

**SECTION 27 01 80 - TECHNOLOGY DOCUMENTATION**

**PART 1 - GENERAL**

**1.01 SUBMITTALS**

- A. Shop Drawings
  - 1. Include dimensions, wiring and block diagrams, conduit sizes, performance data, ratings, control sequences, and all other descriptive data necessary to describe the item proposed and its operating characteristics.
  - 2. Shop Drawings need to be submitted as hard copy and electronic format. Electronic format shall be ACAD 2007 or later, using the same scale as used on the bid set.
  - 3. Symbols used on the Shop Drawings shall match the symbols used on the Bid Set.
  - 4. Coordinate with other applicable trades in submittal of shop Drawings.
  - 5. Shop Drawings shall detail space conditions to accommodate other concerned trades, subject to final review by the Architect.
- B. Record Documents
  - 1. As-built plans will be completed by the contractor showing the location of all racks with elevation of rack layout.
  - 2. As-built plans completed by contractor will show port number for all installed data outlets (wall, ceiling, wireless access points, floor box, etc.)
  - 3. As-built plans completed by contractor will show major cables routes used for low voltage cabling.
  - 4. As-built plans completed by contractor will show cable route for tie cable and backbone cable at all locations (interior, exterior, or overhead).
  - 5. See Specification 270100 for additional requirements.
  - 6. As-built documents will be provided in CAD format 2007 or later.
- C. Data Sheets
  - 1. Submit complete technical data necessary to evaluate the material and equipment. Include a complete technical specification for the submitted equipment, noting differences and adherence to this Section.
  - 2. Submittals need to be clear and concise requiring no interpretation by the contractor to be clearly understood. Products to be used, within a system, shall be grouped within the submittals so the system can be clearly understood.
  - 3. Data sheets are to be submitted in Pdf, form with all items being submitted clearly indicated.
  - 4. Requirements listed in Division one could be more stringent then requested here always verify exact requirements with whomever you are placing the bid.
- D. Operation and Maintenance Data for the electronic systems shall include layout Drawings of each panel with each item of equipment identified and cross referenced with equipment data sheet. Operation and Maintenance Data shall include complete terminal block schedule for each panel with the following data for each point:
  - 1. Type of point, i.e., input, output, etc.
  - 2. Schedule relating points, terminal block numbers, and signal source or destination.
  - 3. Input and output schedule.
  - 4. Location and type of input source device.
  - 5. Location and type of output device controlled.
  - 6. Project-specific, illustrated user's manual.
  - 7. Provide detailed electrical schematics for all electrical/electronic components.

END OF SECTION