CODE INFORMATION 2019 CALIFORNIA BUILDING CODE (CBC)

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2019 CALIFORNIA RESIDENTIAL CODE (CRC)
2019 CALIFORNIA FIRE CODE (CFC)
2019 CALIFORNIA ELECTRICAL CODE (CEC)
2019 CALIFORNIA MECHANICAL CODE (CMC)
2019 CALIFORNIA PLUMBING CODE (CPC)
2019 CALIFORNIA ENERGY CODE (CEnC)
2017 NATIONAL ELECTRICAL CODE (NEC)

CONTRACTOR

FIRM NAME AND ADDRESS:

Solar Optimum,Inc.

Address:

614 W. Colorado St., Glendale, CA 91204

Phone Number:

(818)745-1475

Lic# 972228, Class C-10



Signature with Seal

Solar Individual Permit Package

TERESA STARK

6.40 KW Grid Tied Photovoltaic System

11683 VIA RANCHO SAN DIEGO, EL CAJON, CA 92019

Rev		Description	Date
DATE DRAWN		4.13.2022	
DRAWN BY		FINS	
SCALE		AS INDICATED	

SHEET

SOLAR A-0

BUILDING INFORMATION

2 STORY HOUSE SINGLE FAMILY RESIDENCE CONSTRUCTION TYPE: V-B OCCUPANCY: R3 ROOF: S-TILE APN: 5022823500

SHEET INDEX

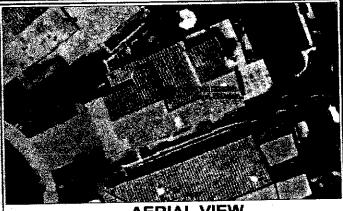
SOLAR A-0 COVER SHEET
SOLAR A-1 SIGNED LAYOUT
SOLAR A-2 ARRAY LAYOUT
SOLAR A-3 PROPERTY PLAN
SOLAR S-1 STRUCTURAL INFO

SOLAR S-1 STRUCTURAL INFORMATION SOLAR E-1 SINGLE LINE DIAGRAM CODE REQUIRED SIGNAGE EQUIPMENT SPEC SHEETS

© 7682 (Ne Rancho Sur Drego, El Cajin No. Republication of the Rancho

VICINITY MAP

SCALE: NTS



AERIAL VIEW

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PONSIBILITY

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SOLAR INDIVIDUAL PERMIT PACKA TERESA STARK

6.40 KW GRID TIED PHOTOVOLTAIC SYST 11683 VIA RANCHO SAN DIEGO, EL CAJON, AHJ:SAN DIEGO COUNTY

PHOTOVOLATAIC SYSTEM SUMMARY GOAL (TOTAL KWH CONSUMPTION): 8332 KWh PV PRODUCTION: 8810 KWh

AC SYSTEM SIZE = ((381 X 16 X 0.97) / 1000) = 5.913 KW AC

DC SIZE: 16 X 400 = 6.40 KW DC

(N) 16 REC400A PURE (400W) PV MODULES

(N) 16 ENPHASE ENERGY IQ8M-72-2-US MICRO INVERTERS

(N) 01 50A EV OUTLET

UNIRAC SOLARMOUNT RACKING SYSTEM

ELECTRICAL INFORM

1 PHASE/ 3W / 120/240V

MAIN SERVICE PANEL BUS SIZE: 225A

MAIN SERVICE BREAKER SIZE: (N)200/

UTILITY: SDG&E

GENERAL NOTES

- 1. THE CONTRACTOR/INSTALLER OF THE SOLAR PV SYSTEM OVER EXISTING ROOF SHALL CONFIRM TO OSHA REQUIRE: CONSTRUCTION PHASE. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CON 2. IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND ELECTRICAL DRAWINGS, THE MOST RIGID REQUIRE! 3. THE CONTRACTOR/INSTALLER SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ROOF TO AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATIONS OF PV SYSTEM.
- THE CONTRACTOR/INSTALLER SHALL VERIFY AND COORDINATE EXISTING OPENINGS, ROOF TOP UNITS, VENT PIPES, ETC. SHOWN ON DRAWINGS, IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR: RESPONSIBILITY TO NOTIFY ENGINEER PRIOR TO PERFORMING THE WORK.
- 5. ALL CONSTRUCTION IS TO BE PERFORMED IN STRICT CONFORMANCE WITH ALL APPLICABLE TOWN. COUNTY & STATE REGULATIONS AND/OR ANY OTHER GOVERNING BODIES.
- 6. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS, CONTRACTOR MUST CONDUCT ROOF SURVEY TO VERIFY DIMENSIONS SHOWN ON PLAN PRIOR TO INSTALLATION. IF THERE IS A DISCREPANCY IT IS CONTRACTOR/INST/ TO NOTIFY THE ENGINEER IMMEDIATELY.
- 7. EACH MODULE TO BE GROUNDED USING THE SUPPLIED CONNECTION POINT PER MANUFACTURER'S REQUIREMENT! EQUIPMENT, AND METALLIC COMPONENTS ARE TO BE BONDED. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAL IS ONLY METALLIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUND! 8. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF NATIONAL ELECTRICAL CODE, LABEL SHALL BE 1 ENGRAVED OR MACHINE PRINTED IN A CONTRASTING COLOR TO THE PLAQUE, PLAQUE SHALL BE UV RESISTANT IF EXI 9. DC CONDUCTORS SHALL BE RUN IN EMT AND SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIV. EVERY 5 FT.
- 10. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136(A).
- 11. CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE PRIOR TO CONNECTING INVERTER, VERIFY SERVICE V INVERTER VOLTAGE OPERATIONAL RANGE.
- 12. OUTDOOR EQUIPMENT SHALL BE NEMA-3R RATED OR BETTER.
- 13. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED F 14. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SU ROOF-MOUNTED SYSTEMS, WIRING MUST BE PERMANENTLY AND COMPLETELY HELP OFF OF THE ROOF SURFACE. NET 15. ALL ROOF PENETRATIONS MUST BE FLASHED. SIMPLY CAULKING DOES NOT SUFFICE.
- 16.PV INSTALLATION SHALL COMPLY WITH ARTICLE 690 OF 2019 CEC, CRC REQUIRES THAT SMOKE ALARMS AND CARBO ARE RETROFITTED INTO EXISTING DWELLING, THE REQUIRED SMOKE ALARMS AND CARBON MONOXIDE DETECTORS 13 REQUIRED PER SECTION R314 & R315 WITHIN THE CALIFORNIA RESIDENTIAL CODE.