KEYED NOTES

1. SEPARATE 2 HOUR RATED SLC CIRCUITS SHALL BE RUN TO PROVIDE MONITORING AND CONTROL OF STAIR PRESSURIZATION FANS.

2. SMOKE CONTROL FANS FOR THE SMOKE CONTROL SYSTEM SHALL CONSIST OF A CONTROL RELAY TO CONTROL FAN SPEEDS AND MONITOR MODULES FOR END SWITCH POSITION MONITORING.

3. SUPPLY FAN CONTROL FOR THE SMOKE CONTROL SYSTEM SHALL CONSIST OF CONTROL RELAYS TO CONTROL FAN SPEEDS AND MONITOR MODULES FOR END SWITCH POSITION MONITORING.

4. SUPPLY/EXHAUST FAN CONTROL, NOT FOR SMOKE CONTROL USE, SHALL BE PROVIDED WITH CONTROL RELAYS FOR SHUTDOWN AND WITH MONITOR MODULES FOR MONITORING OF POWER TO THE FAN AT THE POWER DISCONNECT SWITCH.

MATCH LINE - SEE SHEET FA0.03 FOR CONTINUATION
KEYED NOTES

1. SEPARATE 2 HOUR RATED SLC CIRCUITS SHALL BE RUN TO PROVIDE MONITORING AND CONTROL OF STAIR PRESSURIZATION FANS.

2. AIR CONTROL DAMPER CONTROL FOR THE SMOKE CONTROL SYSTEM SHALL CONSIST OF A CONTROL RELAY FOR FORCE OPEN AND FORCE SHUT OPERATIONS AND TWO MONITOR MODULES FOR END SWITCH POSITION MONITORING.

3. SUPPLY FAN CONTROL FOR THE SMOKE CONTROL SYSTEM SHALL CONSIST OF CONTROL RELAYS TO CONTROL FAN OPERATIONS, DAMPER OPENING AND CLOSING, AND TWO MONITOR MODULES FOR END SWITCH POSITION MONITORING.

4. SUPPLY/EXHAUST FAN CONTROL, NOT FOR SMOKE CONTROL USE, SHALL BE PROVIDED WITH CONTROL RELAYS FOR SHUTDOWN AND WITH MONITOR MODULES FOR MONITORING OF POWER TO THE FAN AT THE POWER DISCONNECT SWITCH.

MATCH LINE - SEE SHEET FA0.02 FOR CONTINUATION
### SMOKE CONTROL MATRIX

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### SYSTEM OPERATION MATRIX

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NOTES

1. Fire alarm equipment used for the purposes of smoke control are shown in proximity to the units being served. Field verification will be necessary for proper installation.

2. Motor control center equipment used for smoke control that is not provided with contacts for power monitoring shall be provided with voltage-sensing relays to monitor for the presence of power. MCCs used for smoke control fans shall have two adjustable CT switches (on and off) to monitor for electrical current draw during fan operation.

KEYED NOTES

1. Fire water tank - two monitor modules required for tank fill and water temperature.

2. Diesel generator powered fire pump controller locations. Two controllers are present.

3. Fire pump valve tamper - provide individual monitoring of each tamper switch.

4. Location of the motor control center for SP-1 and SP-3 stair pressurization fans. Modules located at this control equipment include:
   4.1. Force on - control module
   4.2. Force off - control module
   4.3. Power monitor - monitor module
   4.4. On status - monitor module
   4.5. Off status - monitor module

5. Location of control equipment for non-smoke control supply fans. Modules located at this control equipment include:
   5.1. Force on - control module
   5.2. Force off - control module
   5.3. On status - monitor module
   5.4. Off status - monitor module

6. Location of control equipment for non-smoke control exhaust fans. Modules located at this control equipment include:
   6.1. Force on - control module
   6.2. Force off - control module
   6.3. On status - monitor module
   6.4. Off status - monitor module

7. Location of smoke control stair pressurization fans' monitor module shall be provided at the maintenance disconnect for constant monitoring.
NOTES
1. Fire alarm equipment used for the purposes of smoke control and ventilation is shown in proximity to the units being served. Field verification will be necessary for proper installation.
2. All devices installed in the garage area are to be weatherproof devices.

KEYED NOTES
1. Control modules shall be located behind the guard desk.
2. Location of control equipment for non-smoke control exhaust fans. A monitor module shall be provided at the maintenance disconnect for on-position monitoring.

4. Location of control equipment for non-smoke control exhaust fans. A monitor module shall be provided with the following devices.
   4.1 Force on - control module
   4.2 Force off - control module
   4.3 On status - monitor module
   4.4 Off status - monitor module

5. Monitor modules shall be placed at the fire alarm terminal, cabinet or enclosure of the terminal. A monitor shall be provided at the terminal, which shall be required for each of the two terminals, resulting in four modules required.

6. Two (2) control modules shall be placed next to the battery power supply for force open and force close conditions.
NOTES

1. FIRE ALARM EQUIPMENT USED FOR THE PURPOSES OF SMOKE CONTROL ARE SHOWN IN PROXIMITY TO THE UNITS BEING SERVED. FIELD VERIFICATION WILL BE NECESSARY FOR PROPER INSTALLATION.

2. ALL DEVICES INSTALLED IN THE GARAGE AREA ARE TO BE WEATHERPROOF DEVICES.

KEYED NOTES

1. PROVIDE HEAT DETECTORS WITHIN 2' OF EACH SPRINKLER HEAD.

2. PROVIDE THREE (3) CURTAIN TYPE FIRE EXTINGUISHER MODULES FOR ELEVATOR SERVICE CONNECTIONS.

3. LOCATION OF CONTROL EQUIPMENT FOR NON-SMOKE CONTROL SUPPLY
   3.1. FIRE ALARM CONTROL PANEL
   3.2. FORCE OFF - CONTROL MODULE
   3.3. ON STATUS - MONITOR MODULE

4. LOCATION OF CONTROL EQUIPMENT FOR NON-SMOKE CONTROL EXHAUST FANS. EACH FAN CONTROL SHALL BE PROVIDED WITH THE FOLLOWING:
   4.1. FORCE ON - CONTROL MODULE
   4.2. FORCE OFF - CONTROL MODULE
   4.3. ON STATUS - MONITOR MODULE
NOTES

1. FIRE ALARM EQUIPMENT USED FOR THE PURPOSES OF SMOKE CONTROL ARE SHOWN IN PROXIMITY TO THE UNITS BEING SERVED. FIELD VERIFICATION WILL BE NECESSARY FOR PROPER INSTALLATION.

2. ALL DEVICES INSTALLED IN THE GARAGE AREA ARE TO BE WEATHERPROOF DEVICES.

KEYED NOTES

1. LOCATION OF CONTROL EQUIPMENT FOR NON-SMOKE CONTROL EXHAUST FANS. EACH FAN CONTROL SHALL BE PROVIDED WITH THE FOLLOWING DEVICES.
1.1. FORCE ON - CONTROL MODULE
1.2. FORCE OFF - CONTROL MODULE
1.3. ON STATUS - MONITOR MODULE

2. MONITOR MODULES SHALL BE PLACED AT THE FIRE ALARM TERMINAL CABINET TO MONITOR THE TERMINALS CONNECTED TO THE END SWITCHES AT EACH DAMPER LOCATION. AC TRANSIT ASSUMES RESPONSIBILITY FOR THE CONTINUITY OF THE WIRE FROM THE TERMINAL CABINET TO THE DAMPER LOCATION. TWO MONITOR MODULES WILL BE REQUIRED FOR EACH OF THE TWO DAMPERS, RESULTING IN FOUR MODULES REQUIRED.

3. TWO CONTROL MODULES SHALL BE PLACED NEXT TO THE 24V/120V POWER SUPPLY FOR FORCE OPEN AND FORCE CLOSED CONDITIONS.

3.2 CONTROL MODULES SHALL BE PLACED NEXT TO THE 24V/120V POWER SUPPLY FOR FORCE OPEN AND FORCE CLOSED CONDITIONS.
NOTES

1. Fire alarm equipment used for the purposes of smoke control and where an extension to the existing wiring would be required. Verification will be necessary for proper installation.

KEYED NOTES

1. Monitor modules shall be placed at the fire alarm terminal cabinet to monitor the terminals connected to the end switches at each damper location. AC Transit assumes responsibility for the continuity of the wire from the terminal cabinet to the damper locations. Two monitor modules will be required for each of the two dampers, resulting in four modules required.

2. Two control modules shall be placed next to the 24V/120V power supply for force open and force closed conditions.
NOTES

1. Fire alarm equipment used for the purposes of smoke control are shown in proximity to the units being served. Field verification will be necessary for proper installation.

KEYED NOTES

1. Monitor modules shall be placed at the fire alarm terminal cabinets for the remote monitoring of the units connected to the terminal cabinets. Monitor modules will be installed at the fire alarm control panel to monitor the terminals connected to the end switches of the dampers. AC Transit assumes responsibility for the continuity of the wires from the terminal cabinets to the dampers.

2. Two control modules shall be placed next to the 24V/120V power supply for force open and force closed conditions.
1. Fire alarm equipment used for the purposes of smoke control are shown in proximity to the units being served. Field verification will be necessary for proper installation.

**KEYED NOTES**

1. Monitor modules shall be placed at the fire alarm terminal. Monitor modules are connected to the 2022 switching at each damper location. AC Transit assumes responsibility for the continuity of the wire from the terminal cabinet to the damper. Two (2) monitor modules will be required for each of the two (2) dampers, resulting in four (4) modules required.

2. Two (2) control modules shall be placed next to the 24V/120V power supply for force open and force closed conditions.
**NOTES**

1. Fire alarm equipment used for the purposes of smoke control and detection is shown in proximity to the units being served. Field verification will be necessary for proper installation.

**KEYED NOTES**

1. Monitor modules shall be placed at the fire alarm terminal cabinet to monitor the terminals connected to the siren switches at each stairwell location. AC Transit assumes responsibility for the continuity of the wires from the terminal module to the siren switch. A total of four monitor modules will be required for each of the two stairwell locations, resulting in a total of eight monitor modules required.

2. Two (2) control modules shall be placed next to the 24V/120V power supply for force open and force close conditions.

2. Monitor modules shall be placed at the fire alarm terminal cabinet to monitor the terminals connected to the siren switches at each stairwell location. AC Transit assumes responsibility for the continuity of the wires from the terminal module to the siren switch. A total of four monitor modules will be required for each of the two stairwell locations, resulting in a total of eight monitor modules required.

Two (2) control modules shall be placed next to the 24V/120V power supply for force open and force close conditions.

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**LEGEND**

- Fire alarm control panel
- Smoke detector
- Addressable control module
- Accessible control module
- Monitor module
- Accessible monitor module
- Remote monitor module
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NOTES
1. FIRE ALARM EQUIPMENT USED FOR THE PURPOSES OF SMOKE CONTROL AND ACTUATION PROXIMITY TO THE UNITS BEING SERVED. FIELD VERIFICATION WILL BE NECESSARY FOR PROPER INSTALLATION.

KEYED NOTES
1. MONITOR MODULES SHALL BE PLACED AT THE FIRE ALARM TERMINAL CABINET TO MONITOR THE TERMINALS CONNECTED TO THE END SWITCHES AT EACH DAMPER LOCATION. AC TRANSIT ASSUMES RESPONSIBILITY FOR THE CONTINUITY OF THE WIRE FROM THE TERMINAL CABINET TO THE DAMPER LOCATION. TWO (2) MONITOR MODULES WILL BE REQUIRED FOR EACH OF THE TWO (2) DAMPERS, RESULTING IN FOUR (4) MODULES REQUIRED.

2. TWO (2) CONTROL MODULES SHALL BE PLACED NEXT TO THE 24V/120V POWER SUPPLY FOR FORCE OPEN AND FORCE CLOSED CONDITIONS.

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7TH FLOOR FIRE ALARM LAYOUT
NOTES

1. Fire alarm equipment used for the purposes of smoke control and inside supervision to the base level is shown. Field verification will be necessary for proper installation.

KEYED NOTES

1. Monitor modules shall be placed at the fire alarm terminal cabinet to monitor the terminals connected to the end switches at each damper location. AC Transit assumes responsibility for the continuity of the wire from the terminal cabinet to the component location. Two (2) monitor modules shall be required for each of the two (2) dampers, resulting in four (4) modules required.

2. Two (2) control modules shall be placed next to the 24V/120V power supply for force open and force closed conditions.
NOTES
1. Fire alarm equipment used for the purposes of smoke control are subject to periodic tests and verification. Field verification will be necessary for proper installation.

KEYED NOTES
1. Monitor modules shall be placed at the fire alarm terminal cabinet to monitor the terminals connected to the 24 V/120 V power supply. AC Transit assumes responsibility for the continuity of the wiring from the terminal cabinet to the damper location. Two (2) monitor modules will be required for each of the two (2) dampers, resulting in four (4) modules required.

2. Two (2) control modules shall be placed next to the 24 V/120 V power supply for force open and force closed conditions.

3. Preaction panel shall be monitored for alarm, supervisory, and trouble conditions. Preaction panel to remain.

4. Halon releasing panel shall be monitored for alarm and trouble conditions. Halon panel to remain.

5. Location of preaction hardware (controlled by preaction panel, for information only).
1. Fire alarm equipment used for the purposes of smoke control and business continuity in the north and south exits. Full verification will be necessary for proper installation.

Keyed Notes:

1. Monitor modules shall be placed at the fire alarm terminal cabinet to ensure proper termination to the main alarm panel. AC Transit assumes responsibility for the continuity of the wire from the terminal cabinet to the alarm panel location. These monitor modules will be placed at one location, resulting in two (2) modules required.

2. Two (2) control modules shall be placed next to the 24V/120V power supply for force open and force closed conditions.

3. Control module shall interface with the door security panel located in the north and south exits of the controller to provide a power source for the fire alarm system.

4. New work is necessary for magnetic door releases is required. Check the existing equipment.
NOTES

1. FIRE ALARM EQUIPMENT USED FOR THE PURPOSES OF SMOKE CONTROL ARE SHOWN IN PROXIMITY TO THE UNITS BEING SERVED. FIELD VERIFICATION WILL BE NECESSARY FOR PROPER INSTALLATION.

2. CONDUIT INSTALLATION ON THE ROOF DECK WILL NOT BE PERMITTED. COORDINATE WITH THE OWNER FOR ACCEPTABLE PATHWAYS FOR CONDUIT ROUTING TO EQUIPMENT.

3. MOTOR CONTROL CENTER EQUIPMENT THAT IS NOT PROVIDED WITH CONTACTS FOR POWER MONITORING SHALL BE PROVIDED WITH CT SWITCHES TO MONITOR FOR THE PRESENCE OF ELECTRICAL CURRENT DURING FAN OPERATION.

KEYED NOTES

1. PROVIDE HEAT DETECTORS WITHIN 2' OF EACH SPRINKLER HEAD.

2. LOCATION OF RIDER PENETRATION TO PENTHOUSE.

3. LOCATION OF CONTROL EQUIPMENT FOR SMOKE CONTROL SUPPLY FANS. EACH FAN CONTROL SHALL BE PROVIDED WITH THE FOLLOWING DEVICES.

   3.1. FORCE ON - CONTROL MODULE

   3.2. FORCE OFF - CONTROL MODULE

   3.3. POWER MONITOR - MONITOR MODULE

   3.4. ON STATUS - MONITOR MODULE

   3.5. OFF STATUS - MONITOR MODULE

4. LOCATION OF CONTROL EQUIPMENT FOR NON-SMOKE CONTROL SUPPLY FANS. EACH FAN CONTROL SHALL BE PROVIDED WITH THE FOLLOWING:

   4.1. FORCE ON - CONTROL MODULE

   4.2. FORCE OFF - CONTROL MODULE

   4.3. OFF STATUS - MONITOR MODULE

5. LOCATION OF CONTROL EQUIPMENT FOR NON-SMOKE CONTROL EXHAUST FANS. EACH FAN CONTROL SHALL BE PROVIDED WITH THE FOLLOWING DEVICES.

   5.1. FORCE ON - CONTROL MODULE

   5.2. FORCE OFF - CONTROL MODULE

   5.3. OFF STATUS - MONITOR MODULE

6. LOCATION OF SMOKE CONTROL STAIR PRESSURIZATION FAN. A MONITOR MODULE SHALL BE PROVIDED AT THE MAINTENANCE DISCONNECT FOR ON-POSITION MONITORING.

7. LOCATION OF SMOKE CONTROL STAIR PRESSURIZATION FAN. MONITOR MODULE SHALL BE PROVIDED AT THE MAINTENANCE DISCONNECT FOR ON-POSITION MONITORING.

8. FIRE SMOKE DAMPER INTERFACE

   7.1. FORCE CLOSE - CONTROL MODULE

   7.2. OPEN STATUS - MONITOR MODULE

   7.3. CLOSED STATUS - MONITOR MODULE