

**SECTION 27 52 41
MISCELLANEOUS MEDICAL SYSTEMS**

SPEC WRITER NOTES:

1. Edit this specification section between //____//, to fit project, or delete if not applicable.
2. Contact VA's AHJ, Spectrum Management and COMSEC Service (SMCS 0050P2H3), (202-461-5310), for all technical assistance.
3. Included throughout this specification are references to system's interface capability and various related features. System designer must verify availability of this system and coordinate associated requirements and subsequent interfaces.

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies miscellaneous medical equipment and systems including // Behavioral Health psychiatric-grade Security Unit Door Signal Systems, // Narcotics Storage Signal Systems // and // Elapsed Time Indicators // .

1.2 RELATED WORK

- A. Low-voltage electric locks and monitoring system: Section 28 13 00, ACCESS CONTROL.
- B. General electrical requirements and items common to more than one section of Division 28: Section 28 05 00, COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY.
- C. Cables and wiring: Section 26 05 21, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 VOLTS AND BELOW).
- D. Requirements for personal safety and to provide a low impedance path for possible ground fault currents: Section 28 05 26, GROUNDING AND BONDING FOR ELECTRONIC SAFETY AND SECURITY.

1.3 SUBMITTALS

- A. Submit in accordance with Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS.

PART 2 - PRODUCTS

SPEC WRITER NOTES:

1. Coordinate subsection with Nurse Call system specified in Section 27 52 23; edit functions which are already listed in Nurse Call specifications.

2.1 BEHAVIORAL HEALTH PSYCHIATRIC GRADE SECURITY UNIT DOOR SIGNAL SYSTEMS

- A. Provide complete system capable of following operation:
1. Doorbell Call Button: Depressing pushbutton at barrier door notifies staff and energizes associated chime and pilot lights, and maintains both in energized position.
 2. Door Release Button: Depressing pushbutton at nurses' station de-energizes chime and pilot lights, and unlocks barrier door.
 - a. Coordinate door release operation with electric locks.
 - b. Ensure each unit is, home run, connected to and controlled by facility's Security Management System (SMS) which access control is part.
- B. Components:
1. Provide pilot light, chime, pushbuttons //, electric lock // and auxiliaries for each barrier door to each Behavioral Health Security Unit.
 - a. Provide pilot light with stainless steel cover plate having red LED and integral 120-24 volts transformer.
 - b. Provide chime with a 10-volt ampere, 120-24 volt transformer.
 - c. Provide door control unit operating on 120-volt and containing lock-in maintained relays. Unit must be fail-safe.
 - d. Provide push button rated for 10 amperes, 600 volts, heavy-duty type with stainless steel cover plate.
 2. Provide chime and pushbutton at each nurses' station for respective Behavioral Health Security Unit.
 3. //Provide Red LED in Day Room //and_____//.
- C. Signs: Provide a sign under each chime and each pilot light, that reads "Barrier Door"; minimum 15 mm (1/2 inch) high lettering.

2.2 NARCOTICS STORAGE SIGNAL SYSTEMS

- A. Provide complete system capable of following operation:
1. Door position switches, incorporated in vault and cabinet doors by their manufacturers, control pilot lights connected to facility's SMS.
 2. Each pilot light is energized while its associated door is open.
 3. Coordinate with video surveillance cameras in accordance with Physical Security Design Manual for VA Critical Facilities.
 4. Home run connect each to facility's SMS.
- B. Components:

1. Red pilot light at each narcotic vault door and each narcotic cabinet door.

C. Signs: Provide a sign under each pilot light, that reads "Narcotics Door"; minimum 15 mm (1/2 inch) high lettering.

2.3 MEDICAL ELAPSED TIME INDICATORS

A. Provide 0-60 minute range, plus or minus 3 percent of full scale instrument accuracy, medical elapsed time indicator clock.

1. Provide 300 mm (12 inch) dial, flush or semi-flush mounted.

2. Provide minute hand and sweep-second hand.

3. Provide black on white, large digits at 5-minute intervals and individual second markings.

4. Provide completely enclosed synchronous motor.

5. Provide shock-resistant and dust-proof metal enclosure.

B. Provide automatic and manual operation, with controls on front of panel and terminals inside panel for connecting remote equipment, which actuates automatic operation.

1. Provide reset switch mounted on front panel; switch resets indicator to zero within five seconds after its momentary activation.

C. Power Supply: 120 volts, 60 Hz.

D. //Provide solid-state clock with equivalent operational readability, electronic, digital type, and medical elapsed time indicators. Provide with LED display; minimum 65 mm (2-1/2 inch) high numerals. //

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install wiring in conduit.

B. Install in accordance with manufacturer's instructions and as indicated.

3.2 FIELD QUALITY CONTROL

A. Demonstrate that miscellaneous medical systems operate properly in presence of COR.

B. Test and adjust controls and safeties.

C. Replace or repair malfunctioning controls, safeties, and equipment not accepted by Government.

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