

CITY OF MURPHY

SOLAR PANEL PERMIT REQUIREMENTS

1. Complete and submit a permit application. A licensed electrician will be required to pull the permit.
2. Submit two (2) site plans (a survey plat is required) showing the proposed location of the solar panels with respect to the property lines, easements and house.
3. Please see the Solar Panel Installation Guide for material and installation requirements
4. Permit fee- See Murphy Code of Ordinances, Article A9.000 Building, Construction and Development Related Fees



Solar Panel Guide

This is a guide to assist in the plan review, permit, and inspection process for the installation of a residential solar panel system. Listed below are the required components to be included in drawings to obtain permits, and the items that the city inspectors will be verifying in the field during the inspection process.

Panels must be installed flat on a pitched roof and aligned with the roof natural edges.

Plan Requirements

When equipment is installed on an existing structure, include a letter from a structural engineer indicating that the existing structure is sufficient to support the new loads associated with the additional weight and wind resistance (minimum 90 mph wind speed design).

Structural plans designed and sealed by a Texas Professional Engineer for securing the panels to the existing structure or to a new foundation or structure shall be submitted.

Electrical solar panel work shall comply with Article 690, 2017 NEC. The panels shall comply with UL Standard 1703.

At minimum, the following shall be indicated on the plans (including a site or roof plan) to be confirmed during inspection:

- *Panel Layout
- *Mounting Structure & Anchors
- *Roof Penetrations
- *Grounding Points
- *Conductor Size & Type
- *Conductor Insulation Type
- *Over Current Protection
- *Charge Controllers
- *Disconnect Size & Type
- *Inverter Size & Type
- *Battery(ies) Size & Type



Please keep the manufacturer's installation manual and the permit drawings must be on the jobsite at all times during the inspection process. The inspection requirements for residential solar panels will be based on the approved plans, the manufacturer's installation manual, and the 2017 NEC, whichever is more restrictive. Applicant shall provide access for inspectors to review the installation.