



Permit Number: _____

2022 Checklist for Installing Residential Electric Vehicle Charging Station (EVCS) at Existing Facilities

| Check One | Type of Charging Station(s) Proposed | Power Levels (Proposed circuit rating) |
|--------------------------|--------------------------------------|---|
| <input type="checkbox"/> | Level 1 | 110/120 volt AC (15 or 20 Amps) |
| <input type="checkbox"/> | Level 2 – 3.3 kilowatt (low)* | 208/240 VAC (20 or 30 Amps) |
| <input type="checkbox"/> | Level 2 – 6.6 kilowatt (medium)* | 208/240 VAC (40 Amps) |
| <input type="checkbox"/> | Level 2 – 9.6 kilowatt (high)* | 208/240 VAC (50 Amps) |
| <input type="checkbox"/> | Level 2 – 19.2 kilowatt (highest)* | 208/240 VAC (100 Amps) |
| <input type="checkbox"/> | Other (provide detail) | |

*Plan check fee will be required

Section 1: PERMIT DESCRIPTION

1. Submittal requirements:
 - a. Checklist
 - b. Electrical load calculation worksheet (Level 2 only)
 - c. Electrical permit application
 - d. Site plan
 - e. Single-line diagram (Level 2 only)
 - f. Manufacturer specifications
2. Does the scope of work on the plans match the electrical permit application description?

Yes No

Section 2: ELECTRICAL LOAD CALCULATION

1. Electrical load calculation is required, is it included in submittal? (CEC1 220) Yes No
2. Based on the load calculation, is a new electrical service panel upgrade required? ²

Yes No

 - a. If yes, do plans include the electrical service panel upgrade? Yes No
 - b. If yes, has a separate permit been pulled for the panel upgrade? Yes No
3. Is the single-family residence identified as a condominium? Yes No
4. Is the charging circuit appropriately sized for a continuous load (125%)? Yes No
5. Is the charging equipment proposed a level 2 – 9.6kW station with a circuit rating of 50 amps or higher? Yes No Not Applicable
6. If yes, is a panel schedule with electrical calculations included with the single-line diagram? Yes No Not Applicable

¹ 2022 California Electrical Code. Article 220 Branch-Circuit, Feeder, and Service Calculations.

² The size of the existing service MUST be equal to or larger than the Minimum Required Size of main service breaker. If the existing service panel is smaller than the minimum required size of existing electrical services, then a new upgraded electrical service panel must be installed.



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Section 3: SITE PLAN & SINGLE LINE DRAWING

1. If yes to Section 2 Q2 and/or Q3, is the required single-line diagram submitted for the proposed project Yes No
 - a. Are mechanical ventilation requirements triggered for indoor venting requirements per (CEC 625.52(B))? Yes No
 - i. If yes, is a mechanical plan included with the permit application? Yes No
2. Is the Site plan fully dimensioned and drawn to scale?
 - a. Showing location, size and use of all structures? Yes No
 - b. Showing location of electrical panel AND charging system? Yes No
 - c. Showing type of charging system and mounting? Yes No
3. Is the type of mounting for charging system included if the charging system is not wall-mounted? Yes No Not Applicable

Section 4: COMPLIANCE WITH 2022 CALIFORNIA ELECTRICAL CODE (TITLE 24, PART 3)

1. Does the plan include EVCS manufacturer's specs and installation guidelines? Yes No
2. Does the site plan identify the amperage and location of existing electrical service panel? Yes No
 - a. If yes, does existing panel schedule have room for additional breakers? Yes No
 - b. Are sizes for the conduit and conductor included? Yes No
 - c. Is the charging unit rated more than 60 Amps or more than 150V to ground? Yes No
 - d. If yes, are disconnecting means provided in a readily accessible location in line of sight and within 50ft of EVCS? (CEC 625.43) ("Within sight" defined as within 50') Yes No
3. Does the charging equipment have a Nationally Recognized Testing Laboratory (NRTL) approved listing mark? (UL 2202/UL 2200) Yes No
4. If trenching is required, is the trenching detail called out? Yes No
 - a. Is the trenching in compliance with electrical feeder requirements from structure to structure? (CEC 225) Yes No
 - b. Is the trenching in compliance of minimum cover requirements for wiring methods or circuits? (18" for direct burial per CEC 300) Yes No

CORRECTION(S) SUMMARY:

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Site Plan: Please provide the following elements on the below site plan

- Draw street location with street name
- Mark location of main panel and location of proposed EV charger
- Mark location of front door and driveway

Main Breaker: _____ Amps

EVCS Breaker: _____ Amps

**Existing
Single-Family Residence**