



**3RD FLOOR FIRE ALARM SYSTEM**  
SCALE: 3/32" = 1'

EQUIPMENT LEGEND			
[FACP]	FIRE ALARM CONTROL PANEL W/VOICE EVAC	MOUNT 60" A.F.F.	(1)
[MIRCOM]	MIRCOM P4-2000/MS WITH SLS & VOICE	TO CENTER OF RM	(1)
[S]	SMOKE DETECTOR	CEILING MOUNT	(176)
[H]	HEAT DETECTOR	CEILING MOUNT	(176)
[DS]	DUCT DETECTOR	REMOTE TEST SWITCH	(3)
[F]	MANUAL FULL STATION - DUAL ACTION	MOUNT 48" A.F.F.	(176)
[M]	MONITOR MODULE	4 SQ BACK BX	(176)
[R]	ADDRESSABLE RELAY	4 SQ BACK BX	(176)
[R]	10AMP CONVENTIONAL RELAY	HOUSING PROVIDED	(176)
[R]	24 VOLT DOOR HOLDER	RECESS BACK BOX PROVIDED	(176)
[D]	24 VOLT CO DETECTOR	4 SQ BACK BX	(176)
[SP]	SURGE PROTECT (1) DTRCTSS1 (4) DTRKLVLP	AS REQUIRED	(176)
[FAA]	REMOTE ANNUNCIATOR	RECESS BACK BOX PROVIDED	(176)
[SMC]	SMOKE EVAC CONTROL PANEL	RECESS BACK BOX PROVIDED	(176)
[LMC]	NOTIFICATION POWER SUPPLY	MOUNT 60" A.F.F.	(176)
[PS1]	WALL MOUNTED VISUAL APPLIANCE	4 SQ BACK BX	(176)
[PS2]	WALL MOUNTED AUDIBLE VISUAL APPLIANCE	4 SQ BACK BX	(176)
[PS3]	WALL MOUNTED WEATHER PROOF AUDIBLE VISUAL APPLIANCE	4 SQ BACK BX	(176)
[PS4]	WALL MOUNTED HIGH CANDLE LOW FREQ AUDIBLE VISUAL APPLIANCE	4 SQ BACK BX	(176)
[PS5]	WALL MOUNTED AUDIBLE APPLIANCE	4 SQ BACK BX	(176)
[PS6]	WALL MOUNTED SPEAKER VISUAL APPLIANCE	4 SQ BACK BX	(176)
[PS7]	WALL MOUNTED SPEAKER DEVICE	4 SQ BACK BX	(176)
[PS8]	JUNCTION BOX	AS REQUIRED	(176)

WIRE LEGEND	
CABLING RACE WAY SIZE TYP 3/8" MC	
CONDUCTOR TYPE:	
162 FPLP - SLC CIRCUIT	---
162 FPLP - DATA BUS	---
142 FPLP - NOTIFICATION	---
162 FPLP - 24V CIRCUIT	---
162 FPLP - SPEAKER CIRCUIT	---

**APPLICABLE CODES**  
ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ADOPTED REFERENCE DESIGN STANDARDS BY PORTLAND MAINE, AND THEIR AMENDMENTS.  
BUILDING CODE & EDITION: 2009 ADOPTED 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 BROUGHT TO THE IMMEDIATE ATTENTION OF THE INSTALLING CONTRACTOR.

**PROJECT INFORMATION**  
PROJECT NAME: PORTLAND RETIREMENT RESIDENCE  
LOCATION: PORTLAND MAINE  
FIRE PROTECTION: SPRINKLER, PER NFPA 13  
OCCUPANCY: "I-1, B, A-2, A-3"  
BUILDING SQ FT: 137,888 SQ FT  
**FIRE ALARM SHEET INDEX**  
SHEET # DESCRIPTION  
FA-1 MAIN FIRE ALARM SYSTEM, DESIGN NOTES, INSTALLATION NOTES, LEGEND, APPLICABLE CODES, WIRE LEGEND, RISER DIAGRAM  
FA-2 1ST FLOOR  
FA-3 2ND FLOOR  
FA-4 3RD FLOOR  
FA-5 4TH FLOOR  
FA-6 RISER DIAGRAM

- KEYED NOTES**
- CONNECT TO DOOR CONTROLLER. UPON SMOKE CONTROL ACTIVATION RELAY ACTIVATES DOOR OPENER TO OPEN DOOR. INSTALL 2 CONDUCTORS FROM RELAY TO ABOVE DOOR FRAME FOR DOOR HARDWARE TO CONNECT.
  - CONNECT TO DOUBLE DOORS UPON SMOKE CONTROL ACTIVATION RELAY ACTIVATES TO DOORS. INSTALL 2 CONDUCTORS FROM RELAY TO ABOVE DOOR FRAME FOR DOOR HARDWARE TO CONNECT.
  - ATRUM SMOKE CONTROL - MANUAL ON-OFF
  - SDS SYSTEM SHUNT RELAY - THEATER LIGHTING CONTROL ILLUMINATION ON FIRE ALARM ACTIVATION
  - KITCHEN HOOD SUPPRESSION SYSTEM MONITORING
  - MOUNT HEAT DETECTOR WITHIN 2' OF SPRINKLER HEAD
  - CONNECT TO FSD CIRCUIT. FSD TO CLOSE UPON ALARM
  - DOOR EQUIPPED WITH AUTO CLOSER AND SMOKE SEAL
  - PROVIDE RELAY - RELAY TO OPEN ELEVATOR DRUMSET WENT UPON ALARM
  - SMOKE DETECTOR TO ANNUNCIATE ALARM AND ACTIVATE ATRUM SMOKE CONTROL
  - FACP INSTALL (2) 12V 6AH BATTERIES  
FAPS INSTALL (2) 12V 6AH BATTERIES
  - REQUIRED 120V 20AMP DEDICATED CIRCUIT. LABEL CIRCUIT AS FIRE ALARM. NOTE CIRCUIT NUMBER AND LOCATION IN SIDE DOOR OF FACP & FAPS.
  - PROVIDE 2 DEDICATED PHONE LINES FOR COMMUNICATIONS TO REMOTE MONITORING STATION
  - DUCT DETECTOR INSTALLED BY OTHERS. PROVIDE REMOTE TEST SWITCH AND LABEL ACCORDS TO CORRESPONDING RYHUM UNIT
  - CO DETECTOR INSTALLED AND MONITORED BY FA CONTRACTOR.
  - SSF-1 CONTROL DAMPERS TO OPEN UPON ATRUM SMOKE EVAC ACTIVATION
  - ELECTRIC STRIKE TO LATCH KITCHEN DOORS UPON ATRUM SMOKE CONTROL ACTIVATION - MONITOR POWER SUPPLY FOR LOW BATTERY & AC LOSS.
  - MONITOR ALL SPRINKLER FLOW, TAMPERS, PIV VALVES, AND PRESSURE SWITCHES AS REQUIRED. COORDINATE ALL LOCATIONS WITH SPRINKLER CONTRACTOR
  - VERIFY ALL ELEVATOR REQUIREMENTS WITH STATE, LOCAL, ANI, SPRINKLER AND ELEVATOR CONTRACTOR.

**PORTLAND RETIREMENT RESIDENCE**  
802 OCEAN AVE  
PORTLAND MAINE 04103

**BIRCHALL ELECTRIC**  
142 MAIN ST UNIT B  
SALEW NH 03079  
PHONE: 270.681.4372  
MAIN LICENSE #MS00021111

**Christopher Mendel**  
06.29.17  
Christopher Mendel, SET  
NICET #96065  
Fire Alarm Systems  
Level IV (Exp. 03.01.19)

**FA-4**  
FIRE ALARM  
3RD FLOOR

PROJECT NO