GENERAL NOTES

1. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
2. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT SIMPLEXGRINNELL IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
3. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
4. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
5. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
6. UPDATE THE AS-BUILT DRAWING SET DAILY WITH JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO SIMPLEXGRINNELL NO LATER THAN 7 DAYS AFTER FINAL TEST.
7. THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMAN LIKE MANNER.
8. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED SIMPLEXGRINNELL TECHNICAL REPRESENTATIVE.
9. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
10. THE FIRE ALARM INSTALLER WILL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ASSEMBLIES ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.
11. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NEC.
12. ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC).
13. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPROPRIATE SECTION OF NEC 760. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH NEC 760 SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.
14. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
15. FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATE MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE FPLR.
16. FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.
17. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOOR SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE.
18. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
19. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.
20. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
21. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
22. MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.
23. EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY, HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES. SIMPLEXGRINNELL MAKES NO STATEMENTS WRITTEN OR VERBAL AS TO THE CONDITION OF EXISTING CONDUITS.

WIRE SCHEDULE

FIRE ALARM WIRE LIST

A	AUXILIARY POWER CIRCUIT – 2 CONDUCTOR 14 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454718ARE AREA=0.0380 SQ. INCH	CONDUIT ONLY: THHN PAIGE 454314BR #14 AWG TP (BLACK/RED) AREA=0.0394 SQ. INCH		PLENUM RATED: FPLP PAIGE 454719ARE AREA=0.0333 SQ. INCH
B	RUI/N2 COMMUNICATION – 1 PAIR 18 AWG TWISTED OVERALL SHIELD NON-PLENUM RATED: FPL PAIGE 740215 AREA=0.0196 SQ. INCH	NON-PLENUM RATED: FPLR PAIGE 740215 AREA=0.0196 SQ. INCH		PLENUM RATED: FPLP PAIGE 740214L AREA=0.0196 SQ. INCH
D	DOOR HOLDER CIRCUIT – 2 CONDUCTOR 14 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454718ARE AREA=0.0380 SQ. INCH	CONDUIT ONLY: THHN PAIGE 454314BR #14 AWG TP (BLACK/RED) AREA=0.0394 SQ. INCH		PLENUM RATED: FPLP PAIGE 454719ARE AREA=0.0333 SQ. INCH
H	AUDIBLE CIRCUIT – 2 CONDUCTOR 14 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454718ARE AREA=0.0380 SQ. INCH	CONDUIT ONLY: THHN (2) #14 AWG (RED/BLACK) AREA=0.0097 SQ. INCH (EACH) ********** REFER TO SIGNAL CIRCUIT DISTANCE CHART **********		PLENUM RATED: FPLP PAIGE 454719ARE AREA=0.0333 SQ. INCH
K	REMOTE TEST SWITCH/LED CIRCUIT – 2/2 CONDUCTOR 18 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454703ARE AREA=0.0204 SQ. INCH	CONDUIT ONLY: TFFN (2) #18 AWG (PINK/BROWN) (2) #18 AWG (WHITE/ORANGE) AREA=0.0055 SQ. INCH (EACH)		PLENUM RATED: FPLP PAIGE 740132 AREA=0.0141 SQ. INCH
M	IDNET CIRCUIT – 1 PAIR 18 AWG UNSHIELDED TWISTED NON-PLENUM RATED: FPLR PAIGE 454703ARE AREA=0.0204 SQ. INCH	CONDUIT ONLY: TFFN (2) #18 AWG (YELLOW/BLUE) AREA=0.0055 SQ. INCH (EACH)		PLENUM RATED: FPLP PAIGE 740132 AREA=0.0141 SQ. INCH
P	MAPNET/IDNET POWER CIRCUIT – 2 CONDUCTOR 14 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454718ARE AREA=0.0380 SQ. INCH	CONDUIT ONLY: THHN PAIGE 454314BR #14 AWG TP (BLACK/RED) AREA=0.0394 SQ. INCH		PLENUM RATED: FPLP PAIGE 454719ARE AREA=0.0333 SQ. INCH
R	RELAY CIRCUIT – 2 CONDUCTOR 14 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454718ARE AREA=0.0380 SQ. INCH	CONDUIT ONLY: THHN PAIGE 454314BR #14 AWG TP (BLACK/RED) AREA=0.0394 SQ. INCH		PLENUM RATED: FPLP PAIGE 454719ARE AREA=0.0333 SQ. INCH
V	VISUAL/SIGNAL CIRCUIT – 2 CONDUCTOR 14 AWG STRANDED NON-PLENUM RATED: FPLR PAIGE 454674ARE AREA=0.0449 SQ. INCH	CONDUIT ONLY: THHN (2) #14 AWG (RED/BLACK) AREA=0.0097 SQ. INCH (EACH) ********** REFER TO SIGNAL CIRCUIT DISTANCE CHART **********		PLENUM RATED: FPLP PAIGE 454696ARE AREA=0..0356 SQ. INCH
Z	ZONE CIRCUIT – 2 CONDUCTOR 18 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454703ARE AREA=0.0204 SQ. INCH	CONDUIT ONLY: TFFN (2) #18 AWG (YELLOW/BLUE) AREA=0.0055 SQ. INCH (EACH)		PLENUM RATED: FPLP PAIGE 740132 AREA=0.0141 SQ. INCH

CONDUIT SIZE	CONDUCTOR AREA	CONDUIT SIZE	CONDUCTOR AREA
1/2"	0.12 SQ INCH *	1-1/4"	0.60 SQ INCH *
3/4"	0.21 SQ INCH *	1-1/2"	0.82 SQ INCH *
1"	0.34 SQ INCH *	2"	1.34 SQ INCH *

* 40% FILL PER N.E.C.

THE CABLES SPECIFIED HERE ARE FOR REFERENCE OF REQUIRED ELECTRICAL CHARACTERISTICS AS WELL AS CODE REQUIREMENTS. ALTERNATE SUPPLIERS MAY BE SUBSTITUTED PROVIDING EQUIVALENT CHARACTERISTICS ARE MAINTAINED. ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION.

SYSTEM DESCRIPTION / SCOPE OF WORK

OCCUPANCY TYPE: R-2 RESIDENTIAL GROUP

SPRINKLER PROTECTION: BUILDING IS FULLY SPRINKLED.

PROVIDE AND INSTALL A NEW AUTOMATIC AND MANUAL FIRE ALARM SYSTEM AS SHOWN ON DRAWINGS.

ALL WIRING TO BE CLASS A.

AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY THE OWNER.

FIRE ALARM APPLICABLE STATE CODES & STANDARDS

- NFPA 101, 1997
- NATIONAL ELECTRIC CODE 2002 (NFPA 70).
- ELEVATOR CODE ASHE A.17.1, 2000 ADDENDA A17.1.A, 2002

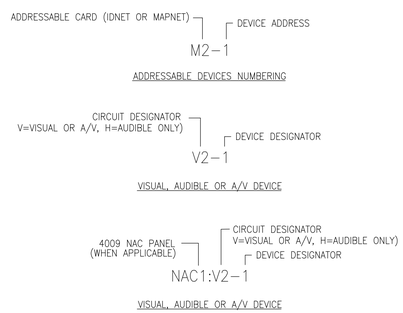
NOTE: BUILDING CODES ARE ESTABLISHED BY THE LOCAL JURISDICTIONS. CONTACT THE AUTHORITIES HAVING JURISDICTION DIRECTLY FOR APPLICABLE CODE INFORMATION.

ABBREVIATIONS LEGEND

AC = ABOVE CEILING
C = CEILING MOUNTED
E = EXISTING TO REMAIN
RC = EXISTING TO REMOVE AND COVER
RD = EXISTING DEVICE TO BE RELOCATED
RL = RELOCATED DEVICE
RR = REMOVE EXISTING AND REPLACE W/NEW
WP = WEATHERPROOF
XP = EXPLOSION PROOF

AFF = ABOVE FINISHED FLOOR
AHJ = AUTHORITY HAVING JURISDICTION
ALM = ALARM
ANN = ANNUNCIATOR
BMS = BUILDING MANAGEMENT SYSTEM
CBC = CALIFORNIA BUILDING CODE
CD = (eg. 15CD) CANDELA
CSFM = CALIFORNIA STATE FIRE MARSHALL
DET = DETECTOR
DGP = DATA GATHERING PANEL
EOL = END OF LINE
EPO = EMERGENCY POWER OFF
FACP = FIRE ALARM CONTROL PANEL
FATC = FIRE ALARM TERMINAL CABINET
FBO = FURNISHED BY OTHERS
FCC = FIRE COMMAND CENTER
FAA = FIRE ALARM ANNUNCIATOR
FTR = FIRE ALARM TRANSPONDER
FSD = FIRE SMOKE DAMPER
HT = HEIGHT
HVAC = HEATING, VENTILATION, & AIR CONDITIONING
IMS = INFORMATION MANAGEMENT SYSTEM
MAX = MAXIMUM
MIN = MINIMUM
N/A = NOT APPLICABLE
NAC = NOTIFICATION APPLIANCE CIRCUIT EXTENDER
NDU = NETWORK DISPLAY UNIT
NEC = NATIONAL ELECTRICAL CODE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION
NIC = NOT IN CONTRACT
NPU = NETWORK PROCESSING UNIT
NTS = NOT TO SCALE
PAP = PRE-ACTION PANEL
SCC = STATUS COMMAND CENTER
SLC = SIGNALING LINE CIRCUIT
SMK = SMOKE
SUPV = SUPERVISORY
TAC = TRUEALERT ADDRESSABLE CONTROLLER
TRBL = TROUBLE
TS = TAMPER SWITCH
TYP = TYPICAL
UON = UNLESS OTHERWISE NOTED
VCC = VOICE COMMAND CENTER
VT = VALVE TAMPER
WF = WATER FLOW
W = (eg. 1/2W) WATT
W/ = WITH
W/O = WITH OUT

DEVICE ADDRESSING LEGEND



SYMBOL KEY

FIRE ALARM SYMBOLS LEGEND

SYMBOL	DESCRIPTION	MODEL#	BACKBOX
FACP	FIRE ALARM CONTROL PANEL W / 18AH BATTERY SET	SIMPLEX 4010-9401 SIMPLEX 2081-9275	SUPPLIED BY SIMPLEXGRINNELL
NAC#	NAC EXTENDER PANEL # DESIGNATES THE NAC PANEL NUMBER W / 6.2AH BATTERY SET	SIMPLEX 4009-9201 SIMPLEX 2081-9272	SUPPLIED BY SIMPLEXGRINNELL
FAA	FIRE ALARM ANNUNCIATOR PANEL	SIMPLEX 4606-9102	6 SINGLE GANG BOXES 3 1/2" DEEP
F	MANUAL PULL STATION	SIMPLEX 4099-9001	SINGLE GANG BOX 2 1/2" DEEP
AIM	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX 4090-9001	SINGLE GANG BOX 2 1/2" DEEP WITH COVER
AIMR	RELAY IAM	SIMPLEX 4090-9002	4" SQUARE BOX 2 1/8" DEEP W/TWO GANG COVER
ISO	ISOLATOR MODULE	SIMPLEX 4090-9116	4" SQUARE BOX 2 1/8" DEEP W/TWO GANG COVER
S	SMOKE SENSOR / BASE	SIMPLEX 4098-9714 SIMPLEX 4098-9792 BASE	4" OCTAGONAL BOX 1 1/2" DEEP
CO/S	SMOKE SENSOR, WITH CO SENSOR BASE S = INTEGRAL SOUNDER	SIMPLEX 4098-9714 SIMPLEX 4098-9798 BASE	4" OCTAGONAL BOX 1 1/2" DEEP
CO	HEAT SENSOR, WITH CO SENSOR BASE	SIMPLEX 4098-9733 SIMPLEX 4098-9797 BASE	4" OCTAGONAL BOX 1 1/2" DEEP
H	HEAT SENSOR / BASE	SIMPLEX 4098-9733 SIMPLEX 4098-9792 BASE	4" OCTAGONAL BOX 1 1/2" DEEP
R	HEAVY DUTY RELAY – 30A DPDT 24 VDC	AIR PRODUCTS MR-199X-13	N/A
DH	DUCT SMOKE SENSOR	SIMPLEX 4098-9756	MOUNT TO DUCTWORK
ER	ENCAPSULATED RELAY	SIMPLEX 4098-9843	SINGLE GANG BOX 2 1/8" DEEP W/COVER
#	WALL MOUNT MULTI-CANDELA V/O RED # =CANDELA RATING	SIMPLEX 4906-9101	4" SQUARE BOX 1 1/2" DEEP W/4905-9937 ADAPTER SKIRT WHEN SURFACE MOUNTED
#	WALL MOUNT MULTI-CANDELA A/V RED # =CANDELA RATING	SIMPLEX 4906-9127	4" SQUARE BOX 1 1/2" DEEP W/4905-9937 ADAPTER SKIRT WHEN SURFACE MOUNTED
WP #	WEATHERPROOF WALL MOUNT MULTI-CANDELA A/V RED # =CANDELA RATING	SIMPLEX 4906-9131	SUPPLIED BY SIMPLEXGRINNELL
FS	WATERFLOW SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR
VS	TAMPER SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR
CL	CARBON MONOXIDE DETECTOR ALARM 120VAC L =LOCAL ALARM ONLY	GENTEX C01209	QUICK-DISCONNECT WIRING HARNESS INCLUDED
SL	SMOKE ALARM W/ VISUAL SIGNAL 120VAC L =LOCAL ALARM ONLY	GENTEX 7109CS-C	QUICK-DISCONNECT WIRING HARNESS INCLUDED
DH	DOOR HOLDER	DH24120FPC	SUPPLIED BY SIMPLEXGRINNELL
KB	KNOX BOX REPOSITORY BOX	KNOX BOX 4100	N/A
TC4	TEMPORAL CODE 4 MODULE	SIMPLEX 4905-9835	4" SQUARE BACK BOX, 2 1/8" DEEP

SEQUENCE OF OPERATION

SYSTEM INPUTS	SYSTEM OUTPUTS: ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL MUNICIPAL EVACUATION SIGNALS	ACTUATE ALL VOICE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISORY STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISORY STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RELEASE ELEVATOR FIRE DOORS	ELEVATOR SHUNT TRIP	MAIN FLOOR ELEVATOR RECALL	ALTERNATE FLOOR ELEVATOR RECALL	ELEVATOR FIRE ELEVATOR RECALL	ELEVATOR FIRE FLASH	FAN SHUT DOWN	DAMPER SHUT DOWN	REMARKS
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	
1 SMOKE SENSOR/DETECTOR	•	•					•	•	•		•	•																			•	•		1
2 MANUAL PULL STATION	•	•					•	•	•		•	•																						2
3 HEAT SENSOR/DETECTOR	•	•					•	•	•		•	•																						3
4 DUCT SENSOR/DETECTOR			•	•			•				•		•																		•	•		4
5 MAIN FLR. ELEV. LOBBY SMOKE DETECTOR	•	•					•	•	•		•	•					•		•												•	•		5
6 ELEVATOR LOBBY SMOKE DETECTORS (EXC. MAIN FLR.)	•	•					•	•	•		•	•					•		•												•	•		6
7 ELEVATOR MECH. ROOM HEAT DETECTOR	•	•					•	•	•		•	•						•													•	•		7
8 ELEVATOR MECH. ROOM SMOKE DETECTOR	•	•					•	•	•		•	•						•		•											•	•		8
9 ELEVATOR SHAFT HEAT DETECTOR	•	•					•	•	•		•	•						•																9
10 ELEVATOR SHAFT SMOKE DETECTOR	•	•					•	•	•		•	•							•		•													10
11 ELEVATOR POWER MONITOR			•	•			•				•		•																					11
12 WATERFLOW SWITCH	•	•					•	•	•		•	•																						12
13 TAMPER SWITCH			•	•			•				•		•																					13
14																																		14
15 GENERATOR RUNNING			•	•			•				•		•																					15
16 GENERATOR FAULT					•	•	•				•			•																				16
17 FIRE ALARM AC POWER FAILURE					•	•					•			•			•																	17
18 FIRE ALARM SYSTEM LOW BATTERY					•	•					•			•																				18
19 OPEN CIRCUIT OR GROUND FAULT					•	•					•			•																				19
20 CLASS A NOTIFICATION APPLIANCE CIRCUIT SHORT					•	•					•			•																				20
21																																		21
22 SYSTEM CONNECTED CO DETECTOR OPERATION			•	•			•				•		•																					22
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NO.	DATE	REVISION DESCRIPTION	CHKD BY
1	3/29/12	REVISED PER FIRE DEPARTMENT REVIEW COMMENTS DATED 3/20/13	

FIRE ALARM & SMOKE DETECTION SYSTEM
GENERAL INFORMATION

DANFORTH ON HIGH
81 DANFORTH STREET
PORTLAND, ME 04101

DRAWN BY: M.DESIATA	DATE: 10/10/12
CHECKED BY: S.KALAFARSKI	DATE: 10/19/12
PROJECT NUMBER: 966796101	
SHEET TITLE: FIRE ALARM/SMOKE SYSTEM GENERAL INFORMATION	
SHEET NUMBER: FA-002	
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