



1ST FLOOR CORE FIRE ALARM SYSTEM

SCALE: 3/32" = 1"

EQUIPMENT LEGEND			
[FACP]	FIRE ALARM CONTROL PANEL W/VOICE EVAC	MOUNT 60" A.F.F. TO CENTER OF RM	(1)
[MIRCOM]	MIRCOM P1-2000A88 WITH SLS & VOICE	TO CENTER OF RM	(1)
[S]	SMOKE DETECTOR	CEILING MOUNT	(176)
[P]	PHOTO IRI RELAY BASE B248RB	3.5 TO 4.0 OCT BK	(1)
[A]	ADDRESSABLE MIRCOM 2201B	3.5 TO 4.0 OCT BK	(1)
[H]	HEAT DETECTOR	CEILING MOUNT	(1)
[A]	ADDRESSABLE MIRCOM 5251B	3.5 TO 4.0 OCT BK	(1)
[D]	DUCT DETECTOR REMOTE TEST SWITCH	INSTALLED BY OTHERS MONITORED BY FA	(3)
[R]	RETIRED FIRE SUPPLY SIZE	INSTALLED BY OTHERS MONITORED BY FA	(3)
[M]	MANUAL FULL STATION - DUAL ACTION	MOUNT 48" A.F.F. SINGLE GANG BK	(3)
[M]	MONITOR MODULE	4 SQ BACK BX	(3)
[R]	ADDRESSABLE RELAY	4 SQ BACK BX	(3)
[R]	15AMP CONVENTIONAL RELAY	HOUSING PROVIDED	(3)
[H]	24 VOLT DOOR HOLDER	RECESS BACK BOX PROVIDED	(3)
[H]	24 VOLT DOOR HOLDER	RECESS BACK BOX PROVIDED	(3)
[D]	24 VOLT CO DETECTOR	4 SQ BACK BX	(3)
[S]	MIRCOM COV28T	4 SQ BACK BX	(3)
[S]	SURGE PROTECT (1) DTRCT881 (4) DTRCLVLP	AS REQUIRED	(3)
[S]	2-120V AC, SLC, IDCPV, NAC, TELEPHONE	AS REQUIRED	(3)
[FAA]	REMOTE ANNUNCIATOR	RECESS BACK BOX PROVIDED	(1)
[MIRCOM]	MIRCOM RAXN-LCD	RECESS BACK BOX PROVIDED	(1)
[SMK]	SMOKE EVAC CONTROL PANEL	RECESS BACK BOX PROVIDED	(1)
[SMK]	SMOKE EVAC CONTROL PANEL	RECESS BACK BOX PROVIDED	(1)
[LMC]	NOTIFICATION POWER SUPPLY	MOUNT 60" A.F.F. TO CENTER OF RM	(3)
[PS1]	MIRCOM N5-10A	4 SQ BACK BX SINGLE GANG BK MID RING	(3)
[PS1]	WALL MOUNTED VISUAL APPLIANCE	4 SQ BACK BX SINGLE GANG BK MID RING	(3)
[PS1]	SYSTEM SENSOR SW	4 SQ BACK BX SINGLE GANG BK MID RING	(3)
[PS1]	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE	4 SQ BACK BX SINGLE GANG BK MID RING	(3)
[PS1]	WALL MOUNTED WEATHER PROOF AUDIBLE/VISUAL APPLIANCE	4 SQ BACK BX SINGLE GANG BK MID RING	(3)
[PS1]	WALL MOUNTED HIGH CANDLE LOW FREQ. AUDIBLE/VISUAL APPLIANCE	4 SQ BACK BX SINGLE GANG BK MID RING	(3)
[PS1]	WALL MOUNTED AUDIBLE APPLIANCE	4 SQ BACK BX SINGLE GANG BK MID RING	(3)
[PS1]	WALL MOUNTED WEATHER PROOF VISUAL APPLIANCE	4 SQ BACK BX DEEP	(3)
[PS1]	WALL MOUNTED SPEAKER/REVISUAL APPLIANCE	4 SQ BACK BX DEEP	(3)
[PS1]	WALL MOUNTED SPEAKER DEVICE	4 SQ BACK BX DEEP	(3)
[J]	JUNCTION BOX AS REQUIRED	RISER TO UPPER FLOOR	(3)

WIRE LEGEND	
CABLING	RACE WAY TYPE 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
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:	SPRINKLER, PER NFPA 13
OCCUPANCY:	"I-1, B, A-2, A-3"
BUILDING SQ FT:	137,638SQFT

FIRE ALARM SHEET INDEX	
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 | ATRUM SMOKE CONTROL - MANUAL ON-OFF |
| 4 | SOUND SYSTEM SHUNT RELAY - THEATER LIGHTING CONTROL ILLUMINATION ON FIRE ALARM ACTIVATION |
| 5 | KITCHEN 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 DRUMSET WAIT UPON ALARM |
| 10 | SMOKE DETECTOR TO ANNUNCIATE ALARM AND ACTIVATE ATRUM SMOKE CONTROL |
| 11 | FACP INSTALL 12V 6AH BATTERIES |
| 12 | FACP INSTALL 12V 6AH BATTERIES |
| 13 | REQUIRED 120V 20AMP DEDICATED CIRCUIT, LABEL CIRCUIT AS FIRE ALARM, NOTE CIRCUIT NUMBER AND LOCATION IN SIDE DOOR OF FACP & FAPS. |
| 14 | PROVIDE 2 DEDICATED PHONE LINES FOR COMMUNICATIONS TO REMOTE MONITORING STATION |
| 15 | DUCT DETECTOR INSTALLED BY OTHERS, PROVIDE REMOTE TEST SWITCH AND LABEL ACCORDS TO CORRESPONDING RYTHAM UNIT |
| 16 | CO DETECTOR INSTALLED AND MONITORED BY FA CONTRACTOR. |
| 17 | 88F-1 CONTROL DAMPERS TO OPEN UPON ATRUM SMOKE EVAC ACTIVATION |
| 18 | ELECTRIC STRIKE TO LATCH KITCHENDOORS UPON ATRUM SMOKE CONTROL ACTIVATION - MONITOR POWER SUPPLY FOR LOW BATTERY & AC LOSS. |
| 19 | MONITOR ALL SPRINKLER FLOW, TAMPERS, PIV VALVES, AND PRESSURE SWITCHES AS REQUIRED. COORDINATE ALL LOCATIONS WITH SPRINKLER CONTRACTOR |
| 20 | VERIFY ALL ELEVATOR REQUIREMENTS WITH STATE, LOCAL, AND SPRINKLER AND ELEVATOR CONTRACTOR. |

PORTLAND RETIREMENT RESIDENCE
 802 OCEAN AVE
 PORTLAND MAINE 04103

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

NICET CERTIFIED

Christopher Mendel
 06.29.17

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

SHEET NO
FA-6
 FIRE ALARM
 DEVICE RISER
 DIAGRAM

PROJECT NO