

WVU DESIGN GUIDELINES & CONSTRUCTION STANDARDS
DIVISION 26 – ELECTRICAL

SECTION 260913 – ELECTRICAL REMOTE MONITORING

PART 1 – GENERAL

1.1 System Description

Description: Provide microprocessor-based metering equipment and all communications and graphics for system.

A. Communication Link: LAN 10Base-T copper cable or fiber optic cable.

1.2 Submittals

A. Wiring diagrams for system, including all devices, components, and auxiliary equipment. System diagram is unique to the Project system; a manufacturer's generic system diagram is *not* acceptable. Diagrams differentiate between manufacturer-installed and field-installed wiring. Include diagrams for equipment and for system with all terminals and interconnections identified.

PART 2 – PRODUCTS

2.1 Manufacturers

A. Manufacturers: Subject to compliance with requirements, provide products by the following, only:

1. EATON Cutler-Hammer

2.2 Microprocessor-based Metering Equipment

A. Eaton Power Expert Meter PXM 2270

1. Provide an EATON Cutler-Hammer type Eaton Power Expert Meter PXM 2270 with an Ethernet communication cable back to a switch having the features and functions specified below. The meter shall not be located in switch gear and needs to be externally mounted in a separate box.
2. Graphic development and implementation shall be included in meter installation by the vendor. The graphic shall mimic existing graphics located on the electrical metering Power Expert server at WVU. Eaton shall load the new graphics, set up applicable trending, and reporting on WVU's Power Expert meter server located at the Facilities Management Building.

PART 3 – EXECUTION

3.1 Installation

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- A. General: Install system according to NFPA 70, applicable codes, and manufacturer's printed instructions.
- B. Wiring Method: Install wiring in raceways. Conceal raceways except in unfinished indoor spaces.
- C. Wiring Method: Install wiring in raceways except in accessible indoor ceiling spaces. Conceal raceways and wiring except in unfinished spaces.

END OF SECTION 260913