

City of Whittier

COMMUNITY DEVELOPMENT 13230 Penn Street, Whittier, California 90602-1716 (562) 567-9320 Fax (562) 567-2872 www.cityofwhittier.org

Single Family

Multifomily

EV Charger Application

ALL EV CHARGER PERMITS WILL BE ISSUED TO HOME OWNER OR ELECTRICAL CONTRACTOR WITH A CLASSIFCATION OF "C-10" ONLY. CONTRACTOR SHALL POSSESS VALID STATE LICENSE AND CURRENT WORKERS COMPENSATION AT THE TIME OF PERMIT APPLICATION. UPLOAD DECLARATIONS WITH <u>RECORD NUMBER</u> ONCE APPLICATION HAS BEEN SUBMITTED.

EVERYTHING IN RED IS REQUIRED BEFORE SUBMISSION

Date:	Job Address (Street#,	Street Name, Unit#, Zip Code):	Dwelling Dwelling Pick One:	
Property Owner's Name	•	Contractor's Name Contractor's	Applicant's Name	
Property Owner's Phone:		Phone Number Contractor's	Applicant's Phone Number:	
Property Owners Email		Email	Applicant's Email	
Owner Address: #/St/Zip		Contractor Address: #/St/City/Zip	Contractor's State License No:	

Description of Work:

EV CHARGER CHECKLIST

Purpose

The purpose of this guideline is to assist permit applicants in streamlining the permitting and inspection process for Residential Single Family EV Chargers.

□ Site Plan

Provide two copies of the job-specific site plan showing:

- □ The location of the building and street name
- □ All EV receptacle location(s), conduit type / size, wire type / size, conductors, equipment ground size, and existing or proposed electric meter location
- □ Reference, on the site plan, 2022 CBC/CRC/CEC/CENC.

2023 LOS ANGELES COUNTY FIRE CODE

□ Manufacturer's Specifications

Provide two copies of the manufacturer's charger specifications. These specifications will show requirements and data for the EV charger being installed as well as a listing agency approval.

OR

Optional Electrical Service Load Calculation Form

Provide two copies of our Electrical Service Calculation Form. Follow steps one (1) thru nine (9) to figure out the minimum amperage needed for your main electric meter.



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Optional Method Service Load Calculation for a Single Dwelling Unit (CEC 220.82)

	1.	General Lighting and Receptacle Loads 220.82(B)(1) Do not include open porches, garages, or unused or	3x=	1	
	2.	untinished spaces not adaptable for future use. Small-Appliance Branch Circuits 20.82(b)(2)	(sq ft using outside dimensions)	0	
	0	At least two small-appliance branch circuits must be included. 210.11(C)(2)	(minimum of two)	2	
	3.	At least one laundry branch circuit must be included. 210.11(C)(2).	1500 x= (minimum of one) NOTE: 1500 VA shall be included for each laundry branch circuit.	3	
	4.	Appliances 220.82(B)(3) and (4) Do not include a Use nameplate rating of all or air-condition appliances (fastened in place, equipment in the permanently connected, or connected to a specific circuit), water heater// ranges, ovens, cooktops, motors, and clothes dryers. Convert any nameplate clothes dryer/ rating given in amperes to volt-amperes by multiplying the amperes by the range rated voltage. EV /	ing Total volt-amperes ing of all appliances. his section. LISTED BELOW	4	
	5.	Apply 220.82(B) demand factor to the total of lines 1 throug $\frac{-10,000}{(\text{total of line 1 through 4})} \times 40$	gh 4. % =+ 10,000 =	5	
	6.	Heating or Air-Condition System 220.82(C) Use the nameplate ratings in volt-amperes for all	, including heat pumps eating:		
		applicable systems in lines 'a' through 'c'.	x 100% =	A	
B)	Elec usua valu figui	ent for ressor(om op r.	heat-pump s) at 100%. If the erating with the		
		x 100% = B	x 65% =	С	
	7.	7			
	8.	Minimum Amperes Divide the total Volt-amperes÷= 8 by the voltage. (line 7) (voltage)	9. Minimum Size Service or Feeder (minimum amperes)	9	(minimum is 100 amperes)
	10.	10			
	11.	12			

Sample Site Plan



Sample Project Description

Installation of a new 40 amp circuit for a level 2 EV charger per manufacturer's installation instructions and 2016 CEC Article 625.

Minimum service panel size to be in accordance with the residential load calculation form.

House