

(Page 1 /4)



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

Application packages must be submitted to the Air District BOTH electronically (online) and as a hard copy (one copy). Grant applications will be accepted through Friday, December 18, 2015 (by 4 PM). Only complete applications will be evaluated. Please refer to the [EV Charging Demonstration Program website](#) for complete program eligibility requirements and instructions.

This application works best using **Google Chrome** or **Mozilla Firefox** browsers. Please do not use the backward/forward button of the browser to navigate through the application; this will cause data to be lost. Instead, click on the page numbers on the upper right of the page or use the buttons on the bottom to go to the desired page.

\* Indicates required field.

## PART 1. APPLICANT INFORMATION

Legal Name of Applicant/Organization

**San Francisco Bay Area Rapid Transit District (BART)**

Department (optional)

Project Title

**Warm Springs Station - EV Charging**

### APPLICANT'S ADDRESS

Legal Address	Street Address Line 2	City	State	Zip
<b>300 Lakeside Drive</b>	<b>Mail Code LKS-21</b>	<b>Oakland</b>	<b>CA</b>	<b>94612</b>

Do you have a mailing address different from above?

**No**

**CONTACT INFORMATION**

This person serves as the point of contact for day-to-day communications.

Name of Project Contact	Project Contact Position/Title	Project Contact Email Address	Project Contact Phone Number
Connee Lloyd	Manager Energy Division	<a href="mailto:clloyd@bart.gov">clloyd@bart.gov</a>	510-464-6186

Is the person authorized to sign documents the same as Project Contact

Yes

Is the person completing the application the same as Project Contact?

No

Person Completing Application Name	Person Completing Application Position/Title	Person Completing Application Email Address	Person Completing Application Phone Number
Elizabeth Cleveland	Sr. Project Manager	<a href="mailto:elizabeth.cleveland@energycenter.org">elizabeth.cleveland@energycenter.org</a>	858-633-8579

For additional information contact us by email at [grants@baaqmd.gov](mailto:grants@baaqmd.gov) (subject "RE: EV Charging Station Demonstration Program") or by phone at 415-749-4994. For a complete listing of Program Requirements, please visit the [EV Charging Station Demonstration website](#).

**PART 2. PROJECT INFORMATION (Page 2 /4)**

If the project includes **more than one** charging facility, then Section II. must be completed for each distinct facility. To add another charging facility, click on "Add Another Facility" on the bottom of the section.

***I. Project Schedule***

Please provide the proposed Project schedule. For the Project Start Date, indicate when work will commence (e.g., apply for permits, initiate CEQA, place order for equipment). For Project Open Date, indicate when all of the installation work for this project will be complete and all of the facilities that are part of this project will be open and available for use.

Project Start Date	Project Open Date
4/15/2016	6/30/2016

***II. Facility Information***

**A. FACILITY LOCATION**



Provide the following total number of existing charging stations at the proposed facility:

Number of existing Level 1?

0

Number of existing Level 2?

0

Number of existing DC Fast?

0

Are you requesting a case-by-case evaluation for this facility? If yes, skip to Section C below and upload additional information that may help us evaluate your project on the next page.

- No

Are you requesting additional funding or "Bonus" for Solar or Wind power generation at this facility?

Note: Pre-existing solar or wind installations will not qualify for additional funding.

No

### B. CHARGER INFORMATION

Total Eligible Cost

Charger Type	Charger Quantity	# of ports per charger	Request per Charger (\$)	Solar or Wind Bonus?	Bonus Request per Charger (\$)	Total Cost of Charger (\$)	Total Request per Charger (\$)	Total Request (\$)
Level 2	18	2	11000	No	0	369800	11000	198000
Level 2	5	1	10400	No	0	90500	10400	52000

#### Discounts, Credits, & Non-Air District Grants/Rebates

Provide a list of ALL discounts, credits, and non-Air District grants/rebates by source and by charger type. If these funds are derived from more than a single source, specify each funding source and the amount on a separate line. ***Air District will subtract these funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information about how award amount is determined.***

Source	Amount (\$)	Funding Status	Charger Type

Total Eligible Cost of this Facility:

**460300.00**

Total Request for this Facility:

**250000.00**

### C. IMPACTED COMMUNITIES & PRIORITY AREAS

As part of the evaluation criteria, projects in PDA or CARE areas will receive high priority.

Is the Facility located in a Bay Area CARE Area?

**No**

Will the service operate in a designated Planned or Potential Priority Development Area (PDA)?

**Yes**

Using the [map](#), please indicate in the table below the Priority Development Area. Use the “zoom in” tool to enlarge the map to best identify boundaries and PDA codes.

	Location or Code	PDA Type
PDA	<b>Warm Springs (Fremont)</b>	<b>Planned</b>

TOTAL ELIGIBLE COST OF PROJECT

**460300.00**

TOTAL REQUEST

**250000.00**

For additional information contact us by email at [grants@baaqmd.gov](mailto:grants@baaqmd.gov) (subject "RE: EV Charging Station Demonstration Program") or by phone at 415-749-4994. For a complete listing of Program Requirements, please visit the [EV Charging Station Demonstration website](#).

### PART 3. SUPPLEMENTAL DOCUMENTS (Page 3 /4)

#### 1. Evidence of Authority to Apply & Implement

##### **Letter of Support - BART Grant Application 12-18-15.pdf**

A signed letter of commitment from an individual with authority to enter into a financial commitment and carry out the Project (e.g., Chief Executive or Financial Officer, Executive Director, City Manager);

**OR**

A signed resolution from the governing board (e.g., City Council, Board of Supervisors, Board of Directors).

The signed letter of commitment or resolution must address the following:

- Authorize the submittal of the application.
- Confirm that the entity has secured matching funds from a non-Air District source(s) that would fund the costs to purchase/install and maintain the vehicle charging station in excess of the award amount.
- Acknowledge that the entity will operate and maintain the station for its intended purpose for a minimum of three years.

2. Copy of Cost Estimate from Licensed Contractor

**Cost Estimate Summary - Fully Combined.pdf**

A copy of the estimate to construct the charging station with contractor license number. As part of the estimate, include specification sheet of charging equipment. Submit a cost estimate for each facility. The cost estimate must specify the cost of each charger.

3. Map of Proposed Locations

**Map of Proposed Locations - Fully Combined.pdf**

Map showing the location in detail for each proposed location. Map must show 1) proximity to nearest roadway, 2) proximity to buildings, 3) proximity to existing charging stations, and 4) basic schematic. If proposed locations are in multiple non-congruent areas, it is ideal to upload multiple maps as one PDF file.

4. Proof of Authority to Install & Operate

**Additional Documentation - authority to install & insurance.pdf**

A copy of the memorandum of understanding (MOU), contract with charging station site host/owner, or other documentation.

5. Proof of Insurance

**Additional Documentation - authority to install & insurance.pdf**

Proof of insurance as described in Appendix A of the Guidance.

6. Additional Information

**Project Description.pdf**

Additional information to help us evaluate your project. Note: If you are requesting a case-by-case evaluation, please provide supporting documentation showing estimate of usage for each charging station.

For additional information contact us by email at [grants@baaqmd.gov](mailto:grants@baaqmd.gov) (subject "RE: EV Charging Station Demonstration Program") or by phone at 415-749-4994. For a complete listing of Program Requirements, please visit the [EV Charging Station Demonstration website](#).

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**PART 4. CERTIFICATION & SURVEY (Page 4 /4)**

By submitting this application online, I agree to the below statements and certify that to the best of my knowledge, the information contained in this application and in any documentation accompanying this application or submitted in furtherance of this application is true and accurate. Also, I understand that any misstatements or omissions of material facts may disqualify this application and any monies awarded based on it.

The applicant entity I represent has read, understood, and agrees to comply with the requirements listed in the EV Charging Station Demonstration Program Guidance.

**Yes**

This application is for evaluation purposes only and does not guarantee project funding.

**Yes**

The applicant entity I represent agrees to operate and maintain all charging stations until the usage requirements have been met and for a minimum of 3 years from the date that the equipment is placed into service.

**Yes**

Any previously TFCA-funded projects from the applicant entity have corrected all audit findings, if any.

**Yes**

If no, please explain:

The proposed project and the emissions reductions that would be realized from it are not required by any federal, state or local regulation, judicial order, agreement, memorandum of understanding, contract, mitigation requirement, or other binding obligation that requires the project applicant to implement any portion of the project that would be funded by the Air District.

**Yes**

The applicant entity I represent is in compliance and will remain in compliance with all applicable federal, state, and local air quality rules and regulations.

**Yes**

If no, please explain:

The applicant entity I represent agrees to submit Semi-annual Progress Reports until the station is put into service and Operational Reports on an Semi-annual basis for the duration of the project to report, at a minimum, electricity dispensed, proof of insurance, and cost to use the station(s).

**Yes**

The applicant entity I represent will allow Air District staff or its designee to inspect all charging station(s) and to audit program records.

**Yes**

The applicant entity I represent agree to participate in case studies, roundtable discussions, and to share information about their Project and lessons learned.

**Yes**

Should the project sponsor fail to meet any of the Program requirements, the award may be cancelled and forfeited; this potentially would require reimbursement of a pro-rated amount of the award.

**Yes**

I have the legal authority to apply for funding on behalf of the applicant entity and that I am authorized to sign this application on behalf of applicant.

**Yes**

Print Name                      Title                                      Date  
**Elizabeth Cleveland Sr. Project Manager 12/18/2015**



Sign Your Name

#### Survey

Please help us improve our grant application process and outreach by answering a few survey questions!

How did you hear about this grant opportunity?

Did you or anyone associated with this application attend an Application Workshop, a meeting, or other event where information was presented about BAAQMD grant programs?

Yes

If yes, provide the event name and date of the event:

Was this application easy to follow?

Yes

Please share your suggestions for improving the application process:





By pressing the *Preview* button, you will be able to (1) review a draft version of your application, (2) print a copy of your application to be submitted to the Air District, and (3) submit your online application. Please review your application thoroughly and make any necessary corrections, before printing and submitting.

**Reminder:** Application packages must be submitted to the Air District BOTH electronically (online) and as a hard copy (one copy). Mail the printed and signed copy of the online application AND the required supplemental documents to the Air District at the address below; please refer to [EV Charging Demonstration Program Website](#) document for complete instructions:


Chengfeng Wang  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109

For additional information contact us by email at [grants@baaqmd.gov](mailto:grants@baaqmd.gov) (subject "RE: EV Charging Station Demonstration Program") or by phone at 415-749-4994. For a complete listing of Program Requirements, please visit the [EV Charging Station Demonstration website](#).

#### Attached Files:

-  Additional Documentation - authority to install & insurance.pdf (183 KB)
-  Additional Documentation - authority to install & insurance.pdf (183 KB)
-  Letter of Support - BART Grant Application 12-18-15.pdf (86 KB)
-  Cost Estimate Summary - Fully Combined.pdf (523 KB)



 Map of Proposed Locations - Fully Combined.pdf (579 KB)

 Project Description.pdf (187 KB)



**SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT**

300 Lakeside Drive, P.O. Box 12688  
Oakland, CA 94604-2688  
(510) 464-6000

2015

December 16, 2015

Thomas M. Blalock, P.E.  
PRESIDENT

Tom Radulovich  
VICE PRESIDENT

Grace Crunican  
GENERAL MANAGER

Attention: SID  
Bay Area Quality Management District  
939 Ellis Street  
San Francisco, CA 94109

**Re: EV Charging Demonstration Program**

Dear Ms. Schkolnick:

**DIRECTORS**

Gail Murray  
1ST DISTRICT

Joel Keller  
2ND DISTRICT

Rebecca Saltzman  
3RD DISTRICT

Robert Raburn, Ph.D.  
4TH DISTRICT

John McPartland  
5TH DISTRICT

Thomas M. Blalock, P.E.  
6TH DISTRICT

Zakhary Mallett, MCP  
7TH DISTRICT

Nicholas Josefowitz  
8TH DISTRICT

Tom Radulovich  
9TH DISTRICT

In support of the Bay Area Air Quality Management District's effort to accelerate the deployment of plug-in electric vehicles (PEVs) throughout the Bay Area, please accept this application from the San Francisco Bay Area Rapid Transit District (BART) for the EV Charging Station Demonstration Program. BART is requesting funding in the amount of \$250,000 for twenty-three (23) electric vehicle (EV) charging stations at the new Warm Springs transit station, scheduled to open summer 2016.

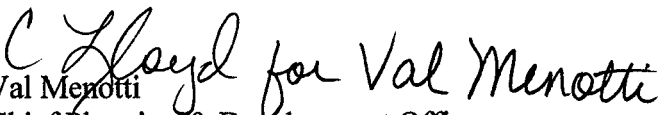
As the Chief Planning & Development Officer of BART, I authorize the submittal of this application, and confirm that BART will provide internal matching funds for the balance of costs after the maximum funding amount has been applied. These funds will be used to facilitate the infrastructure, equipment, installation, and maintenance needed for the EV charging stations. BART agrees to comply with the Program requirements, and to acquire and place the charging stations into service within six months from the date the funding agreement is executed. BART owns the Warm Springs station and has oversight of the property. As such, this serves as confirmation that BART has authority to install and operate the proposed EV charging stations.

BART is excited about this opportunity to provide EV charging to its ridership at the new Warm Springs station, and commits to maintaining and operating the charging stations until the usage requirements are met, and for a minimum of three years. The EV charging stations are anticipated to be a combination of dual and single port level 2 chargers, providing enough charging capacity for 36 vehicles.

BART is extremely adept at developing and maintaining complex infrastructure projects. This demonstration project will not only provide environmental and air quality benefits to the local area, but will serve to inform BART's broader EV policy and future charging station investments. As the manager of more parking spaces than any other government or private entity in the Bay Area, grant funds provided by BAAQMD to BART hold the potential to achieve far-reaching and large-scale impacts.

Thank you for considering BART's application to install an EV charging station demonstration project. Should you have any questions about the application, please contact Connee Lloyd, Manager Energy Division (Acting) by email at [clloyd@bart.gov](mailto:clloyd@bart.gov) or by phone at 510-464-6186.

Sincerely,

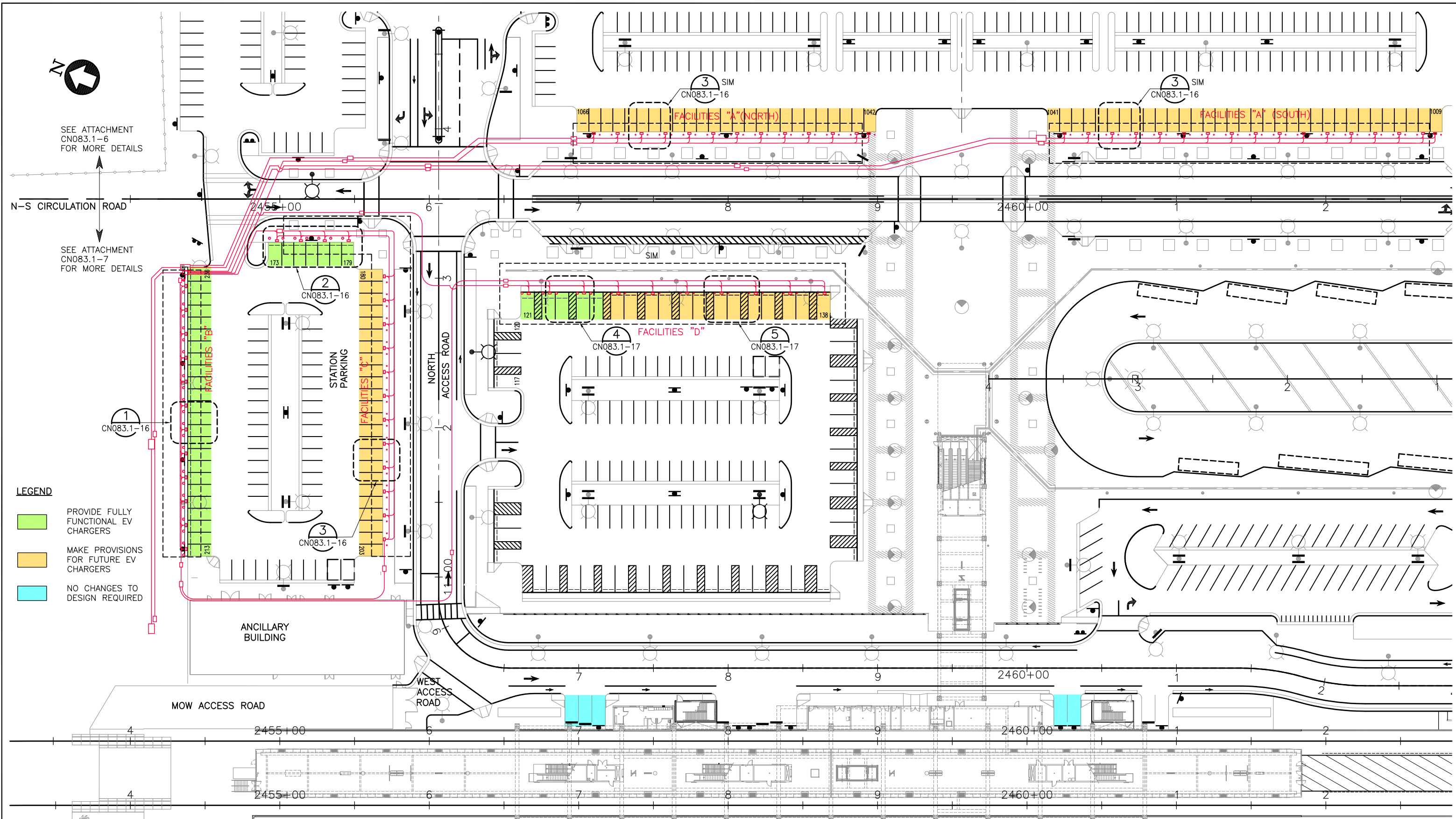
  
Val Menotti  
Chief Planning & Development Officer  
Planning, Development & Construction

## PROJECT DESCRIPTION

BART currently provides transportation services to over 430,000 Bay Area residents each weekday, providing the lowest GHG-emitting form of public transportation, on a passenger-per-mile basis, in the nation. At the same time, BART is dedicated to facilitating Transit-Oriented Development (TOD) projects to further lower transportation-related environmental impacts and emissions. However, as the manager of 46,000 parking spaces throughout the Bay Area, BART also realizes the significant impacts of its management decisions and planning for traditional vehicle travel to and from BART, including decisions that encourage the use of electric vehicle use and electric vehicle charging at BART managed parking lots.

As a result, BART has chosen to test new management and infrastructure policies and designs for electric vehicle use at its new Warm Springs station scheduled to open in the latter-half of Q2 2016. Specifically, BART intends to use the results of its Electric Vehicle Charging Demonstration at the new Warm Springs Station to inform future policies for electric vehicle charging infrastructure throughout the BART system over the next 2-10 years.

The proposed Electric Vehicle Charging Demonstration at the Warm Springs BART is shovel ready, with significant initial work already complete, such as underground conduit runs and concrete EV charging stubs construction complete. However, additional wiring and electrical work still needs to be done. Moreover, while not applying for the solar PV bonus, the Warm Springs Station will have approximately 350 kW of solar PV capacity installed on the station, helping to offset the demand of the EV chargers. Additionally, the project is located in a Priority Development Area (PDA), with the new BART station and extension being a key component of the development for that area. BART has initial plans to coordinate with the proposed EV charging stations, with both onsite demand and local solar PV generation, making the operation of the installation a true demonstration and deployment project.



SEE ATTACHMENT  
CN083.1-6  
FOR MORE DETAILS

SEE ATTACHMENT  
CN083.1-7  
FOR MORE DETAILS

N-S CIRCULATION ROAD

NORTH  
ACCESS ROAD

STATION  
PARKING

ANCILLARY  
BUILDING

MOW ACCESS ROAD

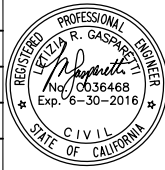
**LEGEND**

- PROVIDE FULLY FUNCTIONAL EV CHARGERS
- MAKE PROVISIONS FOR FUTURE EV CHARGERS
- NO CHANGES TO DESIGN REQUIRED

**ATTACHMENT CN083.1-5**

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED:  
L. GASPARETTI  
DRAWN:  
B. DAVID  
CHECKED:  
H. HARRISON  
APPROVED:  
F. WALIEDDINE  
DATE:  
20140715



**SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT**

**PB Team**  
BART WARM SPRINGS EXTENSION

SUBMITTED *[Signature]*

**PB Team**  
BART WARM SPRINGS EXTENSION

APPROVED *[Signature]*

<b>WARM SPRINGS EXTENSION LINE, TRACK, STATION, AND SYSTEMS</b>		CADD FILENAME
EV CHARGING SYSTEM OVERALL PLAN		SIZE: SCALE D NTS
		CONTRACT NO. <b>02EE-120</b>
		REV.
		CONTRACT SHEET NO. PAGE NO.



Foundations for EV  
Chargers in  
Northwest lot

## COST ESTIMATE FROM LICENSED CONTRACTOR

### Licensed Contractor

The installation of the EV chargers will be completed by the Warm Springs Constructors Design-Build Team. (See attached document listing the approved subcontractors on the team.)

### Estimate Infrastructure Costs

Attached find an internal BART spreadsheet that estimates EV charging infrastructure costs. Some of these measures have already been installed, but it is estimated that approximately \$300,000 worth of materials and installation work is required.

### Price Quote

Attached find a price quote for Level 2 single and duel point chargers from ChargePoint. These values were used to derive the cost per unit for the chargers specifically (before additional eligible infrastructure costs were factored in).

	Single Port Quote (assumed 36 chargers)	Duel Port Quote (assumed 18 chargers)
Total Charger Unit Quote	\$ 205,524	\$ 152,028
Ineligible Costs	\$ (23,243)	\$ (16,961)
Total Eligible Charger Unit Quote	\$ 182,281	\$ 135,067
Total Quote/Charger Unit	\$ 5,063.36	\$ 7,503.72

When factoring in installation materials and labor, the price per unit increases to the following:

Total Cost/Charger including Infrastructure Costs	\$ 18,107	\$ 20,547
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Assuming 23 chargers total, comprised of 18 L2 duel port (\$18,107 x 18) and 5 L2 single port (\$20,547) the total project cost is about **\$460,300**.

**Warm Springs Constructors Design-Build Team  
Kiewit/Mass A Joint Venture**

Design Subcontractors

Abtahi Engineering Management Consultants (S)  
 Auriga Corporation (M)(S)  
 D&D Surveying Inc. (M)  
 DKS Associates (S)  
 ESE Consulting Engineers, Inc. (W)(S)  
 FMG Architects (W)  
 HNTB Corporation  
 HQE International (W)(S)  
 Josephine's Personnel Services, Inc. (W)(S)  
 Kal Krishnan Consulting Services (M)(S)  
 NBA Engineering (W)(S)  
 OLM Consulting Engineers (M)(S)  
 Parikh Consultants, Inc. (M)(S)  
 Stevens & Associates (M)(S)  
 WRECO (M)(S)  
 YEI Engineers, Inc. (M)(S)

Construction Subcontractors

Ascent Elevator Services, Inc. (S)  
 Bagatelos Architectural Glass Systems, Inc.  
 Bay Cities Paving & Grading, Inc. (M)  
 Best Contracting Services, Inc.  
 Blocka Corporation, Inc.  
 California Tile Installers (S)  
 Coats Plumbing (M)  
 Cubic Transportation Systems, Inc.  
 Economy Trucking Services, Inc. (W)(S)  
 ELock Technologies LLC  
 Holland Engineering Rail Solutions  
 John Jackson Masonry  
 Keystone Ridge Designs  
 Kwan Wo Ironworks Inc. (W)  
 LaBat's Tree Care (W)  
 Landavazo Bros. Inc. (M)  
 Landscape Forms Inc.  
 Liberty Fire System (M)(S)  
 M.F. Maher, Inc.  
 Masterpiece Painting (M)  
 Nitta Erosion Control (W)(S)  
 Oliveria Fence, Inc. (W)(S)  
 Pacific Coast Steel  
 Progress Rail Services Corp.  
 RMT Landscape Contractors, Inc. (M)  
 Retaining Walls Co. (S)  
 San Francisco Transport Services, Inc. (W)(S)  
 San Jose Transportation (M)(S)  
 Schindler Elevator Corp.  
 Sierra Traffic Markings, Inc.  
 Watertight Restoration Inc. (S)

Material & Procurement Subcontractors

Alstom Signaling Inc.  
 CMC Rebar  
 Cal-Con Pumping, LLC (W)  
 Central Concrete  
 Costless Maintenance Services Company Inc. (W)  
 Cummins Central Power  
 EFCO, Corp.  
 ERICO International Corporation  
 Fitzgerald Formliners (S)  
 Geo Options Inc.  
 George Reed Inc.  
 Gonsalves & Santucci Inc. DBA: Conco Pumping  
 H D Supply Waterworks LTD  
 H.J. Skelton LTD  
 Hanson Aggregates  
 Integrity Wire Inc. (W)  
 J. Gosnell Sales Company (W)  
 Jensen Precast  
 LB Foster  
 Landavazo Bros. Inc. (M)  
 MAC Products Inc.  
 Meyers Controlled Power LLC  
 Municon Consultants (W)(S)  
 Omega Industries, Inc.  
 Omega Pacific Electric Supply Inc. (M)(S)  
 Pinnacle Petroleum, Inc. (W)(S)  
 Rail Services Corp.  
 San Diego Precast Concrete Inc. DBA: Pomeroy  
 Stevens Creek Quarry  
 The Reinforced Earth Company  
 Tri-C Manufacturing Inc. (S)  
 US Concrete Precast Concrete Group  
 VAE Nortrack North America, Inc.  
 West Coast Aggregates

Legend

(M) = Minority Business Enterprise  
 (W) = Women Business Enterprise  
 (S) = Small Business Enterprise



Change Notice No. 083.1 - Electric Vehicle Charging Station and Conduit for Jumpers at North Transition Structure

Updated: 08/14/15

S. Chow

Item	Sub/Vendor	Warm Springs Constructors - Cost Proposal							BART - Oversight Manager's Estimate						
		Quantity	UOM	Labor	Equipment	Material	Subcontractor	Total	Quantity	UOM	Labor	Equipment	Material	Subcontractor	Total
<b>Construction Costs</b>				\$ 50,490	\$ 5,487	\$ 131,761	\$ 291,890	\$ 479,627			\$ 39,288	\$ 1,836	\$ 104,638	\$ 159,128	\$ 304,890
<b>Add - Revised EV duct bank &amp; conduits</b>				\$ -	\$ -	\$ -	\$ 291,890	\$ 291,890			\$ -	\$ -	\$ -	\$ 159,128	\$ 159,128
Furnish & install grounding in collector pull boxes	SFE	96	ea				\$ 33,600	\$ 33,600	12	ea				\$ 4,395	\$ 4,395
Furnish & install wire	SFE	83,740	LF				\$ 152,810	\$ 152,810	27,101	LF				\$ 49,253	\$ 49,253
Furnish & install vehicle charging stations	SFE	36	ea				\$ 105,480	\$ 105,480	36	ea				\$ 105,480	\$ 105,480
<b>Changes to Electrical Equipment at Ancillary Building</b>	<b>WSC</b>			\$ 50,490	\$ 5,487	\$ 131,761	\$ -	\$ 187,738			\$ 39,288	\$ 1,836	\$ 104,638	\$ -	\$ 145,761
Receive and install equipment/materials		80	hr	\$ 6,871				\$ 6,871	40	hr	\$ 3,453				\$ 3,453
Forklift support - receive equipment/materials		23	hr		\$ 1,495			\$ 1,495	20	hr		\$ 1,289			\$ 1,289
Trucks - transport equipment/materials		146	hr		\$ 3,992			\$ 3,992	20	hr		\$ 547			\$ 547
Misc. Materials		1	LS			\$ 2,000		\$ 2,000	1	LS			\$ 2,000		\$ 2,000
Form Pour Strip Equipment pad		18	hr	\$ 1,556		\$ 250		\$ 1,806	18	hr	\$ 908		\$ 250		\$ 1,158
Grounding		1	LS	\$ 4,016		\$ 1,026		\$ 5,042	1	LS	\$ 4,000		\$ 1,000		\$ 5,000
Sales tax on concrete pad, grounding		9	%			\$ 295		\$ 295	9	%			\$ 293		\$ 293
<b>Conduits and Wires</b>								\$ -							\$ -
Furnish and install GRS conduits (transformer to switchboard & panelboard)		660	LF	\$ 27,031		\$ 10,663		\$ 37,694	526	LF	\$ 11,429		\$ 8,388		\$ 19,817
Furnish, pull & terminate wires		11,977	LF	\$ 8,251		\$ 61,975		\$ 70,226	11,610	LF	\$ 11,296		\$ 47,193		\$ 58,489
Sales tax on wires & conduits		9	%			\$ 6,537		\$ 6,537	9	%			\$ 5,002		\$ 5,002
<b>Circuit Breaker, Transformer, L1A Electrical Panel</b>								\$ -							\$ -
Furnish 1000A circuit breaker, 500kVA (480V-208/120V) transformer, L1A electrical panel		1	LS			\$ 48,500		\$ 48,500	1	LS			\$ 37,168		\$ 37,168
Sales tax		9	%			\$ 4,365		\$ 4,365	9	%			\$ 3,345		\$ 3,345
Credit 225V circuit breaker (furnish & install)		0	ea					\$ -	0	ea	\$ -		\$ -		\$ -
Sales tax		9	%					\$ -	9	%			\$ -		\$ -
Install new L1-A electric panel		12	hr	\$ 1,037				\$ 1,037	42	hr	\$ 3,626				\$ 3,626
Install 1000A breaker at switchboard A1		20	hr	\$ 1,729				\$ 1,729	8	hr	\$ 691				\$ 691
Install 500kva Transformer									45	hr	\$ 3,885				\$ 3,885
<b>SUMMARY</b>								\$ 479,627							\$ 304,890
Construction Costs				\$ 50,490	\$ 5,487	\$ 131,761	\$ 291,890	\$ 479,627			\$ 39,288	\$ 1,836	\$ 104,638	\$ 159,128	\$ 304,890
Markups				\$ 14,782	\$ 2,664	\$ 20,394	\$ 30,159	\$ 67,999			\$ 9,925	\$ (4,439)	\$ 16,109	\$ 18,421	\$ 40,015
G&A (7.54%)								\$ 1,865							\$ 1,420
Gross Receipts Tax (0.01%)								\$ 55							\$ 52
Bond (1%)								\$ 8,994							\$ 5,221
<b>Total Construction Costs for 36 Level 1 EV Chargers, including wiring, grounding, panel and transformer</b>								\$ 558,541							\$ 351,598

Quote Number	00103551	Created Date	12/1/2015
		Expiration Date	1/1/2016
Prepared By	Brendan O'Donnell	Phone	(858) 633-8579
Phone	949.521.3386	Email	elizabeth.kennedy@energycenter.org
Email	brendan.odonnell@chargepoint.com		

**Contact Information \*\*Please verify that Billing & Shipping details are accurate**

Contact Name	Elizabeth Kennedy	Ship To Name	California Center for Sustainable Energy
Bill To Name	California Center for Sustainable Energy	Ship To	9325 Sky Park Ct. Suite 100
Bill To	9325 Sky Park Court, Suite 100 San Diego, CA 92123 US		San Diego, CA 92123 San Diego

These costs were not included in the cost estimate per charger.

**Quoted Line Items**

Product Quoted	Product Description	Sales Price	Quantity	Total Price
CT4021-GW1	Dual Output Gateway Option USA, Bollard Unit - 208/240V @30A with Cord Management	\$7,210.00	2.00	\$14,420.00
CT4021	Dual Output, Bollard Unit - 208/240V @30A with Cord Management	\$6,695.00	16.00	\$107,120.00
CPSUPPORT-ACTIVE	Station Activation & Configuration Service. Activate ChargePoint Service Plans. Activate ChargePoint Warranties. Configure Radio Groups. Configure Custom Groups. Configure Connections. Configure Access Control. Configure Visibility Control. Configure Pricing. Configure Reports and Alerts.	\$349.00	18.00	\$6,282.00
CTSW-SAS-COMM-1	1 Year Pre-Paid Commercial Network Service Plan. Designed for employers, businesses and the government, this plan includes 24x7x365 driver support, access control, general reporting, OTA upgrades, payment processing, flexible pricing policies, reservations and more.	\$280.00	36.00	\$10,080.00
CT4000-SITEVALID	On-Site Validation of electrical capacity, transformers, panels, breakers, wiring, cellular coverage and that station installation meets all ChargePoint published requirements. Note that a failed Site Validation will incur a second validation fee to repeat the validation after the site deficiencies are corrected. Site is defined as a group of stations all connected to the same electrical panel. Site Validation is not required when installation was performed by a ChargePoint national Operations and Maintenance (O&M) Partner or a Channel Partner that has qualified to self-certify.	\$599.00	1.00	\$599.00
CT4000-ASSURE	Initial 1 year of ChargePoint Assure for the CT4000. Parts and On-Site Labor to repair or replace any manufacturing defect. Includes remote monitoring of station and proactive repair dispatch. A successful Site Validation is required to activate the initial ChargePoint Assure coverage if site prep and station install are not performed by a ChargePoint National O&M Partner.	\$0.00	18.00	\$0.00

**Totals**

Subtotal	\$138,501.00
Tax	\$11,547.00
Shipping and Handling	\$1,980.00

Grand Total

\$152,028.00

**Note: Shipping fees and sales tax (in applicable states) will be applied to this quote at time of invoicing.**

### CT4000 ChargePoint Assure Maintenance Options

Parts and On-Site Labor to repair or replace any manufacturing defect. Includes remote monitoring of station and proactive repair dispatch. A successful Site Validation is required to activate the initial ChargePoint Assure coverage if site prep and station install are not performed by a ChargePoint National O&M Partner. Choose a prepaid plan or a committed annual billing plan below.

#### PREPAID PLANS

For up to a total of five prepaid years of ChargePoint Assure.

- 4 additional prepaid years for \$645 per year, per station
- 3 additional prepaid years for \$688 per year, per station
- 2 additional prepaid years for \$705 per year, per station
- 1 additional prepaid year for \$740 per year, per station

#### COMMIT PLANS

For up to a total of five committed years of ChargePoint Assure for the CT4000 billed per year, per station. Annual billing occurs after the first initial year of Assure maintenance.

- 4 additional years billed at \$757 per year, per station
- 3 additional years billed at \$774 per year, per station
- 2 additional years billed at \$791 per year, per station
- 1 additional year billed at \$817 per year, per station

No plan selected

Initial and Date Below

\_\_\_\_\_  
\_\_\_\_\_

### Network Service Plan Options

#### Prepaid Commercial Network Plan

Designed for employers, businesses and the government, this plan includes 24x7x365 driver support, access control, general reporting, OTA upgrades, payment processing, flexible pricing policies, reservations and more.

- 5 prepaid years for \$221 per year, per port \*
- 4 prepaid years for \$227.50 per year, per port \*\*
- 3 prepaid years for \$235 per year, per port
- 2 prepaid years for \$250 per year, per port
- 1 prepaid year for \$280 per year, per port

\* Can only be combined with ASSURE4

\*\* Can only be combined with ASSURE3

#### Prepaid Service Provider Network Plan

Designed for Utilities and EVSPs, this plan includes everything provided in both corporate and commercial service plans plus: white-label braded driver website, load management and driver analytics.

- 5 prepaid years for \$570 per year, per port
- 4 prepaid years for \$583.75 per year, per port
- 3 prepaid years for \$605 per year, per port
- 2 prepaid years for \$642.50 per year, per port
- 1 prepaid year for \$715 per year, per port

\* Can only be combined with ASSURE4

\*\* Can only be combined with ASSURE3

DC Fast pricing is the twice the price of Level2 AC service plan pricing. NOTE: dual nozzle, sequential charging only requires one Service Plan.

### Quote Acceptance

- All pricing is confidential between Customer and ChargePoint.
- All prices are Fob Source.
- Customer to be invoiced at time of shipment.
- All invoices are Net 30 days. Credit checks are required for new customers.
- Pricing does not include installation or mounting services. These can be quoted separately.
- Additional Purchase Terms and Conditions can be found at <http://www.chargepoint.com/termsandconditions>

**By signing this quote I hereby acknowledge that I have the authority to purchase the product detailed on this document on behalf of my organization. Furthermore, I agree to the above terms and conditions and that this signed quote shall act as a purchase order.**

**Accepted by:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Delivery: \_\_\_\_\_  
(Date or ASAP Required)

## Why ChargePoint?

- Over 22,300 charging points deployed across the US and Canada
- Over 150,000 drivers carry ChargePoint cards, significantly more than any other charging station provider
- Make the real-time status of your stations visible to EV drivers on EV charging maps
- Drivers can find stations through their mobile phones or other smart devices and get turn-by-turn directions
- ChargePoint is embedded into in-dash navigation systems of major auto OEMs
- Services delivered from the cloud so your IT Group is not required
- 24 x 7 x 365 driver support available via 800 number (live, not automated)
- 24 x 7 x 365 monitoring of the ChargePoint network by ChargePoint. We can find problems and resolve them before your customers
- 13 x 5 station owner support available. 8AM EST to 6PM PST. No other supplier provides this level of support
- Centrally manage all stations through a secure online portal. Change pricing on all or some stations. Change greeting messages. Provide access control
- Track and report on station utilization, energy costs, and greenhouse gas savings
- Create different groups and assign each group their own pricing, access, etc. (e.g. employees vs. visitors)
- Create customer loyalty programs through ChargePoint Connections (included with Commercial Network Software)
- Stations accept ChargePoint cards, credit cards, and direct access through smart phones. Very flexible pricing scenarios available
- Free software upgrades with software subscription. Stations are always up-to-date thanks to over-the-air software updates
- The most complete EV charging solution in the industry
- The most comprehensive Parts and Dispatch Labor warranty in the industry with Assure Warranty and Post Warranty Maintenance plans
- Guaranteed Uptime and service response time with Assure Warranty and Post Warranty Maintenance plans
- Proactive station monitoring and dispatch to ensure maximum uptime and usability
- Monthly summary and quarterly detailed station performance metrics reports with Assure coverage delivered to you
- Vandalism and Accident labor repair costs coverage with Assure warranty and post warranty maintenance plans

Quote Number	00103553	Created Date	12/1/2015
		Expiration Date	1/1/2016
Prepared By	Brendan O'Donnell	Phone	(858) 633-8579
Phone	949.521.3386	Email	elizabeth.kennedy@energycenter.org
Email	brendan.odonnell@chargepoint.com		

**Contact Information \*\*Please verify that Billing & Shipping details are accurate**

Contact Name	Elizabeth Kennedy	Ship To Name	California Center for Sustainable Energy
Bill To Name	California Center for Sustainable Energy	Ship To	9325 Sky Park Ct. Suite 100
Bill To	9325 Sky Park Court, Suite 100 San Diego, CA 92123 US		San Diego, CA 92123 San Diego

These costs were not included in the cost estimate per charger.

**Quoted Line Items**

Product Quoted	Product Description	Sales Price	Quantity	Total Price
CT4011-GW1	Single Output Gateway Option USA, Bollard Unit - 208/240V @30A with Cord Management	\$5,010.00	2.00	\$10,020.00
CT4011	Single Output, Bollard Unit - 208/240V @30A with Cord Management	\$4,495.00	34.00	\$152,830.00
CPSUPPORT-ACTIVE	Station Activation & Configuration Service. Activate ChargePoint Service Plans. Activate ChargePoint Warranties. Configure Radio Groups. Configure Custom Groups. Configure Connections. Configure Access Control. Configure Visibility Control. Configure Pricing. Configure Reports and Alerts.	\$349.00	36.00	\$12,564.00
CTSW-SAS-COMM-1	1 Year Pre-Paid Commercial Network Service Plan. Designed for employers, businesses and the government, this plan includes 24x7x365 driver support, access control, general reporting, OTA upgrades, payment processing, flexible pricing policies, reservations and more.	\$280.00	36.00	\$10,080.00
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CT4000-ASSURE	Initial 1 year of ChargePoint Assure for the CT4000. Parts and On-Site Labor to repair or replace any manufacturing defect. Includes remote monitoring of station and proactive repair dispatch. A successful Site Validation is required to activate the initial ChargePoint Assure coverage if site prep and station install are not performed by a ChargePoint National O&M Partner.	\$0.00	36.00	\$0.00

**Totals**

Subtotal	\$186,093.00
Tax	\$15,471.00
Shipping and Handling	\$3,960.00

Grand Total

\$205,524.00

**Note: Shipping fees and sales tax (in applicable states) will be applied to this quote at time of invoicing.**

### CT4000 ChargePoint Assure Maintenance Options

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**By signing this quote I hereby acknowledge that I have the authority to purchase the product detailed on this document on behalf of my organization. Furthermore, I agree to the above terms and conditions and that this signed quote shall act as a purchase order.**

**Accepted by:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Delivery: \_\_\_\_\_  
(Date or ASAP Required)

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- Monthly summary and quarterly detailed station performance metrics reports with Assure coverage delivered to you
- Vandalism and Accident labor repair costs coverage with Assure warranty and post warranty maintenance plans

## **ADDITIONAL DOCUMENTATION**

### **Proof of Authority to Install & Operate**

As the developer of the Warm Springs transit station, BART has authority to install charging stations at the site. See Letter of Commitment for more details.

### **Proof of Insurance**

BART will provide appropriate insurance documentation and a W-9, as needed, during the construction phase.