

SYSTEM OPERATIONAL MATRIX						
	SMOKE OR HEAT DETECTOR	MANUAL FIRE ALARM BOX	POWER SUPPLY TROUBLE	TAMPER SWITCH	FLOW SWITCH	COMMON SYSTEM TROUBLE
INDICATE BUILDING ALARM	X	X			X	X
INDICATE TROUBLE			X			X
INDICATE SUPERVISORY				X		
TRANSMIT OFF-SITE ALARM SIGNAL-SEE NOTE 1	X	X				
TRANSMIT OFF-SITE TROUBLE SIGNAL-SEE NOTE 1	X	X				X
TRANSMIT ON-CAMPUS ALARM-SEE NOTE 2	X	X	X			X

NOTES:
 1. ALARM IS TRANSMITTED VIA TELEPHONE LINES. COORDINATE WORK WITH VAMC.
 2. COORDINATE WORK WITH VAMC. TERMINATE #12 CONDUCTORS TO NEW FACP SITE PULLBOX.

WIRE LEGEND			
TYPE	COPPER WIRE SIZE & INSULATION	MANUF. NO.	CIRCUIT
S	2 #16 FPL WIRES	WEST PENN WP-0990	INITIATING DEVICES
A	2 #12 FPL WIRES	WEST PENN	NOTIFICATION APPLIANCES

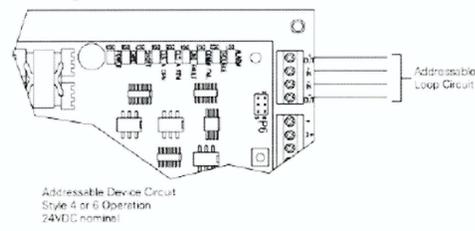
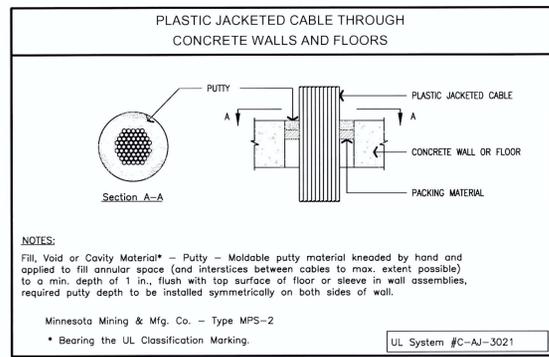
SYMBOL	FIRE ALARM
	MANUAL PULL STATION, WALL MOUNTED 48" AFF TO CENTERLINE OF STATION M1 = INDICATES DEVICE ADDRESS
	COMBINATION HORN AND STROBE NOTIFICATION APPLIANCE WALL MOUNTED 80" AFF TO BOTTOM OF STROBE H1 = INDICATES DEVICE ADDRESS
	STROBE NOTIFICATION APPLIANCE WALL MOUNTED 80" AFF TO BOTTOM OF STROBE V1 = INDICATES DEVICE ADDRESS
	SPACE SMOKE DETECTOR, CEILING MOUNTED D1 = INDICATES DEVICE ADDRESS
	HEAT DETECTOR, CEILING MOUNTED D2 = INDICATES DEVICE ADDRESS
	DUCT MOUNTED SMOKE DETECTOR D3 = INDICATES DEVICE ADDRESS
	DUCT MOUNTED SMOKE DETECTOR WITH AIR SAMPLING PROBES, NEMA 3R CABINET FOR OUTDOOR LOCATION
	FIRE SPRINKLER TAMPER SWITCH
	FIRE SPRINKLER FLOW SWITCH
	END OF LINE DEVICE
	FIRE ALARM CONTROL PANEL WALL MOUNTED 72" AFF
	FIRE ALARM ANNUNCIATOR PANEL WALL MOUNTED 66" AFF
	MAGNETIC DOOR HOLDER, WALL MOUNTED 6" BELOW THE TOP OF DOOR. PROVIDE RELAY MODULE WITHIN 3 FEET OF DOOR HOLDER.

SHEET NOTES

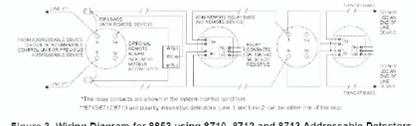
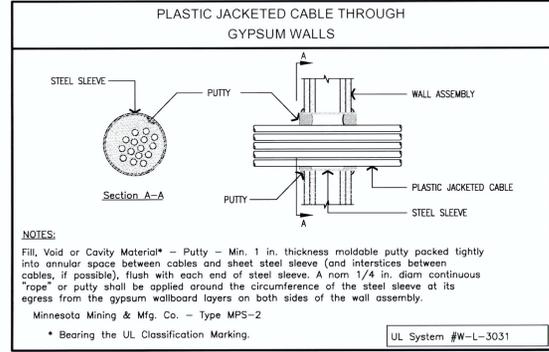
- 1 NOTIFICATION APPLIANCE CKT. 2#12AWG TYPICAL.
- 2 DETECTION OR SIGNALING LINE CIRCUIT, 2#16AWG TYPICAL.
- 3 NETWORK WIRING, 2#16, 2#12AWG.
- 4 ALL FIRE ALARM WIRING SHALL BE IN CONDUIT MINIMUM 3/4".
- 5 WITH TWO 4-PAIR 24 GAGE CATEGORY 5 CABLES FOR CENTRAL STATION ALARM.
- 6 FOR CAMPUS FIRE ALARM WIRING. SEE E100 FOR CONTINUATION.
- 7 12"H x 12"W x 4"D WITH HINGED COVER. PAINT RED.
- 8 DACT-DIGITAL ALARM COMMUNICATIONS TRANSMITTER FOR OFF-SITE BUILDING ALARM IS INTERNAL TO FACP.
- 9 REFER TO MECHANICAL DRAWINGS FOR LOCATION AND QUANTITY OF TAMPER AND FLOW SWITCHES.
- 10 PROVIDE RELAY MODULE WITHIN 3 FEET OF DOOR HOLDER. DOOR HOLDERS TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM. TYPICAL.

GENERAL NOTES

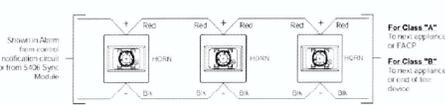
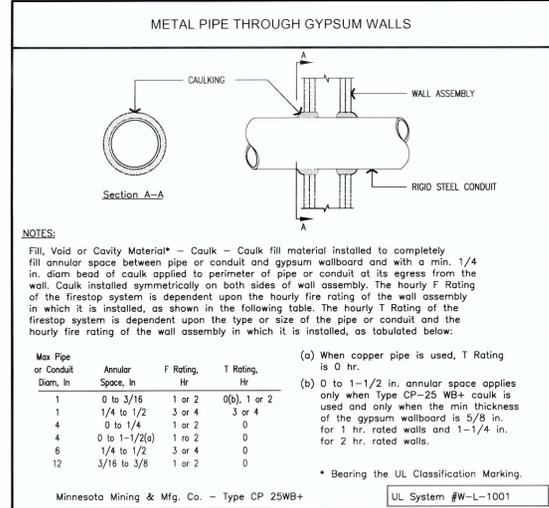
- G1 FIRE ALARM WORK SHALL NOT START UNTIL SHOP DRAWINGS ARE REVIEWED AND APPROVED BY CAMPUS FIRE ALARM MARSHAL. SHOP DRAWINGS TO INCLUDE RISR DIAGRAM, VOLTAGE DROP AND BATTERY SIZING CALCULATIONS, SEQUENCE OF OPERATIONS, FLOOR PLANS OF DEVICES AND EQUIPMENT, AND CFSM LISTING NUMBERS OF EQUIPMENT.
- G2 REFER TO FLOOR PLANS FOR LOCATION AND QUANTITY OF DEVICES.
- G3 COORDINATE WITH VAMC THE TIE TO CAMPUS FIRE ALARM LOOP AND REMOTE ALARM TO CENTRAL STATION VIA PHONE LINES.
- G4 FIRE ALARM SYSTEM SHALL BE ADDRESSABLE SYSTEM WITH ADDRESSABLE DEVICES.
- G5 PROVIDE DACT - DIGITAL ALARM COMMUNICATIONS TRANSMITTER TO FIRE ALARM CONTROL PANEL.
- G6 ALL FIRE ALARM WIRING SHALL BE IN MINIMUM 3/4".



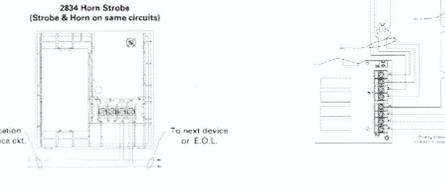
ADDRESSABLE LOOP CIRCUIT WIRING DIAGRAM-PULL STATIONS AND DETECTORS



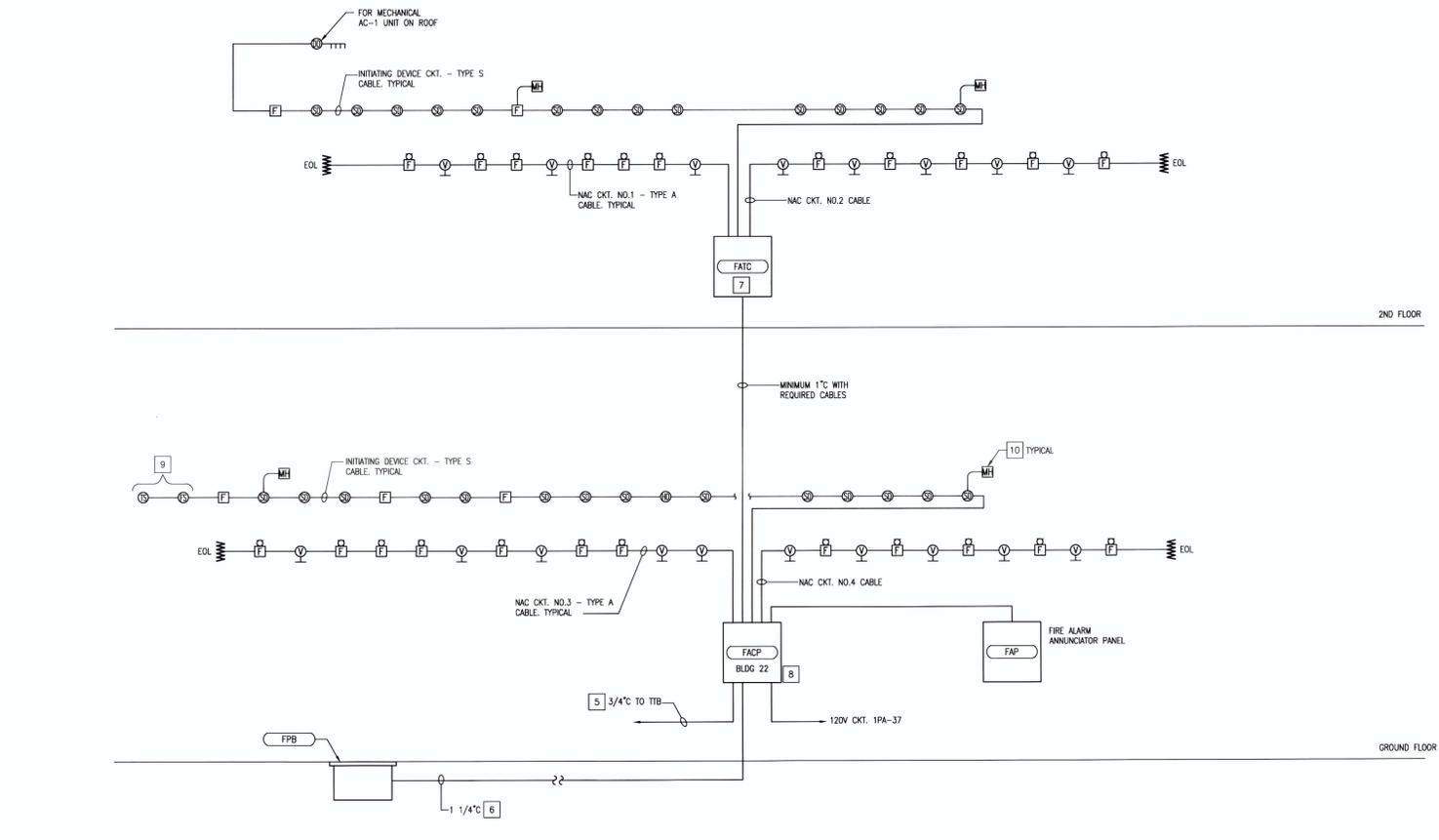
SMOKE DETECTOR AND HEAT DETECTOR WIRING DIAGRAM



HORN APPLIANCE WIRING DIAGRAM



HORN AND STROBE WIRING DIAGRAM



BUILDING 22 - NEW FIRE ALARM RISER DIAGRAM

SCALE: NONE

Revisions:	Date

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Professional Engineer Seal: No. E11374, Exp. Dec. 31, 2015

TRUE

Drawing Title	ELECTRICAL - BUILDING 22 FIRE ALARM RISER DIAGRAM
Scale	NONE
Approved: Project Director	

Project Title	VA Medical Center Seismic Replacement And Retrofit
Project Number	2941-001-00
Building Number	22
Location	San Francisco, CA
Date	10 / 22 / 2012
Checked	AEM
Drawn	BAC
Drawing Number	E202

Office of Facilities Management

Department of Veterans Affairs