

# City of Crystal Lake

## Community Development Department

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100 W. Woodstock Street  
Crystal Lake, IL 60014  
[www.crystallake.org](http://www.crystallake.org)



Phone (815) 356-3605  
Fax (815) 404-2107  
[building@crystallake.org](mailto:building@crystallake.org)

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## 100 AMP RESIDENTIAL ELECTRIC SERVICE

**Please provide the following information when applying for a permit:**

- Apply online using [City of Crystal Lake ez APP](#)  
**OR** submit a [Building Permit Application](#)  
Applications are available at City Hall or online at the City's website, [www.crystallake.org](http://www.crystallake.org).
- Two copies of a contract or proposal

### **Inspections:**

Please schedule all inspections by 4:00 P.M. the day before the inspection.

The following inspections are needed for an electric service:

- Underground electrical (if applicable)
- Rough electrical (before energizing panel)
- Final Inspection (panel to be open at time of inspection)

Please provide the following when requesting an inspection:

- Inspection type
- Address
- Date and time frame (am or pm)
- Permit number
- Name and telephone number of homeowner/contractor requesting inspection

### **Electrical requirements:**

- Use of non-metallic sheathed wiring is prohibited.
- Two ground rods located a minimum of 6 feet apart from each other are required on all electrical services.
- The continuous grounding electrode conductor at the rods shall be a minimum #8 copper and be installed in conduit to protect wire from physical damage.  
**Note:** A #6 copper electrode conductor, not installed in conduit, may be used in place of the #8 copper electrode.
- The grounding electrode conductor at the water meter shall be a minimum #8 copper and shall connect to the street side of the water meter. A jumper wire is required across the meter and the electrode must be provided with a tag identifying it as a grounding electrode.
- The service entrance conductors shall be a minimum #4 copper.
- All conductors must be identified properly.
- Please contact the Community Development Department for required burial depths of underground conductors.

Please note that the information provided in this handout is general in nature. If you have specific questions or need additional information, please contact a Community Development Department representative at (815) 356-3605 or [building@crystallake.org](mailto:building@crystallake.org).