

Consultant
 CIVIL ENGINEER
 DeLuca-Hoffman Associates, Inc.
 778 Main Street, Suite 8
 South Portland, ME 04106
 Phone: (207) 775-1121
 Fax: (207) 879-0896

Consultant
 ASSOCIATE ARCHITECT/STRUCTURAL ENGINEER
 SMRT
 144 Fore Street P.O. Box 618
 Portland, Maine 04104
 Phone: (207) 772-3846
 Fax: (207) 772-1070

Consultant
 MECHANICAL/ELECTRICAL ENGINEER
 Bord, Rao + Athanas Consulting Engineers, LLC
 The Arsenal on the Charles
 311 Arsenal Street
 Watertown, MA 02472-5789
 Phone: 617.254.0016
 Fax: 617.924.9339

Consultant
 EQUIPMENT PLANNING
 Gene Burton & Associates
 1893 General George Patton Drive
 Franklin, Tennessee 37067
 Phone: (615) 376-3100
 Fax: (615) 376-3114

Consultant
 CONSTRUCTION MANAGER
 Gilbane Building Company
 7 Jackson Walkway
 Providence, Rhode Island 02903
 Phone: (401) 456-5905
 Fax: (401) 456-5516

Consultant
 FOOD SERVICE
 Inman Foodservice, LLC
 1808 West End Ave, Suite 1400
 Nashville, TN 37203
 Phone: (615) 321-5591
 Fax: (615) 321-5689

It is the responsibility of the Construction Manager/General Contractor and all Sub-Contractors to verify all dimensions and accept conditions of prior work by related trades before proceeding with any work.

Date
 11/10/06 Final-Issued for Constructi
 Drawn By

Scale
 NONE

Francis

Cauffman

Foley

Hoffmann

Francis Cauffman 2120 Arch Street
 Foley Hoffmann Philadelphia, PA 19103
 Architects Ltd. 215-568-8250

Project Title

Mercy Health Care
 System of Maine

FORE RIVER SHORT
 STAY HOSPITAL



Project Number
 F05-4898

Drawing Title and Number
 ELECTRICAL
 FIRE ALARM
 RISER

E4-2

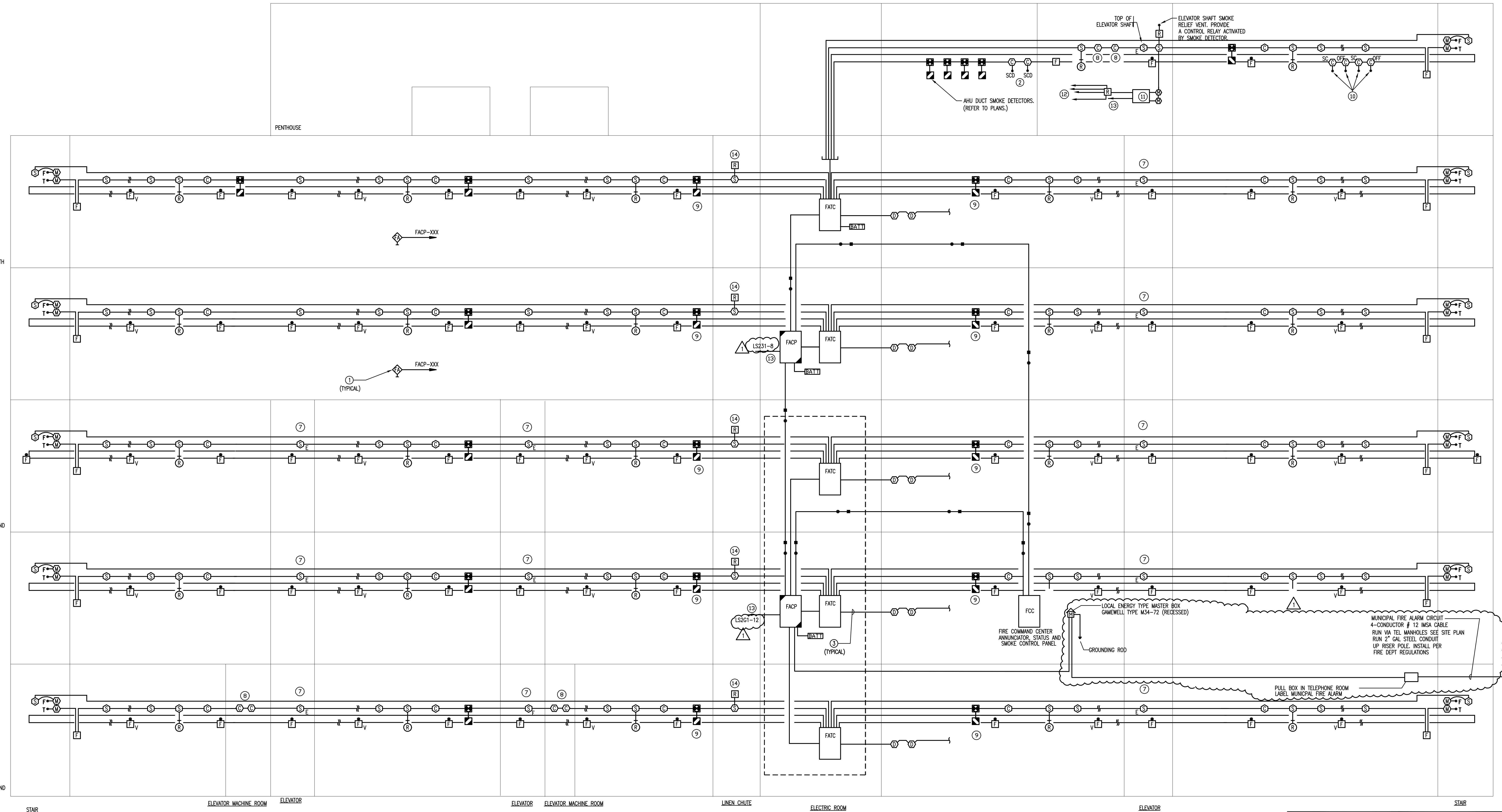
FIRE ALARM KEY NOTES:

- ① PATIENT BED ROOM SMOKE DETECTOR ANNUNCIATOR PANEL.
- ② SMOKE DAMPERS IN PENTHOUSE SMOKE CONTROL SYSTEM.
- ③ PROVIDE CONTROL MODULES AND RELAYS FOR 120 VOLT DOOR HOLDER/RELEASE. PROVIDE SEPARATE CONTROL MODULES AND RELAYS FOR AUTOMATIC DOORS. POWER TO DOOR HOLDERS AND AUTOMATIC DOORS TO BE INTERRUPTED UPON ACTIVATION OF FIRE ALARM SYSTEM ON RESPECTIVE FLOOR OF ALARM. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS.
- ④ 24 VOLT POWER TO DEVICES AS REQUIRED.
- ⑤ PROVIDE CONTROL MODULES AND RELAYS TO SERVE THE SUPPLY AIR SMOKE DAMPERS (120V) AND THE RETURN AIR SMOKE DAMPERS (120V) FOR EACH SMOKE ZONE. REFER TO THE ARCHITECTURAL PLANS FOR THE QUANTITY OF SMOKE ZONES PER FLOOR. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.
- ⑥ PROVIDE CONTROL MODULES AND RELAYS TO RELEASE FOLDING FIRE BARRIERS AND/OR ELECTRICALLY OPERATED DOORS (I.E. AUTOMATIC DOORS, SECURITY DOORS, ETC.) COORDINATE INTERFACE WITH HARDWARE MANUFACTURER AND HOSPITAL SECURITY VENDOR. FIRE BARRIERS ON FLOOR OF ALARM. SEE FLOOR PLANS FOR QUANTITIES, LOCATIONS AND ADDITIONAL INFORMATION.
- ⑦ SMOKE DETECTORS IDENTIFIED "E" ARE DENOTING SPECIFIC SMOKE DETECTORS LOCATED IN ELEVATOR LOBBY FOR ELEVATOR RECALL FUNCTION. UPON ACTIVATION OF ANY ELEVATOR LOBBY SMOKE DETECTORS OTHER THAN THE DESIGNATED LEVEL SHALL SEND A SIGNAL TO CONTROL ZAM AT ELEVATOR CONTROLLERS TO INITIATE RECALL TO DESIGNATED LEVEL. IF DETECTOR IN ALARM IS THE DESIGNATED LEVEL THE RECALL SIGNAL SHALL INITIATE RECALL TO ALTERNATE LEVEL.
- ⑧ ADDRESSABLE CONTROL RELAYS TO SIGNAL ELEVATOR RECALL ONE FOR DESIGNATED LEVEL AND ONE FOR ALTERNATE LEVEL UPON ACTIVATION OF DESIGNATED ELEVATOR LOBBY SMOKE DETECTORS, OR ELEVATOR MACHINE ROOM SMOKE DETECTORS PHASE 1 ELEVATOR RECALL SHALL BE INITIATED.
- ⑨ DUCTSMOKE DETECTORS SHALL BE INSTALLED AT COMMON RETURN DUCTS OF SPECIFIC AHU'S SERVING MORE THAN ONE LEVEL. DETECTORS SHOWN ON PLANS INDICATES UNIT ASSOCIATED WITH RETURN DUCT. DETECTORS SHALL BE PROGRAMMED TO SEND A SIGNAL FIRE ALARM TO INITIATE SMOKE CONTROL. REFER TO PLANS FOR LOCATIONS.
- ⑩ CONTROL ZAMS TO SIGNAL AHU VFD'S TO INDEX TO ATRIUM SMOKE CONTROL MODE. "SC" INDICATES FAN TO SMOKE MODE, "OFF" MANUAL OVERRIDE TO OFF. REFER TO DRAWINGS.
- ⑪ ELEVATOR MACHINE ROOM HEAT DETECTOR SUPERVISORY CONTROL PANELS, FOR ELEVATOR POWER SHUTDOWN. HEAT DETECTORS TO ACTIVATE PRIOR TO SPRINKLER HEADS TO INITIATE SAFETY SHUTDOWN IN ACCORDANCE WITH ANS/A17.1 STANDARDS. SEE DETAIL DRAWING E-6-7 PROVIDE A MONITOR ZAM FOR PANEL SUPERVISION, ALARM AND TROUBLE.
- ⑫ SHUNT TRIP SIGNAL TO ELEVATOR POWER BREAKERS.
- ⑬ AT EACH FIRE ALARM CONTROL PANEL PROVIDE A 120 VOLT EMERGENCY LIFE SAFETY CIRCUIT.
- ⑭ INTERLOCK TO LINEN CHUTE DOOR CONTROL.

FIRE ALARM LEGEND
 CLASS "A" STYLE 7 NETWORK DATA LOOP SHALL BE RUN IN A SEPARATE PATH. SEE PLANS. CABLE SHALL BE PROTEX PYRO C/C FIRE ALARM CABLE IN CONDUIT.
 CLASS "A" STYLE 7 AUDIO DATA LOOP SHALL BE RUN IN A SEPARATE PATH. SEE PLANS. CABLE SHALL BE PROTEX PYRO C/C FIRE ALARM CABLE IN CONDUIT.

FIRE ALARM NOTES:

1. RISER DIAGRAM IS PARTIAL AND DOES NOT SHOW ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITIES OF ALL EQUIPMENT AND DEVICES.
2. ALL WIRING SHALL BE INSTALLED IN CONDUIT. CABLE TYPES AND QUANTITIES PER MANUFACTURERS WIRING DIAGRAMS.
3. REFER TO FIRE PROTECTION DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND QUANTITIES OF FLOW AND TAMPER SWITCHES.
4. EACH FLOOR LEVEL SHALL BE PROVIDED WITH THE FOLLOWING FROM FACP:
 - a. DEDICATED ADDRESSABLE CLASS A LOOP FOR ALL DEVICES.
 - b. 24V PWR FOR ADDRESSABLE MODULES (CONTROL, MONITOR).
 - c. SELECTABLE AUDIO CIRCUITS & STROBE/HANDICAP LIGHT CIRCUITS.
5. THE RETURN CLASS A INITIATION LOOPS SHALL BE RUN BACK TO FACP (TYPICAL EACH FLOOR).
6. REFER TO HVAC SPECIFICATIONS FOR SMOKE CONTROL SEQUENCE OF OPERATION.



NOTES:
 1. REFER TO POWER PLANS FOR EXACT QUANTITY AND LOCATION OF NEW FIRE ALARM DEVICES.
 2. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT.

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