

SOLAR PV SYSTEMS

General Requirements:

- Completed building permit application at http://www.libertymissouri.gov/permits_licenses
- Approval by Planning and Building Divisions
- Approval by Electrical utility provider
- Properties located within the Historic District must be approved for a Certificate of Appropriateness
- Qualified installer (licensed electrician) or equivalent
- Shall meet all the requirements of the 2017 NEC

NOTE: Plumbing vent termination is not allowed to remain under solar installations. Vent termination to be protected or relocated, as per the 2018

Submit with Building Permit Application:

1. Site Plan – location, aerial view.
2. PV Panel Array Plan – dimensions, location of photovoltaic panel array.
3. Location of Equipment with elevations – Provide listings of all equipment:
 - a. Combiner
 - b. Inverters
 - c. Disconnects & over current protection
4. Calculation requirements:
 - a. Roof Load Calculations
 - b. Wind Load Calculations
 - c. Point Load Calculations
 - d. Uplift
 - e. Connector type and specs
 - f. Mounting details
5. Array wiring diagram: show specific wiring sizes, wiring types to J-Box.
6. DC to AC wiring diagram for equipment: show wiring sizes, types & locations.
7. Equipment labeling required as per the 2017 NEC
8. All PV systems over 10KW are required to be engineered and wet sealed.



SOLAR PV SYSTEMS

Installation Requirements:

1. Solar collectors mounted in a yard must be installed in the back yard, cannot exceed eight (8) feet in height and cannot be visible from a public street.
2. Solar collectors mounted on the roof:
 - a. Can't be mounted in such a way that any portion sits higher than the highest point of the roof pitch or gable on which it's mounted.
 - b. If mounted on the street-facing side of a roof, it must be mounted flush with the roof.
3. Must have all components servicing the collector panels concealed and all exposed metal camouflaged to match the house.
4. All transfer wiring shall be located underground.
5. Utility boxes or cabinets must be located underground or otherwise screened from view.
6. Once the solar collector goes out of use, it must be removed within one (1) year.
7. A solar collector which does not meet these regulations or a solar collector intended for commercial use must be approved for a Special Use Permit by City Council.
8. The solar collector must be used only for the powering of the house or building it services. Unused or incidental power may be legally sold back to the power company

