JUNE 11, 2026

City of Fort Bragg

Proposal for
Professional Construction Management Services
for The Raw Water Line Replacement Project

Submitted by

Alpha CM

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COVER LETTER

June 11, 2026

Alpha CM
2180 Jefferson St, Suite 212
Napa, CA 94558
707.819.9335
www.alphacminc.com

Chantell O'Neall, Assistant Director Engineering
City of Fort Bragg
416 N. Franklin Street
Fort Bragg, CA 95437

RE: Raw Water Line Replacement Project
Construction Management and Inspection Services Proposal

Dear Chantell:

The City of Fort Bragg has been given a second chance to get the funding for the completion of the Raw Water Line between the City's Water Treatment Plant and the Jackson Demonstration State Forest. Construction through the steep and forested terrain will be difficult enough, but a myriad of administrative, management, and jurisdictional details will need to be addressed. Having a construction management firm that understands the challenges and provides effective and timely solutions will be critical for successful project completion.

Alpha CM has the qualifications, resources, and expertise to assist the City in timely and successful delivery of this complex project. Established in 2021, we serve solely the construction management and inspection needs of northern California cities, counties, and special districts, with an emphasis on water and environmentally sensitive public works projects. We understand the nuances of grant funding, public financing, rigorous environmental permitting requirements, and construction in the public sector. We are currently providing or have recently wrapped up assignments or more than half a dozen potable water projects.

- Our proposed Construction Manager, **Dave Latona**, brings more than 25 years of pertinent construction management experience on water, environmental restoration, and public works projects. Over the last couple of years alone, he has successfully completed complex water projects for the Cities of Rohnert Park and Napa, the Town of Windsor, the Hidden Valley Lakes Community Services District, and the Alameda County Water District.
- Our Assistant Construction Manager will be **Craig Hansen**. Craig brings extensive experience managing water and utility infrastructure projects throughout California. He recently supported two complex water transmission projects for Alameda County Water District (ACWD).
- Our Inspector, **Norman Akana**, brings more than 40 years of public works experience as a tradesman, construction manager, and inspector. He recently completed assignments for two major main projects for the Alameda County Water District and $6 million stormwater pump station in San Rafael. Norman has also inspected major habitat restoration projects for the San Francisco PUC.
- **Crawford and Associates** will provide Materials Testing services and SWPPP. They are a trusted name in northern California for geotechnical and materials testing services.
- **CASI** will provide labor Compliance Monitoring Services.

We will provide an excellent team of subconsultants that will provide materials testing, SWPPP compliance, labor compliance, biological monitoring, and surveying. We cannot however, sub consult out design services, as we are not a design engineering firm.

Please contact me at **925-407-5188** or **bdanley@alphacminc.com** for anything regarding this proposal. We look forward to discussing our qualifications with you and how we may be of service to the City of Fort Bragg.

Regards,

Alpha CM, Inc.

Brian A. Danley, PE, QSD/P, LEED AP
Vice President

SECTION A: FIRM DESCRIPTION

Alpha CM, Inc., was established in 2021 as an S-Corporation. We specialize in water, wastewater, and public infrastructure projects. We provide CM services to northern California cities, counties, and special districts. Our staff bring a wealth of recent and pertinent experience in environmental, rehabilitation, sidewalks, storm drainage, traffic signals, street lighting, landscaping, irrigation, parks, and building projects. Much of the work is undertaken in the public right-of-way and we are cognizant and sensitive to local and neighborhood conditions and concerns.

Services offered include:

- Project Management
- Bidding Assistance
- Inspection/Quality Assurance
- Resident Engineering
- Biddability/Constructability Reviews
- Construction Management
- Cost Estimating
- Project Closeout
- Claims Mitigation and Support

Current and recently completed public projects include:

- Sacramento Suburban Water District - Dudley Dudley Main Replacement
- Yolo County - Wood Duck Pump Station
- City of Napa - Emergency 36" Transmission Main Replacement Project
- City of Napa - Redwood Road Water Main CIPP Rehabilitation Project
- Alameda County Water District - Main Renewal - Lindsay Tract
- City of Rohnert Park - A & B Sections Neighborhood Utilities Project
- City of Orinda - San Pablo Creek Box Culvert Repair Project
- Town of Windsor - Airport-Larkfield-Wikiup Sanitation Zone / WWD Sewer Interconnect
- Alameda County Water District - Main Renewal – Central Newark Thornton Avenue Project

Legal Entity

Alpha CM Inc. (S-Corporation)

Year Firm Established

2021

Corporate Office:

2180 Jefferson St, Suite 212
Napa, CA 94559
707.819.9335
www.alphacminc.com

Key Contact

Brian Danley, PE, QSD/P
Project Principal
925.407.5188 Mobile
bdanley@alphacminc.com

Certifications/Registrations

- EIN Number: 88-0563089
- Certified California small business enterprise #4842467: SB(Micro) and SB-PW
- Department of Industrial Relations (DIR) Contractor Registration Number is PW-LR-10008737

Subconsultant Firm Profiles

Crawford & Associates, Inc. (Crawford) was established in 2012 and is a registered Small Business Geotechnical Engineering firm (Certification ID: 1744908) that specializes in large-scale public works projects. Crawford has experience working with various oversight agencies including Counties, Cities, Caltrans, AREMA, Regional Transit, Building Departments, Regional Water Quality Control Boards, FEMA, FHWA, Cal OES, DWR, Army Corp, DSA, UPRR, CA Fish and Wildlife, Water and Irrigation Districts, Utilities and Environmental Health Departments. Crawford understands the importance of being responsive during construction. Our ability to mobilize quickly allows for projects to stay on time and within budget. Services include Geotechnical Engineering, Construction Observation, Materials Testing, Environmental and Hazardous Materials Assessments, and Expert Witness. Office locations include Rocklin, Sacramento, Eureka, Modesto, Pleasanton, Santa Rosa, Seattle, and Ukiah to meet the demands of our clients.

Crawford & Associates' Sacramento Laboratory is Caltrans certified. Our District 3 office specializes in soils and aggregate testing. Technicians are accredited for aggregate sampling in the field, nuclear gauge testing and relative compaction testing. Caltrans job sites require the personnel on site to be certified by them for quality assurance purposes.

Contract Administrative Services, Inc. (CASI), founded in 2016, is a Disadvantaged Business Enterprise (DBE) firm that specializes in assisting local agencies, state agencies and consultants with verifying labor compliance requirements and providing construction administration support. **CASI** has performed labor compliance monitoring services on dozens of federally and locally funded projects.

CASI provides comprehensive labor compliance verification following State and Federal requirements. The primary goal is to provide thorough and accurate labor compliance services, including verification of minimum base rate and fringe benefits requirements, overtime policies and rules, and apprenticeship requirements. Another important task is comparing the daily labor hours recorded by the inspector to the hours in the certified payroll reports. **CASI** adheres to the standards found in the Caltrans Local Assistance Procedures Manual throughout every phase of the project.

SECTION B: RELEVANT EXPERIENCE

Airport-Larkfield-Wikiup Sanitation Zone / WWD Sewer Interconnect Project (08/2024 - 02/2025)

Agency: Town of Windsor, 8400 Windsor Road, Bldg. 100, Windsor, CA 95492
Contact: Garret Broughton, PE, Senior Civil Engineer **Phone:** 707.838.1211
Email: gbroughton@townofwindsor.com
Location: Windsor, CA **Construction Cost:** $1.8M
Services Performed: CM and Inspection
Description: The project consisted of 3062 LF of 18-inch PVC force main with ductile iron fittings. The alignment was in streets and adjacent unimproved areas. The upper connection was at the Sonoma Water facilities on Freedom Way across from the Santa Rosa Junior College Public Safety Training Center and terminates at an existing blind flange on Shiloh Road. Project elements included restoration, sanitary sewer force main installation, including trenching, backfill and asphalt pavement, curb and gutter replacement, coordination with existing underground utilities, and associated work within the project site, and other ancillary work necessary to complete the work.

A & B Sections Neighborhood Utility Improvement Project (12/2023 - 12/2024)

Agency: City of Rohnert Park, 600 Enterprise Drive, Rohnert Park, CA 94928
Contact: Julian De Anda, PE, Senior Engineer **Phone:** 707.588.3317
Email: jdeanda@rpcity.org
Location: Rohnert Park, CA **Construction Cost:** $6.5M
Services Performed: CM and Inspection
Description: Project consisted of the replacement and repairs of portions of watermain and several sewer mains, replacement of sewer manhole covers, installation of new sewer manholes, Asphalt Concrete (AC) trench paving, AC paving, traffic striping and pavement markings, concrete gutter repairs, and retrofits of existing pedestrian sidewalk access ramps. The sewer work included the repair of sewer main pipes and lower sewer service lateral repairs via “Cured In Place Pipe” (CIPP) technique as well as “Open Trench” technique.

Dudley Dudley Main Replacement (7/2025 – ongoing)

Agency: Sacramento Suburban Water District, 3701 Marconi Ave., Ste 100, Sacramento, CA 95821
Contact: Tommy Moulton, Senior Project Manager **Phone:** 916.679.3345
Email: tmoulton@SSWD.org
Location: Sacramento County **Construction Cost:** $4.1M
Services Performed: CM and Inspection
Description: This $4.1M project includes the installation of 6000LF of ductile iron pipe with restrained joints at the former McClellan air Force Base that has been realigned to a business park. The existing soils are contaminated and excavated trench material will be removed and replaced with clean material. Project also includes meters, hydrants, service connections and pavement restoration.

Browns Valley Road Water Main Install Project (05/2024 - 02/2026)

Agency: City of Napa, 1700 Second Street, Ste 100, Napa, CA 94559
Contact: Victor Gonzalez, Assistant Engineer **Phone:** 707.257.9647
Email: vgonzalez@cityofnapa.org
Location: Napa, CA **Construction Cost:** $2.9M
Services Performed: CM and Inspection
Description: Project involved providing construction management for the installation of 5200 LF of 12-inch (PVCO) C909 PC 305 water mainline, sixteen interties, incidental disposal of AC pipe, new fire hydrants, disinfection, 25,000 SF of AC paving, new valving, service reconnections, tie-ins, trench paving, and striping. In addition to the technical aspects, performed outreach to business and residents.

Emergency 36" Transmission Main Replacement Project (07/2025 - ongoing)

Agency: City of Napa, 1700 Second Street, Suite 100, Napa, CA 94559
Contact: Victor Gonzalez, Assistant Engineer **Phone:** 707.257.9647
Email: vgonzalez@cityofnapa.org
Location: Napa, CA **Construction Cost:** $15.7M
Services Performed: CM and Inspection
Description: Project consists removal of ~7500LF of 36-inch Asbestos Cement Transmission Main and replacement with new 36" welded steel main. Also, installation of ~3000LF of new 12" C900 trunk. Work conducted along arterial roads, fire station, schools, businesses and residential. Additional project elements included, connections, valves, hydrants, curbs and gutter repairs, road repairs, grind and overlay, striping.

Redwood Road Water Main CIPP Rehabilitation Project (05/2024 - 02/2025)

Agency: City of Napa, 1700 Second Street, Suite 100, Napa, CA 94559
Contact: Victor Gonzalez, Assistant Engineer **Phone:** 707.257.9647
Email: vgonzalez@cityofnapa.org
Location: Napa, CA **Construction Cost:** $597K
Services Performed: CM and Inspection
Description: Project located on state highway 29 "St. Helena Highway", post-mile 13. Work consisted of rehabilitating 300 LF of 12-inch cast and ductile iron water main by CIPP and open cut. Located under Napa Valley Wine Train right-of-way and Caltrans overpass of Highway 29. Required extensive coordination line also required grouting of casing, tie-ins. Work conducted at nights due to arterial travel route that would have severe impacts to community and hospitality industry in the area. Outreach consisted of regular communication with businesses and community with Alpha CM as point of contact.

Laurel Street Water Main Installation Project (12/2022 to 8/2023)

Agency: City of Napa, 1700 Second Street, Suite 100, Napa, CA 94559
Contact: Chris Jones, P.E. **Phone:** 707.257.9460
Email: chrisjones@cityofnapa.org
Location: Napa, CA **Construction Cost:** $1M
Services Performed: CM and Inspection
Description: This $1M project involved the installation of approximately 550 LF of 12-inch fused C-900 PVC DR 14 water main on Laurel Street from Riordan Lane to Griggs Lane; the installation of approximately 300 LF of fused 8-inch C-900 DR 14 water main to replace an existing 4-inch cast iron water main with the reconnection of five services; and the installation of a 36-inch bypass valve assembly on the existing 36-inch asbestos cement transmission main and the installation of 200 LF of 36-inch AWWA C200 steel cement lined and coated (CMLC) transmission main. Work conducted along arterial street and next to an active park and fire station.

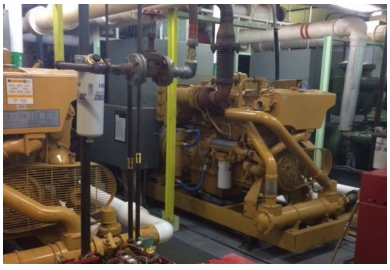
Main Renewal - Lindsay Tract (9/2024 - ongoing)

Agency: Alameda County Water District, 43885 South Grimmer Blvd, Fremont, CA 94538
Contact: Alan Velasquez, P.E. **Phone:** 510.668.4427
Email: AlanVelasquez@acwd.com
Location: Newark, CA **Construction Cost:** $6.5M
Services Performed: CM and Inspection
Description: This Project is part of the District's Water Main Renewal Program and will replace a 60-70 year old asbestos cement water main while improving system hydraulics, seismic reliability, and reducing maintenance costs. The project consists of removal of existing ACP and installation of over 6700 LF of 12-inch welded steel pipe and over 3000 LF of 8-inch PVC. Work performed in downtown Newark along narrow streets and arterial roads. Work includes connections, valves, hydrants, curb and gutter repairs, sidewalk and ADA ramps. Project requires extensive traffic control measures, and outreach to residents and businesses. Caution is required in handling and proper removal and disposal ACP pipe.

Main Renewal – Central Newark Thornton Avenue Project (04/2024 - 3/2026)

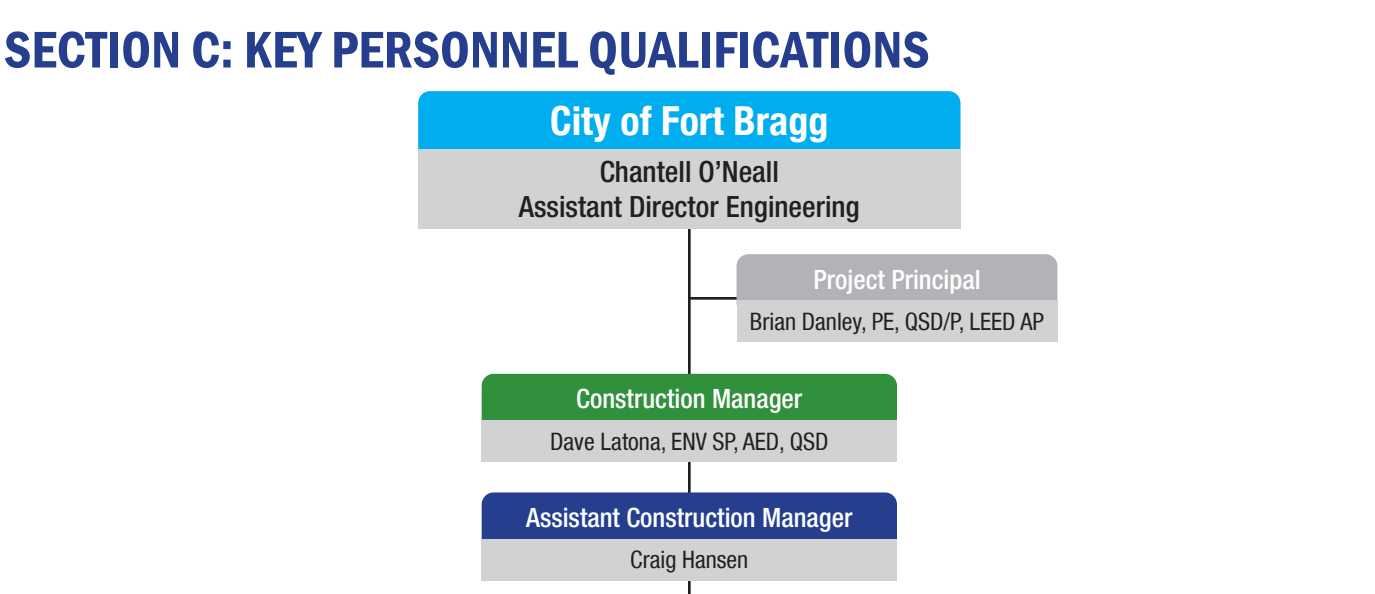
Agency: Alameda County Water District, 43885 South Grimmer Blvd, Fremont, CA 94538
Contact: Ryan Seidlitz, Project Engineer **Phone:** 510.668.4425
Email: RyanSeidlitz@acwd.com
Location: Fremont, CA **Construction Cost:** $11.8M
Services Performed: CM and Inspection
Description: Project included replacement of the existing water main on Thornton Avenue between Cedar Boulevard and Cherry Street. The project area was currently served by a 12-inch asbestos-cement pipe (ACP) and several branch connections off Thornton Avenue that are 8-inch ACP. Project included installation of approximately 980 LF of 8-inch and 880 LF of 12-inch cement lined and dielectrically coated steel pipe, 3700 LF of 12-inch Certa-lok restrained joint (RJ) PVC, and service laterals of various sizes, and associated appurtenances. The proposed pipeline installation was within the existing roadway right-of-way and crosses multiple intersections. The proposed pipeline was installed by open-cut trenching methods.

Backup Power Reliability (02/2024 - 04/2025)



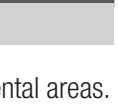
Agency: Hidden Valley Lake Community Services District, 19400 Hartmann Rd, Hidden Valley Lake, CA 95467
Contact: Hannah Davidson, Project Manager **Phone:** 707.987.9201
Email: hdavidson@hvlcsd.org
Location: Hidden Valley Lake, CA **Construction Cost:** $2M
Services Performed: CM and Inspection
Description: The project consisted of demo and replacement of existing controls building, controls (MTS, ATS, Loadbank) and installation of two new generators. Also new foundations, lift station upgrade and security fencing. Project required system operations uninterrupted with a short commissioning phase and shutdown window to transfer to new controls. Required coordination with County, District and Graton Tribe. Project is funded through Hazard Mitigation Grant Program (HMGP) / FEMA.

SECTION C: KEY PERSONNEL QUALIFICATIONS



In developing our team, we considered the expertise required for constructing pressure pipelines and sensitive environmental areas. Materials testing and labor compliance monitoring will be provided by subconsultants.

Dave Latona - Construction Manager



With more than 25 years of experience in construction management on a wide variety of capital improvement projects and water resources projects, Dave provides a broad perspective on projects. Dave has developed close, personal working relationships with numerous public agencies. Recent pipeline construction clients include the Cities of Napa and Rohnert Park, the Town of Windsor and the Alameda County Water District. In his role as Construction Manager, Dave will be responsible for coordinating the Alpha CM team efforts with the City, and through them coordinating communication regarding project progress, status, and completion. This also includes maintaining a general understanding of the status of the project, including progress, budget, and any construction or schedule issues.

Craig Hansen - Assistant Construction Manager

Our assistant construction manager will be Craig Hansen. Craig brings extensive experience managing water and utility infrastructure projects throughout California. He recently supported two complex water transmission projects for Alameda County Water District (ACWD). His combination of field and construction management experience will help ensure effective coordination, documentation, and successful project delivery.

Norman Akana - Inspector

Our inspector will be Norman Akana, who brings more than 40 years of pertinent experience and managed and inspected numerous pipeline, utility, and environmentally sensitive infrastructure projects. He recently completed the City of San Rafael's San Quentin Stormwater Replacement Project, which involved many of the same challenges associated with utility construction, coordination, and environmental compliance. Mr. Akana also has extensive experience with pump station and water system improvements for agencies including the San Francisco Public Utilities Commission, Sacramento Water Department, and Byron Bethany Irrigation District. His depth of experience provides valuable insight into complex utility construction projects.

Crawford & Associates - Materials Testing and SWPPP

Crawford & Associates will provide construction materials sampling, testing, and source inspection services to ensure that materials and construction methods comply with applicable project specifications, standards, and agency requirements.

CASI - Labor Compliance Monitoring

CASI will provide as-needed labor compliance services. CASI is a recognized labor compliance monitoring expert and has provided similar services statewide for a wide variety of public agencies.

Brian Danley, PE, QSD/P, LEED AP - Project Principal

Brian brings more than 40 years of construction management and design experience on water and wastewater pipeline, pump station, and treatment plant projects. Over the last five years, he has served as senior construction manager for wastewater projects in Mill Valley, Millbrae, Ironhorse Sanitary District and Las Gallinas Sanitary District. He also very recently served as project principal for water main and sanitary sewer rehabilitation projects for Dublin San Ramon Services District and Oro Loma Sanitary District respectively.

SECTION D: REFERENCES

Please see Section B for references.

SECTION E: SCOPE OF WORK

Understanding

The City of Fort Bragg plans to begin construction of the completion of the Raw Water Line between the City's Water Treatment Plant and the Jackson Demonstration Forest. Also included are a new pump station and pressure discharge line at the Newman Reservoir. The work was originally bid and partially built in 2023 through 2025. Private property access, delays, and funding issues forced termination for convenience of the original contract. The California Department of Water Resources (DWR) has since given the City a reprieve on the grant funding and required completion date, and the City has negotiated the rights-of-entry to the portions of the work on private property.

The cost estimate for the remaining work is $4.3 million, and the 120 working day project is expected to start in July 2026.

Key Discussion Points

After reviewing the available design documents and attendance at the preproposal meeting and site walk, we believe that the following points are worth further discussion:

Accuracy of accounting of work completed: The contractor could dispute the quantity and or condition of the work completed and materials delivered.

- **Solution -** Our team will thoroughly review the Bid Cycle 1 Project Status Update and discuss and negotiate any disputes with the contractor.

Accessing existing project records: Moving forward, it will be critical that all records from the previous contract are available.

- **Solution -** All available records will be uploaded to our cloud-based document management software to establish an accurate record of both phases of the project.

Changing of design engineer: Liability issues could arise from the termination of Coleman's engineering services contract.

- **Solution -** We will resolve any issues in the field, but the engineer of record must ultimately have responsibility and liability for their work.

Accessibility of jobsites: Access to the jobsites is often through private property, dense forests, and steep slopes.

- **Solution -** Our field team will be equipped with appropriate gear and equipment to work in the rugged conditions.

Permits compliance: There are numerous governmental agencies such as the US Army Corps of Engineers, California Department of Fish and Wildlife, State Water Resources Control Board, and Mendocino County exerting jurisdiction over the work.

- **Solution -** We will study the plethora of permits and verify that conditions are prudently met.

Mitigating impacts of potential delays: The City is hopeful that all work in the Lake and Streambed Alteration Agreement area can be completed early to avert a winter shutdown and second construction season. There is no guarantee that this can happen.

- **Solution -** We will work with the contractor to expedite the work wherever and whenever possible. Monthly update schedules will be monitored to determine responsibility for delays if encountered, and mitigation measures and work-arounds that can be developed.

Scope of Services

The tasks below outline the range of services we will offer throughout the Project's construction period based on our analysis of the RFP.

Task 1: Pre-Construction Phase

1.1 Internal Pre-Construction Meeting

Purpose: An internal kick-off meeting with client staff and relevant parties (Ownership Team) to provide a forum to discuss the project prior to start of construction.

Approach: Schedule, prepare agenda, chair meeting, take meeting minutes. Discuss lines of communication, contact list, procedures, document controls/logging system, concerns and set action items for team as needed. Attention will be given to items that may impact the schedule and/or project funding.

1.1 Deliverables: Provide meeting agenda, schedules, handouts. Distribute meeting minutes with actions items.

Task 2: Construction Phase

2.1 Pre-Construction Conference

Purpose: Provide an understanding of the procedures to be used on the project and provide a forum for all essential project participants to meet prior to the start of work.

Approach: Schedule, prepare agenda, chair meeting, and record meeting minutes. The meeting will outline highlights of contract, introduce attendees, discuss lines of communication, contact lists, procedures, document controls and logging system, discuss long leads and set actions items as needed, and record all comments and questions submitted by the contractor.

Attention will be given to items that may impact the schedule, airport operations, and/or project funding.

2.1 Deliverables: Meeting agenda, schedules, handouts, and meeting minutes with action items.

2.2 Quality Assurance and Quality Control (QA/QC)

Alpha CM will assign an experienced senior level Project Manager to periodically review the status of CM staff performance related to construction progress, coordination issues, change order avoidance, and adherence to contract and documentation procedures.

2.2 Deliverables: Memos, telephone conversation records, and records of other communications.

2.3 Communication and Correspondence

Purpose: Provide effective written, electronic, and oral communication on behalf of the City to the contractor and other stakeholders in the administration of the contract.

Approach: Field Memos shall be issued by the CM to address field problems as determined by the design team, the CM and the ownership team. These shall be reviewed during each weekly construction progress meeting. Any Field Memos that have the potential to involve work outside of the existing contract will be reviewed by the City prior to issuing and will also be assigned a Potential Change Order (PCO) number for tracking and resolution purposes.

The CM will be responsible for:

- Developing and implementing any additional written or oral communication necessary to facilitate the ongoing construction and documentation of the project.
- Track and file all project documentation including all communications between the contractor and the designer, and the ownership team.
- Facilitate distribution of all project related communications to appropriate parties.

2.3 Deliverables: Memos, communication logs, and documentation records.

2.4 Progress/Coordination Meetings

Purpose: Conduct weekly or bi-weekly meetings and pre-activity meetings to discuss project progress, review contractor schedules, and address project issues.

Approach: Schedule and conduct meetings with contractor and City staff. Meetings will review and discuss current and past issues that require action. Follow up on the issues raised at these meetings to expedite resolution and closure of issues. Meetings will include review of safety concerns, project schedule, three-week look-ahead schedule, submittal log, RFI log, correspondence log, change order log, and WSWD reports.

2.4 Deliverables: Meeting agendas, meeting minutes, and updated project logs.

2.5 Document Management

Purpose: Provide and maintain the City with a secure documentation control and cloud-based communication and tracking system with multi-level access for electronic means of tracking all documents exchanged between the parties involved in the construction of the project.

Approach: Alpha CM will use, PROCORE®, a cloud based correspondence, information, and submittal tracking system to

ensure that correspondence requiring responses, requests, and submittals are answered in a timely manner.

The contractor's submittal schedule will list all significant submittals required by the specifications and those that are critical to the project's success. The schedule will identify the expected date that the item is due. The City will review the schedule to confirm that all submittals are listed and that the planned dates allow sufficient time before the item is required on the job site.

Consultant will identify those submittals that can be reviewed at the job site and those that should be reviewed by the design engineer. The objective will be to proactively forecast potential problems and develop solutions before impacts occur in the project process.

2.5 Deliverables: Maintain orderly project files (digital and hard copies) which will be provided to the City at the end of the project. Logs of all documents in the project files.

2.6 Submittal Management and Review

Purpose: Provide an efficient means of processing shop drawing submittals between the contractor and design firm. Provide a brief, initial review of the contractor's shop drawings submittals before forwarding it to the design firm.

Approach: Establish procedures for expediting process via use of PROCORE .Using PROCORE, develop a submittal list for distribution to the contractor and design firm. Coordinate reviews, track and submit suspense submittal logs at each coordination meeting. Follow up on all submittals that are nearing the end of the review period. Question contractor regarding re-submittals of shop drawings that have been rejected or require additional information before the submittal may be approved for inclusion in the work.

2.6 Deliverables: Comments to contractor submittal schedule,submittal log, and processed submittal reviews.

2.7 Request for Information (RFI) Management

Purpose: At times, a contractor is unable to locate information that it deems critical to its construction activity. CM staff will receive, log and track RFIs submitted by the construction contractor. The efficient management of RFIs permits the timely communication between the design firm and contractor.

Approach: CM will receive, log, and review all RFIs for completeness and verify that the question is reasonable and understandable. CM will provide a short technical review of the RFI if the question is unclear or, in the opinion of the CM staff, the answer is contained in contract documents.

If the RFI question is reasonable and the answer is not contained in the contract document, we will work with City staff as necessary and the RFI will be forwarded to the designer. CM will track RFIs by creating weekly logs, using PROCORE software, to verify timely responses from the designer.

2.7 Deliverables: RFI log, RFIs responses.

2.8 Quality Assurance Inspection

Purpose: To monitor quality of all work performed by contractor, including by contractor's sub-consultants to determine if the work is proceeding in accordance with the contract documents.

Approach: Inspect work compliance with contract documents, applicable regulations, and environmental mitigation requirements. Attend all meetings. Coordinate sampling and testing of construction materials in accordance with bid documents. Record up-to-date construction changes to use in preparation of the record drawings. Report to City any violations of any applicable regulations or mitigation measures. Maintain a copy of the contract documents and construction related documents at the site. Coordinate all construction activities with the utility companies and other agencies within the project area and as required by the City. Photograph, log and pre-video prior, during and after construction.

Inspection services will include monitoring of all applicable construction disciplines including civil, structural, mechanical, plumbing, framing, electrical, and utility work as required by the project plans and specifications.

CM staff will monitor contractor compliance with the Stormwater Pollution Prevention Plan (SWPPP), environmental permit requirements, and associated erosion and sediment control measures.

CM staff will also review that constructed improvements comply with applicable accessibility requirements, including the Americans with Disabilities Act (ADA) and California accessibility standards where applicable.

Inspection staff will monitor site activities for compliance with the contract documents, plans, specifications, and required environmental compliance measures throughout construction.

2.8 Deliverables: Daily construction reports, construction logs, construction photos, non-conformance reports, and environmental report logs.

2.9 Maintain Photographic and Video Records of Construction Progress

Purpose: Provide a comprehensive visual record of project conditions before, during, and after construction to support documentation, progress monitoring, and potential dispute resolution.

Approach: Record project conditions before construction, during construction, and after completion using still photography and video. During construction, care will be taken to record all items and/or conditions that have or may have a bearing on claimed extra work.

As an additional value-added service regularly implemented by our team, we utilize time-lapse cameras on projects when appropriate. These cameras provide continuous visual documentation of construction activities over extended periods and serve as a valuable tool for confirming work performed, documenting sequencing of operations, and helping minimize disputes related to time-and-materials work or meritless claims.

Time-lapse documentation also provides the client with a complete visual archive of the project. The collected imagery can be compiled into short, high-impact summary videos, often condensing months of construction activity into less than a minute, which can be useful for board presentations, stakeholder briefings, public outreach, and project closeout documentation.

2.9 Deliverables: Periodic photographic documentation, Video documentation of construction activities, Time-lapse imagery and compiled project progress videos (when utilized).

2.10 Weekly/Monthly Construction Progress Reports

Purpose: Keep the City apprised of the project status during the prescribed construction period.

Approach: Prepare weekly/monthly reports that provide construction status to the City and other involved parties. The monthly report shall contain, at a minimum, the following:

- Potential issues, pending change orders, and executed change orders.
- A narrative description of the progress of work and major tasks completed.
- Schedule overview, with a 3 week look-ahead.
- Weekly statement of working days remaining.
- Contract change order summary.
- One set of key progress photos for the time period.
- Summary of construction progress for the prior reporting period.
- Significant project issues including recommendations on any unsolved issues.
- Photographs to show construction activities and to provide clarity for special issues.
- Other information deemed necessary for the City to have a concise understanding of the project.

2.10 Deliverables: Weekly/Monthly progress reports.

2.11 Payment Recommendations

Purpose: Verify that contractor's request for payment is reasonable for the work done monthly. Prepare progress payment recommendations on behalf of the City for work completed.

Approach: CM will organize field meeting between inspector, contractor, and City to verify quantities. CM will recommend that as a condition of approval, the contractor must be current with as-built recording and scheduling efforts. CM and contractor develop a procedure that is acceptable to the City for monthly progress payments, and the final payment. CM reviews contractor's payment request and verifies contractor pay quantities. After approval of the payment request, by CM and the contractor, CM prepares payment documentation for approval and execution by the City.

Payment reviews will also verify compliance with federal labor provisions, Davis-Bacon wage requirements, certified payroll requirements, and DBE participation reporting, when applicable.

2.11 Deliverables: Monthly constructed quantity forms, Progress payment recommendations.

2.12 Schedule Monitoring

Purpose: Review the contractor's initial and updated schedules for compliance with the contract documents and verify that the schedules accurately represent the scope of work. Monitor and review the contractor's schedule, after approval of baseline schedule, to ensure the project is not being delayed for reasons within the contractor's control.

Approach: Develop procedures to review contractor's schedule for logic, milestones, duration, and resource changes in contractor's monthly updates. Verify logic ties of activities, check the reasonability of task durations, review the critical path, and check for critical activities. Important scheduling elements, such as partial shutdowns, detours, material delivery, material storage, and contractor material hauling will be a part of the schedule review process. Monitor and document contractors' actual construction progress against the submitted schedule. Notify contractor of changes and

document contractor's response. Review contractor's 3-week look-ahead schedule distributed at weekly progress meeting for consistency with weekly reports. Inform City of construction schedule and updated changes. Track project's elapsed time and activities via WSWD (working statement of working days) which is distributed as part of the weekly construction meeting packet.

2.12 Deliverables: Schedule review. (WSWDs) Working Statement of Working days.

2.13 Construction Change Order (CCO) Management

Purpose: Provide the City with assurance that the contractor is not presenting unmerited requests for extra work that was included in the original contract scope. Assure the City that the associated extra work costs and time extension requests are fair and reasonable to City and contractor.

Approach: There are two separate scenarios involved with this task. First, there is extra work requested by the City or clearly indicated in the contract documents. Second, there are costs and time claimed by the contractor as alleged extra work. The steps used in assisting the City are similar in some respects and different in others. Our approach is as follows:

Request for Changes by the City:

Forward Request for Quote prepared by design engineer to contractor for pricing and time extension, if necessary. Have brief scope of the extra work and any other information the CM believes the contractor should be aware of to fairly price the work. CM prepares an independent cost estimate of the extra work. CM reviews the cost quote from the contractor for completeness.

If cost quote and CM's estimate is within 5%, accept the contractor's cost quote. If the difference is greater than 5%, negotiate with the contractor for a reasonable number. Should the CM and the contractor be unable to negotiate a reasonable price, do the work by force account.

Request for Changes by Contractor:

Review request of alleged cost increase and/or time impacts for merit. Considering the necessity of the change, check for propriety, consider other methods of accomplishing the work, method of compensation, effect on contract time, estimate of cost, the contractor's reaction to the proposed change, and the probability of final approval.

If the CM determines that a proposed change is warranted, a proposed change order file will be established. Documents prepared by the CM describing the work will be transmitted to the contractor for pricing. Concurrently, independent estimate of cost and time impact will be prepared by the City and CM. Upon receipt of the contractor's quotation, the CM will review and compare it to the independent estimate. Based on the review, the CM will either recommend approval to the City or recommend rejection. If negotiation is authorized, the CM will conduct the negotiations with the Contractor.

For work approved by the City where a unit cost is not determined prior to performing the work, the Inspector will collect time and material sheets at the end of each day and sign off on them.

All documentation regarding CCOs will be maintained by the CM, including dates of notification by contractor, interim steps, recommendation by CM and final decision.

2.13 Deliverables: PCO/CCO log, evaluations of change order impact on the construction schedule, change order cost estimates. Change order package.

2.14 Claims Review and Analysis

Purpose: Provide complete documentation, review of merit/ entitlement, a claims response strategy, and cost analysis for the City's review.

Approach: Track and manage all extra work items through the PCO and change order systems. Discuss extra work and claims during each weekly meeting. Track any disputed work items and attempt to resolve the issue.

2.14 Deliverables: Claims analysis reports and supporting documentation.

2.15 Permit Compliance/Environmental Coordination

Purpose: Verify that contractor's field staff is aware of any applicable permit conditions and that their work activities abide by the requirements of the permits granted by regulatory agencies. In the process, forge strategies in the field to meet all permit requirements while maximizing contractor progress.

Approach: Coordinate efforts with various permitting agencies. Establish and maintain positive relationships with monitors and regulators to minimize any construction delays. Review, document and enforce requirements stipulated in permit(s) issued by all regulatory agencies.

2.15 Deliverables: Daily logs prepared by CM. Correspondence to affected parties.

2.16 Safety

Purpose: Review and monitor contractor's compliance with its safety program, project safety requirements and applicable regulations.

Approach: CM staff will observe contractor work areas and attend contractor toolbox meetings on a routine basis to monitor implementation of the contractor's safety program. The Inspector will monitor and report on compliance with:

- On-site safety requirements and will report to City on any observed deviations from the plan.
- Traffic control and public safety plans for compliance with all safety laws and regulations. Review all detour, temporary access, signing, delineation and traffic control plans.

The Inspector will enforce safety requirements in and around construction zones and inform contractor of any unsafe work conditions and/or areas. (Immediate shutdown of contractor's work may be required if conditions endanger life and/ or property. Contractor shall prepare Job Hazard Analysis (JHAs) for any potentially dangerous activities in advance of being performed. Contractor shall provide attention to protection of existing utilities during construction.

2.16 Deliverables: Accident reports and summary logs.

2.17 Review and Maintain Record Drawings

Purpose: Provide the City with accurate record drawings.

Approach: Monitor contractor's required record drawings on a monthly basis. CM will perform monthly as-built progress checks to verify that field changes are accurately documented throughout construction. In addition to monitoring the contractor's drawings, CM will maintain a copy of the drawings and permits on the site with all the changes. Upon completion of construction, CM will conduct an As-Built verification and prepare and provide a copy of the As-Built drawings to the City. The As-Built will be typed and not handwritten. The As-Built will be PDF and provided to the City with the final documents prior to final payment. CM will also include items that are not normally shown on the contractor's set of record drawings. This information is not necessarily construction related but is project related and may be important for future maintenance and/or construction projects.

2.17 Deliverables: One PDF set of marked-up (typed) contract drawings, Record drawing files.

2.18 Materials Testing and Inspections

Purpose: Verify that installed materials, site conditions, and construction activities comply with project plans, specifications, and applicable regulatory requirements.

Approach: Provide and coordinate material testing and inspection services as required.

2.18 Deliverables: Special inspection daily reports, testing reports.

2.19 Labor Compliance

Purpose: Verify that contractor and subcontractors are complying with prevailing wage laws.

Approach: Review certified payrolls. Conduct employee interviews. Prepare monthly audit report.

2.19 Deliverables: Employee interviews, payroll reviews and monthly audit report.

2.20 Surveying (As-needed provided by City)

Purpose: Spot checking of the lines and grades.

Approach: Coordinate as-needed surveying services.

2.20 Deliverables: Document surveying notes and reports.

2.21 Stormwater Compliance Inspections

Purpose: For projects that require a Stormwater Pollution Protection Plan (SWPPP), a qualified SWPPP practitioner (QSP) is required to oversee implementation during the construction period.

Approach: Provide a QSP for implementing the SWPPP including inspection and rain event reports, preconstruction training, and monitoring and providing timely data input to the SMARTS system, stormwater sampling and analysis, and providing input to the QSD if any changes to the SWPPP are needed to reflect current conditions.

2.21 Deliverables: Weekly inspection reports, qualifying rain event reports, pre-construction training, updating and monitoring SMARTS, rain event observation, sampling and analysis.

2.22 Biological and Archaeological Monitoring (provided by City)

Purpose: The Mitigation Monitoring and Reporting Program (MMRP) requires the project to monitor for various biological and archaeological resources during ground disturbing construction activities. The MMRP indicates that roosting bats, nesting birds, and amphibians may be encountered. Native American artifacts and human remains may be encountered on-site.

Approach: Coordinate the services of biologists, archaeologists and Native American monitors.

2.22 Deliverables: Coordination with appropriate agencies and/or most likely descendant. File reports.

Task 3: Post Construction Services

3.1 Final Inspection and Punch List

Purpose: Identify elements of construction requiring correction prior to final acceptance by the City.

Approach: Following substantial completion, perform project inspection walk through with City and contractor (and other agencies as required) of completed construction. Develop a list of contract work requiring correction or rework. Deliver punch list to the City and contractor within three working days of inspection. Final punch list will include pending correction items, perform subsequent inspections to confirm that incomplete work has been completed satisfactorily and inform the City when work is complete for one final inspection.

3.1 Deliverables: Final punch list.

3.2 Closeout Documents by Contractor

Purpose: Obtain lien waivers, bonds, warranties, and other documents required by the Contract Documents from the contractor.

Approach: Coordinate with the contractor to compile and submit required closeout documentation in a timely manner. The CM team will track outstanding items, review submitted documents for completeness, and work with the contractor and design team to resolve any deficiencies.

3.2 Deliverables: Closeout document checklist, Final closeout package support and documentation tracking.

3.3 Project Record Drawings

Purpose: Provide the City with accurate As-Built documentation reflecting the final constructed conditions of the project.

Approach: At project completion, finalize the record drawing set maintained by the CM team and coordinate with the design engineer to prepare and complete the final As-Built drawings for the project record.

3.3 Deliverables: One digital PDF set of marked-up contract drawings maintained by the CM team, Contractor's marked-up record drawing set, Coordination support for preparation of final As-Built drawings by the design engineer and file final set.

3.4 Final Payment

Purpose: Provide the City with the final contract cost and final balance due to the contractor.

Approach: Following completion of the contract work, determine the final quantities and cost of contract work, and the final costs of all approved change order work.

3.4 Deliverables: Final payment estimate.

3.5 Final Project Report

Purpose: Provide the City with a written history of the project.

Approach: CM will review project documents and prepare a written report for the City, including names of project participants, contract amounts, RFI summary, lessons learned, final contract amount, chronological construction history, change order history, outstanding claims, contractor performance summary, and subconsultant final reports as applicable.

3.5 Deliverables: Final project report.

3.6 Contract Close-out

Purpose: Provide the City with all documentation necessary to close out the contract.

Approach: Review contract documents and public bidding law protocols for closing out projects. Prepare all legal documents for execution and, if needed, assist City in resolving contractor claims. Turn all construction documents over to the City, including hard copies, electronic files, and applicable operation and maintenance manuals. CM will also assist the City with preparation and processing of Notice of Completion forms and other required final close-out documentation.

3.6 Deliverables: Checklist of contract close-out items and transfer of final project records.

SECTION F: BUDGET AND SCHEDULE OF CHARGES

Alpha CM - Cost Proposal

Alpha CM

June 11th, 2026

City of Fort Bragg

Professional Construction Management Services for the Raw Water Line Replacement Project

Cost Proposal

Task & Staffing	Billing Rate	Total Hours	Total Price
Task 1: Preconstruction Phase			
Task 1.1: Internal Pre-Construction Meeting			
Project Principal	$ 228	1	$ 228
Construction Manager	$ 210	2	$ 420
Assistant CM	$ 185	4	$ 740
Inspector	$ 204	1	$ 204
	Subtotal	**8**	**$ 1,592**
Task 2: Construction Phase			
Task 2.1: Pre-Construction Conference			
Project Principal	$ 228	1	$ 228
Construction Manager	$ 210	2	$ 420
Assistant CM	$ 185	4	$ 740
Inspector	$ 204	1	$ 204
Task 2.2: QA/QC			
Project Principal	$ 228	12	$ 2,736
Task 2.3: Communication and Correspondence			
Construction Manager	$ 210	24	$ 5,040
Assistant CM	$ 185	80	$ 14,800
Task 2.4: Progress/Coordination Meetings			
Construction Manager	$ 210	24	$ 5,040
Assistant CM	$ 185	48	$ 8,880
Task 2.5: Document Management			
Construction Manager	$ 210	16	$ 3,360
Assistant CM	$ 185	44	$ 8,140
Task 2.6: Submittal Management and Review			
Construction Manager	$ 210	12	$ 2,520
Assistant CM	$ 185	12	$ 2,220
Task 2.7: Request for Information (RFI) Management			
Construction Manager	$ 210	6	$ 1,260
Assistant CM	$ 185	12	$ 2,220
Task 2.8: Quality Assurance Inspection			
Inspector	$ 204	925	$ 188,700
Task 2.9: Maintain Photographic and Video Records of Construction Progress			
Inspector	$ 204	6	$ 1,224
Task 2.10: Weekly and Monthly Construction Progress Reports			
Construction Manager	$ 210	24	$ 5,040
Assistant CM	$ 185	48	$ 8,880
Task 2.11: Payment Recommendations			
Construction Manager	$ 210	6	$ 1,260
Assistant CM	$ 185	6	$ 1,110
Task 2.12: Schedule Monitoring			
Construction Manager	$ 210	40	$ 8,400
Assistant CM	$ 185	20	$ 3,700
Task 2.13: Construction Change Order (CCO) Management			
Construction Manager	$ 210	4	$ 840
Assistant CM	$ 185	8	$ 1,480
Task 2.14: Claims Review and Analysis			
Project Principal	$ 228	1	$ 228
Construction Manager	$ 210	2	$ 420
Assistant CM	$ 185	2	$ 370
Task 2.15: Permit Compliance/Environmental Coordination			
Construction Manager	$ 210	2	$ 420
Assistant CM	$ 185	6	$ 1,110
Inspector	$ 204	12	$ 2,448

	Task 2.16: Safety			
	Construction Manager	$ 210	1	$ 210
	Assistant CM	$ 185	2	$ 370
	Inspector	$ 204	6	$ 1,224
	Task 2.17: Review and Maintain Record Drawings			
	Construction Manager	$ 210	1	$ 210
	Assistant CM	$ 185	2	$ 370
	Inspector	$ 204	6	$ 1,224
	Task 2.18: Materials Testing and Special Inspections			
	Sub Allowance (Crawford & Assoc.) w/markup			$ 57,970
	Task 2.19: Labor Compliance			
	Sub Allowance (CASI) w/markup			$ 22,207
	Task 2.20: Surveying (performed by City)			
	Construction Manager	$ 210	1	$ 210
	Assistant CM	$ 185	1	$ 185
	Inspector	$ 204	2	$ 408
	Task 2.21: Stormwater Compliance Inspections			
	Sub Allowance (Crawford & Assoc.) w/markup			$ 31,614
	Task 2.22: Biological and Archaeological Monitoring (performed by City)			
	Construction Manager	$ 210	1	$ 210
	Assistant CM	$ 185	1	$ 185
	Inspector	$ 204	2	$ 408
		Subtotal	**1436**	**$ 400,443**
	Task 3: Post Construction Services			
	Task 3.1: Final Inspection and Punch List			
	Construction Manager	$ 210	8	$ 1,680
	Assistant CM	$ 185	8	$ 1,480
	Inspector	$ 204	8	$ 1,632
	Task 3.2: Closeout Documents by Contractor			
	Construction Manager	$ 210	1	$ 210
	Assistant CM	$ 185	2	$ 370
	Task 3.3: Project Record Drawings			
	Construction Manager	$ 210	1	$ 210
	Assistant CM	$ 185	3	$ 555
	Inspector	$ 204	4	$ 816
	Task 3.4: Final Payment			
	Construction Manager	$ 210	1	$ 210
	Assistant CM	$ 185	2	$ 370
	Task 3.5: Final Project Report			
	Project Principal	$ 228	1	$ 228
	Construction Manager	$ 210	2	$ 420
	Assistant CM	$ 185	4	$ 740
	Task 3.6: Contract Close-out			
	Project Principal	$ 228	1	$ 228
	Construction Manager	$ 210	4	$ 840
	Assistant CM	$ 185	12	$ 2,220
		Subtotal	**62**	**$ 12,209**
	Other Direct Costs (ODCs)	**Billing Rate**	**Total Hours**	**Total Price**
	Vehicle			
	Inspector	$ 10.72	973	$ 10,431
	Cell/Data/Computer			
	Construction Manager	$ 0.90	185	$ 167
	Assistant CM	$ 0.90	331	$ 298
	Inspector	$ 0.90	973	$ 876
	Subsistance			
	Inspector	$ 9.75	973	$ 9,487
		Subtotal		**$ 21,257**
			Task & Staffing Total	$ 414,244
			Other Direct Costs (ODCs) Total	$ 21,257
			Grand Total	**$ 435,501**

Assumptions

1. Project duration 120 working days. Estimated start in July 2026 and completion by Dec 31, 2026.
2. Work conducted standard work hours M-F standard working hours. No overtime, weekends or holiday or part-time field inspection hours calculated into level of effort unless noted otherwise.
3. The level of effort provided is an estimate only.
4. Each individual cost item is a guide only; total CM cost shall take precedent.
5. Level of Effort based on RFP documentation provided by the City of Fort Bragg
6. Alpha CM reserves the right to shift budget allocations between tasks and staff as necessary to support project delivery
7. Cost proposal is based on a time-and-materials basis with a total "not-to-exceed" amount.
8. Proposal is valid for a minimum period of 90 calendar days subsequent to the proposal due date.

Hours & Cost Breakdown	Total Hours	Total Price
Project Principal	17	$ 3,876
Contruction Manager	185	$ 38,850
Assitant CM	331	$ 61,235
Inspector	973	$ 198,492
Sub Allowance (Crawford & Assoc.) w/markup (Materials Testing and Special Insp)	See attached Quote	$ 57,970
Sub Allowance (Crawford & Assoc.) w/markup (Stormwater Compliance Insp)	See attached Quote	$ 31,614
Sub Allowance (CASI) w/markup (Labor Compliance)	See attached Quote	$ 22,207

Crawford & Associates - Cost Proposal

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services

June 10, 2026
Crawford File No. 26-2041.P

Construction Materials Testing and Inspection Services
Fort Bragg Raw Water Line Replacement
Fort Bragg,CA

Crawford and Associates, Inc (Crawford) Crawford is pleased to submit this proposal to provide construction materials testing and inspection services for the City of Fort Bragg Raw Water Line Replacement Improvements Project.

SCOPE OF SERVICES

Crawford will perform the following services:

- **Project Management:** Crawford & Associates will provide Schedule coordination of an engineering tech and management of the field activities. Engineering review of daily field reports and testing results will be done prior to submission to the client.
- **Earthwork Observation and Testing:** Crawford will provide an engineering technician on a period bases to observe earthwork construction and perform materials sampling and testing, including density testing to evaluate conformance with the project plans, specifications, and recommendations of the geotechnical report. These services will be performed during site grading, preparation of structure foundation subgrade, and utility trench/excavation backfill. The estimate is for twice a week and figuring all day with travel, site time and reporting. Crawford assumes that the onsite work will be prevailing wage.
- **SWPPP Stormwaer Weekly Inspections:** Crawford will send a qualified person to the site to conduct SWPPP inspections. At a minimum once a week and submit the inspection reports. A notice of termination (NOT) will be submitted upon completion of construction activities and restoration of the disturbed areas. Crawford will conduct these services from the approved SWPPP submitted by others.

DELIVERABLES

- Daily Field Reports reviewed by a Crawford project manager.
- Weekly and Storm Event Inspection reports
- Final Summary Letter if required.
- Notice of termination of SWPPP

Crawford will provide all necessary personnel, subconsultants, equipment, and time to complete the project as requested by the Client.

FEES

Based on our construction experience and the project size, visits for testing and observation will likely vary between half-day to a full-day. The costs are based on our experience with similar projects. Actual costs will depend on the actual construction schedule, process, and number of tests required. Based on our experience, our fee could be as much as 35% lower or higher than

Corporate Office:
4701 Freeport Boulevard
Sacramento, CA 95822

Main:
(916) 455-4225

www.crawford-inc.com

our estimate due to contractor's actual scheduling, size of grading crews, construction delays, expanded scope and other items not known at this time.

We will only invoice you for the time required to complete the project. We will notify you in a timely manner if we expect to exceed the estimated fee due to contractor's schedule or required retesting. All laboratory testing will be per Caltrans procedures.

Over-time rates (rate x 1.5) may apply for site visits requested before 7:00 a.m. or after 4:00 p.m.; site visits requested with less than 24-hours notice; and same-day schedule changes. Site visits on Sundays or holidays will be billed at the straight-time hourly rate times two.

Crawford will perform the construction observation and materials testing services for the in accordance with the attached rate schedule.

A general fee break down for compaction testing per site visit is between $1,500 and $800 depending on departure from office location and availability of personel. SWPPP inspections are expected to be about $900 per site visit with reporting. I went with the highest cost on the Fee break down mostly for project budget purposes.

Thank you for asking for Crawford to be on your team. Please sign the attached agreement to initiate our services and we'll return an executed version for your records.

Sincerely,

Crawford & Associates, Inc.,

Gary Manhart, PG, CEG
Senior Project Manager

Shawn Leyva, PE, MS
Principal

Attachments:

- Fee Estimate and Crawford's 2026 Standard Rate Sheet
- Crawford's Standard Short for Agreement

Project Name: **Fort Bragg Raw Water Line Replacement**
County/City: **Fort Bragg**
Services: Construction Management and Engineering Testing Services

Crawford No. **26-2056.P**
Date: **6/9/2026**

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services

Crawford & Associates, Inc. Tasks and Descriptions		Principal *	Senior Project Manager I *	Project Coordinator	Administrative Assistant	Construction Services Supervisor	Technician	Soils/Asphalt Technician ** Group 3	HOURS PER TASK	LABOR COST PER TASK	OTHER DIRECT COSTS	LABORATORY TESTING	TOTAL COST PER TASK
	Crawford Staff	TBD	TBD	TBD	TBD	TBD	TBD	TBD					
	Hourly Rate	$ 320.00	$ 255.00	$ 135.00	$ 120.00	$ 175.00	$ 120.00	$ 150.00					
TASK NO. 1	**Project Management / Coordination / Site Review**												
	Project Management and coordination	1.00		20.00	5.00				26.00	$ 3,620.00	$ -	$ -	$ 3,620.00
	Scheduling		8.00			15.00			23.00	$ 4,665.00			$ 4,665.00
	Task 1 - Hours	1.00	8.00	20.00	5.00	15.00	0.00	0.00	49.00	**$ 8,285.00**	$ -	$ -	$ 8,285.00
TASK NO. 2	**Earthwork**												
	Laboratory Proctors		2.00						2.00	$ 510.00	$ 9,480.00	$ -	$ 9,990.00
	Compaction Testing		15.00				180.00	60.00	255.00	$ 34,425.00			$ 34,425.00
	Task 1 - Hours	0.00	17.00	0.00	0.00	0.00	180.00	60.00	257.00	**$ 34,935.00**	$ 9,480.00	$ -	$ 44,415.00
TASK NO. 3	**SWPPP Inspections**												
	Weekly Inspections		8.00				53.00	105.00	166.00	$ 24,150.00	$ 1,680.00	$ -	$ 25,830.00
	Notice of Termination		2.00					16.00	18.00	$ 2,910.00			$ 2,910.00
	Task 1 - Hours	0.00	10.00	0.00	0.00	0.00	53.00	121.00	184.00	**$ 27,060.00**	$ 1,680.00	$ -	$ 28,740.00
	Subtotal- Hours/Tasks	**1.00**	**35.00**	**20.00**	**5.00**	**15.00**	**233.00**	**181.00**	**490.00**				

Annual Rate Increase: **5%**
DIR Determination: **NC-63-3-9-2025-1**
Overtime and Graveyard Charges May Apply
(*) Indicates Key Staff
(**) Indicates Prevailing Wage Classifications

TOTAL LABOR COST:	$ 70,280.00
OTHER DIRECT COSTS:	$ 11,160.00
LABORATORY TESTING:	$ -
TOTAL ESTIMATED FEE:	**$ 81,440.00**

Crawford & Associates - Other Direct Costs **6/9/2026**

Task 1 Project Management / Coordination / Site Review

DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
Mileage Costs		Mile	$ 0.75	1	$ -
Vehicle Charge		Day	$ 25.00	1	$ -
Per Diem (Lodging & Meals)		Day	$ 350.00	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -

$ -

Task 2 Earthwork

DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
Mileage Costs	280	Mile	$ 0.75	30	$ 6,300.00
Vehicle Charge	1	Day	$ 25.00	30	$ 750.00
Per Diem (Lodging & Meals)		Day	$ 350.00	1	$ -
Nuclear Density Guage	1	Day	$ 30.00	30	$ 900.00
4" Proctor (D1557/D698)	2	Each	$ 490.00	1	$ 980.00
6" Proctor (D1557/D698)	1	Each	$ 550.00	1	$ 550.00
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -

$ 9,480.00

Task 3 SWPPP Inspections

DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
Mileage Costs	116	Mile	$ 0.75	15	$ 1,305.00
Vehicle Charge	1	Day	$ 25.00	15	$ 375.00
Per Diem (Lodging & Meals)		Day	$ 350.00	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -
		0	$ -	1	$ -

$ 1,680.00

$ -

TOTAL OTHER DIRECT COSTS $ 11,160.00

CASI - Cost Proposal

Contract Administrative Services, Inc (CASI)
10969 Trade Center Drive, Suite 108, Rancho Cordova, CA 95670
conadservices.com
(707) 761-2003

(City of Fort Bragg)

Raw Water Line Replacement Project

Project Duration: 120 working days
Est. Duration of Labor Compliance Services: 7 months
 # Subcontractors (Estimate): TBD
Construction Cost: $4.3M

CASI Billable Hourly Rate:

Labor Compliance Mgr.	$187
Labor Compliance Spc.	$149
Labor Compliance Asst.	$110

PRE-CONSTRUCTION

Pre-Con Preparation and Meeting:	HOURS	HOURLY RATE	SUBTOTAL
	0	$187	$0
	0	$149	$0
		Total Pre-Construction Cost Estimate =	$0

CONSTRUCTION

LABOR COMPLIANCE TASK		HOURS PER MONTH	TOTAL HOURS ON PROJECT	HOURLY RATE	SUBTOTAL	(x 3 MOS.) TOTAL
1. CERTIFIED PAYROLL REVIEW						
Manager		2	14	$187	$374	$2,618
Specialist		2	14	$149	$298	$2,086
Assistant		4	28	$110	$440	$3,080
2. CROSS-REF. CPR HRS. & INSPECTOR LOGS						
Manager		0	0	$187	$0	$0
Specialist		0	0	$149	$0	$0
Assistant		4	28	$110	$440	$3,080
3. CORRESPONDENCE						
Manager		2	14	$187	$374	$2,618
Specialist		2	14	$149	$298	$2,086
Assistant		2	14	$110	$220	$1,540
4. DOCUMENT CONTROL / CM SOFTWARE						
Manager		0	0	$187	$0	$0
Specialist		0	0	$149	$0	$0
Assistant		4	28	$110	$440	$3,080
5. ONSITE EEO INTERVIEWS						
Manager		0	0	$187	$0	$0
Specialist		0	0	$149	$0	$0
Assistant		0	0	$110	$0	$0
Hours on Project (Monthly vs. Total)	*Manager*	4	28			
	Specialist	4	28			
	Assistant	14	98			
			TOTAL PROJECT COST ESTIMATE (LABOR COMPLIANCE*) =			$20,188

TOTAL PROJECT COST ESTIMATE = $20,188

SECTION H: INSURANCE

After receiving the contract Alpha CM shall procure and maintain for the duration of the contract, insurance against claims for injuries to persons or damages to property that may arise from or in connection with the performance of the work hereunder by the Consultant, his agents, representatives, employees or subcontracts as set forth in Section 13 of Exhibit “A”.

SECTION I: CONSULTANT AGREEMENT

We take no exceptions to the City's Standard Agreement.

RESUMES

Alpha CM

Dave Latona ENV SP, AED, QSD

Construction Manager

Dave has over 25 years of experience in providing project and program management on water resources and capital improvement projects throughout Northern California. Dave has developed close, personal working relationships with many public agencies and has provided leadership to over $500 million in water projects. Dave has managed underground utilities, environmental remediation, stream restoration, flood control, and historical structural stabilization, bridges, roads, air traffic, and treatment facility projects.

Years of Experience

- 25

Education

- Undergraduate Studies, Civil Engineering
- Undergraduate Studies, Geomorphic & Ecological Fundamentals

Certifications

- California Stormwater Quality Association (CASQA)
- Qualified SWPPP Developer (QSD)
- Certified Professional in Erosion and Sediment Control (CPESC)
- American Ecological Engineering Society (AEES)- Ecological designer (AED)
- Institute for Sustainable Infrastructure (ENV SP)

Professional Affiliations

- American Water Works Association (AWWA)
- American Public Works Association (APWA)
- American Membrane Technology Association (AMTA)
- Bay Area Water Works Association (BAWWA)
- Society of Ecological Restoration, International (SER)
- Institute for Infrastructure (ISI)

RELEVANT EXPERIENCE

- **Delta Diablo, Manhole, Gravity Interceptor Lining and Easement Road Improvements**: $3M. Project Manager. The project consisted of repairing and rehabilitating critical sewer system manholes and gravity sewer mains. This included rehabilitating 30 manholes by way of new structural concrete polymer and composite liners, full sewer manhole replacements with Polymer Concrete manholes and Structural Concrete mortar Spray/Grout and epoxy lining with composite frames and covers. Also consisted of removing and replacing 30-inch VCP and RCP; CIPP line over 1000 LF of 30-inch sewer line in UPRR rail right of way and 20-inch sewer line along Caltrans right of way; open cut trenching, wastewater bypassing, and AC paving. In addition to working within UPRR and Caltrans right of way, much of the work was within sensitive wetland areas and tidal influenced areas requiring detailed preplanning and coordination to meet project sensitive milestones. Project required coordination with CDF&W, RWQCB, Delta Conservancy, UPRR, and City of Pittsburg.
- **City of Napa, Emergency 36" Transmission Main Replacement Project**: $15.7M. Project Manager. Project consists removal of ~7500LF of 36-inch Asbestos Cement Transmission Main and replacement with new 36" welded steel main. Also, installation of ~3000LF of new 12" C900 trunk. Work conducted along arterial roads, fire station, schools, businesses and residential. Additional project elements included, connections, valves, hydrants, curbs and gutter repairs, road repairs, grind and overlay, striping. Required working along easements and Caltrans right of way. Project also consisted of creek crossing.
- **Town of Windsor, Airport-Larkfield-Wikiup Sanitation Zone/Windsor Water District Sewer Interconnect Project**: $1.8M. Construction Manager. The project consisted of 3062 LF of 18-inch PVC force main with ductile iron fittings. The alignment was in streets and adjacent unimproved areas. The upper connection was at the Sonoma Water facilities on Freedom Way across from the Santa Rosa Junior College Public Safety Training Center and terminates at an existing blind flange on Shiloh Road. Project elements included restoration, sanitary sewer force main installation, including trenching, backfill and asphalt pavement, curb and gutter replacement, coordination with existing underground utilities, and associated work within the project site, and other ancillary work necessary to complete the work.
- **Alameda County Water District, Lindsay Tract and Birch Street Main Renewal Project**: $6.5M. Project Manager. The project consists of removal of existing ACP and installation of over 6700LF of 12" welded steel pipe and over 3000LF of 8" PVC. Work performed in downtown Newark along narrow streets and arterial roads. Work consists also of connections, valves, hydrants, curb and gutter repairs, sidewalk and ADA ramps. Project requires extensive traffic control measures, outreach to residents and businesses. Caution was required in handling and proper removal and disposal ACP pipe.
- **Alameda County Water District, The Main Renewal - Central Newark Thornton Avenue Project**: $11.8M. Project Manager. Included replacement of the existing water main on Thornton Avenue between Cedar Boulevard and Cherry Street. The Project area was served by a 12-inch asbestos-cement pipe (ACP) and several branch connections off Thornton Avenue are

(Dave Latona, cont'd)

8-inch ACP. Project included installation of approximately 980 linear feet of 8-inch and 880 linear feet of 12-inch cement lined and dielectrically coated steel pipe, 3700 linear feet of 12-inch Certa-lok restrained joint (RJ) PVC, and service laterals of various sizes, and associated appurtenances. The proposed pipeline was installed within the existing roadway right-of-way and crossed multiple intersections. Pipeline was installed by open-cut trenching methods.

- **City of Napa, Browns Valley Rd. Water Main Install Project**: $2.9M. Construction Manager. Project involved providing construction management for the installation of 5,200LF of 12" (PVCO) C909 PC 305 water mainline, sixteen interties, incidental disposal of AC pipe, new fire hydrants, disinfection, ~25,000 SF of AC paving, new valving, service reconnections, tie ins, trench paving, and striping, in addition to the technical aspects performed outreach to business and residents.
- **City of Orinda, San Pablo Box Culvert Repair Project**: $1.9M. Construction Manager. Project consisted of rehabilitating approximately 1500 LF of twin rectangular box culverts that carry San Pablo Creek beneath business parking lots and open areas on the northeast side of Camino Pablo. The concrete inverts of the culverts were in varying states of deterioration from minor surface defects to corrosion and failure of reinforcing steel and structural concrete. The existing inverts were cleaned and abraded and new structural concrete and reinforcing steel were placed to restore to original condition. A sealer requiring approval of California Department of Fish & Wildlife was placed on the finished concrete. Steel struts were added to an open channel section of the creek to shore up tilting sidewalls.
- **City of Rohnert Park Public Works, A & B Sections Neighborhood Utility Improvement Project**: $6.5M. Construction Manager. The City's A&B Sections Neighborhood Utility Improvement Project consisted of the replacement and repairs of portions of watermain and several sewer mains, replacement of sewer manhole covers, installation of new sewer manholes, Asphalt Concrete (AC) trench paving, AC paving, traffic striping and pavement markings, concrete gutter repairs, and retrofits of existing pedestrian sidewalk access ramps in the "A" & "B" neighborhood section of the City. The sewer work included the repair of sewer main pipes and lower sewer service lateral repairs via Cured In Place Pipe (CIPP) technique as well as open trench technique. The water work included replacement of a portion of water main via open trench and included new water services, water valves and fire hydrants.
- **Alameda County Water District, Dam No. 1 Rubber Dam Modifications, Shinn Outfall/Inlet Construction, Fish Screens and Control Building Modifications**: $40M. Project Manager. Project consisted of the removal, storage, modification, and reinstallation of the ~80,000lbs, ~380LF dam's bladder, placement of new bladder dam rubber underlayment/ abrasion sheeting, repairs, modifications, and expansion to the dam's foundation including underdrains, new 625LF fishway structure, auxiliary piping, and utility relocation. Shinn Pond fish screens consisted of construction of a new outlet/inlet structure with a new two-story metering vault and six fish screens, this included new 60-, 48-, 36- and 24-inch epoxy coated steel conveyance piping, demo of undersized outlet/inlet structures and new instrumentation and controls. Rubber Dam 1 control building modifications consisted of complete removal and upgrade replacement of fill and drain piping, and all new controls and electrification, and new pressure relief structure. The multi-discipline project consisted of geotechnical, vertical construction, deep foundation, hydrology, geomorphology, ecology in addition to mechanics, electrical and communications system (SCADA) knowledge. The project was on a stringent timeline requiring coordination with multi-agencies such as DSOD, Army Corps, ACFCD, CCFW, Coastal Conservancy, NOAA fisheries, UPRR and BART, in addition to upstream stakeholders such as the SFPUC. Dave's experience and past working relationships served to support the client in the successful completion.
- **Valley Water, Rancho San Antonio**: $19.5M. Construction Manager. As project manager for the San Antonio Creek Restoration and Goldfish Pond projects, Dave reduced the original two-year schedule for each project to just a little over one year – even with the biological restraints. Dave suggested that the planting and restoration process occur simultaneously for the San Antonio Creek Restoration project, contributing to a significant reduction in the schedule. Work on the Goldfish Pond consisted of increasing the habitat for the red-legged frog. When construction required the use of clays, David suggested additional investigation to locate clays on-site. Avoiding the use of off-site materials saved significant time and money. Eagle nesting at San Antonio Creek required investigation and adjustments to the construction schedule to ensure that the project wasn't delayed by returning eagles.
- **Alcatraz Island Penitentiary/National Park Service/Golden Gate National Recreation Area, Cell House A Seismic Stabilization and Rehabilitation and Repairs**: $13.6M. Project Manager. The rehabilitation project included structural and seismic stabilization repairs of the Historic Cell house A and dock repairs. The project also included stringent monitoring protocols of bird roosting zones, native fauna. Assisted in the constructability review phase capturing critical constraints due to permitting stance requiring early amendments. This in turn minimized project cost and impacts prior to bid. During construction, Dave performed assurance oversight as the project manager to maintain contract/ regulatory compliance. He also held cost and schedule ensuring public access within the work area during normal park hours.

Alpha CM

Craig Hansen

Assistant Construction Manager

Years of Experience

- 12

Education

- AWPA Construction Inspection
- Professional Affiliations
- Construction Management Association (CMAA)
- American Membrane Technology Association (AMTA)

Craig Hansen has more than 12 years of experience working on public works and infrastructure projects, Craig has hands-on experience with wet utilities. He is knowledgeable in various sewer rehabilitation methods such as trenchless methods, CIPP, pipe bursting, as well as open-cut method. Craig is a self-motivated, detail-oriented individual that works well with others as well as independently. He has used his interpersonal skills to motivate others to work together to accomplish time-sensitive projects. He can provide dynamic solutions to problems in a timely manner. When issues arise, Craig addresses them immediately to mitigate further complications.

RELEVANT EXPERIENCE

- **City of Oroville, Montgomery Roundabout Improvement Project**: $544K. Construction Manager/Inspector. This highly anticipated community project involves construction of the City's new roundabout at its primary arterial roadway, Montgomery Street. The work includes demolition and removal of the existing roadway, curb and gutter, roadway grading, installation of new lighting and signalization, and an HMA mill-and-fill overlay with new striping. The project also requires complex phased traffic control to maintain access and minimize disruption. In addition, the project demands proactive public outreach and ongoing community engagement throughout construction.
- **City of Napa, Redwood Road Water Main**: $1M. Inspector. This ongoing project involves providing construction management for the installation of approximately 550 feet of 12-inch fused C-900 PVC DR 14 water main on Laurel Street from Riordan Lane to Griggs Lane; the installation of approximately 300 feet of fused 8-inch C-900 DR 14 water main to replace an existing 4-inch cast iron water main with the reconnection of 5 services; and the installation of a 36-inch bypass valve assembly on the existing 36-inch asbestos cement transmission main and the installation of 200 feet of 36-inch AWWA C200 steel cement lined and coated (CMLC) transmission main.
- **Alameda County Water District, The Main Renewal - Central Newark Thornton Avenue Project**: $11.8M. Assistant Construction Manager. Included replacement of the existing water main on Thornton Avenue between Cedar Boulevard and Cherry Street. The Project area was served by a 12-inch asbestos-cement pipe (ACP) and several branch connections off Thornton Avenue are 8-inch ACP. Project included installation of approximately 980 linear feet of 8-inch and 880 linear feet of 12-inch cement lined and dielectrically coated steel pipe, 3700 linear feet of 12-inch Certa-lok restrained joint (RJ) PVC, and service laterals of various sizes, and associated appurtenances. The proposed pipeline was installed within the existing roadway right-of-way and crossed multiple intersections. Pipeline was installed by open-cut trenching methods.
- **Alameda County Water District, Lindsay Tract and Birch Street Main Renewal Project**: $6.5M. Assistant Construction Manager. The project consists of removal of existing ACP and installation of over 6700LF of 12" welded steel pipe and over 3000LF of 8" PVC. Work performed in downtown Newark along narrow streets and arterial roads. Work consists also of connections, valves, hydrants, curb and gutter repairs, sidewalk and ADA ramps. Project requires extensive traffic control measures, outreach to residents and businesses. Caution was required in handling and proper removal and disposal ACP pipe.
- **Napa Redevelopment Partners, LLC c/o Catellus Development Corporation, Napa Pipe Development Project**: $100M. Inspector. Project consisted of the redevelopment of the Napa Pipe yard into new housing (residential and commercial) development. Work included widening and reconstruction of Highway 221 at Kaiser Road, including construction and reconstruction of signalized intersections. The project included the deconstruction/ demo of three bridges over sensitive Napa River waterway and the construction of two new bridges over the Napa River and new road alignment and road widening. Also included are construction of two new roundabouts, mass grading, land development, new utilities, and tie-ins (gas, potable, sewer, recycle lines, communications, electrical). Piping included placement of 10,000 LF of 8-24 inch domestic water lines in addition to the placement of HDPE, CMP, Epoxy coated steel pipe in four miles of new streets. The project included coordination with multiple agencies due to their jurisdiction such as City of Napa, Caltrans, UPRR, Napa Sanitation District, CDF&W, Army Corp. of Engineers, RQWCB, and California Coastal Conservancy.
- **City of San Leandro, Climatec Energy Efficiency and Resiliency Project**: $8M. Inspector. The project consists of plant energy efficient upgrades in conformance with the plants long-term program. This includes a new 500kW/1.1MWh battery system for plant peak demand shaving, energy arbitrage and serve as the primary backup power (up to the BESS rated capacity) during public safety power shutoff (PSPS) and other power grid interruptions; new High Strength Waste (HSW) Receiving

(Craig Hansen, cont'd)

Facility for food processing waste reception; new Biogas system to produce RNG (Renewable Natural Gas); new Digester Mixer Replacement with high efficiency propeller Mixers; blower replacement to a new high efficiency turbo blower; and new shelter structure with pad. Replace existing 5 HP Heat Loop pumps with new high efficiency pumps. Project requires coordination with PG&E, Bay Area Air Quality Management District, plant operations management, and San Leandro.

- **City of Rohnert Park Public Works, A & B Sections Neighborhood Utility Improvement Project**: $6M. Inspector. The City's A&B Sections Neighborhood Utility Improvement Project consisted of the replacement and repairs of portions of watermain and several sewer mains, replacement of sewer manhole covers, installation of new sewer manholes, Asphalt Concrete (AC) trench paving, AC paving, traffic striping and pavement markings, concrete gutter repairs, and retrofits of existing pedestrian sidewalk access ramps in the "A" & "B" neighborhood section of the City. The sewer work included the repair of sewer main pipes and lower sewer service lateral repairs via Cured In Place Pipe (CIPP) technique as well as open trench technique. The water work included replacement of a portion of water main via open trench and included new water services, water valves and fire hydrants.
- **Delta Diablo, Manhole, Gravity, Interceptor, and Easement Road Improvements**: $3M. Inspector. The project consisted of repairing and rehabilitating critical sewer system manholes and gravity sewer mains. This included rehabilitating 30 manholes by way of new structural concrete polymer and composite liners, full sewer manhole replacements with Polymer Concrete manholes and Structural Concrete mortar Spray/Grout and epoxy lining with composite frames and covers. Also consisted of removing and replacing 30-inch VCP and RCP; CIPP line over 1000 LF of 30-inch sewer line in UPRR rail right of way and 20-inch sewer line along Caltrans right of way; open cut trenching, wastewater bypassing, and AC paving. In addition to working within UPRR and Caltrans right of way, much of the work was within sensitive wetland areas and tidal influenced areas requiring detailed preplanning and coordination to meet project sensitive milestones. Project required coordination with CDF&W, RWQCB, Delta Conservancy, UPRR, and City of Pittsburg.
- **Alameda County Water District, Dam No. 1 Rubber Dam Modifications, Shinn Outfall/Inlet Construction, Fish Screens and Control Building Modifications**: $40M. Inspector/Assistant CM. This project consisted of removal and modification of the existing rubber dam, demo and replacement of control, pump station, and support facilities in addition to the creation of a new 600 LF fish passageway to allow historic steelhead passage to upper watershed that was restricted for over 50 years. The project also included diversion screens and over 3,200 LF of large diameter welded steel piping. Coordinated levee breaches to recharge basins and creek alignment while working under active UPRR and BART bridges as well as modifying columns and abutments along Alameda Creek. As assistant CM Craig performed day-to-day operations, held meetings, reviewed, and responded to submittals, RFI's, progress payments, change orders and claims disputes.
- **City of Berkeley, Berkeley Marina Roadway Improvements Project**: $6M. Inspector. This project consisted of the removal, realignment, and reconfiguration of existing roadways. The project included pulverizing of existing AC, grading, and Full Depth Reclamation (FDR) treatment of base material. Extensive utility relocation (water, sewer, storm drain, gas, electrical) by open cut method was required for the realignment of the roadways. Installed new ADA sidewalks and ramps and bus stop pads, pervious parking stalls, roundabouts, and lighting. Detailed Traffic Control Plans (TCP) was involved with work being done in Caltrans right of way. Craig resolved various field issues resulting from unforeseen and hidden conditions, and system coordination problems.
- **City of Burlingame, Neighborhood Storm Drain Project #12**: $828,280. Inspector. This project included rehabilitation of existing deteriorated corrugated metal pipe (CMP) using trenchless method of cured in place (CIPP). Built new storm drain inlets, storm drain mains, curbs and gutters, sidewalks, valley gutters, concrete channels, medians, drainage structures, curb ramps, driveway approaches, and replaced existing storm drain facilities in public rights-of-way and storm drain easements.
- **City of Mill Valley, Sewer Rehabilitation Project**: $1M. Inspector. This project rehabilitated 6-inch and 8-inch sanitary sewer segments throughout the City, much of it on private easements. Rehabilitation methods were primarily CIPP lining and open-trench.
- **East Bay Regional Parks District (EBRPD), Dumbarton Quarry Park Project**: Inspector. This project consisted of refurbishing the existing quarry into an RV park for the East Bay Regional Parks District (EBRP). The project was new construction including trenching and placement of utilities (water, electrical, communications, fire, sanitary sewer, and storm drain). All roadways were new construction consisting of Hot Mix Asphalt (HMA) over an AB aggregate base.

Alpha CM

Norman Akana

Inspector

Norman Akana has 43 years of construction industry experience with the last 23 years as a Construction Manager/Inspector. He started as a union carpenter/general superintendent and progressed into materials testing and geotechnical inspections. His construction management experience includes water and wastewater facilities, multi-storied structures, and environmental cleanup including U.S. EPA-funded sites. He has also managed habitat restoration projects, pipelines, and roadways. Mr. Akana's background in management and inspections allows him to perform multiple roles on a project that results in major cost savings to clients. He has extensive expertise in the geotechnical aspects of construction, including inspecting engineered fill, landfills, roadway embankments, trench excavation and backfill. He interprets plans and specifications, administers construction contracts, inspects for safety and contract compliance, coordinates permitting compliance activities, performs construction surveying, implements traffic control plans and coordinates all construction inspection and engineering reviews.

Years of Experience

- 43

Training

- CMAA 1
- EM 385-1-1 40 Hour Cert
- QSP Course Completion
- Subcontractor Management
- Safety Coordinator Construction
- Safety Coordinator/Hazardous Waste

Professional Affiliations

- California Stormwater Quality Association (CASQA)
- California Water Environment Association (CWEA)
- Construction Management Association of America (CMAA)
- Member, International Conference of Building Officials former (ICBO)

RELEVANT EXPERIENCE

- **Alameda County Water District, The Main Renewal - Central Newark Thornton Avenue Project**: $11.8M. Project Manager/Inspector. Included replacement of the existing water main on Thornton Avenue between Cedar Boulevard and Cherry Street. The Project area was served by a 12-inch asbestos-cement pipe (ACP) and several branch connections off Thornton Avenue are 8-inch ACP. Project included installation of approximately 980 linear feet of 8-inch and 880 linear feet of 12-inch cement lined and dielectrically coated steel pipe, 3700 linear feet of 12-inch Certa-lok restrained joint (RJ) PVC, and service laterals of various sizes, and associated appurtenances. The proposed pipeline was installed within the existing roadway right-of-way and crossed multiple intersections. Pipeline was installed by open-cut trenching methods.
- **Alameda County Water District, Lindsay Tract and Birch Street Main Renewal Project**: $6.5M. Project Manager. The project consists of removal of existing ACP and installation of over 6700LF of 12" welded steel pipe and over 3000LF of 8" PVC. Work performed in downtown Newark along narrow streets and arterial roads. Work consists also of connections, valves, hydrants, curb and gutter repairs, sidewalk and ADA ramps. Project requires extensive traffic control measures, outreach to residents and businesses. Caution was required in handling and proper removal and disposal ACP pipe.
- **San Juan Water District, Water Treatment Plant Filter Backwash Hood Facilities Rehabilitation Project**: $3.3M. Construction Manager. The $3.3M project consists of rehabilitating bridge structure, bridge wheel drive frame assembly, bridge drive assembly, operations deck, deck drive, backwash pump and piping, backwash trough, surface wash pump and piping, hydraulic system, backwash hood, surface water injector, pump house, bridge rail and rack system, electrical, and instrumentation and controls.
- **Oro Loma Sanitary District, Sewer Rehabilitation Program, Multi-Phase Various Projects**: $3.4M. Construction Manager. This project provided project/construction management and inspection services for a variety of projects on a staff augmentation basis as part of the multi-phase 4-year $40 million Sewer Rehabilitation Program.
  - The Sewer Collection System Pipeline Rehabilitation and Replacement Project Phase replaced nearly 15,000 LF of 6-, 8-, and 10-inch VCP with 8- and 10-inch HDPE via pipebursting. The project included the removal of a 5-inch HDPE slipliner, prior to pipebursting with new 8-inch HDPE. The project included re-channelization of manholes and re-instatement of laterals. Close coordination was required with the various municipalities for surface restoration quality assurance.
  - The Canyon Ridge Standby Generator project provided a new 95-HP diesel engine and standby generator at the Canyon Ridge Lift Station.
- **San Francisco Public Utilities Commission (SFPUC), San Antonio Pump Station Upgrade**: $9M. Quality Assurance Inspector. The SAPS Upgrade Project included the following components: replacing three, 1,000-horsepower electrical pumps; adding two, 1.5-megawatt emergency generators (sized to power the three electric pumps) installed in a sound-attenuated enclosure; seismically retrofitting the pump station to reinforce the walls, complete foundation improvements, and connect the

(Norman Akana, cont'd)

roof to the walls; adding a new, 10,000-gallon aboveground fuel storage tank system to provide fuel to the two new generators; upgrading the pump station electrical system; and upgrading security hardware and programming. Worked directly with Eaton and G.E representatives during construction. Norman performed all quality inspection for the city of San Francisco's seismic retrofit and pump upgrade including the related structures project. Interacted with SFPUC staff on a daily basis because the plant remained open during the majority of the project. This relationship with the contractors ensured that a quality product was delivered to the client. Assisted in delivering the Operations and Maintenance manual and other equipment data to the city and its operators and developed training classes for the operators.

- **Byron Bethany Irrigation, Mountain House District Raw Water Pump Station Project**: $7M. Construction Manager/Inspector. The Mountain House Project included new intake structure on the Delta Mendota Canal, 15 MGD raw water pump station and twin 36-inch welded steel raw water pipeline. Work included SCADA and programmable logic controller (PLC) programming and mechanical installations and piping. Duties included: materials quality control; overseeing all testing and start up; reviewing contract documents, contract modifications and billing documents. Attended all meetings with the project contractors, CA Department of Water Resources, Contra Costa County, Alameda County, and Union Pacific Railroad. Performed inspections of all the phases of construction including the construction of the treatment plant and pump house with the pipe installation. Worked closely with all stakeholders to ensure timely delivery of project. Assisted in final review of all O&M manuals.
- **Truckee Meadows Water Authority, Longley Lane Water Treatment Facility**: $10M. Construction Manager/Inspector. This project consisted of a 4 MGD arsenic removal facilities for contaminated well water. Work included flocculation tanks, plate settlers, 14,500 SF CMU frame structure, chemical feed and storage systems, Pall Microfiltration System (owner provided), finished water pumping, 250,000-gallon clearwell, underground wastewater holding tank, solids dewatering facilities and 800 kW emergency generator.
- **City of Sacramento, Sacramento River Water Treatment Plant Replacement Intake Project**: $35M. Assistant Construction Manager/Lead Inspector. Performed all inspections and assisted in mechanical and electrical observations for the city. Also scheduled and participated in all levels of equipment testing. Coordinated efforts with Sacramento Area Flood Control Authority and CA Department of Fish and Wildlife. The project included temporary cofferdam in river, 20,500 SF pump building, a fish screen system with an automated screen cleaning system and the installation of 16 fish screens. Eight 2,000 HP motors, vertical turbine pumps were installed with a capacity of 185 MGD. Project included a dedicated electrical substation, four pressurized surge tanks, main discharge flow meter vault, pump discharge valve vault, equipment building and 84-inch diameter concrete lined steel pipeline from the intake to the point just east of Interstate 5.
- **East Bay Regional Park District, Renovate McKay Ave. Utilities at Crown Memorial State Beach**: $1.3M. Construction Manager. Project includes the following: Remove or abandon-in-place brick manholes and gravity sewer piping. Remove or abandon-in-place potable water piping connected to neighboring property. Remove a single-stall wood restroom building at the south end of McKay Ave. Remove a single-stall wood restroom building and a double-stalls wood restroom building at the east end of Memory Lane. Demolish EBRPD SS lift station and replace it with a new adjacent SS lift station. Renovate Visitor Center crawl space sewerage piping and connect it to the new SS lift station. Install new SS manholes, gravity SS lines and SS force main. Install a four-stall CXT restroom building. Remove or abandon-in-place brick manholes and gravity sewer piping.
- **Alameda County Water District, The Main Renewal - Central Newark Thornton Avenue Project**: $11.8M. Project Manager/Inspector. Included replacement of the existing water main on Thornton Avenue between Cedar Boulevard and Cherry Street. The Project area was served by a 12-inch asbestos-cement pipe (ACP) and several branch connections off Thornton Avenue are 8-inch ACP. Project included installation of approximately 980 linear feet of 8-inch and 880 linear feet of 12-inch cement lined and dielectrically coated steel pipe, 3700 linear feet of 12-inch Certa-lok restrained joint (RJ) PVC, and service laterals of various sizes, and associated appurtenances. The proposed pipeline was installed within the existing roadway right-of-way and crossed multiple intersections. Pipeline was installed by open-cut trenching methods.
- **Sacramento County Regional Sanitation District, Echo Water Project - Flow Equalization Project (FEQ)**: $100M. Assistant Commissioning Agent. This project entailed developing material tracking sheets, review of submittals for conformance and testing plans. The Flow Equalization Project increased the storage capacity of the existing Emergency Storage Basins (ESBs) at the Sacramento Regional Wastewater Treatment Plant (SRWTP) by approximately 110 million gallons. This involved deepening of ESB-B and ESB-C by approximately eight feet. Piping and gates were installed to allow flow into each of the basins and drainage from each.

Alpha CM

Brian Danley P.E., LEED AP, QSD/P

Project Principal

Years of Experience
- 45

Education
- MBA, Business Administration
- BS, Civil Engineering

Registrations
- Professional Civil Engineer: California, License No. C30347

Certifications
- Qualified SWPPP Developer/ Practitioner
- LEED Accredited Professional

Brian Danley has more than 45 years of diverse construction management, program management and design experience on wastewater and public infrastructure projects. He is an expert in project development and delivery on a broad array of public agency projects. Brian brings a perspective that emphasizes collaboration, and that collaboration has resulted in numerous successful projects and satisfied clients.

RELEVANT EXPERIENCE

- **Delta Diablo (Sanitation District), Manhole, Gravity, Interceptor and Easement Road Improvements**: $3M. Project Principal. The project consisted of repairing and rehabilitating critical sewer system manholes and gravity sewer mains. This included rehabilitating 30 manholes by way of new structural concrete polymer and composite liners, full sewer manhole replacements with Polymer Concrete manholes and Structural Concrete mortar Spray/ Grout and epoxy lining with composite frames and covers. Also consisted of removing and replacing 30-inch VCP and RCP; CIPP line over 1000 LF of 30-inch sewer line in UPRR rail right of way and 20-inch sewer line along Caltrans right of way; open cut trenching, wastewater bypassing, and AC paving. In addition to working within UPRR and Caltrans right of way, much of the work was within sensitive wetland areas and tidal influenced areas requiring detailed preplanning and coordination to meet project sensitive milestones. Project required coordination with CDF&W, RWQCB, Delta Conservancy, UPRR, and City of Pittsburg. Initially provided biddability/constructability review on a very short timetable in order for Delta Diablo to advertise the project on time.
- **Sacramento Suburban Water District, Dudley Dudley Main 16-inch Replacement**: $4.1M. Project Principal. This $4.1M project includes the installation of 6000LF of ductile iron pipe with restrained joints at the former McClellan air Force Base that has been realigned to a business park. The existing soils are contaminated and excavated trench material will be removed and replaced with clean material. Project also includes meters, hydrants, service connections and pavement restoration.
- **Town of Windsor, Airport-Larkfield-Wikiup Sanitation Zone/Windsor Water District Sewer Interconnect Project**: $1.8M. Project Principal. The project consisted of 3062 LF of 18-inch PVC force main with ductile iron fittings. The alignment was in streets and adjacent unimproved areas. The upper connection was at the Sonoma Water facilities on Freedom Way across from the Santa Rosa Junior College Public Safety Training Center and terminates at an existing blind flange on Shiloh Road. Project elements included restoration, sanitary sewer force main installation, including trenching, backfill and asphalt pavement, curb and gutter replacement, coordination with existing underground utilities, and associated work within the project site, and other ancillary work necessary to complete the work.
- **City of Orinda, North Lane Storm Water Mitigation Project**: $2.9M. Construction/Project Manager. Responsible for all field activities. Project consists of 1,300 LF of 60-inch storm sewer installed by open cut and bore and jack methods. Project also included outfall structure to San Pablo Creek which entails significant environmental and regulatory restrictions and requirements.
- **City of Rohnert Park Public Works, A & B Sections Neighborhood Utility Improvement Project**: $6.5M. Project Principal. The City's A&B Sections Neighborhood Utility Improvement Project consisted of the replacement and repairs of portions of watermain and several sewer mains, replacement of sewer manhole covers, installation of new sewer manholes, Asphalt Concrete (AC) trench paving, AC paving, traffic striping and pavement markings, concrete gutter repairs, and retrofits of existing pedestrian sidewalk access ramps in the "A" & "B" neighborhood section of the City. The sewer work included the repair of sewer main pipes and lower sewer service lateral repairs via Cured In Place Pipe (CIPP) technique as well as open trench technique. The water work included replacement of a portion of water main via open trench and included new water services, water valves and fire hydrants.
- **Oro Loma Sanitary District, Sewer Rehabilitation Program**: $3.4M. Project Principal. This project provided inspection oversight on project management services for a 4-year $40 million Sewer Rehabilitation Program and provided project/ construction management and inspection services for a variety of projects on a staff augmentation basis. The Sewer Collection System Pipeline Rehabilitation and Replacement Project Phase replaced nearly 15,000 LF of 6-, 8-, and 10-inch VCP with 8-

(Brian Danley, cont'd)

and 10-inch HDPE via pipebursting. The project included the removal of a 5-inch HDPE slipliner, prior to pipebursting with new 8-inch HDPE. The project included re-channelization of manholes and re-instatement of laterals. Close coordination was required with the various municipalities for surface restoration quality assurance. The Canyon Ridge Standby Generator project provided a new 95-HP diesel engine and standby generator at the Canyon Ridge Lift Station.

- **City of Mill Valley, Downtown Sewer Rehabilitation and Paving Project**: $2M. Project Principal. This project included more than 3,000 LF of 6-inch to 12-inch sewer construction, new laterals and cleanouts and manholes in downtown Mill Valley utilizing pipe bursting, CIPP lining, and open cut methods. Project also includes 500 LF of 12-inch and 18-inch storm drain and catch basins utilizing CIPP and open cut methods. Surface improvements include 5,280 SY of mill and fill and asphalt overlay, ADA improvements, and striping. Work required intense coordination and cooperation with downtown businesses and residents.
- **North Marin Water District (NMWD), Aqueduct Energy Efficiency, Marin County**: $5M. Project Principal. Provided construction and welding inspection oversight for 11,000 feet of 42-inch welded steel potable water supply pipeline as part of Caltrans' Marin-Sonoma Narrows Project on Highway 101. This project involved relocating an existing 30-inch potable water supply pipeline, as the new freeway lanes would encroach on NMWD's easement. The 30-inch pipeline was upsized to 42-inch welded steel, allowing for the elimination of a pumping station, and greatly reducing energy costs.
- **City of Millbrae, Madrone Sub-Basin 3 Sewer**: $1.3M. Project Manager. Provided full-time construction management and inspection services for this $1.3 million Madrone Sub- Basin 3 phase of the Sewer Modernization Program. This project involved rehabilitation of approximately 4,000 LF of sanitary sewer main in streets and backyard/side yard easements, primarily by pipe-bursting. Sag correction repairs were also included. 24 existing manholes were rehabilitated using the Mainstay two-part liner system. All lower laterals were rehabilitated by pipe-bursting or opencut replacement methods. Cleanouts and backflow prevention devices were installed on the laterals. Several private laterals were also rehabilitated. Construction was complicated by the narrow hilly streets and required proactive public outreach to work with residents.
- **Napa Sanitation District, Los Carneros Recycled Water Pipeline**: $20M. Project Principal. Provided oversight of inspection services subcontract. Project included nine miles of 6- to 20-inch pipe and 100 turnouts.
- **Ross Valley Sanitary District, FY 2014 Gravity Sewer Rehabilitation**: $2M. Project Principal. Responsible for construction management oversight. Project consisted of rehab of 8,500 feet of 6-inch to 8-inch sanitary sewers in Phase A and rehab and replacement of 8,700 feet sanitary sewer in Phase B. Sewers were lined utilizing CIPP.
- **City of Monterey, Sewer Line and Lift Station Rehabilitation**: $12M. Program Manager. Much of Monterey's sewage collection infrastructure is at or past its useful life. This program provided significant repairs to 102 miles of sewers and seven lift stations. Work included video condition assessment of sewers, pipe lining, pipeline replacement, manhole upgrades and lift station upgrades. Brian's responsibilities included coordination of design and construction efforts, monthly reporting, and master scheduling.
- **Ironhouse Sanitary District, Water Recycling Facility Phase 1 Improvements**: $1.7M. Project Principal. This $1.7 million improvement project at Ironhouse Sanitary District's water recycling facility (WRF) included supporting the installation of replacement of influent fine screens and screenings handling equipment. An existing alum tank will be moved and new pad, overflow berm and piping will be installed. Project also included major modifications to the WRF's odor control facilities including foul air ducting and replacement of the biofilter media. Miscellaneous piping and appurtenances were modified. Met weekly with stakeholders to discuss coordination, progress, and schedule.
- **City of Vacaville, Easterly Wastewater Treatment Plant Filtration and Denitrification Phases**: $100M. Technical Assistance/Back-up Construction Manager. This four-phase program upgraded the plant to full tertiary treatment. Project components included aeration basin structures, blower electrical building and load centers, washer/compactors, sludge grinders and pumps, water booster pump, flow equalization basin, modified biosolids storage lagoon, standby electrical generator, transformer system, piping systems, and modifications to four aeration basins. Participated in the biddability/constructability review and provided backup construction management services when the construction manager was on vacation. Review of front-end specifications eliminated many ambiguities regarding the contractor's oversight and administration of the job. This is reflected in the project's change order rate of less than 1% for errors and omissions in the contract documents.

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