

# ***Photovoltaic System Electrical Permit Requirements...***

## **Please include the following information with your PV application.**

1. A basic site diagram detailing the location of the major components of the system.
2. Ground mounted systems will require an ***As Built/A2 survey*** showing the exact location of the proposed PV system.
3. An electrical line diagram showing details of all major field installed components. The diagram must have sufficient detail to call out electrical components, the wire types and sizes and the number of wires in the conduits.
4. Submission shall include detailed module information, series/parallel configuration of modules, and type/size of junction or conductor boxes. Also include the details of the equipment grounding of the PV array and the system grounding of the inverter.
5. Electrical details shall include the following;
  - A. Capacity of existing electrical service.
  - B. Location of the inverter(s)
  - C. Total number of modules.
  - D. Number of modules per string.
  - E. Wiring configuration of modules.
  - F. Maximum voltage of any string including cold weather factors.
  - G. Operating current of parallel connected strings.
  - H. Location of grid tie with connection details
  - I. Type and sizes of any over current devices used in the system.
  - J. Grounding.
6. Provide cut sheets for the following with your permit application;
  - A. Inverter(s)
  - B. Module nameplate information.
  - C. Racking information, including installation instructions.
  - D. Engineering assessment shall be included with all permit applications.

## ***7. BUILDING PERMIT IS REQUIRED WHEN PERFORMING ANY/ALL STRUCTURAL UPGRADES..***

***\*\*ANY DEVIATION FROM SUBMITTED PLANS WILL REQUIRE TO BE UPDATED BEFORE ANY EQUIPMENT IS INSTALLED\*\****

## **REQUIREMENTS FOR THE INSTALLATION OF ELECTRIC HEAT IN EXISTING BUILDINGS...**

1. Provide a load calculation detailing the existing building service load and the new service load with the addition of the electric heat.
2. Provide a heat loss calculation for all individual residential living units.