

## LEGEND

	AC POWER FEED FROM DISTRIBUTION		4G LTE CELLULAR CONNECTION
	(3) CONDUCTORS, MAX 1/0 AWG		WIFI CONNECTION
	ETHERNET CONNECTION		CHARGEPOINT CLOUD SERVICES
	SAE J1772 CONNECTOR		SAE J3400 (NACS) CONNECTOR

## GENERAL NOTES

- ALL OVERCURRENT PROTECTION DEVICES, CONDUCTORS, AND CONDUIT SIZES PROVIDED ON THIS DRAWING ARE PROVIDED BY CHARGEPOINT FOR REFERENCE ONLY. SITE SPECIFIC WIRE SIZING SHALL BE PERFORMED BY THE INSTALLATION CONTRACTOR TAKING INTO ACCOUNT LOCAL CONDITIONS AND CODES / STANDARDS.
- CHARGEPOINT PRODUCTS TO BE INSTALLED BY A LICENSED CONTRACTOR WITH CHARGEPOINT INSTALLER CERTIFICATIONS.
- FOR MORE INFORMATION ABOUT CHARGEPOINT'S CP6000 LEVEL 2 AC CHARGER, REFER TO THE FOLLOWING LINKS:
  - CP6000 DATASHEET: [https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cp6000/cp6000-ds-commercial-na\).pdf](https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cp6000/cp6000-ds-commercial-na).pdf)
  - CP6000 SITE DESIGN GUIDE: [https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cp6000/cp6000-sdg-na\).pdf](https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cp6000/cp6000-sdg-na).pdf)
  - INSTALLATION GUIDES AVAILABLE TO CERTIFIED INSTALLERS: <https://www.chargepoint.com/partners/training-certification>

## SOFTWARE & SERVICES

### CHARGEPOINT CLOUD PLANS

ALL CP6000 STATIONS REQUIRE AN ACTIVE CHARGEPOINT CLOUD PLAN. EITHER A COMMERCIAL CLOUD PLAN OR AN ENTERPRISE CLOUD PLAN IS REQUIRED PER CHARGING PORT.

FOR MORE INFORMATION ON CLOUD PLAN FEATURES, SEE TABLE BELOW AND VISIT:  
<https://www.chargepoint.com/download-file/cp-cloud-plans-comparison-matrix-commercial>

COMMERCIAL CLOUD PLAN	RECOMMENDED	ENTERPRISE CLOUD PLAN
• ORDER CODE: <b>CPCLD-COMMERCIAL-n*</b>		• ORDER CODE: <b>CPCLD-ENTERPRISE-n*</b>
*REPLACE "n" WITH DESIRED YEARS OF SERVICE (1, 2, 3, 4, OR 5 YEARS)		*REPLACE "n" WITH DESIRED YEARS OF SERVICE (1, 2, 3, 4, OR 5 YEARS)

CATEGORY	PLAN FEATURE	COMMERCIAL PLAN	ENTERPRISE PLAN
GENERAL SUPPORT	4G LTE CELLULAR NETWORK CONNECTION	✓	✓
	BASIC API ACCESS	✓	✓
	24/7 SUPPORT FOR STATION HOSTS & DRIVERS	✓	✓
STATION MANAGEMENT	STATION SOFTWARE UPDATES	✓	✓
	REAL-TIME STATION STATUS	✓	✓
	AGGREGATED REPORTING & ANALYTICS	✓	✓
	USER MANAGEMENT & ADMINISTRATIVE TOOLS	✓	✓
	VALET DASHBOARD	✓	✓
	ON-STATION VIDEO UPLOADS	✓	✓
BASIC POWER MANAGEMENT	POWER SHARING AT CIRCUIT, PANEL, & SITE LEVELS	✓	✓
	CABLE SHARING (AC ONLY)	✓	✓
	FIXED POWER DERATING (AC ONLY)	✓	✓
	HIERARCHICAL POWER SHARING	✓	✓
DRIVER MANAGEMENT	DRIVER MOBILE APP & WEB PORTAL	✓	✓
	ACCESS CONTROL	✓	✓
	PRICING CONTROL	✓	✓
	CONNECTIONS	✓	✓
	NOTIFY ME WHEN AVAILABLE	✓	✓
	WAITLIST	✓	✓
	SHOW STATIONS ON CHARGEPOINT NETWORK MAP	✓	✓
	EV CHARGING NETWORK ROAMING	✓	✓
	TAP TO CHARGE	✓	✓
ADVANCED POWER MANAGEMENT	API SUPPORTING DEMAND MANAGEMENT		✓
	TIME OF USE POWER SHARING		✓
	REPORTING ON METER DATA AND ADVANCED ANALYTICS		✓

## INSTALLATION & ACTIVATION

INSTALLATION	REQUIRED	ACTIVATION	REQUIRED
INSTALLATION TO BE COMPLETED BY AN ENTITY HOLDING THE CP6000 INSTALLATION MICROCREDENTIAL* FROM CHARGEPOINT UNIVERSITY.		• ORDER CODE: <b>CP-ACTIVATION</b>	
		• REQUIRED FOR ALL CP6000 STATIONS.	
		• INCLUDES ACTIVATION OF STATIONS BY A CHARGEPOINT REMOTE SERVICES TECHNICIAN.	

\* CHARGEPOINT RECOMMENDS SELECTING A CHARGEPOINT AC CERTIFIED INSTALLER.

## WARRANTIES

CHARGEPOINT ASSURE®	RECOMMENDED
• ORDER CODE: <b>CP6000-ASSURE-n*</b>	
• INCLUDES PARTS COSTS AND LABOR COSTS FOR ISSUES COVERED UNDER WARRANTY	
• INCLUDES LABOR AND TRAVEL COVERAGE TO REPAIR ISSUES NOT COVERED UNDER WARRANTY, SUCH AS VANDALISM AND ACCIDENTS.	
• INCLUDES COORDINATION FOR SERVICE VISITS BY A CHARGEPOINT TECHNICAL SUPPORT ENGINEER.	
• VISIT <a href="https://www.chargepoint.com/download-file/chargepoint-assure-brochure-us">https://www.chargepoint.com/download-file/chargepoint-assure-brochure-us</a> FOR MORE INFORMATION	
*REPLACE "n" WITH DESIRED YEARS OF SERVICE (1, 2, 3, 4, OR 5 YEARS)	

STANDARD WARRANTY
• 2 YEARS, PARTS ONLY; STATION MUST BE INSTALLED BY A CHARGEPOINT CERTIFIED TECHNICIAN.

## TYPICAL DAY: WORKPLACE CHARGING 4 HOUR SESSIONS

### ASSUMPTIONS

- ALL PORTS ARE OCCUPIED AND ACTIVELY CHARGING.
- UTILIZE WAITLIST FEATURE TO TURNOVER SPOTS AFTER SESSION COMPLETION WITH MOVE INCENTIVES.
- MINIMUM OUTPUT PER PORT NOT TO DROP BELOW 16A.
- (5) PORTS PER 100A CIRCUIT (80A CONTINUOUS LOAD).

### CHARGEPOINT WAITLIST

- INCLUDED WITH ALL CHARGEPOINT CLOUD PLANS
- WHEN ALL CHARGING SPOTS AT A LOCATION ARE BUSY, DRIVERS CAN "GET IN LINE" THROUGH THE CHARGEPOINT MOBILE APP.
- DRIVERS ARE NOTIFIED WHEN A CHARGING SPOT BECOMES AVAILABLE, AND GIVES THEM TIME TO GO PLUG IN.
- SPOTS OFFERED ON A FIRST-COME, FIRST SERVED BASIS - NO ONE SKIPS THE LINE.
- CAN INCREASE STATION UTILIZATION BY UP TO 45%.

### MOVE INCENTIVES

- OPERATORS SET TIME TO MOVE POLICIES, WHICH SET THE AMOUNT OF TIME DRIVERS HAVE TO MOVE THEIR VEHICLE AFTER BEING NOTIFIED THEIR SESSION HAS ENDED.
- CHARGEPOINT WILL AUTOMATICALLY RECORD A "FAILURE TO MOVE" EVENT IN THE SOFTWARE - NO ADDITIONAL ACTION IS TAKEN BY CHARGEPOINT.
- OPERATORS MAY SET POLICIES CHARGING DRIVERS OVERSTAY FEES IF THEY DO NOT MOVE THEIR VEHICLE WITHIN THE TIME TO MOVE WINDOW.

### SUMMARY

UP TO (10) CARS CAN RECEIVE ~40 MILES OF ADDED RANGE EACH IN A TYPICAL WORKDAY, PER 100A CIRCUIT.

ESTIMATED RANGE PER HOUR	10 MILES
DWELL TIME	4 HOURS
AVERAGE RANGE ADDED PER SESSION	40 MILES

## CHARGEPOINT POWER MANAGEMENT

### HIERARCHICAL POWER MANAGEMENT

- ENABLES OVERSUBSCRIPTION OF TRANSFORMERS, PANELS, AND / OR CIRCUITS.
- ELIMINATES NEED FOR EXTERNAL LOAD MANAGEMENT DEVICES IN UPSTREAM ELECTRICAL INFRASTRUCTURE.
- MEETS STANDARDS SET BY NEC 625.42 FOR LOAD MANAGEMENT

CAN INCLUDE ANY OR ALL OF THE FOLLOWING:



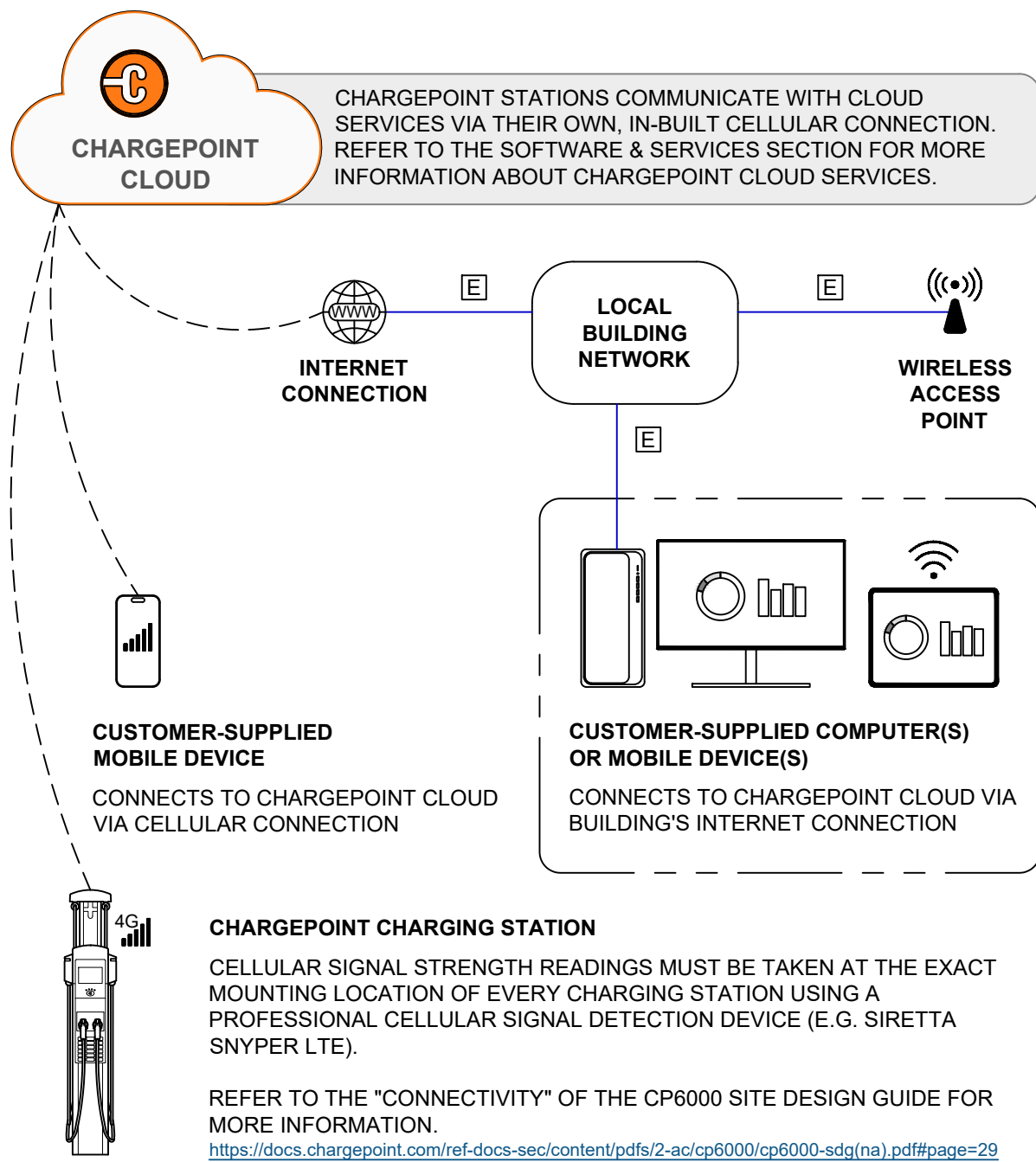
### RECOMMENDED EQUIPMENT SIZES

RECOMMENDED SITE TRANSFORMER SIZING WITH SITE-LEVEL POWER MANAGEMENT	
TRANSFORMER RATING (KVA)	MAX QTY OF PORTS
30	9
45	13
75	22
112.5	33
150	45
225	67
300	90
500	150
750	225

RECOMMENDED MAIN BREAKER SIZING WITH PANEL-LEVEL POWER MANAGEMENT				
PANEL VOLTAGE:		208 V / 120 V		
BRANCH CIRCUIT BREAKER (PER PORT):		2-POLE, 100A		
MCB RATING (A)	MAX QTY OF PORTS	MAX AMPS PER PORT	MIN AMPS PER PORT	
125	10	80 A	16 A	
200	17			
225	19			
400	34			
600	51	80 A	16 A	
800	68			

TRANSFORMER AND BREAKER SIZES SHOWN IN ABOVE TABLES ARE RECOMMENDATIONS. E.E. AND/OR E.C. TO VERIFY ELECTRICAL SPECIFICATIONS MEET CODE REQUIREMENTS. RECOMMENDATIONS ABOVE MAINTAIN A MINIMUM OUTPUT OF > 3.3 kW PER PORT @ 208 V~.

## CHARGEPOINT NETWORK DIAGRAM



## TYPICAL DAY: WORKPLACE CHARGING 8 HOUR SESSIONS

### ASSUMPTIONS

- ALL PORTS ARE OCCUPIED AND ACTIVELY CHARGING.
- MINIMUM OUTPUT PER PORT NOT TO DROP BELOW 16A.
- (5) PORTS PER 100A CIRCUIT (80A CONTINUOUS LOAD).

### SUMMARY

UP TO (8) CARS CAN RECEIVE ~80 MILES OF ADDED RANGE EACH IN A TYPICAL WORKDAY, PER 100A CIRCUIT.

ESTIMATED RANGE PER HOUR	10 MILES
DWELL TIME	8 HOURS
AVERAGE RANGE ADDED PER SESSION	80 MILES

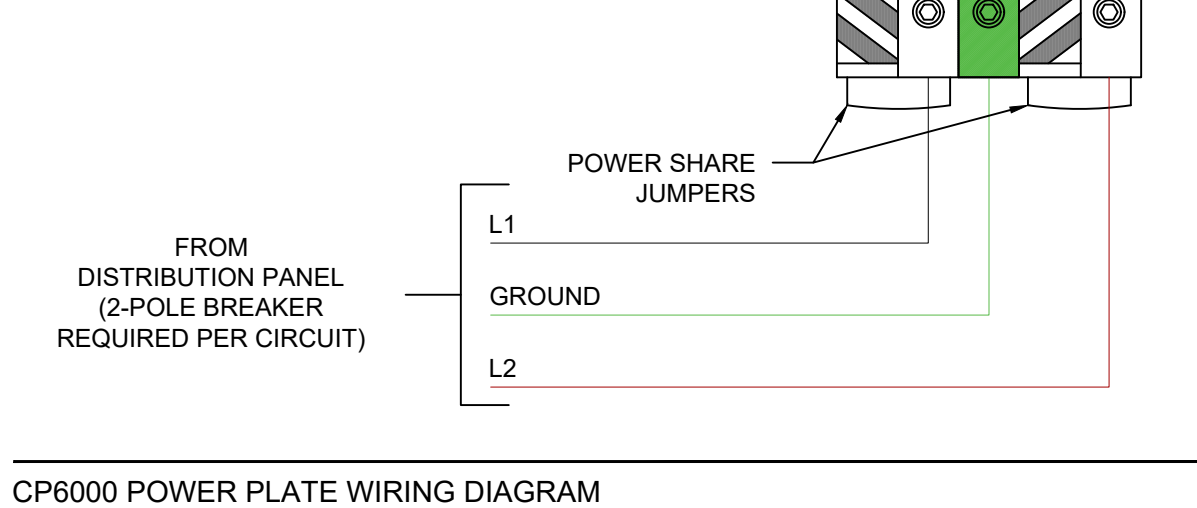
ESTIMATED RANGE PER HOUR (RPH) SHARED CIRCUIT - CIRCUIT LEVEL POWER MANAGEMENT REQUIRED					
PANEL VOLTAGE: 208 V / 120 V, 3P4W					
BRANCH CIRCUIT BREAKER: 2-POLE, 100 A					
PORTS IN USE	OUTPUT PER PORT A	RPH PER PORT (MILES)	MPDAY <sub>4</sub>	MPDAY <sub>8</sub>	
1	80	16.64	50	200	399
2	40	8.32	25	100	200
3	27	5.55	17	67	133
4	20	4.16	12	50	100
5	16	3.33	10	40	80

MPDAY<sub>4</sub> = RANGE ADDED IN 4 HOURS  
MPDAY<sub>8</sub> = RANGE ADDED IN 8 HOURS

### NOTES

- ESTIMATED RPH BASED ON AVG. PASSENGER CAR EFFICIENCY (~3 MILES / KWH); ACTUAL RPH MAY VARY BASED ON VEHICLE MAKE AND MODEL.
- ADDITIONAL REDUCTIONS IN RPH MAY OCCUR DUE TO PANEL AND SITE-LEVEL POWER MANAGEMENT.
- MPDAY<sub>4</sub> AND MPDAY<sub>8</sub> ARE CALCULATED AS THE WORST CASE SCENARIO, ASSUMING ALL PORTS ARE CONNECTED AND ACTIVELY CHARGING.

### SINGLE CIRCUIT, DUAL OR SINGLE PORT



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CONCEPT DRAWING  
NOT FOR CONSTRUCTION

DRAWING TITLE:  
**CHARGEPOINT CP6000**

TYPICAL 80A WORKPLACE  
DESIGN - SINGLE LINE DIAGRAM

DOCUMENT #: 32106004e  
DATE: 08.04.25  
DRAWN BY: CMT  
SCALE: N.T.S.

SHEET:

EV501