PART 1 - GENERAL

1.01 Scope: Emergency telephone equipment, cables, power wiring with raceways, junction boxes, bollards, and mounting and support structures.

1.02 Contact UAF FS for latest version of standard drawing of emergency telephone. Confirm all part numbers are current with FS.

PART 2 - PRODUCTS

2.01 Emergency telephones: Provide Ramtec Model R2A-S (one button auto dial) in weather resistant 912 OSHA yellow enclosure, other manufacturer identified by consultant.

2.02 Protected block: Exterior emergency telephones served by interior telephone backboards require protected blocks at the backboard. Protected block: Reliable Electric Catalog No. 363-2VSR2, other manufacturer identified by consultant.

2.03 Blue marker and strobe lights:

A. Marker light fixture: Gasketed liquid tight with a malleable iron body and blue polycarbonate globe and guard. Marker light fixture: Appleton No. VA105OG, other manufacturer identified by consultant. Lamp: Solid state, similar to LEDtronics DEC A-19-OPB-120A, minimum 20,000 hour life.

B. Strobe light fixture globe: Clear, input voltage 120 VAC, operating temperature range –40°F to +149°F, 75-85 flashes per minute, 750,000-peak candlepower minimum, with lamp life of 2000 hours. Mount entire unit vertically on NPT nipple. Must be suitable for outdoor use. Signal light strobe: Federal Signal Corp. No. 131ST, other manufacturers identified by consultant.

2.04 Control transformer: 120 x 24 VAC, 50 VA, with primary fusing. Square D No. 9070KF50D23 with Type AP3 fuse block, other manufacturers identified by consultant.

2.05 One shot timing relay: Time delay control relay: DPDT contacts rated 10 amperes at 240V a 24 VAC coil, be tube socket mounted, knob adjustable for 0.6 to 60 minutes, one shot, and be sealed within a case. Relay: Square D Class 9050, No. JCK48V14 with No. NR61 socket, other manufacturers identified by consultant.

2.06 Component counting screws: All exposed screws used to mount components and retain stanchion access plates: Tamper-resistant pan head drilled spanner screws of stainless steel. Screws: McMaster-Carr Stock No. 94066A537 or 94066A542 (page 2176 of Catalog 97), other manufacturers identified by consultant.

2.07 Install surge protectors on telephone conductors at emergency telephone input terminal: Ramtech Model No. 800-1018, other manufacturers identified by consultant.
2.08 Prime stanchions and bollards and paint 912 OSHA yellow to match the emergency phone units.

PART 3 – EXECUTION (NOT USED)

PART 4 - SEQUENCE OF OPERATION

4.01 Blue marker light: Turned on continuously when photocell indicates darkened conditions. The marker light shall burn continuously without blinking. Operation of the marker light is independent of the operation of the emergency telephone or the clear strobe light. Lamp is to be long life Light Emitting Diode (LED) type.

4.02 Clear strobe light: Turned on when the emergency telephone activation button is depressed. When on, light will strobe continuously in daylight or darkness. The strobe light shall be turned off after a time delay of 3 minutes (time delay is set by adjusting One Shot Timing Relay). The strobe light operates independently of the blue marker light.

4.03 Emergency telephone: The following sequence of operation describes the emergency telephone functional requirements and its relationship with other components. FS/DDC will do actual setting of configuration switches and telephone numbers; contractor installs and wires the phone only. The emergency telephone shall automatically dial a pre-programmed emergency number when the activation button is depressed. The emergency telephone will then remain on-line (activated) until the receiving station hangs up. When activated, a set of normal open contacts within the emergency telephone shall close and energize the strobe light. Operation of the blue marker light shall be independent of emergency telephone operation. The emergency telephone shall support remote testing (activation) by the emergency call receiving station and shall allow the receiving station to “listen-in” on the telephone’s surroundings.

END OF SECTION