



Electrical Vehicle Charging Station (EVCS) Field Inspection Checklist

This checklist provides basic guidelines for inspecting most residential, multi-family and commercial electrical vehicle charging stations (EVCS). The intent of using the checklist is to provide transparent and well-defined information to minimize the number of re-inspections and accelerate project completion for most EVCS systems. These guidelines are not exhaustive.

Make sure all EVCS disconnects, and circuit breakers are de-energized and verify the following:

- 1.** All work done in a neat and workmanlike manner [NEC 110.12].
- 2.** EVCS is located in according to the approved plan and manufacturers' instructions.
- 3.** EVCS system and structural connections according to the approved plan and manufacturers' instructions.
- 4.** All penetrations are sealed according to the approved plan and manufacturers' instructions.
- 5.** Electrical wiring is in conduit, EMT for interior and IMC or RIGID for exterior.
- 6.** Electrical conduit is properly secured, supported, and routed to prevent physical damage.
- 7.** Electrical Conductors are of the correct size, correct type, and installed in accordance with the approved plans and the manufacturers' installation instructions.
- 8.** Overcurrent devices are the correct size and type according to the approved plan, electrical service equipment rating and the manufacturers' installation instructions.
- 9.** EVCS equipment installed, listed, and labeled according to the approved plan and manufacturers' instructions.
- 10.** Disconnects installed according to the approved plan and properly located as required by the NEC.
- 11.** Access and working space for operation and maintenance of EVCS equipment, disconnecting means and panel boards are maintained [NEC 110.26].
- 12.** Grounding/bonding of the electrical equipment according to the manufacturer's instructions and the NEC.

The following only pertains to Multi-Family, Commercial and Industrial properties.

- 13.** Electric vehicle charging station spaces may only be used for parking and charging electric or hybrid vehicles.
- 14.** Electric vehicle charging station spaces shall be identified with signage indicating the intended use of the parking space.
- 15.** Protection: Barrier curbing, steel bollards, or other adequate protection shall be used to protect charging station equipment.
- 16.** Accessibility: Charging station equipment shall be located so as not to interfere with accessibility requirements of the Illinois accessibility code and other applicable accessibility standards.