



## COMMERCIAL PLANS REVIEW ELECTRICAL

- Legend showing Lighting and Power symbols used on drawings.
- Electrical site plan required. Panels and service equipment must be identified and located, and **all circuits will be designated and identified on plans**, Breaker number for everything electrical with size of wire and conduit size.
- Provide **Electrical one line or Riser Diagram** of all **service equipment**: (Example: Grounding, Transformer(s), Meter(s), Main Distribution Panel, and Sub Panel(s) with conductor size/type and conduit size/type. (Note the **Existing and New Equipment**). **Information listed on the equipment should include: Volts, Amps, Phase, and AIC Rating.**
- Show all **grounding details**.
- Provide **Panel Schedule(s)** listing: MLO (Main Lug Only) or MCB (Main Circuit Breaker), Ampacity of Panel, NEMA type, Voltage, Phase, **AIC rating**, show all overcurrent protection with interrupting rating.
- Provide GFCI requirements both inside and outside.
- Provide adequate Lighting **Inside and Outside** for proper illumination as required within, and at all entry/egress locations within the area outside on building. (provide requirements for **occupant sensor** controls FBC Energy Conservation, Section C405.2.1)
- Show all **low voltage**.
- Show all **communication systems**.
- Show all **emergency systems**.
- Show all special occupancies.
- Provide **Load Calculations**.
- Location, voltage, horsepower, current, of every motor.
- Show all wiring methods and materials.
- All drawings need to be designed to FBC Energy Conservation 7th Edition (2020).
- Show NEC 2017 on plans.

**Code Reference:** FBC Building 7th Edition (2020) Section 107.3.5 NEC 2017

**This document is intended to be a guide and may not contain all requirements needed to obtain permits and approval from Manatee County.**

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