

**IOSCO COUNTY DEPT. OF BUILDING & SAFETY INSPECTION**  
**420 W. LAKE STREET, P.O. BOX 88,**  
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**GENERAL REQUIREMENTS FOR ELECTRICAL INSTALLATION- 1&2 FAMILY DWELLING BASED ON 1999 ELECTRIC CODE**

1. **METER BASE LOCATION:** Check with local electric Company, (Consumers Power Company).
2. **SERVICE LOCATION:** Inside or outside of Building at an **Accessible location** nearest the point of entrance of the service-entrance conductors. **Not in Clothes Closet or Bathroom areas.**
3. **SERVICE GROUNDING:** All service enclosures shall be bonded. Service shall be bonded to metallic water line and supplemented with approved grounding electrode. Wire size should be a minimum size of #6 copper. Grounding conductors subject to mechanical injury shall be protected. Can not run ground wire through meter can from ground rod. Grounding shall be accomplished with Two (2) 8' metal Ground Rods Installed 72" apart & connected with proper size wire for the Service Installation.
4. **RECEPTACLE OUTLETS REQUIRED:** Outlets should be installed every 12' (minimum).
5. **KITCHEN AND DINING AREAS:** There shall be a **minimum** of two (2) 20 Amp circuits required for **small appliances**. Kitchen and Dining Areas, a receptacle outlet shall be installed at each counter space 12" or wider. Refrigerators, Dishwashers, Garbage disposals, & Lighting are not to be included on these small appliance circuits. All kitchen counter top receptacles shall be GFI Protected. Kitchen counter top outlets shall be placed every Four (4) Ft.
  - a. **Wall Counter space.** A receptacle outlet shall installed at each wall counter space that is 12" or wider. Receptacle outlets shall be installed so that no point along the wall line is more than 24" measured horizontally from a receptacle outlet in that space.
  - b. **Island Counter Spaces.** At least one receptacle outlet shall be installed at each island counter space with a long dimension of 24" or greater and a short dimension of 12" or greater.
  - c. **Peninsular Counter Spaces.** At least one receptacle outlet shall be installed at each peninsular counter space with a long dimension of 24" or greater and a short dimension of 12" or greater. A peninsular countertop is measured from the connecting edge.
  - d. **Separate Spaces.** Countertop spaces separated by range tops, refrigerator, or sinks shall be considered as separate countertop spaces in applying the requirements of (a), (b), (c).
  - e. **Receptacle Outlet Location.** Receptacle outlets shall be located above, but not more than 18" above the countertop. Receptacle outlets shall not be installed in a face-up position in the work surfaces or countertops. Receptacles outlets rendered not readily accessible by appliances fastened in place or appliances occupying dedicated space shall not be considered as these required outlets
6. **GARAGE, BASEMENT, OUTDOOR RECEPTICALS:** At least one receptacle shall be installed in the Garage, Basement, & Two (2) Exterior for General use. These Receptacles shall have **Ground Fault Protection**, **Exception:** Those receptacles in Garages & Basements occupying dedicated space and those receptacles used for refrigeration equipment.

7. BATHROOMS: At least one receptacle on 20 Amp circuit GFI Protected for personal portable equipment. No lights or fans can be supplied from that circuit.
8. SPECIAL APPLIANCES: Outlets in other sections of the dwelling for special appliances, such as Laundry equipment shall be installed on a 20 Amp dedicated circuit within six (6) Ft. of the Intended location. One 20 Amp Laundry Circuit shall have no other outlets on that circuit.
9. ELECTRIC SMOKE ALARMS: **Interlocked** electric smoke alarms with battery backup shall be installed **on all floors** of single family dwellings, & in **all sleeping areas**. Side Wall Mounting should be located approx 11” from ceiling , Ideally in the middle of the room. .
10. LIGHTING OUTLETS REQUIRED: AT Least one wall switch controlled lighting outlet shall be installed in every habitable room, Hallways, Stairways, Bathrooms, and Attached Garages; And at Outdoor entrances. At Least one lighting outlet shall be installed in an Attic, Underfloor space, Utility room and Basement used for Storage or containing equipment requiring Serviceing.  
**Exception:** In Habitable rooms, other than kitchens and bathrooms, one or more receptacles controlled by a wall switch shall be permitted in lieu of lighting outlets. No wire conductor size shall be changed in any circuit. **All junction boxes must be accessible !!**
11. CLOSET LIGHTS: Incandescent Fixtures shall be enclosed and not located over shelving.
12. ARC-FAULT Protection is required for Bedroom convenience outlets, closet lighting, smoke detectors, or other branch circuits feed from the bedroom circuits..