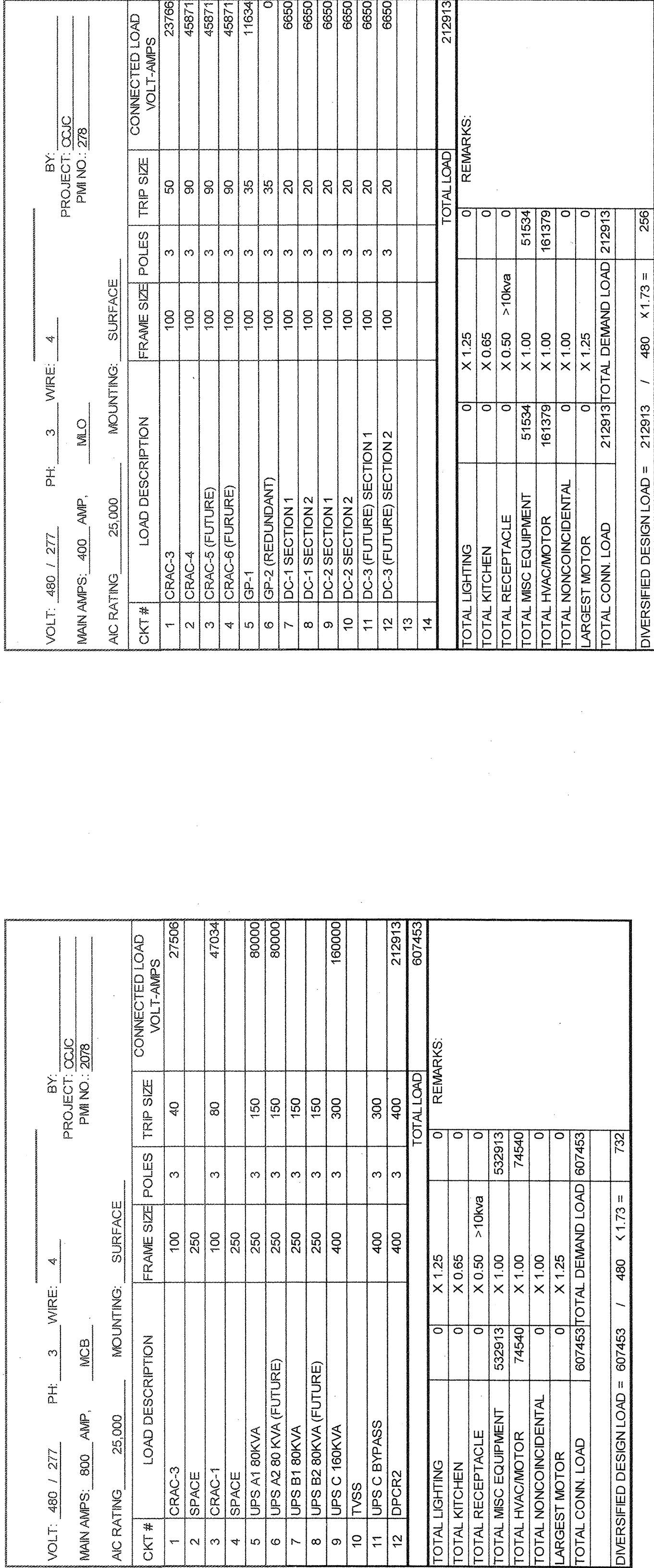
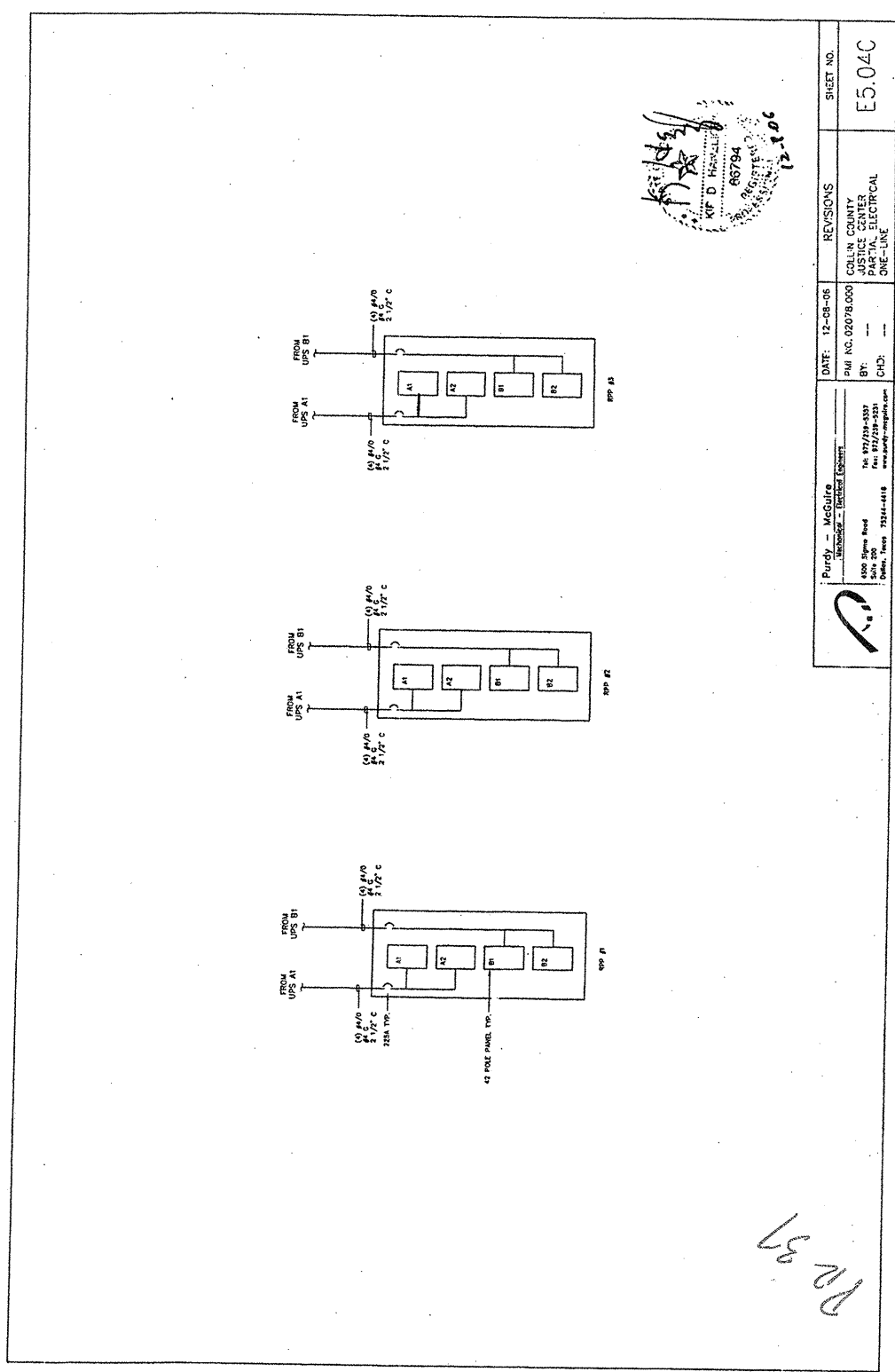
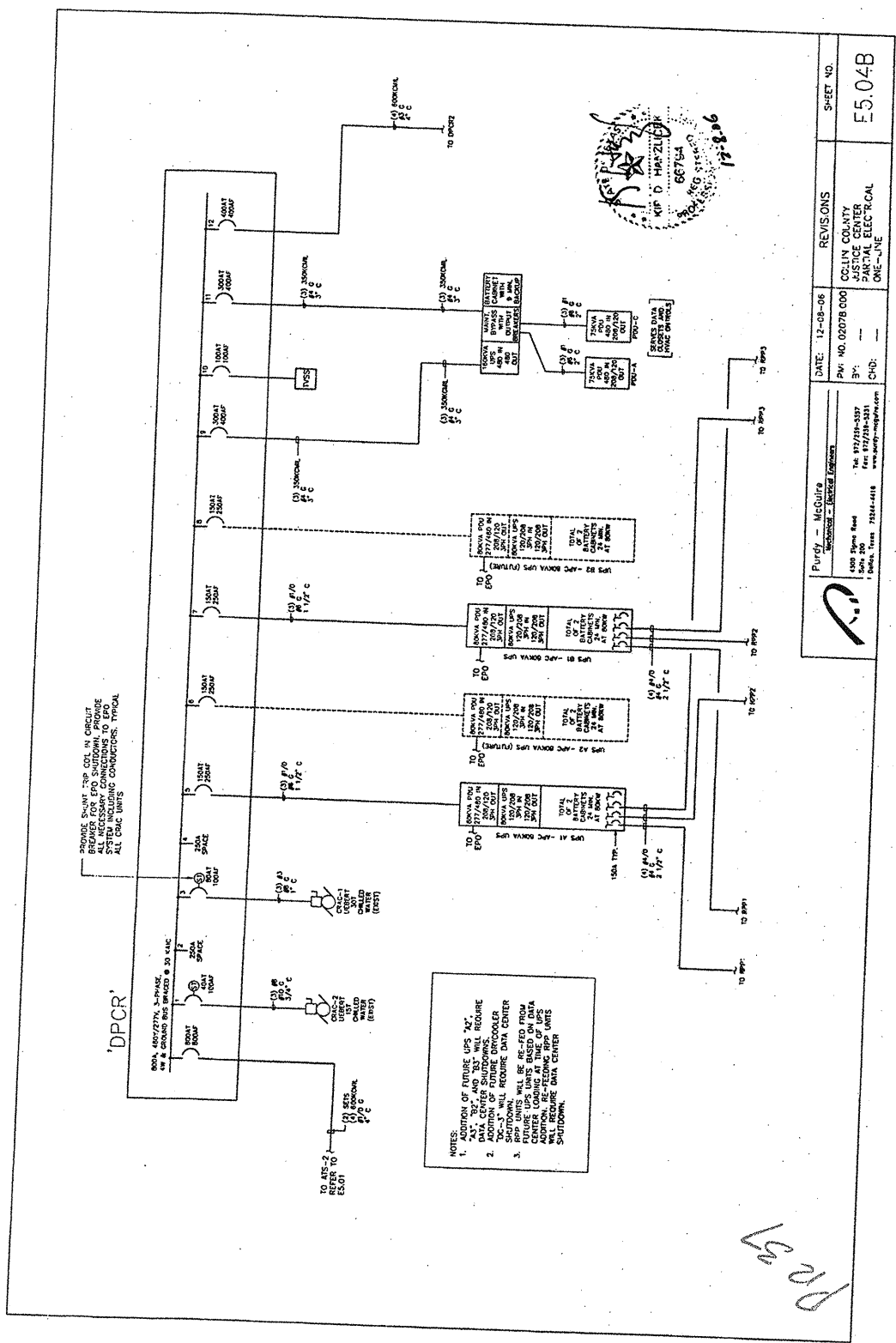
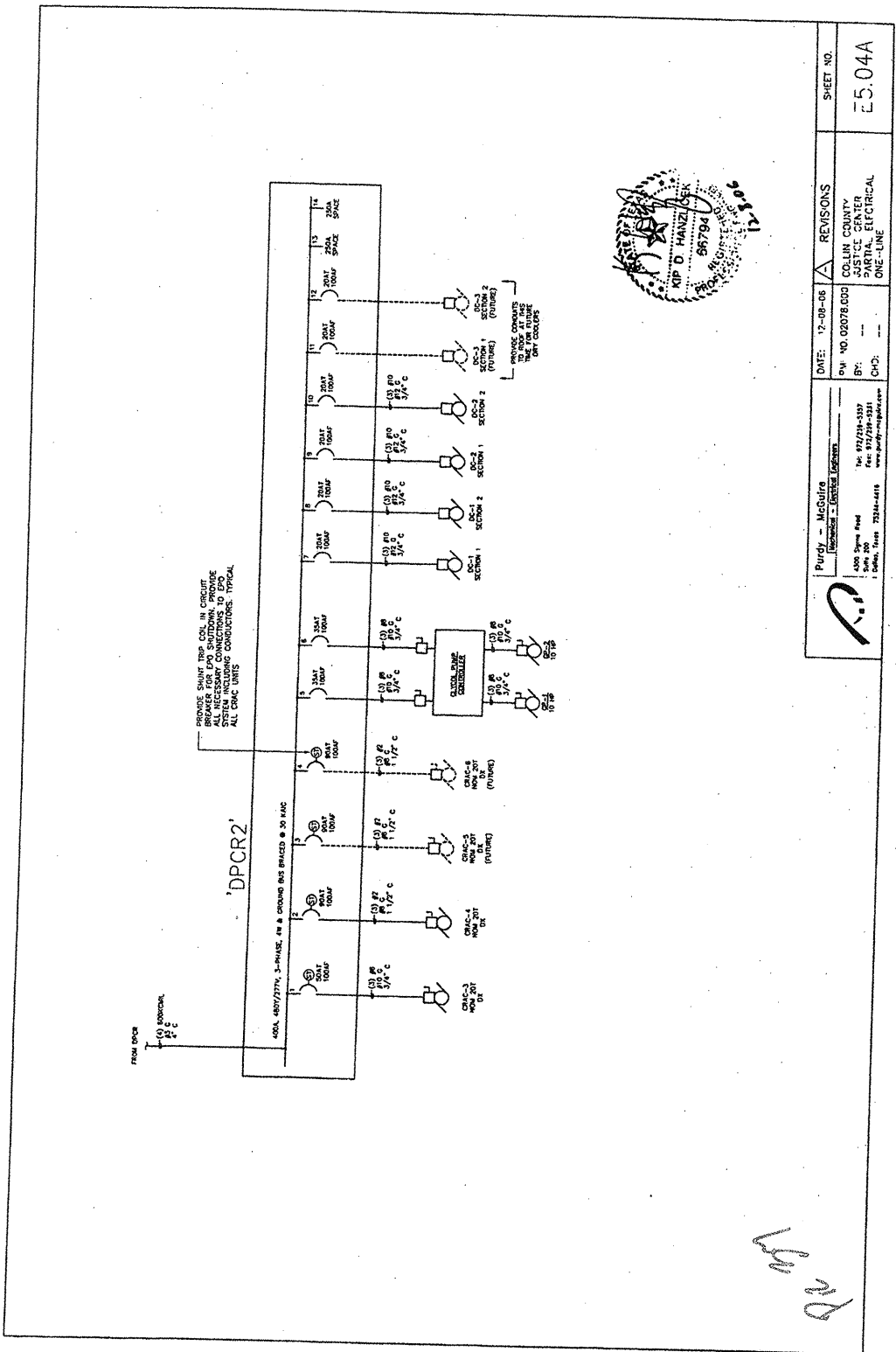






2.19 PROTECTION

- A. The UPS system shall have built-in protection to prevent permanent damage against the following:
1. Overvoltage, undervoltage and overcurrent surges introduced by the primary AC source.
 2. Overvoltage and overcurrent surges introduced on the output terminals by sources in the load, load switching and fault clearings in the distribution system of the load.
- B. The UPS system (including the battery) shall have built-in protection against permanent damage to itself and the connected load for all predictable types of failures within the UPS. Protective devices shall be provided for power semiconductors, these devices shall be configured in such a way as to prevent cascading failures. The operation of any protective device shall be so indicated by the diagnostic system.
- C. The UPS shall be provided with the means of turning off the UPS and disconnecting power to the load both locally and remotely. (Also reference 2.14.A.)

Locally - By a single operator switch.

Remote -By the opening of an external customer supplied contact (EPO).