

**Division of Air Quality  
Department of Environmental Quality  
State of Utah  
195 North 1950 West  
Salt Lake City, UT 84116**

TAX ID:

CHARGE TO:	Fund	Agency	Approp	Unit	Function	Prog	Object or BS
	2158	480	2158	2113	<del>21</del> WDTCM		6137

2VWSANDY

DATE	DESCRIPTION	TOTAL
3/16/2020	<p>Payment to Sandy City for reimbursement for purchase of 3 DC Fast Electric Vehilce Supply Equipment units and installation of EVSE units (\$118,982) . This payment comes from the Contract 200572 for Sandy City through the VW Setelment funds.</p> <p>Please note that this payment was part of a larger project and that request is for a portion of the overall cost of the project.</p>	\$118,982.00
		\$118,982.00

Reviewed and Approved By:            Date:           

Mat Carlile *Madeline* 3/23/20  
Andrea Riddle *10*

## Andrea Riddle

3/23/2020

Awardee Name: Sandy City

Award Amount (verify that requested amount does not exceed this amount): \$ 118,982

#### Project Summary

- ❖ Proposed number of EVSEs (type and quantity of each) 3 DC Fast Chargers (ChargePoint Express 250 Model # CPE250C-500-CCS1-CHD)
- ❖ Actual number of EVSEs (type and quantity of each) 3 DC Fast Chargers (ChargePoint Express 250 Model #CPE250C-500-CCS1-CHD)
- ❖ Proposed address of EVSE location(s): 10000 Centennial Pkwy, Sandy, UT 84070
- ❖ Actual address of EVSE location(s): 10000 Centennial Pkwy, Sandy, UT 84070
- ❖ Bid amount: \$118,982
- ❖ Invoice amount:\$118,982 ( see summary of Sandy City VW EVSE Project)

Provide a description of any modifications from the original, proposed project.

- ✓ A site map showing the location of the EVSE funded by this funding assistance;
- ✓ Installation start date of the EVSE project (see Sam email 3/6/20); and
- ✓ The date the EVSE was placed into service(see Sam email 3/6/20);
- ✓ A photo of the EVSE funded by VW funding assistance and placed into service;
- ✓ The estimated hours per day and days per year the EVSE funded by the VW funding assistance will be used.
- ✓ A final purchase invoice for each EVSE, installation, maintenance, and other itemized actual costs in which the was requested in your Funding Assistance Application. The invoice shall include:
  - a. the invoice date;
  - b. the itemized purchase cost for each item or service listed in the competitive bid; and
  - c. the applicant as the purchaser;
- ✓ If costs are higher than the original bid, are the increased costs reasonable?
- ✓ If items purchased are different from competitive bid did entity document that they meet procurement rules for changed items (see Terms and Conditions section II B.);
- ✓ Proof of payment;

Reviewed by

Mat Carlile MC Date 3/10/20

Jeff Robb JR Date 3/10/2020

Mark Berger MB Date 3/23/2020

Andrea Riddle AR Date 3/23/2020

## **Summary of Sandy City VW EVSE Project**

The final purchase invoice for 3 DC Fast Charger is found in National Car Charging Invoice 1308. VW paid for all 3 DC Fast EVSE (ChargePoint Express 250 Model #CPE250C-500-CCS1-CHD) units found on invoice 1308 (\$98,808) and paid a portion of installation (\$20,174) for the 3 DC Fast Chargers found on invoice 1308.

Sam Burge confirmed via email (3/6/20 that three chargers were installed and activated on June 12, 2019 ( See Sam Burge email).

The estimated hours per day and days per year the EVSE funded by the VW funding assistance will be used. (See Sam's email). 2 hours and 24 minutes.



Vw DEQ &lt;vw@utah.gov&gt;

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**VW DEQ Reimbursement Documentation - Sandy City**

1 message

**Samuel Burge** <sburge@sandy.utah.gov>

Fri, Mar 6, 2020 at 9:25 AM

To: Vw DEQ &lt;vw@utah.gov&gt;

Cc: Brian Kelley &lt;bkelley@sandy.utah.gov&gt;, Brett Neumann &lt;bneumann@sandy.utah.gov&gt;, Zach Whalen &lt;zwhalen@sandy.utah.gov&gt;, Kim Bell &lt;kbell@sandy.utah.gov&gt;

Mat,

Attached is the requested documentation for the grant reimbursement. I've included the final purchase invoice from National Car Charging for the EVSE and direct installation costs we requested funding for (see "1 – Final Purchase Invoice") along with a copy of the check issued to pay said invoice (see "2 – Payment Documentation"). I've also included JPEG images of the three ChargePoint Express 250 stations we installed (see "3 – EVSE Photos") along with aerial photos that show the location of the charging stations at Sandy City Hall (see "4 – Site Map").

**The ChargePoint Express 250 were activated for use on June 12<sup>th</sup>, 2019** and have been utilized approx. 2:24:00 (hh:mm:ss), on average, each day. The daily utilization of the stations has varied significantly each month, with a large increase in usage during the end of last year (see "5 – Utilization Estimates"). **We're anticipating that the stations will be utilized, on average, about 2:24:00 each day** based the trend we've seen since their activation.

If there are any questions about the materials provided, please feel free to reach out. Does DEQ have an expected turn-around time for the reimbursement funding to be received?

Thanks,

**Samuel Burge**  
Budget & Management Analyst

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10000 S. Centennial Pkwy. | Sandy, UT 84070  
o: 801.568.6047 | m: 435.849.5924  
sburge@sandy.utah.gov

sandy.utah.gov





**From:** mcarlile@utah.gov <mcarlile@utah.gov> **On Behalf Of** Vw DEQ  
**Sent:** Tuesday, December 17, 2019 8:07 AM  
**Cc:** Lisa Burr <lburr@utah.gov>; Connie Nakahara <cnakahara@agutah.gov>; Mark Berger <mberger@utah.gov>  
**Subject:** VW Funding Received: Please read

We have received the funding from the VW Trustee. If you have completed your project you can now submit a request for reimbursement. To receive reimbursement for eligible costs, submit all necessary documentation. These documents should include the following:

- A final purchase invoice for each EVSE, installation, maintenance, and other itemized actual costs in which the was requested in your Funding Assistance Application. The invoice shall include:
  - a. the invoice date;
  - b. the itemized purchase cost for each item or service listed in the competitive bid; and
  - c. the applicant as the purchaser;
- Proof of payment;
- A photo of the EVSE funded by VW funding assistance and placed into service;
- A site map showing the location of the EVSE funded by this funding assistance; and
- The date the EVSE was placed into service.
- The estimated hours per day an days per year the EVSE funded by the VW funding assistance will be used.

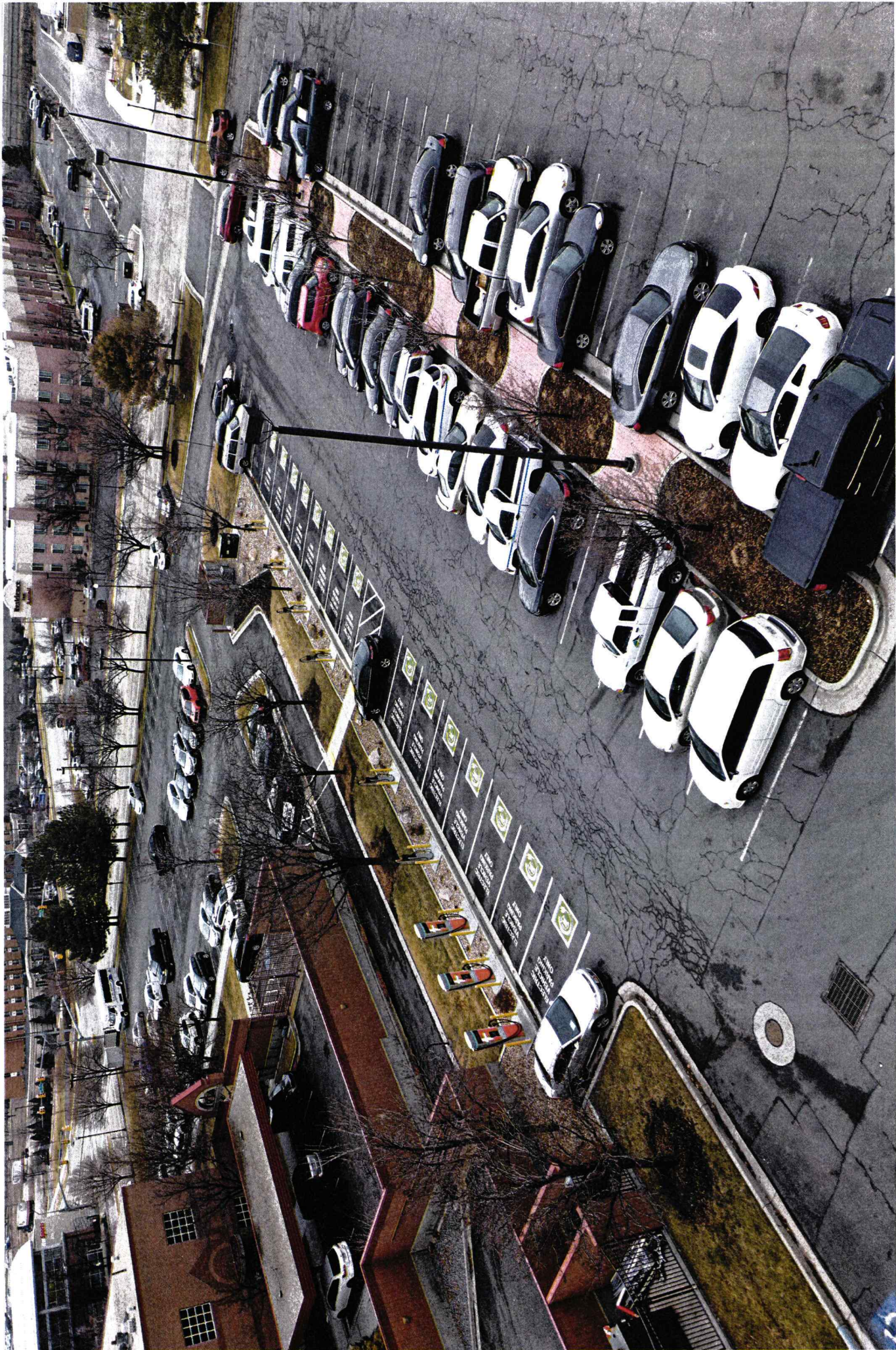
This is also outlined in your terms and conditions please review to ensure that you have all of the necessary items for your project to request reimbursement.

Please let me know if you have any questions. Thank you.



**Sandy City VW Grant Reimbursement.zip**  
24517K



















**TABLE 1. "DAILY UTILIZATION STATISTICS"**

Data collected from ChargePoint on February 9th, 2020.

N = 232 (Days in Service)	SANDY CITY/ CITY HALL DC	SANDY CITY/ CITY HALL DC-1	SANDY CITY/ CITY HALL DC-2	SANDY CITY/ CITY HALL DC-3
<b>DAILY UTILIZATION (HH:MM:SS)</b>				
Days Utilized	232	167	157	119
Total	555:55:40	202:16:18	178:51:52	174:47:30
Min	0:01:24	0:00:12	0:05:00	0:00:03
Mean	2:23:46	1:12:40	1:08:21	1:28:08
Max	8:41:00	5:16:00	3:57:00	5:24:00
St. Dev.	1:45:49	0:58:28	0:50:05	1:20:40
<b>DAILY KILOWATT-HOURS</b>				
Observations	232	167	157	119
Total	15,637.19	5,973.29	5,039.41	4,624.49
Min	0.68	0.00	1.41	0.00
Mean	67.40	35.77	32.10	38.86
Max	211.94	180.24	117.87	147.73
St. Dev.	47.05	29.03	22.57	34.56

**TABLE 2. "INDIVIDUAL SESSION STATISTICS"**

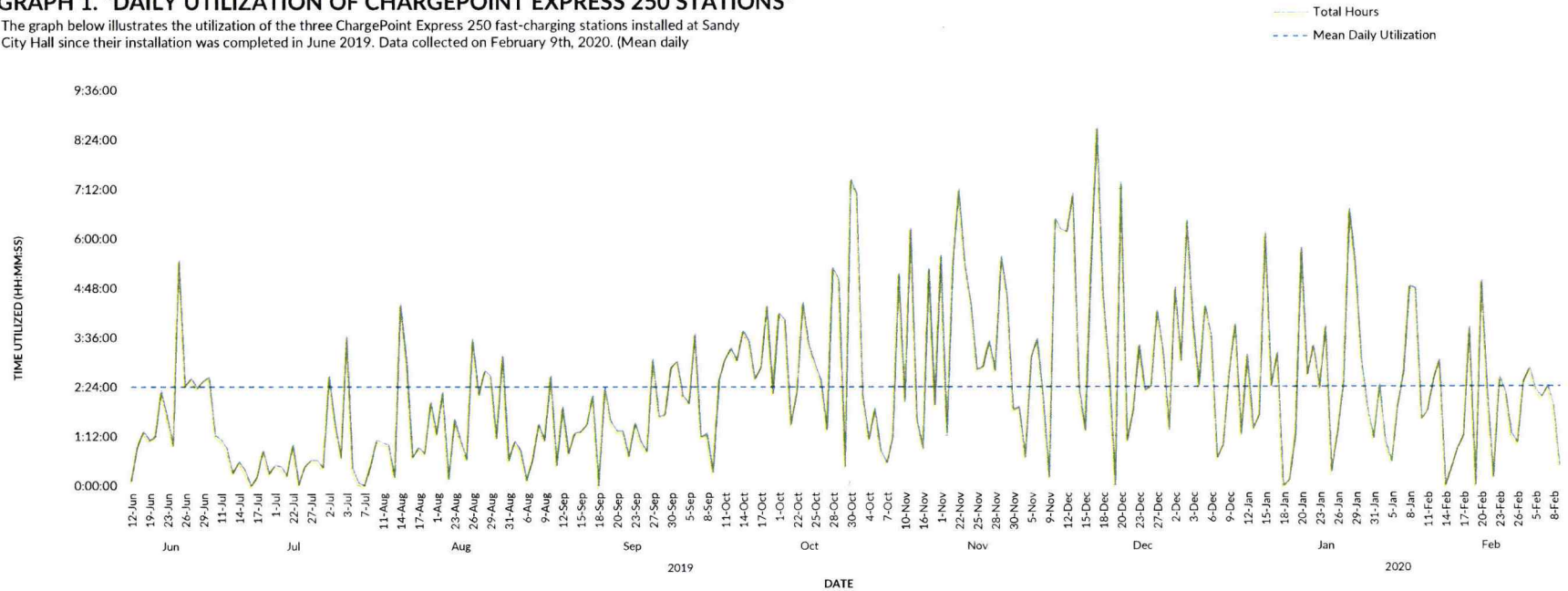
Data collected from ChargePoint on February 9th, 2020.

N = 896 (Charging Sessions)*	SANDY CITY/ CITY HALL DC	SANDY CITY/ CITY HALL DC-1	SANDY CITY/ CITY HALL DC-2	SANDY CITY/ CITY HALL DC-3
<b>DAILY UTILIZATION (HH:MM:SS)</b>				
Charging Sessions	896	322	308	266
Total	555:55:40	202:16:18	178:51:52	174:47:30
Min	0:00:01	0:00:01	0:00:06	0:00:02
Mean	0:37:14	0:37:41	0:34:51	0:39:26
Max	2:29:00	2:13:28	2:18:18	2:29:00
St. Dev.	0:29:09	0:26:04	0:26:02	0:35:16
<b>DAILY KILOWATT-HOURS</b>				
Observations	896	322	308	266
Total	15,637.19	5,973.29	5,039.41	4,624.49
Min	0.00	0.00	0.18	0.07
Mean	67.40	18.67	16.47	18.50
Max	79.71	79.71	59.39	55.65
St. Dev.	13.52	13.19	12.11	15.30

\*Note: Some observations were "empty" meaning that, while an interaction with the EVSE was recorded, there was no charging time or kilowatt-hours used. These were excluded from the analysis.

**GRAPH 1. "DAILY UTILIZATION OF CHARGEPOINT EXPRESS 250 STATIONS"**

The graph below illustrates the utilization of the three ChargePoint Express 250 fast-charging stations installed at Sandy City Hall since their installation was completed in June 2019. Data collected on February 9th, 2020. (Mean daily)





**National Car Charging LLC**

209 Kalamath St., Suite 3  
Denver, CO 80223  
(866) 996-6387  
info@nationalcarcharging.com  
www.nationalcarcharging.com

**BILL TO**

David K Goldhardt  
City of Sandy  
10000 S. Centennial Pkwy.  
Sandy, UT 84070 United  
States

**SHIP TO**

David K Goldhardt  
City of Sandy  
10000 S. Centennial Pkwy.  
Sandy, UT 84070 United  
States

**INVOICE #** 1308**DATE** 05/22/2019**DUE DATE** 06/21/2019**TERMS** Net 30

SHIP DATE	SHIP VIA	TRACKING NO.	P.O. NUMBER	SALES REP
01/31/2019	FedEx Freight	4491261342 & 4180433390	Contract	JDB

ACTIVITY	QTY	RATE	AMOUNT
<b>CT4021-GW1</b> ChargePoint dual bollard gateway with cord management	2	5,408.00	10,816.00
<b>CT4021</b> ChargePoint dual bollard non-gateway with cord management	6	5,021.00	30,126.00
<b>CPCLD-COMMERCIAL-1</b> Plan includes Secure Network Connection, On-going Station Software updates, Station Inventory, 24x7 Driver Support, Host Support, Session Data and Analytics, Fleet Vehicle Management and Integration, Fleet Access Control, Valet Dashboard, Power Management (Circuit, Panel, Site Sharing), Scheduled Charging, Driver Access Control, Pricing and Automatic Funds Collection, Waitlist, Videos (on supported hardware). Price is per port.	16	280.00	4,480.00
<b>Self Validation</b> AlphaCharge or their designate will validate the installation - otherwise \$599 per gateway or DCFC	5	0.00	0.00
<b>CT4000-ASSURE1</b> 12-months of ChargePoint parts & labor coverage including active monitoring - Free with Site Validation	8	0.00	0.00
<b>CPE250C-500-CCS1-CHD</b> CP Express 250 Station (50 kW) includes Express 250 Station (US version), 2x Power Modules, 1x CCS1 cable, 1x CHAdeMO cable	3	32,936.00	98,808.00
<b>CPCLD-COMMERCIAL-DC-1</b> 1yr Prepaid, DC, Commercial Cloud Plan.	3	560.00	1,680.00
<b>CPE250-CMT</b> Concrete Mounting Template for Express DC Stations. Base Mounting template designed for CP250 and Express	3	799.00	2,397.00

ChargePoint Installers **MUST** be ChargePoint certified at  
[www.chargepointuniversity.com](http://www.chargepointuniversity.com).  
Warranty is **VOIDED** If no certification.



ACTIVITY	QTY	RATE	AMOUNT
Plus Stations. This template is used to align conduits and mounting bolts. This template is to be installed into the foundation before the concrete pad is poured. The CPE250-CMT and CPE200-Adapter are required for CPE200 installations that have a planned swap for a CPE250.			
<b>CPE250C-ASSURE</b>	3	0.00	0.00
Initial 1 year of ChargePoint Assure for the CPE250 station with successful site validation.			
<b>Activation</b>	11	0.00	0.00
Activation on the ChargePoint network - Normally \$349 each			
<b>Installation Labor</b>	0.7601435	50,180.00	38,144.00
Includes trenching, completion of all electrical connections, reconfiguring service panel as necessary. Installation of pedestal to mount station - City Hall			
<b>Installation Labor</b>	0.80	21,700.00	17,360.00
Includes trenching, completion of all electrical connections, reconfiguring service panel as necessary. Installation of pedestal to mount station - City Hall Change Orders 1 & 2			
<b>Installation Labor</b>	0	15,750.00	0.00
Includes trenching, completion of all electrical connections, reconfiguring service panel as necessary. Installation of pedestal to mount station - Parks & Rec HQ			
<b>Installation Labor</b>	0.2529522	42,510.00	10,753.00
Includes trenching, completion of all electrical connections, reconfiguring service panel as necessary. Installation of pedestal to mount station - Sandy Amphitheater			
<b>Installation Labor</b>	0	33,540.00	0.00
Includes trenching, completion of all electrical connections, reconfiguring service panel as necessary. Installation of pedestal to mount station - Alta Canyon Sports Center			
<b>Installation Labor</b>	0	29,920.00	0.00
Includes trenching, completion of all electrical connections, reconfiguring service panel as necessary. Installation of pedestal to mount station - River Oaks Golf Course			
<b>Installation Labor</b>	0.90	7,580.00	6,822.00
Includes trenching, completion of all electrical connections, reconfiguring service panel as necessary. Installation of pedestal to mount station - Public Works			

Terms and Conditions:

- 1) All invoices are to be paid Net 30 unless otherwise noted above or agreed to in writing. Invoices not paid by the due date are subject to penalty of 1.5% monthly.
- 2) Invoice payment terms are based on ship date, not installation date. Terms are NOT "paid when paid."
- 3) Unopened items are subject to a 20% restocking fee. Opened are subject to a 50% restocking fee if operational, undamaged, and complete with all

BALANCE DUE

**\$221,386.00**

ChargePoint Installers MUST be ChargePoint certified at  
[www.chargepointuniversity.com](http://www.chargepointuniversity.com).  
Warranty is VOIDED If no certification.



original contents. Incomplete items are not available for return.

4) Prices do not include installation unless specifically identified.

5) Customer is responsible for ensuring adequate cellular coverage for networked units.

6) All shipping, unless otherwise agreed to by the Parties in writing, shall be FOB Origin. Customer has the right to make their own shipping arrangements.

7) Anchor bolts not included unless specified above.



31-1  
1240

Check Date	Check No.	Amount
05/30/2019	313220	\$221,386.00

**Void After 6 Months**

**PAY**

\*\*\*TWO HUNDRED TWENTY ONE THOUSAND THREE HUNDRED EIGHTY SIX DOLLARS AND  
00/100

TO THE  
ORDER  
OF

NATIONAL CAR CHARGING LLC  
209 KALAMATH ST, STE. 3  
DENVER, CO 80223

Julen R. Fuchs  
74 Bld  
Authorized Signature

|| 3 1 3 2 2 0 || : 1 2 4 0 0 0 5 4 : 0 1 9 0 2 7 1 4 3 ||

**Vendor No:** 56407 NATIONAL CAR CHARGING LLC

**Check Date:** 05/30/2019

**Check No:** 313220

Vendor Invoice	Date	Description	Amount Invoiced	Discount	Amount Paid
1308	05/22/2019	INSTALLATION OF CAR CHARGING STATIONS	221,386.00		221,386.00

TOTAL: \$221,386.00