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STATEMENT OF QUALIFICATIONS FOR ON-CALL ENGINEERING SERVICES

for the City of Angels

APRIL 25, 2025



Dewberry

ORIGINAL

SUBMITTED BY Dewberry Engineers Inc. 11060 White Rock Road Suite 200 Rancho Cordova, CA 95670-6061 916.363.4210 **SUBMITTED TO** City of Angels 200 Monte Verda, Suite B / PO Box 667 Angels Camp, CA 95222 ATTN: Pam Caronongan, City Administrator

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APPENDIX A: RESUMES





DEWBERRY ENGINEERS INC. 11060 WHITE ROCK ROAD SUITE 200 RANCHO CORDOVA, CA 95670-6061

916.363.4210 www.dewberry.com April 25, 2025

City of Angels 200 Monte Verda, Suite B / PO Box 667 Angels Camp, CA 95222 ATTN: Pam Caronongan, City Administrator

RE: Statement of Qualifications for On-Call Water and Wastewater Engineering Services

Dear Ms. Caronongan,

We are excited to continue our long-standing relationship with the City of Angels (City). Dewberry Engineers Inc. (Dewberry) has served as the On-Call City Engineer for the last six years. We look forward to extending our partnership as your on-call water/wastewater engineer delivering critical infrastructure projects for the City.

In addition to providing assistance under our existing on-call contract, your project manager, Dave Richard, has personally assisted the City for fourteen years. This experience means no learning curve in developing cost-effective solutions in delivering projects for the City. We also know the City processes and standards and have long-term relationships with multiple key City staff including Amy Augustine in Planning, Aaron Brusatori in Engineering, Chris O'Flinn and David Porovich in Public Works, Michelle Gonzales in Finance, and Rose Beristianos in Administration. Our understanding of each department's requirements will help expedite project delivery.

During the last six years, your Dewberry team has delivered or is in the process of delivering numerous projects, including water pipelines, sanitary sewer pipelines, pump stations, and wastewater treatment plant improvements; provided assistance with funding applications; prepared technical reports and documentation in support of applications for obtaining or renewing regulatory permits; and assisted the City in maintaining regulatory compliance. We also assisted in developing the five-year Capital Improvement Plan (CIP) for water and wastewater projects and provided projected timelines for design and construction periods. We know the importance of improving the existing City water and wastewater systems and preparing expansions/extensions to serve new development in a timely manner and on a cost-efficient basis.

The Dewberry team is available and ready to continue our engineering services for the City and we look forward to the opportunity to serve the City in the future. The Dewberry water/ wastewater team is located in Rancho Cordova and Manteca, and can be onsite at the City within approximately an hour to rapidly serve the City's needs.

As an Associate Vice President for Dewberry, I have the authority to enter into a contract with the City of Angels. Dewberry's proposal is valid for 90 days from the date of this submittal. As you evaluate our statement of qualifications, please let us know if you have any questions or require additional information. We look forward to hearing from you.

Very truly yours, Dewberry Engineers Inc.

Dave Richard, PE Associate Vice President/Contract Manager

Point of Contact: Dave Richard, PE 11060 White Rock Road, Suite 200 Rancho Cordova, CA 95670-6061 Email: drichard@dewberry.com Phone: 209.769.5060

FIRM QUALIFICATIONS

About Dewberry

Dewberry Engineers Inc. (Dewberry) has a proven history of providing professional services to a wide variety of public- and private-sector clients in Northern California, including the City of Angels (City) for the last six years. Recognized for combining unsurpassed commitment to client service with deep subject matter expertise, Dewberry is dedicated to solving our clients' most complex challenges. Established in 1956, Dewberry has more than 60 locations and over 2,500 professionals nationwide. On-call engineering services to the City will be provided by staff in our Rancho Cordova and Manteca offices.

Firm Capabilities

Dewberry is unique in that we offer all of our primary services from a regional office location. This includes project management, water and wastewater engineering, structural engineering, environmental services, and grant writing/funding assistance. Having all disciplines under one roof allows us to directly coordinate staffing needs and address the highest priority issues. It also facilitates our ability to provide immediate response from a single point of contact when issues arise.

Our project teams are adept at coordinating with one another to discuss project issues from multiple technical viewpoints. Frequent coordination between our various disciplines allows each group to identify project constraints early and to determine the most effective project solution. This collaborative approach results in projects that are well designed, constructible, and in compliance with environmental clearance and permit regulations.

Fully Committed to the City of Angels

For the last six years, Dewberry has been dedicated to solving the City's most complex water/wastewater challenges and supporting staff on an as-needed basis. We are fully committed to continuing to deliver high-quality services to the City, and we have assembled a dedicated team combining in-house and subconsultant professionals with a proven track record of successful collaboration with the City, allowing for seamless project execution. Additionally, Dewberry is committing dedicated resources to be available throughout the duration of this contract. Our Rancho Cordova and Manteca offices, with over 75 local engineering and environmental staff, will prioritize the City's project needs, and our close proximity allows for immediate mobilization.

DESIGN AREAS OF EXPERTISE



WATER ENGINEERING

• Storage Tanks

• Utility Locating

Master Planning

DDW Permitting

• Hydraulic Modeling

- Groundwater Wells
- Pump Stations
- Distribution Pipelines
- Water Treatment Plants
- Transmission Pipelines



WASTEWATER ENGINEERING

- Sewer Assessments
- Sewer Rehabilitations
- Infiltration/Inflow Studies
- Collection Pipelines
- Master Plans

- Pumping Stations
- Wastewater Treatment Plants
- Permitting
- Effluent Disposal/Reuse
- Optimization Studies



FIRM QUALIFICATIONS 1

Long-Standing Community Experience through Execution of Local Projects

Dewberry staff has proudly served the City since 2011, and our team has a strong familiarity with the City's staff, processes, needs, and expectations. We have successfully completed multiple task orders under the City's On-Call City Engineer Services contract in the areas of Water/Wastewater, Grant Assistance, Construction Management/Inspection, and Survey disciplines, including:

- Dam Break Inundation Mapping/Emergency Action Plan
- Booster Way Sewer Replacement
- Emergency Operations Plan and Floodwater Plan
- Engineering Report for Production, Distribution, and Use of Recycled Water (Title 22 Recycled Water Report)
- Grant Documents Applications and Assistance for Critical Water and Wastewater Protection Project
- Main Street Sewer Replacement Phase 1
- Multiple Private Development Projects Infrastructure Capacity/Connection Reviews
- NPDES Permit Renewal Application Package
- Responses to Regulatory Inspections/Correspondence
- Update of City Water and Wastewater System Maps
- Wastewater Treatment Plant Salinity Evaluation and Minimization Plan Update
- Wastewater Treatment Plant Biosolids Handling Improvements Project
- Water Treatment Plan Improvements and Backwash Recycling Project Management and Oversight
- Critical Water and Wastewater Infrastructure Protection Project
- SR 49 Water System Improvements
- Mark Twain Water Distribution System Improvements
- Vallecito Road Sewer Replacement Project
- Purdy Road Water and Sewer Improvements
- Five-Year Water ann Wastewater Capital Improvement Project
- Sanitary Sewer Management Plan



Booster Way Sewer Replacement



East Trunk Sewer Rehabilitation



Wastewater Treatment Plant Drying Bed Area Expansion

REFERENCE:

City of Angels Chris O'Flinn chrisoflinn@angelscamp.gov 209.736.2412

Similar Experience in On-Call Water and Wastewater Engineering Services

On-Call Water and Wastewater System Engineering, Oakwood Lake Water District SAN JOAQUIN COUNTY, CA

Oakwood Lake Water District (OLWD) supplies drinking water and wastewater conveyance for the Oakwood Shores subdivision and the adjacent Oakwood Lake Mobile Home Park in an unincorporated area of San Joaquin County southwest of the City of Manteca. Since 2017, OLWD has retained Dewberry to provide as-needed special studies, preliminary and final design, and construction management of multiple projects including:

WATER SUPPLY MASTER PLAN Identified facility improvements to alleviate reliability and vulnerability deficiencies and facilities for future expansion. An assessment of OLWD facilities was prepared and the distribution system modeled using WaterCAD for existing conditions, buildout, and an expanded community. Design criteria were developed to correct deficiencies and identify improvements for future growth. A CIP list was developed for the proposed improvements including cost, triggers, and timelines. The master plan included construction of an additional clearwell at the OLWD WTP.

COLLECTION SYSTEM MASTER PLAN (CSMP) Defined capital improvement projects triggered by development within Oakwood Shores along with other improvements to sustain OLWD long-term operations. The CSMP included determining unit wastewater flows, estimating infiltration/ inflow and peak wet weather flow factors, assessing existing facilities condition, determining reliability of pumping systems, calibrating the hydraulic model, evaluating available capacity of the collection system, determining cost-effective system improvements to correct deficiencies, improving system reliability and operational flexibility, and aligning facility improvements with building construction phasing schedule. CSMP financial data and nexus information was used by OLWD to prepare an equitable rate and impact fee structure for existing and future customers.

WASTEWATER SYSTEM IMPROVEMENTS PROJECT Designed a 1.0 mgd submersible wastewater pump station (WWPS) to convey wastewater through a 10,000-foot-long, 8-inch diameter force main to the City of Manteca trunk sewer network. The WWPS included electrical service, emergency generator with automatic transfer switch, odor control unit, pig launching system for force main maintenance, provisions for wet well overflow to emergency storage basin, and re-routing of force mains from existing pump stations. Prepared alternatives analysis and basis of design report, developed system/pump curves for multiple operational scenarios, developed detailed construction documents, and provided construction oversight/inspection.

CASTELLINA WAY WATER MAIN REPLACEMENT PROJECT Designed a replacement 12-inch distribution main including reconnection of residential service laterals. The Oakwood Shores network has experienced a number of catastrophic pipeline failures due to poor installation or defective materials. The project required development of a construction sequencing plan, utility potholing strategy, methodology for reconnection of residential services, criteria for the horizontal/ vertical location of the new 12-inch distribution main, coordination with utility service providers, preparation of contract requirements, development of opinions of probable construction cost, bid period assistance, engineering services during construction, and construction oversight.

SIMILARITIES TO CITY OF ANGELS ON-CALL:

- Task orders for specific assignments
- Water/Wastewater Master Plans drive CIP
- Typical Project Construction Value \$0.5 \$3 million





REFERENCE:

Oakwood Lake Water District Bert Michalczyk, District Engineer bert.michalczyk@gmail.com 925.570.8830

- Permitting assistance for water/wastewater plants
- Construction oversight provided on projects



Water Engineering Projects with Similar Features

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LEGEND									目	
1. Groundwater Wells	2. Pump Stations	3. Distribution Pipelines	4. Water Treatment Plant				· · · ·	É	<u>_</u>	,
5. Storage Tanks	6. DDW Permitting	7. Hydraulic Modeling	8. Utility Locating					••••••••	····	
PROJECT NAME				1	2	3	4	56	7	8
Tier 1 Infrastr	ucture Improveme	ents at Placer County	Government Center in	1						
North Auburn, C	A									
The \$11 million Tier 1 development. The pro	project replaces World oject is also intended as	War II era infrastructure an the first step in creation of RCW(A) and the Newada Irric	d creates a backbone for futu a water system to be operate	ire ed/						
Client: Placer Coun	ty Reference: Dan F	Richards drichards@plac	zer.ca.gov 530.886.4946							
Downtown Ut	ility Improvement	s Project in Vacaville	, CA							
Design and construction downtown. Project ob 9,700 LF of water pipe approximately 5,500 L of deteriorated sewer relocation of pipelines	on oversight services to s jectives included but we lines to meet 4,500 gpm F of sewer pipelines to r pipelines, replacing late for ease of maintenance	upport the City in upgrading re not limited to the upsize a planning-level fire flow rec neet the 8-inch minimum di rals and water meters along e access, including removal	g water and sewer systems and installation of approxima quirements, upsizing iameter standard and replace g upsized water pipelines, and of backyard pipelines.	tely ment		•				•
Client: City of Vacaville	Reference: Armando	Lee interwest.armando.lee	@cityotvacaville.com 209.429	.0772						<u> </u>
Water Transm	ission Pipeline at (Crows Landing Indust	trial Business Park (CL	IBP)						
Offsite water improve dual 12-inch waterling of Crows Landing east facility at CLIBP. The so Crows Landing. The tr be provided for exten future phases of the b Client: Stanislaus Co	ments to support the ini es. One waterline will co of the project and to a econd waterline will con ansmission lines will fol sion of the waterlines as pusiness park. The projection pounty Reference: Dav	tial development phase cor nnect to a proposed water 1.5 MG water storage tank vey treated water from a w low Fink Road and Bell Roa s well as connections for sto ct also includes a crossing o re Leamon leamond@stan	nsists of approximately 8,000 supply well within the comm and booster pump station ater treatment system back to d to the CLIBP. Turnouts will orage tanks to be constructed of the Delta-Mendota Canal. county.com 209.525.4130	ft of unity o	•	•	•	•	•	•
Don Pedro Ree	creation Agency (D	PRA) Swimming Lago	oon Filter Replacemen	t						
Replacement of 2.0 m with Turlock Irrigation footprint. Design resp purchased filtration er from equipment supp drawings for new mot detailed field measure Construction period w	gd pressure filter systen District, purchased a ne onsibilities included pre quipment including pipi liers to identify scope of or control center and SC ements, and developme vas coordinated with sea	n at recreational swimming ex filtration system to be in- paration of installation dra- ng and structural support sy work for installation contra ADA interface, confirmation nt of extensive construction isonal use of swimming lag	lagoon. DPRA, in collaboratic stalled within an existing facil wings for \$350,000 pre- ystems, review of shop drawi actor, preparation of construct n of existing conditions throug o sequencing documents. oon from April – October.	n ity ngs ttion gh	•		•			•
	alion District Referen	hce: Bill Penney Dipenn	ney@lid.org 209.883.8222							
A 5-year, \$4.5 million disposal was prepare in the City of Angels 20 customers was develo In developing the CIP, Factors incorporated i resilience, life cycle co Client: City of Angel	Capital Improvement Pr d to confirm the City has D20 General Plan. A dist uped for each CIP project alternative analyses we nto the evaluation of alt ists, compatibility with fu s Reference: Chris	ogram (CIP) for wastewater adequate facilities to supp ribution of costs between e t to facilitate a subsequent a re conducted for upgrading ernatives included hydrauli uture development, and cor O'Flinn chrisoflinn@ang	r conveyance, treatment, and ort future growth as defined xisting ratepayers and future analysis of rates and impact f g the City trunk sewer networl ic performance, reliability, nstructability. gelscamp.gov 209.736.241	ees. K. 2	•	•		•		



Wastewater Engineering Projects with Similar Features

Wastewate	r Engineering	Projects with	Similar Featu	res						····.	·.
LEGEND 1. Sewer Assessment	2. Sewer Rehabilitation	3. Infiltration/Inflow Study	4. Collection Pipelines						R		
5. Pumping Stations	6. Wastewater Treatment	7. Permitting	8. Effluent Disposal/Reuse				۰.	··.			
PROJECT NAME				1	2	3	4	5	6	7	8
Booster Way	Sewer Replacement	Project in Angels, CA	۱.								
Improvements at the I 8-inch sewer from ber trunk sewer with a 16 reduce the frequency 50 years. Replacemen for lifting of a sewer m	Booster Way/Angels Creek c neath the bridge and replac -inch stainless steel carrier p of impacts from floodwater: t of 10-inch sewer with 16-in noratorium.	rossing included, but were ing with a 10-inch sewer, a ipe. Vertical alignment of t s along Angels Creek from a nch pipeline eliminated a h	not limited to, removing ar nd replacing an existing 10- he carrier pipe was raised t approximately 1 in 10 years hydraulic bottleneck and all	n -inch o to 1 in owed			•				
Client: City of Ange	is Reference: Chris O'i	-linn chrisoflinn@ange	Iscamp.gov 209.736.24	12	_						
Wastewater T	reatment Plant Bios	olids Handling Area	Improvements in								
Dewberry designed an receive biosolids from the materials from the for offsite disposal. It existing biosolids area project components of the existing biosolids assistance during the record drawings for th	n expansion to the solids ha the treatment plant. Additioned drying beds to storage bed was critical that construction beds, thus access to the co onsisted of grading, paving, handling area. Services prov bidding period, assistance/one City.	ndling facility. Additional d onal storage areas were de s until a convenient (and le activities did not interfere nstruction area was design and designing undergrour ided by Dewberry included oversight during the constr	rying beds were designed to signed to allow movement ess-costly) time can be arran with operation of the plant ed with an alternate route. Ind drainage systems adjacen d preliminary and final desi uction period, and preparat	o of nged or The nt to gn, tion of	•				•		
Client: City of Ange	ls Reference: Chris O'	Flinn chrisoflinn@ange	lscamp.gov 209.736.24	12							
Wastewater 1	Freatment Plant (WW	(TP) NPDES Permit R	enewal in Angels, C	A							
The City's WWTP oper Dewberry assisted the Dewberry prepared th degradation analysis,	ates under a NPDES permit e City to extend the NPDES p ne application package, eval and developed final effluen	allowing discharge to surfa ermit with the Regional Bo uated historical water qual t quality limitations for Reg	ace waters during the winte ard for another five years. ity data, completed an anti- jional Board approval.	r.		•			•	•	•
Client: City of Ange	ls Reference: Chris O'l	-linn chrisoflinn@ange	lscamp.gov 209.736.24	.12							
Don Pedro Re	creation Agency (DP	RA) Sanitary Sewer S	System Alternatives								
Analysis in Tuolu	umne County, CA										
Dewberry provided ar Facilities have exceeded alternatives were eval replacements were pr pump station improve and aeration cell enha Client: Turlock Irrig	n alternatives analysis for se- ed their service life, and DPF uated and recommendatior rioritized based on criticality ements including pump repl ancements. gation District Referenc	wer systems at three camp, A needed to provide for fu is were provided for faciliti and cost. Alternatives at ea acement, force main upgra e: Bill Penney bfpenn	grounds at Don Pedro Rese Iture expansion. Multiple es at each site. Upgrades/ Ich location were identified ades, emergency power bac ey@tid.org 209.883.822	rvoir. for: kup, 22		•	•	•	•		•
Tier 1 Sewer I	Rehabilitation Projec	ts at Placer County (Government Center i	n							
Auburn, CA											
As the first major con \$80 million HHSC bui was required includir replaces World War I Client: Placer Cour	struction project following ilding was completed. In sung water, sewer, and storm I era infrastructure and cre nty Reference: Dan Ric	approval of a 200 year ma pport of the new building drain improvements. The ates a backbone for future hards drichards@place	ster plan for the PCGC, a n ;, a major infrastructure up \$11 million Tier 1 project e development. er.ca.gov 530.886.4946	ew grade			•	•		•	

Dewberry

Utilization of DBE Firms

While there is no DBE requirement currently in place with the City, the Dewberry team includes DBE firms UNICO Engineering and ATEEM Electrical Engineering, as well as SBE firm Crawford & Associates. Dewberry is committed to meeting DBE goals set forth by the City.

Conflicts of Interest

Dewberry has no personal or financial interests, either direct or indirect, that could potentially conflict with the services requested by the City.

Financial Management & Accounting Systems

Dewberry prepares its financial statements in accordance with U.S. generally accepted accounting principles (GAAP). Dewberry's Statement of Direct Labor, Fringe Benefits, and General Overhead was prepared on the basis of accounting practices prescribed in Part 31 of the Federal Acquisition Regulation (FAR) and prepared on the accrual basis of accounting. Dewberry maintains a job order cost accounting system for recording and accumulating costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the job cost accounting system. The Company's method of estimating costs for pricing purposes during the proposal process is consistent with accumulation and reporting of costs under its job cost accounting system. The accounting department has a well-established monthly close and financial reporting process. Information processing is assigned under the established accounting department organizational structure allowing all participants to clearly know who is responsible for what information. All general ledger accounts are reconciled on a monthly basis by the general ledger staff and reviewed by Financial Services Group Manager or Controller.

Dewberry also receives annual financial audit and overhead audit by independent reputable CPA firms.



PROJECT TEAM

Team Organization

The organization of our proposed team, including Dewberry and subconsultant staff, is illustrated in the chart below. Our key personnel identified for on-call water/wastewater engineering services will be available for the duration of the contract. No person designated as key will be removed or replaced without the prior written concurrence of the City. If a change is needed due to unforeseen circumstances, Dave will notify the City immediately and begin transition plan measures. He will select and propose a substitute for the City's approval who brings equal or greater qualifications to the project.





Skilled Team of Subconsultants

Dewberry has supplemented our in-house skill set with exceptionally well-qualified firms in the areas of geotechnical/materials testing, mapping, construction inspection, and electrical/SCADA design to meet the City's requirements. Our team combines top professionals from various applicable disciplines with long-standing working relationships and the institutional knowledge to successfully deliver projects to the City.

Crawford & Associates SBE	UNICO Engineering DBE, SBE, MBE	A T.E.E.M. Electrical Engineering
Crawford & Associates (Crawford) is a registered Small Business geotechnical engineering firm specializing in large-scale public works projects. Their experienced team of engineers, geologists, and technicians tackles a wide range of challenges for clients across the public sector. Crawford offers comprehensive geotechnical services, encompassing geology, construction inspection, materials testing, environmental assessments, permitting, and plan preparation. Crawford will provide geotechnical and materials testing services on this contract.	UNICO Engineering (UNICO) provides high-quality land surveying and construction management and oversight services to public and private clients. Their team has the technology and experience to address any surveying needs, construction management and oversight, construction staking, easements, aerial surveys, rights-of-way, and terrestrial LiDAR scanning. Their team is experienced in delivering projects that meet local, state, and federal requirements. UNICO will provide mapping and construction inspection and oversight services on this contract.	A T.E.E.M. Electrical Engineering (ATEEM) specializes in planning, design, and implementation of water and wastewater electrical power distribution, instrumentation, and SCADA control system projects. With trained professional engineers, ATEEM also provides electrical system evaluations, radio path survey verification, and SCADA/PLC programming and training. ATEEM will provide electrical and SCADA services on this contract.

Proposed Key Team Personnel

This section includes overviews of our proposed key team members. Please reference **Appendix A** for detailed resumes of the proposed team. Projects listed under qualifications can be found in each individual's resume.

NAME	QUALIFICATIONS	LOCATION						
Dave Richard, PE, PROJECT/CONTRACT MANA	GER	RANCHO CORDOVA, CA						
 YEARS OF EXPERIENCE: 47 YEARS W/ DEWBERRY: 7 REGISTRATION: PE • CA • 33479 EDUCATION: MS • Environmental Engineering • University of California, Davis BS • Civil Engineering (Sanitary) • Michigan Technological University 	 City of Angels, Critical Water and Wastewater Ir Placer County, Placer County Government Center City of Vacaville, Downtown Utility Improvement City of Angels, Booster Way Sewer Replacement 	Infrastructure Protection Project hter Tier 1 Infrastructure Improvements ents Project ent Project						
Max Hardy, PE, STRUCTURES ENGINEER		RANCHO CORDOVA, CA						
 YEARS OF EXPERIENCE: 10 YEARS W/ DEWBERRY: 2 REGISTRATION: PE • CA • 93472 EDUCATION: BS • Civil Engineering • California State University, Sacramento 	 City of Manteca, Storm Drain Zone 36/Zone 39 Imp Placer County, Atwood 3 Pump Station Improve Naval Facilities Engineering Systems Command Combat Center, Wastewater Treatment Plant, T 	provements Project ments Southwest, Marine Corps Air Ground wentynine Palms						
🏶 Dewberry [.]		PROJECT TEAM 8						

CITY OF ANGELS | STATEMENT OF QUALIFICATIONS FOR ON-CALL ENGINEERING SERVICES

NAME		QUALIFICATIONS	LOCATION
Khuong "K	(T'' Tran , EIT, PROJECT ENGINEER		MANTECA, CA
()	YEARS OF EXPERIENCE: 6 YEARS W/ DEWBERRY: 6 REGISTRATION: EIT • CA • 168767 EDUCATION: MS • Engineering Science • University of the Pacific BS • Civil Engineering • University of the Pacific	 City of Angels, Critical Water and Wastewater In Placer County, Placer County Government Center City of Vacaville, Downtown Utility Improvement City of Placerville, Hangtown Creek Trunk Sewent 	nfrastructure Protection Project er Tier 1 Infrastructure Improvements its Project r Main Relocation Project
Jeff Bray , P	PERMITTING LEAD		RANCHO CORDOVA, CA
e	YEARS OF EXPERIENCE: 31 YEARS W/ DEWBERRY: 3 EDUCATION: BS • Wildlife Biology • Humboldt State University	 Calaveras County Water District, Copper Cove V Improvement Project City of Placerville, Hangtown Creek Trunk Sewer City of Manteca, Storm Drain Zone 36/Zone 39 Imp 	Vastewater Treatment Plant Tertiary r Main Relocation Project provements Project
Christa Re	dd , ceqa lead		RANCHO CORDOVA, CA
e	YEARS OF EXPERIENCE: 26 YEARS W/ DEWBERRY: 6 EDUCATION: MS • Natural Resources & Environmental Science • University of Nevada BS • Environmental Science • Oregon State University	 City of Manteca, Storm Drain Zone 36/Zone 39 Imp Calaveras County Water District, Copper Cove V Improvement Project City of Placerville, Hangtown Creek Trunk Sewen 	provements Project Vastewater Treatment Plant Tertiary r Relocation Project
Jennifer H	owry, CULTURAL LEAD		RANCHO CORDOVA, CA
e	YEARS OF EXPERIENCE: 17 YEARS W/ DEWBERRY: 12 EDUCATION: MS • Environmental Management • University of San Francisco BS • Anthropology • University of San Francisco	 City of Angels, SR 49 Water Line Project City of Placerville, Hangtown Creek Trunk Sewer Calaveras County Water District, Arnold Wastev Project 	r Main Relocation Project water Treatment Facility Improvement
Rehecca N	eilon FLINDING LEAD		RANCHO CORDOVA CA



YEARS OF EXPERIENCE: 21 YEARS W/ DEWBERRY: 8 REGISTRATION: PE • CA • 73737 EDUCATION: BS • Civil Engineering • California Polytechnic State University

- City of Angels, On-Call City Engineering Services
- Port of Long Beach, Pier B On-Dock Rail Expansion Project (\$228M awarded)
- Port of Long Beach, Fourth Track at Ocean Boulevard Project (\$8M awarded)



PROJECT TEAM 9

CITY OF ANGELS | STATEMENT OF QUALIFICATIONS FOR ON-CALL ENGINEERING SERVICES

Benjamin Crawford, PE, GE, GEOTECHNICAL & MATERIALS TESTING



FIRM: Crawford & Associates YEARS OF EXPERIENCE: 21 YEARS W/ CRAWFORD: 11 REGISTRATION: PE • CA • 68457 GE • CA • 2861 EDUCATION: BS • Civil Engineering • California Polytechnic State University

- SACRAMENTO, CA
- San Andreas County, San Andreas Wastewater Treatment Plant Pond D Expansion
- Sacramento County, Grant Line Road Pavement Repairs
- City of Oakdale, Sewer Line Replacement Project

Rob Markes, MAPPING



FIRM: UNICO Engineering YEARS OF EXPERIENCE: 37 YEARS W/ UNICO: 11

- FOLSOM, CA
- City of Angels, Mark Twain Water Systems Improvements
- City of Angels, Booster Way Sewer Replacement
- City of Angels, East Angels Trunk Sewer/Vallecito Road Sewer Replacement

Lacey Smith, PE, QSD, CONSTRUCTION INSPECTION & OVERSIGHT



FIRM: UNICO Engineering YEARS OF EXPERIENCE: 17 YEARS W/ UNICO: 5 REGISTRATION: PE • CA • 78363 EDUCATION: MS • Civil Engineering • University of California, Davis BS • Structural Engineering •

University of California, San Diego

- FOLSOM, CA
- Calaveras County, Canyon View Drive Slide Repair
- Calaveras County, Gwin Mine Road Slide Repair
- Calaveras County, Jesus Maria Road Reconstruction

Sharon Kimizuka, PE, ELECTRICAL / SCADA



FIRM: A T.E.E.M. Electrical Engineering YEARS OF EXPERIENCE: 34 YEARS W/ ATEEM: 31 REGISTRATION: EE • CA • 15698 EDUCATION: BS • Electrical Engineering • University of California, Irvine

SACRAMENTO, CA

- El Dorado Irrigation District, Emergency Backup Generator Upgrades
- Calaveras County Water District, West Point & Wilseyville WWTF
- Placer County Water Agency, French Meadows South Shore Water Supply Project



APPROACH & METHODOLOGY

Understanding of Project Scope and Duties

In Dewberry's role as the City On-Call Water and Wastewater Engineer for the last six years, we have served as an extension of City staff and provided technical support to the Public Works Department, Engineering Department, Planning Department, Fire Department, Finance Department, and Administrative Services Department. We have responded to specific requests and special assignments from the City Administrator and represented the City with the Regional Water Quality Control Board, State Water Resources Control Board - Division of Drinking Water, Department of Water Resources Division of Dam Safety, and the California Office of Emergency Services. We also served as the Legally Responsible Official for the City and reported any sanitary sewer overflows to the State Water Resources Control Board.

We have undertaken multiple assignments through specific project-related task orders or as-needed services under general task orders. We understand the scope of the on-call water/wastewater engineer as demonstrated by the prior execution of the following services:

- Project management including evaluation, programming, design, and construction of the new five-year Water and Wastewater Capital Improvement Program
- Oversight of the solicitation of proposals for design and construction including the bid and advertisement process for projects, evaluation of proposals, recommendation for project award, negotiation and administration of contracts for construction projects for the City Wastewater Treatment Plant Biosolids Handling Area Improvements Project, Booster Way Sewer Replacement Project, and Mark Twain Water Distribution System Improvements Project
- Defining project scope, determining project budgets, and identifying funding for 16 water/wastewater capital improvement projects
- Identifying the grant opportunity, developing and preparing the grant application, and providing requested documentation for the CalOES grant for the Critical Water and Wastewater Infrastructure Protection Project
- Preparing plans and specifications for the City Wastewater Treatment Plant Biosolids Handling Area Improvements Project, Booster Way Sewer Replacement Project, Mark Twain Water Distribution System Improvements Project, SR 49 Water System Improvement Project, and Vallecito Road Sewer Replacement Project
- Providing permit assistance for operation of the water and wastewater treatment plants

- Providing emergency response assistance to Chris O'Flinn during the 2023 flood event in the City
- Managing the Critical Water and Wastewater Infrastructure Project and the Emergency Operations Plan and Floodwater Plan which is federally funded through FEMA
- Serving as an interface with Caltrans, PG&E, and other service providers planning improvements within the City right-of-way
- Performing right-of-way engineering, mapping and surveying for the City Wastewater Treatment Plant Biosolids Handling Area Improvements Project, Downtown Sewer Replacement Project, Booster Way Sewer Replacement Project, Mark Twain Water Distribution System Improvements Project, Vallecitos Road Sewer Replacement Project, SR 49 Water System Improvement Project (Eureka Oaks), and Purdy Road Water and Sewer Improvements Project
- Providing engineering support to the Planning Department in the review of development proposals
- Attending City Council meetings to present staff reports and respond to questions
- Providing construction oversight and inspection services for the City Wastewater Treatment Plant Biosolids Handling Area Improvements Project and Booster Way Sewer Replacement Project
- Assisting the City Administrator in implementation of the Capital Improvements Program

We anticipate similar responsibilities and duties going forward and can commit the resources required to execute these tasks effectively. In providing on-call water and wastewater engineering services, we will focus on the **six objectives** described on the following pages.



OUR SUCCESSFUL CONTRACT MANAGEMENT APPROACH IS BUILT ON SIX KEY OBJECTIVES:



1. Deliver Five-Year Water and Wastewater Capital Improvement Program

The City adopted a five-year Water and Wastewater Capital Improvement Program (CIP) in September 2024 based on recommendations presented by Dewberry in collaboration with City staff. A total of 16 projects were identified including water transmission, distribution, and treatment system improvements; and wastewater rehabilitation, repair, and replacement work. The locations of these projects are illustrated in the accompanying graphic.



Five-Year Water and Wastewater CIP Locations

Since adoption of the CIP, the most critical wastewater project, Booster Way Sewer Replacement Project, has been completed under budget, and construction is underway on water system improvements along SR 49 in support of the Habitat for Humanity's Eureka Oaks workforce housing project. An upgrade of the water distribution system near Mark Twain Elementary School has been bid with construction to begin in May. The Vallecito Road Sewer Replacement Project has been submitted to the City Engineer for review, and design of the Purdy Road Water and Sewer Improvements and Water Meter Replacement Projects are near completion. Continued implementation of the City CIP by the City Water/Wastewater Engineer is envisioned as outlined in the overall project delivery schedule shown on the following page. Driving these projects forward will serve as our primary responsibility in helping the City to build a more sustainable infrastructure system.

Dewberry

CITY OF ANGELS			20)25			20	26			2027				2028				2029			
FIVE-YEAR CAPITAL IMPROVEMENT PLAN SCHEDULE		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
WATER PROJECTS													,					,,				
PROJECT NUMBER	PROJECT NAME																					
WTP-1	Backwash Handling Improvements																					
WTP-2	Transmission Main Replacement																					
WTM-1	Murphys Grade Road Transmission Main Upgrade																					
WTM-2	SR 49 Transmission Main Upgrade																					
WDP-1	Mark Twain Water Distribution System Improvements																					
WDP-2	Hillcrest/Gold Cliff/McCauley Ranch Road Water System Improvements																					
WDP-3	Automated Meter Reader Project - Phase 1																					
WDP-4	Pressure Relief Valve Replacements																					
WASTEWATER PRO	DJECTS																					
PROJECT NUMBER	PROJECT NAME																					
WWTP-1	Emergency Storage Basin Improvements																					
WWTP-2	Grit Removal Systems																					
WWCS-1	Vallecito Road Sewer Replacement																					
WWCS-2	East Angels Trunk Sewer Rehabilitation																					
WWCS-3	Main Street Sewer Replacement																					
WWCS-4	Murphys Grade Road Sewer Rehabilitation																					
WWCS-5	North Angels Sewer Replacement																					
WWCS-6	Purdy Road Sewer Improvements (I/I Project)																					
WWPS-1	Angels Oaks Pump Station Improvements																					

LEGEND:

DESIGN

BID PERIOD

CONSTRUCTION

2. Maintain Regulatory Compliance

The City water and wastewater systems are regulated by federal, state, and local agencies. Permits include NPDES, wastewater discharge requirements, and water reclamation requirements for the wastewater treatment plant and water supply requirements for the water treatment plant. Reporting of sanitary sewer overflows to the State Water Resources Control Board is also a requirement for the Legally Responsible Official (LRO) as part of the approved Sanitary Sewer Management Plan. Recognizing that regulatory compliance is essential for system performance and a pre-requisite for possible funding opportunities, Dewberry has supported and will continue to support Chris O'Flinn in all regulatory/reporting functions, including:

- Preparation of technical reports
- Meetings with regulators as part of annual inspections
- Assistance in responding to regulatory requests for information or special reports
- Development of documentation associated with permit renewals and revisions
- Providing advice and troubleshooting operational issues related to permit compliance
- Obtaining waivers from DDW for water and sewer line construction

3. Support Public Works Department

The on-call water/wastewater engineer represents an extension of staff for the Public Works Department and provides technical support for various operations and activities. Responsibilities will typically include:

- Serving as a liaison to Caltrans and coordinating requested City feedback and information exchanges
- Assisting with response to specific homeowner questions and concerns
- Coordinating Public Works Department technical information transfers to other City departments
- Investigating regulatory issues that may impact Public Works actions and responsibilities
- Assisting Chris O'Flinn in the development of requests for proposal/plans for CIP projects

4. Collaborate with Community Planning

Amy Augustine, City Planner, serves a critical role in project development and implementation in the areas of CEQA compliance, public outreach, stakeholder notification, and funding acquisition. Our collaborative efforts with Amy going forward with our on-call engineering team will include the following:

ENVIRONMENTAL STAFF

- Preparation of special technical studies to support CEQA documentation. Special studies may include Foothill Yellow-Legged Frog and California Red-Legged Frog (near aquatic sources), Nesting Birds, Special Status Plant Species, Historic Era Resources, and Pre-Contact Resources
- Assistance with CEQA compliance (IS/MND, CE)
- Liaison/assistance for permitting with resource agencies
- Pre-construction surveys
- Training of construction personnel in environmental awareness

FUNDING ACQUISITION STAFF

- Work with City staff to understand City priorities and which of the priority projects would be most competitive for grant funding
- Complete all aspects of grant funding applications, including clearly written project scope, cost estimates, schedule, cost-benefit analysis, community outreach, stakeholder support, and submittal to granting agency
- Assist with administering grant-funded projects to confirm compliance with funding agency requirements

ENGINEERING STAFF

- Development of strategies for right-of-way acquisition/ right-of-entry procurement for Public Works projects
- Preparation of plats and legals to facilitate approvals of right-of-entry
- Preparation of newsletters and other project information as part of public outreach efforts
- Assistance with responding to property owner questions regarding water/wastewater service



5. Keep City Administrator and City Council Informed and Engaged

Pam Caronongan and the City Council take a very hands-on approach relating to capital improvement projects, schedules, and potential public impacts. Recognizing the priority the City Council has placed on infrastructure improvements, we will focus on communication and transparency in our approach, including:

- Weekly conference calls with Pam and other key City staff to brief on current projects status
- Participation in bi-weekly staff meetings with other City departments to coordinate work efforts and priorities
- Preparation of staff reports three weeks in advance of City Council meetings to allow for vetting and review by Finance, Administration, and Legal departments
- Presentations to City Council and responding to questions from the public

6. Improve Water/Wastewater Services

There is an expectation by the public and City Council that planned physical improvements to the water and wastewater systems will result in better water and sewer service. In project development, we will look carefully at features that can be incorporated into proposed improvements that directly result in improved levels of service such as:

- Increased water delivery pressures during peak summer demand periods
- Increased water pressure for fire protection
- Elimination of dead-end pipelines to limit service interruptions in the event of a pipeline break
- Greater supply reliability during a catastrophic event
- Less frequent sewer blockages resulting in sewer overflows

In pushing approved projects forward as the on-call engineer, we will look to highlight resulting improved levels of service and the benefits to City customers.



Project Management Plan

Our project management plan emphasizes communication/engagement, consistency in project development, managing budgets and schedule, and incorporating process improvements. We will focus on responsiveness, accountability for project completeness, and supporting City staff in their roles. A more detailed discussion of our project management approach is presented below.

🖵 Communicate with Key Stakeholders

Our on-call team will proactively engage key stakeholders, including Caltrans, Utica Water and Power Authority (UWPA), Regional Water Quality Control Board, and State Division of Drinking Water during project development. Outreach includes:

- Discussions to determine key issues and concerns
- Periodic briefings to show progress and anticipated schedule
- Face-to-face meetings to review deliverables and to confirm resolution of concerns.

Clearly Define Project Goals and Scope of Services

The foundation for effective project management begins with a clear definition of the City's desired goals and associated scope of services. Although the approved water and wastewater capital improvement program provides an overall framework for each project, the extent of improvements will be confirmed with City staff at a project kick-off meeting. Specific project goals and objectives will be discussed and how the improvements will satisfy these goals will be documented. Required actions by the engineering and environmental teams will be identified and a project workplan will be produced, including a tentative schedule that will be referenced throughout project development and submittal/processing of design documents.

Apply Consistent Methodology in Project Development

One of the key objectives in project management is to avoid surprises during project development that will result in re-work or schedule delays. A consistent methodology focused on due diligence, engagement of key stakeholders, and multiple opportunities for staff input will be applied for each project. Specific steps are as follows:

- Project kick-off meeting to establish goals and objectives
- Outreach to key stakeholders to gather information and to solicit any concerns
- Initiation of A, B, and C utility letter process to develop baseline information
- Site walk with City staff to identify opportunities and constraints
- Preparation of basis of design memorandum including results of hydraulic modeling for review by Public Works Department
- Submittal of draft design documents to City Engineer and City Planner for review and comment
- Development of CEQA documents and permit applications
- Incorporation of review comments, mitigations, and permit requirements into final construction documents





🏥 Engage City Staff

Consistent project communication and coordination are essential for projects with multiple design elements. Engaging City staff will include the following:

- Weekly virtual meetings with City staff and the design team
- Monthly face-to-face meetings with City staff to assess progress, to vet concerns, and to adjust focus (if appropriate) for the upcoming month
- Preparation of monthly status reports including budget and schedule updates, list of accomplishments, projected activities for the next billing cycle, summary of information needs, and critical decisions needed and their impacts on schedule
- Attendance and participation in planning and design review meetings

Manage Budget and Schedule

Keeping projects on schedule will be accomplished by:

- Breaking down the overall schedule into more manageable increments or activities and monitoring progress on a weekly basis
- Creating action item lists with specific assignments that can be reviewed during weekly internal progress meetings
- Establishing interim milestones for deliverables that encourage staff to memorialize accomplishments and to create work products that mimic final deliverables
- Sharing updated schedules with staff and discussing how to accelerate the schedule to create "float" in the event that future activities extend beyond planned durations
- Adjusting resources or re-assigning staff if interim milestones are not being achieved and schedule slippage begins to occur
- Communicating to City schedule status and discussing possible future events that could impact the schedule adversely at monthly progress meetings
- Identifying methods to bring the project back on schedule including additional team resources and increased collaboration with the City

A positive side effect to keeping on schedule is that staying within budget is simplified. Both schedules and budgets are driven by available resources. If work is accomplished such that predicted milestones are reached on time, then the project is likely within budget. The key is to know where the project stands financially on a real-time basis. For the projects, labor costs will be tracked on a weekly basis and compared to predicted expenditures and schedule status. Any disconnects between budget and schedule can then be identified quickly and recovery methods employed to bring the two parameters back into alignment.

🧟 Leverage Lessons Learned

As projects are completed and constructed, lessons will be learned regarding permitting, biddability, and constructability. To improve subsequent projects, these lessons will be documented with City staff and then incorporated into future project documents. Recent lessons learned from the Booster Way Sewer Replacement Project, SR 49 Water Systems Improvements Project, and Mark Twain Water Distribution Systems Improvement Project include the following:

- Importance of providing comprehensive definitions of each bid item to avoid misunderstandings in processing progress payments during construction
- Incorporating extended processing time for acquiring waivers from the Division of Drinking Water or encroachment permits from Caltrans in project schedules to avoid potential delays
- The need to address the removal of hard rock materials for pipeline projects

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Quality Control

Quality control represents an essential element in our approach to project delivery. As an ISO 9000-certified engineering firm, Dewberry established a rigorous quality control program that begins at project conception and extends through final approval of documents by the City. Key attributes of the quality control program include:

- Assignment of staff whose skillset matches the project requirements
- Designation of a quality control/peer review individual for the project duration
- Confirmation that all design team members have access to required design criteria and standards
- Use of project-specific checklists by the design team to establish expectations for completeness and sufficient due diligence
- QC review of project deliverables prior to submission to City
- Certification by the project team that deliverables are complete and ready for submission
- Submission of documentation to the City demonstrating compliance with the quality control program



In executing the quality control program, the following actions will be undertaken:

- **Due diligence** will be confirmed including record research, field confirmations, outreach to key stakeholders, and collaboration with City staff
- Compliance with City standards will be verified including approved materials, procedures, testing, and acceptance
- Consistency with relevant codes will be validated, including state and federal requirements
- Plans and specifications will be reviewed to determine consistency and to identify any conflicts requiring resolution; the completeness of plans and specifications will also be assessed to minimize potential contractor questions during construction
- Completeness and clarity of bidding documents will be reviewed to avoid misunderstandings or misinterpretations during the bidding process
- Constructability of the project will be evaluated to identify potential impacts and issues that could trigger construction change orders and project delays



Methodologies for Addressing Typical Challenges Encountered in Water and Wastewater Projects

Your project manager, Dave Richard, has delivered water and wastewater projects to public agencies since 1978. Based on experience working for the City since 2011, typical challenges encountered during design include the following:



Methodologies to address these challenges are presented within this section, along with highlighted project examples where these methodologies were employed successfully.





METHODOLOGY:

- Develop utility cross-sections
- Outreach to Public Works staff
- Discuss constraints with local contractors
- Consider utility relocations



SIMILAR CHALLENGE AND SOLUTION:

PLACER COUNTY GOVERNMENT CENTER TIER 1 WATER, SEWER, AND STORM DRAIN IMPROVEMENTS PROJECT, CITY OF AUBURN

Multiple utilities were proposed for the primary arterial roadway through the government campus including water, sewer, and storm drain backbone infrastructure. Existing utilities dated back to the mid-1940s when the site was used as an army hospital. Leveraging a utility database, cross-section models depicting existing utilities were created at 100-foot intervals to determine and confirm underground "corridors" that could be used to route new replacement utilities. The cross-sections were used to identify required utility relocations to facilitate proposed infrastructure improvements.

CHALLENGE: MINIMIZING CONSTRUCTION IMPACTS

METHODOLOGY:

- Maintain system operation throughout construction
- Limit impacts to public
- Consider staged construction
- Consider environmental constraints



SIMILAR CHALLENGE AND SOLUTION: PLACER COUNTY GOVERNMENT CENTER ATWOOD 3 PUMP STATION REPLACEMENT, CITY OF AUBURN

Complete re-build of submersible wastewater pump station was undertaken with no interruption of service to extensive, residential neighborhood. Construction was staged and a temporary pumping system with emergency power was installed to allow for sequential work including start-up and testing of new wet well and pumps prior to cut-over and decommissioning of existing facilities.

5

CHALLENGE: MANAGING CONSTRUCTION BUDGET

METHODOLOGY:

- Value engineering
- Keep project within original scope of improvements
- Repurpose facilities
- Leverage other projects
- Develop phasing



SIMILAR CHALLENGE AND SOLUTION: OAKWOOD LAKE WATER DISTRICT LIFT STATION 4, SAN JOAQUIN COUNTY

A new pump station was constructed within the wastewater treatment plant to divert wastewater to a connection within the City of Manteca trunk sewer. Site was chosen to minimize construction costs and to allow for re-purposing of existing facilities including piping, electrical equipment, and emergency storage ponds. Future construction of 48-inch pipeline/outfall structure through plant site was leveraged to minimize initial costs for the lift station improvements.

COMPLIANCE WITH FEDERAL PROCUREMENT REQUIREMENTS

Compliance with Federal Procurement Requirements

Dewberry has partnered with the federal government for more than 60 years. We provide a broad range of infrastructure and facilities services for Department of Defense (DoD), US Coast Guard, Department of Veterans Affairs, and the Intelligence Community. We support disaster response and flood risk mapping contracts for FEMA, and we are a leading provider of geospatial services for USGS, NOAA, and DoD clients. We have provided services to federal agencies including:

- Department of Agriculture
- Department of Energy
- Department of Homeland Security
- Department of Justice
- Department of Transportation
- Department of the Treasury
- Environmental Protection Agency
- Small Business Administration
- US Army Corps of Engineers
- US Air Force

- US Fish and Wildlife Service
- US Marine Corps
- US Navy

Based on our extensive experience providing our services to the federal government, we can confirm that we understand and can successfully comply with all applicable federal procurement requirements.

Dewberry maintains an active entity registration in the System for Award Management (SAM), an official website of the US General Services Administration that is utilized for federal procurement. Below is a copy of our SAM entity registration as documentation demonstrating Dewberry's eligibility to perform federal contracts.

If you have any questions or need additional information, please reach out to our Federal Contracting Administrator, Howard Perlmutter, via email at hperlmutter@dewberry.com, or by phone at 703.208.6872.

DEWBERRY ENGINE	ERS INC. • Active R	Registration	Ent
Unique Entity ID K3WDSCEDY1V5	CAGE Code 4DJX0	Physical Address 8401 ARLINGTON BLVD, FAIRFAX, VA 22031 USA	Expiration Date Feb 10, 2026

Purpose of Registration All Awards

Entity

CONSULTANT QUALIFICATIONS & REFERENCES

Dewberry References

References for our project team are highlighted below, and three references for each subconsultant team member can be found on the following pages.

Lift Station 4 SAN JOAQUIN COUNTY, CA

The \$3.3 million project constructed a new sanitary sewer lift station and force main system. The project involved construction of a new piping network, wet well with pumps, large concrete structures, electrical systems, mechanical systems within the existing WWTP, and pipelines within City streets. The project also included

OAKWOOD LAKE WATER DISTRICT

Bert Michalczyk, District Engineer bert.michalczyk@gmail.com 925.570.8830

• **DURATION** 2020 - 2024



domestic water and storm drain upgrades. Preliminary design was undertaken and a Basis of Design Report was prepared identifying pump station requirements including alternatives, hydraulics, odor control, and provisions for electrical/instrumentation. The report also provided information on metering flows from a mobile home park, site improvements, and construction sequencing.

Don Pedro Recreation Agency Swim Lagoon Filter System TURLOCK, CA

Dewberry designed the replacement of a 2.0 mgd pressure filter system at a recreational swimming lagoon. Don Pedro Recreation Agency, in collaboration with Turlock Irrigation District, purchased a new filtration system to be

TURLOCK IRRIGATION DISTRICT Bill Penney, Civil Engineer

Bill Penney, Civil Engineer bfpenney@tid.org 209.883.8222

• **DURATION** 2020 - 2022



installed within an existing facility footprint. Design responsibilities included preparation of installation drawings for \$350,000 pre-purchased filtration equipment including piping and structural support systems, review of shop drawings from equipment suppliers to identify scope of work for installation contractor, preparation of construction drawings for new motor control center and SCADA interface, confirmation of existing conditions through detailed field measurements, and development of extensive construction sequencing documents. Construction period was coordinated with seasonal use of swimming lagoon from April – October.

Storm Drain Zones 36 and 39 Improvements MANTECA, CA

Dewberry designed a conveyance system to receive stormwater flows from Zones 36 and 39. The system will consist of a 66-inch diameter gravity drain with connections from detention basin pump stations serving the various

• CITY OF MANTECA

Greg Showerman, Deputy Engineering Director gshowerman@ci.manteca.ca.gov 209.571.5860

 DURATION 2020 - PRESENT



future developments in the drainage service area. Flows will be routed to a 120 cfs storm drain pump station (SDPS). The SDPS will then convey stormwater through a 2,600 ft long 48-inch diameter force main to an outfall structure situated along a levee discharging to the San Joaquin River through twin 30-inch diameter pipelines. The pumping plant will have a firm capacity of 120 cfs and will consist of two low-flow vertical turbine pumps, each with a capacity of 30 cfs (250 horsepower per pump); three high-flow vertical turbine pumps, each with a capacity of 60 cfs (750 horsepower per pump); and two standby generators sized to operate each set of pumps during a power outage.



Subconsultant References

RESPONSIBLE FIRM:

Crawford & Associates

CLIENT CONTACT:

City of Modesto William Wong, Director of Utilities wwong@modestogov.com 209.571.5801

DURATION:

2014 - 2023

River Trunk Sewer Rehabilitation STANISLAUS COUNTY, CA

The River Trunk is one of five sewer pipelines serving the Sutter Primary Treatment Facility. Its current location in the Tuolumne River floodplain makes it vulnerable due to erosion and signs of corrosion. To address this, the City plans to construct a new pipeline with a revised alignment that avoids the floodplain, merges parts of the Sutter Trunk, and provides increased capacity. Crawford prepared a Geotechnical Report, which included subsurface exploration by Geo-Ex, soil logging, lab testing, and groundwater observation.

RESPONSIBLE FIRM:

Crawford & Associates

CLIENT CONTACT:

Stanislaus County Chris Brady, Deputy Director bradyc@stancounty.com 209.525.4130

DURATION:

2019 - 2020

Stanislaus County Sewer Project MODESTO, CA

Crawford & Associates completed Geotechnical Reports for each of the three areas. The reports include characterization of subsurface conditions using exploratory borings and laboratory soils test results, groundwater, CBC seismic design values, key geotechnical and construction considerations including material excavatability, stability (including preliminary OSHA soil types), use of excavated soils as backfill, compaction, unstable subgrade mitigation options, pipe support including subgrade modulus, dewatering considerations, and new pavement sections.

RESPONSIBLE FIRM:

Crawford & Associates

CLIENT CONTACT:

City of Modesto Pete Kambel pkambel@modestogov.com 209.525.4130

DURATION:

2009 - 2011



Shackelford Area Sanitary Sewer Pipeline MODESTO, CA

Prepared a Geotechnical Report for the proposed sewer pipeline replacement project in southern Modesto. The project will consist of installing two, 400 foot long, 18" diameter sewer pipelines under the Tuolumne River. Horizontal direction drilling methods were proposed for the installation of the new, dual pipelines. Oversaw the preliminary coordination, fieldwork, and prepared the report for the project. Also performed a seismic hazard evaluation for the project.

RESPONSIBLE FIRM:

UNICO Engineers

CLIENT CONTACT:

City of Lincoln Araceli Cazarez araceli.cazarez@lincolnca.gov 916.434.2486

DURATION:

2023 - 2024

RESPONSIBLE FIRM:

UNICO Engineers

CLIENT CONTACT:

Calaveras County Robert Pachinger rpachinger@co.calaveras.ca.us 209.754.6402

DURATION:

2021 - Ongoing

Joiner Parkway Rehabilitation, Phase 2 LINCOLN, CA

This \$2.3M project rehabilitated the pavement along Joiner Parkway from Moore Road to just south of Third Street. Joiner Parkway is a four-lane street that functions as an arterial with adjacent residential and commercial including a gas station, fire station, community center, school and undeveloped parcels. The existing conditions of the roadway showed signs of pavement degradation, base failures, weathering, other pavement distress, and non-compliant ADA curb ramps. The project includes full depth reclamation with concrete (FDR-C) with hot mix asphalt (HMA) paving; microsurfacing; lighting, push button assemblies, and loop detection modifications; and reconstruction of pedestrian access ramps to meet current ADA standards. UNICO provided full construction management services, including resident engineer, inspection, officer engineer, public outreach, and materials testing.

SR 4/Wagon Trail Realignment, Phase 1 SAN ANDREAS, CA

As a major east-west connector through southern Calaveras County, this \$30M project along SR 4 provides access from the San Joaquin Valley to the Sierra Nevada Mountains. Within the County, the two-lane highway traverses mostly rural farmland, characterized by a rolling terrain that supports rock outcroppings, seasonal streams, and natural vegetation, as well as agricultural operations. This first phase realigns approximately three miles of SR 4 from Bonanza Mine Way to Appaloosa Road to meet current design standards, as well as enhance safety and improved sight distance. The project includes multiple box culverts from 50-100 feet in length, 60" diameter reinforced concrete pipe drainage structures, numerous cast-in-place concrete retaining walls, and 3,000-feet of MSE walls. UNICO provided land surveying services under the design contract, and is currently providing full construction management services.

RESPONSIBLE FIRM:

UNICO Engineers

CLIENT CONTACT:

City of Citrus Heights Regina Cave rcave@citrusheights.net 916.725.2448

DURATION:

2014 - Ongoing

On-Call Survey Services CITRUS HEIGHTS, CA

UNICO is currently under contract with the City of Citrus Heights to perform on-call construction inspection, surveying, and materials testing services. The work is performed under a task order basis and includes a variety of Capital Improvement Projects. Since June 2014, the following task orders that have included land surveying have been completed:

- Sayonara Drive Boundary Survey
- Huntington Square Trail Easement
- Charolais Way IOD Survey Verification and Plats and Legals
- Garry Oaks and Old Auburn Topo Survey, Base Mapping, and Drafting
- Electric Greenway Trail Easement
- Dignity Health Medial Office Public Utility Easement
- Auburn Boulevard Survey and Right of Way Staking San Tomas to Crosswoods
- Electric Greenway Ingress/Egress Plats and Legal Descriptions

💔 Dewberry[.]

RESPONSIBLE FIRM:

ATEEM Electrical Engineers

CLIENT CONTACT:

Placer County Water Agency Kelly Shively, Engineering Manager kshively@pcwa.net 530.823.4883

DURATION:

1992 - Present

On-Call Electrical Design/Construction Services

AUBURN, CA

ATEEM staff has provided electrical/design construction services, SCADA configuration and PLC programming services since 1992. PLC programming and SCADA configuration were provided for monitoring the 30 original remote sites at Foothill WTP. ATEEM has also had an Annual Services Contract with the Agency since 1999 to provide electrical engineering design, construction services, SCADA graphics, and PLC programming. Recent annual contracts have been for design and construction services only.

RESPONSIBLE FIRM:

ATEEM Electrical Engineers

CLIENT CONTACT:

Calaveras County Water District Kevin Williams, Engineering Manager kevinw@ccwd.org 209.754.3184

DURATION:

1993 - Present

On-Call Electrical Design/Construction Services

SAN ANDREAS, CA

ATEEM staff has provided electrical design services since 1993 and SCADA configuration and PLC programming services since 1998. PLC programming and SCADA configuration were provided for five water treatment plants and two wastewater treatment plants. ATEEM has also had an Annual Services Contract with the District since 2002 to provide electrical engineering design, construction services, SCADA graphics, and PLC programming.

RESPONSIBLE FIRM:

ATEEM Electrical Engineers

CLIENT CONTACT:

City of Hayward Ben Foreman, Engineering Manager benji.foreman@hayward-ca.gov 210.881.7978

DURATION:

2011 - Present

On-Call Electrical Design/Construction Services

HAYWARD, CA

ATEEM staff has provided electrical design services since 2011 and SCADA configuration, and PLC programming services since 2012. Radio troubleshooting, PLC programming, and SCADA configuration have been provided throughout their system. ATEEM has had an on-call contract with the City since 2012 to provide SCADA graphics and PLC programming. Electrical engineering design services were provided as needed.



CONTRACT COMMENTS

It is our understanding that the current contract agreement between the City and Dewberry would be used for future services. The terms and conditions of this agreement are fair and equitable and we would be pleased to continue our six-year contractual relationship with the City under an identical agreement.

Dewberry

APPENDIX A: Resumes





FIRM Dewberry

EDUCATION

MS • Environmental Engineering • University of California • 1992

BS • Civil Engineering (Sanitary)Michigan TechnologicalUniversity • 1978

REGISTRATIONS Professional Engineer • CA • 33479

YEARS OF EXPERIENCE Dewberry • 7

Total • 47

Dave Richard, PE PROJECT/CONTRACT MANAGER

As a Principal Engineer and leader of Dewberry's Northern California water/wastewater group, Dave has 47 years of experience in water resources and wastewater engineering, specializing in water supply and distribution; wastewater conveyance, treatment, reuse, and disposal; and stormwater conveyance. Dave has been responsible for the condition assessment, planning, design, permitting, construction oversight, startup, trouble-shooting, and peer review of water supply, treatment, storage, and distribution system improvements for agencies in Calaveras, Fresno, Placer, Sacramento, San Diego, San Joaquin, Solano, Stanislaus, Tuolumne, and Yolo counties. Projects have included design of new and rehabilitation/repair/replacement of existing infrastructure including surface water treatment plant improvements, transmission pipelines, storage reservoirs, distribution systems, and pumping plants. Pump station capacities have ranged from 250 gal/min to 20 mgd. In support of bridge replacement projects, Dave has served as the lead engineer for water, wastewater, and sewer relocations.

Critical Water and Wastewater Infrastructure Protection Project, City of Angels

Project Manager and Contract City Water/Wastewater Engineer for design services for the City of Angels. Improvements include removing an 8-inch sewer from beneath a bridge and replacing with a 10-inch sewer, and replacing an existing 10-inch trunk sewer with a 16-inch carrier pipe within a 24-inch steel casing. Vertical alignment of the carrier pipe will be raised to reduce the frequency of impacts from floodwaters along Angels Creek from approximately 1 in 10 years to 1 in 50 years. Protection for approximately 1,675 LF of existing 12-inch trunk sewer along Angels Creek will be provided by installing a structural line, and water line crossings of Angels Creek at Vallecito Road and Main Street will be armored by replacing exposed 6-inch waterlines with 8-inch waterlines within 16-inch steel casings.

Placer County Government Center (PCGC) Tier 1 Infrastructure Improvements, Placer County

Project Manager for design of the first phase of utility improvements for the 200-ac PCGC. Tier 1 improvements are intended to support construction of a new Health and Human Services Center. Infrastructure improvements include 5,750 ft of 12-inch waterline, 2,300 ft of 15- and 18-inch sewer, 950 ft of 24- and 30 inch storm drain, and expansion of Detention Basin 2A. Connections of the waterlines are being coordinated with and designed to the specifications of Placer County Water Agency and Nevada Irrigation District.

Downtown Utility Improvements Project, City of Vacaville

Principal-in-Charge and Project Manager providing design and construction oversight services to support the City of Vacaville in its Downtown Utility Improvements. Project objectives included but were not limited to the upsize and install of approximately 9,700 LF water pipelines to meet 4,500 gpm planning-level fire flow requirements, upsizing approximately 5,500 LF sewer pipelines to meet the City's 8-inch minimum diameter standard and replace deteriorated sewer pipelines, replacing laterals and water meters along upsized water pipelines, and relocation of pipelines for ease of maintenance access, including removal of backyard pipelines.

NATIONAL, REGIONAL AND LOCAL EXPERIENCE



Program Management/ Project Management



Project Controls (Schedule, Budget/ Cost, Documents)

Technical Review And Design Compliance

Stakeholder Coordination

Government Agency Coordination



Risk Management



Quality Management

Dave Richard, PE • CONTRACT MANAGER Booster Way Sewer Replacement Project, City of Angels

Project Manager and Contract City Water/Wastewater Engineer for improvements at the Booster Way/Angels Creek crossing. This project included, but was not limited to, removing an 8-inch sewer from beneath the bridge and replacing with a 10-inch sewer, and replacing an existing 10-inch trunk sewer with a 16-inch stainless steel carrier pipe. Vertical alignment of the carrier pipe was raised to reduce the frequency of impacts from floodwaters along Angels Creek from approximately 1 in 10 years to 1 in 50 years. Replacement of 10-inch sewer with 16-inch pipeline eliminated a hydraulic bottleneck and allowed for lifting of a sewer moratorium.

La Grange Water System Improvements, Turlock Irrigation District

Project Manager for an alternatives analysis, preliminary design, final design, and permitting assistance for water system improvements including replacement of two corroded/leaking 40,000 gal finished water storage tanks and a raw water pump station. The tanks were replaced with two welded-steel storage tanks. The raw water pump station included filter feed and fire tender pumps. Additional facilities in the project included a chlorine handling system and expanded site piping, flow meters, motor control center, SCADA system, and maintenance building.

Don Pedro Reservoir Swimming Lagoon Filtration System Replacement Project, Turlock Irrigation District

Project Manager for replacement of 2.0 mgd pressure filter system at recreational swimming lagoon. Don Pedro Recreation Agency, in collaboration with Turlock Irrigation District, purchased a new filtration system to be installed within an existing facility footprint. Design responsibilities included preparation of installation drawings for \$350,000 pre-purchased filtration equipment including piping and structural support systems, review of shop drawings from equipment suppliers to identify scope of work for installation contractor, preparation of existing conditions through detailed field measurements, and development of extensive construction sequencing documents. Construction period was coordinated with seasonal use of swimming lagoon from April – October.

Disinfection System Modifications, Groveland Community Services District

Project Manager for Groveland Community Services District improvements required for Total Trihalomethanes (TTHM) regulatory compliance, including installation of UV disinfection at two water treatment plants and conversion to chloramination. Ultraviolet (UV) disinfection equipment is installed on the pipeline between the respective 2.0 MG reservoirs and the booster pump station within a separate building.

Family Entertainment Zone Utility Design, Manteca, CA

Project Manager for planning, design, and permitting of 18-inch water, 18-inch recycled water, and 54-inch trunk sewer lines within Family Entertainment Zone, adjacent to Manteca Wastewater Quality Control Facility and Big League Dreams sports complex. Project included trenchless crossing of SR 120 and connections to existing water distribution system, as well as re-purposing of existing 18 inch sanitary sewer force main to recycled water service through ice pigging, flushing, and disinfection; undergrounding of SSJID Drain 6; and hydraulic structures. Permitting efforts included Caltrans encroachment permit for freeway crossing along with Tunnel Classification from OSHA for microtunneling operations. Cost of Phase 1 infrastructure project was approximately \$9 million.





FIRM Dewberry

EDUCATION

BS • Civil Engineering • California State University, Sacramento • 2013

REGISTRATIONS

Professional Engineer • CA • 93472

YEARS OF EXPERIENCE

Dewberry • 2 Total • 10

Max Hardy, PE STRUCTURES ENGINEER

Max has 10 years of structural design experience specializing in the design of water and wastewater structures. Max has led the structural design of water and wastewater projects that included new designs and major retrofits. He has managed the structural design of treatment plants from conceptual design to working with the contractor to deliver the finished product.

Storm Drain Zone 36 and Zone 39 Improvements Project, City of Manteca

Structural Engineer for a 120 CFS storm drain pump station that is to be constructed as part of this project consists of a large underground concrete structure with plan dimension of approximately 60 feet by 60 feet and a depth of approximately 40 feet with an attached 24 feet by 45 feet by 35 feet deep concrete screening structure. The pump station supports three high volume and two low volume storm drain pumps to provide year-round flood protection.

Atwood 3 Pump Station Improvement, Placer County

Structural Engineer for \$1.2 million rehabilitation/upgrade of submersible pump station serving residential and commercial properties in North Auburn near the Placer County Government Center. Improvements included reconstruction of duplex pump station with new wet well and triplex pumping configuration to meet future buildout flows. Improvements included additional 2,300 feet of six-inch force main extension along major urban street with connection to 18-inch regional trunk sewer, flow metering vault, discharge piping configured to allow for bypass pumping and force main pigging, and electrical/control system upgrade.

Naval Facilities Engineering Systems Command Center Southwest, Marine Corps Air Ground Combat Center, Wastewater Treatment Plant, Twentynine Palms

Structural Engineer for the design and construction of a new wastewater treatment plant (WWTP) at the Marine Corps Air Ground Combat Center (MCAGCC). MCAGCC is the largest air/ground combat center for the U.S. Marine Corps, occupying approximately 1,100 square miles of the Southern Mojave Desert. The existing WWTP operates on a lagoon system with chemical flocculation and disinfection where the effluent is used for irrigation water at the Desert Winds Combat Center Golf Course. This new project will decommission the existing 0.75 million gallon per day (MGD) average day flow wastewater treatment process at the Mainside WWTP and replace it with a new 2 MGD system that produces Title 22 (California Code of Regulations) disinfected tertiary recycled water. As the lead designer, Dewberry is providing design services using in-house resources from several different regional business units and is also providing engineering services during construction.





FIRM Dewberry

EDUCATION

MS • Engineering Science • University of the Pacific • 2019

BS • Civil Engineering • University of the Pacific • 2018

REGISTRATIONS

Engineer-in-Training • CA • 168767

YEARS OF EXPERIENCE Dewberry • 6

Total • 6

Khuong "KT" Tran, EIT PROJECT ENGINEER

KT is a Project Engineer providing hydraulic design, process calculations, system modeling, plans and specifications, assistance with technical memoranda, and AutoCAD support on water, wastewater, and storm drainage projects. While completing his graduate studies at the University of the Pacific, he also served as a Civil Engineering Assistant with the California Department of Water Resources.

Critical Water and Wastewater Infrastructure Protection Project, City of Angels

Project Engineer for design services for the City of Angels. Improvements include removing an 8-inch sewer from beneath a bridge and replacing with a 10-inch sewer, and replacing an existing 10-inch trunk sewer with a 16-inch carrier pipe within a 24-inch steel casing. Vertical alignment of the c arrier pipe will be raised to reduce the frequency of impacts from floodwaters along Angels Creek from approximately 1 in 10 years to 1 in 50 years. Protection for approximately 1,675 LF of existing 12-inch trunk sewer along Angels Creek will be provided by installing a structural line, and water line crossings of Angels Creek at Vallecito Road and Main Street will be armored by replacing exposed 6-inch waterlines with 8-inch waterlines within 16-inch steel casings.

Placer County Government Center (PCGC) Tier 1 Improvements, Placer County

Project Engineer for design of the first phase of utility improvements for the 200-ac PCGC. Tier 1 improvements are intended to support construction of a new Health and Human Services Center. Infrastructure improvements include 5,750 ft of 12-inch waterline, 1,500 ft of 15-inch sewer, 4,600 ft of 6-inch sewer force main, 1,200 ft of 24- and 36-inch storm drain, modifications to two pump stations, and expansion of Detention Basin 2A. Connections of the waterlines are being coordinated with and designed to the specifications of Placer County Water Agency and Nevada Irrigation District.

Downtown Utility Improvements Project, City of Vacaville

Project Engineer providing design and construction oversight services to support the City of Vacaville in its Downtown Utility Improvements. Project objectives include but are not limited to the upsize and install of approximately 9,700 LF water pipelines to meet 4,500 gpm planning-level fire flow requir ements, upsizing approximately 5,500 LF sewer pipelines to meet the City's 8-inch minimum diameter standard and replace deteriorated sewer pipelines, replacing laterals and water meters along upsized water pipelines, and relocation of pipelines for ease of maintenance access, including but not limited to removal of backyard pipelines.

Hangtown Creek Sewer Main Relocation, City of Placerville

Project Engineer for relocation of 24-inch trunk sewer from a main creek through the community to a more accessible location in city streets. Responsibilities included development of hydraulic model to confirm trunk sewer capacity, analysis of re-routing service laterals within the business district to the relocated trunk sewer, utility research, and development of cost estimates.





FIRM Dewberry

EDUCATION

BS • Wildlife Biology • Humboldt State University • 1992

YEARS OF EXPERIENCE

Dewberry • 3 Total • 31

Jeff Bray PERMITTING LEAD

Jeff has 31 years of experience, including biological resource and wetland projects for public clients. He regularly manages multi-disciplinary projects and has extensive experience preparing biological studies for public agency clients on projects in support of the California Environmental Quality Act (CEQA) and/or National Environmental Policy Act (NEPA) clearance, enabling smooth project permitting for agencies.

Copper Cove Wastewater Treatment Plant Tertiary Improvement Project, Calaveras County Water District (CCWD)

Environmental Project Manager for this project, on which Dewberry is assisting CCWD with CEQA and NEPA clearance for improvements to the tertiary treatment facility. CEQA clearance includes preparing Categorical Exemption documentation to support a Notice of Exemption, with supporting biological resources and cultural resources technical studies. NEPA clearance includes preparing an Environmental Assessment for the U.S. Army Corps of Engineers since CCWD is receiving federal funding that is administered by this agency. Additionally, the technical studies need to be prepared to federal standard to comply with NEPA.

Hangtown Creek Sewer Main Relocation, City of Placerville

Biological Resources Lead for this project involving re-routing of a 24-inch trunk sewer to facilitate construction of a replacement bridge over Hangtown Creek. Dewberry provided environmental and construction management services for this project, and prepared an Initial Study/Negative Mitigated Declaration (IS/MND) to satisfy CEQA, supporting technical studies for biological and cultural resources, along with a hazardous material assessment.

Storm Drain Zone 36 and Zone 39 Improvements Project, City of Manteca

QA/QC review of the environmental document for this storm drain improvement project that will extend through the former Oakwood Lake Water District wastewater treatment facility to an outfall into the San Joaquin River. A 120 CFS storm drain pump station that is to be constructed as part of this project consists of a large underground concrete structure with plan dimension of approximately 60 feet by 60 feet and a depth of approximately 40 feet with an attached 24 feet by 45 feet by 35 feet deep concrete screening structure. The pump station supports three high volume and two low volume storm drain pumps to provide year-round flood protection.





FIRM Dewberry

EDUCATION

MS • Natural Resources and Environmental Science • University of Nevada • 2005

BS • Environmental Science • University of Oregon • 1998

YEARS OF EXPERIENCE Dewberry • 6

Total • 26

Christa Redd CEQA LEAD

Christa has 26 years of experience providing environmental documentation for public agencies, as well as for private residential, commercial, and industrial developments and alternative energy projects. Her work has included both CEQA and NEPA analysis, as well as environmental documents in support of annexation, General Plan amendment, and zoning change projects. Her responsibilities have included all aspects of project management, including coordination of technical studies, public meetings, client coordination, schedule compliance, and presentations to public decision makers.

Storm Drain 36 and Zone 39 Improvements Project, City of Manteca

Environmental Project Manager for the Zones 36/39 Storm Drain Pipeline Project. The Project will provide a storm drain system in the City of Manteca along Woodward Avenue and Aplicella Court through the former Oakwood Lake Water District wastewater treatment facility to an outfall into the San Joaquin River. Dewberry is providing the engineering, environmental compliance, and permitting for this project. Christa is overseeing the environmental team to prepare technical studies and the CEQA IS/MND. She is also working closely with the permitting team to confirm that the technical studies and environmental document will support the permits, including CVFPB Encroachment Permit, U.S. Army Corps of Engineers Section 404 and 408 Permits, CDFW Lake and Streambed Alteration Agreement (Section 1600), CVFPB Encroachment Permit, and the CVRWQCB Water Quality Certification (Section 401).

Copper Cove Wastewater Treatment Plant Tertiary Improvement Project, Calaveras County Water District (CCWD)

Senior Environmental Scientist for this project on which Dewberry is assisting CCWD with CEQA and NEPA clearance for improvements to the tertiary treatment facility. CEQA clearance includes preparing Categorical Exemption documentation to support a Notice of Exemption, with supporting biological resources and cultural resources technical studies. NEPA clearance includes preparing an Environmental Assessment for the U.S. Army Corps of Engineers since CCWD is receiving federal funding that is administered by this agency. Additionally, the technical studies need to be prepared to federal standard to comply with NEPA.

Hangtown Creek Sewer Main Relocation Project, City of Placerville

Senior Environmental Scientist for this project involving re-routing of a 24-inch trunk sewer to facilitate construction of a replacement bridge over Hangtown Creek. Dewberry provided environmental and construction management services for this project, and prepared an Initial Study/Negative Mitigated Declaration (IS/MND) to satisfy CEQA, supporting technical studies for biological and cultural resources, along with a hazardous material assessment.





FIRM Dewberry

EDUCATION

MS • Environmental Management • University of San Francisco • 2010

BS • Anthropology • University of California, Davis • 2007

YEARS OF EXPERIENCE

Dewberry • 12

Total • 17

Jennifer Howry CULTURAL RESOURCES LEAD

Jennifer has 16 years of experience and serves as Dewberry's Senior Environmental Scientist for a wide range of public works projects. She has extensive experience preparing environmental documentation in compliance with CEQA, NEPA, but specializes in the National Historic Preservation Act of 1966 (Section 106 process) and the National Transportation Act of 1966 (Section 4[f] process). Her experience includes all aspects of project management, including authoring environmental documentation and technical studies, subcontractor management, managing project budgets and schedules, and coordinating with state, federal, and local agencies.

State Route 49 Water Line Project, City of Angels

Cultural Resources Lead for this project where Dewberry provided environmental documentation in support of an encroachment permit from Caltrans as well as in support of potential funding from FEMA for critical water system improvements to the waterline across the State Route 49 bridge. The project required compliance with both Section 106 and CEQA regulations. Dewberry performed a historical resources study to document the results of field investigations and effect documentation, as well as an Environmentally Sensitive Area (ESA) Action Plan.

Arnold Wastewater Treatment Facility Improvement Project, Calaveras County Water District (CCWD)

Cultural Resources Lead for this project where Dewberry prepared CEQA Categorial Exemption (CE) documentation to support a Notice of Exemption for the proposed WWTP improvements that include electrical system upgrades, a new electrical building, backup generator replacement, new redundant secondary clarifier, additional aerobic digesters, dedicated aerators, and replacing the RAS/WAS pump station. CCWD is pursuing SRF funding for the project; consequently, Dewberry also prepared an SRF Environmental Package and biological resources, cultural resources, and air quality technical studies to support the federal cross-cutter process.

Hangtown Creek Sewer Main Relocation Project, City of Placerville

Senior Environmental Scientist for this project involving re-routing of a 24-inch trunk sewer to facilitate construction of a replacement bridge over Hangtown Creek. Dewberry provided environmental and construction management services for this project, and prepared an Initial Study/Negative Mitigated Declaration (IS/MND) to satisfy CEQA, supporting technical studies for biological and cultural resources, along with a hazardous material assessment.





FIRM Dewberry

EDUCATION

BS • Civil Engineering • California Polytechnic State University, San Luis Obispo • 2002

REGISTRATIONS Professional Engineer • CA • 73737

YEARS OF EXPERIENCE Dewberry • 8

Total • 21

Rebecca Neilon, PE FUNDING LEAD

Rebecca has 21 years of experience in project development and delivery of projects, specializing in Caltrans Local Assistance Coordination and Grant Writing. Rebecca has a rare perspective on project development and delivery, gained through her roles as contract staff for small rural agencies in Amador and Calaveras Counties. She is a uniquely qualified grant writer, bringing both her engineering background and extensive experience with competitive local, state, and federal funding programs.

On-Call City Engineering Services, City of Angels

Engineering Technician providing staff augmentation for the City of Angels in support of the contract City Engineer by investigating City Council and residents' concerns related to public infrastructure, reviewing site plans for building permits, coordinating with other public agencies, updating the City Improvement Standards, and assisting with delivery of the City's Capital Improvement Program. In this role, Rebecca utilized her knowledge of Caltrans Local Assistance Programs and Procedures, as well as grant writing and program management.

Pier B On-Dock Rail Expansion Project, Port of Long Beach

Rebecca prepared several successful State and Federal grants to assist the Port of Long Beach with their \$1.5 billion on-dock rail expansion project. In this role, Rebecca helped the Port clearly define a complex project in a way people unfamiliar with the Port could understand. In addition, Rebecca helped the Port maximize project benefits that align with the current administration's goals. The benefits maximized to align with funding program goals were the reduction of greenhouse gas emissions associated with increased on-dock rail. The Port recently expanded Rebecca's role to assist with grant support services, including interfacing with the granting agencies. Her work has facilitated \$228 million in awarded funds.

Fourth Track at Ocean Boulevard Project, Port of Long Beach

Rebecca was responsible for preparation of a grant application on this project where Dewberry successfully competed for \$8 million in Trade Corridor Enhancement Activity funds for the Fourth Track at Ocean Boulevard. This competition involved utilizing a custom project Benefit-Cost Analysis that included interviewing truck drivers to quantify operator time savings and reduced idle time. A key strategy of this application was a strategic partnership with the impacted Department of Transportation.





FIRM Crawford & Associates (Crawford)

EDUCATION

BS • Civil Engineering • California Polytechnic State University, San Luis Obispo • 2002

REGISTRATIONS

Professional Engineer • CA • 68457

Geotechnical Engineer • CA • 2861

YEARS OF EXPERIENCE Crawford • 11

Total • 21

Ben Crawford, PE, GE GEOTECHNICAL / MATERIALS TESTING

Ben is the Founder and President of Crawford & Associates, Inc. He has managed complex projects including bridges, roadways, pavement rehabilitation, water and wastewater facilities, parks, and trails. Ben's experience includes providing geotechnical recommendations for water, wastewater, wells, basins, storm drainage, and pipeline projects, including associated ancillary structures, foundations, and pavement/flatwork. Previous projects include reinforced concrete pipelines, large-diameter pipelines, work within wetlands and waterways, open-cut and trenchless pipelines, and projects within areas of high seismicity.

San Andreas Wastewater Treatment Plant Pond D Expansion, San Andreas County

Prepared a Draft and Final Geotechnical Report for the improvements to the existing treatment facility. Improvements included new aeration basins, multiple below ground pump stations, sludge drying beds, administration building, and clarifiers. Also prepared a Preliminary Geotechnical Report for the planning of three potential new reservoirs at the WWTP site and a baseline report for the construction of approximately 2 miles of outfall pipe.

Grant Line Road Pavement Repairs, Sacramento County

The project includes facilities upgrades, including a new pump station, mechanical, and electrical equipment. Primary improvements include a new wet well and valve vault; flow meter and bypass vault; raise the grade of the site to reduce risk of flooding; perimeter retaining wall; new restroom/electrical building; generator and transformer; and demolition of existing building and underground facilities. Ben oversaw preparation of a Geotechnical Report which provided engineering analysis of existing site conditions and provided recommendations for mat foundations, CIDH piles, spread footings, and mechanically stabilized earth wall system. Geotechnical concerns include shallow groundwater, caving sands/gravels, site flooding, liquefaction settlement, and lack of uniform supportive soils.

Sewer Line Replacement Project, City of Oakdale

As Principal-In-Charge, Ben oversaw the preparation of a Draft Geotechnical Design Report for the City of Oakdale. The City plans to replace an existing sewer main from their wastewater treatment plant to the intersection of North Oak Avenue and Kimball Street. The overall plan alignment measures about 2,300 feet and will consist of 18", 24", and/or 30" pipe. The new pipeline will be constructed using horizontal directional drilling (HDD) beneath the Stanislaus River. The HDD alignment will be about 50 ft below ground surface (bgs) at its deepest point.





FIRM UNICO Engineering (UNICO) YEARS OF EXPERIENCE UNICO • 11 Total • 37

Rob Markes MAPPING

Rob has worked in the survey industry for 37 years. As crew chief, Rob oversees field procedures and is responsible for all office and field personnel. He is an experienced Survey Crew Chief, excelling in topographic mapping, construction staking, and boundary surveys. His land surveying expertise includes supervising and performing Global Positioning System surveys, topographic surveys, aerial control surveys, horizontal and vertical control networks, title surveys, boundary surveys, cadastral surveys, geodetic surveys, engineering surveys and construction surveys, plus construction control and staking for a wide range of projects.

Mark Twain Water System Improvements, City of Angels

Survey Manager. This project upgrades the water distribution system near Mark Twain Elementary School to improve available water supply for firefighting purposes. The project installs approximately 930 lineal feet of 8-inch and 1,200 lineal feet of 6-inch waterlines, blowoffs, air release valves, and fire hydrants, as well as connections to existing waterlines; reconnection of residential and fire services to new waterlines; and flushing, testing, disinfection, and placing into service new waterlines and appurtenances. UNICO provided land surveying services, including topographic surveying and base mapping, right of way surveying, and potholing support. Responsible for contract management, mapping, and QA/ QC.

Booster Way Sewer Replacement, City of Angels

Survey Manager. The Booster Way sewer crossing of Angels Creek and China Gulch represents a critical element in the East Angels Trunk Sewer system serving large areas within the City. Upgrade of the sewer crossing is a high priority objective in the City Wastewater Master Plan and corrects a hydraulic bottleneck and historical source of sewer overflows during significant rain events. Increasing the capacity of the sewer crossing facilitates approved development in the upstream sewer shed. The project included replacement of the sewer crossings with armored stainless steel piping; removal and replacement of sewer piping serving the Stelte Homes subdivision; construction of two new manholes to facilitate access and maintenance of the East Angels Trunk Sewer; removal and replacement of trunk sewer within Tryon Park; reconstruction of sewer laterals serving UWPA property; and bypass pumping to maintain trunk sewer operation throughout construction. Responsible for contract management, mapping, and QA/QC.

East Angels Trunk Sewer/Vallecito Road Sewer Replacement, City of Angels

Survey Manager. This project upsized and replaced approximately 5,446 linear feet of deteriorating sewer line as two separate segments: East Trunk sewer segment and Vallecito Road sewer segment. Pipe sizes along the existing sewer line vary between 10 and 15 inches, and the project upsized the sewer line at various locations to a maximum 18-inch pipe to increase flow capacity. UNICO provided land surveying services, including topographic surveying and base mapping, and right of way surveying and mapping. Responsible for contract management, mapping, and QA/QC.





FIRM UNICO Engineering (UNICO)

EDUCATION

MS • Civil Engineering • University of California, Davis

BS • Structural Engineering • University of California, San Diego

REGISTRATIONS Professional Engineer • CA • 78363

Qualified SWPPP Developer

YEARS OF EXPERIENCE UNICO • 5

Total • 17

Lacey Smith CONSTRUCTION INSPECTION & OVERSIGHT

Lacey has more than 17 years of experience, specializing in construction management. She has a strong background in providing engineering services for all phases from planning, to design and contract document development, through construction. Her CM background includes bridges over waterways, compliance with regulatory and environmental permits, staged construction and traffic control, temporary structures, various utility and landowner coordination, deep and shallow foundations, as well as asphalt paving and methacrylate deck overlay. The structures include both conventionally reinforced and prestressed concrete as well as precast concrete, structural steel, and timber.

Canyon View Drive Slide Repair, Calaveras County

Resident Engineer. This project reconstructed the embankment, soldier pile wall with CIDH foundations, as well as roadway and relocated the waterline on Canyon View Drive where it intersects with Utica Drive. The wall is approximately 90-feet long and a maximum 14-feet tall exposed face. Approximately 115-feet of roadway was constructed to restore the condition to the pre-washout condition, including asphalt paving and new guardrail. Canyon View Drive remained open during construction. Responsible for project management, stakeholder coordination, structures quality assurance, field directives, RFI response, submittal review, and progress payment review and approval.

Gwin Mine Road Slide Repair, Calaveras County

Resident Engineer. During the winter storms of 2017, Gwin Mine Road suffered damage to the roadway and embankment by washout and landslide at six locations. At a seventh location, high velocity flood waters caused erosion and siltation of 3 culverts. This project included slide debris removal, the restoration of roadway with retaining walls, and placement of rip rap for downhill slope failures, as well as culvert restoration and replacement. Responsible for constructability review, project management, resident engineering services, contact change orders, field change directives, responding to RFIs, communication between Contractor and County, progress payment review and approval, and public outreach.

Jesus Maria Road Reconstruction, Calaveras County

Resident Engineer. The Butte Fire burned nearly 71,000 acres and 85 miles of Calaveras County (County) maintained roads. The Butte Fire Road Rehabilitation Project – Jesus Maria Road Project includes Full-Depth Reclamation with Cement (FDR-C) and Cape Seal (chip seal and slurry seal) of approximately 7.8 miles of County maintained road, and a rubberized asphalt chip seal and slurry seal of approximately 3.0 miles of the County maintained road. Responsible for constructability review, project management, resident engineering services, contact change orders, field change directives, responding to RFIs, communication between Contractor and County, progress payment review and approval, and public outreach.





FIRM

A T.E.E.M. Electrical Engineering (ATEEM)

REGISTRATIONS

Electrical Engineer • CA • E15698

YEARS OF EXPERIENCE

A TEEM • 31

Total • 33

Sharon Kimizuka, PE ELECTRICAL/SCADA

A TEEM's Principal in Charge and President, Sharon M. Kimizuka, PE, is a State of California registered Professional Engineer. Ms. Kimizuka has over 30 years of specialized experience in wastewater, water, and drainage system engineering projects.

Emergency Backup Generator Upgrade, El Dorado Irrigation District

Electrical Engineer in charge on the Emergency Backup Generator Upgrades project. Electrical and instrumentation design for installing generators and replacing existing electrical equipment at eleven sewer lift stations and ten pump stations. Electrical design includes new standby generators and automatic transfer switches. New electrical motor controls, RTU control panels and other modifications were made to sites on a case by case basis.

West Point and Wilseyville Wastewater Treatment Facility, Calaveras County Water District

Electrical Engineer in charge on the West Point & Wilseyville Wastewater Treatment Facility (WWTF) Consolidation project. Electrical and instrumentation design for replacing the electrical at Wilseyville and adding new septage receiving station, and lagoon pond pump station. Electrical design included new metering at Wilseyville, MCC, pump controls, standby generator, ATS, instrumentation, PLCs, and radio communication between Wilseyville and West Point WWTF.

French Meadows South Shore Water Supply Project, Placer County Water Agency

Electrical Engineer in charge of the French Meadows South Shore Water Supply Project. Electrical and instrumentation design for new water well with prime generator power. Project included lighting panelboard, building lights & receptacles, PLC control panel and instrumentation.

24th Street Storage Facility, City of Sacramento

Electrical Engineer in charge of the 24th Street Storage Facility project. Electrical and instrumentation design for new underground storm water storage. Project included new pump station pedestal, portable generator connection, instrumentation and remote instrumentation.

Hardin Tank Improvements Project, City of Petaluma

Electrical Engineer in charge on the City of Petaluma, Hardin Tank Improvements Project. Project included new electrical cabinet and meter/main. Manual transfer switch was provided for backup power connection. New area stair and vault light were also installed.

Manor Lane Tank Rehabilitation Project, City of Petaluma

Electrical Engineer in charge on the City of Petaluma, Manor Lane Tank Rehabilitation Project. Project included new electrical cabinet and reusing some existing internal panels. Manual transfer switch was provided for backup power connection. New area stair and vault light were also installed.



