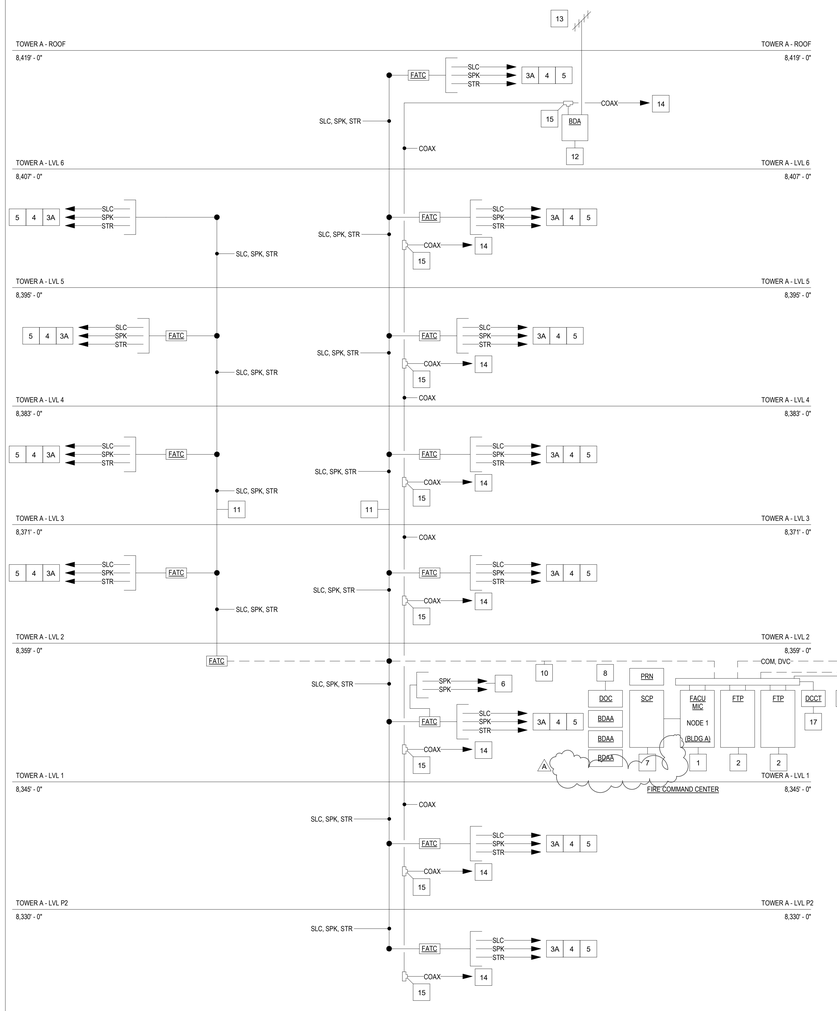
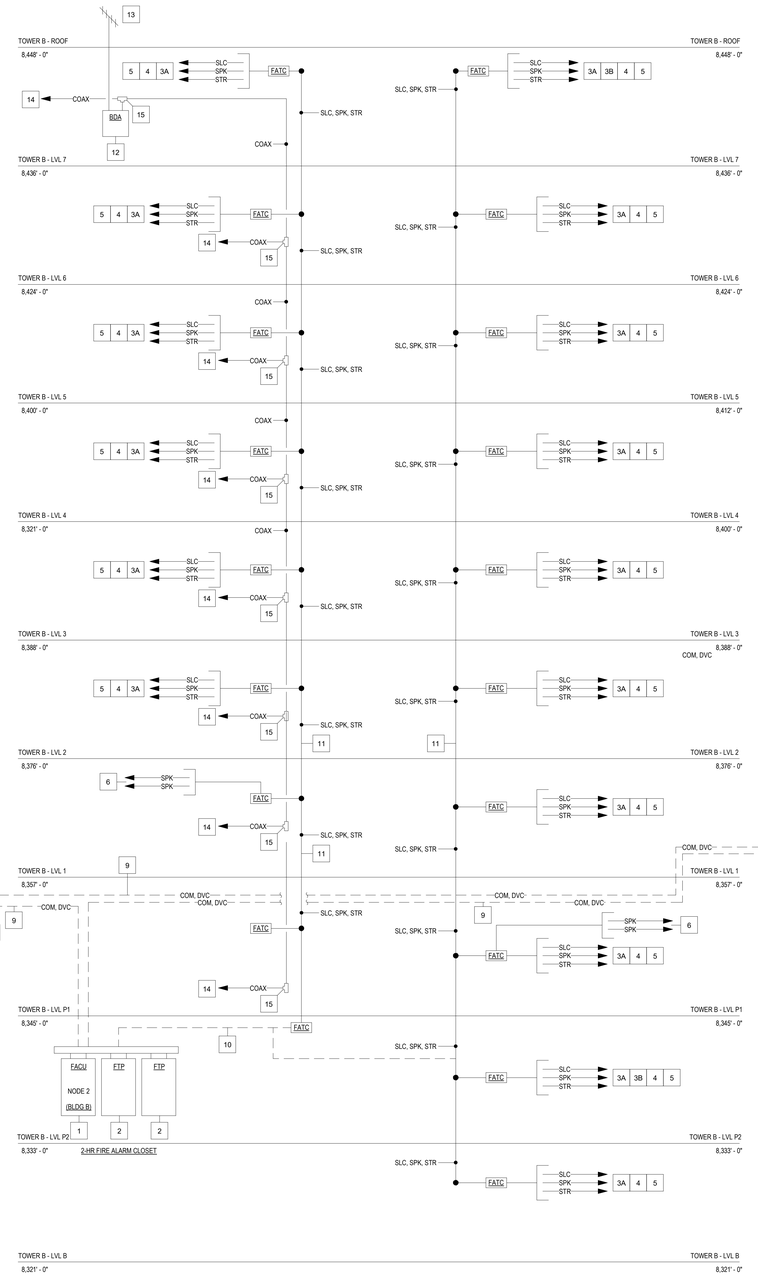


TOWER A



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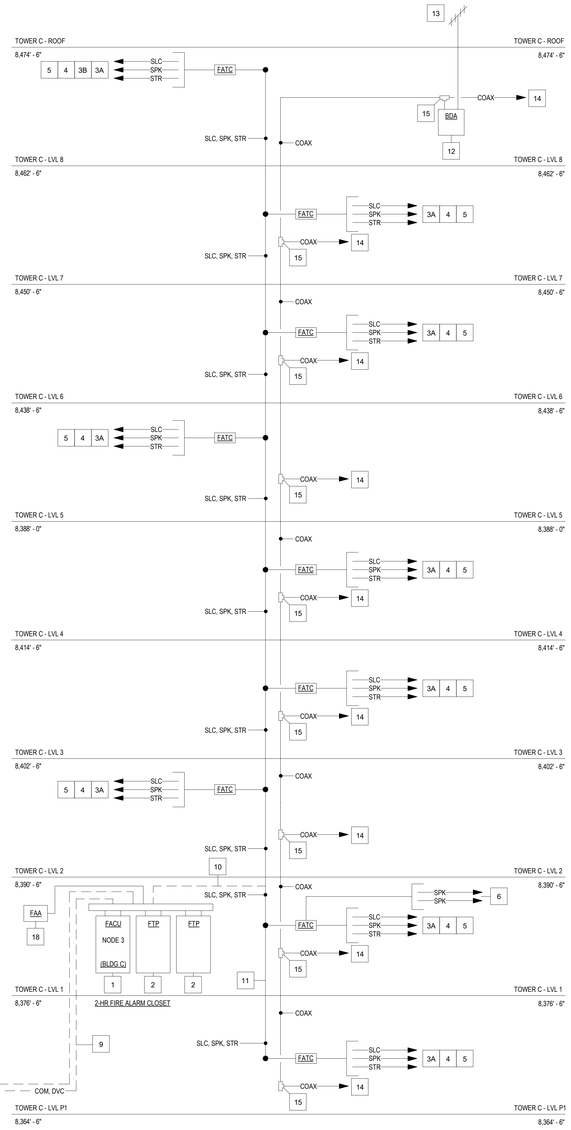

TOWER C

GENERAL NOTES:

1. THE RISER DIAGRAM IS CONCEPTUAL IN NATURE. IT DOES NOT INTEND TO REPRESENT ACTUAL WIRING AND RACEWAY INSTALLATION. ALL CONDUCTORS AND WIRING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, NFPA 72 AND NFPA 70.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE QUANTITY OF NOTIFICATION APPLIANCE CIRCUITS, POWER SUPPLIES, AMPLIFIERS AND BATTERIES BASED UPON CALCULATIONS OUTLINES IN THE TECHNICAL SPECIFICATIONS AND NFPA 72.
3. PROVIDE A MINIMUM OF TWO (2) SPEAKER & STROBE CIRCUITS PER FLOOR, AND ADDITIONAL AS REQUIRED BASED UPON CALCULATIONS.
4. A SIGNALING LINE CIRCUIT SHALL PROTECT FIVE (5) FLOORS MAXIMUM. PROVIDE A DEDICATED SIGNALING LINE CIRCUIT FOR CONTROL / SUPERVISION OF STAIR PRESSURIZATION EQUIPMENT IN TOWERS B / C LOCATED ON THE ROOF(S) AND FOR TOWER B EQUIPMENT LOCATED ON P2 LEVEL.

EMERGENCY RESPONDER RADIO ENHANCEMENT SYSTEM NOTES:

1. EACH TOWER IS TO BE PROVIDED WITH AN EMERGENCY RESPONDER RADIO ENHANCEMENT SYSTEM INCLUSIVE OF BI-DIRECTIONAL AMPLIFIER, BATTERIES, ANNUNCIATOR, EXTERIOR DONOR ANTENNA, COAXIAL CABLING (STANDARD AND RADIATING) AND INTERIOR REPEATERS.

LEVEL 3 SURVIVABILITY NOTES:

THE FOLLOWING PATHWAYS SHALL BE INSTALLED VIA 2-HR CIRCUIT INTEGRITY CABLE IN EMT:

1. PATHWAYS FROM CONTROL EQUIPMENT ORIGINATING IN 2-HR FIRE ALARM CLOSETS / FIRE COMMAND CENTER TO THE DESIGNATED 2-HR FIRE RATED SHAFT ON FLOOR PLANS.
2. STAIR SPEAKER CIRCUITS FROM CONTROL EQUIPMENT TO THE ASSOCIATED STAIR.
3. DATA / VOICE NETWORK BETWEEN TOWERS A, B AND C NODES.
4. SIGNALING LINE CIRCUITS ASSOCIATED WITH STAIR PRESSURIZATION CONTROL / SUPERVISION (TOWERS B AND C ONLY).
5. FROM BDA TO 2-HR DESIGNATED SHAFTS ON FLOOR PLANS (2-HR UL LISTED COAXIAL CABLING).

CIRCUIT LEGEND:

XXX

XXX: PATHWAY TYPE

NON-RATED PATHWAY

2-HR CIRCUIT INTEGRITY CABLE IN EMT

CIRCUIT PATHWAY TYPES:

24V - 24VDC AUXILIARY POWER
SLC - SIGNALING LINE CIRCUIT
SPK - SPEAKER CIRCUIT
STR - STROBE CIRCUIT
COM - NETWORK / DATA COMMUNICATION (BETWEEN FACUS AND FAAS)
DVC - DIGITAL VOICE COMMUNICATION (BETWEEN DIGITAL AMPLIFIERS)
COAX - COAXIAL CABLE

KEYNOTES:

1. FIRE ALARM / EMERGENCY VOICE COMMUNICATION CONTROL UNIT (FACU) - PRIORITY CONTROL NETWORK NODE W/ BYPASS SWITCHES, SPEAKER SELECT SWITCHES AND MICROPHONE.
2. FIRE ALARM TRANSPONDER CABINET (FTP) WITH POWER SUPPLIES AND AMPLIFIERS (EXACT QUANTITY TO BE DETERMINED BY FIRE ALARM VENDOR); PROVIDE DEDICATED SIGNALING LINE CIRCUIT(S) (SLC) SEPARATE FROM FLOOR SLC FOR STROBE RELEASING.
3A. SIGNALING LINE CIRCUIT (SLC); CLASS B - SUPERVISES / CONTROLS MANUAL PULL STATIONS, FIRE DETECTORS AND INTERFACE MODULES.
3B. SIGNALING LINE CIRCUIT (SLC); CLASS B - DEDICATED FOR STAIR PRESSURIZATION SYSTEM SUPERVISION / CONTROL (2-HR CIC)
4. STROBE CIRCUIT (STR); CLASS B - UTILIZED FOR VISUAL (STROBE) NOTIFICATION APPLIANCES.
5. SPEAKER CIRCUIT (SPK); CLASS B - UTILIZED FOR AUDIBLE / INTELLIGIBLE (SPEAKER) NOTIFICATION APPLIANCES.
6. SPEAKER CIRCUIT (SPK); CLASS B - UTILIZED FOR AUDIBLE / INTELLIGIBLE (SPEAKER) NOTIFICATION APPLIANCES IN EXIT STAIRWAYS. EXACT QUANTITY NOT SHOWN FOR CLARITY. (MANUAL PAGING ONLY).
7. FIRE FIGHTER'S SMOKE CONTROL PANEL.
8. SYSTEM RECORD DOCUMENTS BOX WITH DIGITAL FILE STORAGE.
9. DATA (COM) AND VOICE (DVC) NETWORK COMMUNICATION BETWEEN FACUS.
10. BRANCH CIRCUITS ORIGINATING FROM FCC / FIRE ALARM CLOSETS TO 2-HR RATED SHAFTS TRANSITION FROM CIC TO FPL IN EMT AT FATC.
11. BRANCH CIRCUITS WITHIN 2-HR RATED SHAFTS.
12. BI-DIRECTIONAL AMPLIFIER (BDA) FOR INTERIOR TWO-WAY EMERGENCY RESPONDER RADIO SIGNAL ENHANCEMENT.
13. EXTERIOR DONOR ANTENNA FOR BI-DIRECTIONAL AMPLIFIER.
14. COAXIAL CABLE (COAX); RADIATING "LEAKY" COAXIAL CABLE UTILIZED FOR SIGNAL ENHANCEMENT AND CONNECTION TO INTERIOR OMNI-DIRECTIONAL REPEATERS (ROUTING AND LOCATION / QUANTITY OF REPEATERS TO BE DETERMINED BY RADIO VENDOR).
15. COAXIAL CABLE SPLITTER.
16. NOT USED
17. DIGITAL CELLULAR COMMUNICATOR TRANSMITTER
18. LCD REMOTE ANNUNCIATOR

Reserved for permit stamp

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IFC Set 2 of 3
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FIRE ALARM RISER DIAGRAM

FA6.01