

Storey County Community Development



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Residential PV / Solar Ground and Roof Mount Requirements

Code requirements: 2018 International Residential Code & 2017 National Electrical Code

Plan Submittal Requirements:

- Site plan diagram showing arrangement of panels on roof or ground, location of equipment, show location of panels in relation to house, property lines and any other identifying structures on the property. (We need to verify the location of the panels and that they will be within the setbacks).
- Please identify what **kw** your system will be on your site plan. Include your property address on all plan sets. Plans shall be signed and dated by the plan set author.
- Show labeling requirements on plan submittal. Per 2017 NEC.
- Electrical schematic diagram of system.
- All solar panels, inverters, batteries, racking, and associated equipment shall be UL listed.
- Equipment cut sheets. Include in submittal: make, model number, data sheets and installation specs from manufacture for all: solar panels, inverters, batteries, and racking systems. (Highlight particular model numbers or note on plans.)
- Please include manufacture installation specs on racking / mounting system. Footings, piers, structural framing specs, etc.
- **Roof Mount solar systems:** require an engineer's letter or stamped plans submitted indicating the dwelling roof is capable of handling the additional live load. Roof mount site plan required. Please show ordination of panels on roof top with relations to the required roof / panel setbacks.
- Keep in mind of Storey County's seismic design criteria: Snow load, wind speed, risk category and seismic zone. (See attached residential building requirements)

Wind speed: 110mph

Snow load 70-90psf in the highlands depending on your elevation.

Risk category II

Seismic Design category: D2

Frost depth for footings minimum 24" (most likely your piers for a ground mount system will be deeper than this).

Inspection Requirements:

- Plot walk inspection. (Have panel / array location staked prior to inspection).
- Footing inspection for piers on ground mount system.
- Rough electrical inspection.
- Final solar inspection.