

## Residential Electrical Permit Guide

As with all plan reviews, this guide is set up to give general guidelines for a residential electrical plan submittal. Please review the following guidelines and provide what may be applicable to your particular project. All electrical plan reviews will be to the latest version of the National Electrical Code, which has been adopted by in conjunction with the PA Uniform Construction Code.

Please provide the following information on the plans or in addition to the plans:

1. Plan specification: Identify plan with builder or owner name, address, lot number or description. Contact person and phone number. Show a floor plan with each story and indicate room use or name (i.e.) bedroom, closets, doors, and openings, windows, dimensions, symbol chart, circuit schedule, and wiring method.
2. Mark all location of receptacles on the plan. Install in all habitable spaces & bathrooms.
  - Wall receptacle spacing is a maximum of 6ft. from door or opening and a maximum of 12ft apart as measured along wall.
  - Kitchen receptacle spacing is a maximum of 2ft. from end of S:\Zoning and Building\Residential Electrical Permit Guide.doccounter and 4ft apart. To be installed in wall counter spaces 1ft or wider. Peninsular and island counters 24 inches or longer.
  - Bathroom receptacles to be within 36 inches of outside edge of lavatory.
  - Laundry- at least one installed within 6ft. of appliance.
  - Outdoors- at least one in front and rear of dwelling.
  - Unfinished Basements- at least one in addition to any laundry receptacles.
  - Finished basements- normal wall spacing.
  - Garages- at least one, unless detached and having no electric power.
  - Hallways over 10ft. long, at least one.
  - Mechanical- one located within 25ft of HVAC equipment.
3. Mark receptacles (or make note on circuit schedule) required to be GFCI protected (kitchen, bathroom, outdoors, garage, crawl space, bar sinks, unfinished basements).

4. Mark receptacles (or make note on circuit schedule) required to be AFCI protected (bedrooms).
5. Mark on the plan the locations of the switches & outlets or luminaries that are changed.
  - At least one wall switch controlling a lighting outlet or fixture shall be provided in each habitable room and bathroom.
  - At least one wall switch controlling a lighting outlet shall be provided in hallways, stairways, and garages unless they are detached without power.
  - Lighting outlets, wall switch with fixture, or pull chain light, for attic, utility room, and basement, under-floor space used for storage or where there is equipment that requires servicing. Such as panel box, HVAC, water heater, pump. At least one point of control near entry of space.
  - Wall switch on each floor for stairs.
  - Wall switches controlling exterior lighting outlet beside each outside at grade egress door.
6. Mark on the plan any lighting fixtures (luminaries). Luminaries are required for kitchen & bathroom.
  - Luminaries within 3 Ft. of tub/shower must be recessed or surface mount only.
  - Luminaries in closets must be 12 inches away from closet space. See for description of closet space.
7. Mark on the plan all smoke detectors. A smoke detector is required in each bedroom, outside bedrooms, and on each story. All smoke detectors shall be interconnected with battery backup.
8. Mark on the plan the location of equipment such as HVAC. Direct-wired equipment requires a visible disconnect.
9. On the circuit schedule list all circuits to be installed in home. Include the amperage rating, voltage, description or location. The following are minimum required circuits.
  - Two, 20-amp 120-volt small appliance circuits for kitchen/dining.
  - One, 20-amp 120-volt laundry circuit.
  - Branch circuit for heating.
  - One, 20-amp 120-volt bathroom circuit.
  - Receptacle or general lighting circuit.
10. Do a load calculation to determine the required service size. Mark the service panel location and size on plan.