CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Planning, Building and Code Enforcement

BULLETIN #263 09/07/17 SUBJECT TO CHANGE

ONLY FOR
- SINGLE FAMILY HOMES
- DUPLEXES

Electric Vehicle Charging System Permit Requirements- SF/Duplexes

GET A PERMIT BEFORE YOU INSTALL THE CHARGING SYSTEM

Save money by getting your permit online at **sjpermits.org.**

Or visit the Permit Center and request **Over-The-Counter** permit service. No appointment is needed.

LEVELS OF EV CHARGING

Two levels of electrical current—called VAC or "Volts Alternating Current"—are allowed in single-family and duplex residences:

- **Level 1 - 120 VAC** - This is regular household voltage. It can charge a depleted battery in six to 10 hours, depending on the vehicle model.
- **Level 2 - 240 VAC** - This voltage is the type that supports clothes dryers. It can charge a depleted battery in three to eight hours, depending on the vehicle model.

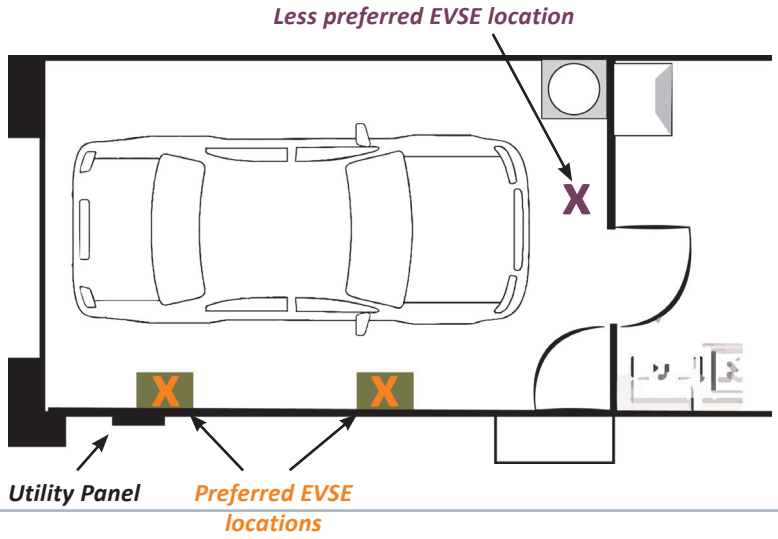
Be sure to research which level is right for your EV charging needs.

Before you install an electric vehicle charging system, you need to:

- **Obtain an electrical permit.** An electrical plan is not required to secure the permit.
- **Obtain a mechanical permit if the manufacturer of the system specifies use of mechanical ventilation.** A mechanical plan is not required to secure the permit. At the time of inspection, you need to provided the City inspector with the manufacturer's installation guidelines.

ELECTRICAL REQUIREMENTS

Provide the following information at the time of inspection, which will be reviewed by the City Inspector.

▪ Level of EV charging ▪ UL listing number or other approved listing number	Specify the level of EV charging system to be installed: Level 1 or Level 2. Include the UL listing number or the listing number of another approved nationally recognized testing laboratory, in compliance with UL2202: "Standard for Electric Vehicle Charging System Equipment."
▪ Panel rating ▪ EVSE charging load ▪ Circuit size	Specify the panel rating of the existing electrical service, for example, 200 amp service, at the residence. Indicate the EV charging system load and circuit size. Load calculations, per California Electrical Code Article 220, shall be provided for the City's Inspector's review when the service panel rating is 125 amperes or less. Electrical panel upgrades and electrical wiring shall be in conformance with the current edition of the California Electrical Code.
▪ Will a second electric meter be installed?	Indicate if a second electric meter installation will be installed due to special electric utility rates available for EV charging.
▪ Show location of utility panel and EVSE	Show the location of the utility panle and EVSE. Be sure that the location is in accordance with the manufacturer's written guidelines. 

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