



ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) FOR MULTIFAMILY AND COMMERCIAL/INDUSTRIAL

EVSE installation for Multifamily and Commercial/Industrial use requires a building and electrical permit from the Building Department. For an EVSE system located at outdoors, review and approval by Planning Department is required prior to the issuance of the permit. EVSE shall be listed and labeled by an approved nationally recognized testing laboratory (NRTL). EVSE must be installed according to the manufacturer's installation instructions, its listing, the California Electrical Code (CEC), and the California Building Code (CBC).



There are three types EVSE for multifamily and commercial/ industrial properties:

Level 1 connects directly into a standard 120 Volt receptacle outlet, (recommended in a dedicated individual electrical circuit).

Level 2 requires a 240 Volt electrical circuit.

Level 3 requires a 480 Volt/208 Volt three-phase electrical circuit.

Submit 3 sets of plans to the Building Department including:

- Complete the City of Ontario building permit application form (available at Building Department web site).
- Copies of EVSE manufacturer's installation instructions & specifications.
- Indicate on the plans the manufacturer name, model number, and the level type of each proposed type of EVSE.
- Plans must be prepared by a registered design professional or licensed electrical contractor for design-build projects.
- Site plan showing location of the buildings and their footprints, landscaped areas, any existing and all proposed outdoor EVSE stations, any other existing or proposed electrical equipment, property lines, street, the north orientation, pedestrian circulation areas, parking areas, and all access compliance information associated with the proposed EVSE.
- Detail to be included for the EVSE footing & anchorage as per equipment's specifications or designed by licensed professional.
- Floor plan showing location of the EVSE inside the building with all information of access compliance.
- Electrical plans showing electrical systems compliance with CEC to include, but not limited to electrical wiring layout, floor plans of locations of all electrical equipment, single line diagrams, wire sizing calculations, and panel schedules with existing loads and added loads. (EVSEs are continuous loads that must be calculated to not less than 125% of their maximum rating). Plans must specify the wire size & insulation type, and conduit type & size, equipment grounding conductor type & size, and circuit overcurrent protection device, (circuit breaker and fuse), rating. EVSE rated more than 60 Amp or more than 150 volts to ground must have lockable type disconnects.