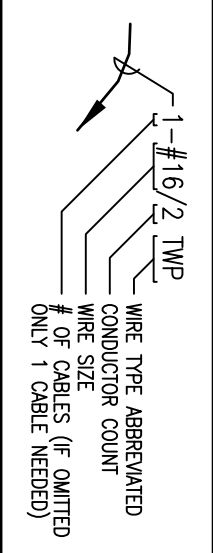


ADDRESSABLE SMOKE DETECTOR WIRING DETAIL
SCHEMATIC: NO SCALE

TYPICAL 2 WIRE STROBE WIRING DETAIL
SCHEMATIC: NO SCALE

FIRE ALARM SYMBOL LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------------|-------------------------------|----------------|
| FA37 | FIRE ALARM CONTROL PANEL | WALL-TOP @ 66" |
| FA35 | FIRE ALARM POWER SUPPLY | FIELD VERIFY |
| FA34 | FIRE SYSTEM ANNUNCIATOR | WALL-TOP @ 66" |
| FA30 | FIRE/SMOKE DAMPER | BY OTHERS |
| FA29 | SMOKE DETECTOR | CEILING |
| FA28 | DUCT SMOKE DETECTOR | BY OTHERS |
| FA27 | HEAT DETECTOR | CEILING |
| FA26 | ADDRESSABLE CONTROL MODULE | FIELD VERIFY |
| FA25 | ADDRESSABLE MONITOR MODULE | FIELD VERIFY |
| FA24 | MANUAL PULL STATION | WALL @ 48" |
| FA23 | CONTROL RELAY (MULTI-VOLTAGE) | FIELD VERIFY |
| FA22 | ADDRESSABLE RELAY MODULE | FIELD VERIFY |
| FA21 | KNOX BOX | FIELD VERIFY |
| FA20 | WATER FLOW SWITCH | BY OTHERS |
| FA19 | VALVE TAMPER SWITCH | BY OTHERS |
| FA18 | BELL | BY OTHERS |
| FA17 | CEILING MOUNT STROBE | FIELD VERIFY |
| FA16 | CEILING MOUNT HORN / STROBE | FIELD VERIFY |
| FA15 | HORN | WALL @ 10'-0" |
| FA14 | STROBE | WALL @ 8'-96" |
| FA13 | HORN / STROBE | WALL @ 8'-96" |
| ABBREVIATION | DESCRIPTION | |
| E | EXISTING | |
| G | WITH GUARD | |
| P | PENDENT MOUNT | |
| R | RESIDENTIAL (110V) | |
| S | SONDOR BASE | |
| WP | WEATHER PROOF | |
| EOL | END OF LINE RESISTOR | |
| ELR | END OF LINE RELAY | |
| AWG | AMERICAN WIRE GAUGE | |
| WSP | WASTED SHIELDED PAIR | |
| FWP | FIRE POWER LIMITED PLENUM | |
| FPLR | FIRE POWER LIMITED RISER | |



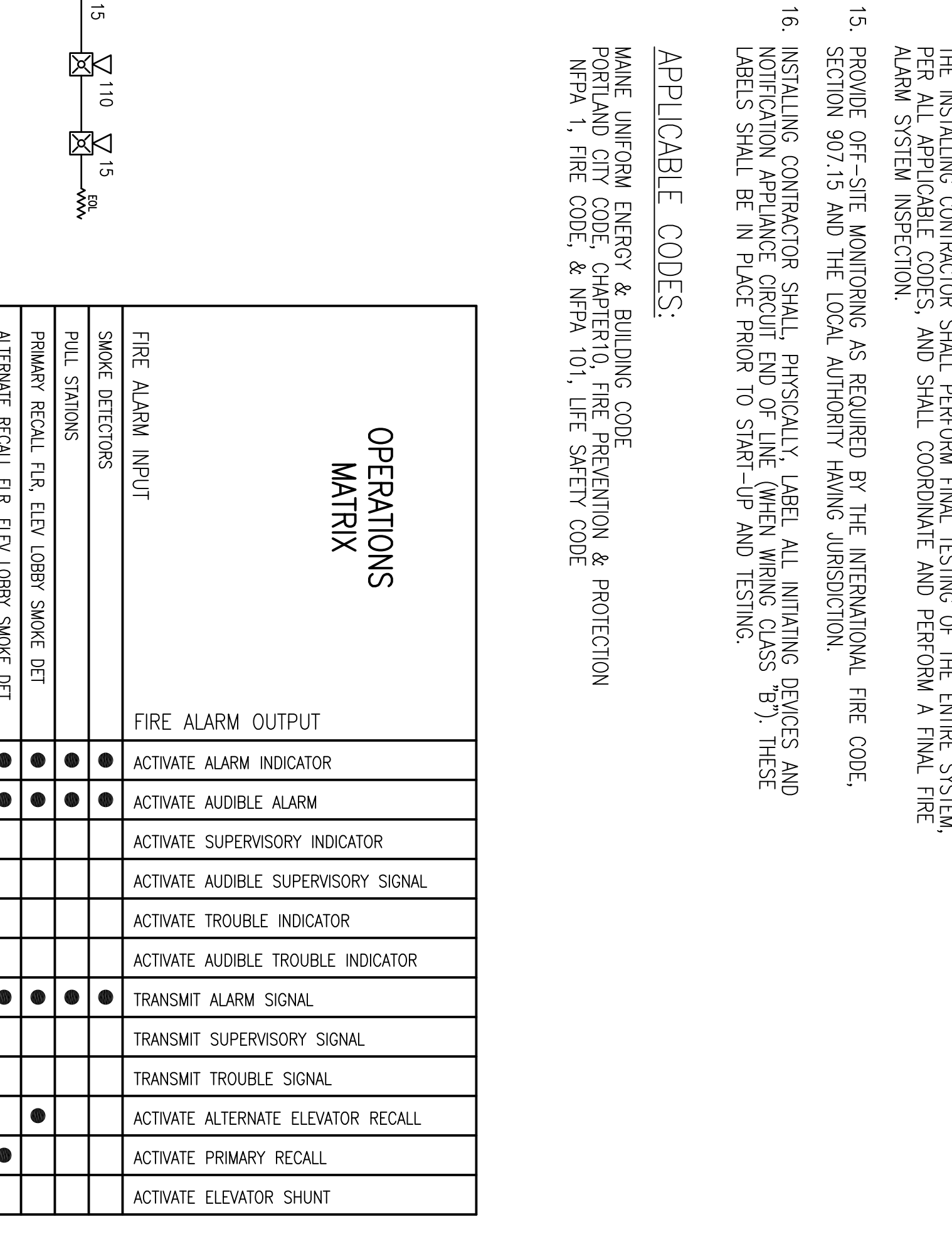
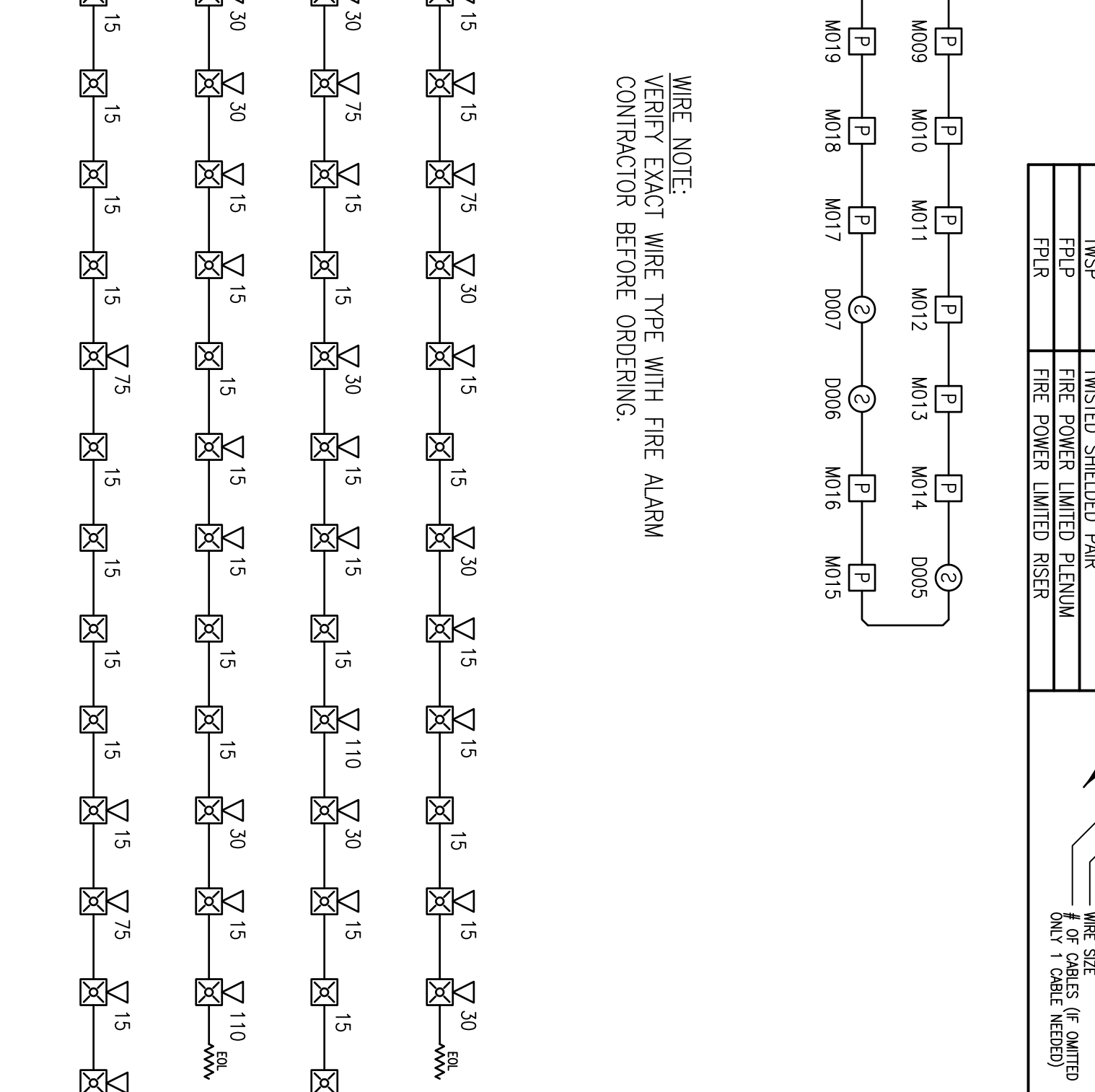
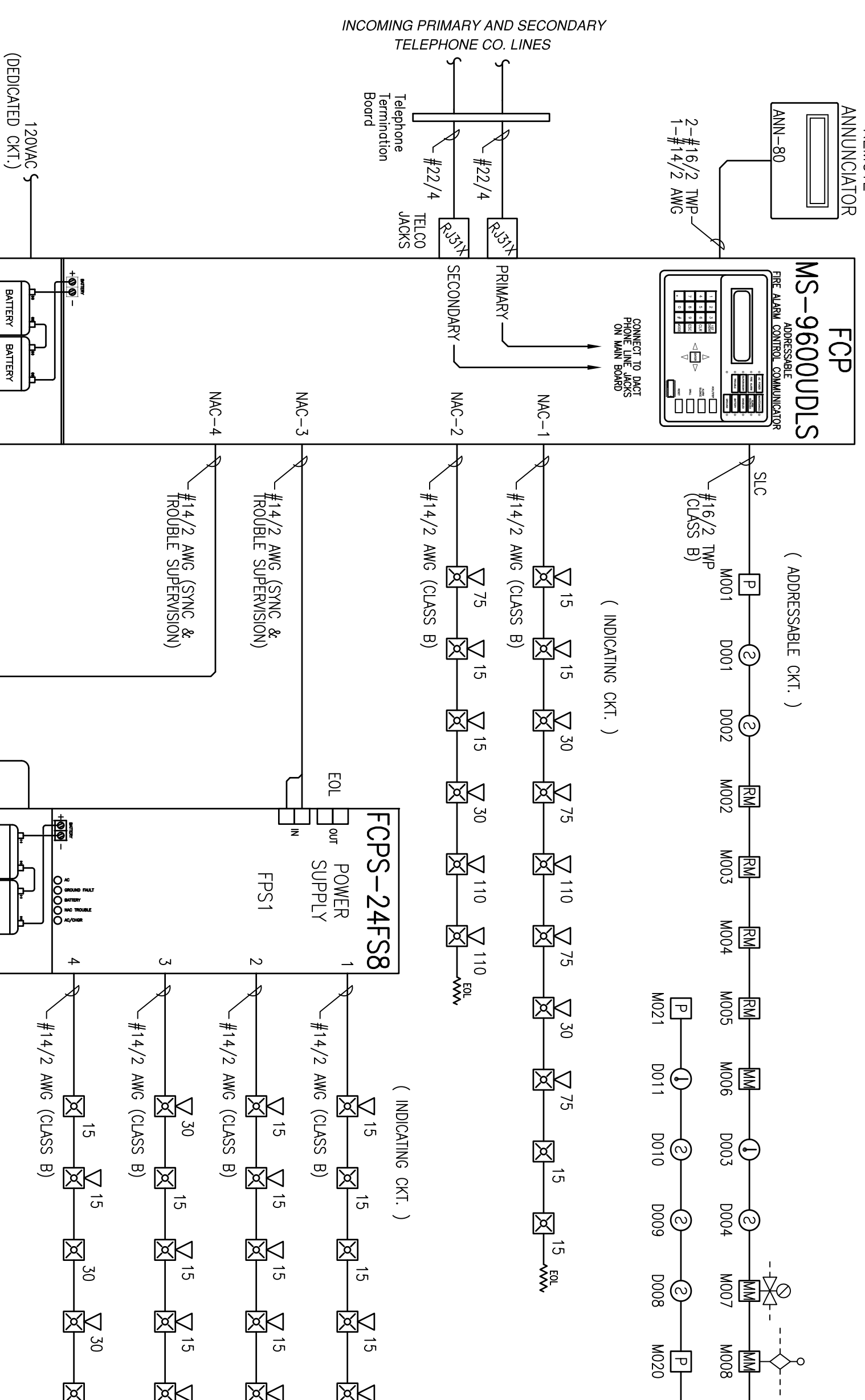
WIRE NOTE:
VERIFY EXACT WIRE TYPE WITH FIRE ALARM CONTRACTOR BEFORE ORDERING.

APPLICABLE CODES:
MAINE UNIFORM ENERGY & BUILDING CODE
PORTLAND CITY CODE, CHAPTER 10, FIRE PREVENTION & PROTECTION
NFPA 1, FIRE CODE, & NFPA 101, LIFE SAFETY CODE

GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- WIRING DEPICTED ON THESE PLANS IS SCHEMATIC - ACTUAL WIRE LOCATIONS MAY DIFFER FROM THESE PLANS. WIRING SHALL BE PERFORMED AS ACTUAL BUILDING CONSTRUCTION CONDITIONS ALLOW AND TO MINIMIZE PENETRATIONS THROUGH AREA SEPARATION WALLS AND FIRE WALLS. THE USE OF A RACEWAY IS PERMITTED AS LONG AS NO 110V OR HIGHER VOLTAGE CABLES ARE IN THE SAME RACEWAY.
- FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
- POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS.
- WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
- WHEN UTILIZING SHIELDED CABLE THE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
- ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILING AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
- PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS.
- PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM, PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
- PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- INSTALLING CONTRACTOR SHALL, PHYSICALLY, LABEL ALL INITIATING DEVICES AND NOTIFICATION APPLIANCE CIRCUIT END OF LINE (WHEN WIRING CLASS "B"). THESE LABELS SHALL BE IN PLACE PRIOR TO START-UP AND TESTING.

RESERVED FOR CITY STAMP



OPERATIONS MATRIX

| | FIRE ALARM INPUT | FIRE ALARM OUTPUT | ACTIVATE ALARM INDICATOR | ACTIVATE AUDIBLE ALARM | ACTIVATE SUPERVISORY INDICATOR | ACTIVATE AUDIBLE SUPERVISORY SIGNAL | ACTIVATE TROUBLE INDICATOR | ACTIVATE AUDIBLE TROUBLE INDICATOR | TRANSMIT ALARM SIGNAL | TRANSMIT SUPERVISORY SIGNAL | TRANSMIT TROUBLE SIGNAL | ACTIVATE ALTERNATE ELEVATOR RECALL | ACTIVATE PRIMARY RECALL | ACTIVATE ELEVATOR SHUNT |
|--|------------------|-------------------|--------------------------|------------------------|--------------------------------|-------------------------------------|----------------------------|------------------------------------|-----------------------|-----------------------------|-------------------------|------------------------------------|-------------------------|-------------------------|
| SMOKE DETECTORS | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| PULL STATIONS | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| PRIMARY RECALL FIR, ELEV LOBBY SMOKE DET | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ALTERNATE RECALL FIR, ELEV LOBBY SMOKE DET | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TOP OF ELEV SHAFT SMOKE DET | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ELEVATOR EQUIPMENT ROOM SMOKE DET | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ELEVATOR EQUIPMENT ROOM HEAT DET | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TOP OF ELEV SHAFT HEAT DET | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| WATERFLOW SWITCHES | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| VALVE TAMPER SWITCHES | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| FIRE ALARM AC POWER FAIL | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| FIRE ALARM LOW BATTERY | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GROUND FAULT | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| OPEN CIRCUIT | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| WATER SHORT CIRCUIT | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| LOSS OF AC TO BUILDING | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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PORTLAND, MAINE 04101

DETAILS, LEGEND, MATRIX, NOTES, RISER DIAGRAM

CUNNINGHAM
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| REVISION | DESCRIPTION | DATE |
|----------|--------------------------------|-----------|
| 0 | ISSUED FOR REVIEW & APPROVAL | 9/26/2014 |
| 1 | REMOVED 4TH FLR, CLIENT REVIEW | 10/2/2014 |

DESIGNER: JPB UNICAD JOB #14555
CHECKED: WYANNE B. HAWES NICTE IV 90496
DATE: 9/26/2014
SCALE: NONE
FA-1

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