

RESOLUTION OF THE BOARD OF SUPERVISORS OF THE
COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA

**IN THE MATTER OF ADOPTING THE)
ELECTRIC VEHICLE CHARGING)
STATION SYSTEMS CHECKLIST)**

RESOLUTION NO. _____

WHEREAS, Subsection (a) of Section 65850.7 of the California Government Code provides that it is the policy of the state to promote and encourage the use of electric vehicle charging stations and to limit obstacles to their use; and

WHEREAS, Subsection (a) of Section 65850.7 of the California Government Code provides that the implementation of consistent statewide standards to achieve the timely and cost-effective installation of electric vehicle charging stations is not a municipal affair, as that term is used in Section 5 of Article XI of the California Constitution, but is instead a matter of statewide concern; and

WHEREAS, Subdivision (g)(1) of Section 65850.7 of the California Government Code states that on or before September 30, 2016, every city, county, or city and county with a population of 200,000 or more residents, and, on or before September 30, 2017, every city, county, or city and county with a population of less than 200,000 residents, shall adopt an ordinance and processing checklist, consistent with the goals and intent of this section, that creates an expedited, streamlined permitting process for electric vehicle charging stations; and

WHEREAS, Subsection (a) of Section 65850.7 of the California Government Code provides that the implementation of consistent statewide standards to achieve the timely and cost-effective installation of electric vehicle charging stations is not a municipal affair, as that term is used in Section 5 of Article XI of the California Constitution, but is instead a matter of statewide concern; and

WHEREAS, the Building and Safety Division, in an effort to increase the efficiency of the application submittal, plan review and permit issuance, has deployed checklists for residential, multi-unit residential and non-residential electric vehicle charging system installation that provide technical details to supplement and ensure safe implementation of the State Office of Planning and Research’s more general checklist. These checklists in combination with State Office of Planning and Research provide property owners and contractors a complete and efficient method for the evaluation and permitting of an electric vehicle charging system; and

WHEREAS, on December 13, 2016 the Santa Barbara County Board of Supervisors amended Chapter 10, Building Regulations to include procedures for the expedited review and permitting of electric vehicle charging systems.

NOW, THEREFORE, IT IS RESOLVED AS FOLLOWS:

The Board of Supervisors adopt Exhibit A, titled Eligibility Checklists for Single Family Residential, Multi-unit Residential and Non Residential Electric Vehicle Charging Station Systems to be used for determining the eligibility for expedited plan review and permitting for electric vehicle charging station systems in Santa Barbara County.

PASSED, APPROVED AND ADOPTED by the Board of Supervisors of the County of Santa Barbara, State of California, this ____ day of _____, 2016, by the following vote:

- AYES:
- NOES:
- ABSTAINED:
- ABSENT:

 PETER ADAM, CHAIR
 BOARD OF SUPERVISORS
 COUNTY OF SANTA BARBARA

ATTEST:

 MONA MIYASATO,
 COUNTY EXECUTIVE OFFICER
 CLERK OF THE BOARD

APPROVED AS TO FORM:

 MICHAEL C. GHIZZONI
 COUNTY COUNSEL

By _____
 Deputy Clerk

By _____
 Deputy County Counsel

Exhibit A: Eligibility Checklists for Single Family Residential, Multi-unit Residential and Non Residential Electric Vehicle Charging Station Systems

Office of Planning and Research Permitting Checklist

| | Residential | Non-Residential |
|--|---|--|
| Phase 1 Pre-Work Contractor | <ul style="list-style-type: none"> ✓ Understands intended use of the EVSE (i.e. personal) | <ul style="list-style-type: none"> ✓ Obtain an address for the location ✓ Determine the ownership of the site and/or authorization to install equipment at site ✓ Understands intended use of the EVSE (i.e., fleet, employee, customer, visitor, etc.) ✓ Determine number of vehicles charging and connectors per charging station ✓ Determine source of power and authorization to use source |
| | <ul style="list-style-type: none"> ✓ Determine type of vehicle(s) to be charged at EVSE ✓ Evaluate mounting type options (i.e., bollard, pole-mount, wall-mount, ceiling-mount) ✓ Clarify communication requirements (i.e., Ethernet, cellular, Wi-Fi, none or other) ✓ Determine the NEMA Enclosure type ✓ Determine the physical dimensions of the space(s) ✓ Inspect the type of circuit breaker panel board intended for the installation | |
| Phase 2 Pre-Work Customer | <ul style="list-style-type: none"> ✓ Identify incentives or rate structures through the utility ✓ Determine size of electrical service at the site ✓ Identify and contact applicable local permit office(s) to identify specific requirements, including local fire, environmental, construction, building, concealment and engineering requirements ✓ Identify incentives available through local, state or federal programs ✓ Contact insurance company to acquire additional insurance or separate coverage as needed ✓ Hire the contractor and verify credentials with all subcontractors; ensure electrical contractor's license for electrical work is current | |
| Phase 3 On-Site Evaluation | <ul style="list-style-type: none"> ✓ Verify EVSE meets UL requirements and is listed by UL or another nationally recognized testing laboratory ✓ Verify EVSE has an appropriate NEMA rated enclosure (NEC 110.28) based on environment and customer needs, such as weatherization or greater levels of resistance to water and corrosive agents ✓ Determine the level or charger meets customer's PEV requirements (most vehicles require the maximum of a 240V/32A (40A breaker) ✓ Based on proposed EVSE location, determine if cord length will reach a vehicle's charging inlet without excessive slack and does not need to be more than 25' in length (NEC 625.17) ✓ Cord management methodologies have been considered to reduce the risk of tripping hazards and accidental damage to the connector ✓ Mounting type selection based on requirements to meet site guidelines ✓ Determine whether EVSE communication options are beneficial to customer and/or local utility | |

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| <p>Phase 4 On-Site Survey</p> | <ul style="list-style-type: none"> ✓ Ensure overhead doors and vehicle parking spot do not conflict with EVSE location ✓ Place EVSE in a location convenient to charging port on vehicle and typical orientation of the vehicle in garage (i.e., backed in or head-first) ✓ Ensure functionality of lighting in the garage to meet NEC code 210-70 | <ul style="list-style-type: none"> ✓ Space(s) should be visible to drivers and pedestrians ✓ Determine proximity to building entrance (could be considered an incentive for PEV use) ✓ Select spaces proximate to existing transformer or panel with sufficient electrical capacity ✓ EVSE installation should maintain a minimum parking space length to comply with local zoning requirements ✓ If available, use wider spaces to reduce the risk of cord damage and minimize the intersection of cords with walking paths ✓ Ensure sufficient lighting at proposed space(s) to reduce the risk of tripping and damage to charging station from vehicle impact or vandalism; light levels above two foot candles are recommended ✓ Address accessibility requirements (refer to the Plug-In Electric Vehicle Infrastructure and Equipment Accessibility section of the Guidebook for more information) ✓ Determine availability of space for informative signing ✓ EVSE with multiple cords should be placed to avoid crossing other parking spaces ✓ All available charging station mounting options should be considered and optimized for the space ✓ Determine if hazardous materials were located at the site <p>PARKING DECKS</p> <ul style="list-style-type: none"> ✓ Place EVSE towards the interior of a parking deck to avoid weather-related impacts on equipment <p>PARKING LOTS</p> <ul style="list-style-type: none"> ✓ Avoid existing infrastructure and landscaping to mitigate costs, potential hazards and other negative impacts <p>ON-STREET</p> <ul style="list-style-type: none"> ✓ Install on streets with high foot and vehicle traffic to mitigate vandalism ✓ Avoid existing infrastructure to mitigate costs, potential hazards and other negative impacts ✓ Address accessibility requirements (refer to the Plug-In Electric Vehicle Infrastructure and Equipment Accessibility section of the Guidebook for more information) |
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| | | <ul style="list-style-type: none"> ✓ For pull-in spaces, EVSE should be placed in front of the space and either centered on the space if placed between two spaces (if two connectors are available); EVSE with more than two connectors should not be used in on-street applications ✓ For parallel parking locations, the charging station should be installed at the front third of the parked vehicle and based on the direction of traffic flow; EVSE with a single connector is recommended to reduce potential trip hazards |
| <p>Phase 4 Contractor Installation Preparation</p> | <ul style="list-style-type: none"> ✓ Mount the connector at a height between 36" and 48" from the ground (NEC 625.29) unless otherwise indicated by the manufacturer ✓ Install wall or pole-mount stations and enclosures at a height between 36" and 48" ✓ Ensure sufficient space exists around electrical equipment for safe operation and maintenance (NEC 110.26); recommended space is 30" wide, 3' deep and 6'6" high ✓ Minimize tripping hazards and utilize cord management technologies when possible ✓ Equipment operating above 50 volts must be protected against physical damage (NEC 110.27); ensure the vehicle is out of the line of vehicle travel and use wheel stops or other protective measures ✓ EVSE must be located such that ADA routes maintain a pathway of 36" at all times | <ul style="list-style-type: none"> ✓ Price quote submitted to customer and approved including utility upgrades ✓ Order equipment ✓ Provide stamped engineering calculations as needed ✓ Provide site plan modification with diagrams as necessary ✓ Complete all necessary service upgrades and/or new service assessments ✓ Complete permit applications as required by local permitting department ✓ Ensure permit is approved and collected ✓ Schedule all necessary contract work (i.e., boring, concrete and/or paving restoration) and utility work (i.e., utility marking, service upgrade, new service and/or meter pull) ✓ Ensure utility marking of existing power lines, gas lines or other infrastructure is completed and utilize "call before you dig" services |
| <p>Phase 5 Installation</p> | <ul style="list-style-type: none"> ✓ Residential garages may permit the use of nonmetallic-sheathed cable in lieu of conduit | <ul style="list-style-type: none"> ✓ Run conduit from power source to station location ✓ For EVSE greater than 60 amperes, a separate disconnect is required (NEC 625.23) and should be installed concurrently with conduit and visible from the EVSE |
| | <ul style="list-style-type: none"> ✓ Post permit at site in visible location ✓ Remove material to run conduit and/or wiring (i.e., drywall, insulation, pavers, concrete, pavement, earth, etc. ✓ Contractors are encouraged to examine requirement for installation sites and types of wiring in Chapter 3 of the NEC ✓ Pull wiring; charging stations require a neutral line and a ground line and equipment is considered to be a continuous load | |

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| | <ul style="list-style-type: none"> ✓ Conductors should be sized to support 125% of the rated equipment load (NEC 625.21) ✓ Preparing mounting surface and install per equipment manufacturer instructions ✓ Floor-mount: typically requires a concrete foundation with J-bolts on station base; place with space to allow conductors to enter through the base ✓ Wall/pole/ceiling-mount: install brackets for mounting of the equipment ✓ Install bollard(s) and/or wheel stop(s) as needed ✓ Install informative signage to identify the EVSE and potential trip hazards ✓ Install additional electrical panels or subpanels as needed ✓ Install service upgrades, new service and/or new meter as needed; utility may also pull a meter to allow for charging station wires to be connected to a panel ✓ Make electrical connection ✓ Perform finish work to repair existing infrastructure, surfaces and landscaping |
| <p>Phase 6 Inspection</p> | <ul style="list-style-type: none"> ✓ An initial electrical inspection by applicable building, fire, environmental and electrical authorities should occur after conduit has been run and prior to connecting equipment and running wires; if necessary, contractor should correct any issues and schedule a second rough inspection ✓ If required, the inspector will perform a final inspection to ensure compliance with NEC and other codes adopted within the jurisdiction by inspecting wiring, connections, mounting and finish work ✓ Contractor should verify EVSE functionality |
| <p>Additional Resources</p> | <ul style="list-style-type: none"> ✓ National Codes and Standards ✓ American National Standards Institute (ANSI) ✓ National Fire Protection Association (NFPA) ✓ Underwriters Laboratories, Inc. (UL) ✓ International Association of Electrical Inspectors (IAEI) ✓ International Code Council (ICC) ✓ NECA-NEIS Standards ✓ NECA and NFPA Webinars ✓ Electrical Vehicle Infrastructure Training Program (EVITP) Installer Training Course/Certification |



**Santa Barbara County Planning &
Development Building & Safety Division**

123 East Anapamu St., Santa Barbara, CA 93101

Office: (805) 568-3030 Fax: (805) 568-3103

624 W. Foster Rd, Suite C, Santa Maria, CA 93455

Office: (805) 934-6250 Fax: (805) 934-6258

**Eligibility Checklist for Expedited
Electric Vehicle Charging Station
Residential Permitting**

*This checklist is provided to determine if your application is eligible for expedited EVCS processing.
If any item is checked NO, revise design, otherwise application must go through standard review process.*

| Type of Charging Station(s) Proposed | Power Levels (proposed circuit rating) | Check one |
|--------------------------------------|---|--------------------------|
| Level 1 | 110/120 volt alternating current (VAC) at 15 or 20 Amps | <input type="checkbox"/> |
| Level 2 – 3.3 kilowatt (kW) (low) | 208/240 VAC at 20 or 30 Amps | <input type="checkbox"/> |
| Level 2 – 6.6kW (medium) | 208/240 VAC at 40 Amps | <input type="checkbox"/> |
| Level 2 – 9.6kW (high) | 208/240 VAC at 50 Amps | <input type="checkbox"/> |
| Level 2 – 19.2kW (highest) | 208/240 VAC at 100 Amps | <input type="checkbox"/> |
| Other (provide detail): _____ | Provide rating: _____ | <input type="checkbox"/> |

PERMIT APPLICATION

| | | |
|--|----------------------------|----------------------------|
| A. Is the application complete with the following information: Project address, parcel #, builder/owner name, contractor name, valid contractor's license #, phone numbers, etc. | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Does the application include EVCS manufacturer's specs and installation guidelines | <input type="checkbox"/> Y | <input type="checkbox"/> N |

ELECTRIC LOAD CALCULATION WORKSHEET

| | | |
|--|----------------------------|----------------------------|
| A. Is an electrical load calculation worksheet included? (CEC 220) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Based on the load calculation worksheet, is a new electrical service panel upgrade required | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, do plans include the electrical service panel upgrade | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| C. Is the charging circuit appropriately sized for a continuous load (125%) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| D. If charging equipment proposed is a Level 2 – 9.6 kW station with a circuit rating of 50 Amps or higher, is a completed circuit card with electrical calculations included with the single line diagram | <input type="checkbox"/> Y | <input type="checkbox"/> N |

SITE PLAN & SINGLE LINE DRAWING

| | | |
|---|----------------------------|----------------------------|
| A. Is a site plan and electrical plan with a single-line diagram included with the permit application | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If mechanical ventilation requirements are triggered for indoor venting requirements (CEC 625.29 (D)), is a mechanical plan included with the permit application | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Is the site plan fully dimensioned and drawn to scale | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Showing location, size, and use of all structures | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Showing location of electrical panel to charging system | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 3) Showing type of charging system and mounting | <input type="checkbox"/> Y | <input type="checkbox"/> N |

COMPLIANCE WITH 2013 CALIFORNIA ELECTRICAL CODE (TITLE 24, PART 3)

| | | |
|---|----------------------------|----------------------------|
| A. Does the plan include EVCS manufacturer's specs and installation guidelines | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Does the electrical plan identify the amperage and location of existing electrical service panel | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, does the existing panel schedule show room for additional breakers | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| C. Is the charging unit rated more than 60 amps or more than 150V to ground | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, are disconnecting means provided in a readily accessible location in line of site and within 50' of EVCS (CEC 625.23) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| D. Does the charging equipment have a Nationally Recognized Testing Laboratory (NRTL) approved listing mark? (UL 2202/UL 2200) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| E. If trenching is required, is the trenching detail called out | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Is the trenching in compliance with electrical feeder requirements from structure to structure(CEC 225) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Is the trenching in compliance of minimum cover requirements for wiring methods or circuits(18" for direct burial per CEC 300) | <input type="checkbox"/> Y | <input type="checkbox"/> N |



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**Eligibility Checklist for Expedited
Electric Vehicle Charging Station
Multi-Unit Dwelling Permitting**

*This checklist is provided to determine if your application is eligible for expedited EVCS processing.
If any item is checked NO, revise design, otherwise application must go through standard review process.*

| Type of Charging Station(s) Proposed | Power Levels (proposed circuit rating) | Check one |
|--------------------------------------|---|--------------------------|
| Level 1 | 110/120 volt alternating current (VAC) at 15 or 20 Amps | <input type="checkbox"/> |
| Level 2 - 3.3 kilowatt (kW) (low) | 208/240 VAC at 20 or 30 Amps | <input type="checkbox"/> |
| Level 2 – 6.6kW (medium) | 208/240 VAC at 40 Amps | <input type="checkbox"/> |
| Level 2 – 9.6kW (high) | 208/240 VAC at 50 Amps | <input type="checkbox"/> |
| Level 2 – 19.2kW (highest) | 208/240 VAC at 100 Amps | <input type="checkbox"/> |
| Other (provide detail): _____ | Provide rating: _____ | <input type="checkbox"/> |

PERMIT APPLICATION

| | | |
|--|----------------------------|----------------------------|
| A. Is the application complete with the following information: Project address, parcel #, builder/owner name, contractor name, valid contractor's license #, phone numbers, etc. | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Does the application include EVCS manufacturer's specs and installation guidelines | <input type="checkbox"/> Y | <input type="checkbox"/> N |

ELECTRIC LOAD CALCULATION WORKSHEET

| | | |
|--|----------------------------|----------------------------|
| A. Is an electrical load calculation worksheet included? (CEC 220) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Based on the load calculation worksheet, is a new electrical service panel upgrade required | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, do plans include the electrical service panel upgrade | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| C. Is the charging circuit appropriately sized for a continuous load (125%) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| D. If charging equipment proposed is a Level 2 – 9.6 kW station with a circuit rating of 50 Amps or higher, is a completed circuit card with electrical calculations included with the single line diagram | <input type="checkbox"/> Y | <input type="checkbox"/> N |

SITE PLAN & SINGLE LINE DRAWING

| | | |
|---|----------------------------|----------------------------|
| A. Is a site plan and electrical plan with a single-line diagram included with the permit application | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If mechanical ventilation requirements are triggered for indoor venting requirements (CEC 625.29 (D)), is a mechanical plan included with the permit application | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Is the site plan fully dimensioned and drawn to scale | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Showing location, size, and use of all structures | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Showing location of electrical panel to charging system | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 3) Showing type of charging system and mounting | <input type="checkbox"/> Y | <input type="checkbox"/> N |

COMPLIANCE WITH 2013 CALIFORNIA ELECTRICAL CODE (TITLE 24, PART 3)

| | | |
|--|----------------------------|----------------------------|
| A. Does the plan include EVCS manufacturer's specs and installation guidelines | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Does the electrical plan identify the amperage and location of existing electrical service panel | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, does the existing panel schedule show room for additional breakers | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| C. Is the charging unit rated more than 60 amps or more than 150V to ground | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, are disconnecting means provided in a readily accessible location in line of site and within 50' of EVCS. (CEC 625.23) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| D. Does the charging equipment have a Nationally Recognized Testing Laboratory (NRTL) approved listing mark. (UL 2202/UL 2200) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| E. If trenching is required, is the trenching detail called out | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Is the trenching in compliance with electrical feeder requirements from structure to structure (CEC 225) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Is the trenching in compliance of minimum cover requirements for wiring methods or circuits (18" for direct burial per CEC 300) | <input type="checkbox"/> Y | <input type="checkbox"/> N |

COMPLIANCE WITH 2013 MANDATORY CALGREEN CODE FOR NEW CONSTRUCTION

| | | |
|---|----------------------------|----------------------------|
| A. Do CAL Green EV Readiness installation requirements apply to this project | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Should be identified during plan review. (5.106.5.3) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Do the plans demonstrate conformance with mandatory measures for 3% of total parking spaces in lots with 51+ must be EV capable | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| * 2016 CAL Green proposed mandatory requirements – For new construction include measures for 6% of total parking spaces in lots with 10+ spaces being EV capable (Effective January 1, 2017) | <input type="checkbox"/> Y | <input type="checkbox"/> N |



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**Eligibility Checklist for Expedited
Electric Vehicle Charging Station
Non-Residential Permitting**

*This checklist is provided to determine if your application is eligible for expedited EVCS processing.
If any item is checked NO, revise design, otherwise application must go through standard review process.*

| Type of Charging Station(s) Proposed | Power Levels (proposed circuit rating) | | Check one |
|--------------------------------------|---|--|--------------------------|
| Level 1 | 110/120 volt alternating current (VAC) at 15 or 20 Amps | Commercial/Office Building | <input type="checkbox"/> |
| Level 2 – 3.3 kilowatt (kW) (Low) | 208/240 VAC at 20 or 30 Amps | Multi-Unit dwelling | <input type="checkbox"/> |
| Level 2 – 6.6 kW (medium) | 208/240 VAC at 40 Amps | Commercial Office Building | <input type="checkbox"/> |
| Level 2 – 9.6 kW (high) | 208/240 VAC at 50 Amps | Public Access | <input type="checkbox"/> |
| Level 2 – 19.2 kW (highest) | 208/240 VAC at 100 Amps | | <input type="checkbox"/> |
| DC Fast Charging | 440 or 480 VAC | Public Access/Large Com. Office Building or parks Hospitality & Recreation | <input type="checkbox"/> |
| Other (Provide Detail): | Provide Ratings: | | <input type="checkbox"/> |

PERMIT APPLICATION

| | | |
|---|----------------------------|----------------------------|
| A. Is the application complete with the following information: Project address, parcel #, builder/owner name, contractor name, valid contractor license #, phone numbers etc. | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Does the application include EVCS manufacturer's specs and installation guidelines | <input type="checkbox"/> Y | <input type="checkbox"/> N |

ELECTRIC LOAD CALCULATION WORKSHEET

| | | |
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| A. Is an electrical load calculation worksheet included? (CEC 220) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Based on the load calculation worksheet, is a new electrical service panel upgrade required | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, do plans include the electrical service panel upgrade | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| C. Is the charging circuit appropriately sized for a continuous load (125%) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| D. If charging equipment proposed is a Level 2 – 9.6 kW station with a circuit rating of 50 Amps or higher, is a completed circuit card with electrical calculations included with the single line diagram | <input type="checkbox"/> Y | <input type="checkbox"/> N |

SITE PLAN & SINGLE LINE DRAWING

| | | |
|---|----------------------------|----------------------------|
| A. Is a site plan and electrical plan with a single-line diagram included with the permit application | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If mechanical ventilation requirements are triggered for indoor venting requirements (CEC 625.29 (D)), is a mechanical plan included with the permit application | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Is the site plan fully dimensioned and drawn to scale | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Showing location, size, and use of all structures | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Showing location of electrical panel to charging system | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 3) Showing type of charging system and mounting | <input type="checkbox"/> Y | <input type="checkbox"/> N |

COMPLIANCE WITH 2013 CALIFORNIA ELECTRICAL CODE (TITLE 24, PART 3)

| | | |
|---|----------------------------|----------------------------|
| A. Does the plan include EVCS manufacturer's specs and installation guidelines | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| B. Does the electrical plan identify the amperage and location of existing electrical service panel | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, does the existing panel schedule show room for additional breakers | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| C. Is the charging unit rated more than 60 amps or more than 150V to ground | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) If yes, are disconnecting means provided in a readily accessible location in line of site and within 50' of EVCS. (CEC 625.23) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| D. Does the charging equipment have a Nationally Recognized Testing Laboratory (NRTL) approved listing mark. (UL 2202/UL 2200) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| E. If trenching is required, is the trenching detail called out | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Is the trenching in compliance with electrical feeder requirements from structure to structure? (CEC 225) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Is the trenching in compliance of minimum cover requirements for wiring methods or circuits | <input type="checkbox"/> Y | <input type="checkbox"/> N |

| | | |
|-------------------------------------|--|--|
| (18" for direct burial per CEC 300) | | |
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COMPLIANCE WITH 2013 MANDATORY CALGREEN CODE FOR NEW CONSTRUCTION

| | | |
|---|----------------------------|----------------------------|
| A. Do CAL Green EV Readiness installation requirements apply to this project | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 1) Should be identified during plan review. (5.106.5.3) | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 2) Do the plans demonstrate conformance with mandatory measures for 3% of total parking spaces in lots with 51+ must be EV capable | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| * 2016 CAL Green proposed mandatory requirements – For new construction include measures for 6% of total parking spaces in lots with 10+ spaces being EV capable (Effective January 1, 2017) | <input type="checkbox"/> Y | <input type="checkbox"/> N |