

**SECTION 28 13 53**  
**SECURITY ACCESS DETECTION**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. The electrical contractor shall provide junction box as indicated on floor plan with 3/4 inch empty conduit routed up into the accessible ceiling space with bush conduit end and pull string within the empty conduit system.
- B. The security contractor shall pull wire, from security device to security panel and make final terminations.
- C. The security contractor shall provide finish cover plates at each security device location.
- D. The security contractor shall modify the existing security system as required in order to accommodate the new devices being added to the project.
- E. The electrical contractor shall include in bid number all work associated with the security system.

**1.2 RELATED WORK**

- A. Section 01 00 00 - GENERAL REQUIREMENTS. For General Requirements.
- B. Section 07 84 00 - FIRESTOPPING. Requirements for firestopping application and use.
- C. Section 28 05 00 - COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY. For general requirements that are common to more than one section in Division 28.
- D. Section 28 05 28.33 - CONDUITS AND BOXES FOR ELECTRONIC SAFETY AND SECURITY. Requirements for infrastructure.

**1.3 QUALITY ASSURANCE**

- A. Refer to 28 05 00 COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY, Part 1
- B. The Contractor shall be responsible for providing, installing, and the operation of the Security Access Detection as shown. The Contractor shall also provide certification as required.
- C. The security system shall be installed and tested to ensure all components are fully compatible as a system and can be integrated with all associated security subsystems, whether the security system is stand-alone or a part of a complete Information Technology (IT) computer network.
- D. The Contractor or security sub-contractor shall be a licensed security Contractor as required within the state or jurisdiction of where the installation work is being conducted.

#### **1.4 SUBMITTALS**

- A. Submit below items in conjunction with Master Specification Sections 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, Section 02 41 00, DEMOLITION, and Section 28 05 00, COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY.

#### **1.5 APPLICABLE PUBLICATIONS**

- A. The publications listed below (including amendments, addenda, revisions, supplement, and errata) form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. Department of Veterans Affairs  
VHA National CAD Standard Application Guide, 2006  
VA BIM Guide, V1.0 10
- C. Government Accountability Office (GAO):  
GAO-03-8-02.....Security Responsibilities for Federally Owned  
and Leased Facilities
- D. Institute of Electrical and Electronics Engineers (IEEE):
- E. National Fire Protection Association (NFPA):  
70-11..... Article 780-National Electrical Code
- F. National Electrical Manufacturers Association (NEMA)  
250-08.....Enclosures for Electrical Equipment (1000 Volts  
Maximum)
- G. Occupational and Safety Health Administration (OSHA):  
29 CFR 1910.97.....Nonionizing radiation
- H. Security Industry Association (SIA):  
AG-01.....Security CAD Symbols Standards

#### **1.6 WARRANTY OF CONSTRUCTION.**

- A. Warrant Security Access Detection work subject to the Article "Warranty of Construction" of FAR clause 52.246-21.
- B. Demonstration and training shall be performed prior to system acceptance.

### **PART 2 - PRODUCTS**

#### **2.1 GENERAL**

- A. The security contractor shall provide finish cover plates where devices are indicated on floor plans.
- B. The security contractor shall be responsible for pulling wire from device location to termination point at existing equipment,
- C. The security contractor shall provide final programming of the existing equipment.

- D. The security contractor shall make any and all necessary modifications to the existing equipment in order to accommodate the new security devices being added to the project.
- E. The security contractor shall provide fully engineered shop drawings of the work performed.

### **PART 3 - EXECUTION**

#### **3.1 GENERAL**

- A. System installation shall be in accordance with appropriate NEC, UL, NFPA, Related Work VA specifications, and appropriate installation manual for each type of Security Access Detection.

#### **3.2 WIRING**

- A. Wiring Method: Install cables in raceways [except in accessible indoor ceiling spaces, in attics,] [in hollow gypsum-board partitions,] and as otherwise indicated. Conceal raceways and wiring except in unfinished spaces.
- B. Wiring Method: Install cables concealed in accessible ceilings, walls, and floors where possible.
- C. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools.
- D. Splices, Taps, and Terminations: For power and control wiring, use numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

#### **3.3 CLEANING**

- A. Cleaning: Subsequent to installation, clean each system component of dust, dirt, grease, or oil incurred during installation in accordance to manufacture instructions.

#### **3.4 EXISTING CONDITIONS**

- A. The security contractor shall report all changes to the site or conditions that will affect performance of the system to the Contracting Officer in the form of a report. The Contractor shall not take any corrective action without written permission received from the Contracting Officer.
- B. Existing Equipment
  - 1. The security contractor shall connect to and utilize existing equipment, and make any necessary adjustments or modifications to

Lebanon VA Medical Center  
Lebanon, PA

Construct ICU/Medical/Surgical Bed Units  
Project #595-335

the existing system in order to accommodate the additional devices  
being added to the project.

-----END-----