GENERAL NOTES

Solar Photovoltaic System to be installed on residential structure.

Design complying with the latest edition of California Electrical Code, Inc. the San Diego area electrical news letters and all local ordinances and policies.

This project has been designed in compliance with the NEC section 680 to withstand a minimum 85 mph wind load.

The house is . . . . . . . . . . story(ies) tall.

The rafters are . . . . . . . . and . . . . . . inches on center.

This system will not be inter-connected until approval from the local jurisdiction and the utility is obtained.

This system is an utility interactive system with no storage batteries.

The solar photo voltaic installation shall not obstruct any plumbing, mechanical or building roof vents.

If the existing main service panel does not have verifiable grounding electrode, it is the contractor’s responsibility to install a supplemental grounding electrode.

Each module will be grounded using the supplied connections points identified on the module and the manufacturer’s installation instructions.

A ladder shall be in place for inspection in compliance with Cal-OSHA regulations.

Proper access and working clearance will be provided as per section 110.26 NEC.

NOTE: All italic fonts shall be modified to reflect actual project specific details.

CITY OF SAN DIEGO RESIDENTAL PV PLAN TEMPLATE

PROJECT NAME
PROJECT NUMBER
OWNER
ARCHITECT
ENGINEER
DATE
SHEET
PV-1
**NOTE:**
1. This is only a sample for the mounting. Show exact mounting detail as applies to your project.
2. All italic fonts shall be modified to reflect actual project specific details.
1. All plaques and signs required by the latest edition of California Electrical Code and the San Diego Area Electrical Newsletter will be installed as required.

2. Alternate power source placard shall be metallic or plastic, engraved or machine printed letters in a contrasting color to the plaque. This plaque will be attached by pop rivets or other approved method. If exposed to sunlight, it shall be UV resistant.

3. Photovoltaic DC conductors entering the building shall be installed in metal conduit and the conduit shall be labeled, “CAUTION DC CIRCUIT” or equivalent every 10 feet.

4. Exposed non-current carrying metal parts of module frames, equipment, and conductor enclosures shall be grounded in accordance with 250.134 or 250.136 (A) regardless of voltage.

5. Each module shall be grounded using the supplied connection point identified on the module and the manufacturer’s instructions.

6. If the existing grounding electrode system cannot be verified or on metal roof wiring plans, it is the contractor’s responsibility to install a supplemental grounding electrode.

7. The inverter shall be listed as a utility interactive unit installed on the same building as the modules but not on the roof.

8. The inverter output circuit conductors shall terminate within the service panel in accordance with CEC 690.11.

9. All equipment shall be installed in accordance with the manufacturer’s approved installation instructions. A copy of these instructions are included as part of this plan.

10. All equipment shall comply with CEC 690.64.(B)(7).

11. All equipment shall comply with the manufacturer’s approved installation instructions. A copy of these instructions are included as part of this plan.

12. All equipment shall have a short circuit rating not less than the available short circuit current at their input terminals.

13. The inverter shall comply with CEC 690.11.
LOCATION OF OCPD SHALL COMPLY WITH CEC 705.12

1. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF CALIFORNIA ELECTRICAL CODE AND THE SAN DIEGO AREA ELECTRICAL NEWSLETTER, WILL BE INSTALLED AS REQUIRED.

2. ALTERNATE POWER SOURCE PLACARD SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED LETTERS IN A CONTRASTING COLOR TO THE PLAQUE. THIS PLAQUE WILL BE ATTACHED BY POP RIVETS OR SCREWS IN A ORDER APPROVED METHOD. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANCE.

3. PHOTOVOLTAIC DC CONDUCTORS ENTERING THE BUILDING SHALL BE INSTALLED IN METAL CONDUIT AND THE CONDUIT SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIVALENT EVERY 10 FT.

4. EXPOSED NON-CURRENT CARRYING METAL PARTS OF MODULE FRAMES, EQUIPMENTS, AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136 (A) REGARDLESS OF VOLTAGE.

5. EACH MODULE SHALL BE GROUNDED USING THE SUPPLIED CONNECTION POINT IDENTIFIED ON THE MODULE AND THE MANUFACTURER'S INSTRUCTIONS.

6. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.

7. THE INVERTER SHALL BE LISTED AS A UTILITY INTERACTIVE.

8. UNIT INSTALLED ON THE SAME BUILDING AS THE MODULES BUT NOT ON THE ROOF.

9. THE INVERTER OUTPUT CIRCUIT CONDUCTORS SHALL TERMINATE WITHIN THE SERVICE PANEL IN ACCORDANCE WITH CEC 690.64(B)(7).

10. BACKFEED BREAKERS IN THE SERVICE PANEL SHALL BE SUITABLE AS SUCH.

11. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED INSTALLATION INSTRUCTIONS. A COPY OF THESE INSTRUCTIONS ARE INCLUDED AS PART OF THIS PLAN.

12. ALL EQUIPMENT AND WIRING SHALL BE LISTED BY NATIONAL RECOGNIZED TESTING AGENCY.

13. USE MINIMUM 8 AWG EQUIPMENT GROUNDING CONDUCTOR (EGC) WHEN IT IS SUBJECT TO PHYSICAL DAMAGE, OR INSTALL THE EGC IN AN APPROVED RACEWAY.

14. ALL WIRING SHALL BE OF COPPER MATERIAL, AND KEPT OUTSIDE OF THE BUILDING.

15. ALL ELECTRICAL EQUIPMENT INCLUDING THE SERVICE SHALL HAVE A LEGIBLE, VISIBLE, AND DURABLE MARKING INDICATING THE MANUFACTURER NAME, CURRENT, VOLTAGE, FREQUENCY, AND NUMBER OF PHASES.

16. EACH INSTALLED EQUIPMENT, WIRING AND OVERCURRENT PROTECTIVE DEVICE (OCPD) SHALL HAVE A SHORT CIRCUIT RATING NOT LESS THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THEIR INPUT TERMINALS.

17. THE INVERTER SHALL COMPLY ACCORDANCE WITH CEC 590.11.
ROOF ACCESS--RESIDENTIAL HIPS AND VALLEYS (CFC 605.11.3.2.3)

1.5' SPACE ON EITHER SIDE OF A HIP OR VALLEY.

PV ARRAY CAN GO TO THE CENTER OF THE HIP OR VALLEY IF THE HIP OR VALLEY IS OF EQUAL LENGTH ON ADJACENT FACES AND NO MODULES ARE ON THE ADJACENT FACE.

ROOF ACCESS--RESIDENTIAL HIP ROOF LAYOUTS (CFC 605.11.3.2.1)

- SINGLE HIP NEEDS ONE 3' PATHWAY ON ARRAY FACES. PATHWAY SHOULD BE ALONG A STRUCTURALLY STRONG LOCATION SUCH AS A LOAD BEARING WALL.

CFC ADDS A STATEMENT THAT LADDER LOCATIONS CANNOT BE IN FRONT OF WINDOWS OR DOORS AND CANNOT CONFLICT WITH TREE LIMBS, WIRES, OR SIGNS.

ROOF ACCESS--RESIDENTIAL WITH SINGLE RIDGE (CFC 605.11.3.2.2)

- SINGLE RIDGE NEEDS TWO 3' PATHWAYS ON ARRAY FACES ALONG EDGE OF LOAD BEARING EXTERIOR WALL.

INDICATE ON THE PLAN FIRE ACCESS POINT PER (CFC 605.11.3.2.1)