



City of Malibu

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Commercial Electric Vehicle Charger Guidelines

The following is a design guide / checklist for submitting commercial Electric Vehicle (EV) charging stations installed in the following locations:

- **Multi-Family Parking Facilities** (such as condos, apartments, townhomes, and common or public use areas of such complexes)
- **Commercial Parking Facilities** (such as retail centers, restaurants, office buildings, industrial uses, and public parking structures)

Project Approval Process

Before preparing plans for a commercial EV charging project, the Applicant should discuss their project with City Planning staff to verify parking and/or landscape regulations. Planning Department approval is required prior to plan check submittal to Building Safety.

Applicants considering installing an EV charging system can submit the project for Building Plan Check through Malibu's Development Portal www.MalibuCity.org/DevelopmentPortal. After the plan review is complete and approved, permits may be requested through the online portal.

The architectural plans showing accessible plans and details shall be prepared by a California Licensed Architect. The electrical sheets shall be prepared by a California Licensed Electrical Engineer. Submit permit requests through the online portal www.MalibuCity.org/DevelopmentPortal. Malibu City Hall is open to the public for permit services Monday through Friday, 8:00 AM – 12:00 PM.

Finally, request an inspection through the online portal at www.MalibuCity.org/inspections.

Submittal Checklist

- A site plan showing existing parking spaces and location(s) of new EV space(s)
- Clearly specify the total number of parking spaces in the parking facility and the proposed number of EV spaces specific to each EV charging level (Level 1, Level 2, DC Fast Charging, etc.). See Chapters 4 and 5 of Los Angeles County Green Building Standards Code for the required number of EV spaces for new construction.
- An adequate barrier, such as bollards or curbs, where EV equipment is located in an area subject to vehicular damage
- Disabled access requirements including but not limited to, van accessible, standard accessible or ambulatory space dimensions, markings, signage, curb ramps, detectable warnings, reach ranges, etc. Accessible EV spaces shall comply with Chapter 11B of Los Angeles County Building Code. For multi-family projects, refer to Chapter 4 of Los Angeles County Green Building Standards Code and Chapter 11A of Los Angeles County Building Code. Note that the number of accessible EV spaces shall be calculated separately for each specific EV charging level or type.

- Provide manufacturer cut sheets for the specific model and specifications
- A panel schedule including the new EV charger(s)
- Identify existing electrical service, such as rating in amperes, system voltage, connected or calculated load, spare capacity in amperes
- A single line diagram and overcurrent protection devices (in amperes) for the main service, sub panels, disconnecting means, and EV charger circuit supply
- Show on the site plan the location and size of conduit and type and size of conductors (conductors shall be sized per Article 310 of the Los Angeles County Electrical Code (LACEC))
- Note electrical feeder requirements when trenching structure to structure (LACEC 225). The feeder from structure to structure shall be noted in the scope of work. Verify that trenching complies with minimum cover requirements for wiring methods or circuits per LACEC 300.
- Provide voltage and ampere rating of the EV supply equipment and circuit rating of the EV supply equipment
- A lockable disconnect is required in a readily accessible location per LACEC 625.43 for EV charging stations over 60A or 150V to ground. A plaque stating, "Emergency Power Off – Electric Vehicle Charging Station" must be installed on each disconnect
- Provide structural details showing method of attachment. Equipment weighing over 400 pounds shall include calculations prepared by a licensed engineer to demonstrate resistance against seismic forces.