

FIRE DETECTION AND ALARM SYSTEM RISER

NOT TO SCALE

NOTES

1. SYSTEM COMPONENTS ARE BASED ON AN ADDRESSABLE SYSTEM SIMILAR TO CERBERUS/PYROTRONICS, SIMPLEX, EDWARDS, FIRELIGHT OR SILENT KNIGHT. SUBMITTALS MUST BE APPROVED BY THE ENGINEER.
2. SYSTEM CONFIGURATION SHALL INCLUDE REMOTE ALARM NOTIFICATION VIA DEDICATED PHONE LINE WHERE REQUIRED BY LOCAL CODES.
3. ALL SYSTEM WIRING SHALL BE RUN CONCEALED IN WALLS OR IN CEILINGS IN CONDUIT. WHERE POSSIBLE, MULTIPLE WIRING SHALL BE NEATLY BUNDLED AND RUN PARALLEL WITH THE BUILDING STRUCTURE.
4. ALL DEVICES SHALL BE FLUSH MOUNTED USING SINGLE GANG BOXES; VERIFY MOUNTING HEIGHTS OF ALL DEVICES PRIOR TO BEGINNING INSTALLATION.
5. INSTALLATION CONTRACTOR SHALL PROVIDE INITIAL SYSTEM PROGRAMMING AND SET SENSITIVITY OF DEVICES.
6. SEE PLANS FOR CORRECT COUNT OF DEVICES. THIS IS A DIAGRAMATIC DRAWING AND DOES NOT ILLUSTRATE AN ACCURATE QUANTITY OF DEVICES.

STRUCTURAL FIRE STATION FIRE ALARM SYSTEM CONTROL SEQUENCE

NOTE: All fire alarm devices, wiring, and installation shall be in accordance with UFC 3-600-01 and NFPA 72.

Sequence A - Pull station: Upon activation of device, FACP will go into general alarm, all common area horns and strobes activate; remote dialer calls monitoring station. Door hold-open devices release, monitoring station receives alarm. Digital display on annunciator at main entrance provides description of device and general location.

Sequence B - Smoke detector: Upon activation of device, FACP will go into alarm, all common area horns and strobes activate; remote dialer calls monitoring station. Door hold-open devices release. Monitoring station receives alarm. Digital display on annunciator at main entrance shall provide description of device and general location.

Sequence B(a) - Elevator Lobby/Machine Room/Hoistway Smoke/Heat Detector: Upon activation of device(s), FACP will go into alarm, all common area horns and strobes activate; remote dialer calls monitoring station. Elevator will travel to ground floor, doors will open, and is shut down and made available for firefighters' service. Door hold-open devices release. Monitoring station receives alarm. Separate digital display for each elevator lobby, hoistway, and machine device will provide description of device and location.

Sequence C - HVAC/duct detector: Upon activation of device, "supervisory" signal will be sent to FACP; individual HVAC unit will shut down. Upon receipt of "supervisory" signal, remote dialer calls monitoring station to report problem, monitoring station notifies fire department. Monitoring station also contacts building maintenance to investigate problem within 50 minutes of receipt of supervisory signal.

Sequence D - Sprinkler flow: Upon activation of flow monitoring device, FACP will go into general alarm, all horns/strobes activate; fire station monitoring station is notified. Elevator will travel to ground floor, doors will open, and is shut down and made available for firefighter's service.

Sequence E - Mass Notification Message: In general alarm, if a mass notification message is made at the ANN/LOC panel, the fire alarm horn is temporarily muted and the message is audible through the strobe speaker. Upon completion of message, the horn is then reactivated to normal alarm decibel level.

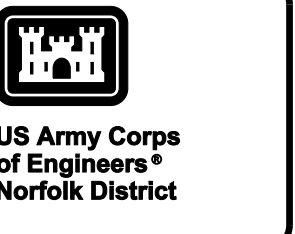
Sequence F - System Trouble: Upon break in detector loop wiring, removal of any device in detector loop, or battery failure; FACP display will indicate "system trouble" and digital display on annunciator at main entrance provides description of device and general location. Internal audible alarm in FACP activates.

If "supervisory" signal is received from sprinkler system such as a valve "tamper" switch, remote dialer calls monitoring station to report problem, monitoring station notifies building Owner, Law Enforcement personnel, and/or fire department. Monitoring service also contacts building maintenance or sprinkler service contractor to investigate problem within 60 minutes of receipt of supervisory signal.

MOUNTING HEIGHT TABLE

DESCRIPTION	**HEIGHT (AFF)	COMMENTS
MANUAL FIRE ALARM PULL STATION	4'-0"	
FIRE ALARM SIGNALING DEVICE	6'-8"	
MASS NOTIFICATION SPEAKER APPLIANCES	8'-0"	
MASS NOTIFICATION STROBE DEVICES	8'-0"	

** ALL DIMENSIONS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE

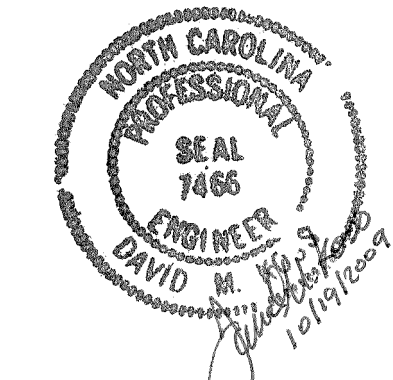


MARK	DATE	DESCRIPTION	APPR.
0	10/19/09	DESIGN COMPLETE	

DATE: 8/14/2009	DESIGNED BY:	DATE: 10/19/09
BY: [Signature]	CHK BY:	DESCRIPTION:
U.S. ARMY CORPS OF ENGINEERS	FOR: [Signature]	MARK:
NORFOLK DISTRICT	CONTRACT NO.: W91238-99-C-0026	
FT BENNING, GEORGIA	FILE NUMBER:	
	PLOT SCALE: PLOT DATE:	
	FILE NAME:	
	ANSI D	

DESIGN COMPLETE

16th CAV/Regt. GENERAL INSTRUCTION BUILDING
FIRE ALARM RISER



SHEET IDENTIFICATION
ES-500
SHEET 130 OF 130