



WHEN IS ELECTRICAL PLAN REVIEW REQUIRED?

Electrical Plan Review is required for complex structures. Oregon Administrative Rule (OAR 918-311-0040) defines "complex structures" as those having an electrical system designed, constructed or reconstructed with any of the following:

Ampacity.

- A service or feeder beginning at 400 Amps where the available fault current exceeds 10,000 Amps at 150 Volts or less to ground or exceeds 14,000 Amps for all other installations; or
- Installation of a 150 KVA or larger separately derived system as defined in Article 100 of the National Electrical Code (NEC); or
- Addition of a new motor load of 100 HP or more; or
- Fire pump installations as defined in Article 695 of the NEC; or
- Emergency systems installations as defined in Article 700 of the NEC; or
- A service or feeder rated at 600 Amps or over.

Voltage. More than 600 supply volts nominal.

Height. More than three stories.

Occupancy.

- Six or more residential units in one structure; or
- An "A" (Assembly) occupancy, "E" (Educational) occupancy, or "I-2" or "I-3" (Institutional) occupancy as defined in the adopted Oregon Structural Specialty Code; or
- Any of the following special occupancies as described in Chapter 5 of the NEC adopted by the board in OAR 918-305-0100:
 - Hazardous (Classified) locations as defined in Articles 500 to 516; or
 - Installations in patient care areas of health care facilities as defined in Article 517; or
 - Agricultural buildings used for commercial purposes, as defined in Article 547; or
 - Floating buildings as defined in Article 553; or
 - Marinas and boat yards as defined in Article 555; or
 - Recreational Vehicle Park. A new recreational vehicle park, or any addition or alteration to an existing park.

Plan review is not required for work permitted through minor installation labels under OAR 918-309-0210 to 918-309-0260.

See reverse for additional information regarding electrical plan review.

WHAT STANDARDS DO ELECTRICAL PLANS NEED TO MEET?

Standardized Format for Plan Review. When electrical plan review is required the electrical plan shall meet the following requirements:

- **Copies.** Submit two sets of electrical plans;
- **Readability.** The plans shall be drawn to scale, contain definitions for legends used, be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the applicable electrical code requirements, laws, ordinances, rules and regulations;
- **Contents.** The plans shall contain the following minimum requirements:
 - Feeder riser diagram showing panel location and circuit schedules;
 - One line riser diagram showing bonding and grounding and conductor sizes;
 - Available fault current on the line side of service disconnect;
 - Complete load calculations, or provide applicable load records, for all new installations and for additions to existing installations;
 - Fixture schedule, showing type, location and layout of the fixtures;
 - Address of the installation and name of owner and address;
 - Identification of the employer, identification and signature of person who prepared the plan, license number if the person is an electrical supervisor and professional registration number if the person is an architect or registered professional electrical engineer; and
 - Location of emergency systems, identifying the power source and the system on plan.

WHO PERFORMS ELECTRICAL PLAN REVIEWS?

The electrical inspection staff performs electrical plan reviews on submitted plans.

WHO CAN I SPEAK TO REGARDING THE SPECIFICS OF MY PLANS?

If you have specific questions or wish to provide additional information regarding your submitted plans, you will need to contact the electrical inspector assigned to the project.

HOW MUCH DOES ELECTRICAL PLAN REVIEW COST?

Electrical plan review fees are 30% of the electrical permit fee (before surcharges).