

Town of Atherton F&L Proposal

Professional Engineering Services
for El Camino Real Stormwater
and Drainage Improvements

Civil Engineers

Surveyors

Construction Managers

April 23, 2024

Douglas Kim, AICP
Town of Atherton
Office of the City Clerk
80 Fair Oaks Lane
Atherton, CA 94027

April 23, 2024

Dear Douglas,

Freyer & Laureta, Inc. (F&L) is pleased to submit this proposal in response to the Town of Atherton's (Town) Request for Proposals (RFP) for Professional Engineering Services for El Camino Real Stormwater and Drainage Improvements dated March 26, 2024. We have assembled a team of experts to partner with the Town to lead the delivery of this critical capital improvement project, improving the overall reliability and resiliency of its stormwater drainage system.

F&L is an established California Corporation (S-Corp), a Small Business (SB(Mirco)), and a Minority Business Enterprise (MBE) providing award-winning consulting engineering services for private and public agencies throughout the Bay Area. Since our inception more than 26 years ago, F&L has had the opportunity to successfully oversee over \$200 million in infrastructure and capital improvement projects for numerous municipal and special district clients throughout the Bay Area. With our technical expertise, understanding of the region, and desire to provide excellent service, F&L has established an engineering reputation with many agencies and cities across the Peninsula. Leveraging our diverse experience and familiarity with challenging storm drain systems, we can design specific solutions for the Town's project that will simplify and improve its current infrastructure.

F&L has partnered and will be supported by the expertise of our subconsultant partners, including:

- **B2 Engineering** for hydraulic modeling support
- **Pacific Crest Survey, Inc.** will provide field services for all topographic survey needs

As President of F&L and professionally licensed in the State of California, I will serve as F&L's Principal-In-Charge. I am committed to serving for the duration of any agreement with the Town and authorized to bind F&L contractually. In my 30 years of professional experience, I have led a wide range of city, county, state, and federal Capital Improvement Projects (CIP) projects of similar scope, emphasizing urban master planning, wastewater collection, and construction planning – offering the Town a unique perspective and understanding of the current construction climate. Furthermore, I have been involved with the West Bay Sanitary District's Capital Improvement Program for over 25 years, including several projects within the Town and within Caltrans Right of Ways.

Richard Laureta, P.E., President
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laureta@freyerlaureta.com

Due to his extensive experience designing and managing stormwater projects for numerous California municipalities, Senior Project Manager Eric Biland, P.E., will serve as Project Manager and be the primary contact for the Town's project.

Eric Biland, P.E., QSD/P, QISP, LEED AP, Senior Project Manager

20863 Stevens Creek Blvd., Ste. 400, Cupertino, CA 95014

(408) 516-1090 x401 (O) | (650) 207-2826 (M)

biland@freyerlaureta.com

Our experienced team is excited to work with the Town to help it create and implement customized solutions to improve its drainage system. We look forward to discussing our proposal in further detail. Please call or email if you have any questions in the interim.

Very truly yours,



Richard Laureta, P.E.
President, Freyer & Laureta, Inc.
laureta@freyerlaureta.com



Eric Biland, P.E., QSD/P, QISP, LEED AP
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I FIRM INFORMATION

F&L is an award-winning civil engineering and surveying firm providing a full range of survey, civil design, planning, and construction management services for various regional infrastructure and development projects.

We are currently involved in stormwater projects of similar size and scope that are either close to completion or in the construction phase. Each project requires us to understand the unique needs of our clients, stay up to date on the most effective technology/methodology available, and develop the most appropriate recommendations that satisfy operational and regulatory requirements.

Our success relies heavily on our ability to coordinate with multidisciplinary teams effectively, including Caltrans and various permitting agencies, to successfully execute approvals, planning and improvement studies, schematic designs, value engineering, construction method evaluations, public outreach and coordination, peer, traffic, and constructability reviews, cost estimates, and more.

For over two decades, our firm's extensive experience has guided our team's thorough understanding of the technical and non-technical drivers that must be considered when implementing improvement projects. At F&L, we understand the importance of identifying and providing detailed documentation of potential non-technical requirements that may impact project costs and implementation strategies when improvements are within existing urban neighborhoods.

Leveraging our years of working hand-in-hand with public agencies, including the West Bay Sanitary District that serves the Town of Atherton, F&L is skilled in preparing clear and concise plans and specifications that lead to a smoother permitting process and construction implementation, as showcased in our project experience in Section 3. Our top priority is to provide the right expertise, support, and collaboration with our client's extended teams to ensure each project's successful planning and execution. At F&L, we pride ourselves on providing exemplary client service through open communication, a sound technical approach, project organization, and adherence to our customers' schedules and budgets.

For over two decades, we have successfully provided similar planning, design, and construction consultation services for a diverse mix of local clientele – offering the Town more than 150+ years of combined expertise to support a wide breadth of civil engineering service needs. Our clients' success directly measures our own, which is why our firm offers a comprehensive suite of services to ensure every aspect of a project is thoughtfully and successfully designed and executed. Our broad expertise includes experience in many areas of civil engineering for public works agencies and special districts that we apply to our projects, including:

- **Civil Engineering Design & Master Planning** – grading, dry and wet utilities, roadway, curb and gutter, and sidewalk.
- **Stormwater Compliance** – Stormwater Control Plans (SCPs) and Stormwater Pollution Prevention Plan (SWPPP) preparation and inspection, hydrology, and hydraulic studies.
- **District Engineer** – plan review, coordination with outside utility agencies, operational review, and technical support to develop annual operating and capital improvement budgets.

Success through
professional pride
& client satisfaction



- **Construction Management** – support during the bid period, construction, and closeout of projects. Support typically includes response requests for information, submittal (shop-drawing) review, on-site inspection and documentation of activities, design peer review, value engineering, constructability review, cost analysis, and claims management services.
- **Program Management** – a wide range of services, including staff augmentation to assist with long-range capital improvement programs, project controls, progress tracking and reporting, oversight of deliverables, large-scale infrastructure program management from planning through implementation, construction administration, and public outreach.
- **Surveying & Mapping** – tentative and final maps, American Land Title Association (ALTA) survey, plats and legal descriptions, and topographic maps.

Our team’s responsiveness and technical expertise will allow us to deliver the engineering and construction perspectives needed to execute the Town’s project successfully. This background will enable us to collaborate with the Town to develop prioritized solutions coordinated with other capital improvement projects on time and within budget. To that end, the construction documents must consider constructability and construction methods to ensure that proposed solutions include a risk management approach to reduce the potential for contract change orders that are not a result of unforeseen conditions or direct owner changes.

LEGAL NAME	Freyer & Laureta, Inc.	
LOCATIONS	South Bay Office – Main for Project 20863 Stevens Creek Blvd., Ste 400 Cupertino, CA 95014 (408) 516-1090	East Bay Office 825 Washington St., Ste Oakland, CA 94607 (510) 937-2310
	F&L Headquarters 150 Executive Park Blvd., Ste 4200 San Francisco, CA 94134 (415) 534-7070	North Bay Office 505 San Marin Dr., Ste A220 Novato, CA 94945 (415) 534-7070
ESTABLISHED	1997, California S-Corporation	
FIRM SIZE	28 full-time	
LEADERSHIP	<ul style="list-style-type: none"> • Richard Laureta, P.E., President, Civil Engineer CA No. 55783 • Jeffrey Tarantino, P.E., Executive Vice President, Civil Engineer CA No. 63936 • Josh Kimbrell, PE, QSD/P, LEED Green Assoc., Vice President, Civil Engineer CA No. 77666 • David Freyer, P.E., Vice President, Civil Engineer CA No. 30060 • Lorraine Htoo, PE, LEED AP, Civil Engineer CA No. 79542 • Eric Biland, P.E., QSD/P, LEED AP, QISP Civil Engineer CA No. 75125 	

2 APPROACH

2.1 Understanding

The Town of Atherton faces unique challenges to storm drainage solutions along the El Camino Real corridor:

- El Camino Real presents a perpendicular barrier to the natural flow pattern, conveying stormwater flows from the hills to the Bay
- Caltrans drainage favors longitudinal piping, transversing only at a few selected points
- The exceedingly flat topography amplifies the effects and extent of localized flooding
- El Camino Real is a critical arterial through the Town and to neighboring communities, with localized flooding having an outsized effect on the safety of Atherton residents during rain events.
- Water Board requirements for stormwater discharge to storm drain systems and natural channels have significantly increased restrictions on impervious surfaces.
- Multi-jurisdictional permitting coordination and mitigation efforts are required for storm drain improvements.
- Traffic control and public safety for any construction activities along the corridor are complex.
- El Camino Real is a major corridor for power and telecommunication utilities, making transverse crossings of the roadway with any storm-related infrastructure difficult.

With all these factors in mind, improvements to the El Camino Real stormwater and drainage system within the Town of Atherton limits is a challenge that would benefit from a turnkey engineering firm with a proven track record, local expertise, and the ability to successfully carry a project from conceptual design, through the permitting process, to final design documents, and on through bid assistance and construction support. That is precisely the benefit Freyer and Laureta propose in this submittal to the Town.

2.2 Approach to Work

Every engineering assessment is unique, and following a standardized process or checklist can sometimes result in a missed opportunity to develop customized solutions for our clients. We have also found that the success of any project relies heavily on our ability to collaborate with key stakeholders (both internal and external) and permitting agencies effectively – which, in the case of any drainage solutions along the El Camino Real corridor, will be critical.

Deliverables often include, but are not limited to, approvals, plans, improvement studies, schematic designs, value engineering, construction method evaluations, surveys, public outreach and coordination, peer, traffic, and constructability reviews, cost estimates, and more. F&L has the experience to meet the Town's civil engineering needs, objectives, and scope items listed in the RFQ, including upgrading, repairing, and expanding Town-owned and operated facilities and infrastructure.

To demonstrate our team's experience with similar projects, we are presenting key approach items that our engineers will apply to any project assigned to F&L. We feel that there is no better

way for the Town to understand how we will execute the planning, design, and implementation of infrastructure improvement projects than by outlining key task approaches we will consider.

The following sections briefly describe those approach items and how the F&L Team will implement those to create effective scopes of work for the project, including tasks such as:

- Preliminary Design, including existing conditions review and permitting coordination
- Preparation of Construction Contract Documents and estimates
- Bidding and Construction Support
- Preparation of Record Drawings and Warranty Inspection
- Land Development Review of public and private improvements
- Review of capacity studies, including impacts of proposed improvements

We understand that the design engineer will be responsible for working closely with the Town to clearly outline the required improvements, including coordinating with utility owners identified through available records research and utility potholing to minimize the potential for change orders.

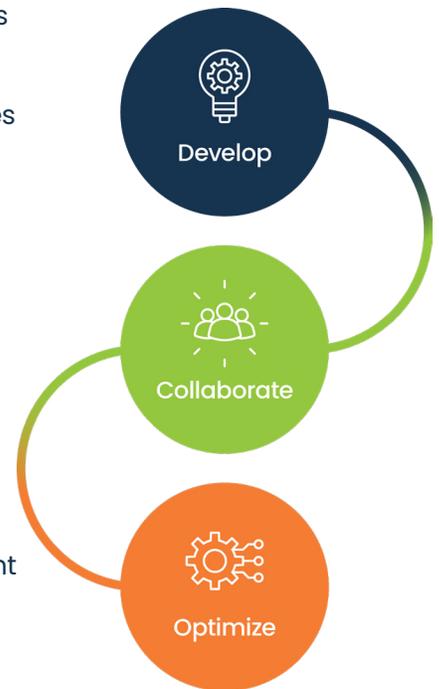
We have prepared our approach described below, highlighting key activities our team will consider for this project. The key activities are based on F&L's experience planning, designing, and constructing infrastructure improvement projects to control costs and meet project objectives and schedules.

Project Management and Coordination

The nature of a lead consultant requires F&L to have tools and processes in place to proactively work with the Town to identify project needs, develop detailed scopes of work, and provide detailed progress reporting. It is critical to track assignments, budget status, and schedules to ensure that we work together to efficiently and effectively utilize the available budget.

The F&L team's approach includes the following:

- Triage the significant amount of drainage study work and planning efforts that have been completed along the El Camino Real corridor.
- Develop detailed and concise scopes of work, including the proposed budget and schedule, for the selected improvements.
- Track all project decisions (pending and complete) in a Project Decision Log and circulate monthly.
- Develop, maintain, and report project schedules for each assignment to allow the Town and the F&L team to proactively mitigate, when feasible, schedule variances.
- Implement a robust Quality Assurance/Quality Control program where all staff take ownership of individual assignments to produce quality work. We leverage our senior engineer's expertise to provide independent review of all work products and to identify any constructability issues.





F&L understands that the key to successfully providing engineering services is to have an established a framework for communication, scope preparation, and budgeting. We have experience working with large and often complex municipalities - leading the planning and design of over \$200 million in infrastructure improvements throughout the Greater San Francisco Bay Area.

F&L's full-project life experience allows our engineers to incorporate multiple design criteria, including analysis, materials, construction methods, and potential public impacts (both near-term and long-term). These elements allow us to present utility owners with multiple possible solutions while identifying a preferred solution.

We plan to implement a management system to inform the Town of project elements before our submittals and provide clear and concise documents further defining and refining proposed project elements. Our team continues that approach, bringing in a wide breadth of engineering public works talent to support the Town- ensuring the delivery of high-quality work on schedule and within the budget of the Town's needs.

Survey and Utility Investigation

As design engineers, surveying is a fundamental component of how we deliver our services. The field survey provides the baseline picture for our design team and begins the process of utility investigation needed for most public works infrastructure improvement projects. We utilize the latest equipment to create detailed maps to establish existing conditions.

Our surveying and mapping experience allows us to observe existing conditions to identify evidence of existing utilities quickly. Our staff also understands the critical importance of contacting third-party utility owners, including municipalities, special districts, state agencies, and communications firms. It is crucial to perform utility records research to inform the planning of the utility investigation fieldwork.

We will provide staff who are highly experienced with the Subdivision Map Act and capable of reviewing the following:

- Tentative Maps-residential, mix-use, and commercial projects
- Final Maps-residential, mixed-use and commercial projects
- Record-of-survey, plats, legal descriptions, monuments
- ALTA/ACSM, Boundary and Topographic Surveys

As we develop the utility base maps using field survey information and utility records provided by the utility owners, F&L will begin the initial scoping of the utility investigation and potholing program. Our staff understands that our initial efforts to identify utility locations early in the design phase can yield significant benefits during construction. F&L will develop a proposed utility potholing plan to allow our engineers to validate available as-built information and identify key constraints that may affect final water main alignments.

Leverage In-House Knowledge

In our experience, internal staff will have the best knowledge of existing operations and potential approaches for implementing improvement projects. Engaging the Town's engineering and operation staff members for tasks with accelerated schedules to execute efficiently will be critical. As design engineers, we must include operation and maintenance staff throughout the development and design process before we can be assigned a task and proceed with developing design criteria, drawings, and specifications. We have learned by engaging operations/maintenance staff early and frequently during the design development



phase, we can incorporate operations-driven design criteria to create a successful project.

F&L recognizes that going from a concept on a piece of paper to building/operating in the real world can be challenging, and all stakeholders' input is crucial to delivering successful project results. We will work with the Town to identify operation and maintenance staff to work with throughout project development. The intent is not to burden staff but to help facilitate discussions early in the project definition phase to ensure our submittal meets the Town's expectations and needs. We take pride in engaging all engineering and operation stakeholders so all staff buy into the final solution.

Planned Coordination

F&L, particularly our proposed project manager and design team, will work closely with Town personnel and its partners to plan and implement capital improvements that ensure long-term operational optimization and reliability.

The F&L Team will utilize feedback from initial agency meetings to develop weighted evaluation criteria for each project element while minimizing technical and non-technical concerns from local entities that could impact project costs or schedules. Once completed, conceptual design drafts will be presented to the Town for feedback and comment to ensure any operational needs are addressed before submission to involved partners – resulting in greater buy-in and engagement by the entire team.

We recognize that the Town will rely on our expertise to meet project objectives. As consultants, we are thoughtful in our approach to promptly assist the Town with solving the correct issues. We cannot simply execute a task without using our experience with similar work that may influence the approach or deliverable for a specific task. We understand that clients hire us not because of the name on the door but because of the experience and commitment of each individual on our team.

Contract Document Development

We are highly skilled in developing clear and concise Contract Documents for a variety of improvement projects. F&L has focused on infrastructure improvement projects since our inception. Our wide-ranging expertise includes emergency repair projects and large-scale annual capital improvement programs. F&L staff is experienced with all construction methods for utility replacement and enhancements, including supplemental detention and auxiliary and main pump station designs. Our experience with a wide range of construction methods allows our staff to recognize constructability challenges during design development so special conditions and constraints can be identified within the Contract Documents and enable potential bidders to develop pricing reflective of anticipated site conditions and restrictions.

The Town will benefit from our staff's experience with design development as we can leverage this knowledge gained on similar projects to develop solutions that address common challenges. F&L understands that each project is unique, and the existing site conditions must be carefully considered when developing infrastructure improvement plans, including evaluating available construction methods to avoid creating a project scope that is not constructible.

Facilitate Design Reviews

F&L proposes to incorporate facilitated design review meetings into each scope of work. The purpose of the facilitated meeting is to provide F&L staff with an opportunity to present the submittal to Town staff, who will review the technical information and engage staff in open discussions. Establishing a workshop setting with the Town and our staff encourages open discussions on comments and questions so they can be resolved quickly, resulting in schedule

savings. The workshops also provide an opportunity for our staff to explain detailed design assumptions that may help Town staff better understand constraints that could dictate a solution.

F&L will prepare detailed agendas and distribute them to all meeting attendees in advance of a workshop and will be responsible for facilitating the discussions. It will be apparent when a specific comment or question cannot be resolved during the meeting. Therefore, it becomes F&L's responsibility to capture the comment/question, including providing a timeline for when the Town can expect a response. Finally, F&L will produce meeting minutes to memorialize discussions and responses to comments so that all team members will have a record of decisions for reference as the project moves forward.

Regulatory Requirements

There are many drivers for infrastructure improvement projects, with age being the most common reason for a utility owner to develop a capital improvement project; however, the evolving regulatory environment can also be a significant driver. Infrastructure improvement projects can result in numerous benefits, such as protecting human health by reducing sanitary sewer overflows (SSOs), improving the reliability of potable water supply through water main replacement, and reducing water quality impacts by reducing sediment load to streams and creeks.

The State Water Resources Control Board (SWRCB) and numerous other regulatory agencies and non-profits continually evaluate existing and pending regulatory requirements to identify new requirements that can significantly impact utility owners. As an engineering consultant, we can assist the Town with reviewing newly promulgated regulatory requirements and the status of evolving requirements. As the Town decides on the specific capital improvements, the impact of current and future regulatory requirements can significantly drive the cost and schedule of necessary improvements.

Quality Assurance and Quality Control

In our experience, the engineering design effort to develop construction drawings, specifications, and cost estimates requires both peer review during design development and principal-level review before every submittal. F&L has created a proactive quality control (QC) program for all our projects. We recognize that a passive review process where a reviewer is given a submittal at the last minute to review quickly before the submittal deadline does not provide the necessary oversight for our work product. All staff are involved in the QC program because it takes active engagement from staff preparing the detailed calculations, drawings, specifications, etc., and the assigned QA/QC officer to deliver a high-quality and complete product to the client.

The QA/QC program proposed for the Town's projects may include:

- Written QA/QC work plans to identify key tasks from the scope of work and milestone deliverable dates to develop internal schedules to guide staff for the necessary review processes. The work plan will be amended for each task order issued, containing a specific scope and budget.
- Throughout the development of the project deliverables, the team will perform regular QC checks. The QC check involves bi-weekly team meetings where the project manager and key staff present progress to the QA/QC officer assigned to the project – fostering an environment of teamwork while minimizing the potential for the project development process to go off track.



- We will perform a detailed QA/QC review and prepare submittal review logs for each submittal to allow the team and the TAC to document comments and responses.

Foster Communication

Communication is a simple concept often sacrificed when schedules are tight. In our experience, the time to communicate openly and clearly is when the development of the project plans is at its most frenetic. Our communication plan includes regular telephone updates and conference calls geared to keep detailed decisions from obstructing deliverable timelines. We provide clear summaries of work completed included with each invoice along with a discussion of upcoming work, utilizing email to document key decisions and action items but not rely on email as a day-to-day communication tool, and identify issues along with potential solutions for review by the Town.

We have learned that proactive communication can reduce the potential for misunderstandings or surprises as the design work progresses. Our project manager understands that a brief phone call with the Town's project manager provides an opportunity to review the project status, discuss the overall schedule, and notify the project manager about items that require input. We also understand that focused in-person meetings cannot be replaced with emails and phone calls, and meetings must be scheduled with an agenda. F&L will also prepare minutes to maximize the benefits of meeting times.

Regular Reporting

F&L believes that a design team is only successful when the client is fully aware of current progress, the status of issues, and the current budget status. F&L utilizes monthly reports that provide a high-level summary of work completed, budget status, and progress toward achieving key milestones. The purpose of the monthly reports is to provide a reporting tool for Town staff to present to Town management and the Council. Our monthly report will also highlight any key challenges encountered, including steps taken by F&L to address the challenges.

The key reporting tool utilized by F&L is the telephone. We recognize that there may be critical issues that are time-sensitive and need a phone call to the Town. We cannot rely on email or monthly reports for all matters. A phone call can also provide a brief update, even if there is no critical issue. Ultimately, F&L must actively communicate with the Town to avoid the potential for any surprises.

Engage All Stakeholders

We understand that we must work hand-in-hand with the Public Works. Navigating compliance with standards and specifications can be a complex and challenging process. Our team is experienced and prepared to assist and support the Town in engaging multiple agencies – preparing and presenting designs and documents throughout the process, facilitating internal reviews, and obtaining approvals to prevent unnecessary delays or project complications.

Leveraging the F&L team's experience will allow the Town to engage all appropriate parties to work through the approval process, including resolving any technical concerns or requirements that may impact a project's scope, costs, and schedule changes.

Cost Estimates

Estimated costs must account for the current bidding environment and the potential construction complexity of proposed projects. Construction of new infrastructure can lead to

site-specific constraints that impact potential construction costs.

We are familiar with the bidding climate in the Bay Area, and our team will utilize our combined local knowledge, including up-to-date cost databases and automated spreadsheets, to develop comprehensive and accurate cost estimates.

Public Engagement

Routine infrastructure improvement projects will result in temporary impacts on the public. It is critical to proactively engage the public to inform residents of the proposed improvements, including their long-term benefits for the community. F&L routinely assists with developing and implementing public outreach programs and can also take a leadership role in a public outreach program. In our experience, most of the complex challenges that an infrastructure improvement project faces from the public are when they need help understanding the intent and goal of a project. As a project design develops,

F&L will work with the Town to identify potential short-term impacts during construction, including contractual requirements the Town may consider incorporating into the final construction documents to manage the short-term implications. Some projects may require early and frequent engagement with the public if the potential construction impacts. In some cases, permanent impacts could be perceived as unreasonable if not correctly presented.

F&L will utilize numerous tools, including renderings, to assist the Town in presenting a project, its impacts, and its benefits to allow the public to develop a level of comfort with the project. In addition, we will assist the Town to engage and facilitate, as appropriate, public feedback on proposed improvements. It has been F&L's experience that by engaging the public throughout the design process, some of the potential negative feedback can be addressed by providing the public with the appropriate context and background on the purpose and goals of the proposed improvements.



3 PROJECT EXPERIENCE

F&L has provided engineering design, construction management, and construction inspection services for various stormwater and drainage system projects. We have highlighted a few of our recent projects on the following pages – illustrating our team’s ability to provide the necessary technical expertise to meet the Town’s needs for this project.

In addition, F&L has worked with our proposed subconsultant Pacific Crest Surveying on numerous projects, including the WBSD...

Our proposed Project Manager, Eric Biland, has a long-standing relationship with B2 Engineering staff, working with them on numerous hydraulic modeling projects while at another firm. Eric also brings with him extensive previous experience with stormwater pump station solutions for Caltrans projects involving environmental jurisdictions with the Water Board, Fish and Wildlife, Army Corps, and flood control districts.

- **Condition Assessment** – F&L has supported condition assessment of existing stormwater systems to determine the remaining useful life, develop rehabilitation strategies, and identify potential risks and failure consequences.
- **Project Management & Coordination** – F&L has led teams comprised of multiple subconsultants, various stakeholders, and public agencies and understands the responsibility of coordinating and monitoring all work.
- **Capital and Operation Cost Evaluation** – We take pride in developing project-specific solutions that meet multiple criteria. We collaborate with owners to select the most cost-effective preferred solution.
- **Hydraulic Modeling and Planning** – We understand the importance of leveraging hydraulic models to evaluate potential improvement needs to support ongoing operations, improve operational efficiencies, identify possible system deficiencies resulting from projected growth, and apply experience from similar projects to “ground truth” hydraulic modeling results.
- **Engagement of Operations Staff** – Our staff has learned the importance of engaging the operations staff throughout the project planning and design phase to develop improvements that integrate long-term operation needs, provide safe and reasonable access to mechanical equipment, and leverage the utility owner’s existing standard operating procedures.
- **Identification of Public Impacts** – We understand that the community is invested in construction is potentially disruptive to residents and visitors; hence, it is critical to develop comprehensive designs that allow F&L to highlight temporary impacts that require concise communication with the public.

The following individual project descriptions highlight the breadth of F&L’s experience. We approach each project holistically – fully understanding the goals of the project and the Master Plan, validating the capacity and conditions deficiencies identified, assessing the structural, maintenance, and regulatory risks, and collaborating with City and County entities on the impacts during and post-construction. We incorporate all these data points to develop cost-effective solutions addressing capital and maintenance issues while ensuring compliance with regulatory requirements.

PROJECT NAME & LOCATION	CONTACT	YEAR
City of San Carlos Pulgas Creek Watershed Study & Management Plan San Carlos, California	Grace Le, P.E., City Engineer (650) 802-4201 GLe@cityofsancarlos.org	2023 – Present
<p>The Pulgas Creek Watershed drains approximately 3.5 square miles within the City of San Carlos, portions of Belmont, and unincorporated San Mateo County. With two forks originating east of an open space preserve flowing through the City’s downtown area, a large portion of the channel is routed through multiple culverts upstream before passing under Highway 101 through a culvert lined with levees (protecting adjacent areas from tidal flooding) and flowing into Smith Slough. During storm-related events, the urbanized watershed’s 56 miles of pipelines and channels experience blockages, stormwater capacity, and overtopping creeks that flood roads, trails, and infrastructure. In addition, with a large portion of the upper watershed flowing through City Parks and public and private open spaces, the community requested restoration of the area to access natural resources, trails, and gathering spaces. Through the City’s East Side Innovation District Vision Plan and a private development project, opportunities to integrate a multi-use trail became integral to critical flood management strategies – potentially reducing the risk of residential damage and providing multi-beneficial green infrastructure solutions.</p> <p>F&L is creating a comprehensive watershed plan by developing a multi-pronged strategic approach delivering solutions that include restoring natural processes, identifying intentional overbank flooding locations, resilient climate change designs, strategic permitting programs, trail and open space enhancement opportunities, and public education. F&L is identifying several key items for Plan development to present a range of location-based, multi-beneficial solutions the City can advance as part of future Capital Improvement Projects. These approaches will provide risk reduction strategies to address flooding and sea level rise while meeting regulatory requirements, enhancing public safety, and integrating community benefits.</p> <ul style="list-style-type: none"> • Project management, including coordination, monitoring, and administration • Hydrology and hydraulic modeling, including review of existing Storm Drain Master Plan, and stream flow monitoring to monitor water levels during storm events • Topographic surveys at specific and strategic locations to validate key features in the hydrologic model and critical terrain for expected floodplain inundation and retention processes • Development of a public outreach strategy and outreach plan to keep community engaged and educated • Development of solutions, including alternative analysis through a goal-based risk assessment for potential flood mitigation solutions, sea level rise resiliency enhancements, improving public access opportunities, and documenting resource agency permitting requirements • Providing technical studies, stakeholder feedback, and leveraging existing City efforts to provide a comprehensive strategy to advance improvements and enhancements that deliver multi-beneficial projects 		
City of East Palo Alto Water System Design & Management East Palo Alto, California	Humza Javed, P.E., City Engineer (650) 853-3130 hjaved@cityofepa.org	2015 – Present
<p>The City of East Palo Alto is experiencing unprecedented residential and mixed-use development growth. In 2016, it could not approve planned developments because the City could not demonstrate through the development of Water Supply Assessments in compliance with Senate Bill 610 that there was sufficient water supply to support proposed developments. F&L provides project management services, including assisting the Director of Public Works and City Engineer in managing the water system contract operator, evaluating the existing distribution system’s condition, and developing a phased capital improvement program. In addition, F&L is responsible for managing the Integrated Water Resources Management Plan (IWRMP) grant program that the City relied on to fund the design and construction of two groundwater resource establishment projects. F&L assists City staff with preparing staff reports, developing project budgets, and leading City Council presentations.</p> <p>F&L has also completed the design of a new 5,000 LF 12-inch water transmission main and 1,500 LF 16-inch transmission main, both critical to improving fire flow throughout the distribution system. F&L worked closely with the San Francisco Public Utilities Commission (SFPUC) to upgrade one of the three existing SFPUC turnouts (while also identifying the need and location for a fourth), providing East Palo Alto’s water supply as part of the transmission main design efforts. F&L utilizes East Palo Alto’s existing hydraulic model to evaluate potential routing options, predict the likely pressure and flow improvements with the upgraded SFPUC turnout, and develop opinions of probable cost for each alternative considered. F&L is developing a phased improvement program to allow East Palo Alto to implement a series of focused projects that will immediately improve available fire flow adjacent to several key redevelopment projects, including much-needed affordable housing. The project includes:</p> <ul style="list-style-type: none"> • Project and Construction Management of the Gloria Way Well Treatment Plant to complete the design, secure State Water Resources Control Board (SWRCB) Division of Drinking Water (DDW) approval, and oversee construction and startup of the groundwater treatment system. • Develop solutions to address existing operational deficiencies while expanding the existing distribution system to meet the projected build-out conditions presented in the Vista 2035 General Plan. • Prepare clear construction documents to streamline permitting, cost estimation efforts, and construction. • Hydraulic modeling to develop improvement projects to improve available fire flow, address water age issues, and conform to the DWW-issued Corrective Action Plan. • Coordination with the SFPUC to upgrade existing turnouts and develop a fourth turnout to support ongoing development. 		

PROJECT NAME & LOCATION	CONTACT	YEAR
Treasure Island Redevelopment San Francisco, California	Robert Mokry, Director of Land Development, Lennar Urban (707) 373-7639 Robert.mokry@lennar.com	2015 – Present
<p>Urban redevelopment that incorporates natural and engineering solutions to provide resiliency and protection from future sea level rise.</p> <ul style="list-style-type: none"> • Obtained all regulatory permits for the project, including an Individual Permit from the U.S. Army Corps of Engineers (Corps), Regional Water Quality Control Board (RWQCB) Water Quality Certification, NMFS consultation, and Bay Conservation and Development Commission (BCDC) Major Permit. • This work included negotiation with BCDC of the total area of public access that would be designated and required by the permit, developing content for the project’s Sea Level Rise Adaptive Management Plan, and coordinating mitigation with the California Coastal Conservancy. • Conducted required biological surveys for permit compliance during construction, including rare plant surveys, pre-construction nesting bird surveys, bat surveys, marine mammal monitoring, and eelgrass surveys. • Develop infrastructure, including centralized stormwater treatment and stormwater outfalls that will adapt over time with anticipated sea level rise. 		
WBSD Sewer Main Line Replacement and FERRF Levee Improvements Miscellaneous Areas, California	Sergio Ramirez, General Manager (650) 321-0384 SRamirez@westbaysanitary.org	2020 – Present
<p>F&L has designed for the replacement of sanitary sewer facilities in various areas throughout the District for over 25 years, including facilities within the Town of Atherton. For these projects in Atherton, F&L coordinated with both the Town and Caltrans. Improve protection for critical facility through implementation of shoreline stabilization techniques that restore access, provide resiliency for future sea level rise, and improve natural habitat.</p> <ul style="list-style-type: none"> • WBSD owns and maintains a Flow Equalization and Resource Recovery Facility (FERRF) for storing and retransmitting wastewater as part of the wastewater collection system. Located adjacent to the SF Bay, perimeter maintenance access roads around this facility needed an upgrade to protect the facility from King Tides close to breaching onto the site. • Provided design and permitting, coordinating efforts with various stakeholders, including Prime effort to have the levee and RWFP permitted under one CEQA Process, preliminary design of levee improvements, including grading, drainage, and utilities, coordination of efforts with Environmental, Structural, Geotechnical, and RWFP team, and assistance with grant funding applications. • Improvements to the maintenance roads included sheetpiles, raising the grades above the 100-year FEMA Floodplain, and accounting for sea level rise to keep the facility operating even during the 100-year storm event to help safeguard against SSOs onsite. The project also included a living shoreline to stabilize the northeastern edge, restore the shoreline, increase resiliency to rising sea levels, and create habitat. 		
City of Burlingame Neighborhood Storm Drain Project (13 Phases) Burlingame, California	Victor Voong, PW/ENG, Senior Civil Engineer (650)588-7242 vvoong@burlingame.org	2009 – 2023
<p>Implement local improvement strategies that address regular nuisance flooding that also contribute to more regional flooding and water quality issues. Scope items included:</p> <ul style="list-style-type: none"> • Storm Drainage Flooding Design – El Camino Real • Topographic surveys and grading, drainage, and pipeline hydraulic capacity studies • Demolition and erosion control plans • Infrastructure improvements and replacement of failing infrastructure, including the removal and replacement of curb and gutter to correct drainage issues • Addition of new catch basins and collection system piping to convey storm flows • Rehabilitation of existing collection system utility cure-in-place pipe methods • Support public outreach to notify residents of the identified problem and proposed solution 		

PROJECT NAME & LOCATION	CONTACT	YEAR
Stanford University Water Main Replacement Program Stanford, California	Steve Bui, Director, Civil Projects (415) 609-2099 stevebui@stanford.edu	2019 – Present
<p>F&L has supported numerous projects under Stanford’s Water System Capital Improvement Program, including designing and constructing water transmission and distribution main replacement throughout the Stanford campus. It includes coordination with multiple jurisdictions, including the City of Palo Alto and Santa Clara County. Projects include Sand Hill Road Main Replacement, Campus Drive Main Replacement, Lomita Main Replacement, and Lomita/Mayfield Main Replacement. Scope includes:</p> <ul style="list-style-type: none"> • Project management and QA/QC throughout the project duration • Alternative alignment studies to minimize potential for conflict with existing Stanford utilities, City of Palo Alto utilities, PG&E primary gas transmission mains, and other underground utilities. • Constructability analysis including collaboration with operations staff to develop construction phasing plan to minimize water shutdowns and notify critical users including medical and laboratory facilities. • Prepare encroachment permit application and coordinate review and approval with both the City of Palo Alto and Santa Clara County. • Perform studies to identify potential alignment constraints that will require non-potable pipeline seperation waiver from the Division of Drinking Water. • Support public outreach to notify students, faculty, and employees of temporary road closures, water shutdowns, and other construction information. • Engineering services during construction including field observation, RFI responses, change order review, and in-field collaboration with the construction contractor to resolve unanticipated field conditions. 		
Menlo Park Annual Water Main Replacement Menlo Park, California	Pam Lowe, Senior Civil Engineer (650) 330-6745 phlowe@menlopark.gov	2018 – Present
<ul style="list-style-type: none"> • Provided detailed topographic survey of Project area to serve as the basis of design for the proposed improvements, including 20 feet beyond the Project limits to capture visible public and private improvements, driveways, and utilities, including existing U.S.A. markings within street right of ways, horizontal control and vertical control based on City Benchmarks and GPS control, and all surface expressions of existing water line utility lines and electrical/joint trench obtained from available maps field verified. Survey also included estimated property lines and right-of-way (ROW) lines as shown on available city or county-provided maps. • Engaged specialty subconsultants to perform non-destructive utility investigation and potholing, potholing activities. The field utility studies and investigations focused on verifying key components of the existing water pipeline existing location at the project limits to inform the tie-in design for the new water main and identify the location of the electrical/communication infrastructure along the entirety of the project limits. • Developed CDs for 50%, 90%, and 100% completed improvement plans and technical specifications. • Provided Bid support throughout the bid process, including assisting the City in responding to questions and preparing addendums. • Provided engineering services during construction, including preparing RFIs, reviewing submittals, performing site visits, evaluating and drafting responses to contractor’s change order requests, and preparing record drawings based on contractor-provided red lines. 		

4 WORK PLAN

The principle focus of this Work Plan is to generally effect the applicable recommendations of the 2015 Townwide Drainage Study and the 2018 El Camino Real Drainage Memorandum along with the concurrent project impacts of the 82 Bicycle Improvement Project, Selby Lane Bicycle Lanes, and the El Camino Real Complete Streets gap Closure programs. To reduce flooding along the El Camino Real, the reference documents suggest improving existing infrastructure to the extent noted and installing supplemental drainage that can convey surface flooding to the Atherton Channel via a suitable pump station. These actions would help to maximize public safety and increase compliance with the Town's Drainage Manual - becoming even more important with the bicycle and Complete Streets efforts.

4.1 Proposed Scope and Deliverables

TASK 1: PROJECT MANAGEMENT AND MEETINGS

F&L will provide overall project management services, including:

- Prepare for and facilitate a kickoff meeting, including preparing agenda and minutes to discuss project goals, scope, schedule, and any issues that would need clarification prior to the start of work.
- Represent the Town, with the Town's input and approval, in communications with other external agencies as needed to deliver the Project.
- Prepare and submit monthly progress reports, including a summary of completed activities, proposed activities for next month, issues affecting project delivery, scope, schedule, or budget, consultants actions to mitigate issues, summary of project decisions, updated project schedule, budget status, percent of work complete and cost to complete remaining work, and other important project information.
- Prepare and submit a baseline schedule and monthly progress schedules.
- Prepare for and facilitate bi-weekly progress review meetings in addition to periodic design meetings to keep the Town staff and stakeholders apprised of progress toward critical submittals identified in subsequent tasks.

Task 1 Deliverables

- Kickoff meeting agenda and minutes
- Baseline schedule
- Monthly project progress report and schedule submitted with invoice
- Biweekly Progress Meeting agendas and minutes
- Periodic Design Meetings with Town Staff and stakeholders

TASK 2: REVIEW/COLLECT EXISTING CONDITIONS, DOCUMENTATION, AND INFORMATION

Determine the extent of data available to support anticipated technical evaluation, identify data gaps that will be resolved as part of subsequent tasks, and document the F&L Team's understanding of existing conditions. The F&L Team will provide the following tasks:

- Review of Town-provided documents, including:
 - Operating and maintenance records,
 - Existing utilities Geographic Information System (GIS) files,
 - Existing local utility as-built documents,

- Existing reference documents, including reports and technical memoranda,
- Review of other publicly available documents, including:
 - Any Caltrans drainage documents and as-builts
 - Applicable regional and Townwide permits include, but are not limited to MRP 3.0
 - Hydrologic and environmental data, criteria, and relevant information from County, FEMA maps, latest USGS maps, NOAA, and other public/agency sources.

The F&L team will prepare a brief memorandum presenting results of data review, including confirming existing conditions, identifying data to be collected, and the next steps. The memorandum is not intended to be a technical deliverable for Town review, but will be integrated into the overall description of existing conditions, outline the data gaps, and serve to inform the PS&E process that will be addressed as part of subsequent tasks. F&L will conduct a supplemental survey necessary to develop topographic and base maps as part of the PS&E effort and to validate any conflicting information that may exist regarding boundaries, drainage patterns, easements, and rights-of-way.

Task 2 Deliverables

- Existing Data Review, Data Gaps Identification, and Next Steps Memorandum
- Memorandum describing the extents of the supplemental survey efforts

TASK 3: ENVIRONMENTAL DOCUMENTATION

F&L will use its expertise with the CEQA process to prepare and submit the environmental documentation necessary to obtain environmental clearances for the project and advise potential contractors of any mitigation requirements. Any impacts to the downstream stormwater conveyances will be calculated to the extent required by the permitting agencies to support the proposed design modifications of the Town storm drain system and demonstrate acceptable downstream conditions.

Since surface stormwater flows in the Town along the El Camino Real corridor eventually meet at the same discharge point into San Francisco Bay, routing flows from Stockbridge/Selby areas to the Atherton Channel may have minimal overall hydraulic impacts compared to the realized benefits of reduced flooding in other areas.

Specialized studies for biological evaluations, habitat assessment, 401 and 404 permitting, any endangered or threatened species surveys, and nesting bird or bat surveys will be part of an allowance for direction from Town staff on an as-needed basis of the PS&E and construction efforts.

Task 3 Deliverables

- CEQA documentation and supporting hydraulic calculations.
- Allowance for specialized studies as needed and approved by Town staff.

TASK 4: PROJECT DESIGN AND PERMITTING

Once Tasks 2 and 3 have been completed, F&L will develop conceptual, 65%, 90%, and Final PS&E documents in conformance with the Town Ordinances, Building Code, and in compliance with the Maintenance and Use Agreement. Comments from Town staff shall be incorporated into subsequent deliverables and documented through a comment review matrix. Town staff turnaround to be a maximum of 30 days from document submittals. The 90% plans will be used to apply for any required building permits and for final approval by



Caltrans, if required. Comments from the 90% review will be incorporated into a Final PS&E set ready for bid and construction. The final PS&E documents will be provided in editable electronic format as well as PDF and hard copies. PDF and hard copies will be stamped for bidding and construction purposes.

Task 4 Deliverables

- Conceptual design
- Conceptual design review comments
- 65% Design plans and specifications
- 65% Design review comments
- 90% Design plans, specifications, and opinion of probable cost
- 90% Design review comments
- Final Design PS&E bid and construction set

TASK 5: COORDINATE WITH OTHER JURISDICTIONS

Concurrent with the Task 4 design effort, F&L will coordinate with other jurisdictions to discuss any issues that may arise from modifications to the Town storm drain infrastructure or the discharge of stormwater into downstream facilities. Other jurisdictions along the El Camino Real corridor are likely to include Caltrans, County of San Mateo, City of Redwood City, SamTrans, PG&E, and regulatory agencies. Interaction with these various agencies may be perfunctory notification of design documents, technical memoranda, and/or encroachment or will serve applications. F&L will conduct coordination with other jurisdictions in proportion to the effort required to complete a set of construction documents and will draw from an allowance as coordinated with Town staff.

Task 5 Deliverables

- Contact memoranda to Other Jurisdictions
- Will Serve requests or encroachment agreements
- Technical memoranda for support of hydraulic impacts of proposed design
- CEQA coordination requests

TASK 6: BID SUPPORT

The F&L team will prepare responses to questions from Contractors regarding advertised plans and specifications and prepare addendums as needed. Bid support shall include preparation and review of the bid schedule and technical support requested by Town staff in determining the most responsive bid.

Task 6 Deliverables

- Response to questions from Contractors
- Bid schedule preparation and reiew

TASK 7: ATTEND PUBLIC MEETINGS

The F&L team will be available to attend public meetings regarding the project, including the Town Council and project stakeholder gatherings to review the conceptual and final designs. For the purpose of this proposal, up to three (3) such meeting will be budgeted.

Task 7 Deliverables

- F&L to attend up to three (3) public meetings to the Town council or project stakeholder gatherings.

5 KEY STAFF

F&L currently has 25 engineers, including ten professional engineers. For the Town’s project, F&L is assigning the following key staff. In addition, our team of 18 project engineers will support Mr. Laureta and Mr. Biland in keeping the project moving forward.

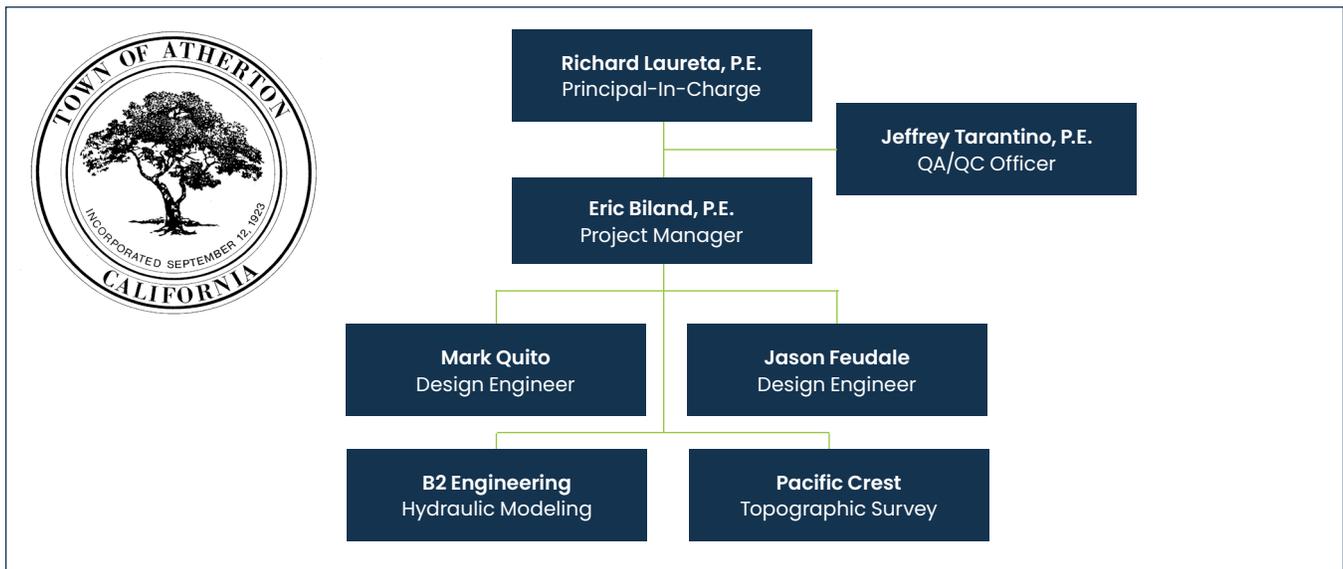
F&L will provide all services from our Cupertino office with additional support from our San Francisco, Oakland, and Novato offices, as needed. The project management team identified in the following section will be supported by our project engineering staff of 25 to provide technical insight as required.

Our staff understands the team’s critical role in developing and delivering infrastructure plans that incorporate insight from Town engineering and operation staff throughout the planning and development process. Due to F&L’s proximity to Atherton, we can be actively involved to ensure the Town’s needs are met. The City will find in F&L a true project partner that understands the multiple drivers that must be considered when developing public works improvement projects.

To maintain a concise proposal, we have included all team member’s resumes in the appendix.

5.1 Key Personnel & Roles

- **Richard Laureta, P.E.**, will serve as Principal-In-Charge.
- **Jeffrey Tarantino, P.E.**, will lead our QA/QC program.
- **Eric Biland, P.E.**, will be the Project Manager supporting Richard and the rest of the technical team.
- **Jason Feudale** will serve as a Design Engineer
- **Mark Quito** will serve as a Design Engineer





5.2 Key Personnel Biographies

Richard Laureta, P.E., President , Principal-In-Charge

In his 30 years of professional experience, he has participated in the design, project management, and construction coordination of city, county, state, and federal rehabilitation and private development projects. He has extensive experience helping to manage sanitary districts, including District Engineering services for West Bay Sanitary District, Silicon Valley Clean Water, and East Palo Alto Sanitary District, giving him detailed knowledge of regulatory and industry standards. Richard will be the City's primary point of contact, providing leadership and direction to our team members.

Jeffrey J. Tarantino, P.E., Executive Vice President, QA/QC Officer

Jeffrey will be the QA/QC Officer supporting Richard Laureta to ensure that all technical deliverables are properly reviewed and meet all requirements for each task order. Jeffrey has led the planning, design, and construction of various public agency utility projects, including stormwater, potable water, and wastewater facilities. He has served as the engineer of record on numerous projects focused on flood control, water supply and distribution, water reuse and distribution, groundwater extraction and treatment systems, and water quality. He supports multiple communities' water system operations and improvement projects - overseeing the design of water system improvement projects, including performing hydraulic modeling for the development of potential capital improvements, assisting utility owners with efforts to establish water sources and operating permits with the State Water Resources Control Board's Division of Drinking Water and assisting with the management of grant funding reporting and governance. Furthermore, he serves as the primary point of contact with permitting and environmental resources agencies on behalf of clients to facilitate open dialogue. He assists clients in bridging technical and non-technical challenges to deliver multi-beneficial projects within budget and on schedule.

Eric Biland, P.E., QSD/P, LEED AP, Senior Project Manager, Project Manager

Eric joined F&L in 2023 as a Senior Project Manager and is an experienced water resource manager with more than 22 years of progressive experience in designing and planning for various stormwater projects. He worked on the original energy dissipator and sloop stabilization efforts of the Atherton Channel drainage system along with the extensive hydraulic reports and environmental permitting. Eric has also designed a number of stormwater pump stations involving Caltrans, UPRR, PG&E, CARB, and other heavily regulated jurisdictions. He has served on the State Water Board Alternative Treatment Methods task force for water quality assessment. He brings decades of experience in floodplain management and producing Master Planning documents, reports, computer models, and EIR utility sections for communities throughout the Peninsula.

Jason Feudale, Construction & Engineering Services Manager, Design Engineer

With over 23 years of experience, Jason has broad experience in municipal and construction engineering. The experience he has gained in grading, drainage, erosion control, and utility design and inspection allows Jason to provide a high level of independent and efficient production of civil engineering construction documents. He has also gained a great deal of experience in construction inspection, and serves as the construction inspector for the West Bay Sanitary District and Erosion Control Inspector for the Town of Portola Valley.



Mark Quito, Associate Engineer, Design Engineer

Mark has over 13 years of experience and a broad background in civil engineering design, including infrastructure design and hydraulics/hydrology modeling. Throughout his career, he has participated in numerous projects and has been responsible for all aspects of the project, including design, development of construction drawings and technical specifications, project management, and technical support during construction, as well as coordination of private sector engineering projects, as well as city, county, and state projects. His experience and dedication to the profession allow him to contribute to the success of diverse engineering projects. His extensive experience with pump station rehabilitation includes West Bay Sanitary District's Willow and Stowe Pump Stations, Foster City's EMID Emerging Generator Repair, and Las Gallinas Sanitary District's Miscellaneous Pump Stations that encompassed a lift-station rehabilitation.

5.3 Subconsultants

F&L is also partnering with two key subconsultant partners to provide the Town with a team of technical experts with the correct experience to support the Town's goals of developing a robust storm drain system that provides short and long-term flood management, maximizes public safety, and is in coordination with improvements to other systems.

Our proposed key staff members have worked collaboratively together to assist clients with similar multi-beneficial solutions, and, in some cases, the individual team members have worked together for nearly two decades. Leveraging technical expertise and long-term professional relationships will allow the F&L team to engage the Town in developing a project that balances technical needs by integrating strategic engineering solutions.

B2 ENGINEERING

B2 Engineering (B2) is a general engineering company specializing in the design of practical and constructible projects. Successfully working in and around the construction industry for more than 15 years has allowed the team to provide creative solutions to some of the most challenging design constraints. The principals of B2 bring together an extensive background in the planning, advanced analysis, and design of comprehensive commercial, residential, and stormwater management projects. The founders' combined and complementary experience comprises planning, traditional and state-of-the-art storm drain analyses, engineering design, and design-build projects. Each founding team member has made a name for themselves in the local developing market, working for public and private clientele.

PACIFIC CREST, INC.

Since 2006, Curt Chappell, President of Pacific Crest Surveying, has provided professional land and engineering surveying for the design and construction of roads, highways and bridges, drainage, and sewage facilities.



6 REFERENCES

We believe that our project references will confirm F&L's responsiveness and technical expertise comprise the engineering and construction perspectives needed for the Town's project. This background will allow us to collaborate with the Town to develop prioritized solutions coordinated with its other improvement projects on time and within budget.

As requested in the RFP, we invite the City to contact the references listed below who can speak to our ability to design and manage stormwater services.

Client	Reference
WEST BAY SANITARY DISTRICT	Sergio Ramirez, General Manager 500 Laurel St. Meno Park, CA 94025 (650) 522-7322 SRamirez@westbaysanitary.org
CITY OF SAN MATEO	Stephanie Pinon, P.E., Senior Engineer 330 W. 20th Ave. San Mateo, CA 94403 (650) 437-3131 spinon@cityofsanmateo.org
CITY OF MENLO PARK	Pam Lowe, Senior Civil Engineer 701 Laurel St. Menlo Park, CA 94025 (650) 330-6745 plowe@menlopark.gov
CITY OF PACIFICA	Louis Sun, P.E., Deputy Director Public Works, Wastewater 540 Crespi Dr. Pacifica, CA 94044 (650) 288-6273 lsun@pacifica.gov
CITY OF BURLINGAME	Victor Voong, PW/ENG, Senior Civil Engineer City of Burlingame 501 Primrose Rd., Burlingame, CA 94010 (650)588-7242 vvoong@burlingame.org



7 PROJECT SCHEDULE

The following project time schedule is based on working calendar days from receipt of Notice to Proceed. Project management runs continuously throughout the F&L effort. Supplemental allowance for specialized studies may have 180 day variability depending on environmental study requirements, species, impact, etc.

F&L estimates a 360 day schedule from NTP through Task 6 Bidding Support.

Tasks 2, 3, 4, and 6 are highlighted below as they will drive the schedule. Tasks 1, 5, and 7 will run concurrently with other tasks.

Days are cumulative unless designated concurrent, with the following assumptions:

Calendar Days	Actions
45 Days	Task 2 Review and evaluate existing data
60 Days	Supplemental survey runs concurrently with Task 2 review
120 Days	Task 3 Environmental documentation runs concurrently with Task 2
270 Days	Task 4 from end of Task 2 with 30 day Town Staff review periods
45 Days	Task 6 Bidding Support

8 LITIGATION

The F&L team confirms it holds no conflicts of interest that would prevent in any manner or degree its ability to perform all work outlined in the RFP.





9 DISCLOSURE

F&L confirms that it holds no past, ongoing, or potential work conflicts of interest that would exclude the team from performing work on the Town's project. Furthermore, the F&L team members are not performing work for any jurisdiction or substantial property owner/developer within a five mile radius of the Town of Atherton.

10 PROFESSIONAL SERVICES AGREEMENT

F&L has reviewed the Town's Standard Professional Services Agreement, including insurance requirements, and accepts its terms as-is, without any modifications.





11 FEE INFORMATION

Following is an outline of the level of effort F&L anticipates for the Town's project. As requested in the RFP, F&L has submitted a separate sealed cost proposal.

**EFFORT SCHEDULE
BUDGET ESTIMATE FOR PROFESSIONAL ENGINEERING DESIGN SERVICES FOR THE
El Camino Real Stormwater and Drainage Improvements
Town of Atherton, California**

TASKS	ESTIMATED LABOR (Hours) (1)											OTHER DIRECT COSTS		
	F&L					Pacific Crest Survey				B2	UNIT	QNTY		
	Clerical	Staff Engineer I	Two Main Survey Crew	Staff Engineer IV	Senior Project Manager	Principal	Principal	Two Man Survey Crew	Technician	Clerical			Principal	Clerical
Task 1: Project Management and Coordination														
Task 1.1 Prepare monthly invoices and progress reports	16				12									
Task 1.2 Kick off Meeting	2	4		4	4	1								
Task 1.3 General Project Management, Meetings		25		25	25	4								
Task 1.4 Periodic Design Meetings with Town Staff and stakeholders		12		12	8									
Subtotal Labor Hours - Task 1	18	41		41	49	5								Estimated Cost - Task 1
Task 2: Site Investigation														
Task 2.1 Review of Town-provided documents	4	24		12	8		6				8			
Task 2.2 Review of other publicly available documents		18		12	4									
Task 2.3 Existing data memorandum			24	8	2		4			2				
Task 2.4 Supplemental survey allowance				8	4		24	40	48				ls	1
Task 2.5 Potholing allowance				4	2		4		8				ls	1
Task 2.6 Boring allowance				2	1		2		4				ls	1
Task 2.7 Internal Review		24		4	4	2					4			
Subtotal Labor Hours - Task 2	4	66	24	50	25	2	40	40	60	2	12			Estimated Cost - Task 2
Task 3: Environmental Documentation														
Task 3.1 CEQA Documentation		8		8	2						8			
Task 3.2 Supporting hydraulic calculations		24		16	12						24	4		
Task 3.8 Specialized studies allowance (4)		16		24	12	2					16		ls	1
Subtotal Labor Hours - Task 3		48		48	26	2					48	4		Estimated Cost - Task 3
Task 4: Project Design and Permitting														
Task 4.1 Conceptual design		48		36	24	2								
Task 4.2 Conceptual design review comments		8		4	4						4			
Task 4.3 65% Design plans and specifications		160		96	40	2					24			
Task 4.4 65% Design review comments		16		8	8						2			
Task 4.5 90% Design plans, specifications, and opinion of probable cost		120		96	36	1					4			
Task 4.6 90% review comments		8		4	2									
Task 4.7 Final Design PS&E bid and construction set	4	40		40	16	2								
Subtotal Labor Hours - Task 4	4	400		284	130	7					34			Estimated Cost - Task 4
Task 5: Coordination with Other Jurisdictions														
Task 5.1 Contact memoranda to Other Jurisdictions	2	8		8	4									
Task 5.2 Will Serve requests or encroachment agreements		16		12	4									
Task 5.3 Technical memoranda for support of hydraulic impacts		48		24	16						24			
Task 5.4 CEQA coordination requests		16		8	4									
Subtotal Labor Hours - Task 5	2	88		52	28						24			Estimated Cost - Task 5
Task 6: Bidding Support														
Task 6.1 Bid schedule preparation and review		36		12	4									
Task 6.2 Response to questions from Contractors				16	8						4			
Subtotal Labor Hours - Task 6		36		28	12						4			Estimated Cost - Task 6
Task 7: Attend Public Meetings														
Task 7.1 Attend up to three (3) public meetings		24		12	12									
Subtotal Labor Hours - Task 7		24		12	12									Estimated Cost - Task 7
Total Labor Hours	28	703	24	515	282	16	40	40	60	2	122	4		Total Estimated Cost

Total Labor Hours - F&L Staff = 1568
 Total Labor Hours - Pacific Crest = 142
 Total Labor Hours - B2 = 134
 Total Labor Hours F&L + Subs = 1844

Notes to Table:

- (1) Billing rates for subconsultants includes 10% markup.
- (2) Estimated costs are rounded to the nearest \$100.
- (3) F&L has not included markup on second tier subconsultants to avoid double markup.
- (4) Specialized studies include: biological evaluations, habitat assessment, 401 and 404 permitting, endangered or threatened species surveys



Appendix



Richard J. Laureta, P.E.

PRESIDENT

Rich Laureta has over 30 years of experience managing, planning, designing, and constructing various private and public agency projects, including storm drains, striping/pavement, potable water, wastewater, and facilities. He has performed as Engineer of Record for small, localized improvement projects and multidisciplinary teams for large infrastructure development projects. In addition to redevelopment work, Mr. Laureta has significant program management experience providing services for public agency capital improvement projects. He has designed the last fourteen storm drain projects for the City of Burlingame's Storm Drain Program and was part of large infrastructure projects, such as SVCW's RESCU program.

He has extensive experience with planning, designing, and constructing various infrastructure improvement projects, including managing the design and CEQA process for work in highly sensitive areas.

PROJECTS

District Engineer/Public Works

City of Burlingame Neighborhood Storm Drain Capital Improvement Project; City of San Bruno Spyllass Hill Storm Drain Project; City of San Mateo Columbia Dr./Crystal Springs Rd. Storm Drain Improvements; West Bay Sanitary District and East Palo Alto Sanitary District, District Engineer; Silicon Valley Clean Water, Conveyance System; City of Pacifica Wet Weather Flow Equalization Basin Project; University of California, San Francisco, Misc. Projects; City of San Leandro, Wastewater Collection Systems

Infrastructure Master Planning & Design

Treasure Island, Stages 2 & 3; University of California, San Francisco; Mission Bay – Residential Area, Park NP 1-2, Park NP 3-5, & Park P16 projects, Mission Bay Drive & Circle Project; Blocks 29 - 32 & 33 - 34 Utility Master Plan, South of Channel (Chase Center); Long Range Development Plan

Roadway & Infrastructure

Naval Training Center Drainage Design, San Diego; Rankin Pump Station Design, San Francisco; Ralston Avenue Grade Separation, Belmont; Special Weapons Area Pump Station, NAS North Island; Sutro Tower Improvements & Pier 45 Seismic Retrofit, San Francisco; Guadalupe River Retaining Walls, San Jose Bollman; Water Treatment Plant Expansion, Concord

Office, Commercial & Residential

Britannia Oyster Point, South San Francisco; Hercules Properties PUD, Hercules; McGrath Rentcorp Offices, Livermore; Children's Center, NAS North Island, San Diego; Marriott Courtyard & Bay West Cove, So. San Francisco; Channel Street (SF) Partners, One Mission Bay; BOSA, Arden, San Francisco



EDUCATION

- Bachelor of Science in Civil Engineering
- California Polytechnic State University, San Luis Obispo, CA

CONTACT

510-937-2310
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150 Executive Park Blvd., Ste 4200
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KEY EXPERIENCE

- Principal-In-Charge for UCSF Mission Bay Campus Long Range Development Plan
- Served as the District Engineer for the East Palo Alto Sanitary District from 2010 - 2017
- Project Manager for all West Bay Sanitary District projects
- Regularly engaged by numerous public agencies to provide peer review services.



Jeffrey J. Tarantino, P.E

EXECUTIVE VICE PRESIDENT

Jeff Tarantino has an extensive civil engineering design and construction background developed during his 24 years of civil and environmental work experience. He has served as project manager and QA/QC on numerous program management, planning, design, permitting, and construction management projects, with a focus on civil site development, water supply treatment and distribution, wastewater treatment and collection, water reuse treatment and distribution, flood control, groundwater extraction and treatment systems, and water quality.

Jeff serves as the primary point of contact with permitting and environmental resources agencies on behalf of clients to facilitate open dialogue with the agencies. Jeff has demonstrated a unique ability to assist clients in bridging technical and non-technical challenges to deliver multi-beneficial projects within budget and on schedule.

PROJECTS

Infrastructure Design & Planning

City of Pacifica 2022 Storm Drainage Master Plan Update; San Carlos Pulgas Creek Watershed Study & Management Plan; City of Burlingame Neighborhood Storm Drain Capital Improvement Program; Wastewater Collection for the City of Pacifica; SFPUC Treasure Island Water Resource Recovery Facility; Water Distribution for the City of Burlingame, Town of Hillsborough, Valley of the Moon Water District, & Menlo Park; Water Treatment, City of Calistoga; City of San Mateo, City of Los Altos, & Town of Los Altos.

Program & Project Management

Monterey County Water Resources Agency, Water Supply; City of Lathrop, Water Reuse; City of Burlingame, Stormwater; City of East Palo Alto, Water Distribution; Santa Clara Valley Water District, Flood Control; City of Tracy, Water Supply; City of San Mateo, Street Rehabilitation

Infrastructure Construction Management

City of Burlingame, Water Storage; Coastside County Water District & City of Calistoga, Water Treatment; Sewer Authority Mid-Coastside, Wastewater Storage; Town of Los Altos Hills, Wastewater Collection; City of East Palo Alto Groundwater Treatment

Development & Campus

UCSF: Minnesota Street Student House; Campus Wide Technical Criteria Development; Weill Institute for Neuroscience, Zuckerberg San Francisco General Hospital's UCSF Research & Academic Building; UC Berkeley, Berkeley Way Project; 100 Channel Street (SF) Owner, One Mission Bay; Uber Headquarters, 1455 & 1515 Third Street; TNDC Candlestick Block 10A; Mission Bay: Park P2-P8; Park P3; TNDC, 681 Florida Street



EDUCATION

- Bachelor of Science in Civil Engineering
- Santa Clara University, Santa Clara, CA

CONTACT

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KEY EXPERIENCE

- Experienced with planning, design, and construction of infrastructure improvement projects.
- Project Manager for several utility improvement projects throughout San Mateo County including the City of San Mateo.
- Project Manager Pedro Point Sanitary Sewer Rehabilitation and Replacement Project that was selected for the APWA & ASCE Project of Year.



Eric Biland, P.E., QSD/P, QISP

SENIOR PROJECT MANAGER

Eric Biland is an experienced water resource manager with over 21 years of experience. His engineering and construction practices background provides clients with technical expertise informed by practical experience in stormwater, sanitary sewer, potable water systems, FEMA floodplain hydrology and hydraulic analyses, water quality issues, calculations, studies, and reports. CEQA/NEPA permitting experience includes regularly working with District representatives of the US Army Corps of Engineers, California Department of Fish and Wildlife, and the Regional Water Quality Control Board.

Eric has produced Master Planning documents, reports, computer models, and EIR utility sections for communities in San Francisco, Alameda, the Peninsula, and the Central Valley and currently serves on the East Bay Leadership Council Water & Environment Task Force and the San Francisco Bay Area MRP 3.0 Provision C.3.c Alternative Treatment Systems Workgroup.

PROJECTS

Infrastructure Design & Master Planning

BART HMC Stormwater Master Plan (WRECO/HDR); Gateway at Millbrae (WRECO); Port of Oakland 7th Street Grade Separation (WRECO); Treasure Island Master Plan Stormwater & Sanitary Sewer Pump Stations; Alameda FISC East Housing & Bayport Landing; Millbrae Bart Redevelopment; San Antonio Center, Mountain View; Moss Beach Highlands; Berryessa Bart Parking, Milpitas; Delta Coves, Bethel Island; Simms Metal Port-Based Recycling Center, Redwood City; City of Sunnyvale Storm System Trash Capture Devices; San Francisco Bay Area Rapid Transit District Hayward Maintenance Complex Phase 2 Study; Town of Atherton Belbrook Culvert Repair and Slope Stabilization Project

Creek Projects

Atherton Channel Creek Stabilization; Lands of Washwani FEMA Flood Control & ESHA Blue Line Channel Modifications, Los Altos; San Pablo Creek Bank Stabilization, Orinda; Sand Hille Road Bridgereasure Island Master Plan Stormwater & Sanitary Sewer

Parks & Recreation

Creekside Park Sensitive Habitat, Greenbrae; Alpine Hills Tennis Club, Portola Valley; Emerald Glen Park Water Feature, Dublin; Gate of Heaven Cemetery Multi-Use Lake System, Los Altos; Half Moon Bay Community Park Master Plan; Pinnacles National Monument Potable Water System Design



EDUCATION

- Bachelor of Science in Environmental Engineering
- San Jose State University

CONTACT

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20863 Stevens Creek Blvd.,
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Cupertino, CA 95014

KEY EXPERIENCE

- Expertise in stormwater, sanitary, potable and recycled water design
- Design and construction experience includes stormwater facilities, pump stations, treatment BMPs, and HMPs throughout municipal, commercial, industrial, and mixed-use projects
- Water Resources & Trash Capture Master Planning
- CEQA, LID, and sustainability
- Permitting - Fish & Game, Army Corps, Water Board, Wildlife Service, Threatened species work
- FEMA CLOMRs, Floodplain Management
- Riverine geomorphology, sea level rise, Federal & State clean water compliance



Jason Feudale

CONSTRUCTION & ENGINEERING SERVICES MANAGER

Mr. Feudale has over 23 years of experience in designing and constructing redevelopment and infrastructure replacement projects. His expertise in grading, drainage, erosion control, and utility design provides F&L with a high level of independent and efficient civil engineering construction document production. He has gained a great deal of experience in construction inspection that he applies to his design drawings to ensure a constructible project. In addition to his design experience, he has served as a construction inspector on multiple projects throughout the Bay Area.

A few engineering projects Jason has worked on for F&L, include:

PROJECTS

Infrastructure Planning & Design

Town of Los Altos Hills Engineering Analysis of Adobe Creek Sewer System; Stanford University Bowdin Storm Drain Replacement Project and Residential Housing Area Water Main Replacement Project; Mission Bay Development, San Francisco; Britannia Oyster Point, So San Francisco; Village Square Pump Station, Cervantes Road Grinder Pump Force Main, Portola Valley; Stowe Lane Pump Station, San Mateo County; Sewer Pipe line Replacement, Wicks & Blue Dolphin Pump Stations, Sewer Point Repair, San Leandro; Foothills Park Maintenance and Parking Lot, Palo Alto; Neighborhood Storm Drain Project # 1 & # 2, Burlingame; East Palo Alto Capital Improvement Project 2007 & 2008, 2010 Sanitary Sewer Improvement Project, Illinois Pump Station, East Palo Alto; West Bay Sanitary District Offices Building, Capital Improvement Project 2005 - 2008, 2009 - 2010, 2010 - 2011, 2011 - 2012, Belle Haven Phases I - III, Sausal Vista Sanitary Sewer Pump Station, Menlo Park; Stanford San Hill Water Design, City of Palo Alto

Construction Inspection

Kebcenell Residence Drive Way, Peak Lane Grinder Pump Force Main, Cervantes Road Grinder Pump Force Main, Westridge Drive Sewer Project, Portola Valley; Veterans Hospital Sewer, Royal Oak Sewer, Lane Woods Sewer, Heritage Oaks Sewer, Morgan Lane Sewer I & II, Pope Street Emergency Sewer Project, Menlo Park; Los Trancos Sewer Project, San Mateo County; 2016 Sanitary Sewer Capital Improvements, Town of Los Altos Hills; Delaware Trunk Sewer Rehabilitation, City of San Mateo



EDUCATION

- Bachelor of Science in Civil Engineering
- California State University, Chico

CONTACT

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KEY EXPERIENCE

- Construction inspector for West Bay Sanitary District, East Palo Alto Sanitary District, and erosion Control Inspector for the town of Portola Valley
- Areas of expertise include construction engineering, grading, drainage, erosion control, utility design, and construction inspection
- OSHA #7410 Managing Excavation Hazards; MUTCD Traffic Work Zone



Mark Quito

SENIOR PROJECT ENGINEER

Mr. Quito has a broad experience in civil engineering design, including infrastructure design and hydraulics/hydrology modeling. Throughout his career, Mr. Quito has participated in numerous projects and has been responsible for all aspects of the project, including design, development of construction drawings and technical specifications, project management, and technical support during construction, as well as coordination of private sector engineering projects, as well as city, county, and state projects. His experience and dedication to the profession allow him to contribute to the success of diverse engineering projects.

A few engineering projects Mark has worked on include:

PROJECTS

Infrastructure Planning & Design

Michelle Mutual Water Company Water Storage Tank Replacement; Foster City Emergency Generator Replacement; Las Gallinas Terra Linda Force Main Access Structure, and Miscellaneous Pump Station Improvement; UCSF Aldea Paving & Sidewalk; Hillsborough Resurfacing Project; San Mateo Waste Water Treatment Plant Survey Mapping; Pacifica Balboa Roadway Repair; Palo Alto Bayshore Water Meter Replacement; Daly City 5B Seismic Performance Improvements; Pacifica Wet Weather Equalization Basin; Los Angeles Regional Expo Phase 2; Folsom Hazel Avenue Widening Project; Cabrillo Bridge Widening; Elk Grove Southeast Connector; Fremont Bart Warm Springs Station; Lower Sacramento Road; Yolo Bypass Levee Modification; Sacramento Natomas Levee Improvement Project; San Francisco Doyle Drive Temporary Wastewater Pump Station Project; Cambria Pump Station

Commercial/Residential Planning & Design

San Carlos Technology Center Landscape Project; Mission Bay Mid-Block 9 Project; Alexandria Center for Life Science; Gladstone Institute Building Expansion; Block 9 Homeless Housing Development; 1700 Owens Entrance Way Redesign; 4th & Folsom Homeless Housing Development; Berkeley Tolman Hall Building; Uber Mission Bay Headquarters; San Diego Airport Rental Car Parking Structure



EDUCATION

- Bachelor of Science in Civil Engineering
- Sacramento State University

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KEY EXPERIENCE

- Infrastructure design and hydraulics/hydrology modeling
- Skilled at city, county, and state project coordination



Brittany Bair, PE

Site Design, Hydrology, Hydraulics, and Water Resources

Brittany Bair is a design engineer with a diverse background and an emphasis in water resources, site design and advanced stormwater modeling. Her experience includes civil improvement plans, site design, utility design, stormwater hydraulics and hydrology, low impact design, flood control analysis, Best Management Practice design, and water resource system analysis and design. She has successfully prepared conceptual design studies, final design plans, and construction support for various stormwater and land development projects. Mrs. Bair has expertise in various one-dimensional, two-dimensional, and linked 1D/2D models.

Project Experience

Metro Air Park, Sacramento, California. Water Resource engineer responsible for the 1-Dimensional modeling of the 1,320-acre commercial development park. This project took undeveloped farmland and created fully mitigated parcels through a regional drainage master plan. This plan successfully mitigated for the entire future project with a mixed-use concept for the regional drainage systems by routing the flows through a meandering golf course throughout the project.

Highway 65 Self Storage Design, Roseville, California. Principal engineer responsible for the environmental review, design review and final design of a 6-acre self-storage facility in Roseville, California. The project site included areas of 100-year flood plain, 404 & 1602 permit areas and a designated wetland, which all had constraints and design guidelines to be coordinated, as a portion of Orchard Creek was rerouted around the project, creating nearly four additional acres of developable land. Additionally, a CLOMR/LOMR-F was required to remove a portion of the site out of the 100-year flood plain boundary.

Brinkman Waterman Logistics Center, Elk Grove, California. Water Resource Engineer responsible for the Elk Grove Creek LOMR and onsite hydrology, hydraulics and water quality design for a 30-acre light industrial complex. This project consisted of field exploration to verify previously incorrectly modeled structures at both the Waterman Road and the Union Pacific Railroad crossings. This project also included the onsite design of a private basin which alleviated over 30 cfs from the peak in the adjacent Elk Grove Creek through the use of a weir and flap gates.

Four40 West, West Sacramento, California. Principal designer and water resource engineer for the 106-lot subdivision in West Sacramento. This project was fully undeveloped in the existing condition and was not capable of connecting to the public storm drain due to both proximity and capacity. Mrs. Bair created a dual-use design for both hydraulic and residential public purposes. Meandering paseos, a public park, a dog park and a community garden were created on top of an intricate system of infiltration trenches. The entire housing community will infiltrate up to the 100-year, 10-day storm event and alleviate the need for additional flows to be added into the already stressed existing public storm drain system.

Sierra View Tree Mitigation Bank, Roseville, California. Water resource engineer for the tree mitigation bank to offset the removal of 158 native oak trees. The proposed residential project converted 23 undeveloped acres into 75 low density residential lots and was granted a tree removal permit to install the public roadways and utilities. A mitigation bank was established to offset the impact of the removed trees. The proposed mitigation area was along the banks the Pleasant Grove Creek, which required an advance flood control analysis to evaluate the impacts not only the increased Manning's value, but also the potential of downed trees and undergrowth potentially creating a blocked scenario along the extents of the mitigation project.

Years of Experience: 11

Registration

Civil Engineer, CA # 87537

Education

B.S., California State Polytechnic University, Pomona, Civil Engineering

Professional Affiliations

Member, American Society of Civil Engineers (ASCE)

American Public Works Associations

American Association of University Women



PACIFIC CREST SURVEYING

RESUME

PRINCIPAL

Curt C. Chappell, President

California P.L.S. 7992 Oregon P.L.S. 84543

EDUCATION

Bachelor of Science, Marketing
Option-Logistics & Operations Management
California State University, Fresno

WORK HISTORY

Pacific Crest Surveying, Inc. - Owner

1/2006 to Present

As an owner, my responsibilities include project management, preparation of all types of survey maps, legal descriptions, and reports, responsible charge for non-licensed survey personnel, operations, business development, forward planning, and scheduling. In addition, mentoring the technical staff in both office operations and field procedures, and maintaining quality control and quality assurance policies are a daily activity.

City of Modesto Public Works, Utilities Division – Senior Land Surveyor

5/2013 to 2/2017

Senior Land Surveyor position was and is defined as follows: to plan, organize, assign, and review the work of assigned personnel engaged in professional surveying; to perform advanced level professional work pertinent to land and engineering surveying for the design and construction of roads, highways and bridges, drainage, sewage facilities and other projects, map checking, mapping and drafting, and description of real property; and to provide responsible staff assistance to engineering staff.

Stanislaus County Public Works – Interim County Surveyor

1/2006 to 6/2011

Review and/or direct the review of Records of Survey maps; execute the County Surveyor's Certificate for Parcel Maps, Tract Maps, Records of Survey and legal descriptions for recording purposes and assume statutory responsibility for the preparation and maintenance of such records; review and prepare reports related to tentative parcel maps, tract maps, lot line adjustments, conditional use permit applications, environmental impact reports, certificates of compliance and similar documents for compliance with laws, ordinances and regulations prior to acceptance and/or recording; research records within the County Assessor's office, the County Recorder's office, the Clerk of the Board of Supervisor's office and the Surveyor's office to determine chain of title, verify legal ownership County Properties and County rights-of-way; provide information to the public regarding surveying, land development, and public rights-of-way; oversee the County's monument preservation project; provide leadership for the Land Surveying Department; coordinate the work of the department surveyors and engineering/construction staff; develop Requests for Proposals as related to surveying and construction.

RELAVENT PROJECTS

Castro Valley Sanitation District – Sanitary Sewer Rehab, Castro Valley, CA

We topographic survey maps for the rehabilitation of an aging sanitary sewer system located in Castro Valley. The base maps included property detailed topography and a clear understanding of the existing sewer facilities for design of a functioning replacement system that minimized the construction-related impact to the property owners.

City of Burlingame Public Works – Sanitary Sewer Rehab, Burlingame, CA

We provided base maps for the rehabilitation of an aging sanitary sewer system located in an older neighborhood in the City of Burlingame. Most of the sewer mains were in easements in the rear yards of residential lots, so a base map that included property boundaries and easement lines, detailed topography, and a clear understanding of the existing sewer facilities was critical to the design of a functioning replacement system that minimized the construction-related impact to the property owners.

Meta-Facebook, Menlo Park, CA

Currently, we are providing professional land surveying services for the Civil Engineering firm that is preparing the on-site and off-site improvement plans for Meta-Facebook's new 60-acre campus in Menlo Park. As the lead surveyors, we have established and maintained the primary survey control network, resolved the project boundary, which is adjoined on one side by a State Highway, and another side by a railroad right-of-way, and provided topography for the entire site. I also prepared a new subdivision map that reconfigures the lotting and rights-of-way. All easements of record have been retraced and are included in the primary drawing file. Currently, we are at the front end of preparing right-of-way takes and abandonments that are a by-product of the reconfiguration of the adjoining street and highway at what will be the new entrances to the campus. Same for an overhead pedestrian bridge that will connect their existing campus to their new campus.

California High-Speed Rail Authority, CA

Managing the right of way surveying of the Merced to Fresno section of the California High-Speed Rail. The work included land net maps, appraisal maps, legal descriptions, plats, resolution of necessity documents, exhibits for various agency agreements and transfer documents, and records of surveys. We worked closely with the High-Speed Rail Authority, various local and State agencies, right of way agents, and design build teams.

Tri-Dam Project – Donnels Dam, Tuolumne County, CA

Comprehensive as-built documentation of Donnels Dam in Tuolumne County, including the upstream and downstream faces, thrust block, outfall, and spillway gate structures. The completed work product would be used to further analyze the existing condition of the dam and associated structures and to meet the requirements of the Federal Energy Regulatory Commission. A combination of advanced measurement instruments, foremost among these was the Leica Geosystems ScanStation C10 3D Laser Scanner, was used. Additionally, control and monitoring surveys were completed using a fully robotic total station survey instrument. The result was comprehensive as-built documentation of the dam, on time and on budget.



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