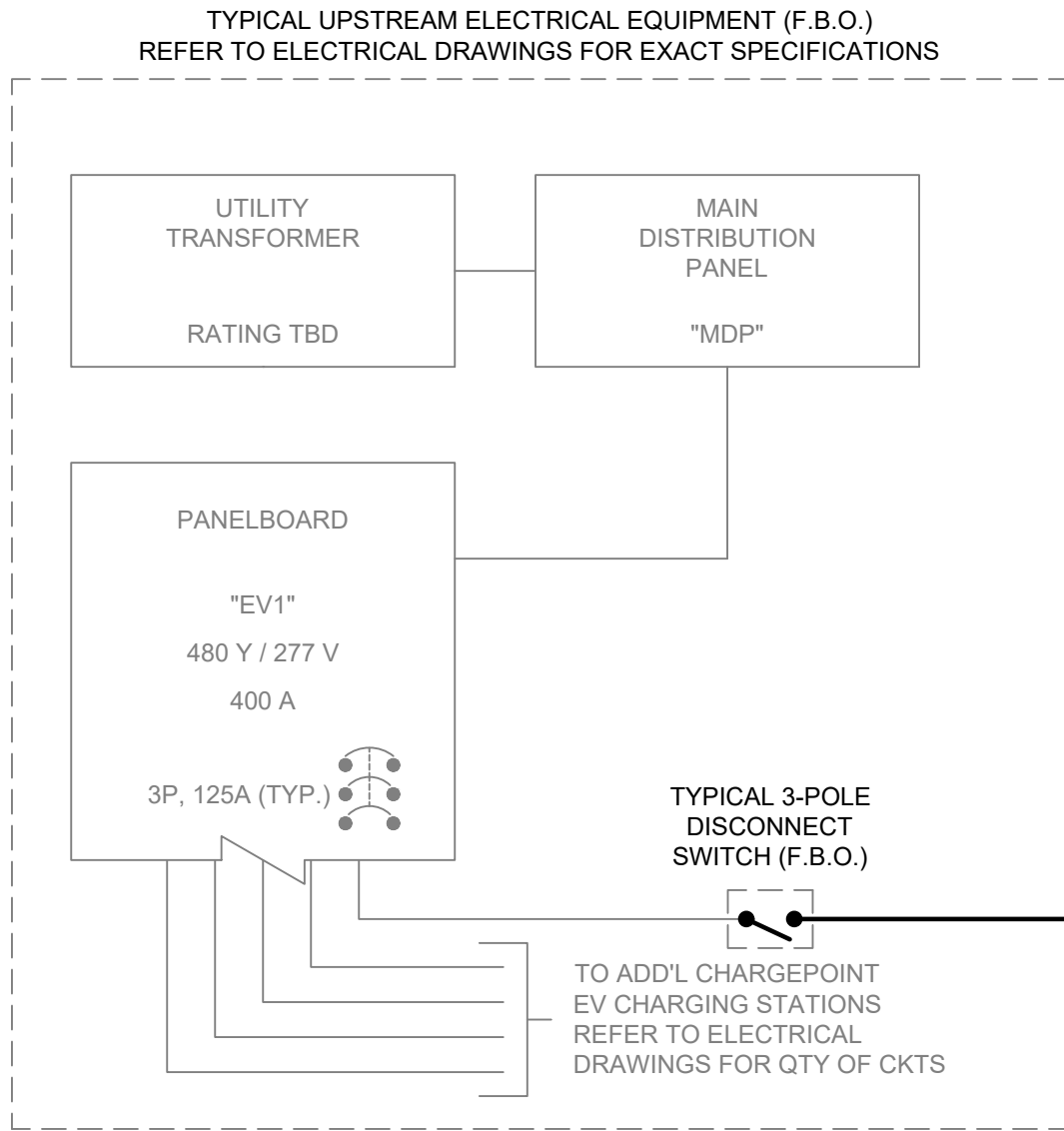
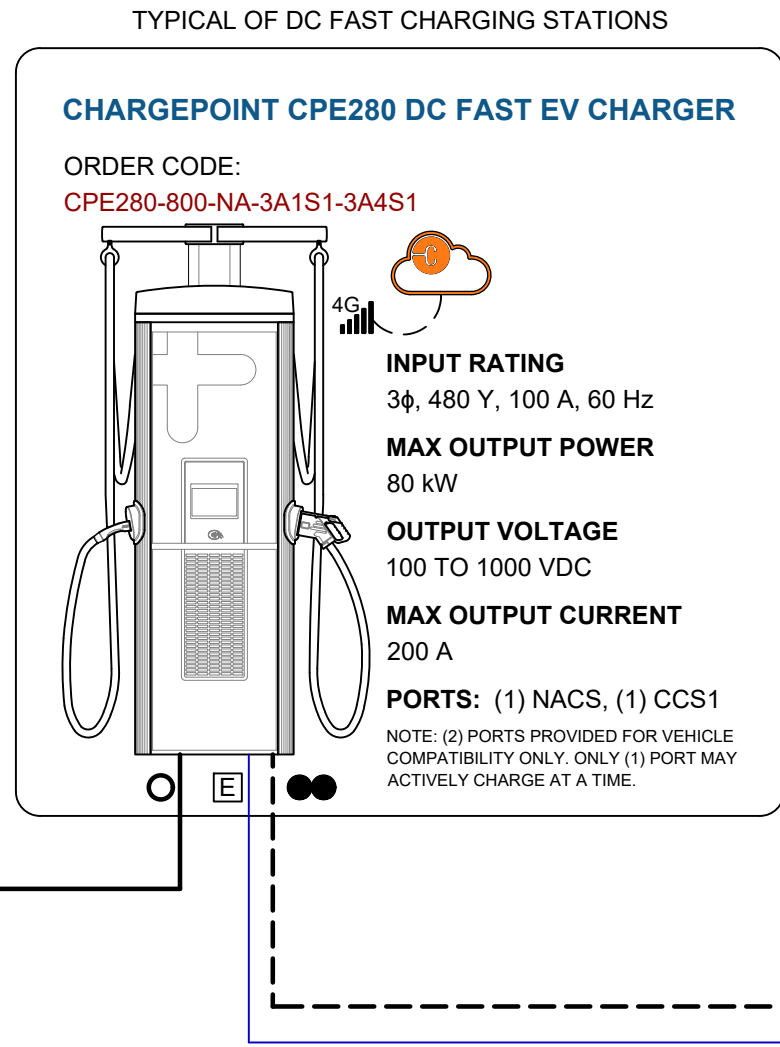


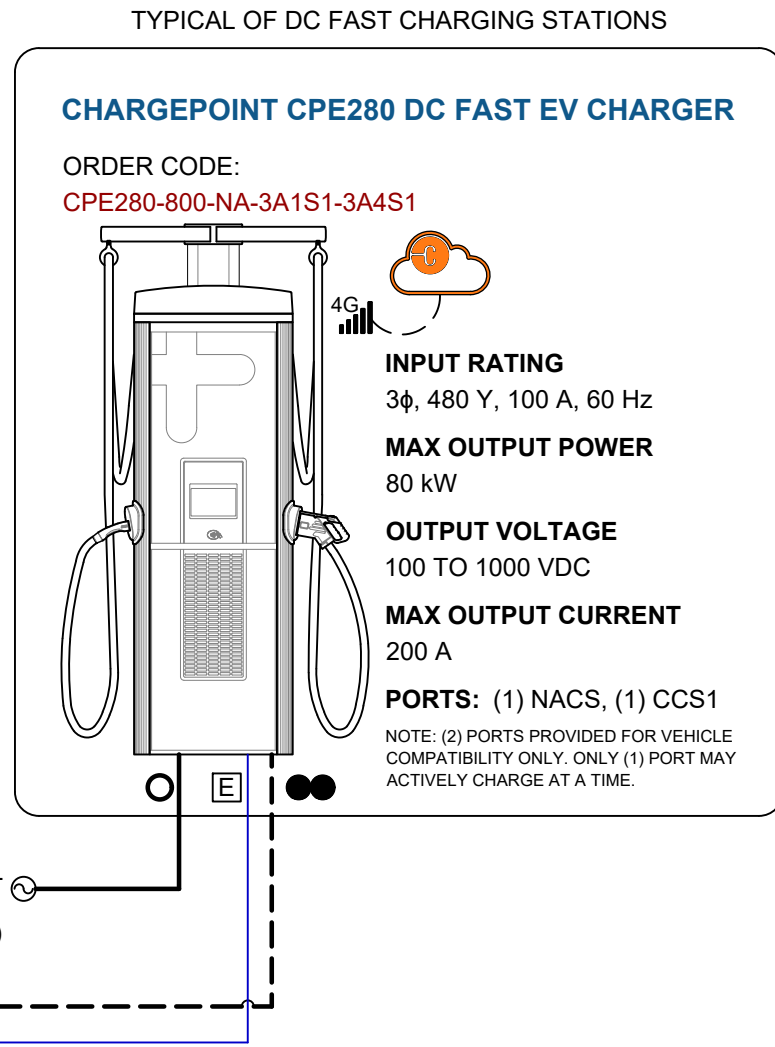


QUOTATION/PRICING REQUESTS:
CONTRACTORS TO CONTACT ELECTRICAL DISTRIBUTORS.

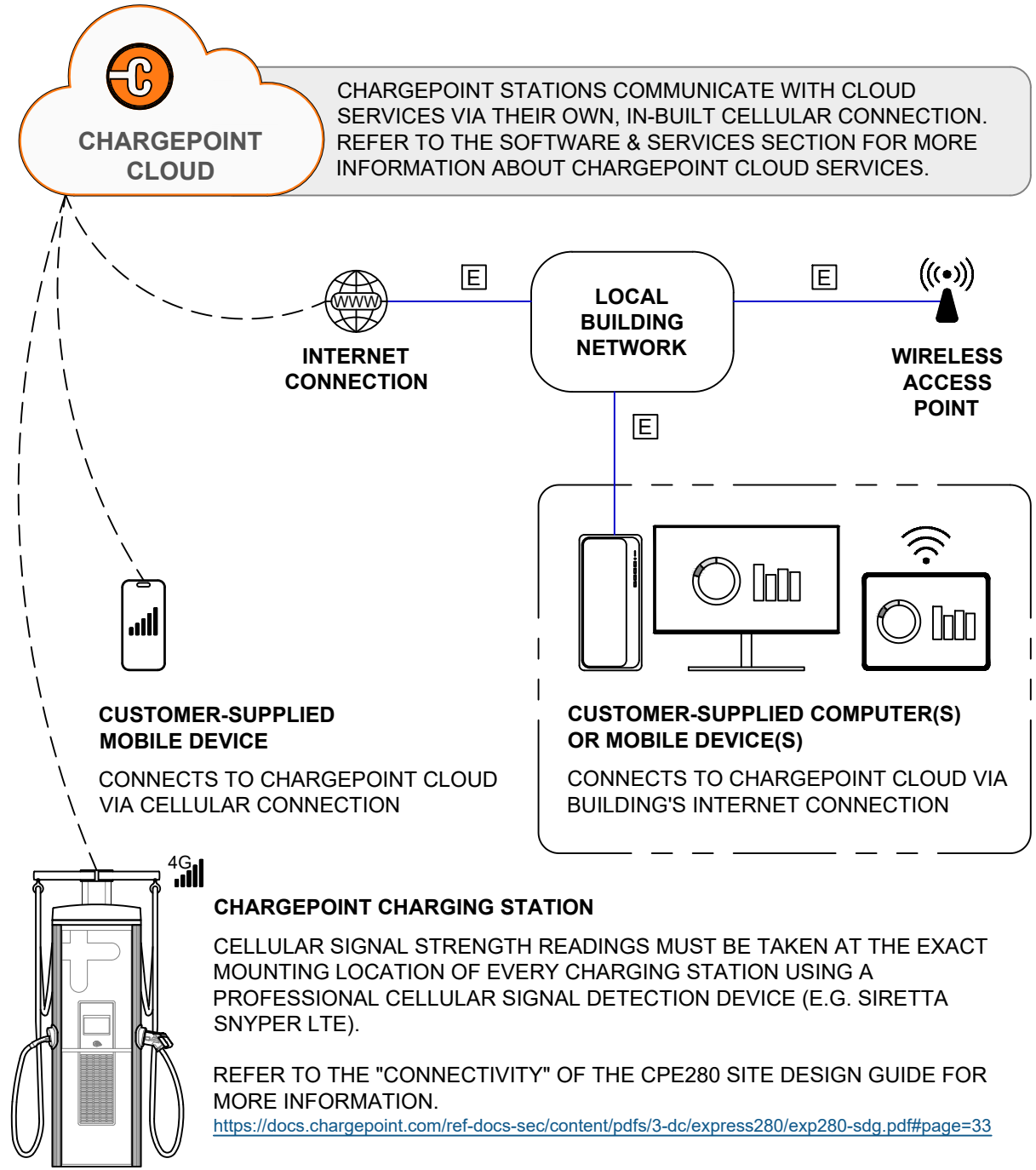
OTHER INQUIRIES:
CONTACT CHARGEPOINT DIRECTLY VIA EMAIL AT
SPECIFICATIONS@CHARGEPOINT.COM
OR VISIT CHARGEPOINT'S HOMEPAGE AT
[HTTPS://WWW.CHARGEPOINT.COM/#CHPT](https://www.chargepoint.com/#CHPT)



FROM 480 Y / 277 V
DISTRIBUTION PANEL
3P, 125 A BREAKER
PER STATION (F.B.O.)



CHARGEPOINT NETWORK DIAGRAM



CHARGEPOINT POWER MANAGEMENT - DC FAST

OVERVIEW

CHARGEPOINT'S POWER MANAGEMENT TECHNOLOGY, INCLUDED WITH EVERY CHARGEPOINT CLOUD PLAN, ENABLES USERS TO SET POWER LIMITS ON THEIR SITE'S CHARGING STATIONS. THIS FEATURE FACILITATES THE OVERSUBSCRIPTION OF ELECTRICAL INFRASTRUCTURE, MINIMIZING INSTALLATION COSTS AND ELIMINATING THE NEED FOR UTILITY UPGRADES.

KEY COMPONENTS

STATION FIRMWARE & CLOUD SOFTWARE

CHARGEPOINT'S STATION FIRMWARE AND CLOUD-BASED SOFTWARE WORK TOGETHER TO ACTIVELY MANAGE THE POWER THAT IS OUTPUT TO INDIVIDUAL VEHICLES, ENSURING STRICT COMPLIANCE WITH UPSTREAM INFRASTRUCTURE RATINGS AND MEETING STANDARDS SET BY NFPA TO §625.42 FOR LOAD MANAGEMENT.

ELIMINATION OF EXTERNAL LOAD MANAGEMENT DEVICES

THIS INTEGRATED SYSTEM ELIMINATES THE REQUIREMENT FOR ADDITIONAL, EXTERNAL LOAD MANAGEMENT DEVICES IN UPSTREAM EQUIPMENT, STREAMLINING THE IMPLEMENTATION OF THE EVSE LOAD MANAGEMENT SYSTEM.

HIERARCHICAL POWER MANAGEMENT

CHARGEPOINT'S POWER MANAGEMENT OFFERS CUSTOMIZABLE LOAD MANAGEMENT STRATEGIES TO MEET PROJECT REQUIREMENTS AND ENABLE SCALABLE SYSTEM DESIGN FOR FUTURE EXPANSION. THIS FLEXIBILITY ENABLES OVERSUBSCRIPTION OF TRANSFORMERS AND PANELS, AND THE IMPLEMENTATION CAN INCLUDE A HIERARCHY OF THESE STRATEGIES.

1. PANEL LEVEL POWER MANAGEMENT

- ALLOWS OVERSUBSCRIPTION OF BREAKER PANELS.
- ENABLES INSTALLATION OF MORE CHARGING PORTS THAN THE PANEL RATING ALLOWS.
- SOFTWARE LIMITS THE POWER PROVIDED BY EACH CHARGING PORT TO STAY WITHIN THE NEC PANEL RATINGS WHILE CONSIDERING CONTINUOUS LOAD REQUIREMENTS.

2. SITE OR TRANSFORMER LEVEL POWER MANAGEMENT

- ALLOWS OVERSUBSCRIPTION OF A TRANSFORMER OR AGGREGATE EV LOAD ON A SITE.
- ENABLES INSTALLATION OF MORE CHARGING PORTS THAN THE SITE POWER OR TRANSFORMER ALLOWS.
- SOFTWARE LIMITS THE POWER PROVIDED BY EACH CHARGING PORT TO STAY WITHIN THE TRANSFORMER RATINGS OR MAXIMUM ALLOWABLE AGGREGATE SITE LOAD WHILE CONSIDERING CONTINUOUS LOAD REQUIREMENTS.

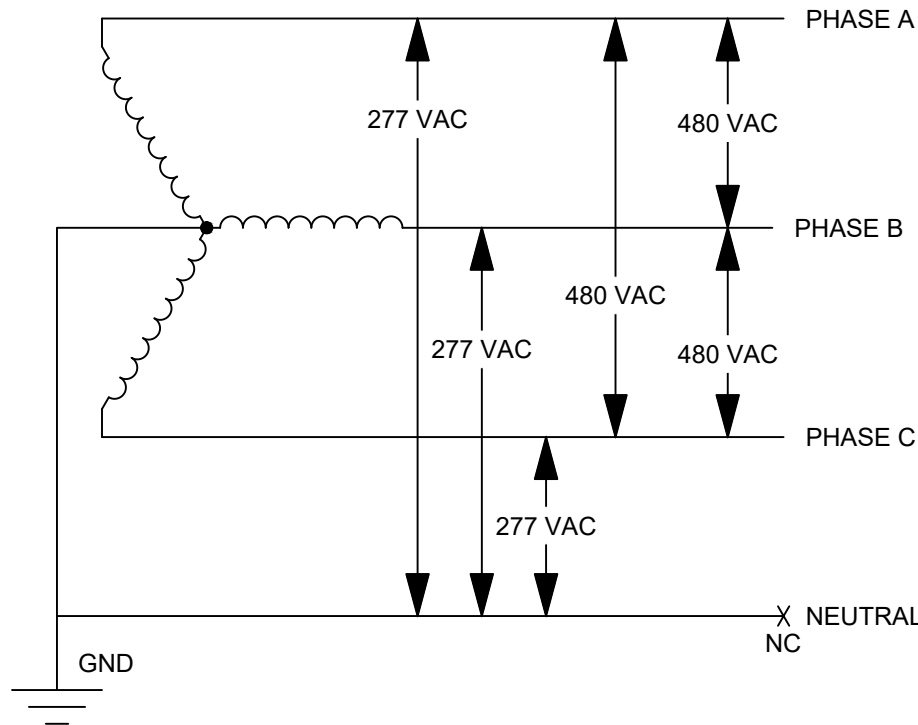
ADAPTABILITY

WHETHER FOR DAY-ONE INSTALLATION OR AS PART OF A FUTURE-PROOFING STRATEGY, THE SYSTEM ACCOMMODATES THE SEAMLESS ADDITION OF PORTS IN THE FUTURE. THIS ENSURES ADAPTABILITY TO EVOLVING PROJECT REQUIREMENTS AND PROVIDES A SCALABLE AND ROBUST SOLUTION FOR POWER MANAGEMENT.

SUPPORTED ELECTRICAL SYSTEM

480 Y / 277 VAC, 3 ϕ WYE

NEUTRAL NOT REQUIRED



LEGEND

- AC POWER FEED FROM DISTRIBUTION
- (3) PHASE CONDUCTORS, MAX 1/0 AWG
+ (1) GROUND CONDUCTOR, MAX 6 AWG
- ETHERNET CONNECTION - CAT5e OR BETTER
- DC CONDUCTORS X4 - (2) POSITIVE, (2) NEGATIVE
MAX 300 KCMIL, XHHW-2
- 4G LTE CELLULAR CONNECTION
- WIFI CONNECTION
- CHARGEPOINT CLOUD SERVICES

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 CREDENTIALS.
- FOR MORE INFORMATION ABOUT CHARGEPOINT'S CPE280 DC FAST CHARGER, REFER TO THE FOLLOWING LINKS:
 - CPE280 DATASHEET: <https://docs.chargepoint.com/ref-docs-sec/content/pdfs/3-dc/express280/exp280-ds.pdf>
 - CPE280 SITE DESIGN GUIDE: <https://docs.chargepoint.com/ref-docs-sec/content/pdfs/3-dc/express280/exp280-sdg.pdf>
 - INSTALLATION GUIDES AVAILABLE TO CERTIFIED INSTALLERS: <https://www.chargepoint.com/partners/training-certification>

SOFTWARE & SERVICES

CHARGEPOINT CLOUD PLANS

- ENTERPRISE CLOUD PLAN** REQUIRED
- ORDER CODE: **CPCLD-ENTERPRISE-DC-n***
 - *REPLACE "n" WITH DESIRED YEARS OF SERVICE (1, 2, 3, 4, OR 5 YEARS)

THE CHARGEPOINT ENTERPRISE CLOUD PLAN FOR DC FAST CHARGING STATIONS INCLUDES THE FOLLOWING FEATURES:

- | | |
|---|---|
| GENERAL SUPPORT <ul style="list-style-type: none">• 4G LTE CELLULAR NETWORK CONNECTION• BASIC API ACCESS• 24/7 SUPPORT FOR STATION HOSTS VIA PHONE• 24/7 SUPPORT FOR DRIVERS VIA PHONE | STATION MANAGEMENT <ul style="list-style-type: none">• STATION SOFTWARE UPDATES• REAL-TIME STATION STATUS• AGGREGATED REPORTING & ANALYTICS• USER MANAGEMENT & ADMINISTRATIVE TOOLS• VALET DASHBOARD• ON-STATION VIDEO UPLOADS• STATION MESSAGES |
| DRIVER MANAGEMENT <ul style="list-style-type: none">• 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 | POWER MANAGEMENT <ul style="list-style-type: none">• POWER SHARING AT CIRCUIT, PANEL, & SITE LEVELS• HIERARCHICAL POWER SHARING• API SUPPORTING DEMAND MANAGEMENT• TIME OF USE POWER SHARING• METER DATA & ADVANCED ANALYTICS REPORTING• POWER MODULE HOURS BALANCING• DYNAMIC POWER MODULE ALLOCATION |

FOR MORE INFORMATION ON CLOUD PLAN FEATURES, VISIT:
www.chargepoint.com/download-file/cp-cloud-plans-comparison-matrix-commercial

INSTALLATION & ACTIVATION

- INSTALLATION** REQUIRED
- INSTALLATION TO BE COMPLETED BY AN ENTITY HOLDING THE CPE280 INSTALLATION MICROCREDENTIAL* FROM [CHARGEPOINT UNIVERSITY](#).

* CHARGEPOINT RECOMMENDS SELECTING A CHARGEPOINT DC CERTIFIED INSTALLER.



- COMMISSIONING** REQUIRED
- ORDER CODE: **CPE280-COMMISSIONING**
 - INCLUDES ON-SITE VALIDATION OF CPE280 STATIONS BY A CHARGEPOINT TECHNICIAN PRIOR TO ACTIVATION.

- ACTIVATION** REQUIRED
- ORDER CODE: **CP-ACTIVATION**
 - INCLUDES ACTIVATION OF STATIONS BY A CHARGEPOINT REMOTE SERVICES TECHNICIAN.

WARRANTIES

- CHARGEPOINT ASSURE®** RECOMMENDED
- ORDER CODE: **CPE280-ASSURE-n***
 - INCLUDES PARTS COSTS & LABOR COSTS FOR ISSUES COVERED UNDER WARRANTY
 - INCLUDES LABOR & TRAVEL COVERAGE TO REPAIR ISSUES NOT COVERED UNDER WARRANTY, SUCH AS VANDALISM & ACCIDENTS.
 - INCLUDES COORDINATION FOR SERVICE VISITS BY A CHARGEPOINT TECHNICAL SUPPORT ENGINEER.
 - FOR MORE INFORMATION, VISIT: www.chargepoint.com/download-file/chargepoint-assure-brochure-us
- *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.



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CAMPBELL, CA 95008
TEL: +1 (408) 841-4500

CONCEPT DRAWING
NOT FOR CONSTRUCTION

DRAWING TITLE:
CHARGEPOINT CPE280

TYPICAL PAIRED STATION
SINGLE LINE DIAGRAM

DOCUMENT #: 12128001a
DATE: 09.08.2025
DRAWN BY: CMT
SCALE: N.T.S.

SHEET:

EV501