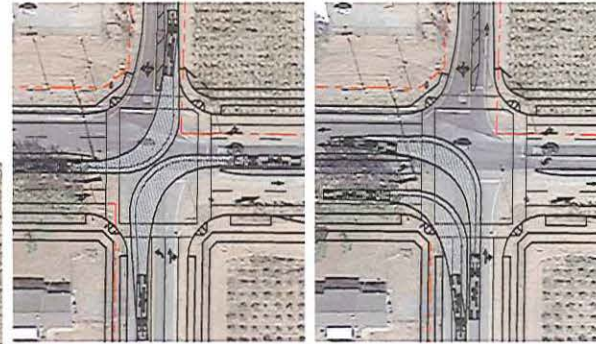
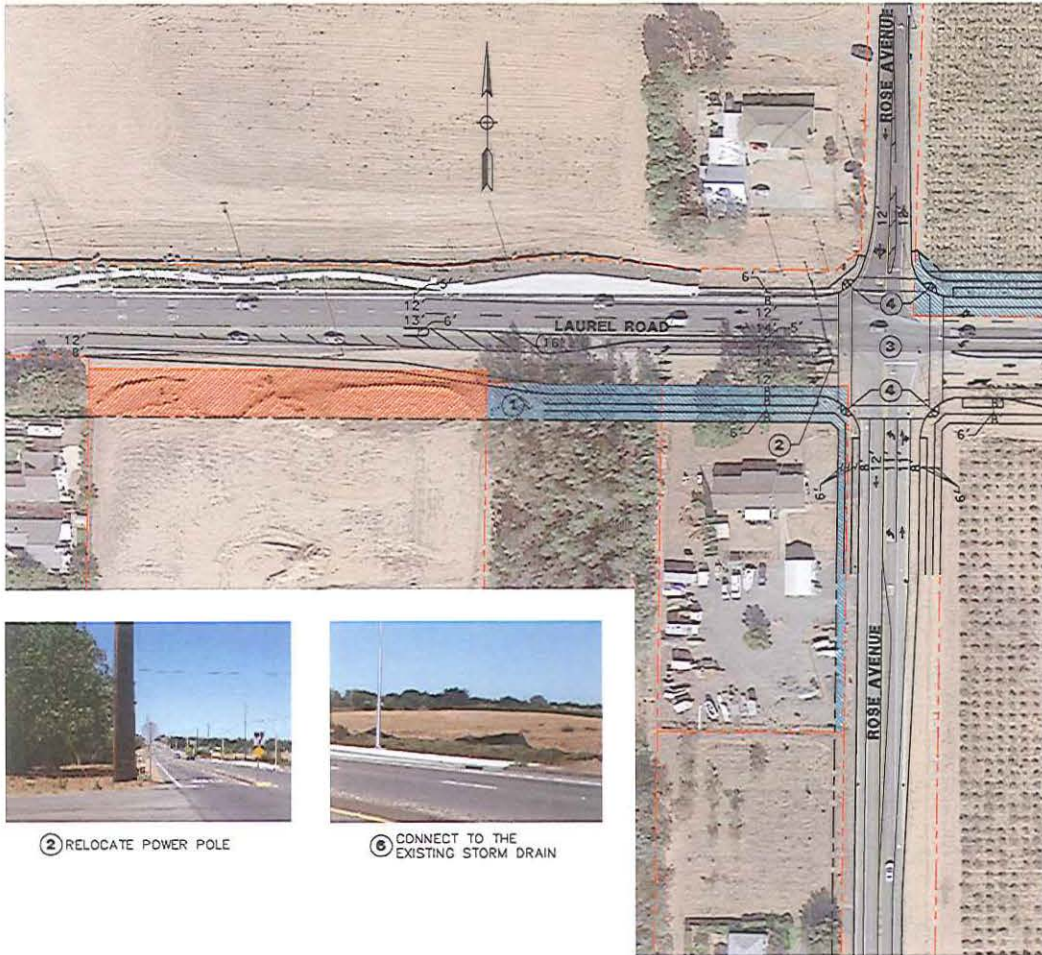


LEGEND:

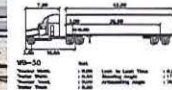
-  RIGHT OF WAY DEDICATION
-  RIGHT OF WAY ACQUISITION
-  EXISTING RIGHT OF WAY
-  PROPOSED RIGHT OF WAY

DESIGN CONSIDERATIONS TO WIDENING LAUREL ROAD

- ① RIGHT OF WAY ACQUISITION.
- ② RELOCATE POWER POLE
- ③ SIGNALIZE INTERSECTION.
- ④ INSTALL CROSSWALK AND ADA COMPLIANT CURB RAMP
- ⑤ COMPLIANT CITY OF OAKLEY MAJOR ROAD SECTION
- ⑥ CONNECT TO THE EXISTING STORM DRAIN SYSTEM



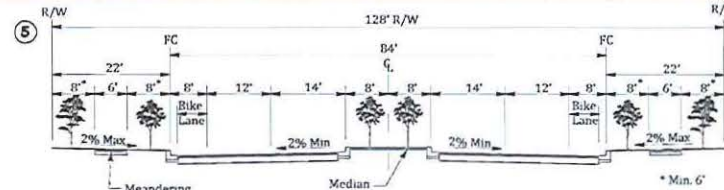
TRUCK TURNING



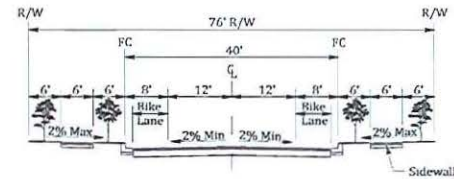
② RELOCATE POWER POLE



⑥ CONNECT TO THE EXISTING STORM DRAIN



FOUR LANE DIVIDED



TWO LANE COLLECTOR/ARTERIAL

1750 N. FIRST STREET
SUITE 200
OAKLEY, CA 94621
925-467-9100
925-467-9109 (fax)

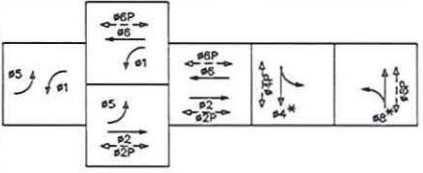
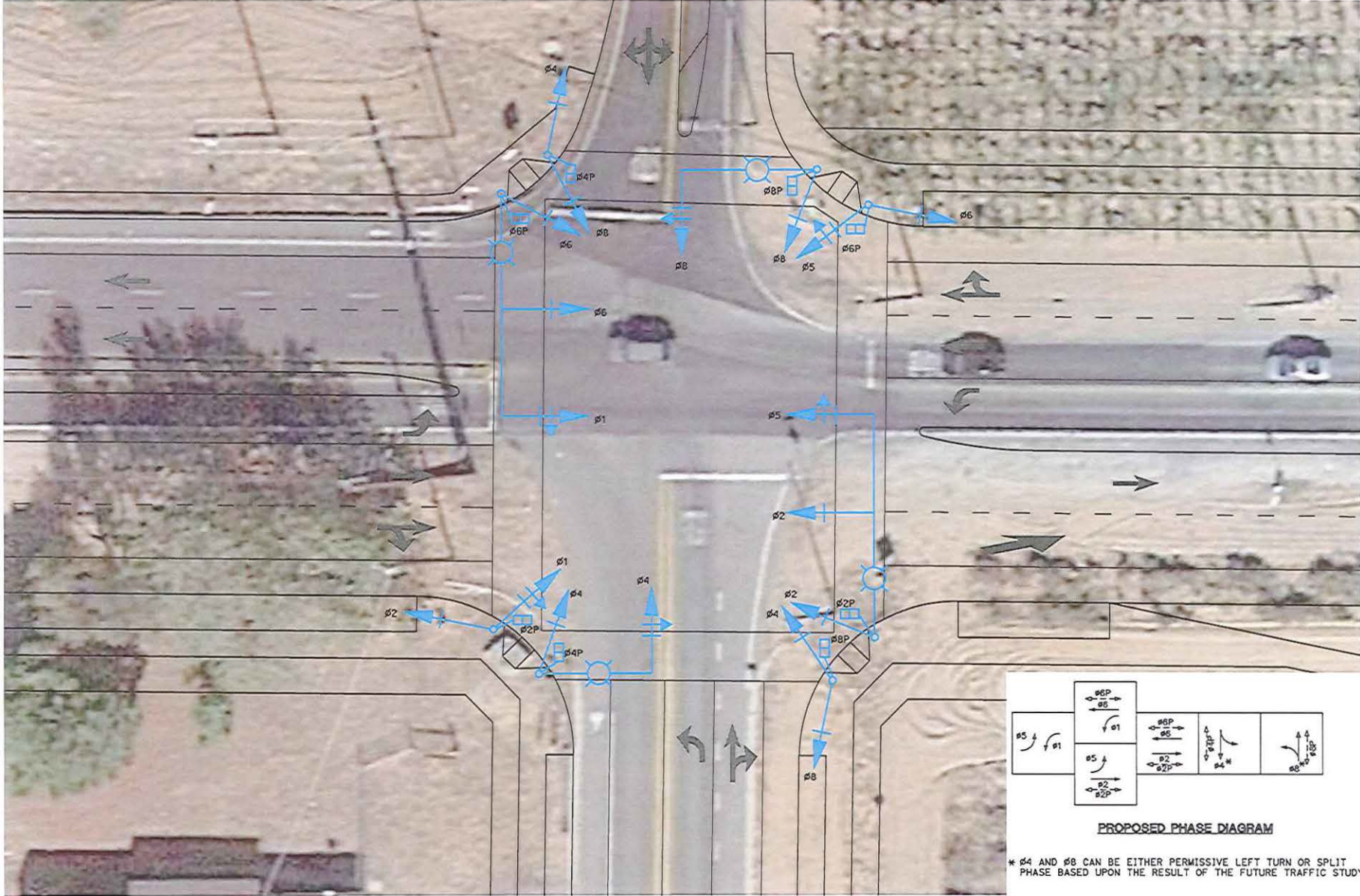


LAUREL ROAD AND ROSE AVENUE
INTERSECTION IMPROVEMENT
AND SIGNALIZATION PROJECT
CONTRA COSTA

OAKLEY

Project No.	017/01/2018
Scale	1"=40'
Drawn	LDW
Checked	LDW
Approved	LDW
Date	10/20/2018

Sheet No.	1
Total Sheets	3



PROPOSED PHASE DIAGRAM

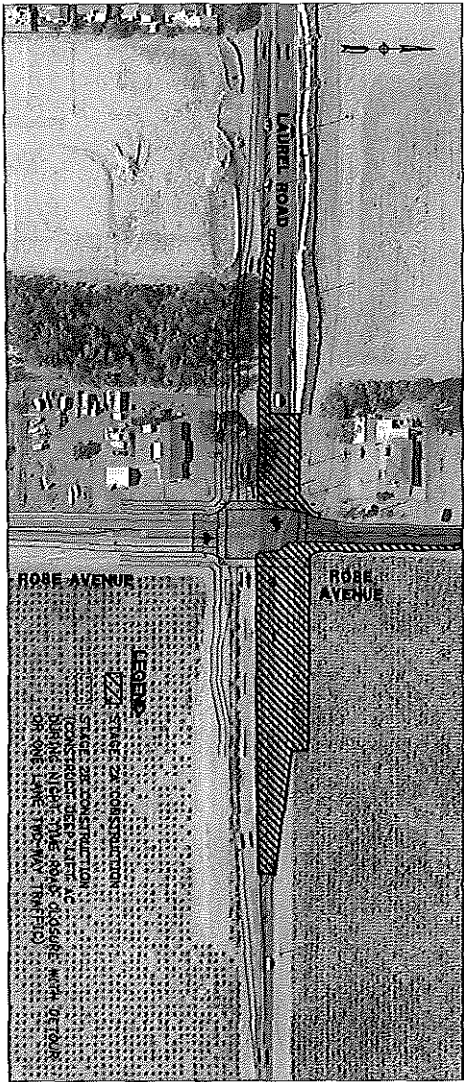
* φ4 AND φ8 CAN BE EITHER PERMISSIVE LEFT TURN OR SPLIT PHASE BASED UPON THE RESULT OF THE FUTURE TRAFFIC STUDY

1235 N. FIRST STREET
SUITE 600
OAKLEY, CA 94621
415-457-9100
415-457-9199 (fax)

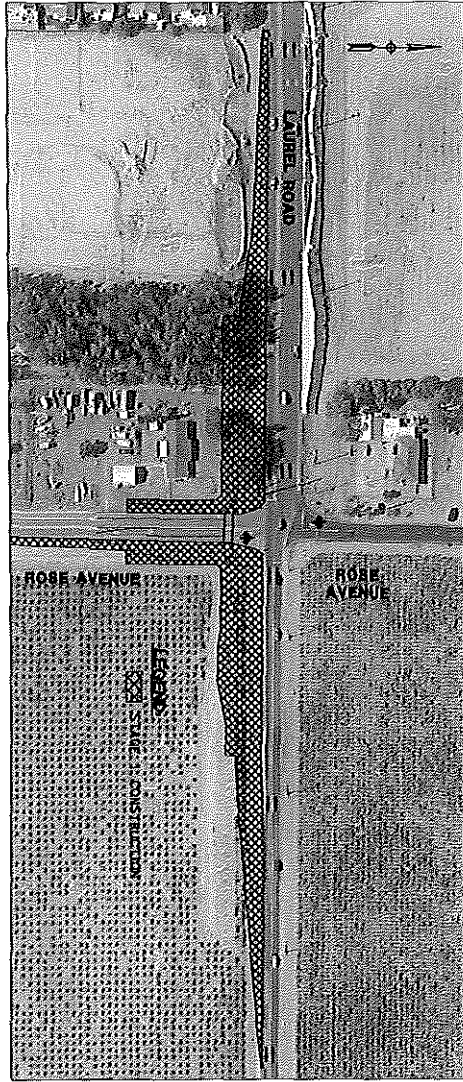


**LAUREL ROAD AND ROSE AVENUE
INTERSECTION IMPROVEMENT
AND SIGNALIZATION PROJECT - SIGNAL INSTALLATION**
OAKLEY, CONTRA COSTA, CA

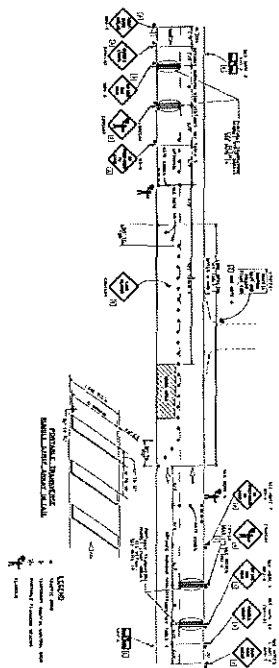
Date	By	Checked	Reviewed
08/27/2013	JK		
09/10/2013	JK		
09/10/2013	JK		
09/10/2013	JK		
09/10/2013	JK		
09/10/2013	JK		



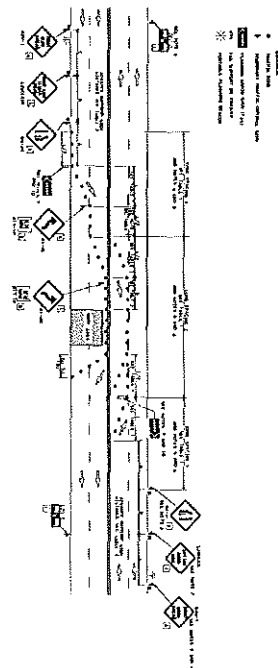
STAGE 2 CONSTRUCTION CONCEPT



STAGE 1 CONSTRUCTION CONCEPT



APPLICABLE TEMPORARY TRAFFIC CONTROL SAMPLES



LANE CLOSURE

DATE	BY	REVISION
07/26/2018	JK	1
08/01/2018	JK	2
08/01/2018	JK	3
08/01/2018	JK	4

LAUREL ROAD AND ROSE AVENUE INTERSECTION IMPROVEMENT AND SIGNALIZATION PROJECT - STAGE CONSTRUCTION
 OAKLEY CONTRA COSTA CA

Bkf
 ENGINEERS | SURVEYORS | PLANNERS
 1730 N. FIRST STREET
 SUITE 600
 SAN JOSE, CA 95112
 408-447-9100
 408-447-9169 (FAX)

**City of Oakley
CIP No. 191 Laurel Road and Rose Avenue Intersection Improvements**

TASK	SCOPE DESCRIPTION	STAFF CATEGORY										Total Hrs	EST FEE
		PIC (Natalina Bernardi) \$223.00	PM (Jaggi Bhandal) \$184.00	Associate (Davis Thresh) \$200.00	Associate (Jeff Wang) \$194.00	Engineer III/ Survey III \$161.00	Engineer II/ Survey II \$138.00	Engineer I/ Survey I \$120.00	Drafter III \$119.00	Survey Crew \$262.00	Admin \$63.00		
Task 1	Project Start-UP & Site Investigation												
	Obtain/Review Existing Data, As-builts							4					4
	Background/Supplemental Survey								4		28		32
	Right of Way Record Boundary					8	8	8					24
	Map Existing Utilities		1					4		4			9
	Meetings	4			4								8
	Quality Control	1											1
	Subtotals	5	1	-	4	8	16	12	4	28	-	-	78
Task 2	Analysis and Concept Design												
	Preliminary Design Submittal 1	1	2		2	12	12	8	2				39
	Evaluate/Prepare response to Comments		2		2	4							8
	Preliminary Design Submittal 2	1	2		2	12	12	8	8				45
	Subtotals	2	6	-	6	28	24	16	10	-	-	-	92
Task 3	Design Development												
	35% Level Design Package	1	4		2	16	16	16	12				67
	Storm Drainage Memo and Design		8			16	12	4	4				44
	Utility Coordination												
	Send out Notices to Utility Owners							8					8
	Utility Coordination		14		8	16	16						54
	Subtotals	1	12	-	2	32	28	20	16	-	-	-	111
Task 4	Construction Documentation												
	Prepare 65% PS&E	1	8		6	32	32	24	16				119
	Evaluate/Prepare response to Comments		4		4								8
	Prepare 90% PS&E	1	6		4	24	24	32	12				103
	Evaluate/Prepare response to Comments		4		2								6
	Prepare Final 100% PS&E	1	2		2	12	12	16	8				53
	Evaluate/Prepare response to Comments		2		2								4
	Prepare Final Submittal Package	1	2		4	8	8	8	8				39
	Prepare Plats and Legals for Three Parcels		2	2		24	16	4	4				52
	Prepare Stage Construction & Traffic Handling Plans		4		2	8	8						22
	Evaluate/Prepare response to Comments		2		2								4
	Prepare Final Stage Construction & Traffic Handling Plans	1	2		2	8	8	2	4				27
	Subtotals	5	38	2	30	116	108	86	52	-	-	-	384

**City of Oakley
CIP No. 191 Laurel Road and Rose Avenue Intersection Improvements**

TASK	SCOPE DESCRIPTION	STAFF CATEGORY											EST FEE	
		PIC (Natalina Bernard)	PM (Jaggi Bhandal)	Associate (Davis Thresh)	Associate (Jeff Wang)	Engineer III/ Survey III	Engineer II/ Survey II	Engineer I/ Survey I	Drafter III	Survey Crew	Admin	Total Hrs.		
		\$223.00	\$184.00	\$200.00	\$194.00	\$151.00	\$136.00	\$120.00	\$119.00	\$262.00	\$63.00			
Totals By Classifications		13	57	2	42	184	176	134	82	28	-	1,085	Total Labor	
Total Direct Labor		\$ 2,899.00	\$ 10,488.00	\$ 400.00	\$ 8,148.00	\$ 27,784.00	\$ 24,288.00	\$ 18,080.00	\$ 6,758.00	\$ 7,338.00	\$ -	\$ 107,181.00	\$ 117,037.00	
Subconsultant														
	Task 1	Task 2	Task 3	Task 4										
	Parikh Consultants (Geotechnical)	\$6,571.24												\$ 6,571
	EXARO Technologies Corporation (Potholing), Total 8 Pot Holes	\$12,000.00												\$ 12,000
	Subconsultant Costs												\$ 18,571.24	
Non-reimbursable														
	Printing, Deliver, Mileage, Postage, Parking												\$ 4,682	
	Reimbursable												\$ 4,681.56	
PROJECT TOTAL												\$ 140,289.80		

Exclusion and Assumption:

- 1) Environmental service for the project and utilities clearance is excluded and the PG&E service application fee for the proposed traffic signal system will be paid by the City.
- 2) The cost for potholing is \$1,000 for each pot hole. This proposal assumes twelve pot holes, four for the existing 12" water line along north side of Laurel Road & eight for existing water and gas line within the intersection, will be performed, for lowering the roadway profile to meet 45MPH design speed. Potholing for existing joint trench along south side of Laurel Road will be assumed be performed by the development project.
- 3) For traffic handling plans it is assumed that the roadway widening on south side of Laurel Road as part of the development project will be constructed prior to CIP No. 191 & CIP No.196 project.

RESOLUTION NO. ___-16

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF OAKLEY APPROVING AN AGREEMENT WITH BKF ENGINEERS, INC. FOR ENGINEERING DESIGN SERVICES ASSOCIATED WITH THE LAUREL ROAD AND ROSE AVENUE INTERSECTION IMPROVEMENT PROJECT NUMBER 191 AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE AGREEMENT

WHEREAS, as part of the Fiscal Year 2016/17 Budget, the City of Oakley approved a 5-Year Capital improvement Program (CIP); and

WHEREAS, Project Number 191 is to design the improvements for the Laurel Road and Rose Avenue Intersection Improvement Project; and

WHEREAS, after a formal review and evaluation of the proposals from four (4) design consultants, BKF Engineers, Inc., was selected as the top qualified firm to perform this design service; and

WHEREAS, BKF Engineers, Inc., has submitted a proposal to prepare design services for CIP Project Number 191 for an amount not to exceed \$140,289.80; and

NOW, THEREFORE, BE IT RESOLVED AND ORDERED, that the City Council of the City of Oakley hereby approves the proposal with BKF Engineers, Inc. for the preparation of engineering concept design drawings, and cost estimates for CIP Project Number 191 for an amount not to exceed \$140,289.80, in the form attached hereto as Exhibit A, and authorizes the City Manager to execute into the agreement.

PASSED AND ADOPTED by the City Council of the City of Oakley at a meeting held on the 13th of September, 2016 by the following vote:

AYES:
NOES:
ABSENT:
ABSTENTIONS:

APPROVED:

ATTEST:

Kevin Romick, Mayor

Libby Vreonis, City Clerk

Date