WIRING DIAGRAM

NOTES:

1. REFER TO NFPA 72-2013 SECTION 21.3 FOR SMOKE DETECTOR ELEVATOR CONTROL CIRCUIT REQUIREMENTS. ACTIVATION OF SMOKE DETECTORS TO CAUSE ELEVATOR CONTROL TO RECALL CAR TO DESIGNATED FLOOR AND OPEN DOORS.

2. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE TYPE. PROVIDE ANY NECESSARY INTERFACE RELAYS BETWEEN 120V AND FIRE ALARM COMPONENTS. LOBBY, HOISTWAY, AND MACHINE DETECTORS SHALL BE ADDRESSABLE CONTROL MODULES TO PROVIDE CONTROL OUTPUTS TO ELEVATOR MACHINE.

3. HEAT DETECTOR ALARM TEMPERATURE TO BE MINIMUM 10°F LOWER THAN SPRINKLER HEAD, PER NFPA 72-2013. MOUNT HEAT DETECTOR WITHIN 2'-0" OF SPRINKLER HEAD.

4. REFER TO NFPA 72-2013 SECTION 21.4 FOR ELEVATOR SHUTDOWN SEQUENCE. ACTIVATION OF ANY HEAT DETECTOR TO ACTIVATE SHUNT TRIP TO POWER DOWN ELEVATOR EQUIPMENT. MONITOR 120V AND INITIATE FIRE ALARM TROUBLE IN EVENT OF LOSS OF SHUNT TRIP POWER.

5. COORDINATE ALL WORK WITH ELEVATOR INSPECTOR & SPRINKLER CONTRACTOR(S) TO MEET LIFE SAFETY AND ELEVATOR CODE REQUIREMENTS.

ELEMENTARY DIAGRAM

E1	ELEVATOR WIRING DIAGRAM
NTS	–

NOTE:
IT IS THE INTENT OF THIS DETAIL TO CENTER ALL DEVICES (ELEC & MECH) LOCATED ABOVE/BELOW/BESIDE EACH OTHER ALONG THE SAME CENTERLINE. PROVIDE MTG. BLOCKING/SUPPORTS AS REQ'D.

A1	MOUNTING HEIGHT DETAIL
NTS	–

LEGEND

ALL DEVICES, FIXTURES, ETC. SHALL BE NEW UNLESS DESIGNATED WITH THE FOLLOWING TAGS:

- E EXISTING TO REMAIN
- ER EXISTING RELOCATED
- NR NEW TO REPLACE EXISTING IN EXISTING LOCATION
- R EXISTING TO BE REMOVED
- RR REMOVE & RELOCATE EXISTING

- FACP — FIRE ALARM SYSTEM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- H — FIRE ALARM SYSTEM CEILING MOUNTED HEAT DETECTOR
- S — FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR
- S — FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR
- F — WALL MOUNTED FIRE ALARM SYSTEM MANUAL PULL STATION
- V — FIRE ALARM SYSTEM WALL MOUNTED VOICE/VISUAL DEVICE WITH VISUAL DEVICE CANDELA RATING AS NOTED
- F — FIRE ALARM SYSTEM WALL MOUNTED VISUAL DEVICE ONLY - CANDELA RATING AS NOTED FIRE ALARM SYSTEM
- DH — DOOR HOLD-OPEN DEVICE CONNECTION
- PS — FIRE ALARM SYSTEM/SPRINKLER SYSTEM PRESSURE SWITCH
- FS — FIRE ALARM SYSTEM/SPRINKLER SYSTEM FLOW SWITCH
- TS — FIRE ALARM SYSTEM/SPRINKLER SYSTEM TAMPER SWITCH

ABBREVIATIONS

A	AMPERES	GND	GROUND
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER, HEAT PUMP
AFG	ABOVE FINISHED GRADE	JB	JUNCTION BOX
ATS	AUTOMATIC TRANSFER SWITCH	KVA	KILO VOLT AMPS
BATT	BATTERY	KW	KILOWATT(S)
BHEC	BANGOR HYDRO ELECTRIC CO.	LTG	LIGHTING
BKR	BREAKER	MAX	MAXIMUM
BLDG	BUILDING	MIN	MINIMUM
CB	CIRCUIT BREAKER	N	NEW
CKT	CIRCUIT	OC	ON CENTER
CLG	CEILING	OS/OI	OWNER SUPPLIED, OWNER INSTALLED ITEM
CMP	CENTRAL MAINE POWER CO.	PAR	PARTIAL CIRCUIT
CT	CURRENT TRANSFORMER	PVC	POLYVINYL CHLORIDE
DN	DOWN	RECEP	RECEPTACLE
DWG	DRAWING	TEL	TELEPHONE
EMERG	EMERGENCY	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	UG	UNDERGROUND
EQUIP	EQUIPMENT	V	VOLTS
FA	FIRE ALARM	W	WATTS
FAA	FIRE ALARM ANNUNCIATOR	WG	WIRE GUARD
FACP	FIRE ALARM CONTROL PANEL	WM	WIREMOLD
FA-PE	FIRE ALARM SYSTEM POWER EXTENDER	WP	WEATHERPROOF
FIN	FINISH, FINISHED		
FLR	FLOOR		

GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE, AND IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING, BUT NOT LIMITED TO NFPA 70, 72, 90A, AND DIRECTION OF AUTHORITY HAVING JURISDICTION.
2. EXISTING AND NEW FIRE ALARM DEVICES ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR SHALL REVIEW THE BUILDING, AND FIELD VERIFY, TO DETERMINE EXACT MOUNTING LOCATIONS FOR FIRE ALARM DEVICES AND EQUIPMENT. CARE SHALL BE TAKEN TO AVOID EXISTING ELECTRICAL, MECHANICAL, SPRINKLER AND OTHER CEILING AND WALL MOUNTED DEVICES AND EQUIPMENT.
3. ALL PENETRATION THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A U.L. LISTED AND APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
4. TO THE EXTENT POSSIBLE, AREAS OF ANY KNOWN HAZARDOUS MATERIALS HAVE BEEN NOTED IN THESE DRAWINGS. CONTRACTOR SHALL AVOID THESE MATERIALS IF AT ALL POSSIBLE. IF IT IS NECESSARY TO DISTURB ANY HAZARDOUS MATERIALS, CONTRACTOR SHALL NOTIFY THE OWNER AND REQUEST DIRECTION BEFORE PROCEEDING.

A4	LEGEND, ABBREVIATIONS & GENERAL NOTES
NTS	--

CITY OF PORTLAND, MAINE — RESURGAM

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 7/29/2013

REV.	DESCRIPTION	DATE
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0	CONSTRUCTION DOCUMENTS	05.10.13

CONSTRUCTION DOCUMENTS
05.10.13

CURRENT ISSUE STATUS:

STATE OF MAINE — STEPHEN J. LAPLANT — No. 10272 — LICENSED PROFESSIONAL ENGINEER

05.10.13

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WWW.WBRCAE.COM
BANGOR, MAINE 207-947-4511
PORTLAND, MAINE 207-828-4511
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LUTHER BONNEY FIRE ALARM UPGRADES

PROJECT: PORTLAND, MAINE

FIRE ALARM DETAILS & LEGEND

SHEET TITLE:

WBRC CAD FILE: 3842.13 – FA501

PROJECT No. 3842.13

GRAPHIC SCALE: 0" 1"

SCALE: AS NOTED

PM: SJL

DRAWN BY: KRM

A/E OF RECORD: SJL

SHEET No. FA501

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5/10/2013 4:03 PM I:\3801-3900\384210 USM FIRE ALARM SYSTEM UPGRADES\2 DESIGN\DWGS\BLDG\LUTHER BONNEY 6P002\BONNEY LUTHER FIRE ALARM UPGRADES\SHEETS\3842.13-FA501 FIRE ALARM DETAILS & LEGEND.DWG KYLE.MAHAR