

University of New Hampshire

## University of New Hampshire Scholars' Repository

---

Division 27 – Communication

Chapter 5 – Technical Construction and  
Renovation Standards

---

2-26-2016

### 270742 - A - Campus Emergency Phone System

Stephanie L. Weatherbee

University of New Hampshire, [s.weatherbee@unh.edu](mailto:s.weatherbee@unh.edu)

Follow this and additional works at: [https://scholars.unh.edu/pdch\\_5\\_27](https://scholars.unh.edu/pdch_5_27)

---

#### Recommended Citation

Weatherbee, Stephanie L., "270742 - A - Campus Emergency Phone System" (2016). *Division 27 – Communication*. 3.

[https://scholars.unh.edu/pdch\\_5\\_27/3](https://scholars.unh.edu/pdch_5_27/3)

This Article is brought to you for free and open access by the Chapter 5 – Technical Construction and Renovation Standards at University of New Hampshire Scholars' Repository. It has been accepted for inclusion in Division 27 – Communication by an authorized administrator of University of New Hampshire Scholars' Repository. For more information, please contact [Scholarly.Communication@unh.edu](mailto:Scholarly.Communication@unh.edu).

## SECTION 27 0742 – CAMPUS EMERGENCY PHONE SYSTEM

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This section establishes standards for the installation of emergency phones at the University.

#### 1.2 DESIGN STANDARDS

- A. The University has five categories of emergency phones:
  - 1. Walk ways - Blue light stanchion phones located along pathways, sidewalks, parking lots, etc. having emergency button only which autodial UNH Dispatch. (Type A phone)
  - 2. Bus Stop - Blue light Stanchion phones located at bus stops having emergency button only which autodial UNH Dispatch. (Type A phone)
  - 3. Entrance - Located at building entrances, having an emergency button which autodial UNH Dispatch and a dial pad which allows campus only dialing. (Type D phone or Type B phone)
  - 4. Refuge - Located inside a building, anywhere an “Area of Refuge” has been deemed necessary, having emergency button only which autodial UNH Dispatch. (Type C phone)
  - 5. Elevator - call box having emergency button only which autodial UNH Dispatch. (Type A phone)
- B. All emergency phones shall be installed under the direction of University Facilities Project Management and at the advice of UNH Telecommunications.
- C. All emergency phones with or without stanchions shall be ADA compliant and have a red emergency push button that, when activated, engages the blue light strobe when applicable and signals UNH Dispatch Center. The phone speaker system shall allow bi directional communication between the Dispatch Center and emergency phone activator.
- D. Phones shall be located at campus bus stops, along walkways, and other gathering or recreational areas. See Attachment A for assembly details and coordinate with Chapter 5, Division 32, Section 321313.
- E. University Facilities Campus Planning will maintain an exterior emergency phone master plan to establish current locations and the future growth of the system. The object of the plan is to provide one visible phone from any maintained walk, parking lot, or roadway on campus.

- F. During site selection of new stanchion locations, consideration shall be given to current or future security camera or WiFi coverage areas. If either is desired, additional design considerations shall be discussed with Telcom during the planning phase.
  - 1. Phone locations and changes to the master plan will be approved by an emergency phone committee consisting of representatives from:
    - a. Campus Planning.
    - b. FPM
    - c. Grounds and Events.
    - d. Telecom.
    - e. University Police.
    - f. VPSA.
    - g. Student Senate.
    - h. Other concerned organizations.
  - 2. All phone locations shall be numbered consistent with Telcom's number assignment.
  - 3. Emergency Phone Committee representatives are obligated to update their own organization's documentation and systems when changes are approved.
- G. E.University Office of Affirmative Action will maintain an interior Area of Refuge phone master plan to establish current locations and the future growth of the system.
- H. E.University Office of Residential Life will maintain an exterior entrance phone master plan to establish current locations and the future growth of the system.
- I. Changes to this standard shall require approval by UNH Telecommunications and the UNH PLADECOC Committee.

### 1.3 CODES, RULES, REGULATIONS

#### 1.4 SUBMITTALS

- A. Any exceptions to these standards must be approved by the UNH PLADECOC committee and UNH Telecommunications.

#### 1.5 QUALITY ASSURANCE

- A. All electrical pathways, line voltage wiring, and connections shall be done by an electrician licensed in the State of New Hampshire.
- B. All telecommunication phone device, communications wiring, connections, and programming shall be done by the UNH Telecommunications department.
- C. All stanchion, concrete, asphalt and associated work shall be done by experienced tradespersons.

## 2.1 GENERAL

- A. Emergency phone equipment in this standard includes stanchions, lights, phones, and conduit. Products for concrete, asphalt, wiring, etc., are found in other sections.
- B. The University has adopted the following products as the standard for the campus in order to provide consistent appearance and function:

GAI-TRONICS® Corporation  
P.O.Box1060  
Reading, PA19607-106USA  
Phone: 1-800-492-121  
Fax: (610) 796-5954

- 1. Stanchion:
  - a. (Typical): Gai-Tronics model # 234 (includes protective outer lens body, panel light, mounting hardware kit.) ( strobe and Phone sold separately). Each unit to be numbered individually by manufacturer per numbering assigned by UNH Telecommunications.
  - b. (Video surveillance): Gai-tronics model #234-500CAM (Strobe, phone, and pendant camera not included)
- 2. Strobe: (LED with constant on): model # 530-001 (120VAC).
- 3. Phone:
  - a. Type A: Gai-Tronics model # 397-001 (flush mount without keypad).
  - b. Type B: Gai-Tronics model # 398-001 (flush mount with keypad).
  - c. Type C: Gai-Tronics model # 393-001 (surface mount without keypad).
  - d. Type D: Gai-Tronics model # 394-001 (surface mount with keypad).
- 4. Conduit: Schedule 40, 1" diameter for up to 250', 1 ¼" greater than 250' and a NEMA rated hand hole for stanchion locations greater than 500' or with more than 180 degrees of cumulative bends between pull points. Provide one (1) each for power and telecommunications to sources of power and telecommunications.

## PART 3 - EXECUTION

### 3.1 EXISTING CONDITIONS

- A. Inspection:
  - 1. Identify electrical and power conduit runs.
  - 2. Identify Telecom terminations.
  - 3. Coordinate UNH Dig Safe for base and conduit locations.

3.2 INSTALLATION

- A. Installation will typically be funded from other project funds or annual campus repair and renovation funds. Installation will include the initial non-recurring Telecom charge.
- B. Perform the work and provide material under this standard in strict accordance with applicable provisions of all governing codes, rules, laws and ordinances as amended.
- C. Comply with University of New Hampshire Planning, Design and Construction Guidelines.
- D. Emergency phone assemblies shall be listed by an independent testing agency, satisfactory to the New Hampshire State Fire Marshal's Office.
- E. Locate as per master plan or specific project requirements.
- F. Provide conduit runs to base.
- G. Set stanchion anchors with plywood template at cardboard tube foundation form.
- H. Install phones on 18-foot diameter, 4-foot deep concrete bases.
- I. Bases shall be located between 3-feet and 5-feet from the sidewalk or pathway. Provide an asphalt or concrete pad, 4-foot wide extending from the edge of paved surface at least to the back of the base for wheelchair access.
- J. Ensure access to the keypad/emergency call button meets ADA guidelines.
- K. Ensure phone is facing pathway.
- L. Install stanchion plumb and level.
- M. Provide numbering from master plan.
- N. Prior to phone start-up, cover beacon (where applicable) and phone with black plastic to indicate that phone is not in operation.

3.3 START UP

- A. The installing contractor will set the stanchion, verify the operation of the lights and notify University FPM.
- B. FPM will notify Telecommunications that the phone is ready to activate.
- C. Telecommunications will activate the phone, test and advise University FPM and University Police that the phone is ready for use.

4.1 TESTING

- A. The emergency phones are polled daily for serviceability utilizing the Gai-tronics Telephone Management Application (TMA) which Telecom monitors and responds to if any phone is identified by TMA as being faulty.
- B. Periodic phone testing will be performed by UNH Police.
- C. Any phones not working properly will be reported to the UNH Facilities Support Center and Telecommunications, specifying whether there is a lighting or telephone problem.
- D. If the problem cannot be fixed quickly, a black plastic cover shall be placed over the strobe and phone.

4.2 VERIFICATION

- A. Upon completion of repairs, UNH Facilities and Telecommunications shall notify UNH Police who shall verify operation.

END OF SECTION 27 0742

ATTACHMENTS:

ATTACHMENT A – STANCHION ASSEMBLY DETAIL