

**SECTION 10 25 13  
PATIENT BED SERVICE WALLS**

**PART 1 - GENERAL****1.1 DESCRIPTION:**

- A. This section specifies the furnishing, installation and connection of the Patient Bed Service Wall(PBSW), horizontal.
- B. Section 22 62 00, VACUUM SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES.
- C. Section 22 63 00, GAS SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES: Requirements for air, oxygen and vacuum outlets in the PBSW.
- D. Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS: Minimum requirements, test standards, qualifications products and services, manufactured products, and materials/equipment protection for electrical installations.
- E. Section 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS: Raceways and outlet boxes for wiring.
- F. Section 26 05 19, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES: Cables and wiring.
- G. Section 26 27 26, WIRING DEVICES: Wiring devices to be installed in the PBSW units.
- H. Section 26 05 26, GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS: Requirements for personnel safety and to provide a low impedance path to ground for possible ground currents.
- I. Section 26 51 00, INTERIOR LIGHTING: Lighting fixture requirements when installed in or connected to the PBSW units.
- J. Section 27 52 23, NURSE CALL/CODE BLUE SYSTEMS: Nurse Call and Code One requirements for installation in the PBSW units.

**1.2 SUBMITTALS:**

- A. Obtain Government approval for all materials and equipment before delivery to the job site. Delivery, storage or installation of materials and equipment which has not had prior approval is not permitted.
- B. In accordance with Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS and Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, submit the following:
  - 1. Shop Drawings:

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- a. Include sufficient information, clearly presented, to determine compliance with construction documents.
  - b. Include electrical ratings, dimensions, mounting details, front view, side view, equipment and device arrangement, wiring diagrams, material, and connection diagrams.
  - c. Submit configuration drawings showing devices, including nurse call, medical gases, electrical receptacles and switches. The Contracting Officer Representative (COR) will convey by return of submittal the desired configuration of each style of PBSW system. Limit the quantity and types of devices allowed for each style of unit to the quantity and types of devices specified for that style.
2. Manufacturer's Literature and Product Data: Submit descriptive literature, catalog cuts, test reports, certifications, samples, and other data necessary for the COR to ascertain that the proposed materials and equipment comply with construction documentation requirements. Catalog cuts submitted for approval are to be legible and clearly identify specific materials and equipment being submitted.
  3. Manufacturer's qualifications.
  4. Product qualifications.
  5. Service qualifications.
  6. Operation and Maintenance Manuals: Two (2) weeks prior to the final inspection, deliver four (4) copies of the following to the COR.
    - a. Complete maintenance and operating manuals including wiring diagrams, technical data sheets, and information for ordering replacement parts:
      - 1) Include complete "As installed" diagrams which indicate all items of equipment, their interconnecting wiring and interconnecting piping.
      - 2) Include complete diagrams of the internal wiring for each of the items of equipment, including "As installed" revisions of the diagrams.
      - 3) Identify terminals on the wiring diagrams to facilitate installation, maintenance and operation.
  7. Certifications: Two (2) weeks prior to the final inspection, deliver four (4) copies of the following certifications to the COR:

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- a. Certification by the manufacturer that the equipment conforms to the requirements of the construction documents.
- b. Certification by the Contractor that the equipment has been properly installed, adjusted, and tested in accordance with the manufacturer's recommendations.

**1.4 WARRANTY:**

- A. Construction Warranty: Comply with FAR clause 52.246-21 "Warranty of Construction".

**1.5 APPLICABLE PUBLICATIONS:**

- A. Publications listed below (including amendments, addenda, revisions, supplements and errata) form a part of this specification to the extent referenced. Publications are referenced in text by the basic designation only.
- B. Code of Federal Regulation (CFR):
  - 40 CFR 59.....Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating
- C. National Fire Protection Association (NFPA):
  - 70-14.....National Electrical Code (NEC)
  - 99-12.....Health Care Facilities
- D. National Electrical Manufacturer's Association (NEMA):
  - WD-6-2012.....Wiring Devices - Dimensional
- E. Underwriters Laboratories, Inc. (UL)
  - KEZR.E192931.....Prefabricated Medical Headwalls and Medical Supply Units

**PART 2 - PRODUCTS**

**2.1 PBSW SYSTEMS:**

- A. Provide PBSW's that are UL listed.
- B. Provide units consisting of a structural framework, removable panels and removable equipment console units which are factory assembled to house all permanent bedside services. Services include but are not limited to fixtures, grounding jacks, power outlets, telephone outlets, nurses call patient station, medical gas outlet(s), television remote control unit, and other fittings or devices.
- C. Conform to the following:
  - 1. Applicable requirements in NFPA 70 and NFPA 99.
  - 2. Assembly and all components are to be UL listed or labeled.

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- D. Coordinate the mounting space provisions for the nurse call equipment with Section 27 52 23, NURSE CALL/CODE BLUE SYSTEMS.
- E. Compressed Air, Oxygen and Vacuum System Equipment: Furnish, install and test the equipment in accordance with the construction documents and Section 22 62 00, VACUUM SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES and Section 22 63 00, GAS SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES.
- F. Electrical receptacles and switches to comply with the requirements in Section 26 27 26, WIRING DEVICES; grounding in Section 26 05 26, GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS; and internal wiring in Section 26 05 19, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES.
- G. Styles:
1. Style A1: A single bed PBSW unit consisting of a horizontal unit. Unit shall be equal to Hill-Rom Basis Headwall Vertical Units. In-wall mounting; on 6" studs, 24" width, 84" high, Light Oak Laminate Finish; single unit; 33" bariatric bed space.
    - a. Normal Power electrical services and 1 per system nurse call electrical service; low voltage electrical provision, emergency power electrical services; normal power receptacle quantity of 10; blank low voltage provision for low voltage provision.
    - b. Vacuum outlet gas service; oxygen outlet gas service; medical air outlet gas service; and two (2) oxygen outlets.
    - c. Accessories: Utility Slide Mount; Aneroid Sphygmo Mount; Aneroid Sphygmo, Tycos Model; universal holder; charting shelf.
    - d. Panel System.

**PART 3 - EXECUTION****3.1 INSTALLATION:**

- A. Install equipment in accordance with NFPA 70, NFPA 99, and as shown on the construction documents.
- B. Compressed Air, Oxygen and Vacuum System Equipment:
1. Install and test the equipment and piping system in accordance with the construction documents and Section 22 62 00, VACUUM SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES, and Section 22 63 00, GAS SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES.

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2. Install and make connections as required for a complete and operational PBSW system for each unit.

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