Handout E.01

Electrical Permits

The following is a guideline for application for an electrical permit. Permits are considered abandoned and expired if no activity occurs within 360 days. You must do enough work within this time period to call for an inspection to prove activity. All fees are required upon submittal of application, with the exception of traffic review fees and landscape review fees which are calculated during zoning review and are payable prior to issuance of any permit.

COMMERCIAL BUILDINGS (New and Additions)

In addition to the typically provided power, lighting and signal plans, the following submissions are required:

1. The type, rating and location of available fault current from utility, service conductor size and type, provide load calculations as per NEC and show all demand factors used.
2. The type and location of grounding electrodes, size of grounding electrode conductors and taps. Location of neutral termination (detailed if necessary).
3. A feeder diagram or schedule listing each feeder, all transformer sizes and overcorrect devices and showing:
   a) The size and type of feeder overcurrent device.
   b) The size and type of feeder conductors.
   c) The size and type of feeder raceway.
   d) The location of panel boards or load centers served.
   e) The type of occupancy.
4. The intended load, if such load is greater than the computed load.
   A panel board or load center schedule listing each branch circuit and showing:
   a) The size of the branch circuit and/or feeder protective device.
   b) The type of load served, indicating whether lighting, receptacle or power outlets.
   c) The type of lighting load indicating whether it is general lighting, window or showcase lighting or special lighting.
   d) The computed load per circuit.
   e) Any additional information or detail the Municipality of Anchorage determines necessary to identify the work to be done and aid the inspector in determining if the work complies with the NEC and the local amendments to this code.
5. Indicate whether 3 phase or 1 phase power is available from the utility company. (Three phase power may be required but not available.)
6. All article 500 classified areas must be identified on plans provided by engineers.

Tenant Improvements

The criteria that apply to plan review of new or addition-type construction shall also apply to tenant improvements that are similar to new or addition-type construction. As a minimum the following is required:

1. Show any revision/addition to branch circuit wiring (power and lighting) that has altered load to that branch circuit in any way.
2. Show any revision/addition to the egress lighting (exit and emergency lighting).
3. Complete panel schedules (any affected by work being done) showing new and existing loads. It will be permissible to label existing loads as "EXISTING TO REMAIN – ETR."
4. A complete load analysis showing revisions to service load. Loads shall be calculated using NEC 220.87.
ENGINEERING REQUIREMENTS
Adding a one 1-pole, 20-ampere circuit breaker to a panel does not require an electrical engineering design. It does require an existing and proposed panel schedule to be attached to the application. Tenant remodel with no added load to panel requires layout of wiring size, dimensions, and location. An electrical engineering design and calculation will be needed when adding two or more circuit breakers to a panel.

Robert Doehl, Building Official & Director
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(Ref: 05-09; 06-04)