

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>
 - CP6000 SITE DESIGN GUIDE: <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: CPCLD-COMMERCIAL-n*		ORDER CODE: CPCLD-ENTERPRISE-n*
*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

INSTALLATION TO BE COMPLETED BY AN ENTITY HOLDING THE CP6000 INSTALLATION MICROCREDENTIAL* FROM CHARGEPOINT UNIVERSITY.

ACTIVATION REQUIRED

- ORDER CODE: CP-ACTIVATION
- 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: CP6000-ASSURE-n*
- 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 <https://www.chargepoint.com/download-file/chargepoint-assure-brochure-us> 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.

CONCEPT DRAWING
NOT FOR CONSTRUCTION

DRAWING TITLE:
CHARGEPOINT CP6000 50A | PEDESTAL MOUNT

TYPICAL SINGLE LINE DIAGRAM

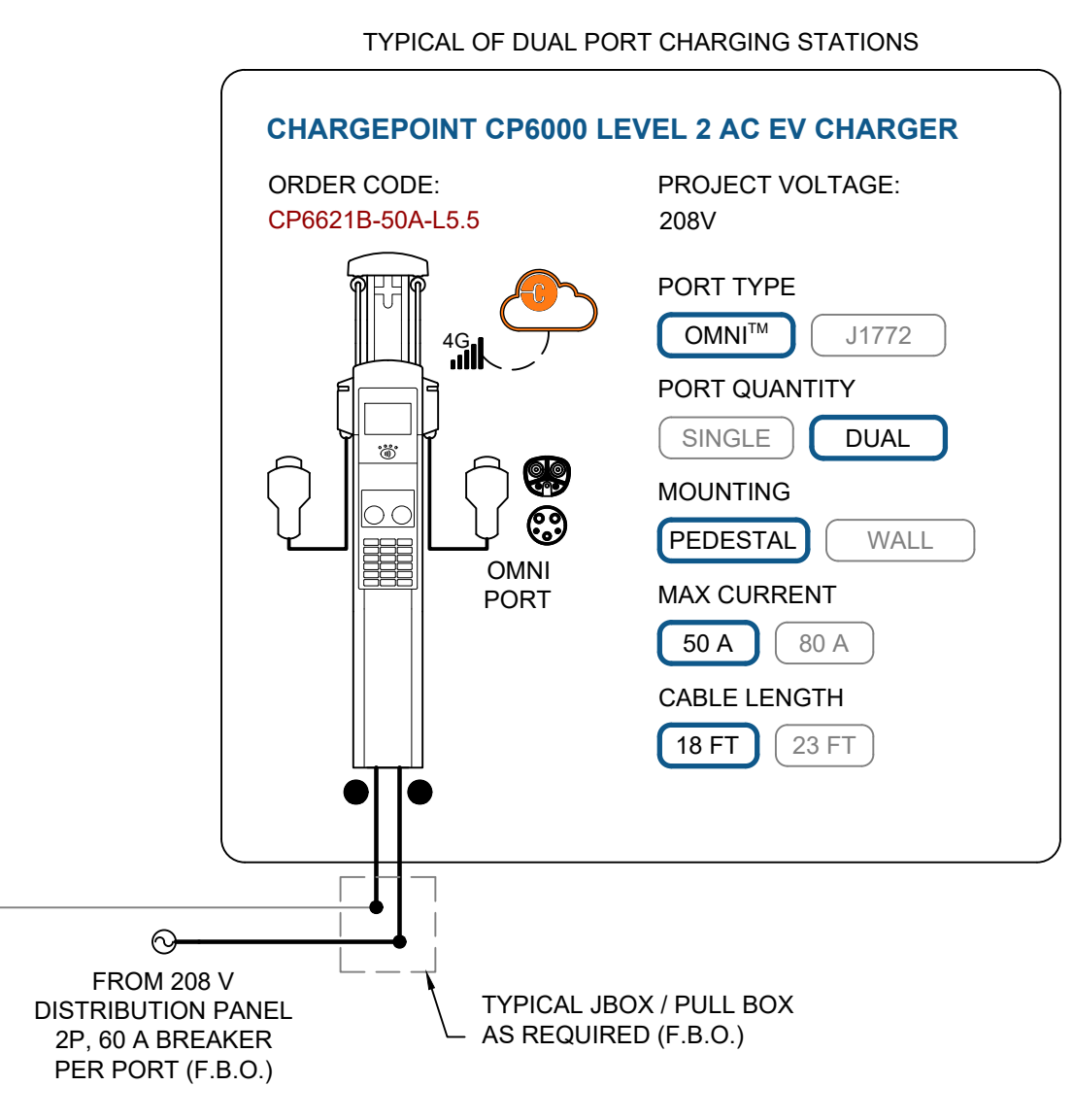
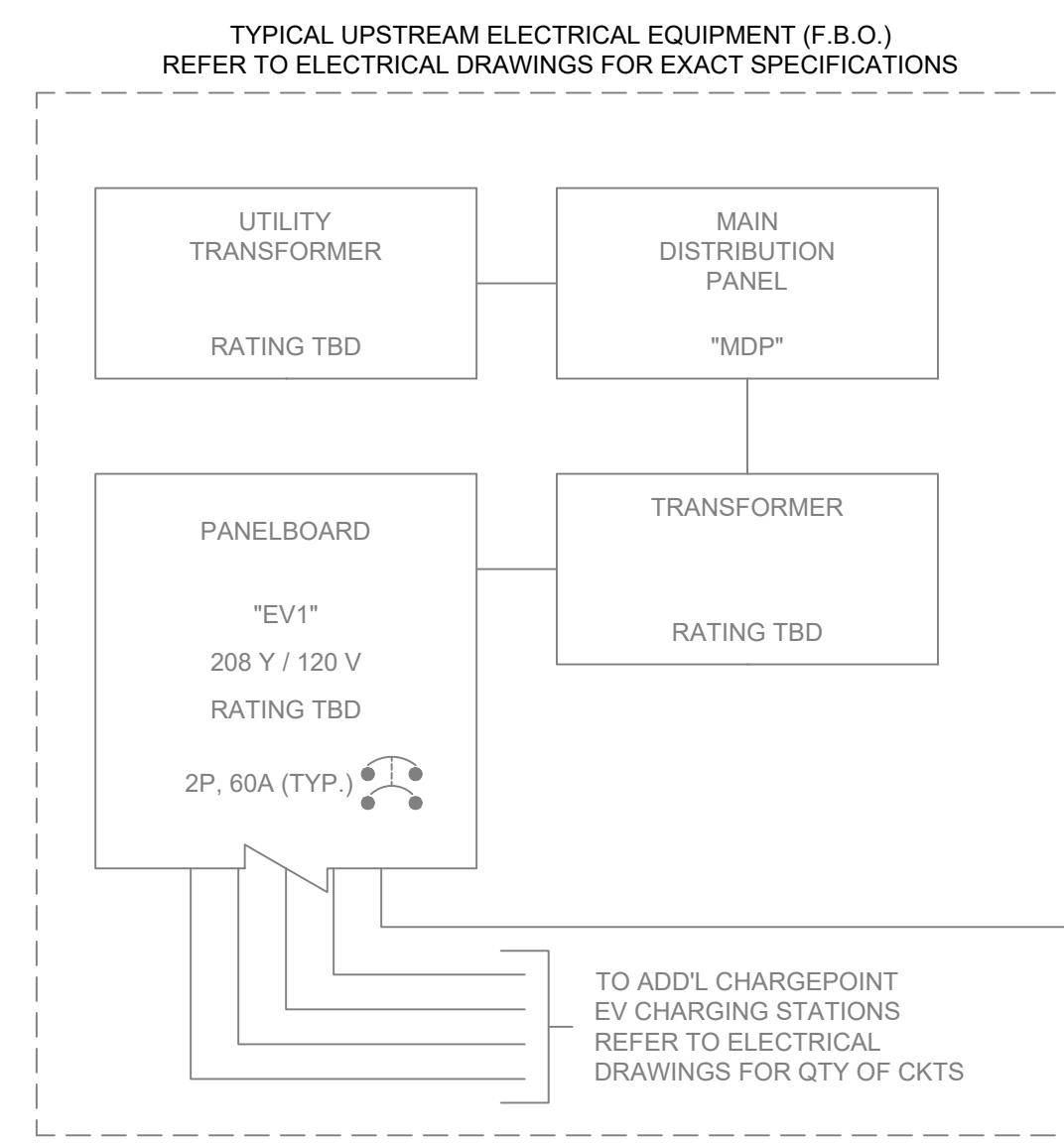
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DATE: 08.04.25
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SCALE: N.T.S.

SHEET:

EV501

TYPICAL LEVEL 2 EV CHARGING STATION - DEDICATED CIRCUIT PER PORT

CIRCUIT-LEVEL POWER MANAGEMENT NOT REQUIRED
PANEL AND/OR SITE-LEVEL POWER MANAGEMENT MAY BE REQUIRED



ESTIMATED RANGE PER HOUR (RPH)
DEDICATED CIRCUIT PER CHARGING PORT

PANEL VOLTAGE: 208 V / 120 V, 3P4W
BRANCH CIRCUIT BREAKER: 2-POLE, 60 A

PORTS IN USE	OUTPUT PER PORT A	RPH PER PORT (MILES)	MPDAY ₄	MPDAY ₈
1	48	9.98	30	120
2	24	4.99	15	60

MPDAY₄ = RANGE ADDED IN 4 HOURS
MPDAY₈ = RANGE ADDED IN 8 HOURS

NOTES

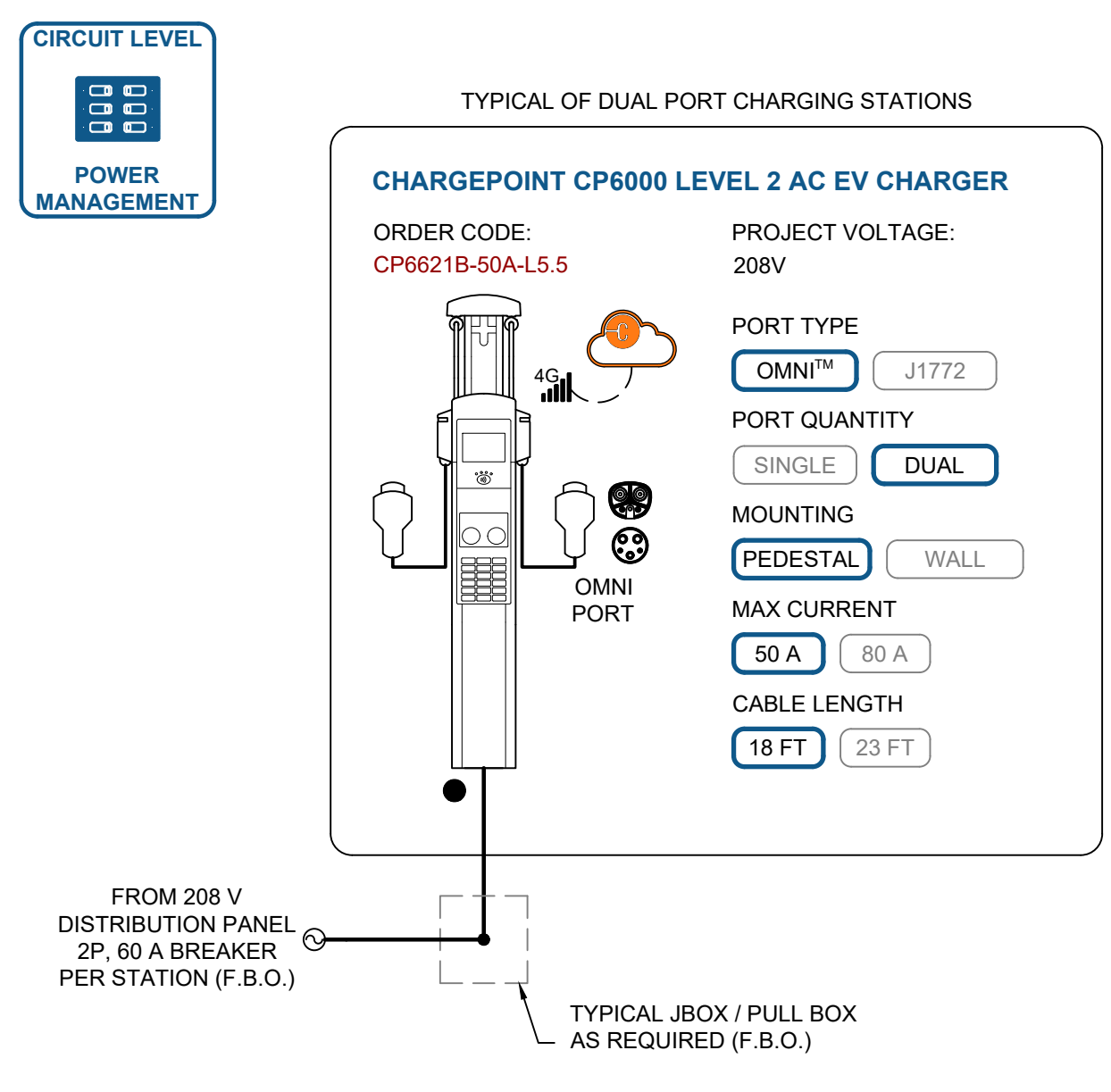
- ESTIMATED RPH BASED ON AVG. PASSENGER CAR EFFICIENCY (~3 MILES / KWH). ACTUAL RPH MAY VARY BASED ON VEHICLE MAKE AND MODEL.
- ADDITIONAL REDUCTIONS IN RPH MAY OCCUR DUE TO PANEL AND SITE-LEVEL POWER MANAGEMENT.
- MPDAY₄ AND MPDAY₈ ARE CALCULATED AS THE WORST CASE SCENARIO, ASSUMING ALL PORTS ARE CONNECTED AND ACTIVELY CHARGING.

QUOTATION/PRICING REQUESTS:
CONTRACTORS TO CONTACT ELECTRICAL DISTRIBUTORS.

OTHER INQUIRIES:
CONTACT CHARGEPOINT DIRECTLY VIA EMAIL AT SPECIFICATIONS@CHARGEPOINT.COM
OR VISIT CHARGEPOINT'S HOMEPAGE AT [HTTPS://WWW.CHARGEPOINT.COM/#CHPT](https://www.chargepoint.com/#CHPT)

TYPICAL LEVEL 2 EV CHARGING STATION - DEDICATED CIRCUIT PER STATION

REQUIRES CIRCUIT-LEVEL POWER MANAGEMENT VIA CHARGEPOINT SOFTWARE PER NEC 625.42



ESTIMATED RANGE PER HOUR (RPH)
SHARED CIRCUIT - CIRCUIT LEVEL POWER MANAGEMENT REQUIRED

PANEL VOLTAGE: 208 V / 120 V, 3P4W
BRANCH CIRCUIT BREAKER: 2-POLE, 60 A

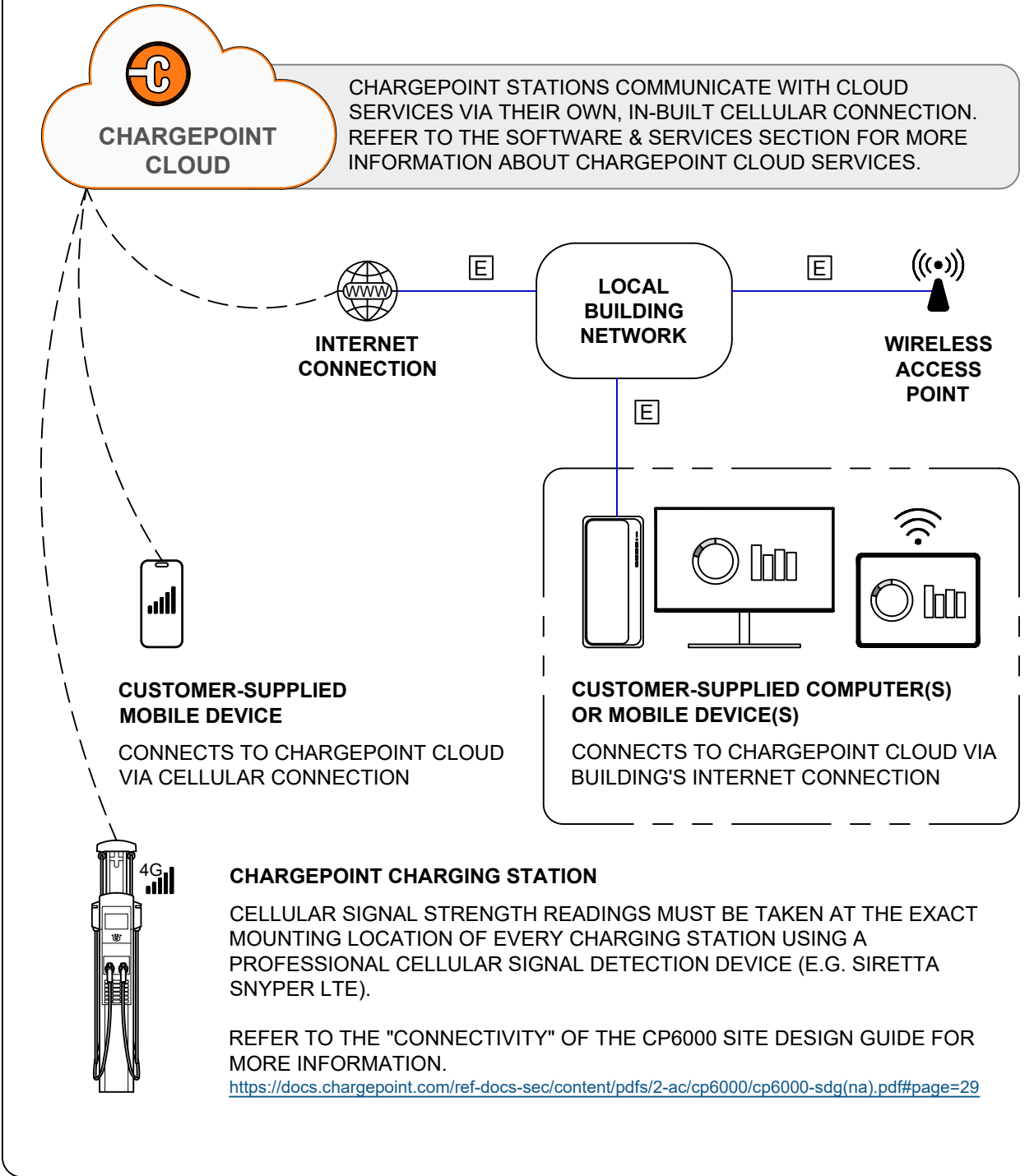
PORTS IN USE	OUTPUT PER PORT A	RPH PER PORT (MILES)	MPDAY ₄	MPDAY ₈
1	48	9.98	30	120
2	24	4.99	15	60

MPDAY₄ = RANGE ADDED IN 4 HOURS
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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.
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CHARGEPOINT NETWORK DIAGRAM



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:

- SITE LEVEL POWER MANAGEMENT
- PANEL LEVEL POWER MANAGEMENT
- CIRCUIT LEVEL POWER MANAGEMENT

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, 60A		
MCB RATING (A)	MAX QTY OF PORTS	MAX AMPS PER PORT	MIN AMPS PER PORT	
125	10	48 A	16 A	
200	17			
225	19			
400	34			
600	51			
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--.

