

HR Green
BUILDING AND SAFETY DEPARTMENT

PHOTO VOLTAIC CHECKLISTS

PLAN CHECK NO.: EXPIRATION DATE: STATUS: **CORRECTIONS**

PROJECT ADDRESS: DATE SUBMITTED:

WORK DESCRIPTION: Solar PV

APPLICANT NAME: TEL NO:

ADDRESS: EMAIL:

Your application for a permit, together with plans and specifications, has been examined and you are advised that the issuance of a permit is withheld for the reasons hereinafter set forth. The approval of plans and specifications does not permit the violation of any sections of the Building Code or other local ordinances or state laws.

In an effort to streamline the plan review process, please follow the steps outlined below to ensure that there is no delay in processing your application and reviewing your responses to these plan check comments.

- Revised plans shall incorporate or address all comments marked on the original checked set of plans, calculations, and this plan review checklist. Provide a written response to each comment and show where and how it has been addressed.
- Provide a written narrative response to each comment and cloud the location where and how it has been addressed. Identify the street number and detail or reference note on the revised plans where the corrections are made.

PLAN REVIEWER: Adam Tekunoff

TEL. NO.: 424-237-8395

DATE:

Should you have any questions or need clarification pertaining to the comments made on your project, you may contact the City plan check staff at Phone number 424-237-8395

- Return this Correction list and the Red Marked plans (if applicable) along with (2) three complete revised sets of plans, calculations (if applicable). Incomplete, indefinite or faded drawings or calculations will not be accepted.

REMARKS: SEE CORRECTIONS and REDLINES PLANS

A. ADMINISTRATIVE

- A1. Obtain all approvals/clearances from the following department/bureau/agency noted below. It is necessary to apply immediately for the signoff as it can take weeks or months for some departments/bureaus/agencies to review and approve the project. All required approvals/clearances must be secured prior to permit issuance.
- a. Planning .
- A2. Provide 3 sets of plans with minimum sheet size of 11" x 17" with readable letterings. Manufacturers catalogue could be 8.5" x 11".

- A3. Attach all manufacturer specification sheets, installation instructions and U.L. listings to the plans.
- A4. Plans are to be signed by State of California licensed contractor with any of the following classifications "A", "B", "C-46", "C-10", licensed electrical engineer, and/or, Engineer/Architect structural calculations documents. Provide signature and contractor license number on each sheet.

B. ARCHITECTURAL REQUIREMENTS

- B1. Submit a site plan diagram showing the projected roof plan, the location and dimension of all solar voltaic equipment and PV arrays.
- B2. Provide a partial roof framing plan. Show the new and existing supporting rafters, beams, and headers include the rafter size, span, and spacing. Identify roof sheathing and roofing materials.
ALTERNATE: Framing information is not required if arrays are supported at a maximum spacing of 4 ft.
- B3. Provide calculations by a licensed professional engineer or architect to verify supporting members are adequate for existing and proposed loads.
ALTERNATE: Calculations not required if arrays are supported at a maximum spacing of 4 ft.
- B4. Provide lateral calculations by a licensed professional engineer or architect showing that the affected existing lateral resisting elements are no more 10% overstressed in accordance to 2013 CBC. CBC 3403.4
Provide gravity load calculations showing that the affected existing gravity resisting elements are no more than 5%. CBC 3403.3
ALTERNATE: Lateral and gravity load analysis is not required if total area of arrays is less than 200 SF over a second story roof or 300 SF over a first story roof.
- B5. Detail equipment support connections to roof. Provide a detail for flashing and water proofing at system supports.
- B6. Solar Photovoltaic panels shall not obstruct the function of plumbing vents or mechanical equipment. CPC 901.1, CMC 304.

C. 2013 CALIFORNIA FIRE CODE, Parts 2, 2.5 and 9 of Title 24

- C1. Provide 3-foot access pathway away from applicable eave to hip/ridge/valley features.
- C2. PV arrays should not be located higher than 3 feet below the ridge.

D. MANDATORY REQUIREMENTS FOR SOLAR READY BUILDINGS

- D1. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete on or after January 1, 2014, shall comply with the requirements of 2013 California Energy Code, Section 110.10(b) through 110.10(d).
- D2. Low-rise multi-family buildings shall comply with the requirements of 2013 California Energy Code, Section 110.10(b) through 110.10(d).
- D3. Hotel-Motel occupancies and High-rise multifamily buildings with 10 stories or fewer shall comply with the requirements of 2013 California Energy Code, Section 110.10(b) through 110.10(d).
- D4. All other nonresidential buildings with 3 stories or fewer shall comply with the requirements of 2013 California Energy Code, Section 110.10(b) through 110.10(d).

E. ELECTRICAL REQUIREMENTS

- E1. Provide Electrical drawings to show compliance with 2013 CEC Article 690.
- E2. Show the locations and size of the main service or utility disconnect.
- E3. Reflect on plan the total number of modules, number of modules per string, and the total number of strings.
- E4. Specify the make and model of inverter(s) and/or combiner box if used.
- E5. Provide a Single-line diagram system.
- E6. Specify ground/bonding, conductor type and size, conduit type and size, and number of conductors in each section of conduit. PV array should be properly grounded.
- E7. The OCPD connected to the AC output of the inverter shall be rated at least 125%t of maximum current

on sign and no larger than the maximum OCPD on the inverter listing label.

- E8. Provide warning labels of equipment to be installed at the following locations:
- | | |
|--|-------------------|
| A. Bipolar Source and Output Circuits. CEC 690.7(E)3 | F. CEC 690.52 |
| B. Single 120-Volt Supply. CEC 600.10(C). | G. CEC 690.53 |
| C. Switch or Circuit Breaker. CEC 690.17 | H. CEC 690.54 |
| D. Photovoltaic power Source. CEC 690.35(F) | I. CEC 705.12.D.7 |
| E. CEC 690.5(C) | J. CEC 690.14(C)2 |
- E9. Provide a site directory placard installed at the overcurrent device showing the location of each disconnecting means more than 6 feet from overcurrent device.. CEC 690.16(B)
- E10. Show on plan the required ground-fault protection device for all photovoltaic source and output circuits. CEC 690.35(C)

END OF PLAN REVIEW