

DWG NO. | SHEET DESCRIPTION

DEVICE PLACEMENT PLAN-BLDG 147-FL

DEVICE PLACEMENT PLAN-BLDG 147-FI

DEVICE PLACEMENT PLAN-BLDG 149-FL1

DEVICE PLACEMENT PLAN-BLDG 149-FL2

DEVICE PLACEMENT PLAN-BLDG 151-FL

DEVICE PLACEMENT PLAN-BLDG 151-FL2

Seneral Information (FA-000 Series)

Floorplans (FA-100 Series)

Risers (FA-200 Series)

Panel Details (FA-500 Series)

Typical Details (FA-700 Series)

PANEL DETAILS

WIRING TYPICALS

CHARTS AND CALCULATIONS

Safer. Smarter. Tyco.™

DRAWING INDEX

CHOM LORTHFIELD GREEN

BUILDINGS 147/149/151

FIRE ALARM SYSTEM

FIRE ALARM SYMBOL LEGEND

4007es HYBRID FIRE ALARM CONTROL PANEL, RED,

4009 IDNET NAC EXTENDER PANEL, BEIGE, 120 VAC

COLOR TOUCHSCREEN LCD ANNUNCIATOR, RED

2-WIRE RELAY W/LED OUTPUT BASE

INDIVIDUAL ADDRESSABLE MODULE

MOUNT, RED, FIRE, CLEAR LENS

MOUNT, RED, FIRE, CLEAR LENS

END-OF-LINE RESISTOR 6.8K (EOL)

END-OF-LINE RESISTOR 10K (EOL)

ONVENTIONAL PHOTOELECTRIC SMOKE SENSOR WITH

MULTI-CANDELA HORN/STROBE, HIGH-CANDELA, WALL

4N | 4 11/16" SQ. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING | **FBO** | FURNISHED BY OTHERS

4P | 4 11/16" SO. BOX 2 1/8" DEEP W/ 1 1/2" EXT. RING | MFG | SUPPLIED BY MANUFACTURER

FOR ADDITIONAL BACK BOX OPTIONS, REFER TO THE XX-700 SERIES DRAWINGS OR PRODUCT DATA SHEETS AND

MULTI-TONE, MULTI-CANDELA HORN/STROBE, WALL

STROBE, WALL MOUNT, RED, FIRE, CLEAR LENS

SYMBOL DESCRIPTION

PANELS & ANNUNCIATORS

NAC

FAA

INITIATING DEVICES

MODULES & RELAYS

NOTIFICATION APPLIANCES

NOTIFICATION DEVICES

MISCELLANEOUS DEVICES

PS POWER SUPPLY

4B 4" SQ. BOX 1 1/2" DEEP W/ COVER

4E 4" SQ. BOX 2 1/8" DEEP W/ COVER

4M 4 11/16" SQ. BOX 2 1/8" DEEP

1A SINGLE GANG BOX 1 1/2" DEEP

1C | SINGLE GANG BOX 2 1/8" DEEP

FIRE ALARM WIRE LIST

CIRCUIT DESCRIPTION | CONSTRUCTION | GAUGE |

1D SINGLE GANG BOX 2 1/8" DEEP W/COVER

1B SINGLE GANG BOX 2" DEEP

INSTALLATION INSTRUCTIONS.

4C 4" SQ. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING

4F 4" SQ. BOX 2 1/8" DEEP W/ 1 1/2" EXT. RING

4G 4" SO. BOX 2 1/8" DEEP W/ SINGLE GANG COVER

4H 4" SQ. BOX 2 1/8" DEEP W/ TWO GANG COVER

4L 4" OCT. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING

4Q | 4" SQ. BOX 1 1/2" DEEP W/4098-9832 ADAPTER

4R 4" SQ. BOX 1 1/2" DEEP W/RACO 787 OR EQUIV.

4S 4" SQ. BOX 1 1/2" DEEP W/4098-9863 ADAPTER

BACKBOX CODES

CODE BOX SPECIFICATIONS

4D 4" SQ. BOX 2 1/8" DEEP

LEGENDS

Sales Representative

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NORTHFIELD GREEN 149 ALLEN AVENUE

PORTLAND, ME 04103-3734

Engineer Of Record

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7	
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PHONE: 207-842-6440 FAX: 207-842-6439 SERVICE: 207-842-6440

PORTLAND, ME 04101-2636

30 THOMAS DRIVE

WESTBROOK, ME 04092

MANCINI ELECTRIC 179 SHERIDAN ST

NORTHFIELD GREEN HOUSING PARTNERS L ONE CITY CENTER, 4TH FL

PORTLAND, ME 04101

DESIGN STATEMENT

PROJECT DIRECTORY

THIS PROJECT'S DESIGN IS BASED ON THE ENGINEERED PLANS AND SPECIFICATIONS PREPARED BY CWS ARCHITECTS, BENNETT ENGINEERING

ARCHITECTURAL PLANS DATED: 11/21/2017 MECHANICAL PLANS DATED: 11/21/2017 LECTRICAL PLANS DATED: PECIFICATIONS DATED:

DEVICE TAG LEGEND

HT = HEIGHT	
HVAC = HEATING VENTILATION & AIR CONDITIONING	
IMS = INFORMATION MANAGEMENT SYSTEM	PANEL DESIGNATOR:
MAX = MAXIMUM	• FA: = FACP (NON-NE
MIN = MINIMUM	
N/A = NOT APPLICABLE	• #: = NODE NUMBER
NAC = NOTIFICATION APPLIANCE CIRCUIT	• T#: = TRANSPONDER
NDU = NETWORK DISPLAY UNIT	#:T# = NODE:TRANSF
NEC = NATIONAL ELECTRIC CODE	N#: = NAC EXTENDER
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION	CIRCUIT DESIGNATOR:
NIC = NOT IN CONTRACT	• A#:# = FPS NUMBER:

NOTIFICATION

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 AI AJ

NIS = NOI IO SCALEPAP = PRE-ACTION PANEL SCC = STATUS COMMAND CENTER SLC = SIGNALING LINE CIRCUIT SMK = SMOKE SUPV = SUPERVISORY TAC = TRUEALERT ADDRESSABLE CONTROLLER

NPU = NETWORK PROCESSING UNIT

DGP = DATA GATHERING PANEL TRBL = TROUBLE EOL = END OF LINE TS = TAMPER SWITCH EPO = EMERGENCY POWER OFF TYP = TYPICAL FACP = FIRE ALARM CONTROL PANEL UON = UNLESS OTHERWISE NOTED FATC = FIRE ALARM TERMINAL CABINET VCC = VOICE COMMAND CENTER VT = VALVE TAMPER FBO = FURNISHED BY OTHERS FCC = FIRE COMMAND CENTER WF = WATERFLOW FAA = FIRE ALARM ANNUNCIATOR

SPRINKLER PROTECTION

THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DISCONNECTED OR TAKEN OUT OF SERVICE WITHOUT WRITTEN PERMISSION FROM THE OWNER. IT IS THE

UNKNOWN

MODIFY EXISTING FIRE ALARM SYSTEM: PROVIDE NEW DEVICES, RELOCATE AND DEMO EXISTING DEVICES AS SHOWN ON DRAWINGS.

CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER THE TIMING OF ANY EXISTING FIRE ALARM SYSTEM DEMOLITION WORK.

W = WATTAGE W/ = WITH

W/O = WITHOUT

ER NUMBER ISPONDER NUMBER ER NUMBER A#:# = EPS NUMBER:EPS CHANNEL NUMBER D# = DOOR HOLDER CIRCUIT NUMBER F# = FIRE PHONE CIRCUIT H# = AUDIBLE (HORN) CIRCUIT NUMBER M# = IDNET LOOP NUMBER P# = POWER CIRCUIT NUMBER • S# = SPEAKER CIRCUIT NUMBER V# = VISUAL CIRCUIT NUMBER • Z# = ZONE NUMBER - DEVICE NUMBER — BRANCH / ISOLATED LOOP DESIGNATOR: (L#) = IDNET ISOLATED LOOP NUMBER (#) = IDNAC BRANCH NUMBER

• (E#:#) = EPR* NUMBER:BRANCH NUMBER 1:T2:A2:1-1(E1:1) *EPR = ENHANCED POWER REPEATER

FIRE SAFETY CONTROL

SYSTEM SEQUENCE OF OPERATIONS

APPLICABLE CODES & STANDARDS

LOCAL JURISDICTION AUTHORITY FOR MORE DETAILS.

re Prevention Code (NFPA 1), 2006 Edition

National Electric Code (NFPA 70), 2011 Edition

Elevator Code ASME A.17.1, 2013

OCCUPANCY TYPE(S):

R-2 Residential Group

SCOPE OF WORK

ABBREVIATIONS LEGEND

E = EXISTING TO REMAIN

RL = RELOCATED DEVICE

WP = WEATHERPROOF

ALM = ALARM

ANN = ANNUNCIATOR

DET = DETECTOR

CD = CANDELA RATING

XP = EXPLOSION PROOF

AFF = ABOVE FINISHED FLOOR

RC = EXISTING TO REMOVE AND COVER

RD = EXISTING DEVICE TO BE RELOCATED

AHJ = AUTHORITY HAVING JURISDICTION

BMS = BUILDING MANAGEMENT SYSTEM

CBC = CALIFORNIA BUILDING CODE

FTR = FIRE ALARM TRANSPONDER

FSD = FIRE SMOKE DAMPER

RR = REMOVE EXISTING & REPLACE W/NEW

ALL NEW WIRING TO BE CLASS B.

BOX WIRE CODE TYPE

MODEL

4007-9101

4009-9201

4606-9202

4098-9601 HEAD

4098-9788 BASE

4090-9001

4906-9139

4906-9137

4906-9101

4081-9004

4081-9008

AL1024ULM

BRAND

SIMPLEX

SIMPLEX

SIMPLEX

SIMPLEX

SIMPLEX

SIMPLEX

SIMPLEX

SIMPLEX

SIMPLEX

ALTRONIX

1E SINGLE GANG BOX 2 1/2" DEEP

1G SINGLE GANG BOX 2 3/4" DEEP 1H SINGLE GANG BOX 3 1/2" DEEP

2A DOUBLE GANG BOX 2" DEEP

2B TWO GANG BOX 2 1/2" DEEP

2C TWO GANG BOX 2 3/4" DEEP

6A 6 SINGLE GANG BOXES 3 1/2" DEEP

MBD | MOUNTS IN BOX BEHIND DETECTOR

DS REFER TO PRODUCT DATASHEET

TRM | 3.5" WIDE SNAP TRACK W/MOUNTING SCREWS

ACCEPTABLE CABLE TYPES

5A 5 GANG BOX 2 1/2" DEEP

6C 6 GANG BOX 2 1/2" DEEP

6D | 6 GANG BOX 3 1/2" DEEP

MDW MOUNTS TO DUCTWORK

NR NO BACKBOX REQUIRED

CIRCUIT PROPERTIES

6B 6 GANG BOX

WM WALL MOUNT

DT DESK TOP MOUNT

1F SINGLE GANG BOX 2 1/2" DEEP W/COVER

CODE BOX SPECIFICATIONS

URISDICTIONS WITHIN THE STATE MAY HAVE AMENDMENTS TO THE STATE ADOPTED CODE. CHECK WITH THE

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ı	1 SMOKE SENSOR/DETECTOR		•					•	•	•		•	•										•											•	1
ı	2 SMOKE/HEAT SENSOR W/ SOUNDER BASE			•	•			•				•		•																					2
ı	3 MANUAL PULL STATION	•	•					•	•	•		•	•														i							•	3
ı	4 FIRE ALARM AC POWER FAILURE					•	•					•			•								•											•	4
ı	5 OPEN CIRCUIT OR GROUND FAULT					•	•					•			•												i							•	5
ı	6 FIRE ALARM SYSTEM LOW BATTERY					•	•					•			•												i							•	6
ı	7 CLASS B NOTIFICATION CIRCUIT (NAC) - SHORT					•	•					•			•												l							•	7
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CTRL. UNIT ANNUNCIATION

GREEN 47/149/ NETWORK)

NORTHFI BUILDING

DRAWN BY: PRANESH/TT SUE DATE: 2/2/18 147428511

PROJECT #: 147:604471601 SimplexGrinnell© 2018

FIRE ALARM SYSTEM

COVER SHEET

FA-000

2	20.	ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
	21.	120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
Arc	22.	ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING. MAINTAIN MAXIMUM CONDUIT FILL RATIO AS PER APPLICABLE ELECTRICAL CODES REQUIREMENTS.
	23.	EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY; HOWEVER, ANY EXISTING CONDUIT
\approx		CANNATE COMPLETE MEET CURRENT CTANDARDS AND CORES TWO 16TH MAYES NO CTATEMENTS MURITIFIED OR MERRAL AS TO THE CO

GENERAL NOTES THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS IS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS. 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 TYCO JCI IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE. 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

A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION. 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. UPDATE THE AS-BUILT DRAWING SET DAILY WITH JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO TYCO JCI NO LATER THAN 7 DAYS AFTER

THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMANLIKE MANNER.

DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED TYCO JCI TECHNICAL REPRESENTATIVE. 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.

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. 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 APPLICABLE ELECTRICAL

ALL WIRING SHALL BE INSTALLED ACCORDING TO APPLICABLE ELECTRICAL CODES. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODE SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.

FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP. FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN

FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE APPLICABLE ELECTRICAL

ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.

CODES. REFER TO 'APPLICABLE CODES & STANDARDS' FOR SPECIFIC CODE REFERENCES.

ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES. TYCO JCI MAKES NO STATEMENTS WRITTEN OR VERBAL AS TO THE CONDITION OF EXISTING CONDUITS.

60pf/ft. MAX CAPACITANCE; 3 B RUI+ COMMUNICATION UTP SOLID 18 AWG twists/ft. RECOMMENDED UTP SOLID 18 AWG POWER 2 COND. SOLID 14 AWG VISUAL SIGNAL 2 COND. SOLID 14 AWG ZONE (IDC) 2 COND. SOLID 16 AWG CONDUIT SIZE MAX CONDUCTOR AREA CONDUIT SIZE MAX CONDUCTOR AREA NOTES 0.12 SQ INCH * 0.60 SQ INCH * 1-1/4" *40% FILL PER N.E.C 0.21 SQ INCH * 0.82 SQ INCH * 1-1/2" SUBSCRIPT "u": UNSHIELDED CABLES MIXED WITH 0.34 SQ INCH * 1.34 SQ INCH * SHIELDED CABLES OF SAME CIRCUIT DESIGNATION. **OUTDOOR AERIAL CABLE REQUIRES MESSENGER ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM

INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE