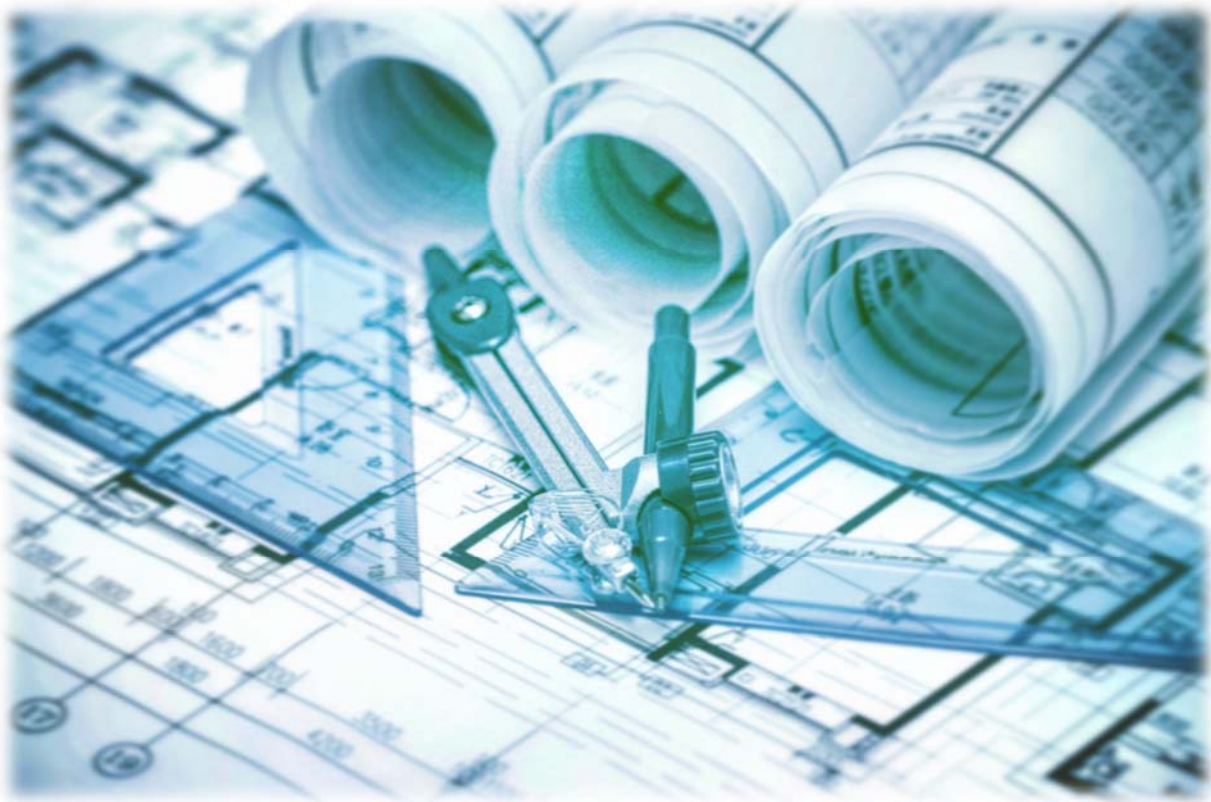




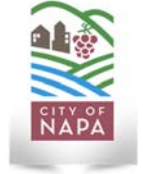
Design-Build Services Proposal Hillcrest and Silverado Pump Stations



Presented by Mountain Cascade, Inc.



Hillcrest & Silverado
Pump Station Replacement Project



Transmittal Letter



555 Exchange Court, Livermore, CA 94550 (925) 373-8370, Fax (925) 373-8379

May 9, 2019

City of Napa Utilities Department
1340 Clay Street
Napa, Ca 94559
Attn: Bill Ash, PE

Subject: Design-Build Cost Proposal for Hillcrest and Silverado Pump Stations Replacements

Dear Mr. Ash,

Mountain Cascade, Inc. (MCI), the Lead Contractor, respectfully submits its Proposal in response to the City of Napa's Request for Proposals to Provide Design-Build Services for the Replacement of Hillcrest and Silverado Pump Stations, issued on March 7, 2019. With the enclosed proposal, MCI is pleased to offer the following benefits to the City, if selected:

- **Family-Owned Accessibility with Proven Financial Strength:** Mountain Cascade, Inc. has a bonding capacity of \$185M and an average annual revenue of \$105M. MCI was first incorporated in 1982, however the company retains family ownership. This allows MCI to offer the financial stability of a large company with the flexibility and accessibility of a family-owned contractor.
- **Local Presence:** Mountain Cascade, Inc.'s corporate headquarters is located in Livermore, California, as are two of the company's main equipment yards. This allows MCI not only to understand the cultural climate of the project, but also to respond rapidly with equipment and manpower in the event changing project conditions so dictate. Additionally, Schaaf & Wheeler, though headquartered in Santa Clara, maintains a satellite office in Santa Rosa.
- **Experience as Individuals & Experience as a Team:** MCI's Project Manager, Howard Reiss, and Superintendent, Aaron Campiotti, have over 20 years of combined experience and have already worked together to deliver successful projects over the course of the past 5 years. Similarly, MCI has selected Schaaf & Wheeler as the Lead Designer and San Joaquin Electric as the electrical subcontractor based on prior successes. MCI, Schaaf & Wheeler, and San Joaquin Electric have well established professional relationships which will allow them to begin work with a sense of urgency and fluidity only available from an established team.
- **Technical Experience:** MCI has already successfully constructed numerous potable water pump station facilities and been a valuable team member on large, alternative delivery projects. The listed Project Manager has over \$10M in project experience on potable water pump stations, and his resume features a wastewater lift station project which included many of the design elements the City of Napa desires, such as diesel generators installed inside CMU buildings. MCI has teamed with Schaaf & Wheeler and San Joaquin Electric, who each have a proven track record of first-rate quality and a number of successful design-build projects.

Thank you for considering Mountain Cascade, Inc. as a potential Design-Build partner in the rebuilding of the Hillcrest and Silverado Pump Stations.

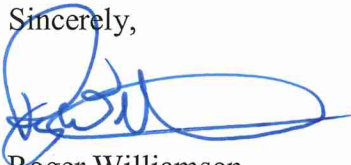
ATTACHMENT 4

Should you have any questions with respect to this proposal, please feel free to query MCI's Primary Contact:

Name: Howard Reiss, PE
Title: Project Manager
Address: 555 Exchange Court
Livermore, Ca 94550
Cell: 925-525-2596
Fax: 925-373-0179
E-Mail: Howard R@MountainCascade.com

We look forward to the opportunity to work with the City of Napa and the eventual successful rebuilding of the Hillcrest and Silverado Pump Stations.

Sincerely,



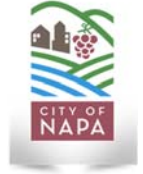
Roger Williamson
Executive Vice President
Mountain Cascade, Inc.



David Hicks
VP of Estimating & Corporate Secretary
Mountain Cascade, Inc.



Hillcrest & Silverado
Pump Station Replacement Project



Business Information

City of Napa Water Division (Napa, CA)

BUSINESS INFORMATION FORM**To be submitted with the proposal**

**Design-Build Services
for the Replacement of
Hillcrest and Silverado Pump Stations
Napa, California**

Mountain Cascade, Inc.

Legal Name of Firm

555 Exchange Court

Firm's Address

925-373-8370

Firm's Telephone Number

Livermore, Ca 94550

City, State, Zip Code

Corporation

Type of Organization (Partnership, Corporation, etc.) – for Joint Venture, provide above information for each party.

Howard Reiss, Project Manager

Name of Project Manager and Title

Roger Williamson, Executive Vice President, 925-373-8370

Name, Title and Phone Number of Person to Which Project Correspondence Should be Directed

P.O. Box 5050, Livermore, Ca 94551

Address Where Project Correspondence Should be Sent

| Subconsultant/Subcontractor | Area of Responsibility | Phone |
|-----------------------------|------------------------|--------------|
| Schaaf & Wheeler | Design & Engineering | 408-246-4848 |
| San Joaquin Electric, Inc. | Electrical & Controls | 916-368-9166 |
| | | |
| | | |
| | | |


 Roger Williamson, Executive Vice President


 David Hicks, VP of Estimating & Secretary



Hillcrest & Silverado
Pump Station Replacement Project



Statement of Qualifications and Experience



Hillcrest & Silverado Pump Station Replacement Project

Business Entity

Mountain Cascade, Inc. (MCI) will serve as the Lead Contractor for the Replacement of the Hillcrest and Silverado Pump Stations. Over the past five years, Mountain Cascade has averaged an annual revenue of \$105M, with a total bonding capacity of \$185M. MCI was first incorporated in 1982, for a total of 37 years in business. Michael Fuller, the company founder, remains the CEO, while David Hicks serves as the secretary and Schelly Frades serves as the CFO. Michael “Duke” Fuller is the President and responsible for the day-to-day operation of the company. Mountain Cascade, Inc. is a second-generation, family-owned contractor. MCI’s corporate headquarters in Livermore employs 39 professionals and a total of over 220 other employees (shop, craft, administration, etc.). MCI possesses a Class A general engineering contractor’s license with a hazardous substances removal certification. Howard Reiss, PE, has been designated as the employee principally responsible for this proposal and ultimately the Project, if MCI is the Successful Respondent. Aaron Campiotti has been designated as the Superintendent.

Mountain Cascade, Inc. has selected Schaaf & Wheeler to serve as the Lead Designer. Schaaf & Wheeler is headquartered in Santa Clara, California, but has three additional offices, one of which is in Santa Rosa, California. Schaaf & Wheeler has an average annual revenue of \$8.04M, employs 36 professional and support personnel (three of whom are based in the Santa Rosa office), and has been in business for 34 years. The company is privately held by 7 shareholders, among them 4 principals; Charles Anderson, Daniel Schaaf, Benjamin Shick, and Leif Coponen. A copy of the executed teaming agreement between MCI and Schaaf & Wheeler is included in Appendix A, and in the event MCI is the Successful Respondent, MCI would hire Schaaf & Wheeler formally as a Consultant to serve as the Lead Designer.

The final operability of any pump station is governed by the successful installation and integration of power, SCADA, and controls, and therefore the electrician is a critical subcontractor on a pump station project. As such, MCI has selected San Joaquin Electric, Inc. (SJE) to fill this role. SJE has been in business for 38 years, has averaged \$25M in annual revenue over the course of the past five years, and has a total bonding capacity in excess

of \$60M. San Joaquin Electric, Inc. is headquartered in Stockton, California and employs 75 professional and other employees. A copy of the Non-Disclosure Agreement executed by MCI and SJE is provided in Appendix A, and should MCI be selected as the Successful Respondent, MCI and San Joaquin Electric would enter into a subcontract agreement.

Licensing and Qualifications

Mountain Cascade, Inc. – CA Contractor’s License No. 422496 – Class A & Hazardous Substances Removal Certification

San Joaquin Electric, Inc. – CA Contractor’s License No. 410103 – Class C-10.

Howard Reiss, PE, Mountain Cascade, Inc. – California Licensed Professional Engineer No. 84800

Aaron Campiotti, Mountain Cascade, Inc. – CA Contractor’s License No. 898749 – Class B

Benjamin L. Shick, PE, Schaaf & Wheeler – California Licensed Professional Engineer No. 68813

Glenn M. Anderson, PE, Schaaf & Wheeler – California Licensed Professional Engineer No. 76720
NAASCO PACP, MACP, & LACP Cert No.

U-714-06021855
Hydraulic Institute Pump System Assessment Certified

Lawrence D. Johnson, PE, Schaaf & Wheeler – California Licensed Professional Engineer No. 84183

General Design- Build Experience

MCI has previous design-build experience on the Woodland-Davis Water Supply Project, where MCI was



Hillcrest & Silverado Pump Station Replacement Project

subcontracted to CH2M Hill (now Jacobs) to install nearly 15 miles of raw and potable water pipeline, a new flow control vault, two horizontal directional drills, and three tunnels. MCI was involved in the project from proposal to completion, including review of 30%, 60%, 90% and Issue for Construction drawings. Soil-Cement, a process of using excavation spoils to batch a cementitious flowable fill material on-site pioneered by Mountain Cascade, reduced installation costs on the project and resulted in a superior final product. The project was completed without claims associated with MCI's scope of work. Additional information on this project can be found in Appendix B.

Additionally, MCI has a myriad of design-bid-build project experience; MCI has successfully completed 4 potable water pump station projects in the last 5 years and over 15 mechanical projects of various types (such as sanitary sewer lift stations, reservoir improvements, plant process upgrades, etc.).

In the last five years, MCI has filed only a single government code claim, which was settled in mediation in the fall of 2017.

Engineering Experience

Schaaf & Wheeler, the Lead Designer, is primarily engaged in the design of water and wastewater treatment and transmission facilities and Glen Anderson, the project manager, specializes in pump station design.

Glen Anderson and Schaaf & Wheeler recently completed the design for the replacement of the Cherry Creek Pump Station in Hillsborough. The new pump station features a triplex configuration, new backup engine generator with ATS, new main switch board, and a new motor control center all housed in a new pump house building located within the footprint of the existing pump station.

Over the course of the last 25 years, Schaaf & Wheeler has provided roughly \$300,000 worth of staff engineering and design services for the Great Oaks Water Company.

Profiles of these and two other noteworthy projects designed by Glen Anderson and Schaaf & Wheeler are included in Appendix B.

Construction Experience

As indicated previously, MCI has completed several potable water pump stations over the course of the last five years. Howard Reiss, the proposed project manager, and Aaron Campiotti, the proposed superintendent completed the construction of a \$10M tank and booster pump station in Fresno, Ca. The T-4 Tank and Booster Pump Station featured a 3M gallon pre-stressed and post-tensioned concrete tank, (3) 125 HP vertical turbine pumps, an emergency back-up generator, hydro-pneumatic surge tank, and an 8,700 square foot CMU operations building. Additional information on this project can be found in Appendix B.

Although not a potable water pump station, Howard Reiss and MCI also constructed the Los Osos Wastewater Collections System Pump Station Project, which included many design elements desired by the City of Napa for inclusion on the Hillcrest and Silverado Pump Stations Replacement. The LOWWCS Pump Stations Project included the construction of eight CMU emergency back-up generator buildings, and due to California Coastal Commission permitting requirements, the back-up generators had to meet extremely stringent noise limits. Additional information on this project can be found in Appendix B.

Project Management Experience

The overall project goal is an on-time, on-budget pair of pump stations which are serviceable, easily operated, and



Hillcrest & Silverado Pump Station Replacement Project

easily maintained over a long service life. To this end, MCI, Schaaf & Wheeler, and San Joaquin Electric will combine their unique experience with input from the City and the City's operation and maintenance staff to ensure the product delivered meets the City's needs while exceeding the City's expectations in regards to ease of operation. MCI and its team will place a special emphasis on the Basis of Design Workshop and will solicit feedback from the City throughout the preparation of the preliminary design. The channels of communication between the City and the Design-Build team will remain open and active beyond design into construction to ensure the final product is well suited to the City's needs.

An organizational chart of Mountain Cascade, Inc.'s project team is provided in Appendix C. The key individuals are as follows, with each of their full resumes included in Appendix D:

Benjamin L. Schick, PE

Executive Sponsor, Design

Availability – 10% Preconstruction/5% Construction

Benjamin Schick will serve as Schaaf & Wheeler's principal-in-charge; he brings over 10 years of design experience and will be available to serve as a sounding board during design and construction.

Glen Anderson, PE

Sr. Project Manager – Design

Availability – 50% Preconstruction/25% Construction

Glen Anderson will serve as Schaaf & Wheeler's project manager and has over 10 years' experience specializing in pump stations. Since joining Schaaf & Wheeler in 2006, Glen has designed more than 300 potable water, storm water and sewage pump stations. While no two pump stations are exactly alike, Glen will use his vast pump station experience to ensure that the pump stations are designed to meet the City's needs. Glen will be in responsible-charge of the pump station rehabilitation design and will oversee the coordination between all of the various engineering specialties. During construction, Glen will be involved to be certain that the stations are being constructed in conformance with the design and performing as intended.

Larry Johnson, PE

Sr. Engineer – Design

Availability – 50% Preconstruction/25% Construction

Larry Johnson will serve as the lead designer for the pump station and will perform the majority of the day-to-day engineering for the rehabilitation of the two pump stations. Since joining Schaaf & Wheeler in 2012, Larry has trained under Benjamin Shick and Glen Anderson in pump station design and has designed more than 100 pump stations. Larry will also be involved during construction to assist with submittal reviews, RFI responses, clarifications, and any required changes.

Roger Williamson

Executive Sponsor

Availability – 10%

Roger Williamson is Mountain Cascade's Executive Vice President of Public Works, and will serve as the executive sponsor for the project. Roger has over 30 years' experience in public works contracting. Roger will oversee the Project Manager, Howard Reiss and Superintendent, Aaron Campiotti to ensure the needs of all stake-holders are met.

Roger Williamson has signing authority for Mountain Cascade, Inc.

Howard Reiss, PE

Project Manager

Availability – 40% Preconstruction/100% Construction

Howard Reiss has 8 years' experience in public works construction, with an emphasis of water and wastewater treatment and transmission. A licensed professional engineer in the state of California, Howard will use his construction experience during design to ensure the result is a practical set of plans which are constructible and ultimately easily serviceable by the City. During construction, he will serve as the Project Manager, Site Safety Representative, and QA/QC Manager.

Aaron Campiotti

Superintendent

Availability – 10% Preconstruction/100% Construction

Aaron Campiotti has over 10 years' experience in all aspects of construction – from residential to heavy civil. During preconstruction, Aaron will be available to influence the efficiency of the design, thus reducing costs and limiting the potential of adverse schedule impacts later in the project. During construction, Aaron will be a working superintendent, both managing field crews and working hands-on to ensure a first-rate product is provided.



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Rickey Arslanian, CHST

Corporate Safety Director

Availability – 5% Preconstruction/10% Construction

Rickey Arslanian has over 15 years' of construction experience in all capacities, from Operating Engineer, to Project Manager, to Corporate Safety Director. Rickey will provide assistance to the project team to ensure every task on the project is completed with a focus on safety, with the ultimate goal of on-time completion with zero lost-time or recordable injuries.

Wade Johnson

Executive Sponsor – Electrical

Availability – 50% Preconstruction/50% Construction

Wade Johnson brings over three decades of experience in electrical construction to the team, ranging from trade work to managing multiple offices for San Joaquin Electric, Inc. Wade also has a myriad of experience working on design-build water and wastewater treatment and pump station projects. Therefore, Wade has the knowledge to identify constructability and integration issues during the design phase of the project and mitigate them before they become delays to the delivery of the finished project.

Fred Lozo

Project Manager – Electrical

Availability – 50% Preconstruction/50% Construction

Fred Lozo has over 30 years of experience in electrical construction, including extensive recent experience managing electrical design-build projects at water and wastewater treatment plants. Some recent design-build work includes the Pleasant Grove WWTP UV Upgrade in Roseville, Ca; Clarifier Upgrade at the Dry Creek WWTP in Roseville, Ca, and the Bellevue Pump Station in Milpitas, California. Fred has successfully managed electrical scopes in excess of \$5M and will implement his extensive knowledge to develop, process and review electrical material submittals for the project, coordinate SJE's crews, and perform overall electrical coordination with other trades and suppliers.

Safety Experience

Mountain Cascade, Inc. has placed a special emphasis on improving safety over the past six years, with the promotion of Rickey Arslanian to the position of Corporate Health and Safety Director. Over the past four years, MCI has focused on instilling a culture of accountability; first through the implementation of vehicle GPS tracking and more recently implementing a new safety incentive program which offers financial rewards to individuals who work safely.

Safety is a top priority for Mountain Cascade, as it not only influences employees' sense of security and wellbeing, but also impacts MCI's cost of doing business. To this end, all foremen, superintendents, project managers, area managers, and executive staff are expected to set an example and hold everyone on their jobsites accountable, regardless of their position or affiliation. There is no rank in safety.

Every Thursday, at each job-site across the company, foremen conduct a safety meeting on two topics – one is preselected and presented company wide, while the other is job-site specific and relevant to the stage of work on that particular site with that particular crew. Sign-in sheets from these meetings, which also document the site-specific topic discussed, are collected and archived.

MCI offers monthly and sometimes bi-monthly safety training on various topics such as heat stress, first-aid & CPR, and defensive driving. All employees are encouraged to attend. All foremen and managers are OSHA 30 trained and have current first-aid and CPR certifications.

"Foremen's Meetings" are held quarterly with all foremen, superintendents, project managers, area managers, and executives in attendance to discuss areas of special concern, changes in legal statutes, and to provide additional training. Topics in the past have included presentations from PG&E's Dig-In Reduction Team and presentations on the statutory changes to California's Underground Service Alert system in January of 2018.

To ensure adhesion to company policies, all projects are periodically audited and inspected by Rickey Arslanian and/or representatives from MCI's insurance company. These inspections are intended to be pragmatic and not



Hillcrest & Silverado Pump Station Replacement Project

punitive in nature, ensuring every employee has the training and equipment to perform their work safely.

Mountain Cascade's Experience Modification Rate for the past four years is as follows:

2018: 81%
2017: 86%
2016: 133%*
2015: 118%*

*The elevated experience modification rate for 2015 and 2016 is the result of an incident unrelated to MCI's work. An employee was involved in a car accident while returning from a jobsite to a company office. The employee was hit head-on by a wrong-way driver on the interstate. The other driver was underinsured so MCI will not receive full recovery. This loss occurred in 2012 and fell off in the 2017 modification period.

References

Mountain Cascade, Inc. Company-Wide References

John Waddell, PE
Construction Division Manager
Public Works; County of San Luis Obispo
Phone: 805-788-2713
Fax: 805-781-1229
E-mail: jwaddell@co.slo.ca.us
Project: Los Osos Wastewater Collections System – Pump Stations

Chris Shumate, PE
Engineer
East Bay Municipal Utilities District
Phone: 510-774-6003
Fax: 510-287-1211
E-Mail: Chris.Shumate@EBMUD.com
Project: Danville No. 1 Pumping Plant Improvements

Tim Busch
General Manager
Woodland-Davis Clean Water Agency
Phone: 530-661-5963
Fax: N/A
E-Mail: Tim.Busch@CityofWoodland.org
Project: Woodland-Davis Water Supply Project

Individual References – Benjamin Shick, PE

Jimmy Vo
Senior Engineer
City of San Mateo
Phone: 650-522-7319
E-Mail: JVo@CityofSanMateo.org

Erin Smith
Public Works Coordinator
City of Alameda Public Works Division
Phone: 510-747-7938
E-Mail: ESmith@AlamedaCA.gov

Bozhena Palatnik
City of Belmont Department of Parks and Recreation
Phone: 650-595-7463
E-Mail: BPalatnik@belmont.gov

Individual References – Glen Anderson, PE

Jimmy Vo
Senior Engineer
City of San Mateo
Phone: 650-522-7319
E-Mail: JVo@CityofSanMateo.org

Jared Ajlouny
Great Oaks Water Company
Phone: 408-227-9540
E-Mail: JAjlouny@GreatOaksWater.gom

Natali Asai
Associate Engineer
Town of Hillsborough
Phone: 650-375-7510
E-Mail: NASai@Hillsborough.net

Individual References – Lawrence Johnson, PE

Raymundo Gutierrez
Engineer I
County of Madera Public Works
Phone: 559-675-7811
E-Mail: Raymundo.Gutierrez@MaderaCounty.com

Karla Traynor Smith
Project Manager
Stanford University
Phone: 650-725-9802
E-Mail: KarlaT@Stanford.edu



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Garrett Readler

Principal

Kier & Wright

Phone: 925-245-8788

E-Mail: GReadler@KierWright.com

Individual References – Howard Reiss, PE

Suzan England, PE

Senior Utilities Engineer

City of Hayward

Phone: 510-293-5098

E-Mail: Suzan.England@Hayward-Ca.gov

James Brantley, PE

Construction Manager (Ret.)

HDR, Inc.

Phone: 805-801-6162

E-Mail: JimBrantley805@gmail.com

Matthew Willbanks, PE

Senior Construction Manager

Independent Consultant

Phone: 559-786-0259

E-Mail: MWillbanks@yahoo.com

Individual References – Aaron Campiotti

Ken Reed

Senior Construction Manager

City of Lathrop

Phone: 209-712-3136

E-Mail: KReed@ci.lathrop.ca.us

Richard Baker

Senior Construction Inspector

Provost & Prichard

Phone: 209-601-8066

E-Mail: RBaker@ppeng.com

Matthew Willbanks, PE

Senior Construction Manager

Independent Consultant

Phone: 559-786-0259

E-Mail: MWillbanks@yahoo.com

Individual References – Rickey Arslanian, CHST

Doug Henrich, CHST, CRIS

Safety Specialist, Safety and Loss Prevention

Old Republic Contractors Insurance Group

Phone: 925-525-8312

E-Mail: DHenrich@orcig.com

Mark Stone

Insurance Agent

Alliant Insurance Services

Phone: 510-504-9204

E-Mail: MStone@Alliant.com

Shane Granberg

Lead Investigator, Dig-In Reduction Team

Pacific Gas & Electric

Phone: 925-785-0095

E-Mail: S4gs@PGE.com

Individual References – Roger Williamson

Hans Vermeulen, PE

Owner & President

JM Turner Engineering

Phone: 707-528-4503

E-Mail: Hans@jmteng.com

Ken Norgaard, PE

Owner & President

Delta Surveying

Phone: 209-649-0269

E-Mail: Delta@Softcom.net

Mike Jaeger, PE

Owner

Tanner-Pacific

Phone: 925-382-1950

E-Mail: MJaeger@TannerPacific.com

Individual References – Wade Johnson

James Morris

Project Manager

Carson City Public Works

Phone: 775-887-2355

E-Mail: JMorris@Carson.org



Hillcrest & Silverado
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Long Hoang
Senior Instrumentation & Controls Engineer
Stantec Engineering
Phone: 916-773-8100
E-Mail: Long.Hoang@Stantec.com

Sharon Kimizuka, PE
Electrical Engineer
A-Teem Engineering
Phone: 916-457-8144
E-Mail: SKimizuka@ateem.com

Individual References – Fred Lozo

Jack Harbour
Construction Manager
West Yost Associates
Phone: 530-756-5905
E-mail: JHarbour@WestYost.com

Steve Mazza
Vice President
GSE Construction
Phone: 925-525-2334
E-Mail: SMazza@GSEConstruction.com

Ramone Noska
Senior Project Manager
Gateway Pacific Contractors
Phone: 916-665-4100
E-Mail: Noska@GatewayPacific.com



Hillcrest & Silverado
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Appendix A

Teaming Agreement between Mountain Cascade, Inc. and Schaaf & Wheeler | NDA between Mountain Cascade, Inc. and San Joaquin Electric, Inc.



Hillcrest & Silverado Pump Station Replacement Project

TEAMING AGREEMENT

THIS TEAMING AGREEMENT (hereinafter Agreement), made and entered into by and between MOUNTAIN CASCADE, INC. and any affiliates identified at a later date ("MCI") (hereinafter "Prime") a corporation with headquarter offices in Livermore, California and **Schaaf & Wheeler** (hereinafter "**Consultant**") a corporation with headquarter offices in **Santa Clara**, California.

RECITALS

WHEREAS, the above identified parties, because of their diverse capabilities, have determined that they would benefit from a team arrangement between their respective organizations in order to develop the best management and technical approach to respond to a Statement of Qualifications and in the case of being short listed, to respond to a Request for Proposal ("RFP") issued by **The City of Napa** (herein referred to as the "Client") for the **Replacement of Hillcrest and Silverado Pump Stations** (herein referred to as the "Project") and to develop a proposal to be submitted by Prime. In the event of a contract award arising out of such proposal, the parties agree that MCI shall be the Prime Contractor and **Schaaf & Wheeler** shall be the **Consultant** for the particular scope of work of such Project as identified herein; and

WHEREAS, the Prime and the **Consultant** have agreed as set forth in Provision 2 hereof to the responsibilities of work to be performed by the **Consultant** on the Project; and

WHEREAS, this Agreement is entered into to enable each party to enjoy the benefits of the other party's capabilities;

NOW THEREFORE, in consideration of the mutual covenants contained herein, it is understood and agreed as follows:

PROVISIONS

1.0 STATEMENT OF QUALIFICATIONS AND PROPOSAL ACTIVITIES

- 1.1 Prime will assume the lead for statement of qualifications and proposal preparation.
- 1.2 Prime shall include **Consultant** in the statement of qualifications and proposal with responsibilities consistent with those mutually agreed.
- 1.3 Each party shall provide qualified personnel to prepare and submit a statement of qualifications and a proposal that will result in the selection of the team for the Project.
- 1.4 Each party shall prepare such data and other relevant information for use in the preparation of the statement of qualifications and proposal applicable to and consistent with its scope of work under the resultant contract award. The Prime shall have ultimate responsibility for statement of qualifications and proposal submissions. The Prime shall, as appropriate, incorporate the data and other relevant information furnished by the **Consultant**.
- 1.5 **Consultant** will submit in a timely manner statement of qualifications and proposal materials (technical, cost, and, if required, management) consistent with other statement of qualifications and proposal sections to Prime to provide the services and materials that are set forth in Provision 2 of this Agreement.
- 1.6 **Consultant** will disclose all relevant information necessary for Prime to fulfill its obligations with respect to all representations and certifications identified by the solicitation, i.e., organizational conflict of interest.
- 1.7 Each party will bear its own expenses in connection with the preparation of the statement of qualifications and proposal including any interviews, presentations, and contract negotiations that may follow; and all other pre-award and other agreed efforts under this Agreement.



Hillcrest & Silverado Pump Station Replacement Project

- 1.8 The Prime will keep the **Consultant** informed concerning preparations for timing and status of any interviews, presentations, and contract negotiations.
- 1.9 In recognition of the importance of marketing the services of this Project team for this RFP including, for example, contacts with the potential Client and others, Prime and **Consultant** may use their marketing and other representatives as mutually deemed appropriate and consistent with maximizing the probability of receiving the contract award.
 - 1.10 It is understood that the Prime will, in any statements of qualifications and proposal that the parties submit and in all discussions with respect thereto, identify the **Consultant** as a team member and will state in such statement of qualifications and proposal or discussions the relationship of the parties as hereinafter set forth.
- 2.0 SUBCONTRACT AND AWARD OF PRIME CONTRACT
 - 2.1 It is understood by the parties that any future subcontract to be entered into between the Prime and the **Consultant** is subject to prior agreement between the contracting parties for establishing mutually satisfactory terms and conditions. Prior to submittal of the proposal, the parties will use best efforts to agree upon mutually acceptable subcontract terms and conditions.
 - 2.2 In the event Prime should receive an award of a prime contract as a result of submission of the proposal, which prime contract includes substantially the work identified in the RFP, subject to the approval of the Client, Prime will subcontract to **Consultant** such portion of the work under said prime contract as relates to **Consultant's** area of responsibility.
 - 2.3 The **Consultant** shall provide qualified Key Personnel acceptable to the Prime and other personnel as reasonably requested by Prime to perform the tasks assigned to the Project by the Client.
 - 2.4 The anticipated Statement of Work is contained in Exhibit A.
 - 2.5 The **Consultant** agrees to accept clauses that the Prime is required to include in its subcontracts as "flow-down" provisions.
 - 2.6 The **Consultant** expressly agrees to the adjustment of payments from the Prime to reflect an equitable prorata share of any penalties, credits, or liquidated damages which shall become due the Client under the prime contract and which are directly attributable to the **Consultant's** negligence. The provision for the payment of penalties, credits, or liquidated damages shall not be an exclusive remedy but shall be in addition to any other rights which the Prime shall have at law, equity or under contract.
- 3.0 RELATIONSHIP OF THE PARTIES
 - 3.1 Nothing in this Agreement shall be deemed to constitute, create, give effect to, or otherwise recognize a joint venture, partnership, pooling arrangement, or formal business entity of any kind. The parties shall act as independent contractors, the employees of one shall not be deemed the employee of any other.
 - 3.2 Neither party shall act as agent for or partner of the other relative to third parties, nor be authorized to incur any liability or to represent or make commitments on behalf of any other.
 - 3.3 The cooperation of the parties is for the purpose of complementing their respective capabilities so that the Client may best achieve the Project objectives.
 - 3.4 Although the Prime is contemplated as the point of interface with the Client, it is recognized that the **Consultant** may have continuing relationships with the Client and may be the recipient of



Hillcrest & Silverado Pump Station Replacement Project

inquiries concerning the subject matter of this Agreement. Therefore, any cogent communications invited by the Client directly with the **Consultant** concerning any matter involving this Agreement shall not be deemed to be a breach of this Agreement. Prime needs to be notified of communications related to the Agreement if the Client goes directly to the **Consultant**.

- 3.5 In the event the Prime should be requested or is presented the opportunity to make presentations orally or by written communications to interested parties concerning this Project the content of the presentation thereof shall be made immediately known to the **Consultant**, subject to any prohibitions or restrictions that may be imposed, and the **Consultant** will support such presentations as requested by the Prime if it relates to the **Consultant's** area of work as defined in Exhibit A.

4.0 TERM AND TERMINATION

- 4.1 All rights and obligations of the parties, with the exception of the applicable provisions of Provision 5, under the Agreement shall terminate on the earliest of the following:
- (a) Notice from the Client that the Project has been canceled or that the prime contract will not be awarded to the Prime;
 - (b) Award of contracts to other bidders, to the exclusion of the Prime for all or substantially all of the Project work contemplated by the proposal;
 - (c) Execution by both parties of the subcontract contemplated by this Agreement;
 - (d) A modification of the RFP that significantly revises the area of the **Consultant's** expertise so as to eliminate Prime's need for the **Consultant's** contribution;
 - (e) A material breach of the provisions of this Agreement by a party that is not corrected within fourteen (14) days after receipt of written notice of such breach provided by the other party. The expiration of two (2) years from the effective date of this Agreement;
 - (f) Mutual agreement of the parties to terminate this Agreement;
 - (g) Client does not approve the use of the **Consultant** for the work;
 - (h) Failure of the parties to negotiate or issue a mutually acceptable Subcontract within 120 days of award of the Prime contract;
 - (i) In the event that the Prime elects to not pursue the work based information provided in either the RFQ or RFP issued by the Owner; or
 - (j) Discovery of any information that is materially different from the prequalification information provided and that at Prime criteria may impact the execution of the work.

- 4.2 Upon any such termination, this Agreement shall have no further force or effect, except Provision 5, Proprietary Information and Provision 14, Liabilities.

5.0 PROPRIETARY INFORMATION

- 5.1 Preparation and submission of the statement of qualifications and proposal, including the conduct of negotiations, will involve the exchange of data and information considered proprietary to the parties. Unless otherwise expressly agreed in writing, all data and information regarding a party that becomes known to another party hereto shall be deemed proprietary. The receiving party agrees to hold proprietary data and information in the strictest confidence for a period of three (3) years after the termination of this Agreement. During that period of time, it will not use any such proprietary data or disclose any such proprietary data or



Hillcrest & Silverado Pump Station Replacement Project

information to any third party (except to the Client, its agents, or employees, as necessary, in connection with the above statement of qualifications and proposal, and marked with appropriate proprietary data restrictions or as required by law) unless expressly authorized in writing by the party originally furnishing such data or information.

- 5.2 Provision 5 shall not apply to any data or information to the extent it is (a) in the public domain at the time it was disclosed, (b) already known without restriction to the party receiving it at the time it was disclosed, (c) learned from a third party not in breach of any confidentiality obligations, or (d) required by regulation, court or regulatory order to be disclosed.
- 5.3 The receiving party shall not be liable for (a) the disclosure of such proprietary data or information that results from the use of the data or information as specified above, (b) the inadvertent or accidental disclosure of such data or information that might occur despite the exercise of the same degree of care as each party normally takes to preserve its own company proprietary data or information, or (c) disclosure of such data or information pursuant to judicial or U.S. Government action.

6.0 PUBLICITY AND NEWS RELEASE

Any news release, public announcement, advertisement, or publicity proposed to be released in connection with this Agreement, the statement of qualifications, the proposal, the Project or resulting subcontract shall be subject to written agreement by authorized representatives of Prime.

7.0 HUMAN TRAFFICKING

The parties agree to comply with the applicable provisions of National Security Presidential Directive/NSPD-22, the applicable provisions of 22 U.S.C. 7104, as amended by the Trafficking Victims Protection Reauthorization Act of 2003 (Pub. L. 108-193) and the Trafficking Victims Protection Reauthorization Act of 2005 (Public Law 109-164), and all applicable implementing regulations with regard to the U.S. Government's "zero tolerance" policy against human trafficking.

8.0 ASSIGNMENT

Neither this Agreement nor any interest herein may be assigned, in whole or in part, by any parties hereto without the prior written consent of the other parties hereto, except that, without securing such prior consent, any party hereto shall have the right to assign this Agreement to any successor of such party by way of merger or consolidation or the acquisition of substantially all of the assets of such party relating to the subject matter of this Agreement, if such successor has expressly assumed all obligations and liabilities of such party under this Agreement; any party shall be further entitled to assign its rights in whole or in part hereunder to a wholly owned subsidiary or affiliated company; provided, however, such party shall not be relieved of any liabilities or obligations by the assignment of such subcontract.

9.0 REPRESENTATION

Each party represents and warrants to the others that it is a corporation duly organized and validly existing in the country or state indicated in this Agreement. Further, each party represents that it has full corporate power and authority to enter into this Agreement and to do all things necessary for the performance of the contract contemplated herein.

10.0 GOVERNING LAW

This Agreement will be interpreted and the rights of the parties construed in accordance with Federal and California State law, and any litigation concerning this Agreement shall be limited and confined exclusively to the appropriate State or Federal court located within the State of California.

In the event of an unresolved question, claim, or dispute under this Agreement, such question, claim, or



Hillcrest & Silverado Pump Station Replacement Project

dispute shall be settled by arbitration to be held in Livermore, CA before a single arbitrator appointed in accordance with the rules of the American Arbitration Association. The decision of the arbitrator shall be final and binding upon both parties as to law and fact and may be filed for execution with any court of competent jurisdiction. Each party shall pay its portion of the expense of the arbitration. Expenses mutually derived shall be shared equally by the parties.

11.0 EFFECTS OF INFORMATION EXCHANGE

Neither the execution and delivery of the Agreement, nor the furnishing of any proprietary or other confidential information by either party shall be construed as granting to the other party either expressly, by implication, estoppel, or otherwise any license under any invention, patent, trademark, or copyright now or hereafter owned or controlled by the party furnishing same. None of such information which may be transmitted or exchanged by the respective parties will constitute any representation, warranty, assurance, guaranty, or inducement by either party to the other with respect to the infringement of patents or other rights of others.

12.0 SCOPE OF AGREEMENT

This Agreement shall relate only to the Project specified herein and nothing herein shall be deemed to: (a) confer any right or impose any obligation or restriction on a party with respect to any other project at any time undertaken by any party hereto; or (b) preclude a party hereto from soliciting or accepting any prime contract or subcontract from any third party under any other project; or (c) limit the rights of any party to otherwise promote, market, sell, lease, license, or in any other manner dispose of its standard products or services.

13.0 NOTICES

Any notice, demand, or request required or permitted by this Agreement shall be in writing and shall be deemed to have been sufficiently given when personally delivered or deposited in the United States mail and received within seven (7) days of postmark, registered or certified, postage prepaid, addressed as follows:

Prime

MOUNTAIN CASCADE, INC.
555 Exchange Court
Livermore, Ca 94550
 Attn.: Roger Williamson
 Phone No. 925-373-8370
 Fax No. 925-373-0179

Consultant

Schaaf & Wheeler
1171 Homestead Road, Suite 255
Santa Clara, Ca 95050
 Attn.: Glen Anderson
 Phone No. 408-246-4848
 Fax No. 408-246-5624



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Pump Station Replacement Project

14.0 LIABILITIES

Neither party shall be liable to the other for any special, incidental, consequential damages arising out of its performance or non-performance of obligations hereunder, whether such liability is based in contract, tort (including negligence), or otherwise.

15.1 NO MATERIAL CHANGE

The obligations of either party hereunder are subject to the following conditions:

- (a) There shall be no litigation or proceeding pending against the party or any of its officers or employees (i) which will have the effect of enjoining or otherwise restricting the activities contemplated by this Agreement; or (ii) which would materially or adversely affect the rights and/or capabilities of the party in respect of such activities.
- (b) Prior to the submission of any statement of qualifications, proposal or the award of the Subcontract, there shall have been no material adverse change in the financial condition or operational capabilities of either party relating to the activities contemplated by this Agreement.

16.0 EXCLUSIVITY

While this Agreement is in effect, both parties agree to work together on an exclusive basis for this Project as described in Exhibit A.

17.0 AGREEMENT

- 17.1 This Agreement constitutes the entire understanding and agreement of and among the parties with respect to the subject matter hereof and supersedes all prior representations and agreements, verbal or written. It shall not be varied, except by an instrument in writing on subsequent date, duly executed by an authorized representative of each party as named in Provision 13, Notices.
- 17.2 If any part, term, or provision of this Agreement shall be held void, illegal, unenforceable, or in conflict with any law of a federal, state, or local government having jurisdiction over this Agreement, the validity of the remaining portions of provisions shall not be affected thereby.
- 17.3 Paragraph headings herein are for convenience only and shall not limit in any way the scope or interpretation of any provision of this Agreement.

18.0 ACCEPTANCE

The parties hereto have caused the Agreement to be executed by their duly authorized officers effective the day and year last written below.

MOUNTAIN CASCADE, INC.

By: [Signature]

Name: [Signature]

Title: [Signature]

Date: 5/06/19

SCHAAF & WHEELER

By: [Signature]

Name: Charles D. Anderson

Title: President

Date: 5/06/19



Hillcrest & Silverado
Pump Station Replacement Project

EXHIBIT A STATEMENT OF WORK

This scope of work is provided for information only. Specific scope definition will be agreed by Prime and **Consultant** during preparation of the RFP. The anticipated scope of work for **Consultant** is summarized as follows:

1. Preconstruction activities including constructability reviews and estimating
2. Support Prime during preparation of the GMP
3. Support Prime during development of project execution schedule
4. Execution of **design** activities as follows:
 - **Sizing of Pumps, Generators, and HVAC equipment sufficient for Prime to procure pricing for the purposes of preparing a Proposal.**
 - **Preparation of preliminary layout drawings sufficient for Prime to prepare Proposal. Layout drawings and renderings may be included in the actual Proposal document.**
 - **Evaluate the potential need for permits from the California Department of Public Health, local Fire Marshal, and any other agencies reasonably believed to have jurisdiction.**
 - **Additional Scope of Work: The Prime at its own discretion and convenience will be able to award additional scope of work to **Consultant**. This work may include: **other related design tasks**, for example **pipe support design, evaluation of concrete or grout mix designs, VD&C renderings** as may be necessary for the preparation of the proposal.**



Hillcrest & Silverado Pump Station Replacement Project

NON-DISCLOSURE AGREEMENT

1. **THIS NON-DISCLOSURE AGREEMENT** (this "*Agreement*") is entered into as of April 29, 2019 (the "*Effective Date*"), between **MOUNTAIN CASCADE, INC.** (the "*Company*"), and the entity listed below having a place of business at the address listed below (the "*Recipient*"), to protect the confidentiality of certain Confidential Information of the Company to be disclosed to the Recipient solely for use in evaluating or pursuing a business relationship with the Company (the "*Permitted Use*").

2. Recipient and its associated employees, agents, and any other associated personnel (collectively "Associates") agree to the following confidentiality agreement:

All ideas, data, sketches, drawings, documents, conversations, trade secrets, know-how, inventions, manufacturing techniques, processes, algorithms, schematics, designs, design details, formulas, calculations, specifications, procedures, procurement, descriptions, studies, contracts, costs analyses, engineering, research, customer studies, customer lists, forecasts, financial information, sales and marketing plans, employee, and business and personnel information, and information the Company provides regarding third parties, and all other information the Recipient knew, or reasonably should have known, was the Confidential information of the Company and any other information received while working with or in anticipation of working with Company employees or personnel retained by the Company are confidential and proprietary information of the Company (hereinafter referred to as "Confidential Information") and the Company owns exclusive right, title and interest in and to such Confidential Information. Such Confidential Information can only be used by Recipient and its associates during the negotiations regarding the services, the preparation for performing the services, or the execution of services associated with the present or proposed engagement between the Company and Recipient.

3. Recipient and its Associates will not disclose any such Confidential Information or any part thereof to any person or entity outside Recipient's or the Company's business organizations for any purpose without the prior written consent of the Company, and will use the Confidential Information for no purpose other than the Permitted Use. The Recipient will also protect such Confidential Information with at least the same degree of care that the Recipient uses to protect its own Confidential Information, but in no case, less than reasonable care. Neither Recipient nor its associates will attempt to recreate the Confidential Information through any method including, but not limited to, reverse engineering.

4. Recipient and its associates will not use the Confidential Information either to compete against the Company or to help any third parties compete against the Company.

5. Recipient and its associates will return all tangible copies of Confidential Information and any copies thereof to the Company at the completion of all negotiations between the parties if there is no resulting agreement or at the completion of all services under this agreement or any proposed agreement between the parties, or at such date as the Company may designate.

6. Recipient and its associates will make no reference to any discussions, negotiations, proposals, agreements, engagements or other interactions with the Company, including, but not limited to, by referring to projects proposed by or for the Company, by referring to projects performed for the Company, by using the Company name or logo, or by using any other Company trademarks or service marks, to the public, for purposes of referral or any other reason, without the written consent of the Company.

7. Recipient's confidentiality obligations shall survive the termination of this agreement and the termination of any relationship or negotiations between Recipient and the Company. Recipient shall be responsible for the breach, by its employees, agents, associates, and affiliates, of the confidentiality obligations contained in this Agreement. If any provision of this Agreement shall be held invalid, void, or otherwise unenforceable, such provision shall be deemed severed from the Agreement and the remainder of the Agreement shall remain valid and enforceable.



Hillcrest & Silverado
Pump Station Replacement Project

8. The Agreement and any action related thereto will be governed, controlled, interpreted, and defined by and under the laws of the State of California, without giving effect to any conflicts of laws principles that require the application of the law of a different state.

RECIPIENT

San Joaquin Electric, Inc.

Wade Johnson

Signature

V.P.

Officer

4-30-19

Date

COMPANY

Mountain Cascade, Inc.

[Signature]

Signature

V.P. - ESTIMATING / SECRETARY

Title

04/30/19

Date



Hillcrest & Silverado
Pump Station Replacement Project

Appendix B

Project Profiles



Hillcrest & Silverado
Pump Station Replacement Project



Woodland-Davis Water Supply Project

\$25.1M | CH2M Hill & Davis-Woodland Clean Water Agency | Completed May 2016



Project Description

MCI worked as a subcontractor to CH2M Hill (now Jacobs) on the Woodland-Davis Water Supply Project, which was a design-build-operate project to significantly replace the Cities of Davis and Woodland's primary source of potable water to surface water from the Sacramento River. MCI worked alongside CH2M Hill and the Woodland-Davis Clean Water Agency from proposal to completion, including review of 30%, 60%, 90% and Issue for Construction Drawings. MCI's scope involved the installation of nearly 15 miles raw and potable water pipeline, a new flow control vault, bypassing, (2) horizontal directional drills, and (3) tunnels.

Key Firms & Personnel

General Contractor: Mountain Cascade, Inc. | Randy Buckman, PE, Area Manager

Design Engineer: CH2M Hill | Gary Magee

Construction Manager: CH2M Hill | Enrique Ramos, Construction Manager

Project Reference

Enrique Ramos | Construction Manager, Jacobs | (619) 208-6287 | eramos@ch2m.com

Tim Busch | General Manager, Woodland-Davis Clean Water Agency | (530) 661-5963 | Tim.Busch@CityofWoodland.org



Hillcrest & Silverado
Pump Station Replacement Project

Danville No. 1 Pumping Plant Improvements

\$3.5M | East Bay Municipal Utilities District | Completed July 2015



Project Description

MCI performed the phased replacement of multiple electrical, mechanical, and structural systems at an existing, operating potable water pump station. The first phase consisted of the replacement of the existing 2,400 volt electrical system; partial replacement of the 480 volt, 208 volt, and 120 volt electrical systems; complete replacement of the control system for pumps 1-4 of 6, partial replacement of the control system for pumps 5 and 6; replacement of a medium voltage transformer; replacement of 500 HP and 1,000 HP vertical turbine pump motors; replacement of the existing DC battery system; upgrading an existing bridge crane; installation of a new duplex sump pump with lead-lag control panel; and modifications to the existing structural service platform. The second phase consisted of the replacement of the existing 4,160 volt electrical system; partial replacement of the remaining existing 480 volt, 208 volt, and 120 volt electrical systems; completion of the replacement of the control system for pumps 5 and 6; adding multiple high-performance 30" butterfly valves, standard 30" butterfly valves, 30" check valves, and 36" butterfly valves to the existing suction and discharge headers; and final modifications to the existing structural service platform. Demolition included the removal of hazardous materials.

Key Firms & Personnel

General Contractor: Mountain Cascade, Inc. | Clay Frades, Area Manager

Design Engineer: EBMUD In-House

Construction Manager: EBMUD In-House | Chris Shumate, Engineer

Electrical Subcontractor: Con J. Frankie | Erik Niewald, Project Manager

Project Reference

Chris Shumate | Engineer, East Bay Municipal Utilities District | (510) 774-6003 | Chris.Shumate@EBMUD.com



Hillcrest & Silverado
Pump Station Replacement Project



T-4 Tank and Booster Pump Station

\$10.1M | City of Fresno | Completed May 2016



Project Description

A part of the City of Fresno's "Recharge Fresno" program, the T-4 Tank and booster pump station features a 3 million gallon pre-stressed, post tensioned potable water storage tank, (3) 125 HP vertical turbine booster pumps, space for two future vertical turbine booster pumps, an 8,700 square foot CMU operations building, hydro-pneumatic surge tank, back-up generator system, and associated site improvements.

Key Firms & Personnel

General Contractor: Mountain Cascade, Inc. | Howard Reiss, PE, Project Manager

Design Engineer: Quad Knopf | Amber Adams, VP of Business & Operations

Construction Manager: SGI Construction Management | Matt Willbanks, PE, Sr. CM

Electrical Subcontractor: Auburn Constructors | Barry Evans, Electrical Division Manager

Project Reference

Christopher Carroll, Water Systems Supervisor | (559) 621-5481 | Christopher.Carroll@fresno.gov



Hillcrest & Silverado
Pump Station Replacement Project

Los Osos Wastewater Collection System Pump Stations

\$9.2M | County of San Luis Obispo | Completed April 2015



Project Description

The Los Osos Wastewater Collection System Pump Stations Project was one of four projects associated with an entirely new wastewater collection system for the town of Los Osos, California. The LOWWCS Pump Stations Project included the construction of (8) CMU back-up generator stations ranging in size from 35 kW to 300 kW, installation of 24 submersible grinder pumps and 20 submersible solids-handling pumps, installation of an odor control unit, and associated site work and controls. Back-up power facilities included diesel and natural gas generators interior to CMU buildings which met strict California Coastal Commission permitting requirements, including sound levels which did not exceed 45 dB-A at the property line.

Key Firms & Personnel

General Contractor: Mountain Cascade, Inc. | Howard Reiss, Project Manager

Design Engineer: CDM Smith

Construction Manager: HDR | James Brantley, PE, Construction Manager

Electrical Subcontractor: Thoma Electric | Mark Westley, Project Manager

Project Reference

John Waddell, PE, Construction Division Manager, Public Works County of San Luis Obispo | (805) 781-5252

jwaddell@co.slo.ca.us



Hillcrest & Silverado
Pump Station Replacement Project



Engineering Services for Great Oaks Water Company

\$~300,000 | Great Oaks Water Company, San Jose | 1994 - Present



Project Description

Schaaf & Wheeler serves as the engineer for the Great Oaks Water Company which is providing public water utility service to the Blossom Valley - Santa Teresa - Edenvale - Coyote Valley-Almaden Valley area of the City of San Jose. Some notable water system improvements design projects are:

- Water Line Replacement in Rahman Drive (2018), Contract Value: \$10,000 - Water line improvement plans to replace the existing 12-inch and 16-inch pipe to the Ashmont Tanks.
- Richmond Water Line, City of San Jose (2016). Contract Value: \$10,000 - Water line design for a main extension between two wells. The water line extension consisted of 3,600-feet of 16-inch main in Richmond and installation of 175-feet of 18-inch HDPE in a 24-inch casing.
- iStar Water System Improvements, 2015. Contract Value: \$19,000 - Improvement plans for a water system proposed to serve the 80-acre, 720-unit iStar housing development. The project consists of 5,300-feet of 12- and 8-inch waterline, 25 fire hydrants, and 3 irrigation services.
- San Vicente Water Line, 2014. Contract Value: \$9,000 - The project consists of 2,800 feet of 12-, 10-, 8- and 6-inch waterline and 10 services.
- Country View Tank, 2014-2018, Contract Value: \$5,000. – Design for a 90,000 gallon bolted steel tank.

Key Firms & Personnel

General Contractor: Various

Design Engineer: Schaaf & Wheeler | Glen M. Anderson, PE – Senior Project Manager

Construction Manager: Great Oaks Water Company

Electrical Subcontractor: Fehr Engineers | Thomas J. Pinkerton, PE - Principal

Project Reference

Jared Ajlouny, Great Oaks Water Company | (408) 227-9540 | jajlouny@greatoakswater.com



Hillcrest & Silverado
Pump Station Replacement Project

Country Club and Victoria Booster Pump Station Design and CS

\$143,344 | City of Petaluma | 2018 - 2020



Project Description

The City of Petaluma proposed upgrades to both Victoria Pump Station and Country Club Pump Station. Components including the existing pump, motor, piping, electrical, bypass setup, SCADA connection, and flowmeters are assessed for potential improvement. Schaaf & Wheeler is providing design and construction support services for the rehabilitation of the pump stations to maintain the existing configuration and overall pump strategy. Pumps, valves, and instruments will be replaced with modern components meeting the City's specified requirements. New pumps will be installed in existing valve cans and the pump vaults will be retrofitted to use access hatches rather than manhole covers.

Each site will remain relatively unchanged, though access improvements and other improvements to simplify operations will be implemented where practical. Both stations are currently equipped with a means of bypass which will remain. Both sites will have new fence and security gates installed, while still allowing for easy access to the generator receptacle.

Schaaf & Wheeler conducted assessments that are included in the detailed assessment report reporting findings, deficiencies, and necessary improvements. The assessment report will serve as the basis for designing the station improvements.

Key Firms & Personnel

General Contractor: TBD

Design Engineer: Schaaf & Wheeler | Glen M. Anderson, PE – Senior Project Manager

Construction Manager: TBD

Electrical Subcontractor: MTH Engineers | Julio C. Herdocia, PE - Principal

Project Reference

Dan Herrera, City of Petaluma – Public Works | (707) 778-4589 | dherrera@ci.petaluma.ca.us



Hillcrest & Silverado
Pump Station Replacement Project



Replacement of Mariners' Island Sanitary Sewer Pump Stations #5, #6

\$186,000 | City of San Mateo | 2010 – 2013, Completed



Project Description

The City of San Mateo owns and maintains a number of sanitary sewer pump stations that have been in service for more than 20 years. Schaaf & Wheeler evaluated all of the City's Sanitary Sewer pump stations for reliability and has designed the rehabilitation of some of the stations.

The Mariners' Island #5 and #6 station rehabilitations abandoned the existing Smith & Loveless wet-pit/dry-pit configuration in favor of rail-mounted, non-clog submersible pumps placed in a new precast wet well adjacent to the existing station. This eliminated the need for confined space entry into the station to service the pumps. The new design of Mariners' Island #5 and #6 pump stations includes all necessary equipment to meet the reliability requirements set forth by the US Environmental Protection Agency (EPA) and the Regional Water Quality Control Board (RWQCB), including an emergency generator, bypass pumping connection, redundant control system, redundant pumping capacity, and the necessary alarms.

Design and Construction Challenges and Solutions. Challenges and solutions that were encountered throughout the Mariner's Island #5 and #6 project are identified below:

- Corroded and leaking drywell: Assessed and identified rehabilitation alternatives. Ultimately the most cost effective solution was to eliminate the drywells.
- Limited bypass options due to force main crossing Highway 92: Designed new station adjacent to existing to allow existing station to operate during construction.

Key Firms & Personnel

General Contractor: Anderson Pacific

Design Engineer: Schaaf & Wheeler | Glen M. Anderson, PE – Senior Project Manager

Construction Manager: City of San Mateo

Electrical Subcontractor: Fehr Engineering | Thomas J. Pinkerton, PE - Principal

Project Reference

Jimmy Vo, City of San Mateo | (650) 522-7319 | jvo@cityofsanmateo.org



Hillcrest & Silverado
Pump Station Replacement Project



Cherry Creek Water Booster Pump Station Design

\$229,079 | City of Hillsborough | 2017



Project Description

Town of Hillsborough has planned the replacement of the Cherry Creek Pump Station. The new station will remain within the footprint of the existing station. The general station design features included are:

- New suction pipe from the SFPUC turnout meter to the pump station,
- New triplex pumping configuration with one pump being a redundant pump,
- Engine generator with automatic transfer switch,
- New electrical equipment including main switch board and motor control center, and
- New building to house the pump, electrical panels, and EG set.

Schaaf & Wheeler provided engineering design services and summarized the plans in a Preliminary Design Report. Schaaf & Wheeler coordinated with the Town's Environmental Consultant by providing documents of the proposed project and incorporating project limits into construction documents. Geotechnical subconsultant was subcontracted to investigate the soils at the site and to recommend design parameters for the structure. The final construction documents include plans, technical specifications and estimate of construction cost.

Key Firms & Personnel

General Contractor: TBD

Design Engineer: Schaaf & Wheeler | Glen M. Anderson, PE – Senior Project Manager

Construction Manager: Town of Hillsborough

Electrical Subcontractor: MTH Engineers | Julio C. Herdocia, PE - Principal

Project Reference

Natalie Asai, City of Hillsborough – Public Works | (650) 375-7510 | NAsai@hillsborough.net



Hillcrest & Silverado
Pump Station Replacement Project

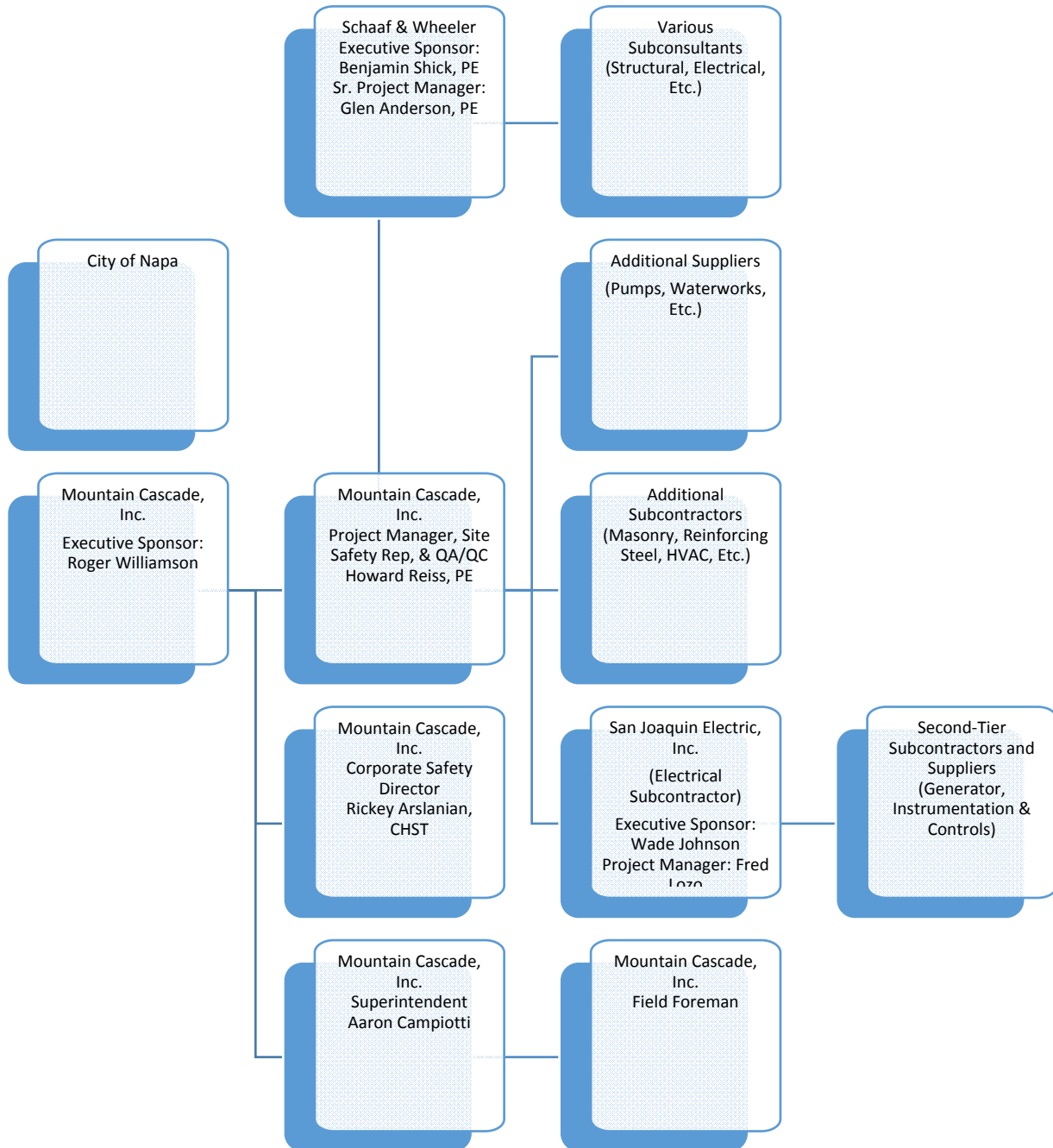
Appendix C

Organizational Chart



Hillcrest & Silverado
Pump Station Replacement Project

Organizational Chart





Hillcrest & Silverado
Pump Station Replacement Project

Appendix D

Resumes



Hillcrest & Silverado
Pump Station Replacement Project



Glen M. Anderson, PE

1171 Homestead Rd., Ste. 255, Santa Clara, CA 95050 | (408) 246-4848 | ganderson@swwsv.com

Education

BSCE | 2006 | UNIVERSITY OF CALIFORNIA, DAVIS

- Civil and Environmental Engineering:
- Emphasis on Water Resources
- Related coursework: Hydraulics, Water Quality Management, Groundwater Systems Design, Hydraulic Structure Design

Experience

SENIOR PROJECT MANAGER | SCHAAF & WHEELER | 2017 - PRESENT

- Oversee design of water resource projects with construction costs up to \$15 million.
- Hydraulic modeling of water and waste water systems
- Evaluation and design of water, storm water and sewage pump stations ranging from 60 GPM to 60 MGD
- Alternatives analysis, planning, cost estimation, and construction support services
- Past and Current Noteworthy Projects:
 - **Country Club and Victoria Water Booster Pump Stations Rehabilitation Design and Construction Support – City of Petaluma (2018 – 2020), Contract Value: \$143,344.** The project involves design and construction support for rehabilitation of two potable water pump stations. Pumps, valves, and instruments are replaced with modern components meeting the City's specified requirements. New pumps are being installed in existing valve cans and the pump vaults will be retrofitted to use access hatches rather than manhole covers.
 - **Hillsborough Cherry Creek Water Booster Pump Station – City of Hillsborough (2017); Contract Value: \$229,079.** This project involves design and construction support for a water booster pump station. The general station design features included in the project are:
 - New suction pipe from the SFPUC turnout meter to the pump station,
 - New triplex pumping configuration
 - Engine generator with automatic transfer switch,
 - New electrical equipment including main switch board and motor control center, and
 - New building to house the pumps, electrical panels, and EG set.



Hillcrest & Silverado Pump Station Replacement Project

PROJECT MANAGER | SCHAAF & WHEELER | 2010-2017

- Infrastructure planning and design of pump stations, waste water conveyance systems, and water supply systems while managing multidisciplinary teams.
- Construction management and construction support services
- Past and Current Noteworthy Projects:
 - **Engineering Services for Great Oaks Water Company – City of San Jose, Contract Value: \$300,000.** Schaaf & Wheeler staff is the engineer for the Great Oaks Water Company which is providing public water utility service to the Blossom Valley - Santa Teresa - Edenvale - Coyote Valley-Almaden Valley area of the City of San Jose. Some notable water system improvements design projects are:
 - Water Line Replacement in Rahman Drive, 2018, Contract Value: \$10,000.
 - Richmond Water Line, City of San Jose, 2016. Contract Value: \$10,000.
 - iStar Water System Improvements, 2015. Contract Value: \$19,000.
 - San Vicente Water Line, 2014. Contract Value: \$9,000.
 - **Rehabilitation/Replacement of Mariner's Island Sanitary Sewer Pump Stations #5, #6, City of San Mateo (2010 – 2011), Contract Value: #5 - \$85,337; #6 - \$52,420;** The City of San Mateo owns and maintains a number of sanitary sewer pump stations that have been in service for more than 20 years. Schaaf & Wheeler evaluated all of the City's Sanitary Sewer pump stations for reliability and has designed the rehabilitation of some of the station. Abandon the existing Smith & Loveless wet-pit/dry-pit configuration in favor of rail-mounted, non-clog submersible pumps placed in a new precast wet well adjacent to the existing station. This eliminated the need for confined space entry into the station to service the pumps. The new design of Mariners' Island #5 and #6 includes all necessary equipment to meet the reliability requirements set forth by the US Environmental Protection Agency (EPA) and the Regional Water Quality Control Board (RWQCB), including an emergency generator, bypass pumping connection, redundant control system, and the necessary alarms.

Certifications & Licenses

- Registered Civil Engineer California C76720
- NASSCO PACP, MACP and LACP Certified, Cert. No. U-714-06021855
- Hydraulic Institute, Pump System Assessment Certified

References

- Jimmy Vo | Senior Engineer, City of San Mateo | JVo@CityofSanMateo.org | Tel: (650) 522-7319
- Jared Ajlouny | Great Oaks Water Company | Jajlouny@GreatOaksWater.com | Tel: (408) 227-9540
- Natalie Asai | Associate Engineer, Town of Hillsborough | NAsai@Hillsborough.net
Tel: (650) 375-7510



Hillcrest & Silverado
Pump Station Replacement Project



Benjamin L. Shick, PE

2200 Range Avenue, Ste. 201, Santa Rosa, CA 95403 | (707) 528-4848 | bshick@swwsv.com

Education

MSCE | 2003 | MONTANA STATE UNIVERSITY-BOZEMAN

- Major: Civil Engineering
- Related Coursework: Numerical Methods in Water Resources, River Hydraulics, Environmental Engineering Processes, Water Treatment Processes & Design, Environmental Engr. Reactor Theory, Environmental Engr. Investigations

BSCE | 2001 | MONTANA STATE UNIVERSITY-BOZEMAN

- Major: Civil Engineering
- Related coursework: Advance Fluid Dynamics, Pumps and Pipes, Advanced Open Channel Hydraulics, Estimating and Scheduling

Experience

PRINCIPAL-IN-CHARGE | SCHAAF & WHEELER | 2014 - PRESENT

- Planning, design and construction support of pump stations, waste water conveyance systems, water supply and distribution systems and storm water systems.
- Alternative analyses, Project management and QA/QC
- Construction management and construction support services
- Past and Current Noteworthy Projects:
 - **Sanitary Sewer Lift Station Rehabilitation Design (5 Lift Stations) – City of San Mateo (2017 – Current), Contract Value: \$1,243,827.** The project involves condition assessments, alternatives analysis, and design services for five sanitary sewer lift stations and the associated force mains. Options to eliminate two lift stations and extend the adjacent gravity and force main systems were identified. Leading preparation of design documents to meet current City design preferences and standards. Provide station reliability in conformance to the Regional Water Quality Control Board (RWQCB) reliability requirements. Each lift station will have the capability to handle peak wet weather flow (PWWF), an automatic alarm and communication system, backup or redundant equipment (pumps, controls, and power supply), and the ability to perform bypass pumping.
 - **Rehabilitation Design of 32 Sanitary Sewer Pump Station – City of Alameda (2012-2016, 2018); Contract Value: \$733,000.** This project involved condition and reliability assessment of City's 34 sanitary sewer pump stations. Assessments identified reliability deficiencies, existing code violations, safety concerns, and operational issues for each of the stations. 32 of the 34 pump stations were identified as "high priority pump stations," requiring reliability and/or safety improvements. In 2011, improvement design for 32 of these pump stations started. As Project



Hillcrest & Silverado Pump Station Replacement Project

Manager for both assessment and design services, Ben Shick led the assessments, design and construction support of the pump stations rehabilitation.

PROJECT MANAGER | SCHAAF & WHEELER | 2007 - 2014

- As Project Manager, Ben Shick provided infrastructure planning and design of pump stations, waste water conveyance systems, water supply and distribution systems and storm water systems while managing multidisciplinary teams.
- Construction management and construction support services
- Past and Current Noteworthy Projects:
 - **Citywide Sanitary Sewer Pump Station Rehabilitation – City of Fontana (2012 -2017), Contract Value: \$920,390.** The project involved evaluation of six of the City's sanitary sewer pump stations. Subsequently the recommended improvements were designed to address condition, reliability, safety, and code deficiencies. As Project Manager, Ben Shick led the team for assessment and design. Design included a variety of pump station rehabilitation and replacement elements including; new wet wells, pump and piping replacement, addition of backup generators, addition of bypass pumping connections, and replacement of the control panels and SCADA equipment. A list of standard equipment to be used on all of the pump station facilities was also developed.
 - **Assessment and Design of Pump Station Improvements, City of Oakland (2014 – 2015), Contract Value: \$500,000.** The project involves the design of improvements to six of the City's seven sanitary sewer pump stations. As Project Manager, Ben Shick led the design of improvements including the installation of new wet wells or rehabilitation of existing wet wells, installation of new engine generators, new controls, new pumps, bypass pumping connections and site improvements necessary. Each of the six stations presented unique challenges that had to be addressed during the design. Each pump station was evaluated for alternative design and construction options to minimize the impact to the surrounding area.

Certifications & Licenses

- Registered Civil Engineer California C68813

References

- Jimmy Vo | Senior Engineer, City of San Mateo | JVo@CityofSanMateo.org | Tel: (650) 522-7319
- Erin Smith | Public Works Coordinator, City of Alameda Public Works Division
ESmith@AlamedaCA.gov | Tel: (510) 747-7938
- Bozhena Palatnik | City of Belmont, Department of Parks and Recreation | BPalatnik@belmont.gov
Tel: (650) 595-7463



Hillcrest & Silverado
Pump Station Replacement Project



Lawrence D. Johnson, PE

1171 Homestead Rd., Ste. 255, Santa Clara, CA 95050 | (408) 246-4848 | ljohnson@swwsv.com

Education

MS | 2012 | CALIFORNIA POLYTECHNIC STATE UNIVERSITY – SAN LUIS OBISPO

- Major: Civil and Environmental Engineering
- Related coursework: Pumps and Wells, Urban Water Systems, Computer Applications in Water Resources with GIS

BS | 2012 | CALIFORNIA POLYTECHNIC STATE UNIVERSITY – SAN LUIS OBISPO

- Major: Civil Engineering
- Related coursework: Water Resources Engineering, Groundwater Hydraulics and Hydrology, Hydraulic Systems Engineering

Experience

SENIOR ENGINEER | SCHAAF & WHEELER | NOVEMBER 2018 - CURRENT

- Project management on various pump station design projects.
- Perform hydraulic calculations for system curve losses, cycling depth, buoyancy, etc. on over 100 pump stations.
- Provide AutoCAD drafting for various pump station projects
- Provide construction support services including submittal review and RFI response for the Stanford East Campus Pump Station Project.
- Past and Current Noteworthy Projects:
 - **Stanford East Campus Pump Station Construction Support Services – Stanford University (2017-2019), Contract Value \$77,275.** The project involved design of a storm water pump station to supply screened storm water to Stanford's Irrigation distribution system. Larry Johnson led the team for design and the subsequent construction support services. Design services included new wet well, screens, filters, surge protection, control panels, and coordination with Stanford O&M staff.
 - **Point Martin Domestic Pump Station Design – San Mateo (2018-2019), Contract Value: \$42,060.** The project involves design of a booster pump station to provide domestic/fire flow water to the area of the project above the acceptable service pressure. Larry Johnson assisted the team in terms of coordination, design and drafting of the pump station design details. Design services include a new skid mounted booster pump system, hydro-pneumatic tank, control panel, domestic water piping, standby engine generator set, pump station building etc.

ASSOCIATE ENGINEER | SCHAAF & WHEELER | JUNE 2015-NOVEMBER 2018

- Assisted project managers in design services for various projects.



Hillcrest & Silverado Pump Station Replacement Project

- Performed hydraulic calculations for system curve losses, cycling depth, buoyancy, etc. on over 100 pump stations.
- Provided AutoCAD drafting for various pump station projects
- Provided construction support services
- Past and Current Noteworthy Projects:
 - **Bass Lake Sanitary Pump Station Facilities Improvements – County of Madera (2015 –2018), Contract Value: \$297,330.** The project involves a detailed assessment of the 11 pump stations followed by design drawings and specifications for improvements. Improvements for each station are designed based on sanitary sewer flow requirements, site constraints and limitations, applicable code requirements, and with input from O&M staff to better facilitate ease of operation. Design included demolition and project improvement plans for each station. Project design elements included provisions to provide pump station redundancy in regards to station capacity, bypass pumping, back-up controls, emergency power, and storage requirements.
 - **Mountain View Shoreline Sewer Pump Station Assessment and Improvements – City of Mountain View (2015 – 2016), Contract Value: \$189,451.** The project involved cost-benefit analyses of eliminating or downsizing the existing Shoreline Sewer Pump Station (SPS) and constructing a gravity interceptor to convey sewage to the San Antonio Meter Station and ultimately to the Palo Alto Regional Water Quality Control Plant (PARWQCP) through the 72-inch diameter Joint Intercepting Sewer. Three alignments were selected to be analyzed to determine the cost-benefit of a sewer trunk interceptor. Following up on the assessment, improvements are currently being designed for the sewer pump station (SPS) and include force main piping, ventilation, and overall reliability improvements.

Certifications & Licenses

- Registered Civil Engineer California 84183

References

- Raymundo Guttierrez | Engineer I, County of Madera Public Works
Raymundo.Guttierrez@MaderaCounty.com | Tel: (559) 675-7811
- Karla Traynor Smith | Project Manager, Stanford University | KarlaT@Stanford.edu | Tel: (650) 725-9802
- Garrett Readler | Principal, Kier & Wright | GReadler@KierWright.com | Tel: (925) 245-8788



Hillcrest & Silverado
Pump Station Replacement Project



Howard Reiss, PE

555 Exchange Court, Livermore CA 94550 | (925) 525-2596 | HowardR@MountainCascade.com

Education

BACHELOR'S OF SCIENCE | MARCH 2011 | CAL POLY, SAN LUIS OBISPO

- Major: Civil Engineering
- Graduated Cum Laude & with Honors

Experience

PROJECT MANAGER | MOUNTAIN CASCADE, INC. | APRIL 2013 - PRESENT

- Manage all day-to-day office responsibilities on underground and pump station projects up to \$16M.
- Prepare and submit RFI's, submittals, value engineering proposals, traffic control plans, piping and equipment layout drawings, start-up plans, and disinfection plans.
- As necessary, directly manage trade crews during the construction, start-up, and testing of water and wastewater pumping and treatment facilities.
- Develop baseline schedules using Microsoft Project for projects up to \$3M.
- Work closely with outside schedulers to develop and maintain Primavera P6 schedules on projects up to \$16M.
- Coordinate multiple MEP systems and prepare piping layouts using AutoCAD LT 2015.
- Perform SWPPP inspections under the direction of a QSP.
- Past and Current Noteworthy Projects:
 - **Friant-Kern Canal Pipeline Project** - \$15.8M, install roughly 23,500 linear feet of 60" welded steel raw water pipeline, install a new turnout structure and flow meter vault, motorized valves, flow meters, a traveling screen, precast control building, and associated site work and controls.
 - **Hayward WPCF Primary Clarifier Conversion Project** - \$2.8M, selectively demolish portions of an existing DAFT and convert to a primary clarifier, including new stainless steel clarifier mechanism, concrete repair, coatings, installation of 2 dual disc pumps, 1 submersible pump, and associated controls and site work.
 - **T-4 Tank and Booster Pump Station** - \$10.1M, construct a new potable water booster pump station and 3 million gallon pre-stressed and post-tensioned concrete water tank. Install a new 750 kW generator, (3) 125 HP vertical turbine pumps, hydro-pneumatic surge tank and compressor, and associated site work and controls.
 - **Los Osos Wastewater Collections System Pump Stations** - \$9.2M, install 24 submersible grinder pumps, 20 solids handling submersible wastewater pumps, 6 natural gas generators, 2 diesel generators, an odor control unit, and associated controls and site work.



Hillcrest & Silverado
Pump Station Replacement Project

ENGINEER | SHIMMICK CONSTRUCTION COMPANY, INC. | MAY 2011 – APRIL 2013

- Prepared work plans and supported crews performing demolition, earthwork, pump and blower installation, and buried water line installation work.
- Prepared and qualified welding procedure specifications for carbon and stainless steel pipe.
- Coordinated quality control inspections for coatings and welding of steel pipe.
- Performed concrete and rebar pre-inspections.
- Managed and coordinated concrete, rebar, post-tensioned tank, sealant, and trucking subcontractors.
- Prepared take-offs and priced structural concrete, CIDH pilings, soldier pile walls, demolition, and SWPPP work while working closely with a team of other estimators.
- Contacted potential subcontractors for pricing on specialty scopes of work while paying attention to DBE and SBE project goals and GFE requirements.

Certifications & Licenses

- California Licensed Professional Engineer No. 84800
- Cal OSHA 10-Hour, Completed May 2011
- Cal OSHA 30-Hour, Completed July 2013
- Adult CPR/First Aid Trained, Current Through June 2019
- Confined Space Trained by the National Utility Contractors' Association
- Scaffold Competency Trained, October 15, 2012

References

- Suzan England, PE | Senior Utilities Engineer, City of Hayward | Suzan.England@Hayward-Ca.gov
Tel: (510) 293-5098 | Cell: (510) 385-3133
- Jim Brantley, PE | Construction Manager (Ret.), HDR Inc. | jimBrantley805@gmail.com
Cell: (805) 801-6162
- Matthew Willbanks, PE | Sr. Construction Manager | MWillbanks@yahoo.com
Cell: (559) 786-0259



Hillcrest & Silverado
Pump Station Replacement Project



Aaron Campiotti

555 Exchange Court, Livermore CA 94550 | (209) 559-0138 | AaronC@MountainCascade.com

Education

HIGH SCHOOL DIPLOMA | JUNE 1995 | ROBERT ELLIOT HIGH SCHOOL, MODESTO, CA

Experience

SUPERINTENDET | MOUNTAIN CASCADE, INC. | JANUARY 2009 - PRESENT

- Manage crews of carpenters, laborers, and operators throughout all stages of water and wastewater construction projects.
- Construct wooden and Patton forms for new concrete structures.
- Place concrete in walls, pads, and foundations for operations buildings, turnout structures, generator pads, and valve vaults.
- Install doors and door hardware.
- Install sheeting and siding on finished structures.
- Install and supervise the installation of pumps, including vertical turbine, screw, and submersible pumps.
- Install plant piping for pumps, chlorine injection, ozone injection, and air and surge tank systems.
- Schedule and coordinate subcontractors, crews, and quality assurance/quality control inspections to ensure efficient, safe, and timely completion of projects.
- Past and Current Noteworthy Projects:
 - **River Island Pump Station Project** – Private Contract Value, install new sewer and potable water pump station facilities; (3) CMU pump buildings ranging in size from 800 SF to 1,950 SF, (2) new steel potable water storage tanks, (3) 125 HP vertical turbine potable water pumps, (1) 250 HP fire pump, (6) 110 HP submersible sewer lift pumps, (2) chlorine injection systems and chlorine storage tanks, and a 1,000 kW back-up generator.
 - **Friant-Kern Canal Pipeline Project** - \$15.8M, install roughly 23,500 linear feet of 60" welded steel raw water pipeline, install a new turnout structure and flow meter vault, motorized valves, flow meters, a traveling screen, precast control building, and associated site work and controls.
 - **T-4 Tank and Booster Pump Station** - \$10.1M, construct a new potable water booster pump station and 3 million gallon pre-stressed and post-tensioned concrete water tank. Install a new 750 kW generator, (3) 125 HP vertical turbine pumps, hydro-pneumatic surge tank and compressor, and associated site work and controls.
 - **North Douglas County Water Line Inter-Tie Project – North County Booster Pump Station** - \$2.6M, construct a new potable water booster pump station, including a 1,700 square foot CMU pump building with standing seam metal roof, (3) 125 HP barrel pumps, (2) 150 HP barrel pumps, hydro-pneumatic surge tank, chlorine injection system, and associated site work and controls.



**Hillcrest & Silverado
Pump Station Replacement Project**

- **Sacramento River East Levee Phase 2E RD1000 Pumping Plant No. 2 Reconstruction - \$7.6M,**
Reconstruction of an existing storm water pump station, including 30", 34", 42", and 48" storm water discharge pipelines, storm drain outfall, storm drain intake structure, 27' trash rack, and 540 square foot CMU equipment building with standing seam metal roof.

CARPENTER | BASCO CONSTRUCTION | 2007 – JANUARY 2009

- Built single-family residential homes from start to finish.
- Prepared sites, formed, and placed foundations.
- Framed and sheeted exterior walls, roofs, and engineered floors.
- Installed doors, windows, siding, and trim.

Certifications & Licenses

- California Contractor's Class B License #898748
- Cal OSHA 30-Hour
- Adult CPR/First Aid Trained
- Certified Operator, Class 7 Forklift
- Certified Operator, Genie Z34/22, JLG 450E, and JLG E300 Man Lifts

References

- Ken Reed | Senior Construction Manager, City of Lathrop | kreed@ci.lathrop.ca.us
Tel: (209) 941-7363 | Cell: (209) 712-3136
- Richard Baker | Senior Construction Inspector, Provost & Prichard | RBaker@ppeng.com
Cell: (209) 601-8066
- Matthew Willbanks, PE | Senior Construction Manager | MWillbanks@yahoo.com
Cell: (559) 786-0259



Hillcrest & Silverado
Pump Station Replacement Project



Roger Williamson

555 Exchange Court, Livermore CA 94550 | (925) 525-2794 | RogerW@MountainCascade.com

Education

BACHELOR'S OF SCIENCE | 1982 | PORTLAND STATE UNIVERSITY

- Major: Civil Engineering

Experience

EXECUTIVE VICE PRESIDENT | MOUNTAIN CASCADE, INC. | 1989 - PRESENT

- Manage all public works contracts; select and oversee all management teams.
- Work with Owners and MCI management teams to promote project-level partnering.
- Work closely with MCI's Corporate Safety Director and Human Resources staff to ensure the implementation of company policies and procedures.
- Past and Current Noteworthy Projects:
 - **City of Hayward Recycled Water Distribution System** - \$14.4M, install 7.9 miles of 6", 8", and 12" PVC recycled water lines, (5) pilot tube auger bores, appurtenances, and associated pavement and site restoration.
 - **Marina Coast Water District Recycled Water Pipeline and Blackhorse Recycled Water Reservoir** - \$23.2M, install roughly 42,000 linear feet of 24" DIP recycled water line, 2 MG welded steel tank, small vertical turbine pump, and associated site restoration.
 - **City of Fresno Phase 2 Regional Transmission Main – Segment A1** - \$28.4M, 26,500 LF of 48" to 66" welded steel water transmission main and associated pavement restoration.
 - **Friant-Kern Canal Pipeline Project** - \$15.8M, install roughly 23,500 linear feet of 60" welded steel raw water pipeline, install a new turnout structure and flow meter vault, motorized valves, flow meters, a traveling screen, precast control building, and associated site work and controls.
 - **Oakland Army Base Redevelopment Project** - \$36M, install (4) sanitary sewer lift stations, directional drill 6", 8", and 10" sanitary sewer fore main. Installation of 15" and 12" HDPE sanitary sewer using an Axis Guided Bore System. Install approximately 2 miles of HDPE domestic water line and approximately 2 miles of HDPE reclaimed water line. Install 6'x5' reinforced storm-drain box culvert. Install (9) storm drain structures and associated RCP storm drain pipe.
 - **Woodland-Davis Water Supply Project** - \$25.1M, design-build project where MCI installed nearly 15 miles of raw and potable water pipeline, a new flow control vault, bypassing, (2) horizontal directional drills, and (3) tunnels.
 - **Sacramento River East Levee Phase 2E RD1000 Pumping Plant No. 2 Reconstruction** - \$7.6M, Reconstruction of an existing storm water pump station, including 30", 34", 42", and 48" storm water discharge pipelines, storm drain outfall, storm drain intake structure, 27' trash rack, and 540 square foot CMU equipment building with standing seam metal roof.



Hillcrest & Silverado Pump Station Replacement Project

- **SFPUC San Joaquin Pipeline – Western Segment** - \$50.5M, install approximately 11 miles of 78" diameter welded steel pipe and appurtenances. 4 bores, an aqueduct crossing, vaults, cathodic protection, pavement restoration, and demolition.

OPERATIONS MANAGER | DALTON CONSTRUCTION | 1982 - 1989

- Managed day-to-day company operations, including scheduling of manpower and equipment and selecting and overseeing all management teams.

Certifications & Licenses

- Cal OSHA 30-Hour
- Adult CPR/First Aid Trained
- HAZWOPER 40-Hour

References

- Hans Vermeulen, PE | Owner & President, JM Turner Engineering | hans@jmteng.com
Tel: (707) 528-4503
- Ken Norgaard, PE | Owner & President, Delta Surveying | Delta@Softcom.net
Tel: (209) 649-0269
- Mike Jaeger, PE | Owner, Tanner-Pacific | MJaeger@TannerPacific.com | Tel: (925) 382-1950



Hillcrest & Silverado
Pump Station Replacement Project



Rickey Arslanian, CHST

555 Exchange Court, Livermore CA 94550 | (925) 525-5420 | RickeyA@MountainCascade.com

Education

CERTIFICATE IN CONSTRUCTION MANAGEMENT | IN-PROGRESS | CSU EAST BAY

HIGH SCHOOL DIPLOMA | JUNE 2000 | FOOTHILL HIGH SCHOOL, PLEASANTON, CA

Experience

CORPORATE HEALTH & SAFETY DIRECTOR | MOUNTAIN CASCADE, INC. | 2004 - PRESENT

- Work with corporate officers to develop and implement company-wide safety policies and procedures to ensure compliance with current Cal OSHA standards and reduce incidents and injuries within the company.
- Develop and administer safety training for new and current employees to ensure compliance with Cal OSHA regulations and corporate safety policies.
- Oversee workers' compensation, auto, and general liability insurance claims.
- Plan and lead quarterly meetings of all company officers, project managers, project coordinators, superintendents, and foremen to continually update all managerial employees of new company policies, legislation, and industry-wide developments in safety. Research and present on topics of particular relevance at each meeting.
- Write and lead the implementation of site-specific safety plans and procedures. Periodically conduct job-site inspections to ensure Cal OSHA regulations and the aforementioned safety plan are being adhered to.
- As necessary, conduct job-site tail-gate safety meetings.
- Past and Current Noteworthy Projects:
 - **Friant-Kern Canal Pipeline Project** - \$15.8M, install roughly 23,500 linear feet of 60" welded steel raw water pipeline, install a new turnout structure and flow meter vault, motorized valves, flow meters, a traveling screen, precast control building, and associated site work and controls.
 - **Oakland Army Base Redevelopment Project** - \$36M, install (4) sanitary sewer lift stations, directional drill 6", 8", and 10" sanitary sewer fore main. Installation of 15" and 12" HDPE sanitary sewer using an Axis Guided Bore System. Install approximately 2 miles of HDPE domestic water line and approximately 2 miles of HDPE reclaimed water line. Install 6'x5' reinforced storm-drain box culvert. Install (9) storm drain structures and associated RCP storm drain pipe.
 - **Sacramento River East Levee Phase 2E RD1000 Pumping Plant No. 2 Reconstruction** - \$7.6M, Reconstruction of an existing storm water pump station, including 30", 34", 42", and 48" storm water discharge pipelines, storm drain outfall, storm drain intake structure, 27' trash rack, and 540 square foot CMU equipment building with standing seam metal roof.



Hillcrest & Silverado Pump Station Replacement Project

- **SFPUC San Joaquin Pipeline – Western Segment** - \$50.5M, install approximately 11 miles of 78" diameter welded steel pipe and appurtenances. 4 bores, an aqueduct crossing, vaults, cathodic protection, pavement restoration, and demolition.

Certifications & Licenses

- Construction Health and Safety Technician
- RAE Systems Certified Technician
- Cal OSHA 30-Hour
- Adult CPR/First Aid Trained
- Construction Quality Management Certified by the Army Corps of Engineers
- OSHA Certified Gas Tester
- Scaffold Competent Person
- Trenching & Excavation Competent Person

References

- Doug Henrich, CHST, CRIS
Safety Specialist, Safety and Loss Prevention, Old Republic Contractors Insurance Group
DHenrich@orcig.com | Cell: (925) 525-8312
- Mark Stone | Insurance Agent, Alliant Insurance Services | MStone@Alliant.com | Cell: (510) 504-9204
- Shane Granberg | Lead Investigator, Dig-In Reduction Team, PG&E | S4gs@pge.com
Cell: (925) 785-0095



Hillcrest & Silverado
Pump Station Replacement Project



Wade Johnson

4501 Harlin Drive, Sacramento, CA 95826 | (209) 993-6782 | Wade@SanJoaquinElectric.com

Education

CERTIFICATE OF CONSTRUCTION MANAGEMENT | 1996 | PURDUE UNIVERSITY

Experience

VICE PRESIDENT | SAN JOAQUIN ELECTRIC, INC. | 2014 - PRESENT

- Apply over 30 years of electrical industry experience to oversee the construction of water, wastewater, industrial, commercial, food processing, agricultural, automation, PLC control systems, SCADA systems, process instrumentation, pneumatic, petrochemical, industrial lighting & controls, fiber optic, and security system projects.
- Manage and oversee both the Sacramento and Reno Divisions of San Joaquin Electric.
- Work in the capacity of a senior estimator as required and oversee the preparation of all estimates.
- Oversee corporate and business relations and provide business development, including Design-Build work, for Northern California and Nevada.
- Past and Current Noteworthy Projects:
 - **McKinley Village Storm/Sewer Lift Station** - \$800,000 (subcontract value) SJE performed the electrical scope of a combination storm and sewer lift station, which included a total of (4) 100 HP pumps, Allen Bradley PLC's, MCC's, and associated instrumentation.
 - **Cannery Storm Water Pump Station** - \$625,000 (subcontract value) SJE performed the electrical scope of the construction of a new storm water pump station, which included (4) 75 HP pumps, an MCC, Allen Bradley PLC, new radio communications system, and a new portable emergency back-up generator.
 - **Antelope Road Pump Station** - \$1.4M (subcontract value) SJE performed the electrical scope of a new bi-lateral intertie pump station between the Sacramento Suburban Water District and the San Juan Water District. Scope included (3) 200 HP vertical turbine pumps, flow meters, motorized flow control valves, a radio system with (2) antennas, an Allen Bradley PLC, instrumentation, lighting and receptacles, and a 12 kV primary electrical system.
 - **Roseville Zone 4 Pump Station** - \$942,000 (subcontract value) SJE performed the electrical scope of the construction of a new well pump station with a single 200 HP pump. Scope included a motor-operated flow control valve, flow meter, well level transmitter, PLC, fiber optics communication, and an emergency portable generator connector.

PRESIDENT | ELECTRICAL CONSTRUCTION CONSULTING, LLC | 2011-PRESENT

- Estimate electrical scopes for water and wastewater construction projects.
- Perform constructability review of electrical projects and correspondingly advise project Owners and Engineers.



Hillcrest & Silverado
Pump Station Replacement Project

- Review change orders for accuracy.

VICE PRESIDENT | AUBURN CONSTRUCTORS | 2007-2013

- Work in the capacity of a senior estimator as needed and oversee all electrical estimates.
- Utilize extensive industry experience to manage and control costs for electrical projects company-wide.

CO-OWNER & PRESIDENT | HORN ELECTRIC | 1993-2007

- Chief Estimator; oversee corporate business relations.
- Project Superintendent; coordinate and manage projects company-wide.

FOREMAN | HAYWARD ELECTRIC COMPANY | 1984-1993

- Manage and supervise 45 wiremen.
- Coordinate, lay-out, design, and schedule electrical construction projects.

Certifications & Licenses

- Previously held C-10 California Contractor's License
- Cal OSHA 30-Hour

References

- James Morris | Project Manager, Carson City Public Works | JMorris@Carson.org | Tel: (775) 887-2355
- Long Hoang | Sr. Instrumentation & Controls Engineer, Stantec Engineering| Long.Hoang@Stantec.com
Tel: (916) 773-8100
- Sharon Kimizuka, PE | Electrical Engineer, A-Teem Engineering | SKimizuka@ateem.com
Tel: (916) 457-8144



Hillcrest & Silverado
Pump Station Replacement Project



Fred Lozo

4501 Harlin Drive, Sacramento, CA 95826 | (209) 470-9428 | Fred@SanJoaquinElectric.com

Education

ASSOCIATES IN ELECTRICAL SCIENCE | 1988 | LONG BEACH CITY COLLEGE

ELECTRICAL APPRENTISHIP | 1984-1988 | US NAVAL SHIPYARD, LONG BEACH

Experience

PROJECT MANAGER | SAN JOAQUIN ELECTRIC, INC. | 2015 - PRESENT

- Apply over 30 years of field and office experience in the electrical trade to facilitate the construction of electrical systems, electronics, field instrumentation, AC/DC systems, and communication systems on both bid-build and design-build projects for water and wastewater treatment and pumping.
- Principally in charge of project planning, document control, and setting priorities to meet project milestones and customers' needs.
- Past and Current Noteworthy Projects:
 - **McKinley Village Storm/Sewer Lift Station** - \$800,000 (subcontract value) SJE performed the electrical scope of a combination storm and sewer lift station, which included a total of (4) 100 HP pumps, Allen Bradley PLC's, MCC's, and associated instrumentation.
 - **Cannery Storm Water Pump Station** - \$625,000 (subcontract value) SJE performed the electrical scope of the construction of a new storm water pump station, which included (4) 75 HP pumps, an MCC, Allen Bradley PLC, new radio communications system, and a new portable emergency back-up generator.
 - **Antelope Road Pump Station** - \$1.4M (subcontract value) SJE performed the electrical scope of a new bi-lateral intertie pump station between the Sacramento Suburban Water District and the San Juan Water District. Scope included (3) 200 HP vertical turbine pumps, flow meters, motorized flow control valves, a radio system with (2) antennas, an Allen Bradley PLC, instrumentation, lighting and receptacles, and a 12 kV primary electrical system.
 - **Roseville Zone 4 Pump Station** - \$942,000 (subcontract value) SJE performed the electrical scope of the construction of a new well pump station with a single 200 HP pump. Scope included a motor-operated flow control valve, flow meter, well level transmitter, PLC, fiber optics communication, and an emergency portable generator connector.

SUPERINTENDENT & PROJECT MANAGER | AUBURN CONSTRUCTORS | 2007 - 2015

- Principally in charge of project planning, document control, scheduling, and managing crews of electrical tradesmen.



Hillcrest & Silverado Pump Station Replacement Project

- Past Noteworthy Projects:
 - **Pleasant Grove WWTP UV Upgrade** - \$19.8M, a “Design Assist” project consisting of the construction of a new UV disinfection facility at an existing wastewater treatment plant. The project included extensive modifications to the existing process feed and metering piping, booster pumps, and plant electrical system.
 - **Dry Creek WWTP Cooling Towers** - \$3.09M, a design-build project to install (4) new evaporative cooling tower units, each capable of cooling 4.2 MGD of secondary effluent, at an existing and operating wastewater treatment plant. Cooling towers were tied into an existing 72” welded steel pipeline and control and monitoring of the new cooling towers was integrated into the existing plant’s SCADA system.

PROJECT MANAGER & SUPERINTENDENT | HORN ELECTRIC | 1995 - 2009

- Manage day-to-day operations of electrical projects on water and wastewater treatment and pumping plants.

Certifications & Licenses

- California Contractor’s Class C-10 License #599229 (Currently Inactive)
- Cal OSHA 30-Hour

References

- Jack Harbour | Construction Manager, West Yost Associates | JHarbour@WestYost.com
Tel: (530) 756-5905
- Steve Mazza | Vice President, GSE Construction | SMazza@GSEConstruction.com | Tel: (925) 525-2334
- Ramone Noska | Senior Project Manager, Gateway Pacific Contractors | Noska@GatewayPacific.com
Tel: (916) 665-4100



Hillcrest & Silverado
Pump Station Replacement Project



Summary of Subconsultants & Subcontractors



Hillcrest & Silverado Pump Station Replacement Project



Lead Designer Schaaf & Wheeler

Schaaf & Wheeler CONSULTING CIVIL ENGINEERS

Mountain Cascade, Inc has selected Schaaf & Wheeler to serve as the Lead Designer. Schaaf & Wheeler has over 30 years' experience designing municipal water and wastewater projects throughout California, Nevada, Washington, and Hawaii. An emphasis on technical quality and efficient delivery have been cause for numerous repeat clients.

Schaaf & Wheeler has committed several highly qualified, professional staff to the completion of the Hillcrest and Silverado Pump Stations Replacement Project:

Benjamin L. Schick, PE Executive Sponsor, Design

Benjamin Schick will serve as Schaaf & Wheeler's principal-in-charge; he brings over 10 years of design experience and will be available to serve as a sounding board during design and construction.

Glen Anderson, PE Sr. Project Manager – Design

Glen Anderson will serve as Schaaf & Wheeler's project manager and has over 10 years' experience specializing in pump stations. Since joining Schaaf & Wheeler in 2006, Glen has designed more than 300 potable water, storm water and sewage pump stations. While no two pump stations are exactly alike, Glen will use his vast pump station experience to ensure that the pump stations are designed to meet the City's needs. Glen will be in responsible-charge of the pump station rehabilitation design and will oversee the coordination between all of the various engineering specialties. During construction, Glen will be involved to be certain that the stations are being constructed in conformance with the design and performing as intended.

Larry Johnson, PE Sr. Engineer – Design

Larry Johnson will serve as the lead designer for the pump station and will perform the majority of the day-to-day engineering for the rehabilitation of the two pump stations. Since joining Schaaf & Wheeler in 2012, Larry has trained under Benjamin Shick and Glen Anderson in pump station design and has designed more than 100 pump stations. Larry will also be involved during construction to assist with submittal reviews, RFI responses, clarifications, and any required changes.

Electrical Subcontractor San Joaquin Electric, Inc.



SAN JOAQUIN ELECTRIC, INC.

Due to the complexity of the scope, and the fact that systems integration occurs late in the project and is necessary for the functionality of the finished product, the electrical subcontractor is one of the most important team members in the construction of a pump station or treatment plant. As such, MCI has sought-out San Joaquin Electric, Inc. to serve in this role based on their proven track record of high quality work on several past projects with MCI, such as the River Islands Storm Water and Lake Pump Station. SJE has been in business for 38 years.

San Joaquin Electric, Inc.'s team is comprised of stand-out individuals, each with decades of experience.



Hillcrest & Silverado Pump Station Replacement Project

Wade Johnson

Executive Sponsor – Electrical

Wade Johnson brings over 30 years' of experience in electrical construction; from trade work to managing the Northern California and Nevada Divisions of San Joaquin Electric. Wade has a myriad of experience working on design-build water and wastewater treatment and pump station projects, therefore, he has the knowledge to identify constructability and integration issues during the design phase of the project and mitigate them before they become delays.

Fred Lozo

Project Manager – Electrical

Fred Lozo also has over 30 years' of experience in electrical construction, including extensive recent experience managing electrical design-build projects at water and wastewater treatment plants. Some recent design-build work includes the Pleasant Grove WWTP UV Upgrade in Roseville, Ca; Clarifier Upgrade at the Dry Creek WWTP in Roseville, Ca, and the Bellevue Pump Station in Milpitas, California. Fred has successfully managed electrical scopes in excess of \$5M and will implement his extensive knowledge to develop, process and review electrical material submittals for the project, coordinate SJE's crews, and perform overall electrical coordination with other trades and suppliers.

Additional Subcontracted Work

Although not specifically selected at this time, MCI intends to subcontract the following work to qualified specialty contractors, duly licensed in California:

- Rebar Fabrication & Installation
- Masonry Construction
- Drywall (Should Alternative "A" be selected)
- Roofing
- HVAC
- Welding
- Paintings & Coatings
- Pipe Insulation
- Chlorination & Disinfection
- Quality Assurance Laboratory Services



Hillcrest & Silverado
Pump Station Replacement Project



Project Understanding & Approach



Hillcrest & Silverado Pump Station Replacement Project

Project Approach

The primary objective of Mountain Cascade's highly qualified team is to work closely with the City's Engineering and Operations staff and provide two on-time, on-budget, quality, and highly serviceable pump stations.

Mountain Cascade's project team have provided a proposal in accordance with the two design alternatives included in Attachment "E" of the Request for Proposals. MCI has included costs in its Alternative B pricing for the hazard mitigation measures requested by the City, such as generators interior to CMU pump station buildings.

Following the Kick-Off Meeting, Site Visit and Research, and the Basis of Design workshop, MCI's project team will prepare 30%, 60%, 90% and Issue for Construction (IFC) drawings as stipulated in Task 2 of Attachment "E". Feedback from the City – both Engineering staff and operations and maintenance staff – will be solicited with each revision. This will ensure the City's needs and expectations are met in the final design and ultimately the final product. Mountain Cascade, Inc; San Joaquin Electric, Inc; and other relevant subcontractors will also be involved in the review of each design revision to provide an additional measure of quality control as well as to provide input to positively influence constructability and design efficiency.

Based on prior experience, MCI and the project team recognize the greatest potential delays to a pump station project are generally associated with procurement. The long-lead, specialty items on the Hillcrest and Silverado Pump stations include, but are not necessarily limited to generators, pumps, valves, and motor controls & VFD's. In some cases, MCC's can take upwards of 20 weeks to fabricate. To this end, MCI and Schaaf & Wheeler have devised methods to expedite procurement without compromising the thoroughness of the submittal review process. This will aid in the mitigation of potential delays, ensure on-time completion, and reduce costs for all stake-holders.

Further cost and potential schedule savings are available to the City if some of the criteria set-forth in Attachment "E" Alternative B are modified. Currently, MCI is including costs to provide the generators within the

CMU buildings. Savings are likely available if the generators can be housed in sound-attenuated enclosures outside of the CMU buildings. MCI has also included costs for the construction of CMU buildings, however several different prefabricated building options exist, from metal to pre-cast concrete which may also result in savings to the project. Finally, complete, prefabricated packaged pump stations are available. In the event the City is open to the possibility of utilizing a precast building with pre-packaged pump and electrical equipment, significant savings to the project could be realized – potentially several hundred thousand dollars.

Following the completion of the "Issue for Construction" design, Schaaf & Wheeler will remain involved with the project to ensure the design intent continues to be meant. This, coupled with QA/QC within each scope of the project will ensure the pump stations constructed for the City will function as desired and provide the maximum service life.

In the event questions arise during construction, MCI intends to involve both the City and Schaaf & Wheeler to ensure the final product meets the City's needs. MCI will work to open these channels of communication during the Kick-Off Meeting and maintain them through to completion and beyond. All stake-holders (the City, Residents, and the Project Team) reap benefits from smooth, on-time completion of the project and a pragmatic approach to problem solving is key.

Finally, throughout each stage of research, design, construction, and start-up, MCI intends to proceed with the utmost sense of urgency to ensure the project is complete satisfactorily, on-time, and on-budget.



Hillcrest & Silverado
Pump Station Replacement Project



Quality Assurance & Quality Control



Hillcrest & Silverado Pump Station Replacement Project

Quality Assurance & Quality Control

Quality Assurance and Quality Control will begin with the design process. Each design revision, prior to release for review by Schaaf & Wheeler, will be internally checked to ensure constructability and conformance with the Basis-of-Design workshop and any comments on prior design revisions. Once released, each the 30%, 60%, 90%, and IFC design drawings will be reviewed by MCI's full project team. This review will encompass both constructability and checks to ensure prior comments to earlier designs have been incorporated.

During design, key components will be submitted by various subcontractors and suppliers for review by both the City and Schaaf & Wheeler for adherence to the design intent. MCI has identified the following equipment items, at a minimum, as requiring submittals: pumps, valves, generators, electrical panels (VFD, MCC, and Flow Control Panel), rebar shop drawings for concrete slabs and masonry, trusses, and HVAC equipment. Prior to the submission of any material or equipment provided by Subcontractors or Suppliers, MCI will internally review the contents of the submittal to provide an additional measure of Quality Control and ensure formal reviews from the City and Lead Designer can be conducted efficiently.

Document management throughout design, preconstruction planning, construction, and start-up will be comprised of E-Mail correspondence and electronic files with spreadsheet logs to track the status of each document (Design Revision, Submittal, RFI, Clarification Memorandum, Etc.). On projects of this size (typically less than \$5M), MCI finds that formal construction management document tracking suites add unnecessary cost and complication to the project.

During physical construction and start-up, Howard Reiss, PE will serve as the QA/QC manager. While working with Shimmick Construction on the Sunol Valley Water Treatment Plant Treated Water Reservoir and Expansion Project, a significant portion of his time was devoted to

Quality Assurance and Quality Control. He performed concrete and rebar pre-inspections; reviewed welding procedures and welder performance qualifications; and was responsible for scheduling third party testing for compaction, rebar, concrete, welding, and coatings. Therefore, he has the knowledge and experience necessary to perform these tasks again on the Hillcrest and Silverado Pump Stations Project.

Construction Quality Assurance will begin with the individual Foreman performing the work – it is expected, and will be communicated as such, that all work is to be completed per the design drawings. MCI's QA/QC manager will periodically monitor progress and communicate with Aaron Campiotti to determine when inspection hold points are approached. MCI will then perform Quality Assurance inspection – such as checking rebar for conformance with design and shop drawings, clear cover, etc. prior to calling for Quality Control Inspection.

Quality Control Inspection will be provided by a qualified, independent, third-party testing laboratory typically engaged in this type of work, though a specific laboratory has not been selected at this time. The third-party testing lab will prepare moisture-density curves on backfill materials; perform in-situ moisture and density testing of backfill; rebar inspection; concrete sampling and testing; masonry mortar and grout sampling and testing; epoxy anchor inspection; visual weld inspection; and any other formal inspections required by the California Building Code or requested by the Lead Designer.

All parties engaged in construction activities will also provide safe access to the Lead Designer and City or their representative as necessary for them to witness and/or inspect work.

Prior to shipment, pumps will undergo standard factory testing, which includes hydrostatic testing and verification of operation (usually two points along the pump curve).

MCC's, including the variable frequency drives, will undergo factory testing prior to shipment, and this factory testing is available to be witnessed by the City and Lead Designer, if so desired. The bulk of PLC and OIT programming will also be available for witness at this time. Switchboards will be available for inspection prior to shipment, but will not undergo a specific factory test.



Hillcrest & Silverado Pump Station Replacement Project



Emergency back-up generators will undergo a standard manufacturer's quality control check-out and test prior to shipment, and once installed, will be started-up and receive a 4-hour load test.

NETA testing of newly installed switchgear will be performed by a qualified third-party testing firm and will be available for witness by the City and Lead Designer in the Field.

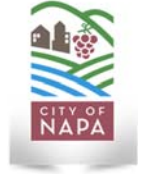
MCI and subcontractors intend to complete three phases of loop checking to ensure functionality of the final product –

1. Dry-run loop checks.
2. Loop checks with the integrator back to the PLC, and,
3. Loop checks back to the OIT

MCI's QA/QC program will extend to each subcontractor and supplier; each subcontract or purchase order will include verbiage in regards to the applicability of standards included under the Prime Contract to the subcontractor or supplier. MCI intends to enforce such language in order to minimize any potential QA/QC issues or impacts to the project as a whole.



Hillcrest & Silverado
Pump Station Replacement Project



Project Schedule

Design Build Services for the Replacement of Hillcrest, Silverado Pump Station City of Napa

| ID | Task Mode | Task Name | Duration | Total Slack | Start | Finish | Predecessors | Successors | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-----------|---|----------|-------------|--------------|--------------|--------------|-------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | <div><div>April 13/10</div><div>July 2019</div><div>July 16/2</div><div>October 18/25</div><div>January 2020</div><div>January 112/29</div><div>April 13/22</div><div>July 2020</div><div>July 16/14</div><div>October 19/6</div><div>January 2021</div><div>January 11/10</div><div>April 14/4</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | Proposal Submission | 1 day | 8 days | Thu 5/9/19 | Thu 5/9/19 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Interview | 1 day | 0 days | Wed 5/22/19 | Wed 5/22/19 | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | Selection Notification | 1 day | 0 days | Tue 5/28/19 | Tue 5/28/19 | 2 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | City Council Action | 1 day | 0 days | Tue 6/18/19 | Tue 6/18/19 | 3 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | Notice to Proceed | 0 days | 0 days | Mon 7/8/19 | Mon 7/8/19 | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Kick Off Meeting | 1 day | 0 days | Mon 7/8/19 | Mon 7/8/19 | 5 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Site Visit Research | 5 days | 0 days | Tue 7/9/19 | Mon 7/15/19 | 6 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Bases of Design Work Shop | 1 day | 0 days | Tue 7/16/19 | Tue 7/16/19 | 7 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | Develop Bases of Design | 25 days | 0 days | Wed 7/17/19 | Tue 8/20/19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | Mechanical | 20 days | 0 days | Wed 7/17/19 | Tue 8/13/19 | 8 | 11SS+5 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | Electrical | 20 days | 0 days | Wed 7/24/19 | Tue 8/20/19 | 10SS+5 days | 12SS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | Structural | 20 days | 0 days | Wed 7/24/19 | Tue 8/20/19 | 11SS | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | Soils Investigation | 5 days | 0 days | Wed 8/21/19 | Tue 8/27/19 | 12 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | Utility Survey | 1 day | 0 days | Wed 8/28/19 | Wed 8/28/19 | 13 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Prepare Construction Documents | 55 days | 0 days | Thu 8/29/19 | Thu 11/14/19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | Prepare 30% Drawings | 5 days | 0 days | Thu 8/29/19 | Thu 9/5/19 | 14 | 17,23SS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | Review 30% Drawings | 5 days | 0 days | Fri 9/6/19 | Thu 9/12/19 | 16 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | Prepare 60% Drawings | 15 days | 0 days | Fri 9/13/19 | Thu 10/3/19 | 17 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | Review 60% Drawings | 5 days | 0 days | Fri 10/4/19 | Thu 10/10/19 | 18 | 20,26,27,28,29,30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | Prepare 90% Drawings | 15 days | 101 days | Fri 10/11/19 | Thu 10/31/19 | 19 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | Review 90% Drawings | 5 days | 101 days | Fri 11/1/19 | Thu 11/7/19 | 20 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | Prepare IFC Drawings 100% | 5 days | 101 days | Fri 11/8/19 | Thu 11/14/19 | 21 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | Pre Construction Services | 45 days | 111 days | Thu 8/29/19 | Thu 10/31/19 | 16SS | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | Biological Resource Monitoring (Cat-ex) | 0 days | 101 days | Thu 11/14/19 | Thu 11/14/19 | 23,22 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | Submittal Preparation | 70 days | 0 days | Fri 10/11/19 | Wed 1/22/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | Pumps | 30 days | 40 days | Fri 10/11/19 | Thu 11/21/19 | 19 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | VFD's | 70 days | 0 days | Fri 10/11/19 | Wed 1/22/20 | 19 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | Transfer Switches | 40 days | 42 days | Fri 10/11/19 | Mon 12/9/19 | 19 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | Generators | 20 days | 77 days | Fri 10/11/19 | Thu 11/7/19 | 19 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | Flow Meters | 40 days | 67 days | Fri 10/11/19 | Mon 12/9/19 | 19 | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | Valves | 20 days | 87 days | Fri 10/11/19 | Thu 11/7/19 | 19 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Project: Design Build Services for
Date: Wed 5/8/19

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Critical

Critical Split

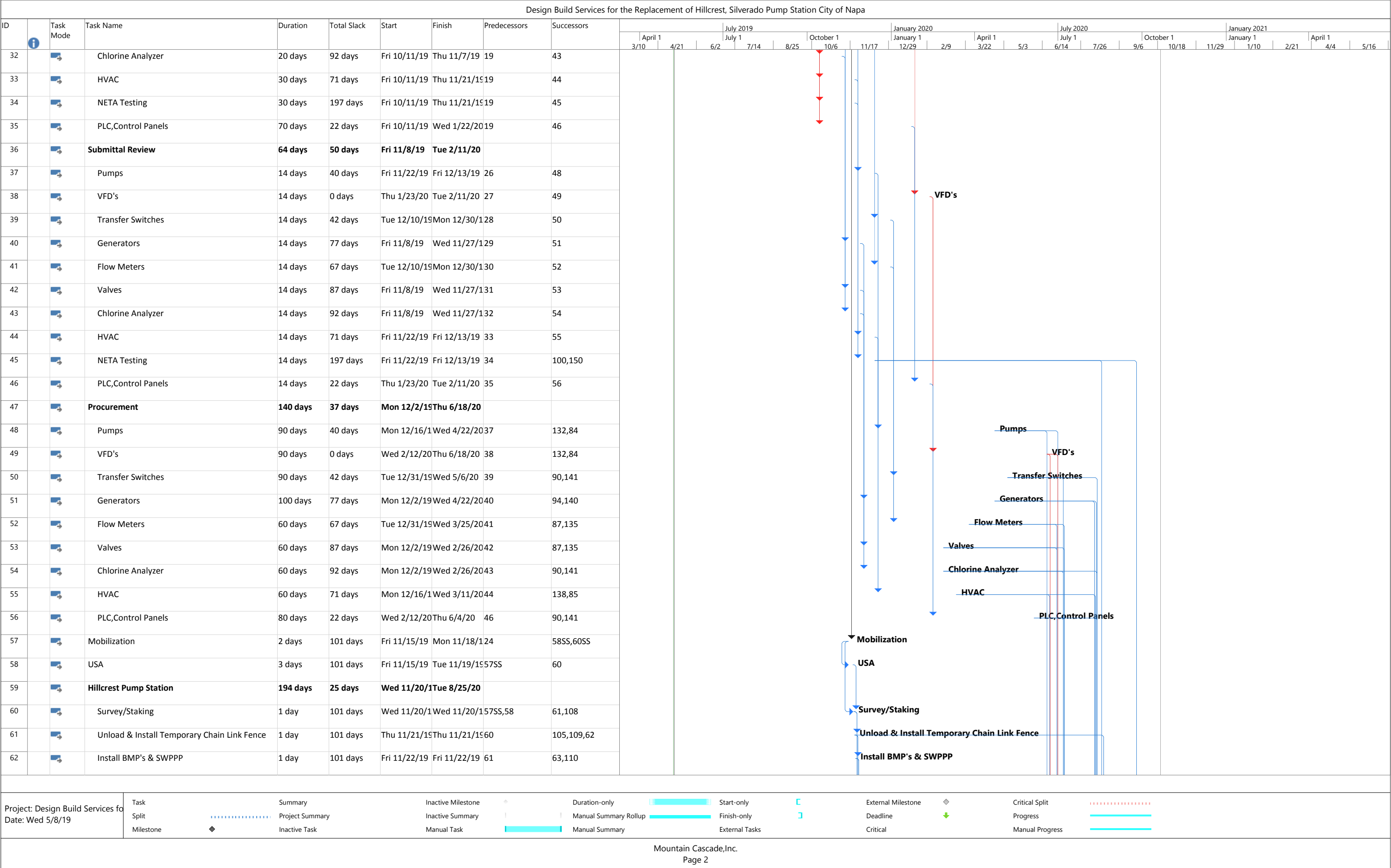
Progress

Manual Progress

Mountain Cascade,Inc.

Page 1

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| Design Build Services for the Replacement of Hillcrest, Silverado Pump Station City of Napa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------|---|----------|-----------------|--------------------|--------------|-----------------------|--------------|----------------|------|--------------------|------|-----------------|-----------|-------|-------|--------------|------|-----|-----------|------|-----|-----------|-------|------|--------------|-----|---------|--|
| ID | | Task Mode | Task Name | Duration | Total Slack | Start | Finish | Predecessors | Successors | April 1 | | July 2019 | | | October 1 | | | January 2020 | | | July 2020 | | | October 1 | | | January 2021 | | April 1 | |
| | | | | | | | | | | 3/10 | 4/21 | 6/2 | 7/14 | 8/25 | 10/6 | 11/17 | 12/29 | 2/9 | 3/22 | 5/3 | 6/14 | 7/26 | 9/6 | 10/18 | 11/29 | 1/10 | 2/21 | 4/4 | 5/16 | |
| 63 | | | Demo & Remove Above-Grade Pumps & Piping | 2 days | 101 days | Mon 11/25/19 | Tue 11/26/19 | 62 | 64,111 | | | | | | | | | | | | | | | | | | | | | |
| 64 | | | Remove Trees | 1 day | 101 days | Wed 11/27/19 | Wed 11/27/19 | 163 | 65 | | | | | | | | | | | | | | | | | | | | | |
| 65 | | | Demo Concrete Slab on Grade | 1 day | 101 days | Mon 12/2/19 | Mon 12/2/19 | 64 | 66,112 | | | | | | | | | | | | | | | | | | | | | |
| 66 | | | Excavation, Subgrade Prep, Place AB | 3 days | 101 days | Tue 12/3/19 | Thu 12/5/19 | 65 | 67,113 | | | | | | | | | | | | | | | | | | | | | |
| 67 | | | Remove & Replace Riser Spools | 2 days | 101 days | Fri 12/6/19 | Mon 12/9/19 | 66 | 68,114 | | | | | | | | | | | | | | | | | | | | | |
| 68 | | | Electrical Trenching & Backfill | 10 days | 101 days | Tue 12/10/19 | Mon 12/23/19 | 67 | 69,115 | | | | | | | | | | | | | | | | | | | | | |
| 69 | | | Form Concrete Slab on Grade | 3 days | 101 days | Tue 12/24/19 | Fri 12/27/19 | 68 | 70,116 | | | | | | | | | | | | | | | | | | | | | |
| 70 | | | Place & Finish Concrete Generator Slab on Grade | 1 day | 101 days | Mon 12/30/19 | Mon 12/30/19 | 69 | 71 | | | | | | | | | | | | | | | | | | | | | |
| 71 | | | Strip Concrete Forms | 1 day | 101 days | Tue 12/31/19 | Tue 12/31/19 | 70 | 118,72 | | | | | | | | | | | | | | | | | | | | | |
| 72 | | | Form Building Slab on Grade | 1 day | 101 days | Thu 1/2/20 | Thu 1/2/20 | 71 | 73,120 | | | | | | | | | | | | | | | | | | | | | |
| 73 | | | Place & Finish Building Slab on Grade | 1 day | 101 days | Fri 1/3/20 | Fri 1/3/20 | 72 | 74,117,121 | | | | | | | | | | | | | | | | | | | | | |
| 74 | | | Strip Concrete Forms - Building Slab | 1 day | 101 days | Mon 1/6/20 | Mon 1/6/20 | 73 | 77,122,75 | | | | | | | | | | | | | | | | | | | | | |
| 75 | | | Joint Sealant | 1 day | 101 days | Tue 1/7/20 | Tue 1/7/20 | 74 | 119,76 | | | | | | | | | | | | | | | | | | | | | |
| 76 | | | Construct CMU Building | 4 days | 101 days | Wed 1/8/20 | Mon 1/13/20 | 75 | 77 | | | | | | | | | | | | | | | | | | | | | |
| 77 | | | Construct Masonry Blockouts | 1 day | 101 days | Tue 1/14/20 | Tue 1/14/20 | 74,76 | 78,124 | | | | | | | | | | | | | | | | | | | | | |
| 78 | | | Wet-Set Roof Ledger | 1 day | 101 days | Wed 1/15/20 | Wed 1/15/20 | 77 | 79,125 | | | | | | | | | | | | | | | | | | | | | |
| 79 | | | Strip Masonry Blockouts | 1 day | 101 days | Thu 1/16/20 | Thu 1/16/20 | 78 | 80,126 | | | | | | | | | | | | | | | | | | | | | |
| 80 | | | Set Metal Roof Trusses | 1 day | 101 days | Fri 1/17/20 | Fri 1/17/20 | 79 | 81,127 | | | | | | | | | | | | | | | | | | | | | |
| 81 | | | Install Metal Roof Decking | 1 day | 101 days | Mon 1/20/20 | Mon 1/20/20 | 80 | 82,128 | | | | | | | | | | | | | | | | | | | | | |
| 82 | | | Install Metal Roofing | 3 days | 101 days | Tue 1/21/20 | Thu 1/23/20 | 81 | 83,129 | | | | | | | | | | | | | | | | | | | | | |
| 83 | | | Install Doors & Hardware | 2 days | 101 days | Fri 1/24/20 | Mon 1/27/20 | 82 | 130,84 | | | | | | | | | | | | | | | | | | | | | |
| 84 | | | Unload & Set Pumps and Generator | 1 day | 0 days | Fri 6/19/20 | Fri 6/19/20 | 48,49,83 | 132,85 | | | | | | | | | | | | | | | | | | | | | |
| 85 | | | Pump Station Building HVAC | 5 days | 0 days | Mon 6/22/20 | Fri 6/26/20 | 55,84 | 139,86 | | | | | | | | | | | | | | | | | | | | | |
| 86 | | | Install Overhead Crane | 1 day | 0 days | Mon 6/29/20 | Mon 6/29/20 | 85 | 87,131 | | | | | | | | | | | | | | | | | | | | | |
| 87 | | | Install Pump Piping, Fittings, & Valves | 2 days | 0 days | Tue 6/30/20 | Wed 7/1/20 | 52,53,86 | 135,88 | | | | | | | | | | | | | | | | | | | | | |
| 88 | | | Install & Anchor Pump Skids | 2 days | 0 days | Thu 7/2/20 | Fri 7/3/20 | 87 | 89,133 | | | | | | | | | | | | | | | | | | | | | |
| 89 | | | Grout Pumps | 1 day | 0 days | Mon 7/6/20 | Mon 7/6/20 | 88 | 134,91,97,90 | | | | | | | | | | | | | | | | | | | | | |
| 90 | | | Electrical, Instrumentation, and Controls | 20 days | 0 days | Tue 7/7/20 | Mon 8/3/20 | 50,54,56,89 | 91 | | | | | | | | | | | | | | | | | | | | | |
| 91 | | | Install Standby Genset & Anchor | 1 day | 0 days | Tue 8/4/20 | Tue 8/4/20 | 89,97,90 | 92,136 | | | | | | | | | | | | | | | | | | | | | |
| 92 | | | Install Genset Exhaust & Silencer | 2 days | 0 days | Wed 8/5/20 | Thu 8/6/20 | 91 | 137,93 | | | | | | | | | | | | | | | | | | | | | |
| 93 | | | Install Genset Vent Piping | 1 day | 1 day | Fri 8/7/20 | Fri 8/7/20 | 92 | 95,138,94 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project: Design Build Services for Date: Wed 5/8/19 | | | Task | | Summary | Inactive Milestone | | Duration-only | | Start-only | | External Milestone | | Critical Split | | | | | | | | | | | | | | | | |
| | | | Split | | Project Summary | Inactive Summary | | Manual Summary Rollup | | Finish-only | | Deadline | | Progress | | | | | | | | | | | | | | | | |
| | | | Milestone | | Inactive Task | Manual Task | | Manual Summary | | External Tasks | | Critical | | Manual Progress | | | | | | | | | | | | | | | | |
| Mountain Cascade,Inc. Page 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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ATTACHMENT 4

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| Design Build Services for the Replacement of Hillcrest, Silverado Pump Station City of Napa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------|-------------------------------|----------|-------------|-------------|-------------|--------------|------------|---------|------|-----|------|-----------|------|-------|-------|-----------|------|-----|------|--------------|-----|-------|-------|-----------|------|-----|------|-----------|--|--|--|
| ID | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | Task Mode | Task Name | Duration | Total Slack | Start | Finish | Predecessors | Successors | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | April 1 | | | | July 2019 | | | | October 1 | | | | January 2020 | | | | July 2020 | | | | October 1 | | | |
| | | | | | | | | | | 3/10 | 4/21 | 6/2 | 7/14 | 8/25 | 10/6 | 11/17 | 12/29 | 2/9 | 3/22 | 5/3 | 6/14 | 7/26 | 9/6 | 10/18 | 11/29 | 1/10 | 2/21 | 4/4 | 5/16 | | | | |
| 156 | | | Notice of Completion | 1 day | 0 days | Wed 10/14/2 | Wed 10/14/2 | 155SS | 157SS | | | | | | | | | | | | | | | | | | | | | | | | |
| 157 | | | Preparation of Project Report | 5 days | 0 days | Wed 10/14/2 | Tue 10/20/2 | 156SS | 158 | | | | | | | | | | | | | | | | | | | | | | | | |
| 158 | | | Project Completion | 0 days | 0 days | Tue 10/20/2 | Tue 10/20/2 | 157 | | | | | | | | | | | | | | | | | | | | | | | | | |

Project: Design Build Services for
Date: Wed 5/8/19

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Critical

Critical Split

Progress

Manual Progress



Hillcrest & Silverado
Pump Station Replacement Project



Exceptions to Scope of Work



Hillcrest & Silverado
Pump Station Replacement Project



Exceptions to Scope of Work

Mountain Cascade, Inc., notes only minor qualifications to the scope of work listed in the Request for Proposal.

Network Connections

According to Attachment "D", the communications to the Silverado Pump Station are accomplished via (2) 2" conduits connection to a "Junction Box at Strategic Location Outside Milliken Water Treatment Plant". MCI and subcontractors assume these conduits can be intercepted at the Silverado Site with a new junction box, and new conductors can be spliced into the good portion of the existing conductors. MCI does not intend to re-pull the full run.

Maintenance, Fueling, or Monitoring of Existing Bypass Pump

Mountain Cascade, Inc has not included budget in its proposal to take-over maintenance, fuel, or monitoring of the rental bypass pump currently on-site.



Hillcrest & Silverado
Pump Station Replacement Project



Exceptions To Terms of Agreement



Hillcrest & Silverado
Pump Station Replacement Project



Exceptions to Terms of Agreement

Mountain Cascade, Inc. does not note any exceptions to the terms and conditions of the sample contract included in the Request for Proposal document.



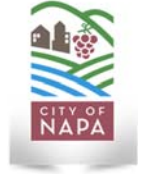
Hillcrest & Silverado
Pump Station Replacement Project



Cost Proposal Submission Forms



Hillcrest & Silverado
Pump Station Replacement Project



Recommended Value Modifications



Hillcrest & Silverado
Pump Station Replacement Project



Recommended Value Modifications

Confidential - Supplemental Information
Provided

As indicated elsewhere in this proposal, MCI has included costs for CMU buildings with interior emergency back-up generators as dictated by Attachment E of the RFP. MCI has identified the following potential modifications which may result in reduced costs to the project:

- Alternate A – a 135 kW generator *may* be oversized for the loads at the Silverado Pump Station, though further sizing evaluation would be necessary to make such a determination.
- Alternate B – Moving the emergency back-up generators into packaged, sound-attenuated enclosures outside of the CMU buildings will likely yield savings to the project by potentially reducing the footprint of the new buildings, eliminating portions of the HVAC system, and eliminating separate exhaust and vent piping systems.
- Alternate B – The use of a pre-cast building or pre-fabricated metal building in lieu of a CMU building may result in savings to the project.
- Alternate B – Based on the prior bullet point, if the City is amenable to the use of a pre-cast building, Precision Pumping Systems offers a pre-packaged lift station. Additional information regarding the magnitude of cost savings and options available is included in the “Confidential” envelope.