CUPERTINO ELECTRIC INC.

DESIGN-BUILD CONTRACT

City of Santa Rosa

CityBus EV Fleet Electrification Project | Contract Number 02340

1132 North 7th Street, San Jose, CA 95112 | 408-495-1712
Kris Fabing kris_fabing@cei.com

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Bid Guarantee (Bid Bond)	N/A (hard copy mailed)

February 16, 2021

City of Santa Rosa
55 Stony Point Rd.
Santa Rosa, CA 95401
ATTN: Chris Catbagan, P.E.

Subject: City Bus EV Fleet Electrification (Contract Number: C02340)

Cupertino Electric, Inc. (CEI) is pleased to submit the following response to the City of Santa Rosa request for proposal, City Bus EV Fleet Electrification. CEI is the To-the-Meter (TtM) contractor for the utility make-ready scope of work through PG&E for this project. By selecting CEI as the contractor for this RFP, we would be providing full turn-key solution to the city. As a turn-key contractor CEI would have the ability to: create opportunity for cost savings, manage the project with direct contacts, allow flexibly for schedule changes and adjustments to meet the goals of City of Santa Rosa.

As one of the largest contractors on the West Coast with established corporate offices across the state (San Jose, San Francisco, Concord, Roseville, and Santa Fe Springs) we are deeply invested in successful, sustainable alliances. CEI has more than 65 years of experience and over a decade of Electric Vehicle Supply Equipment (EVSE) installations. Cupertino Electric, Inc. is the largest EVSE EPC contractor for PG&E, with over 4,500 ports completed and an additional 1,500 ports in various stages of design or construction. CEI is well acquainted with complex and challenging EVSE projects, having completed multiple concurrent large-scale projects across the state. CEI believes we are uniquely situated to address the needs of this RFP with our extensive utility and commercial design-build experience.

Our team understands the industry environment based on decades of working closely with large scale commercial customers, large utility companies and construction partners. This experience provides us with the ability to address the specific needs of each project and ensure quality, on time delivery and in full compliance with all regulatory agencies. CEI offers a project management and production team that specifically focus on EV Charging projects. Our field leadership is all Electric Vehicle Infrastructure Training Program (EVITP) certified and extensive experience with the make-ready and installation of electric vehicle chargers.

Our commitment is to evolve with the changing wants, needs, and challenges of our partners.

Through consistent, proactive, and open communication, we can ensure strong working relationships that focus on achieving results for convenient and easily accessible fast charging.

Thank you for the opportunity, we look forward to working together with your team to provide innovative, thoughtful and effective solutions.

Sincerely,

Chris Martin

Sr. Director of Distributed Generation
(408) 386-3754
Chris_Martin@cei.com

CUPERTINO ELECTRIC, INC.

INNOVATION, EXPERIENCE AND AUTHENTICITY

Cupertino Electric, Inc. (CEI) is a private company that provides expert **Engineering, Procurement and Construction (EPC) services** for a constantly evolving world. Throughout our more than 65-year history, we've blended a core belief in the power of people with a relentless pursuit of new ideas. With every project, we strive for technical excellence to give contractors and owners a partner they can count on today and in the future.

CORE MARKETS

Our business is generally focused on three key areas: **Commercial, Energy, Data Center.**

#5 electrical contractor in the nation

2.3 GWh of BESS installed or under construction

2+ GW solar PV installed or under construction

2,100 MW of generator capacity installed

7,500+ EV chargers installed

CORE VALUES

SAFETY

We look out for ourselves and each other because safety comes first.

INTEGRITY

We do the right thing even when no one is looking.

EXCELLENCE

We apply expertise and continuous improvement to deliver results we can be proud of every day.

INNOVATION

We think outside for creative ways to solve problems elegantly and simplify.

PEOPLE

We believe in creating an environment where people are excited to show up and do their best work.

COMMITMENT TO SAFETY

Cupertino Electric places strong emphasis on planning for safety. We strive to conduct our daily operations with the **utmost regard for the safety** of our employees, the public and the environment. It is our goal to complete all projects incident and injury-free. We are a three-time AGC Safety Award winner and former PG&E Safety Supplier of the Year recipient.

INDUSTRY LEADERSHIP

Cupertino Electric is consistently ranked a top electrical contractor in the nation and has received industry recognition for excellent design and complex project execution. Our strong management team brings a mix of tenure with the company and **proven management expertise** from other public companies. The company's financial strength with suppliers, increased bonding capacity, depth of expertise and proven methods routinely produce **high-quality results** for customers.

"Our values and culture describe how we compete in the market, and the environment we want to create for employees. Staying true to our values for more than 65 years has been the foundation of our financial success and stability."

Bill Slakey, Chief Financial Officer

WEBSITE: CEI.COM PHONE: (877) 747-4CEI







MEMBERSHIPS

Cupertino Electric is a member of the National Electrical Contractors Association (NECA), Edison Electrical Institute (EEI), Western Energy Institute (WEI), and The Western Regional Minority Supplier Development Council (WRMSDC). CEI is signatory to a variety of International Brotherhood of Electrical Workers (IBEW) union Locals throughout the state and country.

DESIGN/BUILD EXPERTISE

With more than 60 engineering-focused employees offering extensive design/build project experience, our in-house resources rival those of a standalone engineering firm. Our engineering team also focuses on environmentally-progressive practices. We employ more than 28 U.S. Green Building Council LEED® Accredited professionals. Our integrated approach results in tighter construction schedules, proactive material acquisition and lower cost options.

ENGINEERING, DESIGN, CONSTRUCTION

CEI offers engineering and design services including electrical, civil, structural, traffic planning and BIM. Construction services include pre-construction, procurement, construction management, scheduling, civil/grading, commercial, UT integration, ADA compliance, pre-fabrication, commissioning and O&M.CEI offers expert experience in permitting acquisition, with dedicated employees who focus solely on working with AHJs and attaining permits for our projects.

INCOROPORATION

While the company was founded in 1954, CEI was incorporated in California on 04/21/1958 and re-ncorporated in Delaware on 05/31/2000 (to present).

REGULATED UTILITY EXPERIENCE

CEI has deep experience working with Pacific Gas & Electric (PG&E), Southern California Edison, NV Energy, Inc., SEMPRA and other Investor Owned Utilities (IOUs) on both renewable and infrastructure work.

ELECTRIC VEHICLE INFRASTRUCTURE TRAINING

CEI is an Electric Vehicle Infrastructure Training (EVITP) contractor with multiple certified electricians.

CEI SERVICES

Engineering and Design

- Electrical
- Civil
- Structural
- Traffic Planning
- BIM

Construction

- Pre-Construction
- Procurement
- Construction
- Management
- Scheduling
- Civil/Grading
- Commercial
- UT Integration
- ADA Compliance
- Prefabrication
- Commissioning
- O & M

PG&E EV PROGRAMS:

EV CHARGER NETWORK, EV FLEET, AND DIRECT CURRENT FAST CHARGING PROGRAMS

As the largest installer of EV chargers for PG&E, CEI to date has completed over 200 projects and over 4,500 charging spaces for the Investor Owed Utility (IOU). These programs varied slightly from one to the next. Over the past 3 years we have worked PG&E and the property owners to further meet California goals for increased Zero Emission Vehicle (ZEV's) and infrastructure expansion. CEI has been involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and closeout.

LOGISTICAL PLANNING ACTIVE LOGISTICS FACILITIES

CEI has experience conducting various construction projects. As a part of the planning process; CEI will meet with the customers project team, to help understand the day-to-day operations and identify strategies for how CEI can least impact the flow of the daily activities at the site. CEI will then develop a thorough implementation plan, identifying the key strategy to keep the site safe, and least impacted during construction.

EXPERIENCE

ALEXANDRIA REAL ESTATE
80+ ports

CEI completed four challenging projects for Alexandria Real Estate. Many of their properties are biotech or pharmaceutical labs, which could not accommodate sustained outages. CEI worked with each project team to devise a suitable outage plan so critical components were online while completing the work. At some locations, outage windows were limited to one hour. CEI accommodated the owner's request to meet these one-hour windows. The last property CEI completed was built on a landfill, where we performed additional soil testing and gas monitoring to ensure safety for CEI crews, subcontractors and our client.

THE BRIDGEPORT COMPANY -
470+ ports

CEI was the EPC for three residential locations (townhouses) in Oakland, CA. The construction duration was 3 months and located in active parking garages. These projects started during the first wave of 2020 "shelter in place" and was completed in time.

CAMPBELL UNIFIED SCHOOL DISTRICT
- 220+ ports

In 2020 CEI completed construction on 224 EV ports for the CUSHD across six sites including the school district office. Ports at each site ranged from 20 to 50 with most chargers installed under solar canopies. Utilizing a concurrent construction approach CEI was able to streamline the construction process which lowered costs and shortened the overall project schedule.

CLOVIS UNIFIED SCHOOL DISTRICT
PV Capabilities

Designed and constructed by CEI and managed by energy advisory firm TerraVerde Renewable Partners (TVRP), the Clovis USD solar system spans 21 sites and was the largest school solar project in Calif.'s Central Valley at the time of construction. Built in four phases, the 5.86 MW system is anticipated to save the district $2.4 million annually, generating 8.4 million HWh per year. The project features DSA-pre-check canopies, 5,099.1 kWAC/5,849.60 kWDC, 19,179 Canadian Solar modules, Solectria, and Fronius inverters.

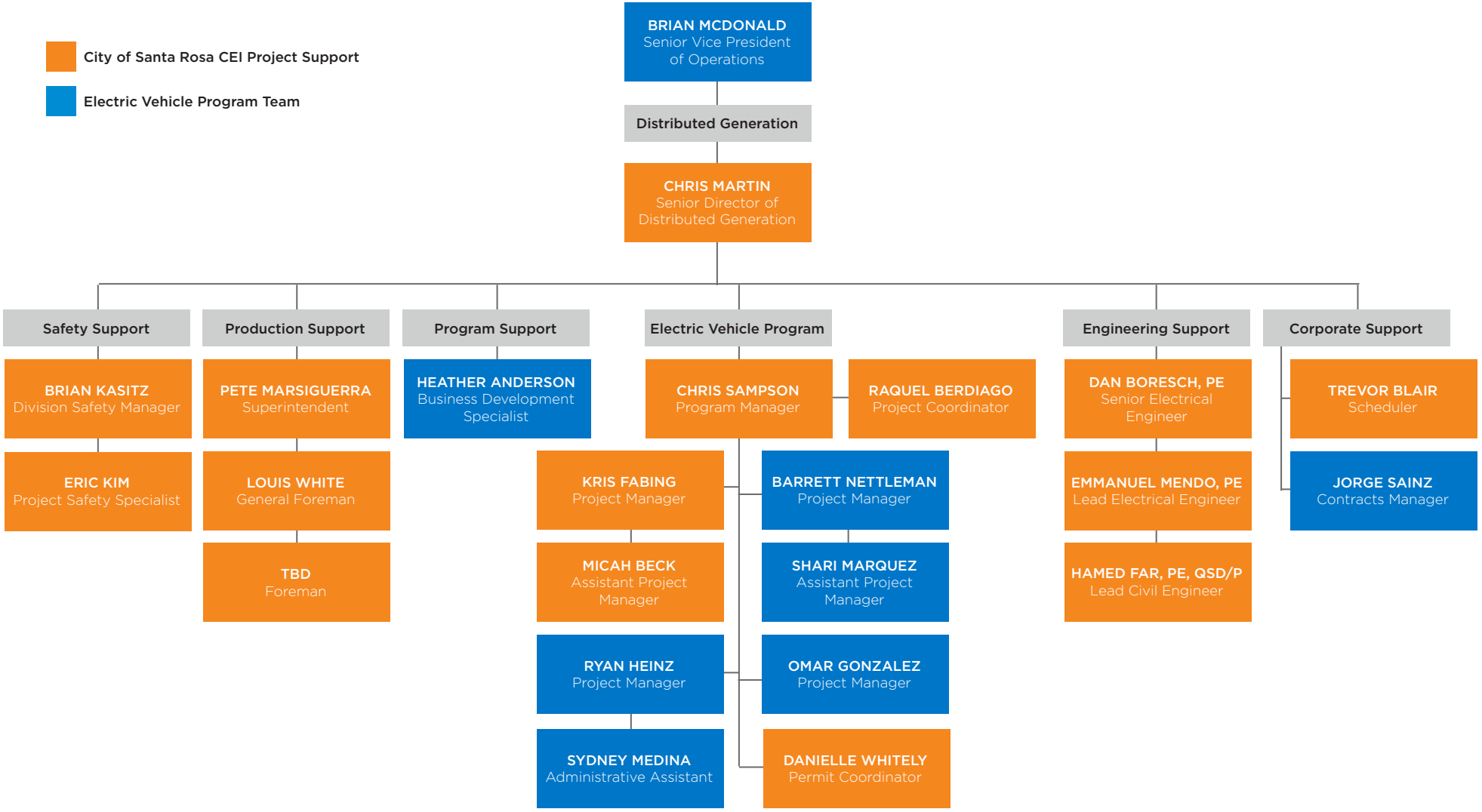
FREMONT UNIFIED SCHOOL DISTRICT
40 ports

CEI was the prime EPC contractor through the IOU for all utility upgrades and make ready for the 40 charger installations. The charger for this project are being installed in phases over the next 5 years. CEI performed all engineering, procurement, and construction in house, with the help of a civil sub-contractor to perform the trenching.

SAMSUNG
50+ ports

The Samsung parking garage required a multi-level charger installation to occur. During this project, CEI worked within an active parking structure to install more than 50 L2 EV charging ports. To minimize impacts to the customer, CEI install a concrete curb to hide all conduit installations and give a visually appealing presentation to the project.

PROJECT ORGANIZATIONAL CHART



PROJECT SUPPORT PERSONNEL

BRIAN MCDONALD
SR. VP OF OPERATIONS

Corporate sponsor and responsible for corporate relationship.

CHRIS MARTIN
SR. DIRECTOR OF DISTRIBUTED GENERATION

Oversees all aspects to ensure the city is satisfied with project delivery and execution.

CHRIS SAMPSON
EV PROGRAM MANAGER

Account Representative and EV Program Manager, manages day-to-day operations and oversees the project management team to ensure on-time, on-budget and quality execution.

KRIS FABING
PROJECT MANAGER

Lead PM for the city's EV Bus Electrification Project, will ensure projects are meeting the schedule, budget and quality expectations.

MICAH BAEK
ASSISTANT PROJECT MANAGER

Will support PM to ensure projects are meeting expectations in relation to schedule, budget and quality expectations.

RAQUEL BERDIAGO
PROJECT COORDINATOR

Will manage administration functions and submittals due to the city.

DANIELLE WHITLEY
PERMIT COORDINATOR

Will support on all permitting needs.

TREVOR BLAIR
SCHEDULER

Creates and maintains accuracy of the project's schedule.

PETE MARSIGUERRA
SR. SUPERINTENDENT

Oversees all safety and quality of project execution.

LOUIS WHITE
GENERAL FOREMAN

On-site safety and quality review for foreman.

DANIEL BORESCH
SENIOR ELECTRICAL ENGINEER

Oversees the electrical and civil engineering for electric vehicle infrastructure installations.

EMMANUEL MENDO
LEAD ELECTRICAL ENGINEER

Will be the engineer leading the electrical designs for the city.

HAMED FAR
LEAD CIVIL ENGINEER

Will be the engineer leading the civil designs for the city.

BRIAN KATSIZ
DIVISION SAFETY MANAGER

Oversees all safety related activities and implementation of safety protocols for Energy Division.

ERIC KIM
PROJECT SAFETY SPECIALIST

On-site safety for all construction activities and execution.

Additional support can be added as needed by the City of Santa Rosa.

BRIAN MCDONALD

Senior Vice President of Operations, Energy

EDUCATION

Saint Mary's College of California,
MBA in Finance

California State University, Sacramento,
B.S. in Mechanical Engineering

TRAINING & CERTIFICATIONS

- **Registered Professional Mechanical Engineer in California (#M-29418)**
- **Lean Six Sigma Green Belt**

EXPERIENCE

- **Industry** ——— 33 YEARS
- **At CEI** ——— 1 YEARS

PROFILE

As a senior vice president for Cupertino Electric, Inc. (CEI), Brian McDonald oversees operations for the Energy Group, which includes the Renewables Division and the Distributed Generation Division. The Renewables Division at CEI provides full, turn-key engineering, procurement and construction (EPC) services on renewable projects across the U.S., including solar, wind, and DC coupled battery energy storage systems (BESS). The Distributed Generation team delivers a full spectrum of electrical construction and engineering services, including AC coupled BESS, C&I solar, Electric Vehicle (EV) charging stations, microgrids, gas pipeline replacement programs, transmission, distribution, and high voltage substation projects.

McDonald is a dedicated leader who has spent his career focused on the development, construction and operation of large-scale infrastructure projects in the energy sector. He has delivered global infrastructure projects for renewables, energy storage, power generation, electric transmission, natural gas, and petro-chemical operations customers totaling more than $10 billion.

Prior to joining CEI, McDonald served as president for Horizon West Transmission (HWT) (a subsidiary of NextEra Energy, Inc.), where he formed the HWT Transmission Utility regulated by the CPUC and drove strategic growth of FERC 1000 competitive transmission asset development, construction and P&L management in the Western Region.

McDonald spent 11 years at Pacific Gas & Electric (PG&E) in senior management roles, including Renewable Resource Development, Gas Operations and Electric Transmission Operations, directing large-scale programs and major capital projects. He led the 500 MW Solar Photovoltaic (PV) Program, the first utility-owned renewable projects in the U.S. He also led the execution of the $2 billion Pipeline Safety Enhancement Program (PSEP), and $3 billion Electric Transmission Major Projects and Programs team, Electric Transmission Contract Management team, the Mobile Home Park Program, Battery Storage Development, Compressed Air Energy Storage (CAES) and Wave Connect Programs.

Before PG&E, McDonald worked at Calpine Corporation as a development and emerging technologies director, where he was responsible for more than $2 billion in power generation projects.

He is a registered professional mechanical engineer (P.E.) in California, holds a bachelor's degree in mechanical engineering from Sacramento State University and an MBA from Saint Mary's College. He is a Lean Six Sigma Green Belt.

CHRIS MARTIN

Senior Director of Distributed Generation

PROFILE

As the senior director of distributed generation for Cupertino Electric, Inc. (CEI)'s Energy Group, Chris Martin is responsible for all aspects of the projects he manages, including estimating, procurement, construction, work methods, safety and maintaining relationships with business partners. In this critical role working on several large-scale, high-profile projects, Chris oversees project controls and manages operations team member's safety, project completion on time and in budget, and customer satisfaction.

Chris has continual success in engineering management, project development, project management, scheduling, tracking material and equipment, coordinating with field personnel, responding to proposals, managing subcontractors, implementing cost controls, ensuring safety, and maintaining relationships with general contractors and owners. His extensive industry experience has resulted in proven purchasing, estimating, administration, engineering and management skills.

EXPERIENCE

- **Industry** ——— 10 YEARS
- **At CEI** ——— 10 YEARS

EDUCATION

San Jose State University,
B.S. in Electrical Engineering

SELECT RELEVANT EXPERIENCE

PG&E EV CHARGER NETWORK PROGRAM, EV FLEET PROGRAM, DIRECT CURRENT FAST CHARGING PROGRAM **Northern California**

This program involved installation of new electrical vehicle (EV) chargers for the investor owned utility (IOU), working with PG&E and the property owners. CEI was involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and closeout. As of January 2021, CEI has installed EV supply power to more than 4,500 charging spaces for over 200 projects in PG&E's various programs.

ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

Outside of PG&E programs, CEI supported various clients (private developers, municipalities, and EV software and/or manufacturing companies). These programs include L2 and DCFC chargers and range in scope from full EPC to installation and commissioning.

PG&E SURGE ARRESTER REPLACEMENT PROGRAM **Throughout Calif.**

This CPUC-mandated Surge Arrester Replacement program is to replace surge arresters at more than 100,000 locations. The scope of work includes replacing the existing surge arrester, separating the surge arrester ground from the pole mounted transformer ground and installing a new ground system for the surge arrester. Currently 21 line crews from Cupertino are working between the North Valley, Sierra, Fresno, and Yosemite divisions of PG&E's service territory. Cupertino Electric is also coordinating field surveys, USA locates and scheduling clearances for all locations. This (ahead-of-schedule) program is targeting completion in early 2022.

PG&E MOBILE HOME PARK UTILITY UPGRADES **Througout Calif.**

CEI is responsible for over 60 mobile home park utility upgrade projects under a program mandated by the California Public Utilities Commission (CPUC). The CPUC is upgrading the electrical and gas systems of hundreds of mobile home parks throughout the state to make them individually metered and safe. Pacific Gas and Electric (PG&E) has contracted with CEI to replace old gas lines, gas meters, electrical feeders and install individual electric meters on individual residences in these parks across the state.

DUPONT FABROS SC1 PHASE II **Santa Clara, CA**

Phase II of the Dupont Fabros SC1 project involved installation of eight (8) 2.25 megawatt (MW) generators and eight (8) 1,650 kilowatt (kW) rotary-powered UPS at the 360,000 square foot, Tier 4 data center facility. This LEED Gold-anticipated project is valued at $48 million.

CHRIS SAMPSON

Program Manager

PROFILE

As a program manager for Cupertino Electric, Inc. (CEI)'s Energy Group (which comprises renewables and utility work), Christopher Sampson drives and influences projects using technical knowledge to deliver projects on time, install high-quality work and meet customer needs. In his role, he utilizes and integrates estimating software and knowledge to build successful projects. Christopher helps to facilitate all the needs between field electricians and project managers in order deliver successful energy infrastructure projects.

TRAINING & CERTIFICATIONS

- **First Aid/CPR Certified**
- **Underground Training**
- **Professional Engineer (PE)**

EXPERIENCE

- **Industry** ——— 8 YEARS
- **At CEI** ——— 4 YEARS

EDUCATION

Santa Clara University,
M.S. in Structural Engineering, B.S. in Civil Enginerring

SELECT RELEVANT EXPERIENCE

PG&E EV CHARGER NETWORK PROGRAM, EV FLEET PROGRAM, DIRECT CURRENT FAST CHARGING PROGRAM **Northern California**

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ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

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PG&E MOBILE HOME PARK UTILITY UPGRADES **Throughout Calif.**

CEI was responsible for over 60 mobile home park utility upgrade projects under a program mandated by the California Public Utilities Commission (CPUC). The CPUC is upgrading the electrical and gas systems of hundreds of mobile home parks throughout the state to make them individually metered and safe. Pacific Gas and Electric (PG&E) has contracted with CEI to replace old gas lines, gas meters, electrical feeders and install individual electric meters on individual residences in these parks across the state.

HARRY TRACY WATER TREATMENT PLANT UPGRADE **San Bruno, CA**

This project was for the installation of an 11 million gallon tank and siesmic upgrade to all structures and pipelines. Scope included the installation of new pipeline ranging from 0.5" D to 96" D to carry treated water, raw water, sewer, chemicals and storm drains. CEI constructed new clarifiers, filter bays, chemical storage tanks, and monitoring structures for all treated water. Also installed were all new power systems excavating more than 20,000 feet of conduit and (3) new CAT generators.

KRIS FABING

Project Manager

PROFILE

As a project manager for Cupertino Electric's Utility Division, Kris Fabing brings nearly 20 years of utility and electrical construciton project experience. Kris' primary objectives include leading programs with major Investor owned utilities, sourcing and qualifying new opportunities in the market, building and maintaining effective relationships with key customers, partners, vendors, subcontractors and craft persons, and managing projects to meet financial goals and customer objectives. He is also responsible for managing contracts, document control, scheduling, on-site quality control issues, material and equipment tracking, on-site inspections and verifications for material, equipment and installations, coordinating with field personnel, implementing cost controls, and cost estimating.

Kris' previous experience working as a foreman, estimator, supervisor, superintendent and project manager contribute to his ability to successfully manage projects. His career experience includes utility, electrical, solar photovoltaic and utility-scale energy storage projects.

TRAINING & CERTIFICATIONS

- **First Aid/CPR Certified**
- **Electrical Project Supervisor**
- **Operator Engineer (Local 3) Heavy Equipment**
- **Advanced Electrical Estimator**
- **American Traffic Safety Services Assn. Certified**
- **(U.S. Dept. of Transportation Federal Highway Admin.)**

EXPERIENCE

- **Industry** ——— 18 YEARS
- **At CEI** ——— 6 YEARS

EDUCATION

Modesto Junior College,
A.A. in Business Administration, A.S. in Business Operations Management

SELECT RELEVANT EXPERIENCE

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ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

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SFO TERMINAL 3 BOARDING AREA E SOLAR **San Francisco, CA**

This was a Design/Build 73.2 kW DC non-penetrating roof-mount solar PV system installed on the roof of San Francisco International Airport's Terminal 3, Boarding Area "E". Upon completion, the project was LEED® Gold Certified.

TULARE CITY SCHOOLS PV AND ENERGY STORAGE **Tulare, CA**

This Design/Build project consisted of an 18-site, 2.23 megawatt (MW) solar and associated 270 kilowatt (kW) energy storage project for Tulare City Schools. CEI partnered with technology vendor Green Charge Networks on the energy storage portion of the project, which designed the energy storage system, wrote the algorithm driving the system's intelligence and will monitor energy production.

PROMINENT BAY AREA TECHNOLOGY COMPANY **Mountain View, CA**

This technology company installation involved four separate energy storage technologies/ systems installed in four different ares on their sprawling corporate campus. Three of the energy storage systems in the installation package use lithium ion-based batteries, and one systems uses iron nickel technology. CEI performed due diligence on the customer's many vendors from an EPC perspective to insure the combination of technologies and solutions selected made sense. This project represents an initial phase of a planned multi-phase approach to energy storage with this particular customer. The customer is piloting a unique approach to compare technologies by installing and analyzing different systems and using their own proprietary software before moving forward with the best solution more broadly.

MICAH BAEK

Assistant Project Manager

PROFILE

As an assistant project manager for Cupertino Electric, Inc. (CEI), Micah Baek provides support for all aspects of the complex projects the project manager manages. Micah provides direction and support to project engineers and project coordinators, ensures clear definition of assigned duties and the necessary tools and information to do the job. He coordinates with the jobsite staff and ensures all electricians in the field have materials they need to construct a quality project for the customer. Micah is adept at building and maintaining quality relationships with general contractors and owners.

TRAINING & CERTIFICATIONS

- **OSHA-10 Certified**
- **First Aid/CPR Certified**

EXPERIENCE

- **Industry** ——— 6 YEARS
- **At CEI** ——— 2 YEARS

EDUCATION

University of California, Berkeley
M.S. in Project Management of Civil Engineering

North Dakota State University
B.S. in Construction Management

SELECT RELEVANT EXPERIENCE

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ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

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TESLA SUBSTATION **Tracy, CA**

This project included a 230KV bus differential replacement and circuit breaker replacement.

THE PROLIFIC OVEN **Sunnyvale, CA**

This project was the construction of a mixed-use development with a restaurant on the first floor and tenant improvement in a new vacant commercial space.

RAQUEL BERDIAGO

Project Coordinator

PROFILE

As a project coordinator for Cupertino Electric, Inc. (CEI), Raquel Berdiago provides project coordination and administrative support for Project Manager and team. Her responsibilities include assisting with monthly billing, researching and resolving billing issues, material coordination, estimating, and attendance at P.M. reviews. Raquel's experience runs across a broad spectrum of utility work including electric vehicle charger installation programs.

TRAINING & CERTIFICATIONS

- **First Aid/CPR Certified**

EXPERIENCE

- **Industry** ——— 2 YEARS
- **At CEI** ——— 2 YEARS

EDUCATION

Los Medanos College
Courses in Business Administration

Heald College,
Courses in Business Administration

SELECT RELEVANT EXPERIENCE

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DANIELLE WHITLEY

Permit Coordinator

PROFILE

As permit coordinator for Cupertino Electric, Inc. (CEI), Danielle Whitley manages permitting standards for customers, AHJ's, public utilities, government stakeholders and CEI's project management team during the lifetime of various multi-year programs in the Energy Group. Prior to joining CEI, Danielle worked in event coordination. She planned and executed major events for several non-profit organizations, including annual golf tournaments and out-of-state symposiums.

TRAINING & CERTIFICATIONS

- **OSHA-30 Certified**
- **First Aid/CPR Certified**

EXPERIENCE

- **Industry** ——— 5 YEARS
- **At CEI** ——— 5 YEARS

EDUCATION

California State University, Sacramento
B.S. in Communications, Emphasis in Interpersonal Communications

SELECT RELEVANT EXPERIENCE

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CEI is responsible for over 60 mobile home park utility upgrade projects under a program mandated by the California Public Utilities Commission (CPUC). The CPUC is upgrading the electrical and gas systems of hundreds of mobile home parks throughout the state to make them individually metered and safe. Pacific Gas and Electric (PG&E) has contracted with CEI to replace old gas lines, gas meters, electrical feeders and install individual electric meters on individual residences in these parks across the state.

PG&E SURGE ARRESTER PROGRAM **Throughout Calif.**

Cupertino Electric began work with PG&E on a CPUC mandated Surge Arrester Replacement program throughout California to replace surge arresters at over 90,000 locations. The scope of work includes replacing the existing surge arrester, separating the surge arrester ground from the pole mounted transformer ground and installing a new ground system for the surge arrester. Currently 21 line crews from Cupertino are working between the North Valley, Sierra, Fresno, and Yosemite divisions of PG&E's service territory. Cupertino Electric is also coordinating field surveys, USA locates and scheduling clearances for all locations. This program is currently running ahead of schedule and is targeting completion in early 2022.

TREVOR BLAIR

Scheduler

PROFILE

As a scheduler for Cupertino Electric, Inc. (CEI), Trevor Blair is responsible for organizing, implementing and maintaining scheduling management systems for identified projects using Prima Vera software. He provides and presents project performance analysis based on labor and cost, and provides tools for forecasting project performance.

TRAINING & CERTIFICATIONS

- **First Aid/CPR Certified**

EXPERIENCE

- **Industry** ——— 4 YEARS
- **At CEI** ——— 3 YEARS

EDUCATION

California State University, Stanislaus,
B.S. in Business Administration

SELECT RELEVANT EXPERIENCE

PG&E EV CHARGER NETWORK PROGRAM, EV FLEET PROGRAM, DIRECT CURRENT FAST CHARGING PROGRAM **Northern California**

This program involved installation of new electrical vehicle (EV) chargers for the investor owned utility (IOU), working with PG&E and the property owners. CEI was involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and closeout. As of January 2021, CEI has installed EV supply power to more than 4,500 charging spaces for over 200 projects in PG&E's various programs.

ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

Outside of PG&E programs, CEI supported various clients (private developers, municipalities, and EV software and/or manufacturing companies). These programs include L2 and DCFC chargers and range in scope from full EPC to installation and commissioning.

PG&E MOBILE HOME PARK UTILITY UPGRADES **Throughout Calif.**

CEI is responsible for over 60 mobile home park utility upgrade projects under a program mandated by the California Public Utilities Commission (CPUC). The CPUC is upgrading the electrical and gas systems of hundreds of mobile home parks throughout the state to make them individually metered and safe. Pacific Gas and Electric (PG&E) has contracted with CEI to replace old gas lines, gas meters, electrical feeders and install individual electric meters on individual residences in these parks across the state.

PG&E SURGE ARRESTER PROGRAM **Throughout Calif.**

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PETE MARSIGUERRA

Superintendent

PROFILE

As a superintendent for Cupertino Electric, Inc.'s (CEI), Pete Marsiguerra brings more than thirty years worth of experience to his field management role. While at CEI, Pete has successfully completed a series of large-scale design/build photovoltaic, data center, medical office building, and energy infrastructure projects. In addition, he frequently conducts training sessions on OSHPD and elevator equipment room requirements, photovoltaic installation and leadership.

CREDENTIALS & CERTIFICATIONS

- **NECA Calif. State Certified**
- **OSHA-30 Certified**
- **OSHA-10 Certified**
- **Forklift Certified**
- **California Underground Installation Certified**
- **First Aid/CPR Certified**
- **Transportation Worker Identification Credentialed**
- **Lock-out/Tag-out Procedures Certified Trainer**
- **C-1o License**

EXPERIENCE

- **Industry** ——— 30 YEARS
- **At CEI** ——— 23 YEARS

EDUCATION & TRAINING

- **NJATC Graduate**
- **IBEW Journeyman Electrician**
- **NEC and CEC Coursework**
- **Electric Vehicle Infrastructure Training Program (EVITP)**

SELECT RELEVANT EXPERIENCE

PG&E EV CHARGER NETWORK PROGRAM, EV FLEET PROGRAM, DIRECT CURRENT FAST CHARGING PROGRAM **Northern California**

This program involved installation of new electrical vehicle (EV) chargers for the investor owned utility (IOU), working with PG&E and the property owners. CEI was involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and closeout. As of January 2021, CEI has installed EV supply power to more than 4,500 charging spaces for over 200 projects in PG&E's various programs.

ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

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PG&E MOBILE HOME PARK UTILITY UPGRADES **Throughout Calif.**

CEI is responsible for over 60 mobile home park utility upgrade projects under a program mandated by the California Public Utilities Commission (CPUC). The CPUC is upgrading the electrical and gas systems of hundreds of mobile home parks throughout the state to make them individually metered and safe. Pacific Gas and Electric (PG&E) has contracted with CEI to replace old gas lines, gas meters, electrical feeders and install individual electric meters on individual residences in these parks across the state.

SFO TERMINAL 3 BOARDING AREA E SOLAR PV **San Francisco, CA**

This was a design/build 73.2 kW DC non-penetrating roof-mount solar PV system installed on the roof of San Francisco International Airport's Terminal 3, Boarding Area "E". Upon completion, the project was LEED® Gold Certified.

PG&E SUBSTATION SECURITY **Throughout Calif.**

CEI was contacted by security company G4S to install conduit and cable systems on newly-erected towers lining the perimeter of PG&E's substations. Working closely with both G4S and PG&E, CEI is installing rigid conduit, junction boxes, cabling, LED lighting fixtures, security strobes and horns, as well as providing commissioning support. G4S will utilize the CEI-installed conduit and boxes to supply their on-site security cameras and monitoring equipment. CEI has already completed projects in Vacaville, Los Banos, Buttonwillow, Oroville, Tracy, San Mateo. We will perform this work in Morro Bay, Moraga, Shasta, Daly City, Kern, Bakersfield, Moss Landing, Newark, Fresno, Huron.

LOUIS WHITE

General Foreman

PROFILE

As a general foreman for Cupertino Electric, Inc. (CEI), Louis White coordinates and facilitates jobsite progress according to project milestones and Cupertino Electric's safety and procedural standards. As the on-site expert, Louis is responsible for all jobsite logistics to ensure adequate labor tracking and efficient installations are consistently achieved.

TRAINING & CERTIFICATIONS

- **IBEW Journeyman Electrician**
- **Electric Vehicle Infrastructure Training Program (EVITP)**

EXPERIENCE

- **Industry** ——— 13 YEARS
- **At CEI** ——— 13 YEARS

EDUCATION

NAJATC Graduate
NEC & CEC Coursework

SELECT RELEVANT EXPERIENCE

PG&E EV CHARGER NETWORK PROGRAM, EV FLEET PROGRAM, DIRECT CURRENT FAST CHARGING PROGRAM **Northern California**

This program involved installation of new electrical vehicle (EV) chargers for the investor owned utility (IOU), working with PG&E and the property owners. CEI was involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and closeout. As of January 2021, CEI has installed EV supply power to more than 4,500 charging spaces for over 200 projects in PG&E's various programs.

ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

Outside of PG&E programs, CEI supported various clients (private developers, municipalities, and EV software and/or manufacturing companies). These programs include L2 and DCFC chargers and range in scope from full EPC to installation and commissioning.

PG&E MOBILE HOME PARK UTILITY UPGRADES **Throughout Calif.**

CEI is responsible for over 60 mobile home park utility upgrade projects under a program mandated by the California Public Utilities Commission (CPUC) to upgrade the electrical and gas systems to make them individually metered and safe. The project is Design/Build with 5,000 mobile home spaces across Northern California. Pacific Gas and Electric (PG&E) has contracted with CEI to replace old gas lines, gas meters, electrical feeders and install individual electric meters on individual residences in these parks across the state.

THE LODI ENERGY CENTER (LEC) **Lodi, CA**

The LEC is a 1x1 combined-cycle, nominal 296 Megawatt (MW) Siemens "Flex Plant 30" power generation facility consisting of a natural gas-fired turbine-generator, a single condensing steam turbine, a seven-cell cooling tower, and associated balance-of-plant equipment. The facility is located on a 4.4-acre parcel located adjacent to the City of Lodi's White Slough Water Pollution Control Facility and the existing 49 MW Northern California Power Agency Combustion Turbine Project #2 (STIG plant). In addition, Cupertino Electric was responsible for the complete design of the "house" electrical system for the steam turbine and water treatment buildings.

BRIAN KASITZ

Division Safety Manager

PROFILE

As a division safety manager at Cupertino Electric, Inc. (CEI), Brian Kasitz is responsible for the hands-on implementation and monitoring of the of Corporate Injury and Incident-Free Culture program elements at the major project level; including indoctrinating, coaching and mentoring workers at all levels from apprentices to superintendents in Injury and Incident–Free Culture. Brian works with all levels of filed supervision, foremen, general foremen, site superintendent, area superintendents, and project managers to continually hone their pre-task planning skills as it relates to the effective integration of safety into their work planning practices. Additionally, Brian provides, equipment-specific and operation-specific safety training, first aid and emergency response services on his major projects as the need arises.

TRAINING & CERTIFICATIONS

- **Safety Management Specialist (SMS) -BCSP**
- **Construction Health and Safety Technician (CHST) - BCSP**
- **First Aid, CPR/AED, Blood Borne Pathogens**
- **Excavation/Confined Spaces/Rigging/Electrical/ Forklift/Scaffolds**
- **ATSSA Certified Supervisor and Technician**

EXPERIENCE

- **Industry** ——— 22 YEARS
- **At CEI** ——— 2 YEARS

EDUCATION

Eastern Kentucky University,
B.A. in English

SELECT RELEVANT EXPERIENCE

TWC NEW COLUMBIA, WESTSIDE AND BELRIDGE **Throughout Calif.**

The confidential company operates numerous farms throughout California, and CEI is worked with NextEra Energy to install three 5 MW design/build utility-interactive, ground-mounted PV system installations—one in Firebaugh, one in Kern County and one in McKittrick, CA. CEI served as the engineering, procurement, construction (EPC) provider across both project locations.

PRINEVILLE/MILLICAN SOLAR **Prineville, OR**

The project will provide power for a Facebook data center located in Prineville, Oregon. Between the two projects, CEI installed 296,865 bifacial solar panels that will provide 100 MW-AC of power. The project includes installing and testing 28 inverters and padmount transformers, which will be connected to the owner's substation. Scope included installing the security system, the supervisory control and data acquisition (SCADA) system, drainage features, perimeter fence and access roads, as well as grading, demo and landscaping.

BLYTHE III & BLYTHE IV **Blythe, CA**

The third and fourth phases of the larger Blythe project, these two installations are design/ build solar arrays of 125 MWac PV each. The turnkey project utilizes First Solar 6 panels, Power Electronics inverters and GameChange trackers.

SAN FRANCISCO INTERNATIONAL AIRPORT (SFO) BOARDING AREA B (BAB) SOLAR PV **San Francisco, CA**

Cupertino Electric's project at SFO's new Terminal 1includes new 12KV & 480V electrical power, lighting, lighting control and fire alarm, and 1.2MW rooftop solar photovoltaic project--all design/ build.

ANTELOPE DEL SUR RANCH (ADSR 3) **Lancaster, CA**

The project was installation of a new 20MWac PV system in the Antelope Valley to support sPower (owner). A 25MVA transformer bay was added with one feeder breaker and one dedicated reactive compensation breaker. Work included substation design, equipment specification and procurement, and installation of equipment along with control systems integration with existing substation protection scheme.

ERIC KIM

Utility Safety Specialist

PROFILE

As a safety specialist in Cupertino Electric, Inc. (CEI)'s Utility Division, Eric Kim is responsible for the execution of the Corporate Injury and Incident-Free Culture (IIFC) program elements at the project level. Eric works closely with CEI's project teams, subcontractors and customers on overall project safety plans, strategic safety meetings and communications, and safety observation reports and data. Eric works with all levels of field supervision, foremen, general foremen, site superintendent, area superintendents, and project management to ensure effective safety integration into their work planning practices.. As the safety specialist for the Utility Division over the last few years, Eric has worked closely with PG&E on project safety across transmission, distribution and substation work, as well as several fire and storm calls to mitigate recent natural disaster occurrences in California.

TRAINING & CERTIFICATIONS

- **CAL OSHA Tunnel Gas Safety**
- **OSHA-10 and -30 Certified**
- **HAZWOPER**
- **Advanced training in Fall Protection**
- **Confined Space entry rescue**
- **Terrorist Threat Training**
- **Disaster Recovery Training**
- **CAL POST**
- **Crane Safety Institute**
- **NRMCA**
- **Fork Lift, Aerial Lift, Bucket Truck**
- **Smith System Defensive Driving**
- **NFPA 70E**
- **D.O.T**
- **FMCSA**
- **First Aid/CPR**
- **Underground Training**

EXPERIENCE

- **Industry** ——— 20 YEARS
- **At CEI** ——— 4 YEARS

EDUCATION

San Jose State University,
B.S. in Kinesiology

SELECT RELEVANT EXPERIENCE

PG&E EV CHARGER NETWORK PROGRAM, EV FLEET PROGRAM, DIRECT CURRENT FAST CHARGING PROGRAM **Northern California**

This program involved installation of new electrical vehicle (EV) chargers for the investor owned utility (IOU), working with PG&E and the property owners. CEI was involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and closeout. As of January 2021, CEI has installed EV supply power to more than 4,500 charging spaces for over 200 projects in PG&E's various programs.

ELECTRIC VEHICLE SUPPLY EQUIPMENT EXPERIENCE **Northern California**

Outside of PG&E programs, CEI supported various clients (private developers, municipalities, and EV software and/or manufacturing companies). These programs include L2 and DCFC chargers and range in scope from full EPC to installation and commissioning.

PG&E MOBILE HOME PARK UTILITY UPGRADES **Throughout Calif.**

CEI is responsible for over 60 mobile home park utility upgrade projects under a program mandated by the California Public Utilities Commission (CPUC). The CPUC is upgrading the electrical and gas systems of hundreds of mobile home parks throughout the state to make them individually metered and safe. Pacific Gas and Electric (PG&E) has contracted with CEI to replace old gas lines, gas meters, electrical feeders and install individual electric meters on individual residences in these parks across the state.

SFO UNITED TERMINAL 3 **San Francisco, CA**

The San Francisco International Airport (SFO) United Terminal 3 is a design/build project focusing on electrical systems, WiFi and security. Tasks include a 12 kV installation, replacement of main 16,000A electrical load center and distribution boards, installation of 400 Hz aircraft shore power and traditional power to receptacles and other powered elements, installing a video enhanced, analytic technology people counter and wait-time system, revising WiFi design including BLE location services, and ensuring data integration with the rest of SFO. The CEI team was also tasked with baggage conveyor and control systems, integrating the security system, installing metal detectors, x-ray belts and state-of-the-art AIT x-ray viewing machines for TSA.

HAMED FAR

Lead Civil Engineer

PROFILE

As a lead civil engineer for Cupertino Electric, Inc. (CEI), Hamed Far brings more than 13 years' worth of civil and structural engineering industry experience to his role. Hamed is responsible for developing construction civil system design drawings, correspondence, field investigations, and modeling. He also provides analysis in accordance to project criteria, industry standards, and applicable codes and regulations. His status as a licensed Professional Engineer (P.E.) makes him skilled in standards for ethics and quality assurance practices.

TRAINING & CERTIFICATIONS

- **Calif. Professional Engineer (P.E.)**
- **Construction General Permit Qualified SWPPP Developer (QSD)Qualified SWPPP Practitioner (QSP)**

EXPERTISE

- **Grading, Drainage, Utility Design**
- **Equipment Foundation Design**
- **Seismic Anchorage & Bracing**
- **2D Flow Hydraulic Modeling**
- **PV Solar Single Axis Tracker Grading**
- **Pile Length Optimization**

SOFTWARE & SKILLS

- **Civil 3D**
- **ALLPILE**
- **ENERCALC**
- **HILTI PROFIS**
- **HEC-RAS**
- **HEC-HMS**
- **Q-GIS**

EXPERIENCE

- **Industry** ——— 13 YEARS
- **At CEI** ——— 1 YEARS

EDUCATION

San Jose State University,
M.S. in Civil Engineering

Azad University,
B.S. in Civil Engineering

SELECT RELEVANT EXPERIENCE

PRINEVILLE AND MILLICAN SOLAR **Prineville & Milican, OR**

Leed Engineer developing pile length plans and partial grading of the site to accomodate Nextracker grade criteria. The challenge on this project was the steep ground, the shallow top soil before getting into hard rock layer and to keep cut depth as shallow as possible while making the grades work for drainage and single axis tracker.

CIM ALMOND SUBSTATION & PV **Lemoore, CA**

Two switching stations and 1 substation to interconnect 250MW of photovoltaics to PG&E with a total build out capacity of 1150MW, 230kV – 35kV, 250MVA Substations. CEOR to develop constraints map, Geometric design of access road and existing jursdictional ditch crossing for both above and underground. The accesss road needed to accomodate 200-foot trucks. Vehicle Turn software was used to design the roads.

CORESITE SVP SUBSTATION **Santa Clara, CA**

CEOR for grading and drainage and structural design of a privately constructed 2-bay switchyard deeded back to the Silicon Valley Power (Utility) with an adjacent privately owned and operated 60kV – 12kV, 50MVA n+1 substation.

THE WONDERFUL COMPANY **Belridge, CA**

CEOR for overhead wood pole design of interconnect three 5MW PV consisting of riser, underarm switch, line recloser, and meter poles. O'Calc were used to check strength of poles and conductors. Deliverable included pole drawings and O'Calc calculations

TULARE SOLAR **Ducor, CA**

A 1,3068,000 square foot, single axis tracker solar system was installed on driven steel piles, with an access road, seven-foot-tall chain link fence and erosion control BMP measures. The 75 MW utility-scale PV solar facility required the removal of half-a-million cubic yards of dirt to accommodate the tracker system tolerances.

WESTMOORE SOLAR **Sehrman, TX**

This 2,178,000 square foot, 20 MW utility-scale, single axis tracker solar system was installed on driven steel piles, with an access road, seven-foot-tall chain link fence and erosion control BMP measures.

EMMANUEL MENDO

Electrical Engineer

PROFILE

As an electrical engineer for Cupertino Electric, Inc. (CEI), Emmanuel Mendo brings more than 22 years' worth of electrical industry experience to his role. Emmanuel is responsible for developing construction electrical system design drawings, electrical correspondence, field investigations, and power system modeling. He also provides analysis in accordance to project criteria, company and industry standards, and applicable electrical codes and regulations.

TRAINING & CERTIFICATIONS

- **LEED Accredited Professional (LEED AP)**
- **Professional Engineer (PE)**

EXPERTISE

- **Title 24 Compliance**
- **LEED Compliance**
- **Arc Flash, Short Circuit, Coordination**
- **Lighting Control systems**
- **Lighting Study**

SOFTWARE & SKILLS

- **AutoDesk MEP**
- **Visual Pro Software**
- **ETAP**
- **AGI 3.2 Software**
- **O-Calc**
- **Gloval Information System (GIS)**

EXPERIENCE

- **Industry** ——— 22 YEARS
- **At CEI** ——— 8 YEARS

EDUCATION

Technological Institute of the Philippines, Manila,
B.S. in Electrical Engineering

SELECT RELEVANT EXPERIENCE

PUBLIC UTILITY AND DISTRIBUTION

PG&E MOBILE HOME PARK UTILITY UPGRADES — 488 Mobile Homes

Working as an EEOR for pilot program available to qualifying mobile home parks by PG&E with oversight by CPUC to convert master meter parks to individual gas and electric meters at each mobile home space. Overseeing team of 6 Designers/Drafters to design-build hundreds mobile home parks encompassing 8,488 mobile home spaces as an extension of PG&E. Designs were compliant with the Green, Red, and Blue book standards, EDM, and EPM. Obtained distribution and circuit maps, short circuit duty, pole data, and assigned equipment operating numbers in DART, JET, and GIS. Interfaced with PG&E ADE team and navigated/developed a new design process for PG&E spun off from the traditional Applicant Design process. Utilized O-Calc to select pole class and heights and E-tap for pulling calculations

PG&E EV CHARGER NETWORK PROGRAM — 1,700 EV chargers

- Behind the meter (BTM) design-build of new electrical vehicle EV Level 1 chargers at more than 130 sites across the bay area. Working with PG&E and the property owners, CEI is involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and close out. Designs were compliant with the PG&E standards, CBC, CEC and other local code required. Coordinated information with BTM package and obtained permit with AHJ. Interfaced with PG&E ADE team for back check design process.
- To the meter (TTM). Designs were compliant with Green, Red, and Blue book standards, EDM, and EPM, and Overhead/Underground Construction Manuals. Obtained distribution and circuit maps, short circuit duty, pole data, order material and assigned equipment operating numbers in DART, JET, SAP, FFE and GIS. Utilized O-Calc to select pole class and heights.

PG&E FLEET ELECTRIC VEHICLE PROGRAM — 148 EV chargers

The installation new electrical vehicle FLEET Level 2 chargers at more than 14 sites across the bay area. Working with PG&E and the property owners, CEI is involved from the initial site application, through site eligibility, design walk and development, permitting and procurement, construction, commissioning and close out. Designs were compliant with Green, book standards, EDM, and EPM, and Overhead/Underground Construction Manuals. Obtained distribution and circuit maps, short circuit duty, pole data, order material and assigned equipment operating numbers in DART, JET, SAP, FFE and GIS. Utilized O-Calc to select pole class and heights.

WORK PLAN AND SCOPE OF SERVICES

1. DESCRIPTION OF PROJECT

The proposed EV Fleet Electrification Project consists of a full Engineering, Procurement, and Construction (EPC) services, as required by the City of Santa Rosa RFP. Cupertino Electric, Inc. (CEI) will utilize a team of in-house electrical, civil and structural engineers, overseen by a dedicated project manager. This project manager will manage the site from design inception, to final sign-off of the project, will be the single point of contact for the City and will drive all project deliverables to ensure City satisfaction.

This project will consist of a single, dedicated Pacific Gas & Electric (PG&E) service panel that has been preliminary sized at 1200Amps, at 480/277V, to be compliant with sections 9 & 10 of PG&E's most current Greenbook standards. The service panel will be placed at a point near the property line at the far East end of charging stalls, nearest the point of the PG&E proposed 750kVA pad-mounted transformer. The placement is depicted in the attached preliminary site plan. The panel location will be on a structural pad, which will allow proper working area around the service equipment for City and PG&E maintenance personnel. The panel will utilize 225 Amp, three-pole distribution breakers to supply appropriately-sized feeders out to the point of the charging systems. A trench with a minimum of 24-inches cover will be excavated from the service equipment to the point of the charging equipment pads. The structural pads will be designed to accommodate the charging systems selected by the City of Santa Rosa. The current proposed charging system is based on the ABB HVC 150C (150 kW) chargers, please find additional information on our proposed chargers at the end of this Work Plan.
A total of three chargers are planned to be installed under this contract, with the make-ready supplied to the location of two future pads. The trench will be provided with appropriate sand bedding and backfilled with a controlled density fill up to the point of the finished surface. The finished surface will be restored to the condition it was found, or to meet the current city standards. Once surfaces are restored, finish striping and signage will be placed and protective barriers will be installed to protect all electrical equipment.

Because the City has also included one parking lot type light, this proposal includes one parking lot light with associated feeders and structural foundation per City or Caltrans Standard, and installation of one 25- to 30-foot light pole.

2. DETAILED PROJECT APPROACH

Upon award of the project, the Owner (City of Santa Rosa) provides the notice to proceed (NTP) to the Contractor, Cupertino Electric, Inc. (CEI). Next the Contractor performs engineering design walk/reconnaissance to finalize details and AHJ expectations (includes PG&E's To The Meter design). CEI will complete the design and supporting calculations for a code compliant installation of three Level 3 chargers and two future Level 3 Chargers, with no ADA upgrades. Shortly after the site walk, CEI will work with vendors to design and order the switchgear. Once the design reaches the appropriate design milestone, CEI will submit for approval from the City before continuing, then ultimately apply for the building and electrical permits. CEI manages the permitting process, following up with the local AHJ (City of Santa Rosa) response to design comments and then pulling the permit. CEI will wait for the NTP on construction scope from the City of Santa Rosa.

As permits are complete, CEI will schedule preconstruction meetings with appropriate stakeholders. CEI will outline the scope of the project, responsibilities of the work and point of contact for questions. Once the start date is agreed upon, CEI will call to open a USA ticket, mobilize our line and locate a contractor to identify existing underground utilities to avoid any strikes.

When crews mobilize on site, CEI will start with the sawcut/demo asphalt areas and work on the trench line for the conduit runs. Upon the trench excavation and conduit installation, we will call for an underground inspection before covering the work with backfill. While the conduits are being installed, CEI will excavate for the meter pad foundation and charger base foundations. Upon excavation completion, CEI will call for an inspection of the pad/foundation bases and rebar. Once passed, we will pour and strip the pad/bases. After the pad has achieved its strength, we will set the MSB and install the grounding. CEI will submit for the PG&E meter-release once the MSB is inspected and green tagged by the city. Once the pads/foundations are complete the civil crew will restore the site by repairing asphalt, concrete, and softscape disturbed during construction(including striping any lines in the trench path). As the MSB and grounding is complete, CEI will pull wire to all the charger locations and begin terminations inside the MSB.

The final step is to install the chargers on their foundations and terminate wires in the charger. CEI will schedule final inspection with the AHJ and punch-list walk with the site host representative.

3. STATEMENT OF SCOPE OF SERVICES

CEI has assigned a project manager who will be responsible for this project from the time of award to final closeout of the project. The project manager will oversee the design process to ensure timely submittal of review documents and accuracy to meet the intent of the contract.

Upon award and NTP to design, the project manager will schedule an initial design review. At this time, the 35% PS&E will be presented to the City and reviewed together with the project team. The overall design is expected to take 30 days to complete, and includes ample time for the City to review at 35%, 65%, and 100% PS&E stages. Once the 100% design has been approved, it will be submitted to the City Permitting Departments for review, and a full Electrical Equipment Submittal Binder will be reviewed by City Engineering and PG&E.

Upon design completion and submittal to the City Permitting Agencies, CEI will request to release the long lead items (ex: electrical service equipment and charging equipment) to initiate the procurement stage.

Once the permit has been approved and CEI has been given NTP to the construction stage, CEI will begin construction. The construction duration is outlined in the project schedule (attached) and is additionally defined in the detailed project approach section included within this document. The major milestones to complete the project are driven on design acceptance and delivery of long lead items. The overall construction duration is planned to be completed within a 30-day period after notice to proceed.

CEI will coordinate acceptance of the meter panel and PG&E meter placement. This allows the TTM scope can be completed within the designated project schedule—PG&E typically requires BTM completion before they will schedule their internal TTM crews to install.

CEI will have a foreman dedicated to the site, to serve as onsite representative. CEI's foreman will be responsible for daily safety pre-tasks, monitoring and controlling safety throughout the site and maintaining quality control activities for all work performed under this contract. The foreman with schedule preconstruction meetings and meetings/inspections with City personnel and PG&E.

At the time of substantial completion, CEI will invite representatives from the City of Santa Rosa and PG&E to the site to perform a punch-list walk. If any correction items are found, the will be corrected, and completed within five days of completion. At completion of the project, CEI will supply an as-built and closeout package, with warranty and O&M documents.

4. PROJECT SCHEDULE

A detailed project schedule has been prepared in Primavera P6, and is supplied as an attachment within this proposal.

5. ABILITY TO MEET SCHEDULE

Cupertino Electric, Inc. is an established electrical contractor with more than 65years of experience delivering successful on-time and on-budget projects.

We are the Bay Area's largest EPC Contractor and have more than 10 years of experience with electric vehicle supply equipment (EVSE) installations.

CEI is signatory to the International Brotherhood of Electrical Workers (IBEW) and our workforce is all union based. Our signatory to the IBEW allows CEI the flexibility to have skilled, available resources to complete projects in various regions consecutively without delays in workforce.

Through utilization of Primavera P6, CEI is able to use predecessor and successor logic to sequence the work in a manner that allows for consistant project delivery ahead of commitment dates.

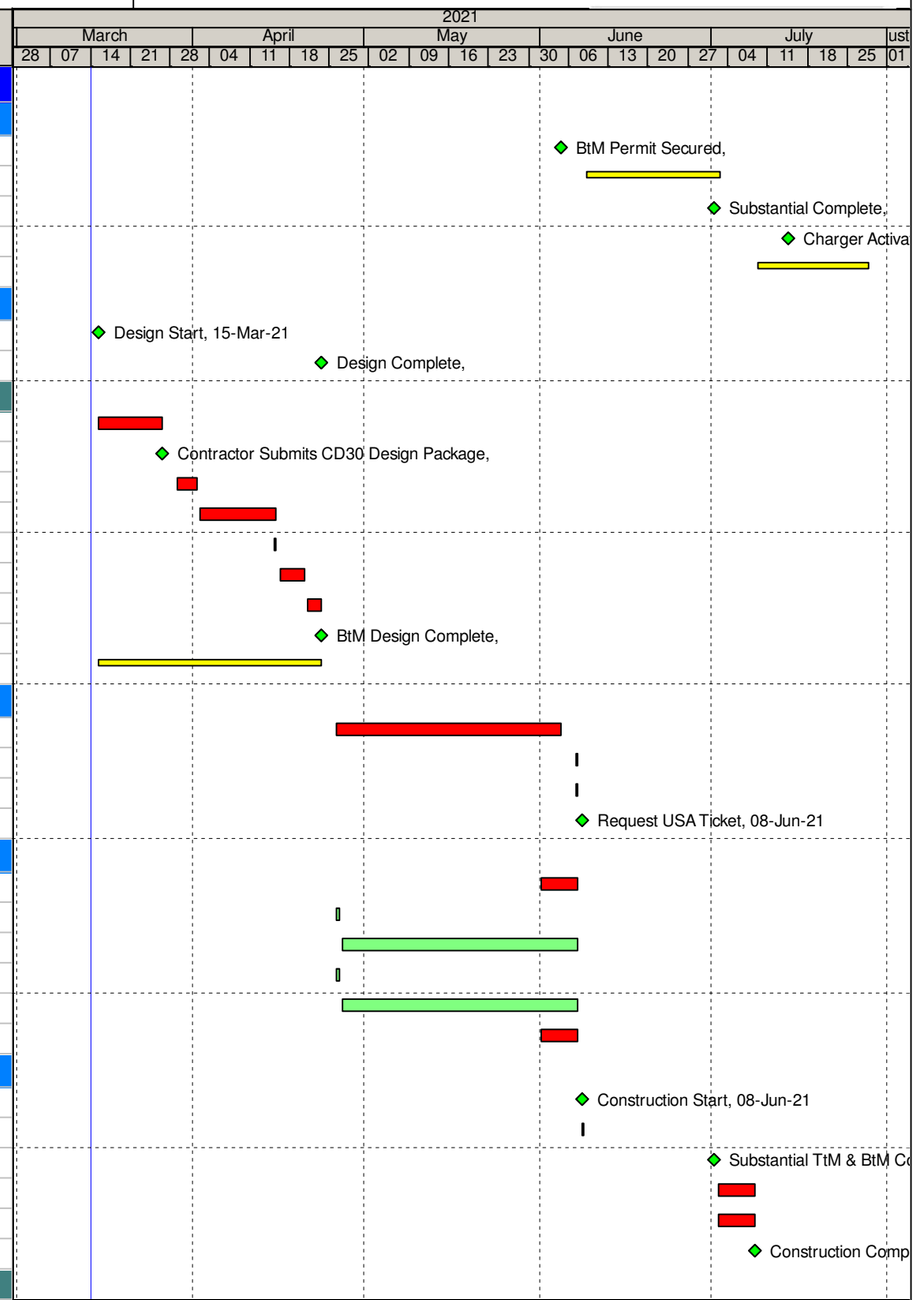
By completing procurement at the front end of the project, CEI will have the opportunity to deliver this project ahead of the anticipated completion time frame.

Print Date: 10-Feb-21
Data Date: 14-Mar-21

EV
Contract Issue

CUPERTINO ELECTRIC INC.

Activity ID	Activity Name	Original Duration	At Completion Duration	Start	Finish
55 STONY POINT RD		98	98	15-Mar-21	28-Jul-21
Key Activities & Milestones		38	38	04-Jun-21	28-Jul-21
MS1030	BtM Permit Secured	0	0		04-Jun-21
MS1040	BtM Construction - LOE	18	18	09-Jun-21	02-Jul-21
MS1060	Substantial Complete	0	0		01-Jul-21
MS1070	Charger Activation	0	0		14-Jul-21
MS1080	Commissioning & Close-out - LOE	14	14	09-Jul-21	28-Jul-21
Design		30	30	15-Mar-21	23-Apr-21
DS1029	Design Start	0	0	15-Mar-21	
DS1040	Design Complete	0	0		23-Apr-21
BtM Design		30	30	15-Mar-21	23-Apr-21
DB1000	Contractor Prepares CD30 BtM Design Package	10	10	15-Mar-21	26-Mar-21
DB1010	Contractor Submits CD30 Design Package	0	0		26-Mar-21
DB1020	CD30 Design Review	4	4	29-Mar-21	01-Apr-21
DB1030	Contractor Prepares CD100 BtM Design Package	10	10	02-Apr-21	15-Apr-21
DB1040	Contractor Submits CD100 Design Package	1	1	15-Apr-21	15-Apr-21
DB1050	PG&E Reviews & Approves CD100 Design Package	3	3	16-Apr-21	20-Apr-21
DB1060	Contractor Incorporates Comments & Signs Drawings	3	3	21-Apr-21	23-Apr-21
DB1070	BtM Design Complete	0	0		23-Apr-21
DERESLOE-BTM	LOE - DESIGN RESOURCE - BtM	30	30	15-Mar-21	23-Apr-21
Pre-Construction		31	31	26-Apr-21	08-Jun-21
PC1050	Contractor Secures BtM Permit Package From Authorities Having Jurisdiction (AHJ	30	30	26-Apr-21	04-Jun-21
PC1130	Contractor Pre-Construction Meeting	1	1	07-Jun-21	07-Jun-21
PC1135	Contractor Provides Construction Baseline	1	1	07-Jun-21	07-Jun-21
PE.1023	Request USA Ticket	0	0	08-Jun-21	
Procurement		31	31	26-Apr-21	07-Jun-21
PR1000	Contractor Procures Subcontract	5	5	01-Jun-21	07-Jun-21
PR1010	Contractor Procures Transformer	1	1	26-Apr-21	26-Apr-21
PR1015	Supplier Builds Transformer	30	30	27-Apr-21	07-Jun-21
PR1020	Contractor Procures Meter Panel/Switchgear	1	1	26-Apr-21	26-Apr-21
PR1025	Supplier Builds Meter Panel/Switchgear	30	30	27-Apr-21	07-Jun-21
PR1030	Contractor Procures & Delivers Other Materials (Conduit, Cables, etc.)	5	5	01-Jun-21	07-Jun-21
Construction		23	23	08-Jun-21	08-Jul-21
CN1000	Construction Start	0	0	08-Jun-21	
CN1005	USA & Private Locating/Site Layout & Survey	1	1	08-Jun-21	08-Jun-21
CN1020	Substantial TtM & BtM Completion	0	0		01-Jul-21
CN1030	Contractor Restores Site	5	5	02-Jul-21	08-Jul-21
CN1040	Contractor Restores ADA	5	5	02-Jul-21	08-Jul-21
CN1060	Construction Complete	0	0		08-Jul-21
BtM Construction		18	18	09-Jun-21	02-Jul-21



Remaining Level of Effort
WBS SUM
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining...

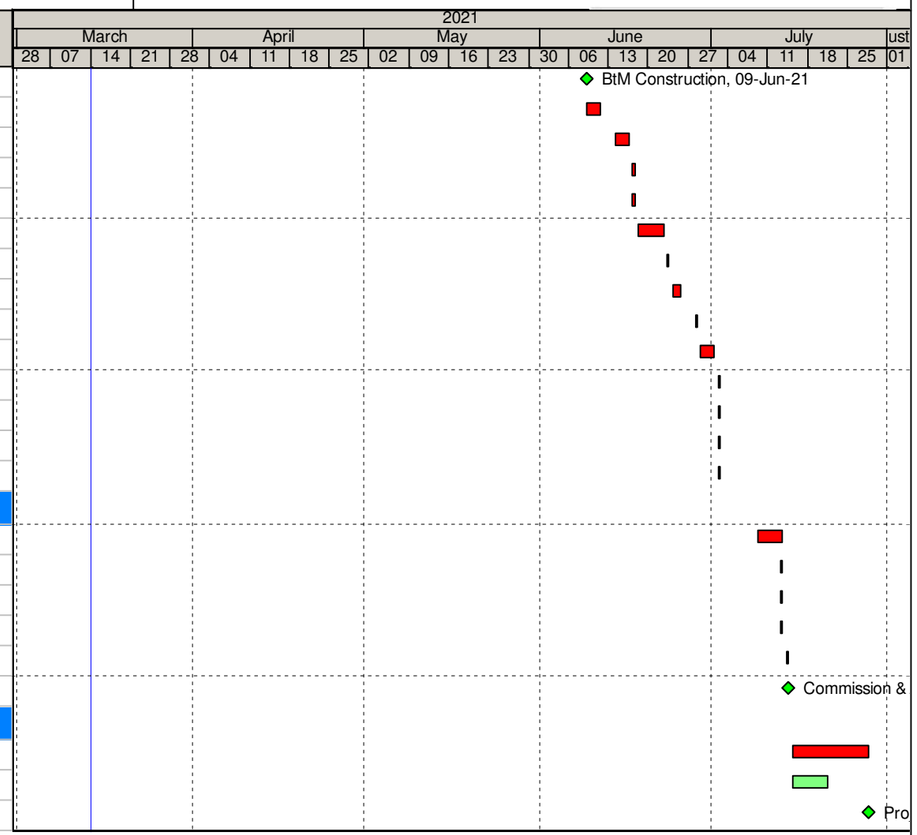
TASK filter: _EV - NO WBS.
Layout: EV - CONTRACT ISSUE

Print Date: 10-Feb-21
Data Date: 14-Mar-21

EV
Contract Issue

CUPERTINO ELECTRIC INC.

Activity ID	Activity Name	Original Duration	At Completion Duration	Start	Finish
CB1000	BtM Construction	0	0	09-Jun-21	
CB1010	Contractor Saw Cut & Demo Existing	3	3	09-Jun-21	11-Jun-21
CB1015	BtM Trench	3	3	14-Jun-21	16-Jun-21
CB1020	Contractor Installs UG Or AG Conduit & Grounding	1	1	17-Jun-21	17-Jun-21
CB1025	BtM PG&E Inspection Sign-off	1	1	17-Jun-21	17-Jun-21
CB1030	Contractor Forms Pads, Rebar & Set Precast	3	3	18-Jun-21	22-Jun-21
CB1040	AHJ Inspection Of Pads & Rebar	1	1	23-Jun-21	23-Jun-21
CB1050	Contractor Pours Concrete & Cure	2	2	24-Jun-21	25-Jun-21
CB1060	Contractor Sets Meter Panel & Switchgear	1	1	28-Jun-21	28-Jun-21
CB1070	Contractor Pull Wires & Termination	3	3	29-Jun-21	01-Jul-21
CB1090	AHJ Inspection Of Meter Panel & Switchgear	1	1	02-Jul-21	02-Jul-21
CB1100	Panel Inspection	1	1	02-Jul-21	02-Jul-21
CB1110	Set Current Transformer	1	1	02-Jul-21	02-Jul-21
CB1120	Set Meter	1	1	02-Jul-21	02-Jul-21
Commission & Activation		4	4	09-Jul-21	14-Jul-21
CX1000	Installation Of Chargers	3	3	09-Jul-21	13-Jul-21
CX1001	Electrical Final	1	1	13-Jul-21	13-Jul-21
CX1002	Building Final	1	1	13-Jul-21	13-Jul-21
CX1003	Fire Marshal Final (If Applicable)	1	1	13-Jul-21	13-Jul-21
CX1010	Activation Of Charger	1	1	14-Jul-21	14-Jul-21
CX1050	Commission & Activation Complete	0	0		14-Jul-21
Close-Out		10	10	15-Jul-21	28-Jul-21
CO1000	Contractor Provides Final Billing	10	10	15-Jul-21	28-Jul-21
CO1020	BtM As-Built and Close-Out Documentation	5	5	15-Jul-21	21-Jul-21
CO1030	Project Close-Out Complete	0	0		28-Jul-21



Remaining Level of Effort
WBS SUM
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining...

TASK filter: _EV - NO WBS.
Layout: EV - CONTRACT ISSUE

GENERAL NOTES:

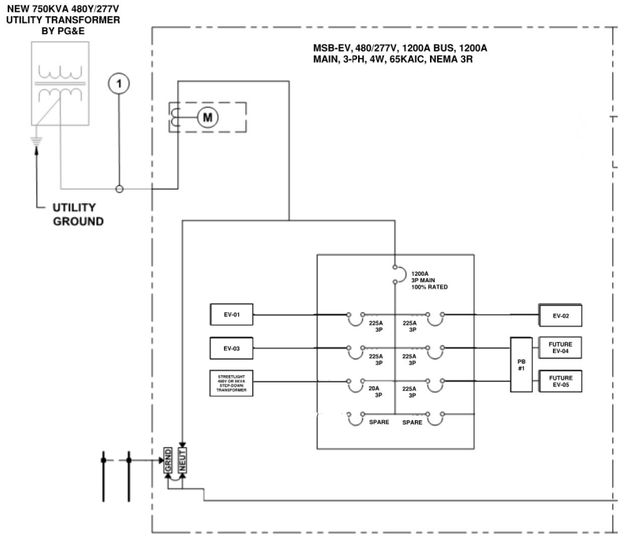
1. ALL EQUIPMENT, FEEDERS AND DEVICES PROVIDED UNDER THIS SCOPE OF WORK IS NEW AND SHOWN IN BOLD UNLESS OTHERWISE NOTED.
2. POWER CONDUITS: NO MORE THAN THE EQUIVALENT OF FOUR 90 DEGREE BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS PER CEC 358.26. PROVIDE PULL BOXES WITH MINIMUM SIZE REQUIREMENTS PER CEC 314.28 AND 314.71
3. PERFORM GROUND PENETRATING RADAR SURVEY PRIOR TO DIGGING.
4. EQUIPMENT LOCATION AND TRENCH PATHS ARE DIAGRAMMATIC. ACTUAL LOCATIONS AND PATHS SHALL BE COORDINATED IN THE FIELD.

SHEET NOTES:

55 STONY POINT ROAD, SANTA ROSA

Total of 5 EV Spaces (~690 KVA)

(3) LEVEL 3 BUS CHARGING UNITS (~138KVA)
(2) LEVEL 3 FUTURE CHARGING SPACES, INSTALL MAKE READY INFRASTRUCTURE
(1) 750KVA PG&E TRANSFORMER
(1) 1200A 3-PHASE EV PANELBOARD WITH METER & DISTRIBUTION
(1) STREET LIGHT - PER CITY STANDARDS
(N) PROTECTIVE WHEEL STOPS AT BACK OF BUS STALLS
(N) PROTECTIVE BOLLARDS AS REQUIRED TO PROTECT ELECTRICAL EQUIPMENT



1. EXAMPLE SINGLE LINE DIAGRAM

TRANSFORMER LOADING INFORMATION				
	WINTER		SUMMER	
PEAK MONTH	Jan-20		Aug-20	
NAMEPLATE KVA	750		750	
CALC. CAPACITY (KVA)	1050		1050	
CALC. PEAK LOAD (KVA)	0		0	
CURRENT PERCENT LOADING	0.0%		0.0%	
SM CUSTOMERS / TOTAL CUSTOMERS	1/1		1/1	
SM RATIO	100%		100%	
CUSTOMER TYPE	**QTY**	**KVA**	**QTY**	**KVA**
DOMESTIC				
COMMERCIAL				
INDUSTRIAL				
AGRICULTURAL				
OTHER				
ADDED LOAD (KVA)	**690**		**690**	
PROPOSED PERCENT LOADING	**66%**		**66%**	

EXISTING LOAD EVALUATION	
TRANSFORMER/ASSET NUMBER	XXXX
TRANSFORMER TYPE	PADMOUNT
EXISTING TRANSFORMER CAPACITY (kW)	750
PEAK LOAD PERCENTAGE ALLOWED	100%
EXISTING PEAK LOAD (kW)	0
PEAK LOAD PERCENTAGE	0%

PROPOSED ADDED LOAD EVALUATION	
PROPOSED LOAD (kW) (EV CHARGERS)	690
TOTAL NEW PEAK LOAD (kW)	690
TOTAL ESTIMATED NEW PEAK LOAD PERCENTAGE	92%
TRANFORMER MEETS REQUIREMENT Y/N	YES

2. TRANSFORMER LOAD EVALUATION (UTILITY)

3. EQUIPMENT SPECIFICATION

REVISIONS

0	35PCT SUBMITTAL EXAMPLE	01/26/2021

PG&E

CUPERTINO ELECTRIC
1132 NORTH 7TH STREET
SAN JOSE, CA 95112
(408)808-8020
C-10 LIC.NO. 174437

DO NOT SCALE THIS DRAWING. USE DIMENSIONS ONLY. ORIGINAL DRAWING SIZE 24"X36"

DRAWN BY: KF

DATE 01/26/2021

PRELIMINARY SITE PLAN
SANTA ROSA CITY BUS
55 STONY POINT ROAD
SANTA ROSA, CA

NOT FOR CONSTRUCTION

USA NORTH 811 Call 811 Before You Dig

INCH 0 1 2 3 4 5

PRODUCT LEAFLET

Electric Vehicle Infrastructure

HVC-C UL depot charging for electric fleets

ABB HVC-C UL Depot Charging systems offer a highly reliable, intelligent and cost-effective solution to charge large EV fleets such as buses, trucks and other commercial vehicles.

—
HVC Depot Boxes and power cabinets, lined up at a depot site.

A practical solution for busy depots
ABB Heavy Vehicle Charger (HVC) products enable electric buses and trucks to charge at the depot ensuring flexibility and scale for every fleet operation that is transitioning to zero-emission transportation.

Key Benefits
+ Smart charging
+ Small infrastructure footprint at vehicle interface
+ Flexible design for roof and floor mounting
+ SAE J1772 CCS and OCPP 1.6 compliant
+ Remote diagnostics and management tools

Sequential Charging
Improving total cost of ownership is easy using the sequential charging feature offered by ABB's depot chargers. This feature allows connection of up to three depot charge boxes with a single power cabinet and vehicles are charged sequentially over time. The system can follow an embedded, predefined charging process or remote triggers sent by a fleet management system via OCPP 1.6.

- Vehicles are charged with high power, maximizing vehicle availability
- The required grid connection is smaller, reducing upfront investments and operational costs
- The compact depot box is easy to install at sites with space constraints
- Optimal utilization of installed infrastructure meaning lower investments in charging equipment.

Buy America
ABB can offer the HVC-C Depot Charging Solution with compliance to the Buy America Act Rule 49 CFR Part 661.5.

Future-proof modular design
Power cabinets can be upgraded from 100 or 150 kW in the field, as well as add additional depot charge boxes, allowing operators to scale their operation and to spread investments over time.

Safe and reliable operation
ABB fast chargers are designed to the highest international electrical, safety, and quality standards, and are certified by notified bodies - guaranteeing safe and reliable operation.

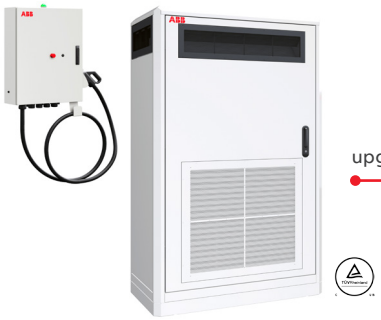
Connectivity and remote services
ABB chargers come with an extensive suite of connectivity features including remote services such as monitoring, management, diagnostics and software upgrades. These advanced services provide equipment owners with powerful insights into their charging operations while enabling high uptime.

ABB is your experienced partner
ABB HVC products are based on a decade of high power experience in EV charging solutions. ABB has installed over 17,000 fast charging systems in more than 80 countries – and is the leading EV infrastructure technology supplier globally.

Overnight charging 100 kW - 150 kW

A field upgradeable system with future proof reliability

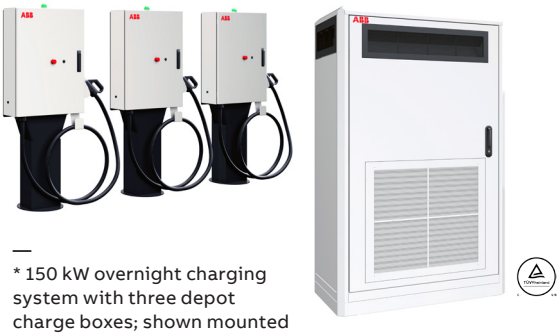
HVC 100C



upgradable

HVC 150C

HVC 150C*



A power upgrade can be done in the field by adding an extra power module. No groundworks, digging and disturbance to the site are required.

* 150 kW overnight charging system with three depot charge boxes; shown mounted on pedestal option.

Technical specifications			
Configurations		**HVC 100C**	**HVC 150C**
Maximum output power		100 kW	150 kW
AC Input voltage		UL: 3-phase, 480Y/277 VAC +/- 10% (60 Hz) CSA: 3-phase, 600Y/347 VAC +/-10% (60 Hz)	
AC Input connection		L1, L2, L3, GND (no neutral)	
Rated input power		117 kVA	170 kVA
Rated input current		UL: 132 A / CSA: 108 A	UL: 198 A / CSA: 168 A
Recommended upstream circuit breaker(s)		UL: 1 x 200 A / CSA: 1 x 150 A	UL: 1 x 250 A / CSA: 1 x 250 A
Output voltage range		150 – 850 VDC	
Maximum DC output current		166 A	200 A
Vehicle connection interface		CCS/Combo Type 1 Connector	
Cable length		3.5 m (11.5 ft) standard; 7 m (23 ft) optional	
DC connection standard		SAE J1772 - IEC 61851-23 / DIN 70121 - ISO 15118	
Environment		Indoor/Outdoor	
Operating temperature		Standard: -10 °C to +50 °C (de-rating characteristic applies) Optional: -35 °C to +50 °C	
Protection		Power Cabinet: IP54 – IK10 (equivalent to NEMA 3R) Depot Charge Box: IP65 - IK10	
Network connection		GSM/3G modem | 10/100 base-T Ethernet	
Compliance and Safety		CSA No. 107.1-16 and UL 2202 certified by TUV BA Rule 49 CFR Part 661.5 (Optional)	
Dimensions			
Power Cabinet	Dimensions (H x W x D)	2030 x 1170 x 770 mm / 79.9 x 46.1 x 30.3 in	
	Weight	1340 kg / 2954 lbs	
Depot Charge Box (without pedestal)	Dimensions (H x W x D)	800 x 600 x 210 mm / 31.5 x 23.6 x 8.3 in	
	Weight	61 kg / 134.5 lbs (with 7 m / 23 ft cable)	
Depot Charge Box (with pedestal)	Dimensions (H x W x D)	1914 x 600 x 400 mm / 75.4 x 23.6 x 16.3 in	
	Weight	181 kg / 398 lbs (with 7 m / 23 ft cable)	

ABB Inc.
950 W Elliott Road, Suite 101
Tempe, AZ, 85284
United States
Phone: 800-435-7365
E-mail: US-evci@us.abb.com

ABB Inc.
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Saint-Laurent, QC H4S 0B5
Canada
Phone: 800-435-7365
E-mail: CA-evci@abb.com

abb.com/evcharging

9AKK107680A4436 R2

REFERENCES

PG&E DCFC – 7-ELEVEN WEST SACRAMENTO

Project Location: 4010 Lake Road, West Sacramento, CA

Project Description: This project was self-performed by CEI, scope included a new PG&E TTM transformer interconnected to the existing PG&E infrastructure, a new 800Amp Switchgear with structural pad, (4) new Level 3 Chargers, and associated ADA Path of Travel upgrades with parking lot improvements and striping.

Project Contact Name: James (Jimmy) Ellis

Project Contact Phone Number: (301) 502-2226

Project Design Fees: Project was designed by an outside agency, permit was pulled by Cupertino Electric, and only included permitting costs of $1,709.00

Construction Duration: Dec. 5 – 23, 2020

Construction Fees Estimate: $218,293.37

Final Construction Cost: There were no changes to the overall cost of construction, final cost $218,293.37

CONTRA COSTA COMMUNITY COLLEGE

Project Location: 321 Golf Club Road, Pleasant Hill

Project Description: This project was self-performed by CEI, scope included a new PG&E pole with new transformer, a new 400amp service, 14 level-2 chargers, ADA Path of Travel Upgrades, and striping/signage

Project Contact Name: Rob Mohr

Project Contact Phone Number: (510) 704-3220

Project Design Fees: $21,124.18, & DSA Permit Fees $2,970.00

Construction Duration: Dec. 31, 2019 - Jan. 7, 2020

Construction Fees Estimate: $299,832.95

Final Construction Cost: $306,693.34, DSA cost increase for state permitting fees

RESCUE UNIFIED SCHOOL DISTRICT

Project Location: 400 Tully Road, San Jose, CA

Project Description: This project was self-performed; scope included a new PG&E primary intercept pole, underground feeders to a new padmounted transformer, and an 800amp service to feed an 11-port EV Bus Fleet Project.

Project Contact Name: Philip Jones

Project Contact Phone Number: (530) 672-4300

Project Design Fees: $11,815.00

Construction Duration: Nov. 18, 2019 - Jan. 16, 2020

Construction Fees Estimate: $231,988.06

Final Construction Cost: There were no changes to the overall cost of construction, final cost was $231,988.06