

## **DIVISION 16 - ELECTRICAL**

### **Section 16435 – Switchboards**

#### **Introduction**

There are unique University requirements.

#### **Part 1 - General**

- Refer to Appendix Section 16435 and incorporate into project.
- Provide a comprehensive specification.
- Include the following in performing the design and specifications.
  - Pull sections shall be required.
  - Top of main device shall be line side.
  - Sections shall have steel barriers or galactic barriers between each section.
  - Metering shall be cold sequence.
  - Metering shall be Veris as specified in Metering Section 16430.
  - Suppressor shall be hard bussed and mounted in its own cubicle.
  - Areas next to last section shall be planned and marked on the floor for future extension. Provide the housekeeping pad now.
  - Integrated switchboard design is discouraged unless required by the UA Electrical Engineer.
  - Bussing and system design will address coordination of devices. Designer shall provide 4 to 1 separation on motor feeder devices and transformer feeder devices, when referenced to the upstream device.
  - Transformer feeder breakers shall be electronic, and coordinated to the transformer and its inrush.
  - Consultant shall base initial coordination on Cutler Hammer, Seimens or Square D.
  - Provide electronic type breakers on devices below 200 amperes whenever clean coordination cannot be achieved, including elevator feeder breakers.
  - NEMA 1 Construction with sprinkler shield.

#### **Part 2 - Products**

- Refer to Appendix Section 16435 and incorporate into project.
- Approved manufacturers, subject to submittal review are Cutler Hammer, Siemens and Square D.

#### **Part 3 - Execution**

- Refer to Appendix Section 16435 and incorporate into project.
- Edit carefully, as required for the project.

#### **End of Section 16435**