3RD FLOOR FIRE ALARM SYSTEM

SCALE: 3/32" = 1'

EQUIPMENT LEGEND

FACP	FIRE ALARM CONTROL PANEL W/VOICE EVAC MIRCOM FX-2000MNS WITH SLCE & VOICE	MOUNT 60" A.F.F TO CENTER OF BX	(1)
P/R	SMOKE DETECTOR P= PHOTO R= RELAY BASE B224RB ADDRESSABLE MIRCOM 2251B	CEILING MOUNT 3.5 TO 4.0 OCT BX	(176)
H	HEAT DETECTOR ADDRESSABLE MIRCOM 5251B	CEILING MOUNT 3.5 TO 4.0 OCT BX	(15)
DS R	DUCT DETECTOR REMOTE TEST SWITCH R=RETURN SIDE S=SUPPLY SIDE INSTALLED BY OTHERS MONITORED BY FA	INSTALLED BY OTHERS	(3)
F	MANUAL PULL STATION - DUAL ACTION ADDRESSABLE MIRCOM 710ADU	MOUNT 48" A.F.F SINGLE GANG BX	(39)
M	MONITOR MODULE ADDRESSABLE MIRCOM MIX M500M	4 SQ BACK BX	(54)
R	ADDRESSABLE RELAY ADDRESSABLE MIRCOM MIX M500R	4 SQ BACK BX	(25)
R	10AMP CONVENTIONAL RELAY SPACE AGE MR101CR	HOUSING PROVIDED	(8)
DD	24 VOLT DOOR HOLDER DFX 1224	RECESS BACK BOX PROVIDED	(32)
CO	24 VOLT CO DETECTOR MIRCOM CO122AT	4 SQ BACK BX	(6)
SP X	SURGE PROTECT (1) DTK-TSS1 (4) DTK-LVLP 1= SLC, NAC 2= 120V AC, SLC, IDC/P/V, NAC, TELEPHONE	AS REQURED	
FAA	REMOTE ANNUNCIATOR MIRCOM RAXN-LCD	RECESS BACK BOX PROVIDED	(1)
SMK	SMOKE EVAC CONTROL PANEL MIRCOM FX008	RECESS BACK BOX PROVIDED	(1)
M/C	SMOKE EVAC CONTROL PANEL MIRCOM QMP-5101	RECESS BACK BOX PROVIDED	(1)
PS1	NOTIFICAITON POWER SUPPLY MIRCOM INX-10A	MOUNT 60" A.F.F TO CENTER OF BOX	(9)
	WALL MOUNTED VISUAL APPLIANCE SYSTEM SENSOR SW	4 SQ BACK BX SINGLE GANG BX MUD RING	(36)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE SYSTEM SENSOR P2W	4 SQ BACK BX SINGLE GANG MUD RING	(42)
	WALL MOUNTED WEATHER PROOF AUDIBLE/VISUAL APPLIANCE SYSTEM SENSOR P2WK	4 SQ BACK BX SINGLE GANG MUD RING	(1)
	WALL MOUNTED HIGH CANDELA LOW FREQ AUDIBLE/VISUAL APPLIANCE SYSTEM SENSOR P2WH-LF	4 SQ BACK BX	(16)
LF	WALL MOUNTED AUDIBLE APPLIANCE LF=LOW FREQUENCY SYSTEM SENSOR HW-LF	SINGLE GANG MUD RING	(147)
	WALL MOUNTED SPEAKER/VISUAL HI= HIGH CANDELA SYSTEM SENSOR SPSW OR SPSWH	4 SQ BACK BX DEEP	(37)
	WALL MOUNTED SPEAKER DEVICE SYSTEM SENOSR SPW	4 SQ BACK BX DEEP	(4)
J	JUNCTION BOX AS REQUIRED RISER TO UPPER FLOOR		

WIRE LEGEND

CABLING RACE WAY SIZE TYP 3/8" MC

CONDUCTOR TYPE:

16/2 FPLP- SLC CIRCUIT

18/2 FPLP - DATA BUS

14/2 FPLP - NOTIFICATION

16/2 FPLP - 24V CIRCUIT

16/2 FPLP - SPEAKER CIRCUIT

APPLICABLE CODES

ALL WORK WILL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ADOPTED REFERENCE DESIGN STANDARDS BY PRORTLAND MAINE, AND THEIR AMENDMENTS.

BUILDING CODE & EDITION: 2009 ADPOPTED IBC WITH AMENDMENTS

FIRE CODE & EDITION: NFPA 1 ADOPTED & AMENDMENTS

MECHANICAL CODE & EDITION: BOCA NATIONAL MECH CODE & AMENDMENTS

ELECTRICAL CODE & EDITION: 2007 ADOPTED NEC &AMENDMENTS

NFPA 72 EDITION: 2010

CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES SHALL BE BOUGHT TO THE IMMEDIATE ATTENTION OF THE INSTALLING CONTRACTOR.

PROJECT INFORMATION

PROJECT NAME:	**PORTLAND RETIREMENT RESIDENCE**
LOCATION:	**PORTLAND MAINE**
FIRE PROTECTION:	**SPRINKLED, PER NFPA 13**
OCCUPANCY:	**"I-1, B, A-2, A-3"**
BUILDING SQ FT:	**137,038SQFT**

FIRE ALARM SHEET INDEX

SHEET#	DESCRIPTION
FA-1	**MAIN FIRE ALARM SYSTEM, DESIGN NOTES, INSTALLATION NOTES, LEGEND APPLICABLE CODES, WIRE LEGEND, RISER DIAGRAM, INPUT/OUTPUT MATRIX**
FA-2	**1ST FLOOR**
FA-3	**2ND FLOOR**
FA-4	**3RD FLOOR**
FA-5	**4TH FLOOR**
FA-6	**RISER DIAGRAM**

KEYED NOTES

1. **CONNECT TO DOOR CONTROLLER, UPON SMOKE CONTROL ACTIVATION RELAY ACTIVATES DOOR OPENER TO OPEN DOOR, INSTALL 2-2 CONDUCTORS FROM RELAY TO ABOVE DOOR FRAME FOR DOOR HARDWARE TO CONNECT**
2. **CONNECT TO DOUBLE DOORS UPON SMOKE CONTROL ACTIVATION RELAY ACTIVATES TO DOORS - INSTALL 2-2 CONDUCTORS FROM RELAY TO ABOVE DOOR FRAME FOR DOOR HARDWARE TO CONNECT.**
3. **ATRIUM SMOKE CONTROL- MANUAL ON-OFF**
4. **SOUND SYSTEM SHUNT RELAY - THEATER LIGHTING CONTROL ILLUMINATION ON FIRE ALARM ACTIVATION**
5. **KICHEN HOOD SUPPRESSION SYSTEM MONITORING**
6. **MOUNT HEAT DETECTOR WITHIN 2' OF SPRINKLER HEAD**
7. **CONNECT TO FSD CIRCUIT, FSD TO CLOSE UPON ALARM**
8. **DOOR EQUIPPED WITH AUTO CLOSER AND SMOKE SEAL**
9. **PROVIDE RELAY- RELAY TO OPEN ELEVATOR EXHAUST VENT UPON ALARM**
10. **SMOKE DETECTOR TO ANNUNCIATE ALARM AND ACTIVATE ATRIUM SMOKE CONTROL**
11. **FACP INSTALL (2) 12V 65AH BATTERIES**
    FAPS INSTALL (2) 12V 18AH BATTERIES
12. **REQUIRED 120V 20AMP DEDICATED CIRCUIT, LABEL CIRCUIT AS FIRE ALARM. NOTE CIRCUIT NUMBER AND LOCATION IN SIDE DOOR OF FACP & FAPS.**
13. **PROVIDE 2 DEDICATED PHONE LINES FOR COMMUNICATIONS TO REMOTE MONITORING STATION.**
14. **DUCT DETECTOR INSTALLED BY OTHERS, PROVIDE REMOTE TEST SWITCH AND LABEL ACCODING TO CORRISPONDING RTU/AHU UNIT.**
15. **CO DETECTOR INSTALLED AND MONITORED BY FA CONTRACTOR.**
16. **SSF-1 CONTROL DAMPERS TO OPEN UPON ATRIUM SMOKE EVAC ACTIVATION**
17. **ELECTRC STRIKE TO LATCH KITCHENDOORS UPON ATRIUM SMOKE CONTROL ACTIVATION - MONITOR POWER SUPPLY FOR LOW BATTERY & AC LOSS.**
18. **MONITOR ALL SPRINKLER FLOW, TAMPERS, PIV VALVES, AND PRESSURE SWITCHES AS REQUIRED. COORDINATE ALL LOCATIONS WITH SPRINKLER CONTRACTOR**
19. **VERIFY ALL ELEVATOR REQUIREMENTS WITH STATE, LOCAL AHJ, SPRINKLER AND, ELEVATOR CONTRACTOR.**

Christopher Mendel
06.29.17

Christopher Mendel, SET
NICET #96065
Fire Alarm Systems
Level IV (Exp. 03.01.19)

SHEET NO

FA-4

FIRE ALARM
3RD FLOOR

PROJECT NO

PORTLAND RETIREMENT RESIDENCE
802 OCEAN AVE
PORTLAND MAINE 04103

CONTACT KEDRICK BEACH
PHONE: 270.681.4372
MAIN LICENSE #MS60021111

BIRCHALL ELECTRIC
142 MAIN ST UNIT B
SALEM NH 03079
PHONE: 270.681.4372

NO.	DATE	REVISION/ISSUE/CODE	REVIEW	COMMENTS	BY	CHKD
*	06.29.2017					

Date: 10/31/17