

## University of Houston Master Specification

<Insert Project Name>

<Insert U of H Proj #>

<Insert Issue Name>

<Insert Issue Date>

### SECTION 28 2600 - ELECTRONIC PERSONAL PROTECTION SYSTEMS

These specifications provide basic minimum criteria to be met in preparing the final specifications for this Section, which is the responsibility of the Designer. Revise this Section by deleting and inserting text to meet Project-specific requirements.

Maintain Section format, including the UH Master Spec designation and version date in bold in the center columns in the header and footer. Complete the header and footer with Project information.

Designer is required to adhere to the University's "Electronic Access Control Design Guide" and "Network Infrastructure Design Standards" available in Owner's Design Guidelines on the Facilities Planning and Construction web site.

This Section uses the term "Architect" or "Engineer." Change this term to match that used to identify the design professional as defined in the General and Supplementary Conditions.

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

Delete hidden text after this Section has been edited for the Project.

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. The Contractor's attention is specifically directed, but not limited, to the following documents for additional requirements:
  - 1. The current version of the *Uniform General Conditions for Construction Contracts*, State of Texas, available on the web site of the Texas Facilities Commission.
  - 2. The University of Houston's Supplemental General Conditions and Special Conditions for Construction.

#### 1.2 SECTION INCLUDES

- A. Emergency Communications Systems Hardware.

#### 1.3 EMERGENCY COMMUNICATION SYSTEM

- A. This Section specifies the requirements for the Emergency Help Point System (EHPS) for the Project.
- B. Functional Requirements

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1. The EHPS shall consist of single button, hands-free direct dial communications unit(s).
2. Two different types of units are permitted, a wall-mounted unit, designated as a Call Box (CB); and a stanchion-mounted exterior unit, designated as a Call Tower (CT).
3. Refer to the Drawings for locations and types of units.
4. Each CB/CT shall be equipped with a one-button and bezel labeled "Emergency." The Emergency push button shall be programmed to dial the campus police 911 line for emergencies.
5. The CB/CT push button shall be provided with a momentary contact, normally open dry contact that is wired to an electronic access control (EAC) panel alarm to time stamp the call and to facilitate camera selection through EAC / VMS integration.
6. Each CB/CT shall have a dedicated VoIP/SIP line to allow the Help Point unit to be uniquely identified by the answering party. Actual programming shall be determined by Owner.
7. Each CB shall have an LED that illuminates when the call box is answered.. Provide each CB with a vandal resistant speakerphone faceplate. The CB shall be designed for service mounting on a wall.
8. An integrated blue strobe light mounted above the faceplate shall serve as a location identifier and shall normally be illuminated for unit visibility. Pressing the EMERGENCY button shall cause the blue light to flash for the duration of the call. Only when the called party terminates the call shall the light stop flashing.
9. Camera-equipped CT shall be the same tower assembly as a standard CT unit with the addition of an arm that extends above the tower to support a pendant mounted IP dome camera.
10. CT that are out of distance shall be equipped with a powered fiber PoE solution to convert all electrical signals to optical signals for transmission and to power the speakerphone unit.
11. Refer to Section 27 1300 "Communications Backbone Cabling" for CommScope, Power over Ethernet (PoE) solution cabling and equipment.

### 1.4 CONTRACTOR QUALIFICATIONS

A. Contractor shall be a certified Code Blue Phone Reseller and Installer:

1. At minimum, one (1) on-site technician shall have appropriate Code Blue Phone certification for installation, programming and troubleshooting.
2. Submit certification documentation to the Owner's Project Manager and Campus Safety Representative prior to fabrication and installation.

### 1.5 WARRANTY

A. Equipment shall be warranted against any defects in material and workmanship, under normal use, for a period of two years from date of installation.

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- B. In the event Owner determines the system is defective within the warranty period, manufacturer shall repair and/or replace any defective parts, provided the equipment is returned to manufacturer.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS LIST

- A. Code Blue - CB1-e - Signature Help Point Tower Unit:

- 1. Part# - Z13083-25
- 2. Speaker Phone Faceplate - IP5000 FP1 - (VoIP/SIP) Single Button Phone Assembly
- 3. IP Surge Suppressor - Part# - 41421

- B. Code Blue - CB2-e - Signature Help Point Wall Unit:

- 1. Part# - Z13083-24
- 2. Speaker Phone Faceplate - IP5000 FP1 - (VoIP/SIP) Single Button Phone Assembly.
- 3. IP Surge Suppressor - Part# - 41421.

#### 2.2 FINISH

- A. Unit housing shall be fabricated of non-magnetic #304 stainless steel.
- B. After fabrication, powder coat the unit housing with MP 12602 Red ("Cougar Red"). The powder-coated finish shall be uniform and free of visible defects.

#### 2.3 GRAPHICS

- A. Graphics shall be cut from a durable, engineering grade reflective vinyl for high visibility and legibility.
- B. The standard CB/CT graphics text shall be "EMERGENCY" in reflective white and placed on two sides of each Help Unit. Use "Interstate Regular" typeface for text.
- C. CB2E (CB wall unit) shall have a 5 inch x 5 inch University of Houston logo on its front.
- D. CB1E (CT tower unit) shall have a 10 inch x 10 inch University of Houston logo on its front
- E. Refer to the website of University Marketing and Communications to obtain correct logos. Submit shop drawings with proposed graphics layouts to UH Branding and University Architect for review and approval prior to fabrication.

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**PART 3 - EXECUTION**

**3.1 MOUNTING**

- A. Each CT shall include four, 5/8 inch by 16 inch J-bolts for mounting into a 20 inch by 20 inch by 3 foot concrete foundation. J-bolts shall protrude approximately 2-1/2 inches from surface of foundation. Refer to manufacturer's Administrator Guide for J-Bolt placement.

**3.2 ELECTRICAL**

- A. The CB/CT speakerphone faceplate device shall be powered by a PoE data cable or by a powered fiber solution. Do not provide external power.
- B. The CB unit beacon/strobe shall be powered by the same PoE input connected to the unit's PoE splitter. The PoE splitter shall have an incoming data connection from Owner's network that powers the PoE splitter and the beacon/strobe. A secondary port shall provide signal and power to the IP5000 speakerphone faceplate.
- C. The CT unit beacon/strobe shall have a separate 120 VAC circuit and draw a maximum of 3 amperes under normal operation and 4 amps with heater.
- D. All lamps and fixtures shall be UL-listed. All electrical components shall be hard wired and concealed within the tower in aluminum flex conduit. All wiring and electrical fixtures shall comply with the standards of the National Electrical Code and UL.

END OF SECTION 28 2600