

CITY OF MERCED INSPECTION SERVICES

CHECKLIST FOR ELECTRICAL VEHICLE CHARGING SYSTEMS

All forms available at https://www.cityofmerced.org/departments/development-services/building-division Completed Application Electrical Service Load Calculations Equipment Manufacturer's Installation Instructions Site Plan and Layout for location
Use of Building Area Single Family Multi-family Commercial (Single Business) Commercial (Multi Businesses) Mixed-Use Public Right of Way
Location and Quantity of EVSE to be Installed Garage Parking Levels Parking Lot Street Curb PROVIDE ON LAYOUT/SITE PLAN
Electronic Submittal Requirements □ PDF files of forms listed above □ Email all PDF files to inspectionservicesweb@cityofmerced.org
Eligibility Checklist for Expedited Electrical Vehicle Charging Station Permit (*Please complete a Permit Submittal Application in addition to this checklist)

Type of Charging Station(s)	Power Levels (proposed circuit rating)	Check
		one
Level 1	110/120 volt alternating current (VAC) at 15 or 20Amps	
Level 2 – 3.3 kW (low)	208/240 VAC at 20 or 30 Amps	
Level 2 – 6.6 kW (medium)	208/240 VAC at 40 Amps	
Level 2 – 9.6 kW (high)	208/240 VAC at 50 Amps	
Level 2 – 192 kW (highest)	208/240 VAC at 100 Amps	
	Provide Rating:	
Other (Provide Detail):		
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Permit Application Requirements:		
A. Does the application include EVCS manufacturer's specs and installation	_	Z
guidelines?		
Electrical Load Calculation Worksheet:		
A. Is an electrical load calculation worksheet included? (CEC 220)	Y	Z
B. Based on the load calculation worksheet, is a new electrical service panel upgrade	Υ□	Ν
required?		
1) If yes, do plans include the electrical service panel upgrade?	Y	N
C. Is the charging circuit appropriately sized for a continuous load of 125%?	Y	N
D. If changing equipment proposed is a Level 2 – 9 kW station with a circuit rating of		
50 Amps or higher, is a completed panel schedule with electrical calculations	Y	N
included with the single line diagram?		
C'. DI		
Site Plan-Floor Plan and Single Line Drawing:		
A. Is a site plan (Commercial only), floor plan and separate electrical plan with a	Υ□	Ν
single-line diagram included with the permit application?		
1) If mechanical ventilation requirements are triggered for indoor venting	\	
requirements (625.52), is mechanical plan included with the permit	Y	N
application?		NI 🗖
B. Is the site plan fully dimensioned and drawn to scale? (Commercial only)	Y	N
Showing location, size, and use of all structures? On the stripe location of all stripe locations are stripe.	Y	N
Showing location of electrical panel to charging system? Showing location of electrical panel to charging system?	Y	N [
3) Showing type of charging system and mounting?	Y	N [
4) Is the project located in the 100 year flood plain?	Y	N [
Compliance with 2019 California Electrical Code: A. Does the plan include EVCS manufacturer's specs and installation guidelines?	Υ□	N
B. Does the electrical plan identify the amperage and location of existing electrical		
service panel?	Y	Z
1) If yes, does the existing panel schedule show room for additional breakers?	Y	N
C. Is the Charging unit rated more than 60 amps or more than 150V to ground?	Y	
1) If yes, are disconnecting means provided in a readily accessible location in	Y	N
line of site and within 50' of EVCS? (CEC 625.43)		- "
D. Does the charging equipment have a Nationally Recognized Laboratory (NRTL) approved listing mark? (UL 2202/UL 2200)	Y	N
E. If trenching is required, is the trenching detail called out?	Y	N
1) Is the trenching in compliance with electrical feeder requirements from		
structure to structure? (CEC 225)	Y	Z
 Is the trenching in compliance with minimum cover requirements for wiring methods or circuits? (18" for direct burial per CEC 300) 	Y	N



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A. Does the CAL Green EV Readiness installation requirements apply to this project?	Y	N
1) Do the plans demonstrate conformance with CGBSC Table 5.106.5.3.3 for the minimum required number of charging spaces?	Υ□	Ν□
2) Do the construction plans comply with the design requirements set forth in CGBSC 5.106.5.31 for single charging spaces of CGBSC 5.106.5.3.2 for multiple charging spaces?	Υ□	Ν□
ompliance with 2019 California Building Code, Chapter 11-A/B Accessibility	Feature	:S:
A. Do the plans clearly depict all required accessible EVCS features for the disabled?	Y	N \square
1) Do the plans identify the correct number and type of accessible EVCS stalls required in accordance with Table 11B-228.3 ?	Υ□	Ν
2) Do the plans detail compliance with the accessible EVCS features required	Υ□	Ν
by 11B-812 and Figure 11B-812.9?	<u> · — </u>	
SE Location and Metering roposed EVSE location may not be located over any underground utility facilities, equip		
E Location and Metering	entation may red move m ply with	nd/or of ex quire fu y oblig