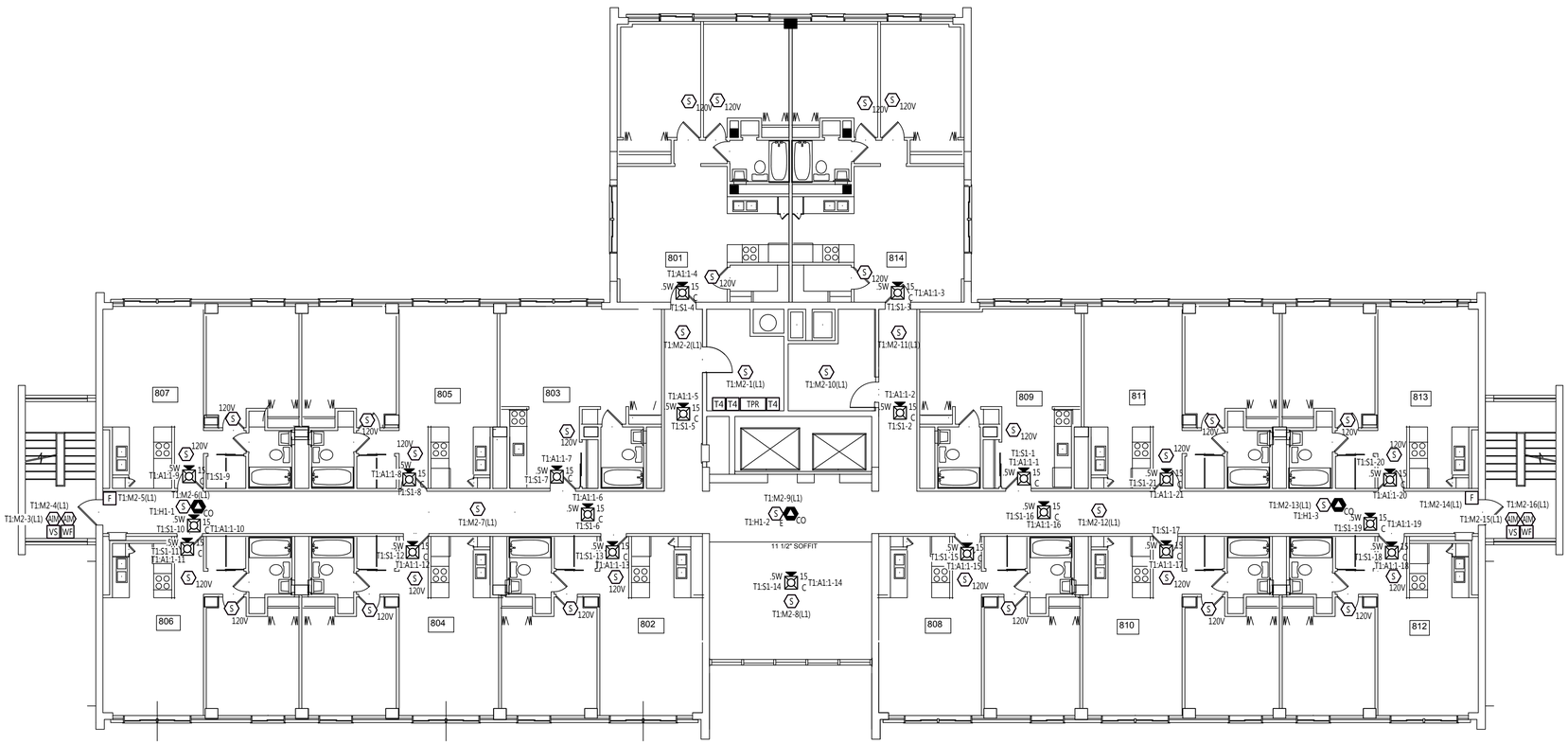


## EIGHTH FLOOR DEVICE PLACEMENT PLAN

**SCALE: 1/8" = 1'-0"**

**GENERAL NOTES:**

1. ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
2. TAP ALL SPEAKERS AT 0.5W UNLESS NOTED OTHERWISE.
3. SET ALL SPEAKER VOLTAGE JUMPERS TO THE 70.7V SETTING.
4. ALL NOTIFICATION APPLIANCE CANDELA INTENSITY PLUGS SHALL RETAIN THEIR FACTORY SETTING OF "FACP" UNLESS OTHERWISE DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
5. DO NOT CHANGE DEFAULT APPLIANCE CONFIGURATION SWITCH SETTINGS ON ADDRESSABLE A/V DEVICES (CFIG1). REFER TO DEVICE DETAILS AND INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

## FIRE ALARM SYMBOL LEGEND

| SYMBOL | DESCRIPTION | BRAND | MODEL | BOX CODE | WIRE TYPE |
|---|---|---|---|---|---|
| ***PANELS & ANNUNCIATORS*** | | | | | |
| FACP | 4100ES FIRE ALARM CONTROL PANEL, 120 VAC | SIMPLEX | 4100-9311 | MFG | |
| TPR | 4100ES TRANSPONDER FIRE ALARM LOCAL MODE TRANSPONDER PANEL, 120 VAC | SIMPLEX | 4100-9601 | MFG | |
| FAA | SERIAL LCD ANNUCIATOR | SIMPLEX | 4603-9101 | 6D | B P |
| BATT | BATTERY CABINET W/ 75AH BATTERY SET | SIMPLEX | 2081-9280 PW-PS12750U | MFG | |
| ***INITIATING DEVICES*** | | | | | |
| F | SINGLE ACTION MANUAL PULL STATION | SIMPLEX | 4099-9004 | 4G 1E | M |
| S 120V | LOCAL 120 VOLT SMOKE DETECTOR | | SUPPLIED BY OTHERS | | |
| S | ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR WITH STANDARD BASE | SIMPLEX | 4098-9714 HEAD 4098-9792 BASE | 4K 4R | M |
| S CO | ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR WITH CO SENSOR/SOUNDER BASE | SIMPLEX | 4098-9714 HEAD 4098-9771 BASE | 4K 4Q | M, H |
| | HEAT SENSOR WITH STANDARD BASE | SIMPLEX | 4098-9733 HEAD 4098-9792 BASE | 4A 1B | M |
| ***MODULES & RELAYS*** | | | | | |
| AIM | INDIVIDUAL ADDRESSABLE MODULE | SIMPLEX | 4090-9001 | 1F | M Z |
| AIM | RELAY IAM | SIMPLEX | 4090-9002 | 4H | M R |
| AIM 2 | RELAY IDNET 2 IAM W/T SENSE | SIMPLEX | 4090-9118 | 4H | M R |
| R | ENCAPSULATED RELAY PAM-1, SPDT W/ LED, APOLLO AMERICA INC PAM-1 | SIMPLEX | 2088-9021 | 1D | R |
| ***NOTIFICATION DEVICES*** | | | | | |
| # | ADDRESSABLE STROBE, CEILING MOUNT, WHITE, FIRE, CLEAR LENS | SIMPLEX | 4906-9204 | HB | A |
| #W # | ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, FIRE, CLEAR LENS | SIMPLEX | 4906-9256 | 4C | S A |
| #W S | SPEAKER ONLY, WALL MOUNT | SIMPLEX | 4902-9717 4905-9942 SKIRT | 4C | S |
| T4 | TEMPORAL 4 MODULE | SIMPLEX | 4905-9835 | 4E | H |
| ***MISCELLANEOUS DEVICES*** | | | | | |
| K | KNOX BOX WITH TAMPER SWITCH | KNOX | 3200 SERIES | MFG | Z |
| VS | TAMPER SWITCH | BY OTHERS | BY OTHERS | FBO | Z |
| WF | WATERFLOW SWITCH | BY OTHERS | BY OTHERS | FBO | Z |
| DH | DOOR HOLDER | BY OTHERS | BY OTHERS | FBO | R |
| 6.8K | END-OF-LINE RESISTOR 6.8K (EOL) | SIMPLEX | 4081-9004 | | |

***BACKBOX CODES***

| CODE | BOX SPECIFICATIONS | CODE | BOX SPECIFICATIONS |
|---|---|---|---|
| **4A** | 4" SQ. BOX 1 1/2" DEEP | **1E** | SINGLE GANG BOX 2 1/2" DEEP |
| **4B** | 4" SQ. BOX 1 1/2" DEEP W/ COVER | **1F** | SINGLE GANG BOX 2 1/2" DEEP W/COVER |
| **4C** | 4" SQ. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING | **1G** | SINGLE GANG BOX 2 3/4" DEEP |
| **4D** | 4" SQ. BOX 2 1/8" DEEP | **1H** | SINGLE GANG BOX 3 1/2" DEEP |
| **4E** | 4" SQ. BOX 2 1/8" DEEP W/ COVER | **2A** | DOUBLE GANG BOX 2" DEEP |
| **4F** | 4" SQ. BOX 2 1/8" DEEP W/ 1 1/2" EXT. RING | **2B** | TWO GANG BOX 2 1/2" DEEP |
| **4G** | 4" SQ. BOX 2 1/8" DEEP W/ SINGLE GANG COVER | **2C** | TWO GANG BOX 2 3/4" DEEP |
| **4H** | 4" SQ. BOX 2 1/8" DEEP W/ TWO GANG COVER | **5A** | 5 GANG BOX 2 1/2" DEEP |
| **4J** | 4" SQ. BOX 2 1/2" DEEP | **6A** | 6 SINGLE GANG BOXES 3 1/2" DEEP |
| **4K** | 4" OCT. BOX 1 1/2" DEEP | **6B** | 6 GANG BOX |
| **4L** | 4" OCT. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING | **6C** | 6 GANG BOX 2 1/2" DEEP |
| **4M** | 4 11/16" SQ. BOX 2 1/8" DEEP | **6D** | 6 GANG BOX 3 1/2" DEEP |
| **4N** | 4 11/16" SQ. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING | **FBO** | FURNISHED BY OTHERS |
| **4P** | 4 11/16" SQ. BOX 2 1/8" DEEP W/ 1 1/2" EXT. RING | **MFG** | SUPPLIED BY MANUFACTURER |
| **4Q** | 4" SQ. BOX 1 1/2" DEEP W/4098-9832 ADAPTER | **MDW** | MOUNTS TO DUCTWORK |
| **4R** | 4" SQ. BOX 1 1/2" DEEP W/RACO 787 OR EQUIV. | **MBD** | MOUNTS IN BOX BEHIND DETECTOR |
| **4S** | 4" SQ. BOX 1 1/2" DEEP W/4098-9863 ADAPTER | **WM** | WALL MOUNT |
| **1A** | SINGLE GANG BOX 1 1/2" DEEP | **DT** | DESK TOP MOUNT |
| **1B** | SINGLE GANG BOX 2" DEEP | **DS** | REFER TO PRODUCT DATASHEET |
| **1C** | SINGLE GANG BOX 2 1/8" DEEP | **NR** | NO BACKBOX REQUIRED |
| **1D** | SINGLE GANG BOX 2 1/8" DEEP W/COVER | **TRM** | 3.5" WIDE SNAP TRACK W/MOUNTING SCREWS |

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

## FIRE ALARM WIRE LIST

| | CIRCUIT DESCRIPTION | CONSTRUCTION | GAUGE | CIRCUIT PROPERTIES | ACCEPTABLE CABLE TYPES: FPLR | FPLP | THHN | TFFN | OUTDOOR | CL |
|---|---|---|---|---|---|---|---|---|---|---|
| A | ADDRESSABLE NOTIFICATION | UTP SOLID | 14 AWG | 60pf/ft. MAX CAPACITANCE. 3 twists/ft. RECOMMENDED | X | X | | | | |
| B | RUI/N2 COMMUNICATION | TSP SOLID | 16 AWG | 60pf/ft. MAX CAPACITANCE. 3 twists/ft. RECOMMENDED | X | X | | | | |
| D | DOOR HOLDER | TP SOLID | 14 AWG | | X | X | X | | | |
| H | AUDIBLE CIRCUIT | 2 COND. SOLID | 14 AWG | | X | X | X | | | |
| K | REMOTE TEST SWITCH/LED | (2) 2 COND. SOLID | 16 AWG | | X | X | X | | | |
| M | IDNET | UTP SOLID | 16 AWG | | X | X | | | | |
| P | POWER | 2 COND. SOLID | 16 AWG | | X | X | X | | | |
| R | RELAY | 2 COND. SOLID | 14 AWG | | X | X | X | | | |
| S | AUDIO | UTP SOLID | 16 AWG | 30pf/ft. MAX CAPACITANCE RECOMMENDED | X | X | | | | |
| Sd | DIGITAL AUDIO RISER | UTP SOLID | 16 AWG | LOW CAPACITANCE CABLE MAY BE REQUIRED | X | X | | | | |
| Z | ZONE (IDC) | 2 COND. SOLID | 16 AWG | | X | X | X | | | |

| CONDUIT SIZE | MAX CONDUCTOR AREA | CONDUIT SIZE | MAX CONDUCTOR AREA | NOTES |
|---|---|---|---|---|
| 1/2" | 0.12 SQ INCH * | 1-1/4" | 0.60 SQ INCH * | *40% FILL PER N.E.C. |
| 3/4" | 0.21 SQ INCH * | 1-1/2" | 0.82 SQ INCH * | SUBSCRIPT "u": UNSHIELDED CABLES MIXED WITH |
| 1" | 0.34 SQ INCH * | 2" | 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 UPON REQUEST.

SCALE:1/8" = 1'-0" IN FEET
0 4' 8' 16'


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# FRANKLIN TOWERS

FRANKLIN TOWERS
211 CUMBERLAND AVE
PORTLAND, ME 04101

ISSUE LOG

| MARK | DATE | DESCRIPTION | CHK | CAD |
|---|---|---|---|---|

Revisions shown with A symbol

| | |
|---|---|
| DRAWN BY: | J.DELACRUZ |
| CHECKED BY: | A.ONEAL |
| ISSUE DATE: | 1/19/18 |
| JOB #: | |
| PROJECT #: | 147.604032801 |


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SYSTEM:
**FIRE ALARM SYSTEM**

SHEET:
**EIGHTH FLOOR DEVICE PLACEMENT PLAN**

**FA-108**


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