

PART 1 GENERAL**1.1 RELATED DOCUMENTS**

- A. The requirements of the General Conditions, Supplementary Conditions and the following specification sections apply to all Work herein:
1. Section 26 00 10 - General Requirements
 2. Section 26 00 20 - Scope of Work
 3. Section 26 05 19 - Electrical Conductors - 600 Volts
 4. Section 26 05 26 - Grounding and Bonding
 5. Section 26 08 13 - Testing
 6. Section 26 23 00 - Low-Voltage Switchgear
 7. Section 26 24 13 - Switchboards – 600 Volts
 8. Section 26 25 00 - Busways

1.2 SUMMARY

- A. Furnish and install and provide all coordination necessary for the complete service entrance system including all conductors, busway, conduit, metering devices, etc. from the utility company point of service to the Project service switchboards as required by the local utility, as indicated on the Drawings and as specified herein.

1.3 REFERENCE STANDARDS

- A. All service and service entrance equipment and components shall be designed, manufactured, installed and tested in accordance with the latest applicable industry standards including the following:
1. NFPA 70 - National Electrical Code (NEC)
- B. All equipment and material to be furnished and installed on this Project shall be UL or ETL listed, in accordance with the requirements of the authorities having jurisdiction, and suitable for its intended use on this Project.

1.4 SUBMITTALS

- A. Refer to the individual Specification Sections for Submittal requirements for all Work in this Section.

1.5 WARRANTY

- A. Comply with the requirements of the General Conditions and Section 26 00 10.

PART 2 PRODUCTS**2.1 SERVICE**

- A. Electrical service for lighting and power will be furnished by the local power company from transformers located as indicated on the Drawings.
- B. The system voltage for the building will be 480Y/277 Volts, three (3) phase, four (4) conductor, 60 hertz.

2.2 UTILITY METERING

- A. Current transformers, potential transformers and/or potential taps for metering purposes will be furnished by the electrical utility for installation by the Electrical Subcontractor in the building service switchboards.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Furnish and install the building electric service busway from the main switchboard to the PG&E transformer vault as indicated on the Drawings. Provide fire safing as required to maintain the fire rating of the wall on the building side of the service entrance busway where it enters the building.
- B. Install the current transformers, potential transformers and/or potential taps as required by the utility company in the service switchboards. Coordinate all Work with the local utility.
- C. Provide and install one 1" rigid conduit from each service switchboard metering compartment to the main telecommunications rooms for remote meter reading. The Electrical Subcontractor shall verify metering requirements with PG&E prior to proceeding with this Work.

3.2 FIELD TESTING

- A. Refer to Section 26 08 13 for additional testing requirements for the service entrance apparatus.

END OF SECTION