

1.0 GENERAL DESCRIPTION

- 1.1 The Solar Emergency Phone Tower is required to eliminate the need to trench for electrical and phone lines.
- 1.2 The Tower shall be rectangular in appearance and made of continuous steel construction. It shall stand 9' from the base to the top of Tower. The word "EMERGENCY" with bright reflective lettering shall be located on all four sides and each letter shall be a minimum of 3" in height. The phone shall be compliant with the American with Disabilities Act (ADA) and be powered with a solar panel accompanied with a battery for power storage.
- 1.3 The emergency communication component shall comply with the ADA. The Phone shall have the ability to be programmed with up to 5 emergency phone numbers. Upon activation of the emergency push button; a call will be automatically placed, the strobe shall instantaneously flash until the call has been disconnected by the called party.

2.0 MOUNTING

- 2.1 The Tower is constructed of steel that is of one continuous piece with a welded internal base 5/8" thick containing four built in mounting holes. A template for installing the anchor bolts is to be included. The unit shall be mounted on a concrete pad with 3/4" galvanized anchor bolts, galvanized nuts and washers.
- 2.2 Solar panel is to be mounted at the top of the Tower, affixed to the 30" aluminum extension below the strobe. It shall be at least 85 WATTS and not to exceed 145 WATT. A mounting bracket is provided.

3.0 ELECTRICAL

- 3.1 The Phone shall be powered by a solar panel along with a 90 amp hour battery for energy storage.
- 3.2 The power consumption cannot exceed 2.5 amps with a fully active phone, cellular unit, strobe, beacon, faceplate LED and power supply.
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4.0 COMMUNICATIONS

- 4.1 The unit shall have an ADA compliant and vandal resistant speaker phone.
- 4.2 The phone shall be a push once to talk phone. Once the button has been pushed, the phone will call programmed emergency numbers. The phone must be capable of being programmed with up to 5 emergency numbers.
- 4.3 The phone shall have Location Message capability. Phone must have a minimum 18 second recordable message capability programmable to play once, twice, or continuously until * is pressed by called party. Phone shall notify called party of the location of the call upon being received at the emergency dispatch center.
- 4.4 Phone shall be capable of allowing the called party to replay the phone location message if necessary to ensure an understanding of the location of phone tower.
- 4.5 Once call has been made (button pushed), the call can only be terminated by the called party.
- 4.6 Phone plate must have a red LED that will light up upon push of the button. The light shall be a solid color when the phone is activated and will flash when call has been answered.
- 4.7 The Phone must be capable of being programmed and reprogrammed on-site at the Tower. Line powered phones and Dip Switch programming are not accept
- 4.8 Communication options must include: Analog, VoIP, WI-FI VoIP, Cellular (both CDMA & GSM), 900 MHz, and 2-Way Radios.
- 4.9 Standard Phone features:
 - Programmable with up to 5 emergency phone numbers
 - Weatherproof speaker
 - Weatherproof microphone
 - Operating temperature of between -40°F to +150°F (-40° to + 65°C)
 - Programmable passwords
 - On-site or remote programmable
 - EEPROM memory to protect programming
 - Adjustable speaker and microphones levels
 - Programmable location message with human voice recognition
 - Programmable conversation time
 - 2 button – 2 number capability
 - Remote and on-site diagnostic testing
 - Ability to control additional accessories (cameras, speakers)