



## Building Guide ILLOWA Chapter of ICC



# Single Family Residential Electrical Service Requirements

The following are minimum requirements for existing homes when replacing an existing electrical service:

1. Only Qualified Licensed Electrical Contractors can obtain permits
2. Ground Electrical Panel within 5 feet of incoming water Service and install water meter bonding jumper.
  - Using #6 AWG Copper wire for 100amp Service
  - Using #4 AWG Copper wire for 200amp Service
3. Ground Rod installed on outside of house with a 5/8" diameter copper, 8' ground rod. #6 AWG Copper grounding electrode conductor to the service panel not to run in service entrance conduit or in meter.
4. Provide GFCI receptacle in Bathroom(s) and within 6' of all sinks.
5. Install all required Battery Smoke and Carbon Monoxide Detectors required by the IPMC.
6. Remove any damaged or deteriorated exposed Knob & Tube wiring. All remaining Knob and tube must be on a 15 amp breaker or fuse.

DISCLAIMER: ILLOWA Chapter of the ICC has created this handout to assist with plans submittal under the 2008 National Electrical Code, and it is not intended to cover all circumstances. Please check with the Department of Building Safety for additional requirements.