



EQUIPMENT LEGEND			
[FACP]	FIRE ALARM CONTROL PANEL W/VOICE EVAC	MOUNT 60" A.F.F. TO CENTER OF RM	(1)
[MIRCOM]	MIRCOM P4-2000WB WITH SLSG & VOICE	CEILING MOUNT	(17)
[S]	SMOKE DETECTOR	3.5 TO 4.0 OCT BX	(115)
[H]	HEAT DETECTOR	CEILING MOUNT	(115)
[DS]	DUCT DETECTOR	REMOTE TEST SWITCH	(3)
[F]	FIRE TUBER SIZE SUPPLY GISE	INSTALLED BY OTHERS MONITORED BY FA	(3)
[M]	MANUAL FULL STATION - DUAL ACTION	MOUNT 48" A.F.F. SINGLE GANG BX	(39)
[R]	RESISTOR	4 SQ BACK BX	(34)
[R]	ADDRESSABLE RELAY	4 SQ BACK BX	(25)
[R]	10AMP CONVENTIONAL RELAY	HOUSING PROVIDED	(3)
[R]	24 VOLT DOOR HOLDER	RECESS BACK BOX PROVIDED	(33)
[R]	24 VOLT DOOR HOLDER	4 SQ BACK BX	(6)
[SP]	SURGE PROTECT (1) DTRCT1551 (4) DTRK-LVLP	AS REQUIRED	
[SP]	2-120V AC, SLC, IDC/SPV, NAC, TELEPHONE		
[FAA]	REMOTE ANNUNCIATOR	RECESS BACK BOX PROVIDED	(1)
[SMC]	MIRCOM RAIN-LCD	RECESS BACK BOX PROVIDED	(1)
[SMC]	SMOKE EVAC CONTROL PANEL	RECESS BACK BOX PROVIDED	(1)
[SMC]	MIRCOM GMP-5101	RECESS BACK BOX PROVIDED	(1)
[PS1]	NOTIFICATION POWER SUPPLY	MOUNT 60" A.F.F. TO CENTER OF RM	(6)
[PS1]	MIRCOM IN5-10A	4 SQ BACK BX SINGLE GANG BX MID RING	(26)
[PS1]	WALL MOUNTED VISUAL APPLIANCE	4 SQ BACK BX SINGLE GANG BX MID RING	(142)
[PS1]	SYSTEM SENSOR SW	4 SQ BACK BX SINGLE GANG BX MID RING	(1)
[PS1]	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE	4 SQ BACK BX SINGLE GANG BX MID RING	(142)
[PS1]	WALL MOUNTED WEATHER PROOF AUDIBLE/VISUAL APPLIANCE	4 SQ BACK BX SINGLE GANG BX MID RING	(1)
[PS1]	WALL MOUNTED HIGH CANDELA LOW FREQ. AUDIBLE/VISUAL APPLIANCE	4 SQ BACK BX	(148)
[PS1]	SYSTEM SENSOR P20W	4 SQ BACK BX	(147)
[PS1]	WALL MOUNTED AUDIBLE APPLIANCE	SINGLE GANG MID RING	(148)
[PS1]	WALL MOUNTED SPEAKER/VISUAL	4 SQ BACK BX DEEP	(37)
[PS1]	WALL MOUNTED SPEAKER DEVICE	4 SQ BACK BX DEEP	(4)
[PS1]	SYSTEM SENSOR SPW	4 SQ BACK BX DEEP	(4)
[PS1]	JUNCTION BOX AS REQUIRED	RISER TO UPPER FLOOR	

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:	137,638SQFT

FIRE ALARM SHEET INDEX	
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**
- 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
  - SOUND 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 12V 6AH BATTERIES
  - FACP INSTALL 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.
  - SP-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.

**4TH FLOOR FIRE ALARM SYSTEM**  
SCALE: 3/32" = 1'

PORTLAND RETIREMENT RESIDENCE  
 802 OCEAN AVE  
 PORTLAND MAINE 04103  
 CONTACT: KEDRICK BEACH  
 PHONE: 270.681.4372  
 MAIN LICENSE #MS00021111  
 BIRCHALL ELECTRIC  
 142 MAIN ST UNIT B  
 SALEM NH 03079  
 PHONE: 270.681.4372

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

**FA-5**  
 FIRE ALARM  
 4TH FLOOR

PROJECT NO