

## University of Houston Master Specification

<Insert Project Name>

<Insert U of H Proj #>

<Insert Issue Name>

<Insert Issue Date>

### SECTION 28 2600 – EMERGENCY CALL STATIONS

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

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.

Designer is required to adhere to the University's "Network Infrastructure Design Standards," "UH System IT Facilities: Baseline Standards," and "Electronic Access Control Design Guide" available in Owner's Design Guidelines on the University Information Technology and Facilities Planning and Construction web sites.

#### 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.

##### 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.

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2. Submit certification documentation to the Owner's Project Manager and Campus Safety Representative prior to fabrication and installation.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS AND PRODUCTS

##### A. Emergency Call Stations

1. Approved Manufacturer: Code Blue. Approved products:
  - a. LS1000 Speakerphone Faceplate
  - b. CB 1-e Elite Help Point Call Tower
  - c. CB 2-e Signature Help Point Wall Unit
  - d. Optional Overhead Camera Mount (only where required on an exceptional basis by UIT and UH Campus Safety)
2. Refer to Section 01 2500 "Substitution Procedures" for changes to approved manufacturer or approved parts. Obtain prior written approval for substitutions from both the Owner's Project Manager and the UIT Project Manager.

#### 2.2 FINISH

- A. Fabricate unit housing of non-magnetic #304 stainless steel.
- B. After fabrication, finish the unit housing with standard "Safety Red" paint. Ensure that the finish is uniform and free of visible defects.

#### 2.3 GRAPHICS

- A. Provide graphics cut from a durable, engineering grade reflective vinyl for high visibility and legibility.
- B. Provide graphics text on the Call Towers and Wall Units in reflective white. Place the word "Emergency" on two sides of each Help Point.
- C. Use "Interstate Regular" typeface.

### PART 3 - EXECUTION

#### 3.1 FUNCTIONAL REQUIREMENTS

1. Refer to the Drawings for locations and types of units.
2. Two different types of units are permitted: a wall-mounted unit, designated as a Call Box (CB); and a pedestal-mounted exterior unit, designated as a Call Tower (CT).

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3. Provide single button, hands-free direct dial communications unit(s) for the EHPS.
4. Equip each CB or CT with a one-button and bezel labeled "Emergency." Program the Emergency push button to dial the campus police 911 line for emergencies.
5. Use a dedicated VoIP/SIP line for each CB or CT to allow the Help Point unit to be uniquely identified by the answering party. Consult Owner for programming.
6. Equip each CB or CT with an LED that illuminates when the call box is answered. Provide each CB or CT with a vandal resistant speakerphone faceplate.
7. Use an integrated blue strobe light mounted above the faceplate as a location identifier and constant source of illumination for unit visibility. Ensure that when the "Emergency" button is pressed, the blue light will flash for the duration of the call. Only when the called party terminates the call may the light stop flashing.
8. Equip each CB or CT that is out of distance with a powered fiber Power over Ethernet (PoE) solution to convert all electrical signals to optical signals for transmission and to power the speakerphone unit.
9. Refer to Section 27 1300 "Communications Backbone Cabling" for PoE solution cabling and equipment.

### 3.2 MOUNTING

- A. For each CT include four, ¾ inch by 24-inch galvanized steel L-shaped anchor-bolts for placement in an 18-inch diameter, minimum 5-foot deep concrete foundation. Foundation to be designed by an engineer licensed in Texas. Install the anchor bolts to have 6 inches of thread exposed above the surface of the foundation.
- B. Refer to manufacturer's Administrator Guide for anchor bolt placement.

### 3.3 ELECTRICAL

- A. Power the CB or CT speakerphone faceplate device by a PoE data cable or by a powered fiber solution. Do not provide external power.
- B. Power the CB or CT unit beacon/strobe by the same PoE input connected to the unit's PoE splitter. Use a single incoming data connection from Owner's network to power both the PoE splitter and the beacon/strobe. Use the secondary port on the PoE splitter to power the speakerphone faceplate.
- C. Hard-wire and conceal all electrical components within the CB or CT. Exposed conduit is not permitted.
- D. Comply with the standards of the National Electrical Code and UL for all wiring and electrical fixtures. Use only UL-listed LED lamps and fixtures with 4000K, CRI 90+ ratings.

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**3.4 PROJECT CLOSE-OUT**

- A. As-Built Drawings: Submit drawings in .rvt, .dwg and .pdf formats showing actual plan locations of Emergency Call Stations.

END OF SECTION 28 2600

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