B RESIDENTIAL ELECTRIC VEHICLE CHARGING CHECKLIST

CITY OF STOCKTON

COMMUNITY DEVELOPMENT DEPARTMENT – BUILDING & LIFE SAFETY DIVISION
501 W WEBER AV BLDG 2, STOCKTON, CA 95203 • (209) 937-8561 • www.stocktonca.gov/building

To expedite the review and approval of electric vehicle chargers, provide this completed checklist along with all applicable items below with the building permit submittal.

PERMIT REQUIREMENTS:

- A permit is required for the installation of Electric Vehicle Supply Equipment (EVSE).
- Permits are issued to either the property owner with a completed Owner/Builder form *or* to a California licensed **C-10** contractor with a current City of Stockton Business License.
- **Residential EVSE permits are now available to apply, pay, and receive online via our online permit portal at: https://aca-prod.accela.com/STOCKTON. A free user account must be created to use this service.**
- EVSE Permits can also be obtained at the Community Development Department.
  - Located at 501 W Weber Av Bldg 2, Stockton, CA 95203
  - Office hours are from 8:00 a.m. to 4:30 p.m. Monday through Friday, closed alternate Fridays.

SUBMITTAL CHECKLIST:

- ☐ A. Building Permit Application
- ☐ B. Completed checklist, see below
- ☐ E. Owner/Builder Form (if applicable)
- ☐ F. Authorization Letter from the licensed contractor for the individual picking up the permit (if applicable)

GENERAL REQUIREMENTS CHECKLIST:

LOCATION OF EVSE:

☐ Garage ☐ Carport ☐ Other (specify): _____
(If the EVSE equipment will be installed in a location subject to vehicular damage, a barrier shall be installed)

EVSE CHARGING LEVEL:

☐ Level 1 (120V) ☐ Level 2 (240V)

TYPE OF EQUIPMENT BEING INSTALLED:

☐ NEMA 14-50 ☐ NEMA 5-15 ☐ NEMA 5-20 ☐ Other (specify):_____

EQUIPMENT OVERCURRENT PROTECTION RATING:

☐ 15A ☐ 20A ☐ 50A ☐ Other (specify):_____

EXISTING ELECTRICAL SERVICE:

☐ 100A ☐ 125A ☐ 150A ☐ 200A ☐ Other (specify):_____
(If less than 150A, provide completed Electrical Load Worksheet at time of inspection)

ELECTRICAL SERVICE UPGRADE REQUIRED:

☐ No ☐ Yes (size):_____

BRANCH CIRCUIT DISTANCE:

☐ 100-feet or less ☐ More than 100-feet

CALIFORNIA ELECTRICAL CODE REQUIREMENTS:

All electric vehicle charging systems shall comply with the applicable sections of the California Electrical Code, including Article 625.

LISTED EQUIPMENT:
All electric vehicle supply equipment shall be listed by a nationally recognized testing laboratory (e.g. U.L.) [CEC 625.5]

CONDUCTOR SIZING:
The table below illustrates the type and size of wire and conduit to be used for various electrical vehicle charger circuits. Follow the appropriate row in the table based on the size of the circuit breaker and manufacturer's specifications.

Size of EV Charger Circuit Breaker	Required Minimum Size of Conductors (THHN wire; THHW wire for exterior)[1]	Conduit Type and Size[2]		
		Electrical Metallic Tubing (EMT)	Rigid Nonmetallic Conduit – Schedule 40 (RNC)	Flexible Metal Conduit (FMC)
20 amps	#12	1/2"	1/2"	1/2"
30 amps	#10	1/2"	1/2"	1/2"
40 amps	#8	3/4"	3/4"	3/4"
50 amps	#6	3/4"	3/4"	3/4"
60 amps	#4	3/4"	3/4"	3/4"
70 amps	#4	3/4"	3/4"	3/4"

1. As an alternate, Nonmetallic Sheathed Cable (NMC) (e.g. Romex) may be used if protected from physical damage by placing inside a wall cavity or attic and protected in accordance with CEC 300.4.
2. Based on 4 wires in the conduit (2-current carrying conductors, 1-grounded conductor, and 1-equipment ground).

PROTECTION FROM PHYSICAL DAMAGE:
Electric vehicle supply equipment shall be protected against vehicle damage when located in the path of a vehicle. Protection would typically require the installation of a pipe bollard or other guard, to avoid this, locate the EVSE on the garage side wall out of the vehicular path. [CEC 110.27(B)]

EQUIPMENT HEIGHT:
The coupling means of the electric vehicle supply equipment shall be stored at a height of not less than 18 inches above the floor for indoor locations and not less than 24 inches above the grade level for outdoor locations. [CEC 625.50]

MORE THAN 60 AMPS:
For equipment rated more than 60 amps, the disconnect shall be provided and installed in a readily accessible location and shall be capable of being locked in the open position. [CEC 625.43]

VENTILATION:
Confirm with the manufacturer's specifications if mechanical ventilation is required during indoor charging. If required, both supply and exhaust equipment shall be permanently installed. The supply circuit to the ventilation equipment shall be interlocked with the equipment and shall remain energized during the entire charging cycle. [CEC 625.52]

GFCI AND ENCLOSURE REQUIREMENTS:
All receptacles installed for the connection of electric vehicle charging shall have ground-fault circuit-interrupter protection. Outdoor receptacles shall have an enclosure that is weatherproof. [CEC 625.54, 625.56]

STATEMENT OF COMPLIANCE:

I hereby acknowledge that the information provided is a true and correct representation of the existing and proposed conditions at the project site and further acknowledge that any conditions discovered during the inspection process that pose a life-safety concern may require further investigation and repairs.

Further, I agree to comply with the noted code requirements above and agree to **provide a copy of the manufacturer's specifications for the proposed equipment and electrical load calculations (if applicable) at time of inspection.**

PERMIT APPLICANT		
NAME	SIGNATURE	DATE