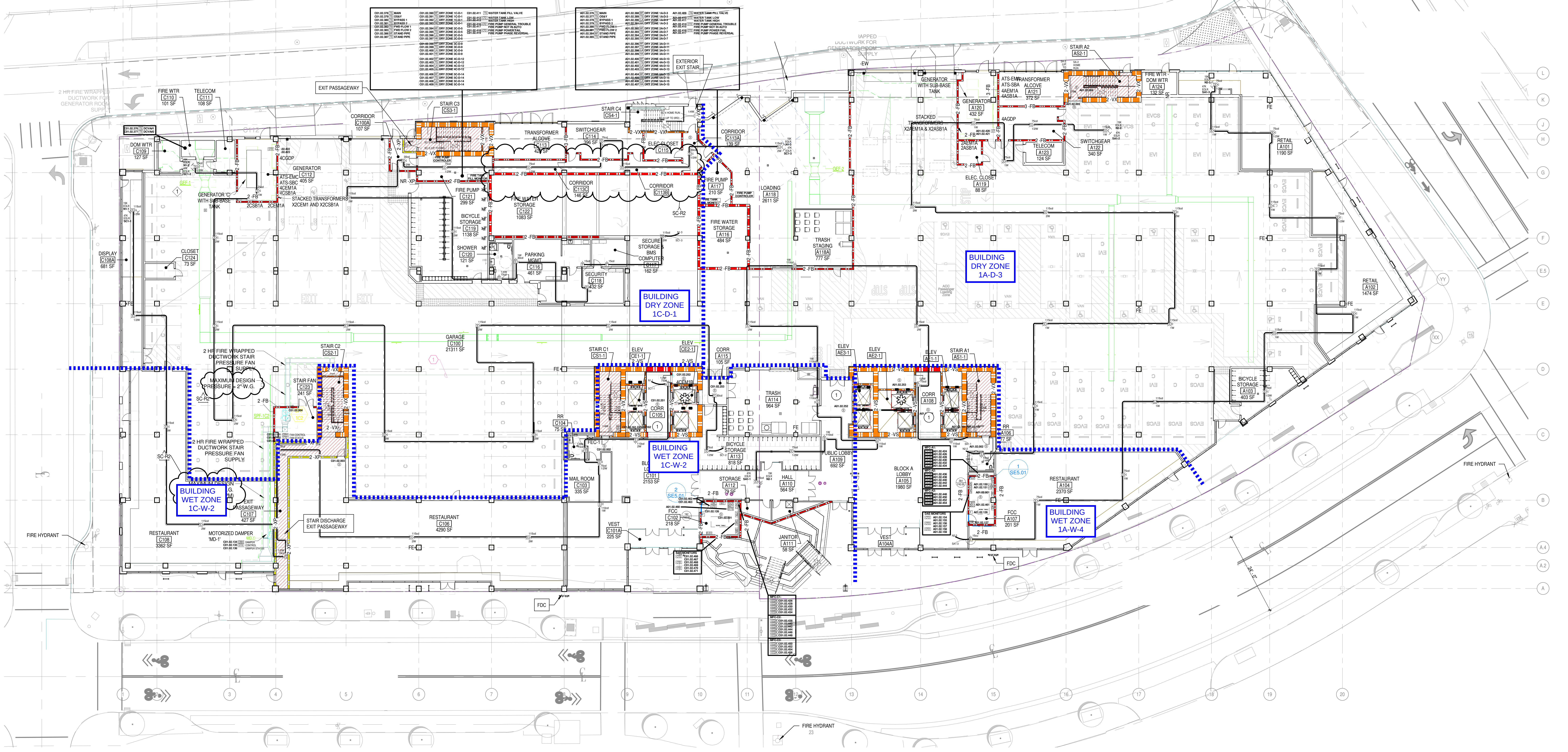

BUILDING DRY ZONE 1C-D-1
BUILDING WET ZONE 1C-W-2
BUILDING WET ZONE 1C-W-2
BUILDING DRY ZONE 1A-D-3
BUILDING WET ZONE 1A-W-4
GARAGE C100 21311 SF
RESTAURANT C106 4290 SF
RESTAURANT C108 3362 SF
RESTAURANT A104 2370 SF
RETAIL A101 1190 SF
RETAIL A102 1474 SF
DISPLAY C108A 681 SF
TRASH A114 964 SF
TRASH STAGING A118A 777 SF
LOADING A118 2611 SF
FIRE WATER STORAGE A116 484 SF
FIRE PUMP A117 210 SF
FIRE WATER STORAGE C122 1083 SF
FIRE PUMP C121 299 SF
GENERATOR C123 405 SF
GENERATOR A120 432 SF
SWITCHGEAR C114 296 SF
SWITCHGEAR A122 340 SF
TELECOM C111 108 SF
TELECOM A123 124 SF
FIRE WTR C110 101 SF
DOM WTR C109 127 SF
FIRE WTR - DOM WTR A124
STAIR A1 AS1-1
STAIR A2 AS2-1
STAIR C1 CS1-1
STAIR C2 CS2-1
STAIR C3 CS3-1
STAIR C4 CS4-1
STAIR FAN C123 241 SF
BLOCK A LOBBY A105 1980 SF
PUBLIC LOBBY A109 692 SF
BLOCK C LOBBY C101 2153 SF
MAIL ROOM C103 335 SF
BICYCLE STORAGE A113 818 SF
BICYCLE STORAGE A103 403 SF
FCC C102 218 SF
FCC A107 201 SF
HALL A110 564 SF
JANITOR A111 58 SF
STORAGE A112
VEST C101A 225 SF
VEST A104A
EXIT PASSAGEWAY C107 427 SF
STAIR DISCHARGE EXIT PASSAGEWAY
EXIT PASSAGEWAY
EXTERIOR EXIT STAIR
MAXIMUM DESIGN PRESSURE = 2" W.G.
2 HR FIRE WRAPPED DUCTWORK STAIR PRESSURE FAN SUPPLY
2 HR FIRE WRAPPED DUCTWORK FOR GENERATOR ROOM SUPPLY
STACKED TRANSFORMERS X2CEM1 AND X2CSB1A
STACKED TRANSFORMERS X2AEM1A & X2ASB1A
GENERATOR 'C' WITH SUB-BASE TANK
GENERATOR WITH SUB-BASE TANK
TRANSFORMER ALCOVE C113
TRANSFORMER ALCOVE A121 372 SF
ELEC. CLOSET C115
ELEC. CLOSET A119 88 SF
CORRIDOR C100A 107 SF
CORRIDOR C113A 139 SF
CORRIDOR C115B
CORRIDOR C113B
BICYCLE STORAGE C119 1138 SF
SHOWER C120 121 SF
PARKING MGMT C116 461 SF
SECURITY C118 432 SF
SECURE STORAGE BMS COMPUTER C117 162 SF
CLOSET C124 73 SF
RR C104 75 SF
RR A106
CORR C105
CORR A108
CORR A115 105 SF
MOTORIZED DAMPER 'MD-1'
FIRE HYDRANT
FDC
SC-R2
SC-P2

LEVEL 01

SCALE: 1/16" = 1'-0"

Sprinkler Systems

a)
- i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
- ii) Levels 2-5: Extend dry system into lobby spaces
- iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
- iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
- v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

⟨1⟩ PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

WALL SEPARATION LEGEND

WALL HOURLY RATING

0	=	0 HOUR	▬ ▬ ▬ ▬
1	=	1 HOUR	▬▬ ▬▬
2	=	2 HOUR	▬▬▬ ▬▬▬

WALL FIRE AND SMOKE PROTECTION TYPES

- 🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
- 🟥 FB 🟥 = FIRE BARRIER (RED)
- 🟩 SP 🟩 = SMOKE PARTITION (GREEN)
- 🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
- 🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
- 🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

(#) SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION

2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION

3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).

4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
AES	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
ⓢSB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ	HEAT DETECTOR W/BASE (135 DEG. F, FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H x 3.50"D
↑	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
↕	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FH	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

- INDICATES NAC CIRCUIT WIRING
- INDICATES SLC LOOP WIRING
- INDICATES SPEAKER WIRING
- 24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES

#####
- 3-DIGIT DEVICE/ADDRESS #
- 2-DIGIT SLC CARD #

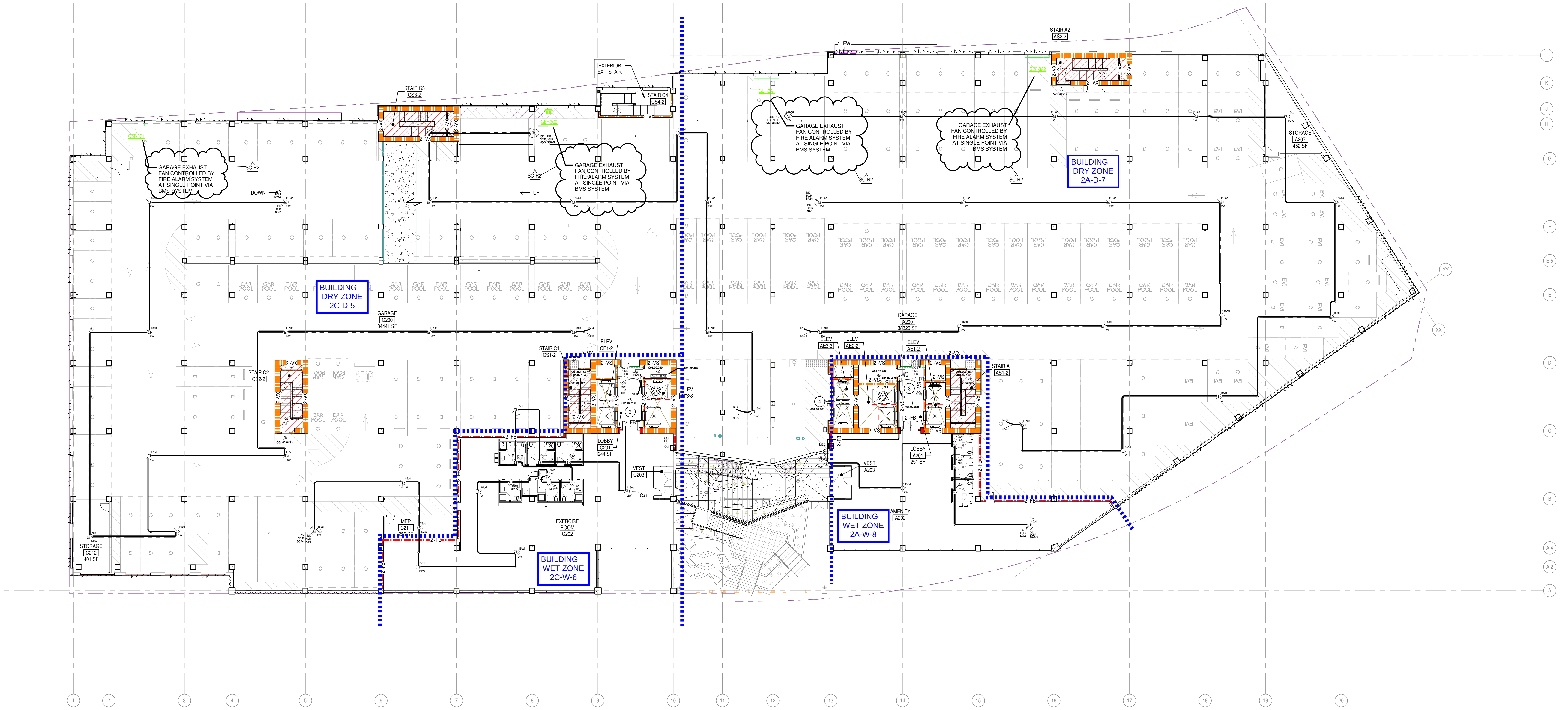
NOTIFICATION

N#-#
- CIRCUIT NUMBER
- PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

SC1.01


STAIR A2
AS2-2
1-EW
EXTERIOR EXIT STAIR
STAIR C4
CS4-2
STAIR C3
CS3-2
GARAGE EXHAUST FAN CONTROLLED BY FIRE ALARM SYSTEM AT SINGLE POINT VIA BMS SYSTEM
GARAGE EXHAUST FAN CONTROLLED BY FIRE ALARM SYSTEM AT SINGLE POINT VIA BMS SYSTEM
GARAGE EXHAUST FAN CONTROLLED BY FIRE ALARM SYSTEM AT SINGLE POINT VIA BMS SYSTEM
GARAGE EXHAUST FAN CONTROLLED BY FIRE ALARM SYSTEM AT SINGLE POINT VIA BMS SYSTEM
SC-R2
DOWN
UP
STORAGE
A207
432 SF
BUILDING DRY ZONE 2A-D-7
BUILDING DRY ZONE 2C-D-5
CAR POOL
GARAGE
C200
34441 SF
GARAGE
A200
38020 SF
STAIR C2
CS2-2
STAIR C1
CS1-2
ELEV
CE1-2
ELEV
CE2-2
ELEV
AE3-2
ELEV
AE2-2
ELEV
AE1-2
STAIR A1
AS1-2
2-VX
2-VS
2-FB
LOBBY
C201
244 SF
VEST
C203
LOBBY
A201
251 SF
VEST
A203
AMENITY
A202
MEP
C211
EXERCISE ROOM
C202
BUILDING WET ZONE 2C-W-6
BUILDING WET ZONE 2A-W-8
STORAGE
C212
401 SF
L
K
J
H
G
F
E.5
E
D
C
B
A4
A2
A
YY
XX
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

LEVEL 02

SCALE: 1/16" = 1'-0"

Sprinkler Systems

a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

⟨1⟩ PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
ACS	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
Ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ SB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ F	HEAT DETECTOR W/BASE (135 DEG. F, FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H x 3.50"D
	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FRI	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
#####
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

ⓘ SHEET NOTES - SMOKE CONTROL

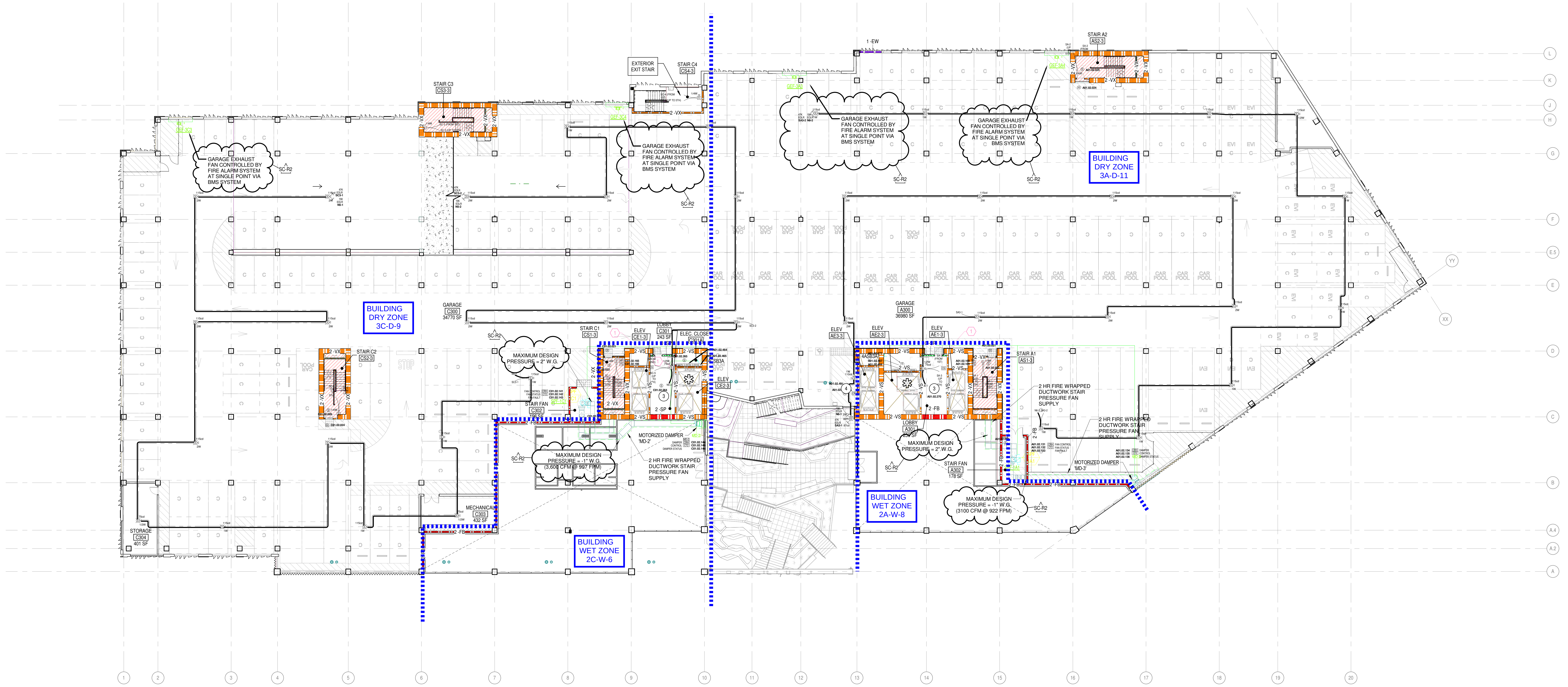
1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION

2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION

3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).

4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).

SC1.02



BUILDING DRY ZONE 3C-D-9
BUILDING DRY ZONE 3A-D-11
BUILDING WET ZONE 2C-W-6
BUILDING WET ZONE 2A-W-8
GARAGE EXHAUST FAN CONTROLLED BY FIRE ALARM SYSTEM AT SINGLE POINT VIA BMS SYSTEM
MAXIMUM DESIGN PRESSURE = 2" W.G.
MAXIMUM DESIGN PRESSURE = -1" W.G. (3,600 CFM @ 997 FPM)
MAXIMUM DESIGN PRESSURE = -1" W.G. (3100 CFM @ 922 FPM)
2 HR FIRE WRAPPED DUCTWORK STAIR PRESSURE FAN SUPPLY
MOTORIZED DAMPER 'MD-2'
MOTORIZED DAMPER 'MD-3'
GARAGE C300 34770 SF
GARAGE A300 36980 SF
STAIR C1 CS1-3
STAIR C2 CS2-3
STAIR C3 CS3-3
STAIR C4 CS4-3
STAIR A1 AS1-3
STAIR A2 AS2-3
EXTERIOR EXIT STAIR
STAIR FAN C302
STAIR FAN A302 178 SF
ELEV CE1-3
ELEV CE2-3
ELEV AE1-3
ELEV AE2-3
ELEV AE3-3
LOBBY C301 243 SF
LOBBY A301
ELEC. CLOSET
MECHANICAL C303 432 SF
STORAGE C304 401 SF
SC-R2
1 -EW
CAR POOL

LEVEL 03

SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

⟨1⟩ PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
ACS	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WS	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
ⓢSB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ	HEAT DETECTOR W/BASE (135 DEG. F, FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H X 3.50"D
↑	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
↓	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FRI	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
# # # # #
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

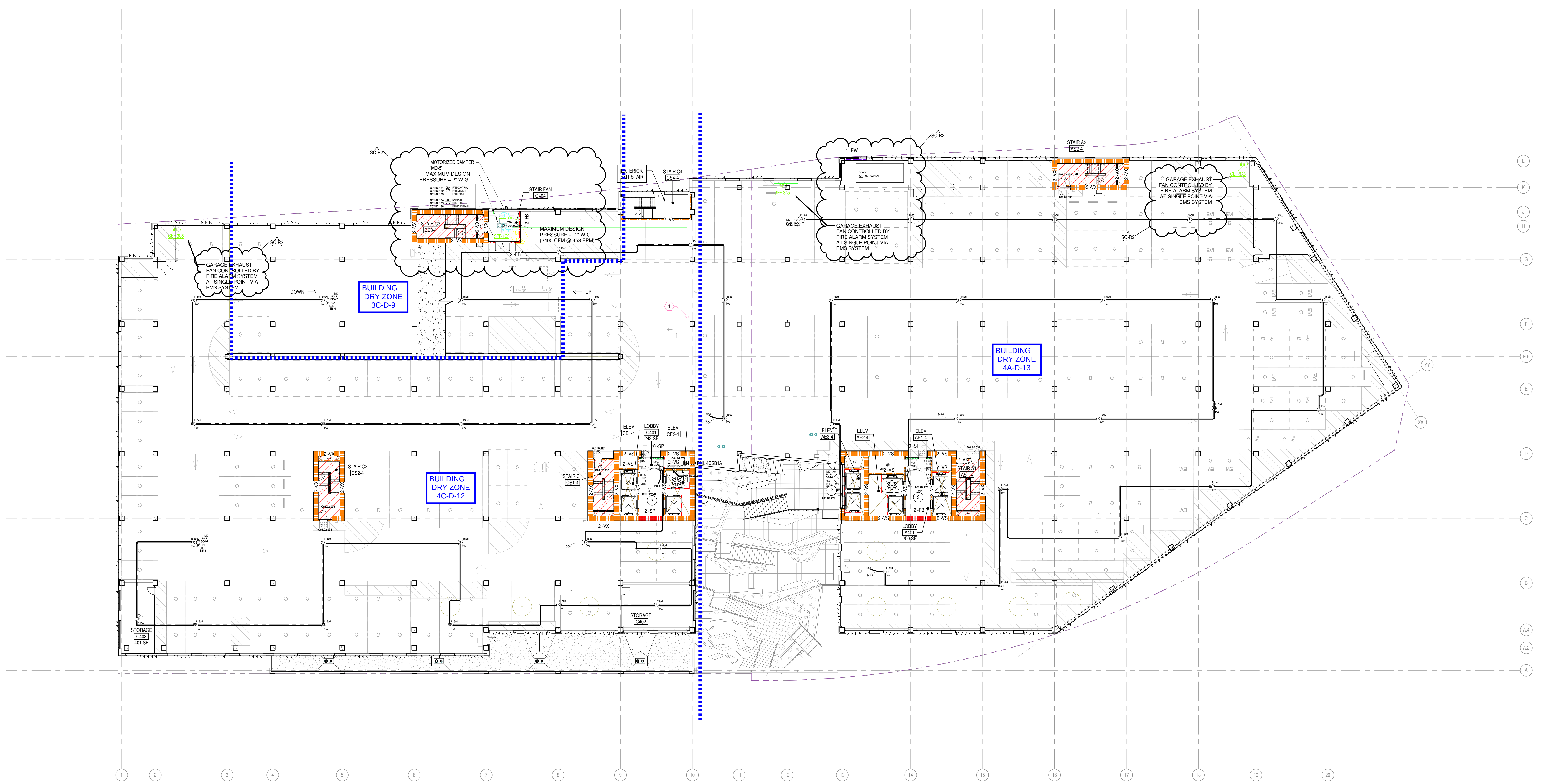
WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

## (#) SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).


SC-R2
MOTORIZED DAMPER 'MD-5'
MAXIMUM DESIGN PRESSURE = 2" W.G.
C01.02.151 CRH FAN CONTROL
C01.02.152 CT2 FAN STATUS
C01.02.153 FAN FAULT
C01.02.154 CRH DAMPER
C01.02.155 CT2 CONTROL
C01.02.156 DAMPER STATUS
STAIR FAN C404
MAXIMUM DESIGN PRESSURE = -1" W.G. (2400 CFM @ 458 FPM)
STAIR C3 CS3-4
SPF-1C3
2 -VX
2 -FB
EXTERIOR EXIT STAIR
STAIR C4 CS4-4
GARAGE EXHAUST FAN CONTROLLED BY FIRE ALARM SYSTEM AT SINGLE POINT VIA BMS SYSTEM
BUILDING DRY ZONE 3C-D-9
DOWN
UP
1 -EW
DOAS-3
CR A01.02.494
STAIR A2 AS2-4
A01.02.034
A01.02.033
GEF-3A6
BUILDING DRY ZONE 4A-D-13
STAIR C2 CS2-4
BUILDING DRY ZONE 4C-D-12
STAIR C1 CS1-4
C01.02.031
C01.02.032
ELEV CE1-4
LOBBY C401 243 SF
ELEV CE2-4
0 -SP
2 -VS
2 -SP
C01.02.270
C01.02.271
C01.02.474
DN TO PNL 4CSB1A
ELEV AE3-4
ELEV AE2-4
ELEV AE1-4
STAIR A1 AS1-4
A01.02.031
A01.02.278
A01.02.279
LOBBY A401 250 SF
STORAGE C403 401 SF
STORAGE C402
115cd
75cd
1W
2W
1/2W
47K EOLR SA4-1
15K EOLR N6-4
STOP
EVI
1
2
3

LEVEL 04

SCALE: 1/16" = 1'-0"

Sprinkler Systems
a) Building
- i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
- ii) Levels 2-5: Extend dry system into lobby spaces
- iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
- iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
- v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

1 PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
ACS	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
Ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
ⓈSB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ	HEAT DETECTOR W/BASE (135 DEG. F. FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H X 3.50"D
	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FRI	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
#####
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

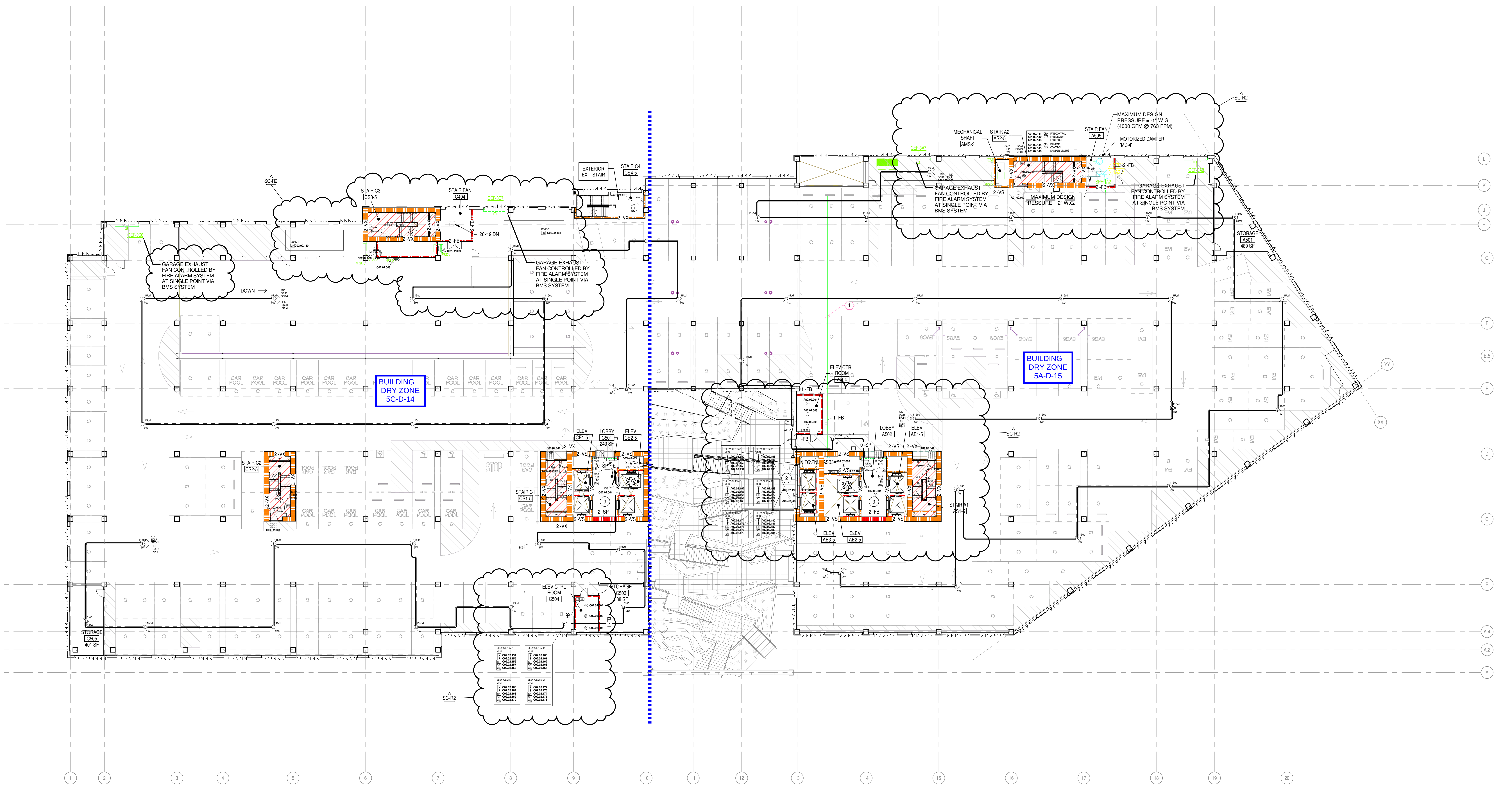
SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

# SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).

SC1.04


SC-R2
MAXIMUM DESIGN PRESSURE = -1" W.G. (4000 CFM @ 763 FPM)
MOTORIZED DAMPER 'MD-4'
MECHANICAL SHAFT AMS-3
STAIR A2 A52-5
STAIR FAN A505
GARAGE EXHAUST FAN CONTROLLED BY FIRE ALARM SYSTEM AT SINGLE POINT VIA BMS SYSTEM
MAXIMUM DESIGN PRESSURE = 2" W.G.
2-FB
2-VS
2-VX
STAIR C3 C53-5
STAIR FAN C404
EXTERIOR EXIT STAIR
STAIR C4 C54-5
26x19 DN
DOWN
BUILDING DRY ZONE 5C-D-14
BUILDING DRY ZONE 5A-D-15
STORAGE A501 489 SF
ELEV CTRL ROOM
1-FB
STAIR C2 C52-5
STAIR C1 C51-5
ELEV CE1-5
LOBBY C501 243 SF
ELEV CE2-5
2-SP
0-SP
LOBBY A502
ELEV AE1-5
ELEV AE3-5
ELEV AE2-5
STAIR A1 A51-5
ELEV CTRL ROOM C504
STORAGE C503
STORAGE C505 401 SF
CAR POOL
EVI
C
EVCS

LEVEL 05
SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

1. PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMIC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
AES	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
Ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ SB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ	HEAT DETECTOR W/BASE (135 DEG. F, FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H X 3.50"D
	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FHR	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
#####
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

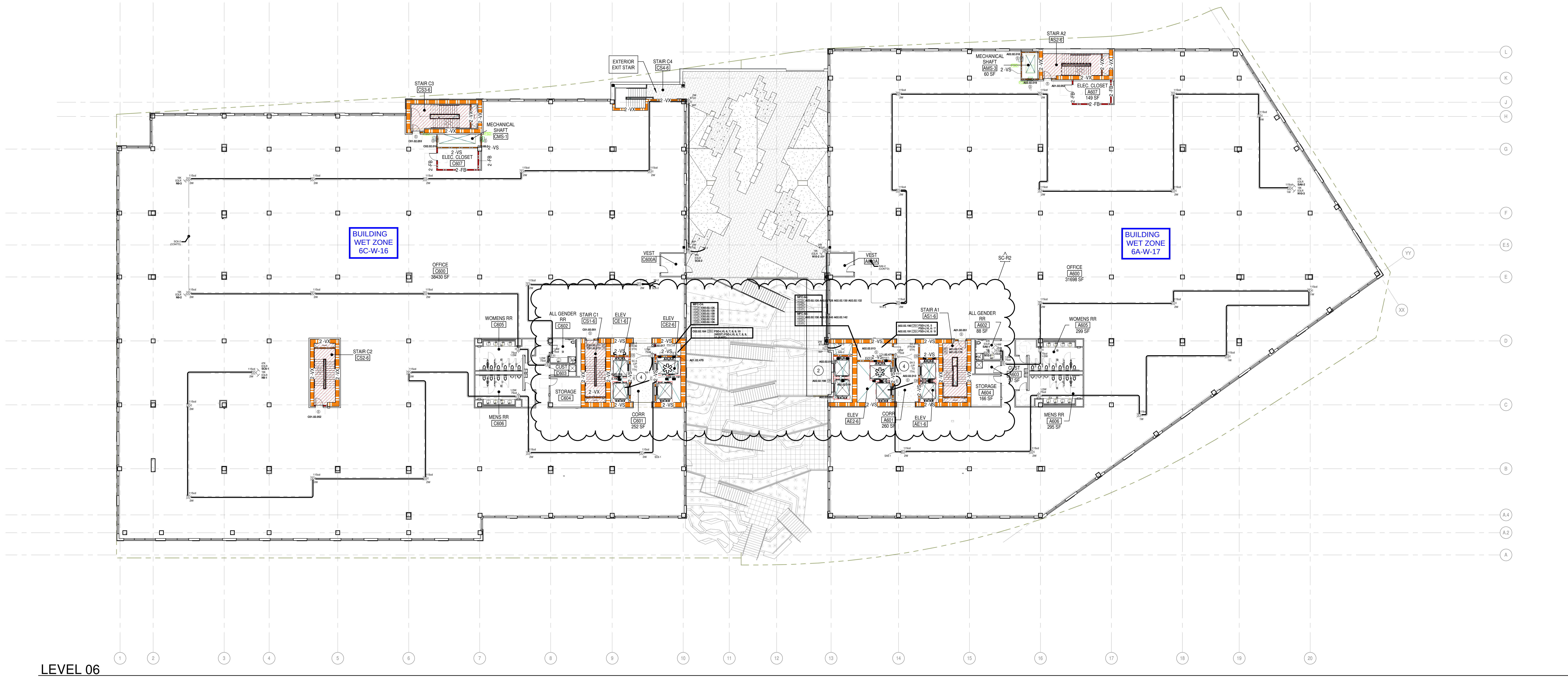
SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

# SHEET NOTES - SMOKE CONTROL

1. IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2. IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3. IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4. IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).

SC1.05


EXTERIOR EXIT STAIR
STAIR C4
CS4-6
STAIR C3
CS3-6
MECHANICAL SHAFT
CMS-1
ELEC. CLOSET
C607
STAIR A2
AS2-6
MECHANICAL SHAFT
AMS-3
60 SF
ELEC. CLOSET
A607
149 SF
BUILDING WET ZONE 6C-W-16
BUILDING WET ZONE 6A-W-17
OFFICE
C600
38430 SF
OFFICE
A600
31698 SF
VEST
C600A
VEST
A600A
SC-R2
WOMENS RR
C605
ALL GENDER RR
C602
STAIR C1
CS1-6
ELEV
CE1-6
ELEV
CE2-6
CUST
C603
STORAGE
C604
MENS RR
C606
CORR
C601
252 SF
STAIR C2
CS2-6
STAIR A1
AS1-6
ALL GENDER RR
A602
88 SF
WOMENS RR
A605
299 SF
ELEV
AE2-6
CORR
A601
260 SF
ELEV
AE1-6
STORAGE
A604
166 SF
MENS RR
A606
295 SF
CUST
A603
YY
XX

LEVEL 06

SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

⟨1⟩ PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BAT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
AES	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
Ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ$_{SB}$	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ$_{F}$	HEAT DETECTOR W/BASE (135 DEG. F. FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H x 3.50"D
	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FH	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
# # # # #
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

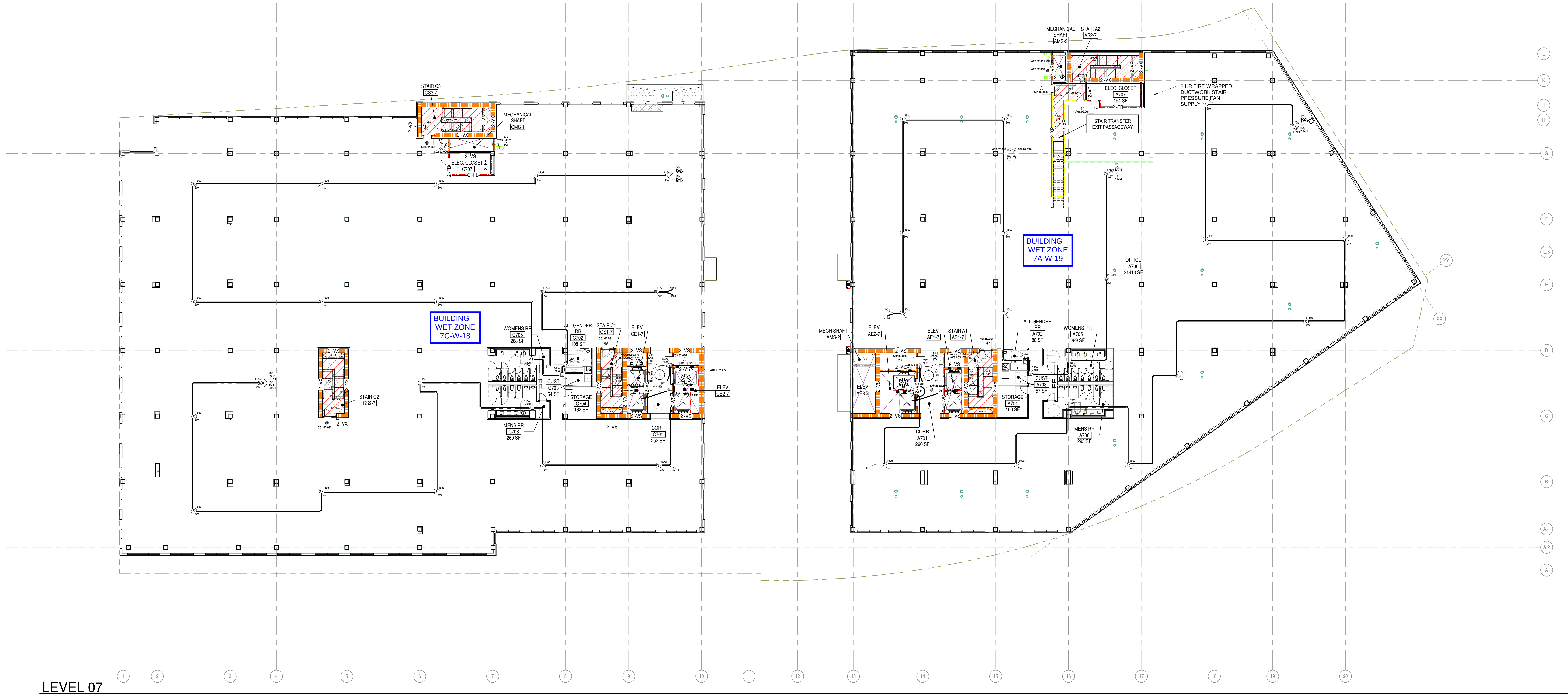
ⓧ SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION

2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION

3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).

4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).


STAIR C3
CS3-7
MECHANICAL SHAFT
CMS-1
ELEC. CLOSET
C707
2 -VX
2 -VS
BUILDING
WET ZONE
7C-W-18
WOMENS RR
C705
298 SF
ALL GENDER RR
C702
108 SF
STAIR C1
CS1-7
ELEV
CE1-7
CUST
C703
54 SF
STORAGE
C704
182 SF
ELEV
CE2-7
MENS RR
C706
269 SF
CORR
C701
252 SF
STAIR C2
CS2-7
MECHANICAL SHAFT
AMS-3
STAIR A2
AS2-7
ELEC. CLOSET
A707
194 SF
2 HR FIRE WRAPPED DUCTWORK STAIR PRESSURE FAN SUPPLY
STAIR TRANSFER EXIT PASSAGEWAY
2 -XP
BUILDING
WET ZONE
7A-W-19
OFFICE
A700
31413 SF
MECH SHAFT
AMS-2
ELEV
AE2-7
ELEV
AE1-7
STAIR A1
AS1-7
ALL GENDER RR
A702
88 SF
WOMENS RR
A705
299 SF
CUST
A703
57 SF
STORAGE
A704
166 SF
ELEV
AE3-7
CORR
A701
260 SF
MENS RR
A706
295 SF
L
K
J
H
G
F
E.5
E
D
C
B
A.4
A.2
A
YY
XX
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

LEVEL 07

SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

1 PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
AES	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
S	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
S SB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
H	HEAT DETECTOR W/BASE (135 DEG. F, FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
S	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H x 3.50"D
	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FRI	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

———	INDICATES NAC CIRCUIT WIRING
—— ——	INDICATES SLC LOOP WIRING
—— – – ——	INDICATES SPEAKER WIRING
—·– – ——	24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
# # # # #
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

WALL FIRE AND SMOKE PROTECTION TYPES
EW = EXTERIOR WALL (PURPLE)
FB = FIRE BARRIER (RED)
SP = SMOKE PARTITION (GREEN)
VS = VERTICAL SHAFT (ORANGE)
VX = VERTICAL EXIT ENCLOSURE (ORANGE)
XP = EXIT PASSAGEWAY (YELLOW)

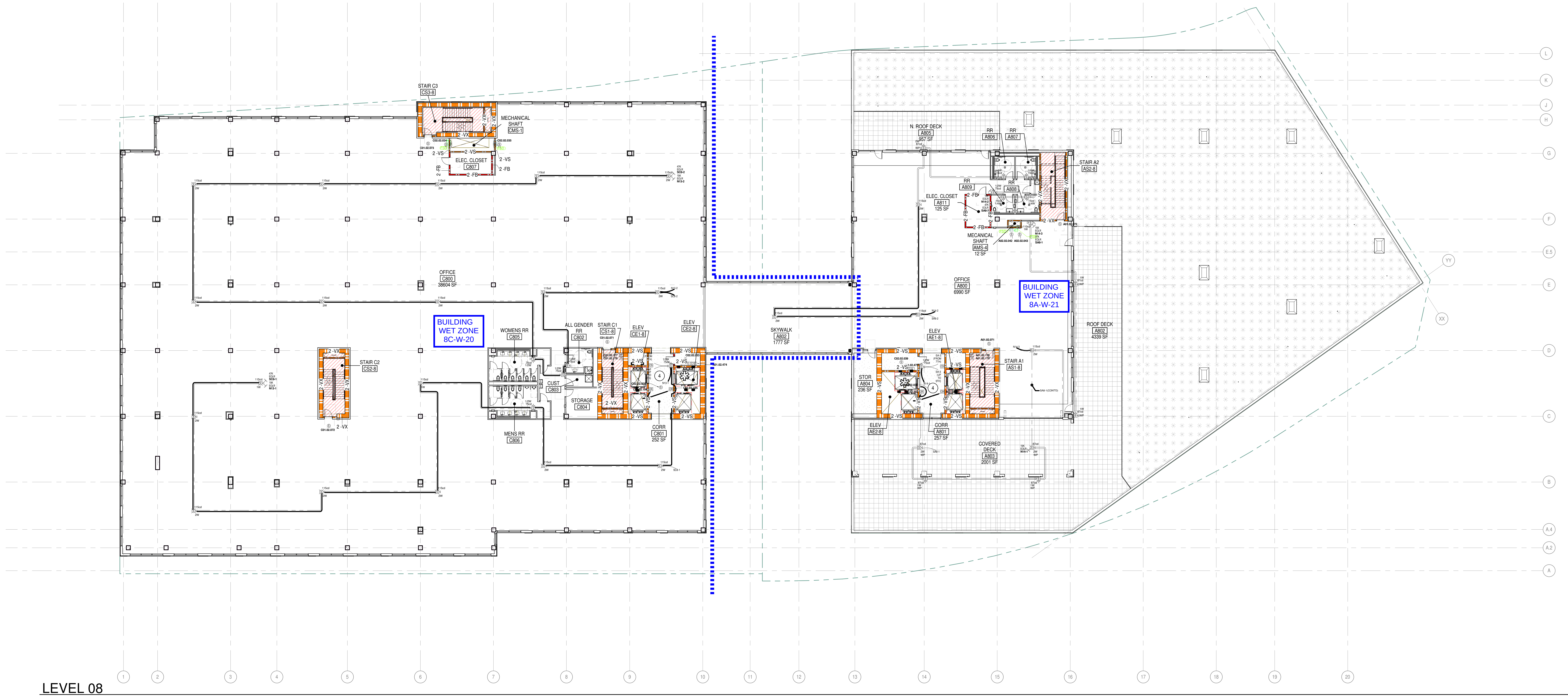
SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

# SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).

SC1.07


STAIR C3
CS3-8
MECHANICAL SHAFT
CMS-1
ELEC. CLOSET
C807
2 -VX
2 -VS
2 -FB
C02.02.034
C02.02.035
C01.02.073
FSD
115cd
2W
47K EOLR SC8-2
15K EOLR N13-2
OFFICE
C800
38604 SF
BUILDING WET ZONE 8C-W-20
STAIR C2
CS2-8
C01.02.072
WOMENS RR
C805
MENS RR
C806
ALL GENDER RR
C802
CUST
C803
STORAGE
C804
STAIR C1
CS1-8
C01.02.071
ELEV
CE1-8
ELEV
CE2-8
CORR
C801
252 SF
C02.02.033
A01.02.474
SKYWALK
A802
1777 SF
N. ROOF DECK
A805
957 SF
RR
A806
RR
A807
RR
A809
RR
A808
STAIR A2
AS2-8
ELEC. CLOSET
A811
125 SF
MECANICAL SHAFT
AMS-4
12 SF
A02.02.042
A02.02.043
A01.02.072
OFFICE
A800
6990 SF
BUILDING WET ZONE 8A-W-21
ROOF DECK
A802
4339 SF
ELEV
AE1-8
STAIR A1
AS1-8
A01.02.071
STOR
A804
236 SF
ELEV
AE2-8
CORR
A801
257 SF
COVERED DECK
A803
2001 SF
SA8-1(CONT'D)
4
L
K
J
H
G
F
E.5
E
D
C
B
A.4
A.2
A
YY
XX
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

LEVEL 08
SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

① PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
ACS	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
Ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ SB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ	HEAT DETECTOR W/BASE (135 DEG. F. FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H X 3.50"D
↕	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
↕	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FH	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
Ⓢ WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
# # # # #
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

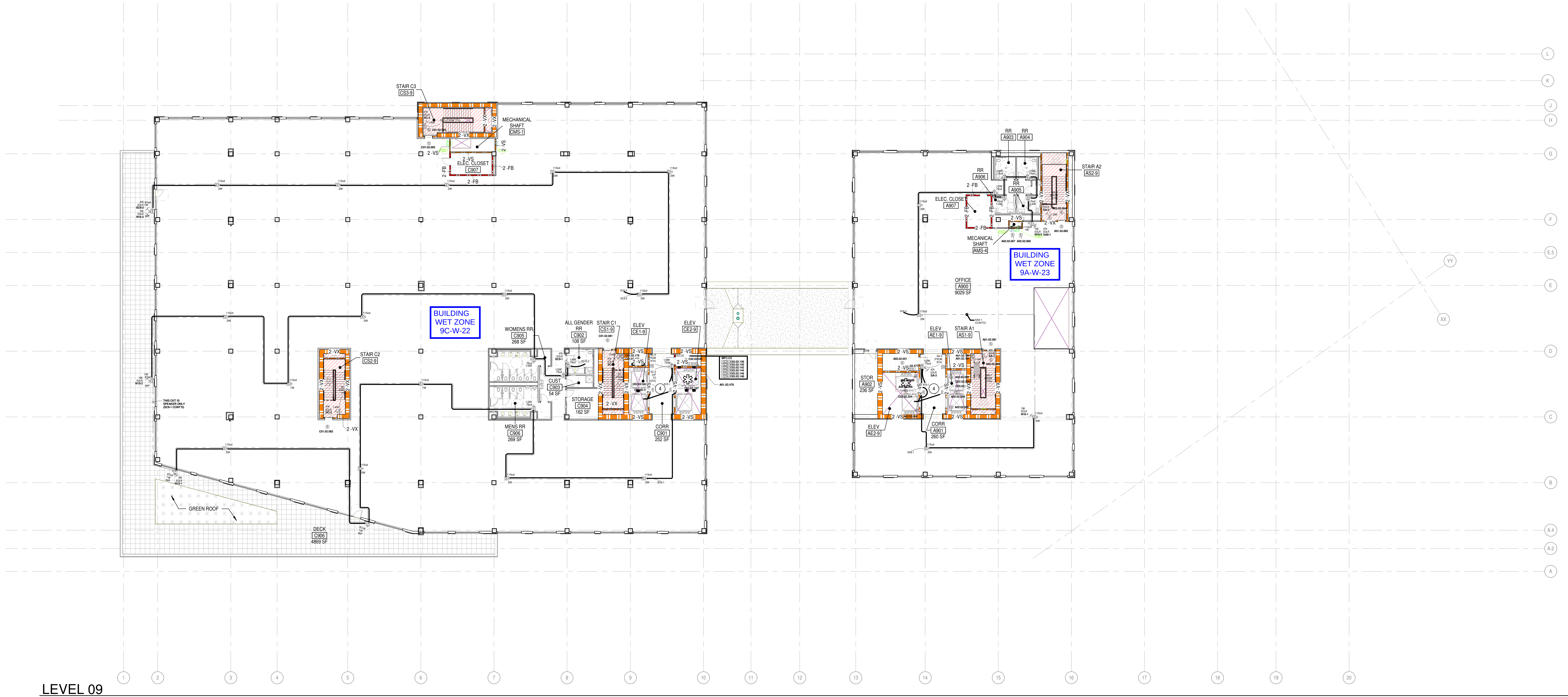
WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

Ⓧ SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).


STAIR C3
CS3-9
MECHANICAL SHAFT
CMS-1
2 -VX
2 -VS
ELEC. CLOSET
C907
2 -FB
STAIR C2
CS2-9
BUILDING WET ZONE 9C-W-22
WOMENS RR
C905
268 SF
ALL GENDER RR
C902
108 SF
STAIR C1
CS1-9
ELEV
CE1-9
ELEV
CE2-9
CUST
C903
54 SF
STORAGE
C904
162 SF
MENS RR
C906
269 SF
CORR
C901
252 SF
MFC-C5
THIS CKT IS SPEAKER ONLY (SC9-1 CONT'D)
GREEN ROOF
DECK
C908
4869 SF
RR
A903
RR
A904
RR
A906
RR
A905
STAIR A2
AS2-9
ELEC. CLOSET
A907
MECANICAL SHAFT
AMS-4
BUILDING WET ZONE 9A-W-23
OFFICE
A900
9029 SF
ELEV
AE1-9
STAIR A1
AS1-9
STOR
A902
236 SF
ELEV
AE2-9
CORR
A901
260 SF
2 -VS
2 -VX
2 -FB
115cd
2W
4

LEVEL 09

SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

⟨1⟩ PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
AES	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
S	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
S SB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
H C	HEAT DETECTOR W/BASE (135 DEG. F, FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
S	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H X 3.50"D
	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FRI	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

- INDICATES NAC CIRCUIT WIRING
- INDICATES SLC LOOP WIRING
- INDICATES SPEAKER WIRING
- 24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
#####
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

WALL FIRE AND SMOKE PROTECTION TYPES
EW = EXTERIOR WALL (PURPLE)
FB = FIRE BARRIER (RED)
SP = SMOKE PARTITION (GREEN)
VS = VERTICAL SHAFT (ORANGE)
VX = VERTICAL EXIT ENCLOSURE (ORANGE)
XP = EXIT PASSAGEWAY (YELLOW)

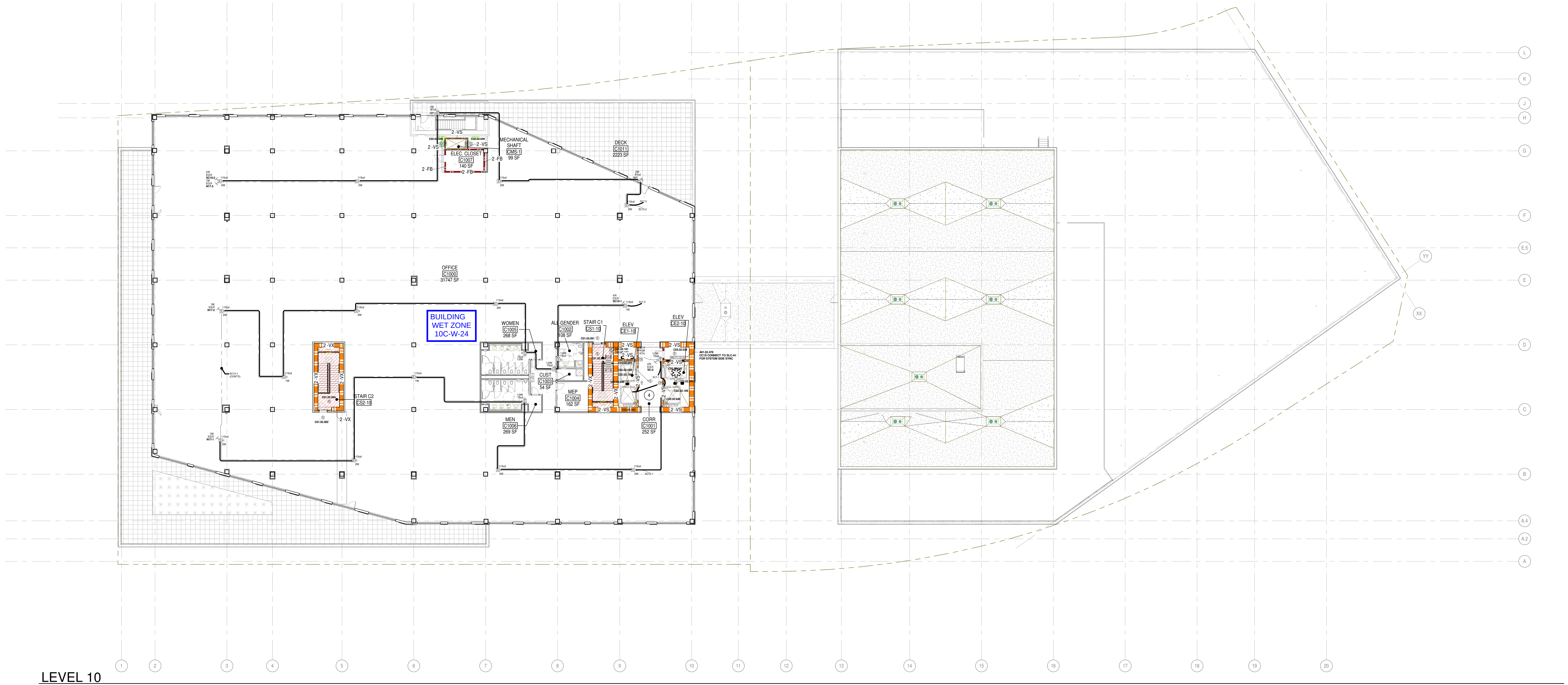
SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

# SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).

SC1.09



MECHANICAL SHAFT
CMS-1
99 SF
DECK
C1011
2223 SF
ELEC. CLOSET
C1007
140 SF
2 -VS
2 -FB
C02.02.048
C02.02.049
1W
87cd
WP
2W
115cd
1W
N17-3
SC10-2
OFFICE
C1000
31747 SF
BUILDING WET ZONE 10C-W-24
WOMEN
C1005
268 SF
ALL-GENDER
C1002
108 SF
STAIR C1
CS1-10
ELEV
CE1-10
ELEV
CE2-10
CUST
C1003
54 SF
MEP
C1004
162 SF
MEN
C1006
269 SF
CORR
C1001
252 SF
STAIR C2
CS2-10
2 -VX
1/2W
75cd
1/4W
15cd
47K
EOLR
SC10-1
N17-2
SC-5
(FROM 9TH)
47K
EOLR
SC-5
N17-1
C01.02.091
C01.02.181
C01.02.093
C02.02.041
C02.02.038
C02.02.198
C02.02.040
C02.02.042
C02.02.039
C02.02.045
C02.02.044
C02.02.199
C02.02.046
NAC17
CC1S
CR
4
A01.02.478
CC1S CONNECT TO SLC-A1 FOR SYSTEM SIDE SYNC
L
K
J
H
G
F
E.5
E
D
C
B
A.4
A.2
A
YY
XX
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

LEVEL 10

SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

⟨1⟩ PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	28"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMIC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
ACS	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
Ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ SB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ	HEAT DETECTOR W/BASE (135 DEG. F. FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H x 3.50"D
	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FH	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
Ⓢ WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
# # # # #
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

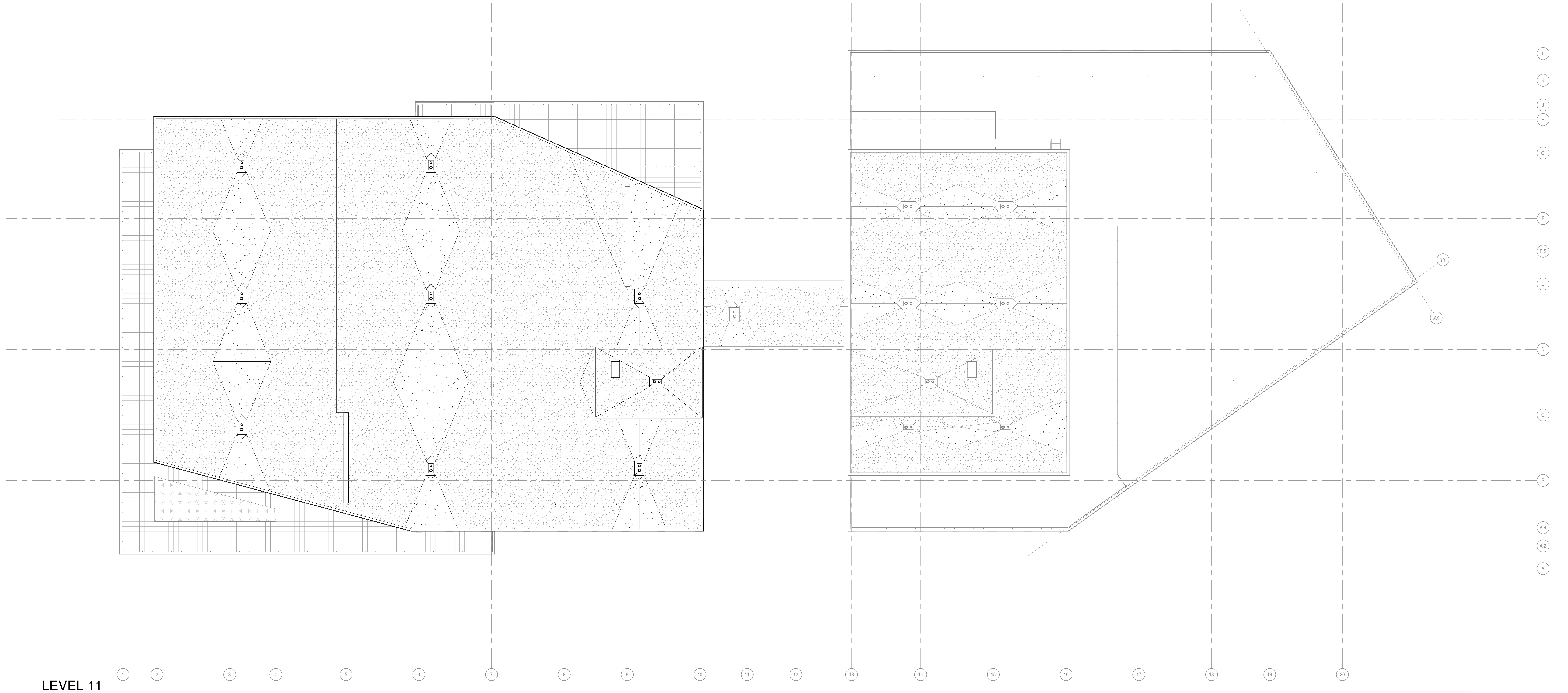
WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

## (#) SHEET NOTES - SMOKE CONTROL

1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).



LEVEL 11

SCALE: 1/16" = 1'-0"

Sprinkler Systems
- a) Building
  - i) Levels 1-5: Dry Sprinkler System in Garage/Storage Rooms
  - ii) Levels 2-5: Extend dry system into lobby spaces
  - iii) Levels 1: Wet Sprinkler System in Amenities, Retail, Lobbies, Bathrooms
  - iv) Levels 6-10: Wet Sprinkler Systems in Office Spaces, Bathrooms
  - v) Levels 6-10: Dry Sprinkler Systems on exterior balconies

KEYED NOTES

① PRESSURIZATION FAN CONTROL WIRING CONDUIT AND STANDBY POWER CONDUIT ROUTED UNDERGROUND.

SC-R2

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
ACS	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
ⓢSB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗc	HEAT DETECTOR W/BASE (135 DEG. F. FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H X 3.50"D
↑	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
↓	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
ST	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
FRI	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

INDICATES NAC CIRCUIT WIRING
INDICATES SLC LOOP WIRING
INDICATES SPEAKER WIRING
24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
# # # # #
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

WALL FIRE AND SMOKE PROTECTION TYPES
🟪 EW 🟪 = EXTERIOR WALL (PURPLE)
🟥 FB 🟥 = FIRE BARRIER (RED)
🟩 SP 🟩 = SMOKE PARTITION (GREEN)
🟧 VS 🟧 = VERTICAL SHAFT (ORANGE)
🟧 VX 🟧 = VERTICAL EXIT ENCLOSURE (ORANGE)
🟨 XP 🟨 = EXIT PASSAGEWAY (YELLOW)

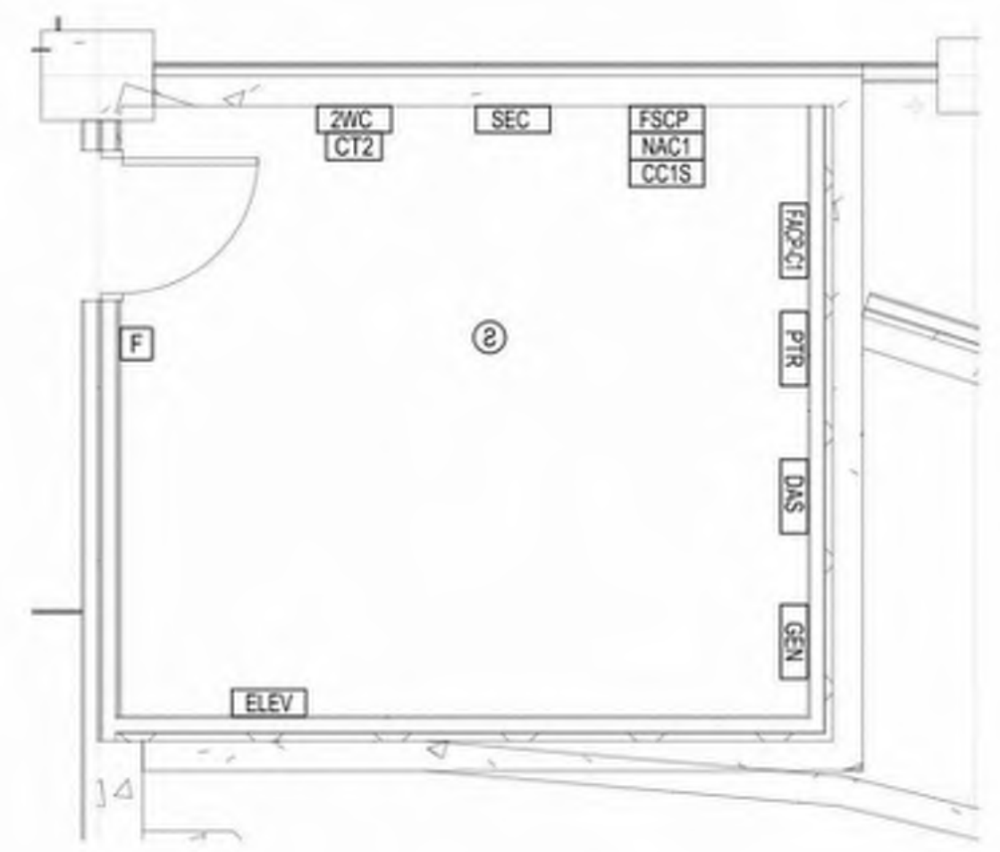
SMOKE CONTROL LEGEND

▨ HATCH PATTERN INDICATES PRESSURIZED EXIT

### (#) SHEET NOTES - SMOKE CONTROL

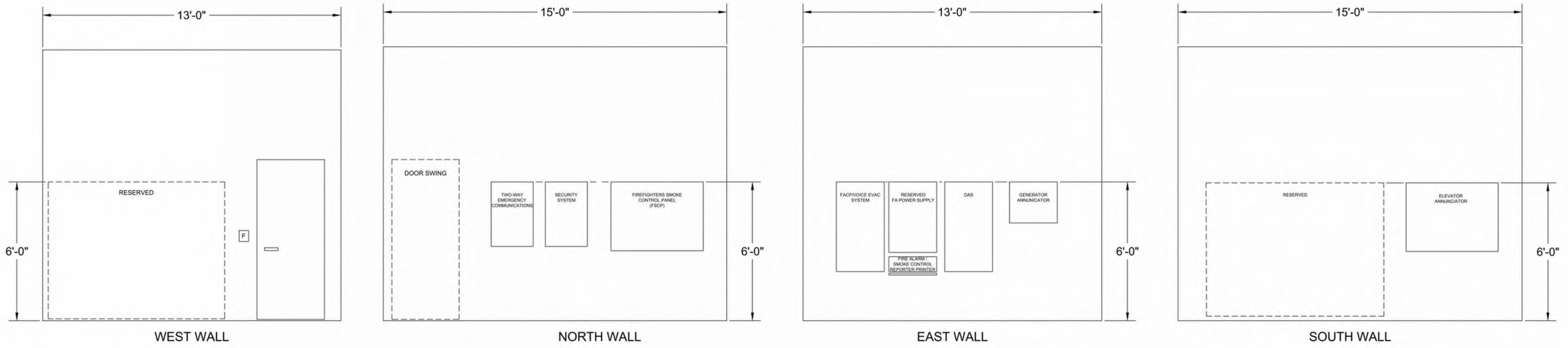
1 IBC 2018, 3006.2 EXCEPTION: 2. DOOR OPENING TO LEVEL OF EXIT DISCHARGE: NO PROTECTION
2 IBC 2018, 3006.3 EXCEPTION: 3. DOOR OPENING TO EXTERIOR: NO PROTECTION
3 IBC 2018, 3006.2 ITEM: 2. SMOKE PARTITION (VESTIBULE DOOR & PENETRATION PROTECTION).
4 IBC 2018, 3006.3 ITEM: 3. ADD'L DOOR AT HOISTWAY OPENING (SMOKE CURTAIN PROPOSED).

SC1.11


2WC
CT2
SEC
FSCP
NAC1
CC1S
FACP-C1
PTR
DAS
GEN
ELEV
F
2
14

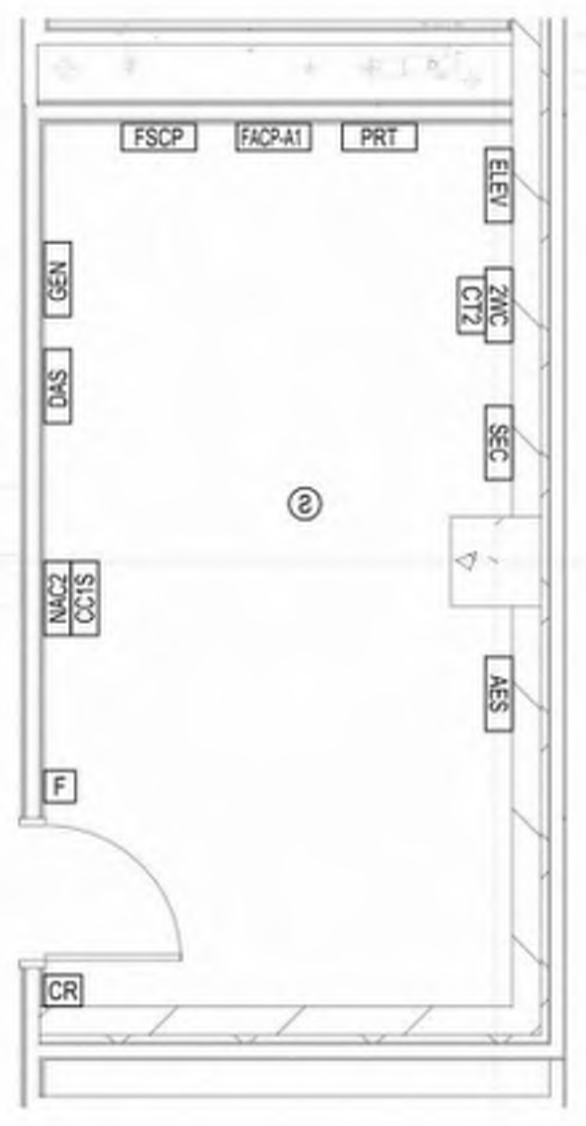
① - FCC C102 ENLARGED PLAN

2' 4' 8'
0 6" 1' 2' 3' 4'
SCALE: 1/4"=1'-0"


13'-0"
RESERVED
F
6'-0"
WEST WALL
15'-0"
DOOR SWING
TWO-WAY EMERGENCY COMMUNICATIONS
SECURITY SYSTEM
FIREFIGHTERS SMOKE CONTROL PANEL (FSCP)
6'-0"
NORTH WALL
13'-0"
FACP/VOICE EVAC SYSTEM
RESERVED FA POWER SUPPLY
FIRE ALARM / SMOKE CONTROL REPORTER PRINTER
DAS
GENERATOR ANNUNICATOR
6'-0"
EAST WALL
15'-0"
RESERVED
ELEVATOR ANNUNCIATOR
6'-0"
SOUTH WALL

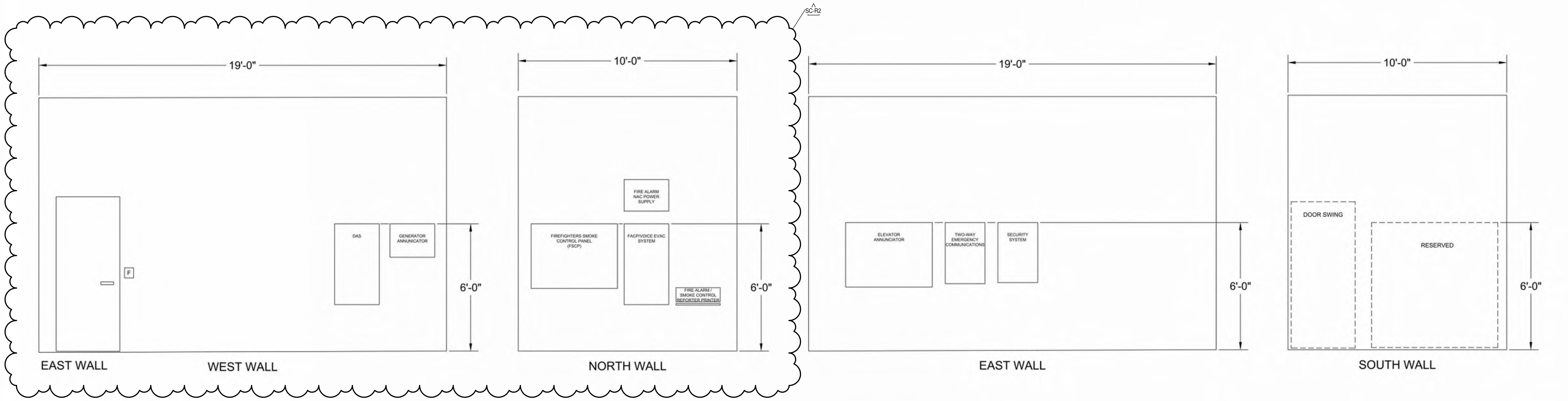
② - FCC C102 PANEL ELEVATIONS

1/2"=1'-0"
0 6" 1' 2' 3' 4' 5'


FSCP
FACP-A1
PRT
ELEV
2WC
CT2
SEC
AES
GEN
DAS
NAC2
CC1S
F
CR
2

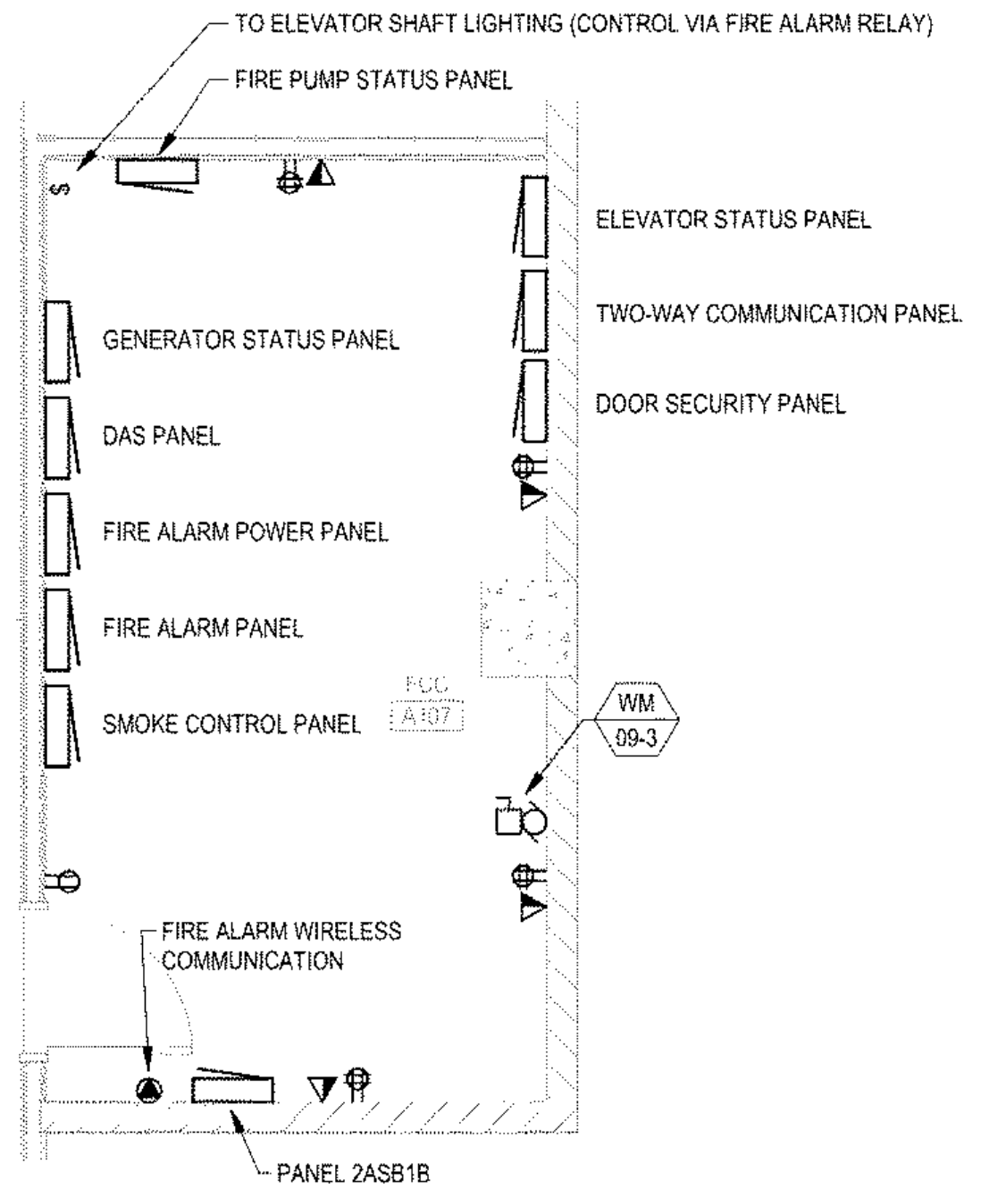
FCC A107 ENLARGED PLAN

2' 4' 8'
0 6" 1' 2' 3' 4'
SCALE: 1/4"=1'-0"

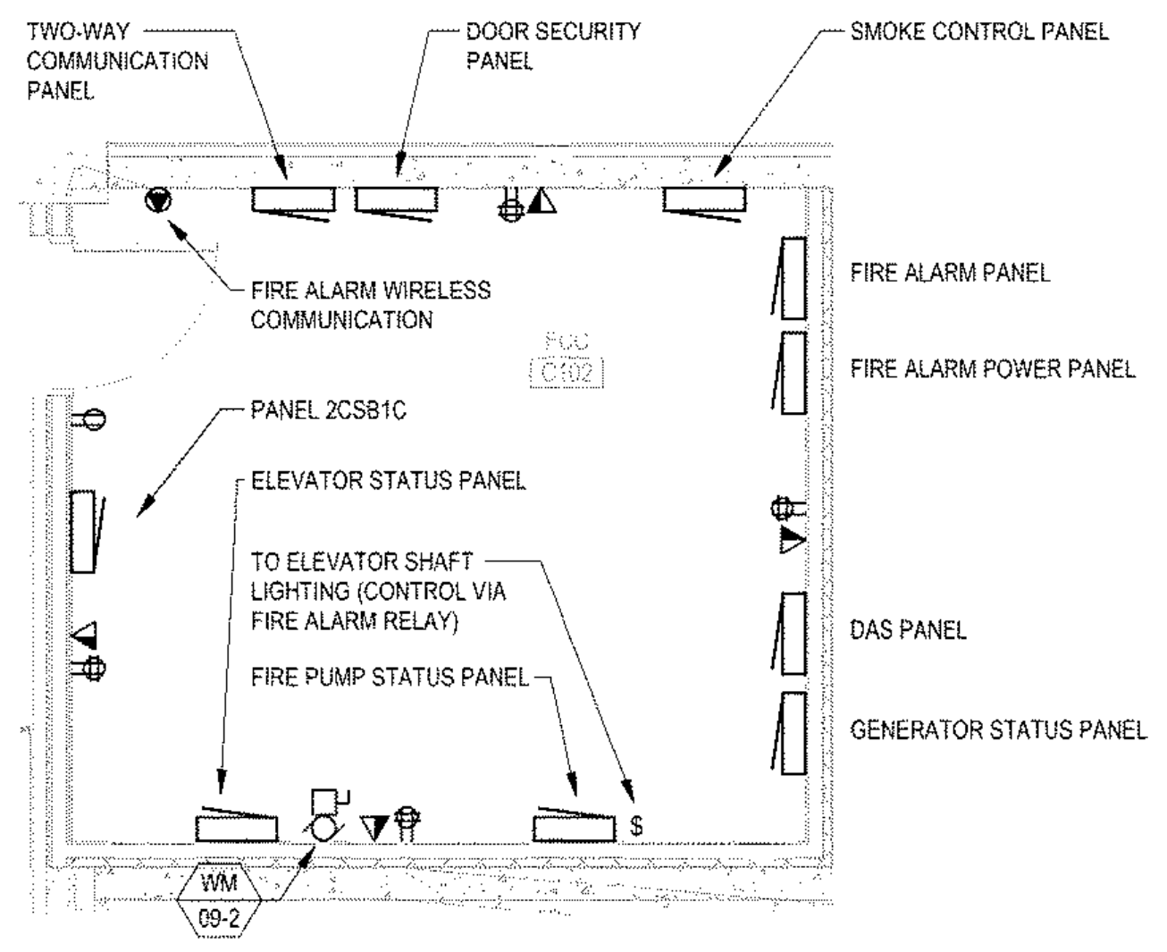

SC-R2
19'-0"
F
DAS
GENERATOR ANNUNICATOR
6'-0"
EAST WALL
WEST WALL
10'-0"
FIRE ALARM NAC POWER SUPPLY
FIREFIGHTERS SMOKE CONTROL PANEL (FSCP)
FACP/VOICE EVAC SYSTEM
FIRE ALARM / SMOKE CONTROL REPORTER PRINTER
6'-0"
NORTH WALL
19'-0"
ELEVATOR ANNUNCIATOR
TWO-WAY EMERGENCY COMMUNICATIONS
SECURITY SYSTEM
6'-0"
EAST WALL
10'-0"
DOOR SWING
RESERVED
6'-0"
SOUTH WALL

④ . - FCC A107 PANEL ELEVATIONS

1/2"=1'-0"
0 6" 1' 2' 3' 4' 5'


TO ELEVATOR SHAFT LIGHTING (CONTROL VIA FIRE ALARM RELAY)
FIRE PUMP STATUS PANEL
ELEVATOR STATUS PANEL
TWO-WAY COMMUNICATION PANEL
DOOR SECURITY PANEL
GENERATOR STATUS PANEL
DAS PANEL
FIRE ALARM POWER PANEL
FIRE ALARM PANEL
SMOKE CONTROL PANEL
FCC
A107
WM
09-3
FIRE ALARM WIRELESS COMMUNICATION
PANEL 2ASB1B
$

① **ENLARGED ELECTRICAL SMOKE CONTROL PLAN - - FCC A107**
1/4" = 1'-0"


TWO-WAY COMMUNICATION PANEL
DOOR SECURITY PANEL
SMOKE CONTROL PANEL
FIRE ALARM WIRELESS COMMUNICATION
FCC
C102
FIRE ALARM PANEL
FIRE ALARM POWER PANEL
PANEL 2CSB1C
ELEVATOR STATUS PANEL
TO ELEVATOR SHAFT LIGHTING (CONTROL VIA FIRE ALARM RELAY)
FIRE PUMP STATUS PANEL
DAS PANEL
GENERATOR STATUS PANEL
$
WM
09-2

② **ENLARGED ELECTRICAL SMOKE CONTROL PLAN - - FCC C102**
1/4" = 1'-0"

LOAD SUMMARY - PANEL 4AGDP

	LOAD TYPE							
PANEL	LIGHTS	RECEPT	HEATING	KITCHEN	EQUIP	MOTORS	MISC	**TOTAL**
ATS-EM	31089 VA							31089 VA
ATS-SBA		4320 VA	2000 VA		35020 VA	225800 VA		267140 VA
FIRE PUMP 'A'						149580 VA		149580 VA
TOTAL	31089 VA	4320 VA	2000 VA		35020 VA	375380 VA		447809 VA
CODE FACTOR	125.00%	100.00%	125.00%		100.00%	109.96%		
CODE LOAD	38861 VA	4320 VA	2500 VA		35020 VA	412775 VA		493476 VA
** LARGEST MOTOR HAS BEEN CALCULATED AT 125%.					**593.6 277Y/480V,3Ø,4W**			

***** DURING EMERGENCY OPERATION (3) ELEVATORS WILL BE LOCKED OUT. LOADS OF LOCKED OUT ELEVATORS ARE CURRENTLY REFLECTED IN GDP TOTALS.

LOAD SUMMARY - PNL 4CGDP

	LOAD TYPE							
PANEL	LIGHTS	RECEPT	HEATING	KITCHEN	EQUIP	MOTORS	MISC	**TOTAL**
ATS-EMC	31924 VA							31924 VA
ATS-SBC		5220 VA			64153 VA	153784 VA		223157 VA
FIRE PUMP 'C'						149580 VA		149580 VA
TOTAL	31924 VA	5220 VA			64153 VA	303364 VA		404661 VA
CODE FACTOR	125.00%	100.00%			100.00%	112.33%		
CODE LOAD	39905 VA	5220 VA			64153 VA	340759 VA		450037 VA
** LARGEST MOTOR HAS BEEN CALCULATED AT 125%.					**541.3 277Y/480V,3Ø,4W**			

***** DURING EMERGENCY OPERATION (2) ELEVATORS WILL BE LOCKED OUT. LOADS OF LOCKED OUT ELEVATORS ARE CURRENTLY REFLECTED IN GDP TOTALS.

FIRE ALARM LEGEND

SYM	DESCRIPTION	MODEL NUMBER	BACKBOX
FACP	FIRE ALARM CONTROL PANEL	EST EST-4	FURNISHED BACKBOX 3-CAB21B 27.34"W X 47.75"H X 3.86"D
NAC#	NAC EXPANSION PANEL	EST BPS6A OR 10A SEE RISER DIAGRAM	17"H X 13"W X 3.5"D (BPS6A / BPAS10A)
APS#	AUX 24V POWER SUPPLY	EST APS6A	26"H X 15"W X 5.3"D
BATT 1	BATTERY CABINET	EST BCC7-R	23.875"H X 25"W X 6"D
BATT-2	BATTERY CABINET	EST BC-1R	18.25"H X 14"W X 7.25"D
FSCP	FIRE-FIGHTER SMOKE CONTROL PANEL	TBD	TBD
RMIC	REMOTE MICROPHONE	EST 4-REMICA	MOUNTS IN REMOTE ANNUNCIATOR (FAA)
AES	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT1	ADDRESSABLE INPUT MODULE	EST SIGA-CT1	4" SQUARE W/1-GANG MUDRING
CT2	ADDRESSABLE DUAL INPUT MODULE	EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
TS	TAMPER SWITCH	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
WF	SPRINKLER WATER FLOW SENSOR	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
LA	DRY PIPE LOW AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
HA	DRY PIPE HIGH AIR ALARM	BY OTHERS EST SIGA-CT2	4" SQUARE W/1-GANG MUDRING
CC1S	SYNCHRONIZATION SIGNAL MODULE	EST SIGA-CC1S	MOUNTS IN NAC PANEL
CR	ADDRESSABLE OUTPUT MODULE	EST SIGA-CR	4" SQUARE W/1-GANG MUDRING
CRH	CONTROL RELAY; HIGH POWER	EST SIGA-CRH	4" SQUARE DEEP BOX
CC2	DUAL INPUT SIGNAL MODULE	EST SIGA-CC2A	MOUNTS IN MFC MODULE CABINET
F	MANUAL PULL STATION, DUAL ACTION	EST SIGA-278	1-GANG STANDARD ELEC. BOX
Ⓢ	PHOTOELECTRIC SMOKE W/BASE	EST SIGA-OSD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ SB	SMOKE W/SOUNDER BASE	SIGA-OSD W/ SIGA-AB4GLF	4" SQUARE DEEP BOX
Ⓗ S	HEAT DETECTOR W/BASE (135 DEG. F, FIXED)	EST SIGA-HFD	4" SQUARE OR OCTAGON STANDARD BOX
Ⓢ	HVAC DUCT DETECTOR W/ AUX. RLY & SAMPLING TUBE	EST SIGA-SD	FURNISHED WITH UNIT FOR SURFACE MOUNT ON DUCTWORK
RTS	DUCT DETECTOR REMOTE TEST SWITCH	EST SD-TRM	1-GANG STANDARD BOX
CO	CARBON MONOXIDE SENSOR, 24VDC	EST 260-CO	4" SQUARE DEEP BOX WITH 1-GANG MUDRING
MFC	MODULE CABINET	EST MFC-A	14"W X 8"H X 3.50"D
↓	ELEVATOR TO PRIMARY FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
↑	ELEVATOR TO ALTERNATE FLR RELAY	EST SIGA-CR	VIA MFC-A CABINET
S/T	ELEVATOR SHUNT TRIP RELAY	EST SIGA-CR	VIA MFC-A CABINET
F/H	ELEVATOR FIRE HAT RELAY	EST SIGA-CR	VIA MFC-A CABINET
PWR	ELEVATOR POWER SUPV. INPUT	EST SIGA-CT1	VIA MFC-A CABINET
S	SPEAKER-STROBE, CEILING, 70V	EST GCSVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER-STROBE, WALL, 70V	EST G4SVWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX WITH EXTENSION
S	SPEAKER, WALL, 70V	EST G4SWF WITH GRSW BACKPLATE	4" SQUARE DEEP BOX
S WP	SPEAKER-STROBE, WALL / CEILING, WP, 70V	EST WG4WF-SVMC	EST MODEL 449
S WP	SPEAKER, WALL / CEILING, WP, 70V	EST WG4WF-S	EST MODEL 449
F	STROBE, CEILING	EST GCVWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	STROBE, WALL	EST G4VWF WITH GP10 BACKPLATE	4" SQUARE STANDARD BOX
F	WATERFLOW BELL	BY OTHERS	BY OTHERS
M	MAGNETIC DOOR HOLDER	BY OTHERS VIA EST SIGA-CR	1-GANG STANDARD ELEC. BOX
MD#	MOTORIZED DAMPER (SMOKE CONTROL)	BY OTHERS	BY OTHERS

CIRCUIT TYPE

——————	INDICATES NAC CIRCUIT WIRING
—— ——	INDICATES SLC LOOP WIRING
—— – – ——	INDICATES SPEAKER WIRING
—— – ——	24V POWER CKT (A#-#)

DEVICE TAG

INITIATING DEVICES
#####
3-DIGIT DEVICE/ADDRESS #
2-DIGIT SLC CARD #

NOTIFICATION
N#-#
CIRCUIT NUMBER
PANEL NUMBER

ABBREVIATIONS

cd	CANDELLA
EOLR	END OF LINE RESISTOR
EOL	END OF LINE
WP	WEATHERPROOF
EP	EXPLOSION PROOF
PC	POLYCARBONITE COVER

FIRE ALARM CHECKLIST

Location	Yes	No	A/C Power:
			Dedicated 120 VAC for Fire Alarm Control Panel
			Dedicated Power for Remote NAC Power Supplies
			Circuit Breakers Location Recorded in FACP & NAC Panels
			Circuit Breaker Painted RED & Breaker Locks Installed
Location	Yes	No	Raceways & Boxes:
			40% Fill Rule is adhered to
			J-Boxes & Cans have covers installed
			Vertical Riser Cable is properly supported in Boxes
			Outside Boxes & conduit is weather tight
Location	Yes	No	Wiring & Cabling:
			Cable is proper size and type for project per calculations & Wire Schedule
			Non-Shielded wire used
			Open Cables properly strapped
			Open Cables below 7 ft. off of finished floor properly protected
			Check for "Opens" in wiring on all detection and notification circuits
			Check for "Shorts" in wiring on all detection and notification circuits
			Check for "Grounds" in Wiring on all detection and notification circuits
			"T" Taps and Junction boxes are clearly labeled on plans / as-builts
Location	Yes	No	Fire Alarm Panels:
			A/C Power location is labeled on all panels & power supplies
			Batteries have Manufacturer's date marked in Permanent Ink
			Panels are clean & professional looking
Location	Yes	No	Field Devices:
			Pull Stations at proper mounting height and location (48" to top of actionable part)
			Smoke detectors mounted per plans / spacing looks appropriate (no dead air space)
			Smoke detectors installed at least 4" from corners & not more than 12" below ceiling level
			Smoke detectors installed proper distance from Supply and Return Air Vents
			All devices are installed and accounted for on as-builts
			Horns / strobes at proper mounting height and location (80-96" AFF)
			Horns audibility meets minimum requirements
Location	Yes	No	Functional Test:
			All pull stations pulled for proper operation
			All smoke detectors activated with proper aerosol equipment
			All heat detectors tested according to manufacturer's instructions
			All sprinkler waterflows tested under actual flow condition
			All tamper / supervisory switches tested by valve actuation
			Duct detectors tested for proper function and universal shut down
			All Auxiliary relays operate according to system matrix
			Coordinated Trades (Perfomed by others)
Location	Yes	No	Mechanical / HVAC:
			All duct detectors are installed and operational
			All motorized dampers are installed and operational
			HVAC System is fully operational
Location	Yes	No	Electrical:
			Panels properly labeled (a/c, phones, batteries)
			A/C circuit breaker painted red & lock installed
			A/C circuit breaker dedicated
			Power to Door Holders dedicated & locked, painted red
Location	Yes	No	Door Hardware:
			All door holders are installed & powered up
			All door holders are properly aligned
Location	Yes	No	Sprinkler:
			All Flow Switches are installed
			All Tamper Switches are installed & adjusted
			Sprinkler Vault Switches are installed & adjusted
			PIV Valve & Switches are installed & adjusted
			Wall PIV's are installed & adjusted
			All Dry Flow Valves are installed
			Low Air Switches are installed
Location	Yes	No	Security:
			Door Releasing Hardware installed & powered up
			Interfacing functions according to matrix
Location	Yes	No	Elevator:
			Powered up, Programmed & Operational
			Elevator Functions Tested

GENERAL NOTES

A. ONLY NAC WIRING SHOWN. INSTALLATION CONTRACTOR TO SHOW SLC LOOP WIRING, INCLUDING CONDUIT & J-BOX DISTRIBUTION ON AS-BUILT DRAWINGS.

B. LABEL ALL ADDRESSABLE FIELD DEVICES SUCH THAT ADDRESS INFORMATION CAN BE READ FROM FLOOR LEVEL, WITHOUT NEED FOR LADDER - OTHER BOXES AND DEVICES LABELED AND READILY LEGIBLE ALSO.

C. PER NATIONAL FIRE ALARM CODE (NFPA 72-2016, 17.7.1.11.2), WHERE DETECTORS ARE INSTALLED BUT NOT OPERATIONAL DURING CONSTRUCTION, THEY SHALL BE PROTECTED FROM CONSTRUCTION DEBRIS, DUST, DIRT, AND DAMAGE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND VERIFIED TO BE OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF THE SYSTEM.

D. PER NATIONAL FIRE ALARM CODE (NFPA 72-2016, 17.7.4.1), IN SPACES SERVED BY AIR-HANDLING SYSTEMS, DETECTORS SHALL NOT BE LOCATED WHERE AIRFLOW PREVENTS OPERATION OF THE DETECTORS.

E. SYSTEM TO PROVIDE AUDIBLE NOTIFICATION TO ATTAIN 15db ABOVE AVERAGE AMBIENT SOUND LEVEL THROUGHOUT THE BUILDING OR SPACE.

F. STROBES SHALL BE SYNCHRONIZED WHERE TWO OR MORE STROBES ARE FOUND IN THE SAME FIELD OF VISION.

G. PROVIDE FA SYSTEM EQUIPMENT AND SERVICE LABELS PER AHJ REQUIREMENTS. THE LOCATION OF THE FACP PANEL TO BE PERMANENTLY NOTED AT THE ENTRY ANNUNCIATOR (TYPICALLY WITH SYSTEM ZONE MAP). THE LOCATION OF ALL NAC PANELS TO BE PERMANENTLY NOTED AT THE FACP PANEL. THE LOCATION OF THE POWER SOURCE CIRCUIT BREAKER PERMANENTLY LABELED AT FACP AND ALL NAC PANELS.

H. THE CONTRACTOR SHALL PRE-TEST THE SYSTEM TO VERIFY PROPER PERFORMANCE PRIOR TO INSPECTION.

I. FIRE ALARM SYSTEM WILL BE MONITORED BY A SUPERVISING STATION FOR ELECTRONICALLY MONITORED SYSTEMS. UL CERTIFIED CENTRAL STATION REQUIRED.
COMPANY NAME:__________________
UL CERTIFICATION #:________________

J. SYSTEM IS DESIGNED IN ACCORDANCE WITH COV FIRE CODE, WAC 51-54A-0907 AND NFPA 72-2016. SYSTEM SHALL BE INSTALLED PER NFPA 70 (NEC) 2017.

K. DEDICATED BRANCH CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED.

L. ALL SMOKE CONTROL WIRING, REGARDLESS OF VOLTAGE, SHALL BE FULLY ENCLOSED WITHIN CONTINUOUS RACEWAYS AS PRESCRIBED IN WSBC, SECTION 909.12.2 AND FURTHER DEFINE IN THE CITY OF VANCOUVER SMOKE CONTROL TECHNICAL STANDARDS. RACEWAY ON THIS PROJECT TO BE EMT OR MC CABLE AS PERMITTED BY THE CITY OF VANCOUVER.

M. ALL POWER AND CONTROL WIRING FIRE ALARM SERVING THE STAIR PRESSURIZATION SHALL BE 2-HOUR PROTECTED IN ACCORDANCE WITH SECTION 909.20.61 OF THE WSBC AND FURTHER DEFINED IN THE CITY OF VANCOUVER SMOKE CONTROL TECHNICAL STANDARDS.

N. IN ACCORDANCE WITH NFPA 72, SECTION 24.3.13.7, TWO-WAY IN-BUILDING WIRED EMERGENCY COMMUNICATIONS SYSTEM SHALL HAVE A PATHWAY SURVIVABILITY OF LEVEL 2 OR LEVEL 3.
EXCEPTION: LEVEL 1 SHALL BE PERMITTED WHERE THE BUILDING IS LESS THAN 2-HOUR FIRE RATED CONSTRUCTION.

O. PROVIDE THE FOLLOWING REQUIREMENTS FOR THE DISTRIBUTED ANTENNA SYSTEM IN ACCORDANCE WITH NFPA 1221 (2019 EDITION)

9.6.2.1: THE BACKBONE, ANTENNA DISTRIBUTION, OR ANY FIBER-OPTIC CABLES SHALL BE RATED AS PLENUM CABLES.

9.6.2.2: THE BACKBONE CABLES SHALL BE CONNECTED TO THE ANTENNA DISTRIBUTION, RADIATING, OR COPPER CABLES USING HYBRID COUPLER DEVICES OF A VALUE DETERMINED BY THE OVERALL DESIGN.

9.6.2.3: BACKBONE CABLES SHALL BE ROUTED THROUGH AN ENCLOSURE THAT MATCHES THE BUILDING FIRE FIRE RATING. NOTE: THE STAIR ENCLOSURE SHALL NOT BE USED FOR ROUTING CABLE.

9.6.2.4: THE CONNECTION BETWEEN THE BACKBONE CABLE AND THE ANTENNA CABLES SHALL BE MADE WITHIN AN ENCLOSURE THAT MATCHES THE BUILDING FIRE RATING AND PASSAGE OF ANTENNA DISTRIBUTION CABLE IN AND OUT OF THE ENCLOSURE SHALL BE FIRE-STOPPED.

9.6.3: SYSTEM SHALL HAVE LIGHTING PROTECTION THE COMPILES WITH NFPA 780.

SC-R2

P. SMOKE CONTROL SYSTEMS SHALL HAVE AN AUTOMATIC WEEKLY SELF-TEST FEATURE. THE SELF-TEST FEATURE SHALL AUTOMATICALLY COMMAND ACTIVATION OF EACH ASSOCIATED FUCTION(S). ANY FUNCTION THAT FAILS TO OPERATE WITHIN THE REQUIRED TIME PERIOD WILL REPORT THE ABNORMAL CONDITIONS AUDIBLY AND VISUALLY, WILL BE ANNUNCIATED ON THE FSCP, TRANSMIT A SUPERVISORY SIGNAL TO A REMOTE CENTRAL STATION AND AND DOCUMENTED BY PRINTED REPORT.

SC-R2

DESIGN NARRATIVE:

THIS FIRE AND LIFE SAFETY SYSTEM IS DESIGNED TO PROVIDE FOR HIGH-RISE (CONTROL BY FLOOR) VOICE EVACUATION, MANUAL AND AUTOMATIC SMOKE CONTROL AND GARAGE FAN CONTROL, FIRE SPRINKLER MONITORING, STATUS MONITORING FOR DAS/ERRS, GENERATOR, FIRE PUMP, FIRE WATER TANK, AND OTHER LIFE SAFETY SYSTEMS MONITORING. FIRE DETECTION AND CONTROLS ARE PROVIDED FOR PHASE 1 FIRE SERVICE ELEVATOR RECALL AND MECHANICAL SYSTEM FIRE/SMOKE DAMPER INTERFACE. THIS (B OCCUPANCY) OVER COMMON PARKING GARAGE (S-2 OCCUPANCY) STRUCTURE WILL HAVE TWO (2) INDEPENDENTLY FUNCTIONING FIRE COMMAND ROOMS ON THE GROUND FLOORS WITH ALL FIRE CONTROL PANELS OPERATING IN A PROGRAMMABLE PEER-TO-PEER NETWORK FOR FLEXIBILITY FOR OPERATION AND CUSTOM CONFIGURATION.

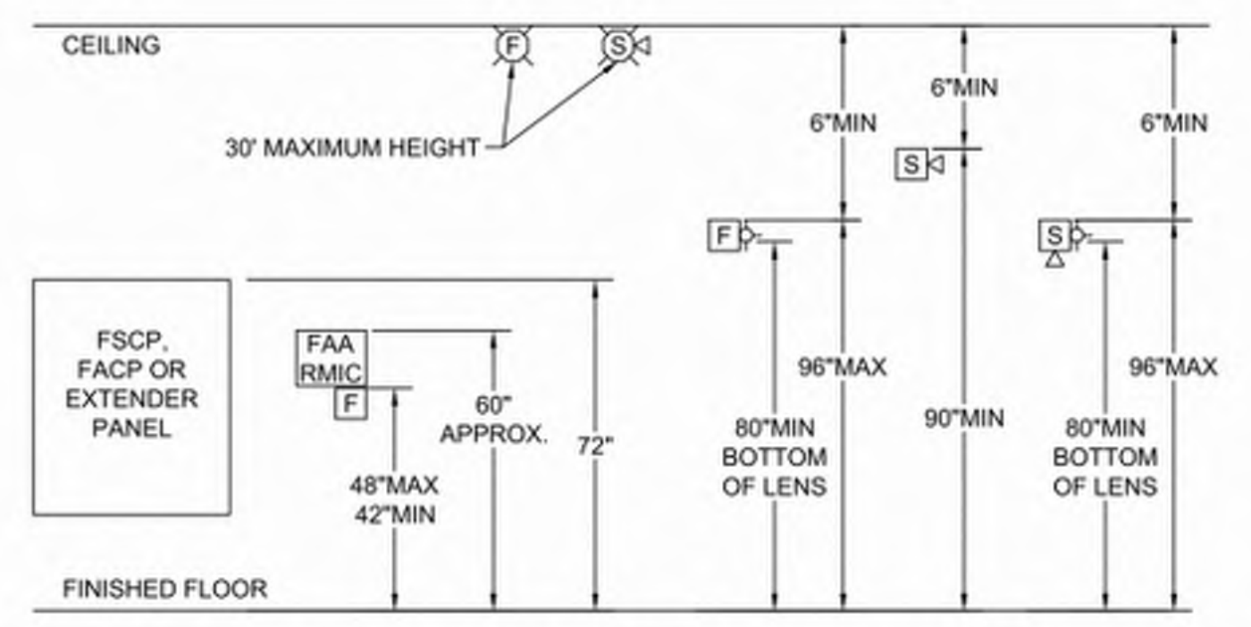
SC-R2

SEQUENCE OF OPERATION CONTROL MATRIX (GENERAL)

SYSTEM OPERATION DESCRIPTION (OUTPUTS)	SYSTEM DEVICES																		
	System Smoke Detector	System Heat Detector	Sprinkler Water Flow	Sprinkler Valve Tamper Switch	Sprinkler Hi/Low Air Pressure	Pressureization Fan Duct Smoke Detector	Elevator Mach RM Smoke/Heat Detector	Elevator Lobby Smoke Detector	Manual Pull Station	FSCP GSF/GEF Manual Control	System Status Normal	Fire Alarm AC Power Failure	Fire Alarm System Low Battery	Fire Alarm Open Circuit	Fire Alarm Ground Fault	Pressurization Damper Fail to Open/Close	Hoistway Damper Fail to Open/Close	Smoke Control Fan Fail to Start/Stop	Fan or Damper Power Disconnect
FACP Audible	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
FACP General Alarm Annun / Indication	X	X	X				X	X	X										
FACP Trouble Annun / Indication												X	X	X	X	X	X	X	X
FACP Supervisory Annun / Indication				X	X	X													
Illuminate Associated FSCP LED	X	X	X			X	X	X	X			X	X	X	X				
Illuminate FSCP FAULTED																X	X	X	X
Activate Building Audibles & Strobes	X	X	X				X	X	X										
Shutdown Building HVAC Units	X	X	X				X	X	X										
Close Corridor HVAC Dampers	X	X	X				X	X	X										
Open Stair Pressurization Dampers and Activate Fans	X	X	X				X	X	X										
Shutdown Respective Pressurization Fan						X													
Release All Elevator Fire-Smoke and Draft Doors	X	X	X				X	X	X										
Activate Garage Supply/Exhaust Fans to 100%										X									
Associated Elevator Phase 1 Recall							X	X											
Activate Associated Elevator Cab RedHat Indictor							X	X											

NOTES:
1) Provide Elevator Phase 1 Designated Level and Alternate Level Recall, Shunt Trip Function and Phase 2 FireFighters' In-Car Operation.

SC-R2



② TYPICAL FIRE ALARM DEVICE MOUNTING HEIGHTS

NOT TO SCALE

SHEET INDEX

SHEET NUMBER	DESCRIPTION
SC0.01	COVER SHEET - SMOKE CONTROL
SC0.02	SCHEDULES - SMOKE CONTROL
SC0.03	SCHEDULES - SMOKE CONTROL
SC0.04	BATTERY CALCS - SMOKE CONTROL
SC0.05	BATTERY CALCS - SMOKE CONTROL
SC0.06	BATTERY CALCS & SPEAKER LOADS - SMOKE CONTROL
SC0.07	SMOKE CONTROL PANEL DIAGRAM - SMOKE CONTROL
SC1.00	RISER DIAGRAM - SMOKE CONTROL - SMOKE CONTROL
SC1.01	RISER DIAGRAM - DETECTION & CONTROLS - SMOKE CONTROL
SC1.02	RISER DIAGRAM - NOTIFICATION - SMOKE CONTROL
SC2.00A	LEVEL 1 - FLOOR PLAN - SMOKE CONTROL
SC2.00B	LEVEL 1 - FLOOR PLAN - SMOKE CONTROL
SC2.01A	LEVEL 2 - FLOOR PLAN - SMOKE CONTROL
SC2.01B	LEVEL 2 - FLOOR PLAN - SMOKE CONTROL
SC2.02A	LEVEL 3 - FLOOR PLAN - SMOKE CONTROL
SC2.02B	LEVEL 3 - FLOOR PLAN - SMOKE CONTROL
SC2.03A	LEVEL 4 - FLOOR PLAN - SMOKE CONTROL
SC2.03B	LEVEL 4 - FLOOR PLAN - SMOKE CONTROL
SC2.04A	LEVEL 5 - FLOOR PLAN - SMOKE CONTROL
SC2.04B	LEVEL 5 - FLOOR PLAN - SMOKE CONTROL
SC2.05A	LEVEL 6 - FLOOR PLAN - SMOKE CONTROL
SC2.05B	LEVEL 6 - FLOOR PLAN - SMOKE CONTROL
SC2.06A	LEVEL 7 - FLOOR PLAN - SMOKE CONTROL
SC2.06B	LEVEL 7 - FLOOR PLAN - SMOKE CONTROL
SC2.07A	LEVEL 8 - FLOOR PLAN - SMOKE CONTROL
SC2.07B	LEVEL 8 - FLOOR PLAN - SMOKE CONTROL
SC2.08A	LEVEL 9 - FLOOR PLAN - SMOKE CONTROL
SC2.08B	LEVEL 9 - FLOOR PLAN - SMOKE CONTROL
SC2.09A	LEVEL 10 FLOOR PLAN - SMOKE CONTROL
SC2.09B	LEVEL 10 FLOOR PLAN - SMOKE CONTROL
SC2.10A	LEVEL ROOF BLOCK LOOR PLAN - SMOKE CONTROL
SC3.00	PANEL ELEVATION - SMOKE CONTROL - SMOKE CONTROL
SC5.00	DETAILS - SMOKE CONTROL

SC-R2

FACP-C1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — DETECTOR INPUTS

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
C0102	001	PHOTO SMOKE	FCC C102
C0102	002	PHOTO SMOKE	1ST FL STAIR C1 ENTRY
C0102	003	PHOTO SMOKE	1ST FL STAIR C2 ENTRY
C0102	004	DUCT DETECT.	SPF-1C2 SUPPLY
C0102	005		
C0102	006		
C0102	007		
C0102	008		
C0102	009		
C0102	010		
C0102	011	HEAT DETECT.	2ND FL STAIR C1 ENTRY
C0102	012	PHOTO SMOKE	2ND FL STAIR C1 LANDING
C0102	013	HEAT DETECT.	2ND FL STAIR C2 ENTRY
C0102	014	PHOTO SMOKE	2ND FL STAIR C2 LANDING
C0102	015		
C0102	016		
C0102	017		
C0102	018		
C0102	019		
C0102	020		
C0102	021	HEAT DETECT.	3RD FL STAIR C1 ENTRY
C0102	022	PHOTO SMOKE	3RD FL STAIR C1 LANDING
C0102	023	DUCT DETECT.	SPF-1C1 SUPPLY
C0102	024	HEAT DETECT.	3RD FL STAIR C2 ENTRY
C0102	025	PHOTO SMOKE	3RD FL STAIR C2 LANDING
C0102	026		
C0102	027		
C0102	028		
C0102	029		
C0102	030		
C0102	031	HEAT DETECT.	4TH FL STAIR C1 ENTRY
C0102	032	PHOTO SMOKE	4TH FL STAIR C1 LANDING
C0102	033	DUCT DETECT.	SPF-1C3 SUPPLY
C0102	034	HEAT DETECT.	4TH FL STAIR C2 ENTRY
C0102	035	PHOTO SMOKE	4TH FL STAIR C2 LANDING
C0102	036		
C0102	037		
C0102	038		
C0102	039		
C0102	040		
C0102	041	HEAT DETECT.	5TH FL STAIR C1 ENTRY
C0102	042	PHOTO SMOKE	5TH FL STAIR C1 LANDING
C0102	043	HEAT DETECT.	5TH FL STAIR C2 ENTRY
C0102	044	PHOTO SMOKE	5TH FL STAIR C2 LANDING
C0102	045		
C0102	046		
C0102	047		
C0102	048		
C0102	049		
C0102	050		
C0102	051	PHOTO SMOKE	6TH FL STAIR C1 ENTRY
C0102	052	PHOTO SMOKE	6TH FL STAIR C2 ENTRY
C0102	053	PHOTO SMOKE	6TH FL STAIR C3 ENTRY
C0102	054		
C0102	055		
C0102	056		
C0102	057		
C0102	058		
C0102	059		
C0102	060		
C0102	061	PHOTO SMOKE	7TH FL STAIR C1 ENTRY
C0102	062	PHOTO SMOKE	7TH FL STAIR C2 ENTRY
C0102	063	PHOTO SMOKE	7TH FL STAIR C3 ENTRY
C0102	064		
C0102	065		
C0102	066		
C0102	067		
C0102	068		
C0102	069		
C0102	070		
C0102	071	PHOTO SMOKE	8TH FL STAIR C1 ENTRY
C0102	072	PHOTO SMOKE	8TH FL STAIR C2 ENTRY
C0102	073	PHOTO SMOKE	8TH FL STAIR C3 ENTRY
C0102	074		
C0102	075		
C0102	076		
C0102	077		
C0102	078		
C0102	079		
C0102	080		
C0102	081	PHOTO SMOKE	9TH FL STAIR C1 ENTRY
C0102	082	PHOTO SMOKE	9TH FL STAIR C2 ENTRY
C0102	083	PHOTO SMOKE	9TH FL STAIR C3 ENTRY
C0102	084	PHOTO SMOKE	9TH FL TOP OF STAIR C3
C0102	085		
C0102	086		
C0102	087		
C0102	088		
C0102	089		
C0102	090		
C0102	091	PHOTO SMOKE	10TH FL STAIR C1 ENTRY
C0102	092	PHOTO SMOKE	10TH FL STAIR C2 ENTRY
C0102	093	PHOTO SMOKE	10TH TOP OF STAIR C1
C0102	094	PHOTO SMOKE	10TH TOP OF STAIR C2
C0102	095		
C0102	096		
C0102	097		
C0102	098		
C0102	099		
C0102	100		ADDRESSES CONTINUE TO 125
C0102	101		
C0102	102		
C0102	103		
C0102	104		
C0102	105		
C0102	106		
C0102	107		
C0102	108		
C0102	109		
C0102	110		
C0102	111		
C0102	112		
C0102	113		
C0102	114		
C0102	115		
C0102	116		
C0102	117		
C0102	118		
C0102	119		
C0102	120		
C0102	121		
C0102	122		
C0102	123		
C0102	124		
C0102	125		

FACP-C1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — MODULE INPUTS/OUTPUTS

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
C0102	126	PULL STATION	FCC C102
C0102	127	OUTPUT MODULE (CR)	OUTPUT TO BMS FOR GEF-C CONTROL
C0102	128		
C0102	129		
C0102	130		
C0102	131	OUTPUT MODULE (CRH)	PRESS. FAN SPF-1C2 CONTROL
C0102	132	DUAL INPUT MOD (CT2)	PRESS. FAN SPF-1C2 ON-OFF STATUS
C0102	133		PRESS. FAN SPF-1C2 FAULT
C0102	134	OUTPUT MODULE (CRH)	MOTOR DAMPER MD-1 CONTROL
C0102	135	DUAL INPUT MOD (CT2)	MOTOR DAMPER MD-1 OPEN STATUS
C0102	136		MOTOR DAMPER MD-1 CLOSED STATUS
C0102	137		
C0102	138		
C0102	139		
C0102	140		
C0102	141	OUTPUT MODULE (CRH)	PRESS. FAN SPF-1C1 CONTROL
C0102	142	DUAL INPUT MOD (CT2)	PRESS. FAN SPF-1C1 ON-OFF STATUS
C0102	143		PRESS. FAN SPF-1C1 FAULT
C0102	144	OUTPUT MODULE (CRH)	MOTOR DAMPER MD-2 CONTROL
C0102	145	DUAL INPUT MOD (CT2)	MOTOR DAMPER MD-2 OPEN STATUS
C0102	146		MOTOR DAMPER MD-2 CLOSED STATUS
C0102	147		
C0102	148		
C0102	149		
C0102	150		
C0102	151	OUTPUT MODULE (CRH)	PRESS. FAN SPF-1C3 CONTROL
C0102	152	DUAL INPUT MOD (CT2)	PRESS. FAN SPF-1C3 ON-OFF STATUS
C0102	153		PRESS. FAN SPF-1C3 FAULT
C0102	154	OUTPUT MODULE (CRH)	MOTOR DAMPER MD-5 CONTROL
C0102	155	DUAL INPUT MOD (CT2)	MOTOR DAMPER MD-5 OPEN STATUS
C0102	156		MOTOR DAMPER MD-5 CLOSED STATUS
C0102	157		
C0102	158		
C0102	159		
C0102	160		
C0102	161	DUAL INPUT MOD (CT2)	WATERFLOW- 1ST FL STAIR C1
C0102	162		VALVE TAMPER - 1ST FL STAIR C1
C0102	163	DUAL INPUT MOD (CT2)	WATERFLOW- 2ND FL STAIR C1
C0102	164		VALVE TAMPER - 2ND FL STAIR C1
C0102	165	DUAL INPUT MOD (CT2)	WATERFLOW- 3RD FL STAIR C1
C0102	166		VALVE TAMPER - 3RD FL STAIR C1
C0102	167		
C0102	168		
C0102	169		
C0102	170		
C0102	171	DUAL INPUT MOD (CT2)	WATERFLOW- 6TH FL STAIR C1
C0102	172		VALVE TAMPER - 6TH FL STAIR C1
C0102	173	DUAL INPUT MOD (CT2)	WATERFLOW- 7TH FL STAIR C1
C0102	174		VALVE TAMPER - 7TH FL STAIR C1
C0102	175	DUAL INPUT MOD (CT2)	WATERFLOW- 7TH FL STAIR C1
C0102	176		VALVE TAMPER - 7TH FL STAIR C1
C0102	177	DUAL INPUT MOD (CT2)	WATERFLOW- 8TH FL STAIR C1
C0102	178		VALVE TAMPER - 8TH FL STAIR C1
C0102	179	DUAL INPUT MOD (CT2)	WATERFLOW- 9TH FL STAIR C1
C0102	180		VALVE TAMPER - 9TH FL STAIR C1
C0102	181	DUAL INPUT MOD (CT2)	WATERFLOW- 10TH FL STAIR C1
C0102	182		VALVE TAMPER - 10TH FL STAIR C1
C0102	183		
C0102	184		
C0102	185		
C0102	186		
C0102	187		
C0102	188		
C0102	189		
C0102	190		
C0102	191		
C0102	192		
C0102	193		
C0102	194		
C0102	195		
C0102	196		
C0102	197		
C0102	198		
C0102	199		
C0102	200		
C0102	201		
C0102	202		
C0102	203		
C0102	204		
C0102	205		
C0102	206		
C0102	207		
C0102	208		
C0102	209		
C0102	210		
C0102	211		
C0102	212		
C0102	213		
C0102	214		
C0102	215		
C0102	216		
C0102	217		
C0102	218		
C0102	219		
C0102	220		
C0102	221		
C0102	222		
C0102	223		
C0102	224		
C0102	225		ADDRESSES CONTINUE TO 250
C0102	226		
C0102	227		
C0102	228		
C0102	229		
C0102	230		
C0102	231		
C0102	232		
C0102	233		
C0102	234		
C0102	235		
C0102	236		
C0102	237		
C0102	238		
C0102	239		
C0102	240		
C0102	241		
C0102	242		
C0102	243		
C0102	244		
C0102	245		
C0102	246		
C0102	247		
C0102	248		
C0102	249		
C0102	250		

FACP-C1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #2 — DETECTOR INPUTS

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
C0102	251	PHOTO SMOKE	1ST FL ELEV LOBBY C105
C0102	252	PHOTO SMOKE	1ST FL ELEC CLOSET C105A
C0102	253	PHOTO SMOKE	1ST FL ELEV LOBBY A115
C0102	254		
C0102	255		
C0102	256		
C0102	257		
C0102	258	PHOTO SMOKE	2ND FL ELEV LOBBY C201
C0102	259	PHOTO SMOKE	2ND FL ELEC CLOSET C201A
C0102	260		
C0102	261		
C0102	262		
C0102	263		
C0102	264	PHOTO SMOKE	3RD FL ELEV LOBBY C301
C0102	265	PHOTO SMOKE	3RD FL ELEC CLOSET C301A
C0102	266		
C0102	267		
C0102	268		
C0102	269		
C0102	270	PHOTO SMOKE	4TH FL ELEV LOBBY C401
C0102	271	PHOTO SMOKE	4TH FL ELEC CLOSET C401A
C0102	272		
C0102	273		
C0102	274		
C0102	275		
C0102	276		
C0102	277		
C0102	278		
C0102	279		
C0102	280		
C0102	281		
C0102	282		
C0102	283		
C0102	284		
C0102	285		
C0102	286		
C0102	287		
C0102	288		
C0102	289		
C0102	290		
C0102	291		
C0102	292		
C0102	293		
C0102	294		
C0102	295		
C0102	296		
C0102	297		
C0102	298		
C0102	299		
C0102	300		
C0102	301		
C0102	302		
C0102	303		
C0102	304		
C0102	305		
C0102	306		
C0102	307		
C0102	308		
C0102	309		
C0102	310		
C0102	311		
C0102	312		
C0102	313		
C0102	314		
C0102	315		
C0102	316		
C0102	317		
C0102	318		
C0102	319		
C0102	320		
C0102	321		
C0102	322		
C0102	323		
C0102	324		
C0102	325		
C0102	326		
C0102	327		
C0102	328		
C0102	329		
C0102	330		
C0102	331		
C0102	332		
C0102	333		
C0102	334		
C0102	335		
C0102	336		
C0102	337		
C0102	338		
C0102	339		
C0102	340		
C0102	341		
C0102	342		
C0102	343		
C0102	344		
C0102	345		
C0102	346		
C0102	347		
C0102	348		
C0102	349		
C0102	350		
C0102	351		
C0102	352		
C0102	353		
C0102	354		
C0102	355		
C0102	356		
C0102	357		
C0102	358		
C0102	359		
C0102	360		
C0102	361		
C0102	362		
C0102	363		
C0102	364		
C0102	365		CONTINUES TO ADDRESS 375
C0102	366		
C0102	367		
C0102	368		
C0102	369		
C0102	370		
C0102	371		
C0102	372		
C0102	373		
C0102	374		
C0102	375		

FACP-C1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #2 — MODULE INPUTS/OUTPUTS

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
C0102	376	DUAL INPUT MOD (CT2)	DCVA#1 TAMPER FIRE WTR C110
C0102	377		DCVA#2 TAMPER FIRE WTR C110
C0102	378	DUAL INPUT MOD (CT2)	MAIN VALVE TAMPER FIRE PUMP C121
C0102	379		OS&Y VALVE TAMPER FIRE PUMP C121
C0102	380	DUAL INPUT MOD (CT2)	BYPASS #1 TAMPER FIRE PUMP C121
C0102	381		BYPASS #2 TAMPER FIRE PUMP C121
C0102	382	DUAL INPUT MOD (CT2)	FLOWTEST #1 TAMPER FIRE PUMP C121
C0102	383		FLOWTEST #2 TAMPER FIRE PUMP C121
C0102	384		
C0102	385		
C0102	386	DUAL INPUT MOD (CT2)	STANDPIPE WATERFLOW FIRE PUMP C121
C0102	387		STANDPIPE VALVE TAMPER FIRE PUMP C121
C0102	388		
C0102	389		
C0102	390	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 1C-D-1 PUMP RM C12
C0102	391		VALVE TAMP DRY ZONE 1C-D-1 PUMP RM C121
C0102	392	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 1C-D-1 PUMP RM C121
C0102	393		HIGH AIR PSI DRY ZONE 1C-D-1 PUMP RM C121
C0102	394	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 2C-D-5 PUMP RM C12
C0102	395		VALVE TAMP DRY ZONE 2C-D-5 PUMP RM C121
C0102	396	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 2C-D-5 PUMP RM C121
C0102	397		HIGH AIR PSI DRY ZONE 2C-D-5 PUMP RM C121
C0102	398	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 3C-D-9 PUMP RM C12
C0102	399		VALVE TAMP DRY ZONE 3C-D-9 PUMP RM C121
C0102	400	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 3C-D-9 PUMP RM C121
C0102	401		HIGH AIR PSI DRY ZONE 3C-D-9 PUMP RM C121
C0102	402	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 4C-D-12 PUMP RM C12
C0102	403		VALVE TAMP DRY ZONE 4C-D-12 PUMP RM C12
C0102	404	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 4C-D-12 PUMP RM C12
C0102	405		HIGH AIR PSI DRY ZONE 4C-D-12 PUMP RM C12
C0102	406	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 5C-D-14 PUMP RM C12
C0102	407		VALVE TAMP DRY ZONE 5C-D-14 PUMP RM C12
C0102	408	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 5C-D-14 PUMP RM C12
C0102	409		HIGH AIR PSI DRY ZONE 5C-D-14 PUMP RM C12
C0102	410		
C0102	411	INPUT MODULE (CT1)	WATERTANK FILL VALVE TAMPR PUMP RM C121
C0102	412	DUAL INPUT MOD (CT2)	WATER TANK LOW FIRE WATER STOR C122
C0102	413		WATER TANK HIGH FIRE WATER STOR C122
C0102	414		
C0102	415		
C0102	416	DUAL INPUT MOD (CT2)	FIRE PUMP TROUBLE FIRE PUMP C121
C0102	417		FIRE PUMP NOT IN AUTO FIRE PUMP C121
C0102	418	DUAL INPUT MOD (CT2)	FIRE PUMP POWER FAIL FIRE PUMP C121
C0102	419		FIRE PUMP PHASE REVSERAL FIRE PUMP C121
C0102	420		
C0102	421		
C0102	422	DUAL INPUT MOD (CT2)	GENERATOR TROUBLE C112
C0102	423		GENERATOR RUNNING C112
C0102	424		
C0102	425		
C0102	426	SPEAKER ZONE (CC2A)	SPEAKER CKT SC-1 / MFC-C1 / FCC C102
C0102	427		SPEAKER CKT (SPARE) / MFC-C1 / FCC C102
C0102	428	SPEAKER ZONE (CC2A)	SPEAKER CKT SC-2 / MFC-C1 / FCC C102
C0102	429		SPEAKER CKT (SPARE) / MFC-C1 / FCC C102
C0102	430	SPEAKER ZONE (CC2A)	SPEAKER CKT SC-3 / MFC-C1 / FCC C102
C0102	431		SPEAKER CKT (SPARE) / MFC-C1 / FCC C102
C0102	432	SPEAKER ZONE (CC2A)	SPEAKER CKT SC-4 / MFC-C1 / FCC C102
C0102	433		SPEAKER CKT (SPARE) / MFC-C1 / FCC C102
C0102	434	SPEAKER ZONE (CC2A)	SPEAKER CKT SC-5 / MFC-C1 / FCC C102
C0102	435		SPEAKER CKT (SPARE) / MFC-C1 / FCC C102
C0102	436		
C0102	437		
C0102	438	SPEAKER ZONE (CC2A)	SPEAKER CKT SC1-1 / MFC-C2 / FCC C102
C0102	439		SPEAKER CKT (SPARE) / MFC-C2 / FCC C102
C0102	440	SPEAKER ZONE (CC2A)	SPEAKER CKT SC1-2 / MFC-C2 / FCC C102
C0102	441		SPEAKER CKT (SPARE) / MFC-C2 / FCC C102
C0102	442	SPEAKER ZONE (CC2A)	SPEAKER CKT SC1-3 / MFC-C2 / FCC C102
C0102	443		SPEAKER CKT (SPARE) / MFC-C2 / FCC C102
C0102	444	SPEAKER ZONE (CC2A)	SPEAKER CKT SC2-1 / MFC-C2 / FCC C102
C0102	445		SPEAKER CKT (SPARE) / MFC-C2 / FCC C102
C0102	446	SPEAKER ZONE (CC2A)	SPEAKER CKT SC2-2 / MFC-C2 / FCC C102
C0102	447		SPEAKER CKT (SPARE) / MFC-C2 / FCC C102
C0102	448	SPEAKER ZONE (CC2A)	SPEAKER CKT SC2-3 / MFC-C2 / FCC C102
C0102	449		SPEAKER CKT (SPARE) / MFC-C2 / FCC C102
C0102	450	SPEAKER ZONE (CC2A)	SPEAKER CKT SC3-1 / MFC-C3 / FCC C102
C0102	451		SPEAKER CKT (SPARE) / MFC-C3 / FCC C102
C0102	452	SPEAKER ZONE (CC2A)	SPEAKER CKT SC3-2 / MFC-C3 / FCC C102
C0102	453		SPEAKER CKT (SPARE) / MFC-C3 / FCC C102
C0102	454	SPEAKER ZONE (CC2A)	SPEAKER CKT SC4-1 / MFC-C3 / FCC C102
C0102	455		SPEAKER CKT (SPARE) / MFC-C3 / FCC C102
C0102	456	SPEAKER ZONE (CC2A)	SPEAKER CKT SC4-2 / MFC-C3 / FCC C102
C0102	457		SPEAKER CKT (SPARE) / MFC-C3 / FCC C102
C0102	458		
C0102	459		
C0102	460		
C0102	461		
C0102	462	DUAL INPUT MOD (CT2)	TWO WAY COMM TELCO TBL FCC C102
C0102	463		TWO WAY COMM POWER TBL FCC C102
C0102	464		
C0102	465		
C0102	466	DUAL INPUT MOD (CT2)	DAS AC FAIL FCC C102
C0102	467		DAS CHARGER FAIL FCC C102
C0102	468	DUAL INPUT MOD (CT2)	DAS ANTENNA FAIL FCC C102
C0102	469		DAS BOOSTER FAIL FCC C102
C0102	470	DUAL INPUT MOD (CT2)	DAS BATTERY FAIL FCC C102
C0102	471		DAS (SPARE) FCC C102
C0102	472		
C0102	473		
C0102	474	OUTPUT MODULE (CRH)	4TH FL FSD CONTROL ELEC CLOSET C401A
C0102	475		
C0102	476		
C0102	477		
C0102	478		
C0102	479		
C0102	480		
C0102	481		
C0102	482		
C0102	483		
C0102	484		
C0102	485		
C0102	486		
C0102	487		
C0102	488		
C0102	489		
C0102	490		CONTINUES TO ADDRESS 500
C0102	491		
C0102	492		
C0102	493		
C0102	494		
C0102	495		
C0102	496		
C0102	497		
C0102	498		
C0102	499		
C0102	500		

FACP-C2 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — DETECTOR INPUTS

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
C0202	001	PHOTO SMOKE	5TH FL ELEV LOBBY C501
C0202	002	PHOTO SMOKE	5TH FL ELEC CLOSET C501A
C0202	003	PHOTO SMOKE	5TH FL ELEV CTRL RM C504
C0202	004	HEAT DETECT.	5TH FL ELEV CTRL RM C504
C0202	005	HEAT DETECT.	5TH FL ELEV CTRL RM C504
C0202	006	DUCT DETECT.	5TH FL FSD AT DOAS-1
C0202	007	DUCT DETECT.	5TH FL FSD AT DOAS-1
C0202	008	DUCT DETECT.	5TH FL FSD AT DOAS-2
C0202	009	DUCT DETECT.	5TH FL FSD AT DOAS-2
C0202	010		
C0202	011		
C0202	012		
C0202	013		
C0202	014		
C0202	015		
C0202	016	PHOTO SMOKE	6TH FL ELEV LOBBY C601
C0202	017	PHOTO SMOKE	6TH FL ELEC CLOSET C601A
C0202	018	DUCT DETECT.	6TH FL FSD AT ELEC CLOSET C607
C0202	019	DUCT DETECT.	6TH FL FSD AT ELEC CLOSET C607
C0202	020		
C0202	021		
C0202	022		
C0202	023		
C0202	024	PHOTO SMOKE	7TH FL ELEV LOBBY C701
C0202	025	PHOTO SMOKE	7TH FL ELEC CLOSET C701A
C0202	026	DUCT DETECT.	7TH FL FSD AT ELEC CLOSET C707
C0202	027	DUCT DETECT.	7TH FL FSD AT ELEC CLOSET C707
C0202	028		
C0202	029		
C0202	030		
C0202	031		
C0202	032	PHOTO SMOKE	8TH FL ELEV LOBBY C801
C0202	033	PHOTO SMOKE	8TH FL ELEC CLOSET C801A
C0202	034	DUCT DETECT.	8TH FL FSD AT ELEC CLOSET C807
C0202	035	DUCT DETECT.	8TH FL FSD AT ELEC CLOSET C807
C0202	036		
C0202	037		
C0202	038		
C0202	039		
C0202	040	PHOTO SMOKE	9TH FL ELEV LOBBY C901
C0202	041	PHOTO SMOKE	9TH FL ELEC CLOSET C901A
C0202	042		
C0202	043		
C0202	044		
C0202	045		
C0202	046	PHOTO SMOKE	10TH FL ELEV LOBBY C1001
C0202	047	PHOTO SMOKE	10TH FL ELEC CLOSET C1001A
C0202	048	PHOTO SMOKE	TOP OF ELEV CE-1 HOISTWAY
C0202	049	HEAT DETECT.	TOP OF ELEV CE-1 HOISTWAY
C0202	050	HEAT DETECT.	TOP OF ELEV CE-1 HOISTWAY
C0202	051		
C0202	052	PHOTO SMOKE	TOP OF ELEV CE-2 HOISTWAY
C0202	053	HEAT DETECT.	TOP OF ELEV CE-2 HOISTWAY
C0202	054	HEAT DETECT.	TOP OF ELEV CE-2 HOISTWAY
C0202	055		
C0202	056	DUCT DETECT.	10TH FL FSD AT ELEC CLOS C1007
C0202	057	DUCT DETECT.	10TH FL FSD AT ELEC CLOS C1007
C0202	058		
C0202	059		
C0202	060		
C0202	061		
C0202	062		
C0202	063		
C0202	064		
C0202	065		
C0202	066		
C0202	067		
C0202	068		
C0202	069		
C0202	070		
C0202	071		
C0202	072		
C0202	073		
C0202	074		
C0202	075		
C0202	076		
C0202	077		
C0202	078		
C0202	079		
C0202	080		
C0202	081		
C0202	082		
C0202	083		
C0202	084		
C0202	085		
C0202	086		
C0202	087		
C0202	088		
C0202	089		
C0202	090		
C0202	091		
C0202	092		
C0202	093		
C0202	094		
C0202	095		
C0202	096		
C0202	097		
C0202	098		
C0202	099		
C0202	100		ADDRESSES CONTINUE TO 125
C0202	101		
C0202	102		
C0202	103		
C0202	104		
C0202	105		
C0202	106		
C0202	107		
C0202	108		
C0202	109		
C0202	110		
C0202	111		
C0202	112		
C0202	113		
C0202	114		
C0202	115		
C0202	116		
C0202	117		
C0202	118		
C0202	119		
C0202	120		
C0202	121		
C0202	122		
C0202	123		
C0202	124		
C0202	125		

FACP-C2 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — MODULE INPUTS/OUTPUTS

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
C0202	126	SPEAKER ZONE (CC2A)	SPEAKER CKT SC5-1 / MFC-C4 / ELEC C601A
C0202	127		SPEAKER CKT (SPARE) / MFC-C4 / ELEC C601A
C0202	128	SPEAKER ZONE (CC2A)	SPEAKER CKT SC5-2 / MFC-C4 / ELEC C601A
C0202	129		SPEAKER CKT (SPARE) / MFC-C4 / ELEC C601A
C0202	130	SPEAKER ZONE (CC2A)	SPEAKER CKT SC6-1 / MFC-C4 / ELEC C601A
C0202	131		SPEAKER CKT (SPARE) / MFC-C4 / ELEC C601A
C0202	132	SPEAKER ZONE (CC2A)	SPEAKER CKT SC6-2 / MFC-C4 / ELEC C601A
C0202	133		SPEAKER CKT (SPARE) / MFC-C4 / ELEC C601A
C0202	134	SPEAKER ZONE (CC2A)	SPEAKER CKT SC7-1 / MFC-C4 / ELEC C601A
C0202	135		SPEAKER CKT (SPARE) / MFC-C4 / ELEC C601A
C0202	136	SPEAKER ZONE (CC2A)	SPEAKER CKT SC7-2 / MFC-C4 / ELEC C601A
C0202	137		SPEAKER CKT (SPARE) / MFC-C4 / ELEC C601A
C0202	138	SPEAKER ZONE (CC2A)	SPEAKER CKT SC8-1 / MFC-C5 / ELEC C901A
C0202	139		SPEAKER CKT (SPARE) / MFC-C5 / ELEC C901A
C0202	140	SPEAKER ZONE (CC2A)	SPEAKER CKT SC8-2 / MFC-C5 / ELEC C901A
C0202	141		SPEAKER CKT (SPARE) / MFC-C5 / ELEC C901A
C0202	142	SPEAKER ZONE (CC2A)	SPEAKER CKT SC9-1 / MFC-C5 / ELEC C901A
C0202	143		SPEAKER CKT (SPARE) / MFC-C5 / ELEC C901A
C0202	144	SPEAKER ZONE (CC2A)	SPEAKER CKT SC9-2 / MFC-C5 / ELEC C901A
C0202	145		SPEAKER CKT (SPARE) / MFC-C5 / ELEC C901A
C0202	146	SPEAKER ZONE (CC2A)	SPEAKER CKT SC10-1 / MFC-C5 / ELEC C901A
C0202	147		SPEAKER CKT (SPARE) / MFC-C5 / ELEC C901A
C0202	148	SPEAKER ZONE (CC2A)	SPEAKER CKT SC10-2 / MFC-C5 / ELEC C901A
C0202	149		SPEAKER CKT (SPARE) / MFC-C5 / ELEC C901A
C0202	150		
C0202	151		
C0202	152		
C0202	153		
C0202	154	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV C-1(1) ELEV CTRL C504
C0202	155	OUTPUT MODULE (CR)	ALT RECALL ELEV C-1(1) ELEV CTRL C504
C0202	156	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV C-1(1) ELEV CTRL C504
C0202	157	OUTPUT MODULE (CR)	SHUNT TRIP ELEV C-1(1) ELEV CTRL C504
C0202	158	INPUT MODULE (CT1)	S/T PWR SUPV ELEV C-1(1) ELEV CTRL C504
C0202	159		
C0202	160	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV C-1(2) ELEV CTRL C504
C0202	161	OUTPUT MODULE (CR)	ALT RECALL ELEV C-1(2) ELEV CTRL C504
C0202	162	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV C-1(2) ELEV CTRL C504
C0202	163	OUTPUT MODULE (CR)	SHUNT TRIP ELEV C-1(2) ELEV CTRL C504
C0202	164	INPUT MODULE (CT1)	S/T PWR SUPV ELEV C-1(2) ELEV CTRL C504
C0202	165		
C0202	166	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV C-2(1) ELEV CTRL C504
C0202	167	OUTPUT MODULE (CR)	ALT RECALL ELEV C-2(1) ELEV CTRL C504
C0202	168	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV C-2(1) ELEV CTRL C504
C0202	169	OUTPUT MODULE (CR)	SHUNT TRIP ELEV C-2(1) ELEV CTRL C504
C0202	170	INPUT MODULE (CT1)	S/T PWR SUPV ELEV C-2(1) ELEV CTRL C504
C0202	171		
C0202	172	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV C-2(2) ELEV CTRL C504
C0202	173	OUTPUT MODULE (CR)	ALT RECALL ELEV C-2(2) ELEV CTRL C504
C0202	174	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV C-2(2) ELEV CTRL C504
C0202	175	OUTPUT MODULE (CR)	SHUNT TRIP ELEV C-2(2) ELEV CTRL C504
C0202	176	INPUT MODULE (CT1)	S/T PWR SUPV ELEV C-2(2) ELEV CTRL C504
C0202	177		
C0202	178		
C0202	179		
C0202	180	OUTPUT MODULE (CR)	DOAS-1 SHUTDOWN - 5TH FL BLOCK C
C0202	181	OUTPUT MODULE (CR)	DOAS-2 SHUTDOWN - 5TH FL BLOCK C
C0202	182		
C0202	183		
C0202	184	OUTPUT MODULE (CRH)	FSD CONTROL LVL 6-10 ELEC CLOSET C601A
C0202	185		
C0202	186		
C0202	187		
C0202	188		
C0202	189		
C0202	190	OUTPUT MODULE (CR)	6TH FL SMOKE CURTAIN ELEV C-1 (1&2)
C0202	191	OUTPUT MODULE (CR)	6TH FL SMOKE CURTAIN ELEV C-2 (1&2)
C0202	192	OUTPUT MODULE (CR)	7TH FL SMOKE CURTAIN ELEV C-1 (1&2)
C0202	193	OUTPUT MODULE (CR)	7TH FL SMOKE CURTAIN ELEV C-2 (1&2)
C0202	194	OUTPUT MODULE (CR)	8TH FL SMOKE CURTAIN ELEV C-1 (1&2)
C0202	195	OUTPUT MODULE (CR)	8TH FL SMOKE CURTAIN ELEV C-2 (1&2)
C0202	196	OUTPUT MODULE (CR)	9TH FL SMOKE CURTAIN ELEV C-1 (1&2)
C0202	197	OUTPUT MODULE (CR)	9TH FL SMOKE CURTAIN ELEV C-2 (1&2)
C0202	198	OUTPUT MODULE (CR)	10TH FL SMOKE CURTAIN ELEV C-1 (1&2)
C0202	199	OUTPUT MODULE (CR)	10TH FL SMOKE CURTAIN ELEV C-2 (1&2)
C0202	200		
C0202	201		
C0202	202		
C0202	203		
C0202	204		
C0202	205		
C0202	206		
C0202	207		
C0202	208		
C0202	209		
C0202	210		
C0202	211		
C0202	212		
C0202	213		
C0202	214		
C0202	215		
C0202	216		
C0202	217		
C0202	218		
C0202	219		
C0202	220		
C0202	221		
C0202	222		
C0202	223		
C0202	224		
C0202	225		ADDRESSES CONTINUE TO 250
C0202	226		
C0202	227		
C0202	228		
C0202	229		
C0202	230		
C0202	231		
C0202	232		
C0202	233		
C0202	234		
C0202	235		
C0202	236		
C0202	237		
C0202	238		
C0202	239		
C0202	240		
C0202	241		
C0202	242		
C0202	243		
C0202	244		
C0202	245		
C0202	246		
C0202	247		
C0202	248		
C0202	249		
C0202	250		

FACP-A1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — **DETECTOR INPUTS**

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
A0102	001	PHOTO SMOKE	FCC A107
A0102	002	PHOTO SMOKE	1ST FL STAIR A1 ENTRY
A0102	003	PHOTO SMOKE	1ST FL STAIR A2 ENTRY
A0102	004		
A0102	005		
A0102	006		
A0102	007		
A0102	008		
A0102	009		
A0102	010		
A0102	011	HEAT DETECT.	2ND FL STAIR A1 ENTRY
A0102	012	PHOTO SMOKE	2ND FL STAIR A1 LANDING
A0102	013	HEAT DETECT.	2ND FL STAIR A2 ENTRY
A0102	014	PHOTO SMOKE	2ND FL STAIR A2 LANDING
A0102	015		
A0102	016		
A0102	017		
A0102	018		
A0102	019		
A0102	020		
A0102	021	HEAT DETECT.	3RD FL STAIR A1 ENTRY
A0102	022	PHOTO SMOKE	3RD FL STAIR A1 LANDING
A0102	023	DUCT DETECT.	SPF-1A1 SUPPLY
A0102	024	HEAT DETECT.	3RD FL STAIR A2 ENTRY
A0102	025	PHOTO SMOKE	3RD FL STAIR A2 LANDING
A0102	026		
A0102	027		
A0102	028		
A0102	029		
A0102	030		
A0102	031	HEAT DETECT.	4TH FL STAIR A1 ENTRY
A0102	032	PHOTO SMOKE	4TH FL STAIR A1 LANDING
A0102	033	HEAT DETECT.	4TH FL STAIR A2 ENTRY
A0102	034	PHOTO SMOKE	4TH FL STAIR A2 LANDING
A0102	035		
A0102	036		
A0102	037		
A0102	038		
A0102	039		
A0102	040		
A0102	041	HEAT DETECT.	5TH FL STAIR A1 ENTRY
A0102	042	PHOTO SMOKE	5TH FL STAIR A1 LANDING
A0102	043	HEAT DETECT.	5TH FL STAIR A2 ENTRY
A0102	044	PHOTO SMOKE	5TH FL STAIR A2 LANDING
A0102	045	DUCT DETECT.	SPF-1A2 SUPPLY
A0102	046		
A0102	047		
A0102	048		
A0102	049		
A0102	050		
A0102	051	PHOTO SMOKE	6TH FL STAIR A1 ENTRY
A0102	052	PHOTO SMOKE	6TH FL STAIR A2 ENTRY
A0102	053		
A0102	054		
A0102	055		
A0102	056		
A0102	057		
A0102	058		
A0102	059		
A0102	060		
A0102	061	PHOTO SMOKE	7TH FL STAIR A1 ENTRY
A0102	062	PHOTO SMOKE	7TH FL STAIR A2 VESTIBULE
A0102	063	PHOTO SMOKE	7TH FL STAIR A2 VEST W ENTRY
A0102	064	PHOTO SMOKE	7TH FL STAIR A2 VEST E ENTRY
A0102	065		
A0102	066		
A0102	067		
A0102	068		
A0102	069		
A0102	070		
A0102	071	PHOTO SMOKE	8TH FL STAIR A1 ENTRY
A0102	072	PHOTO SMOKE	8TH FL STAIR A2 ENTRY
A0102	073		
A0102	074		
A0102	075		
A0102	076		
A0102	077		
A0102	078		
A0102	079		
A0102	080		
A0102	081		
A0102	082		
A0102	083		
A0102	084		
A0102	085		
A0102	086		
A0102	087		
A0102	088		
A0102	089		
A0102	090		
A0102	091		
A0102	092		
A0102	093		
A0102	094		
A0102	095		
A0102	096		
A0102	097		
A0102	098		
A0102	099		
A0102	100		
A0102	101		
A0102	102		
A0102	103		
A0102	104		
A0102	105		
A0102	106		
A0102	107		
A0102	108		
A0102	109		
A0102	110		
A0102	111		
A0102	112		
A0102	113		
A0102	114		
A0102	115		
A0102	116		
A0102	117		
A0102	118		
A0102	119		
A0102	120		
A0102	121		
A0102	122		
A0102	123		
A0102	124		
A0102	125		

FACP-A1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — **MODULE INPUTS/OUTPUTS**

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
A0102	126	PULL STATION	FCC A107
A0102	127	OUTPUT MODULE (CR)	OUTPUT TO BMS FOR GARAGE FAN CONTROL
A0102	128		
A0102	129		
A0102	130		
A0102	131	OUTPUT MODULE (CRH)	PRESS. FAN SPF-1A1 CONTROL
A0102	132	DUAL INPUT MOD (CT2)	PRESS. FAN SPF-1A1 ON-OFF STATUS
A0102	133		PRESS. FAN SPF-1A1 FAULT
A0102	134	OUTPUT MODULE (CRH)	MOTOR DAMPER MD-3 CONTROL
A0102	135	DUAL INPUT MOD (CT2)	MOTOR DAMPER MD-3 OPEN STATUS
A0102	136		MOTOR DAMPER MD-3 CLOSED STATUS
A0102	137		
A0102	138		
A0102	139		
A0102	140		
A0102	141	OUTPUT MODULE (CRH)	PRESS. FAN SPF-1A2 CONTROL
A0102	142	DUAL INPUT MOD (CT2)	PRESS. FAN SPF-1A2 ON-OFF STATUS
A0102	143		PRESS. FAN SPF-1A2 FAULT
A0102	144	OUTPUT MODULE (CRH)	MOTOR DAMPER MD-4 CONTROL
A0102	145	DUAL INPUT MOD (CT2)	MOTOR DAMPER MD-4 OPEN STATUS
A0102	146		MOTOR DAMPER MD-4 CLOSED STATUS
A0102	147		
A0102	148		
A0102	149		
A0102	150	DUAL INPUT MOD (CT2)	TWO WAY COMM TELCO TBL FCC A107
A0102	151		TWO WAY COMM POWER TBL FCC A107
A0102	152		
A0102	153		
A0102	154	DUAL INPUT MOD (CT2)	DAS AC FAIL FCC A107
A0102	155		DAS CHARGER FAIL FCC A107
A0102	156	DUAL INPUT MOD (CT2)	DAS ANTENNA FAIL FCC A107
A0102	157		DAS BOOSTER FAIL FCC A107
A0102	158	DUAL INPUT MOD (CT2)	DAS BATTERY FAIL FCC A107
A0102	159		DAS (SPARE) FCC A107
A0102	160		
A0102	161		
A0102	162		
A0102	163		
A0102	164	DUAL INPUT MOD (CT2)	WATERFLOW- 1ST FL STAIR A1
A0102	165		VALVE TAMPER - 1ST FL STAIR A1
A0102	166	DUAL INPUT MOD (CT2)	WATERFLOW- 2ND FL STAIR A1
A0102	167		VALVE TAMPER - 2ND FL STAIR A1
A0102	168	DUAL INPUT MOD (CT2)	WATERFLOW- 3RD FL STAIR A1
A0102	169		VALVE TAMPER - 3RD FL STAIR A1
A0102	170		
A0102	171		
A0102	172		
A0102	173		
A0102	174	DUAL INPUT MOD (CT2)	WATERFLOW- 6TH FL STAIR A1
A0102	175		VALVE TAMPER - 6TH FL STAIR A1
A0102	176	DUAL INPUT MOD (CT2)	WATERFLOW- 7TH FL STAIR A1
A0102	177		VALVE TAMPER - 7TH FL STAIR A1
A0102	178	DUAL INPUT MOD (CT2)	WATERFLOW- 7TH FL STAIR A1
A0102	179		VALVE TAMPER - 7TH FL STAIR A1
A0102	180	DUAL INPUT MOD (CT2)	WATERFLOW- 8TH FL STAIR A1
A0102	181		VALVE TAMPER - 8TH FL STAIR A1
A0102	182	DUAL INPUT MOD (CT2)	WATERFLOW- 9TH FL STAIR A1
A0102	183		VALVE TAMPER - 9TH FL STAIR A1
A0102	184		
A0102	185		
A0102	186		
A0102	187		
A0102	188		
A0102	189		
A0102	190		
A0102	191		
A0102	192		
A0102	193		
A0102	194		
A0102	195		ADDRESSES CONTINUE TO 250
A0102	196		
A0102	197		
A0102	198		
A0102	199		
A0102	200		
A0102	201		
A0102	202		
A0102	203		
A0102	204		
A0102	205		
A0102	206		
A0102	207		
A0102	208		
A0102	209		
A0102	210		
A0102	211		
A0102	212		
A0102	213		
A0102	214		
A0102	215		
A0102	216		
A0102	217		
A0102	218		
A0102	219		
A0102	220		
A0102	221		
A0102	222		
A0102	223		
A0102	224		
A0102	225		
A0102	226		
A0102	227		
A0102	228		
A0102	229		
A0102	230		
A0102	231		
A0102	232		
A0102	233		
A0102	234		
A0102	235		
A0102	236		
A0102	237		
A0102	238		
A0102	239		
A0102	240		
A0102	241		
A0102	242		
A0102	243		
A0102	244		
A0102	245		
A0102	246		
A0102	247		
A0102	248		
A0102	249		
A0102	250		

FACP-A1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #2 — **DETECTOR INPUTS**

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
A0102	251	PHOTO SMOKE	1ST FL ELEV LOBBY A108
A0102	252	PHOTO SMOKE	1ST FL ELEV LOBBY A109
A0102	253	PHOTO SMOKE	1ST FL ELEC CLOSET A108A
A0102	254		
A0102	255		
A0102	256		
A0102	257		
A0102	258		
A0102	259		
A0102	260	PHOTO SMOKE	2ND FL ELEV LOBBY A201
A0102	261	HEAT DETECT.	2ND FL ELEV A-3 PKG SIDE
A0102	262	PHOTO SMOKE	2ND FL ELEC CLOSET A201A
A0102	263		
A0102	264		
A0102	265		
A0102	266		
A0102	267		
A0102	268		
A0102	269		
A0102	270	PHOTO SMOKE	3RD FL ELEV LOBBY A301
A0102	271	HEAT DETECT.	3RD FL ELEV A-3 PKG SIDE
A0102	272	PHOTO SMOKE	3RD FL ELEC CLOSET A301A
A0102	273		
A0102	274		
A0102	275		
A0102	276		
A0102	277		
A0102	278	PHOTO SMOKE	4TH FL ELEV LOBBY A401
A0102	279	HEAT DETECT.	4TH FL ELEV A-3 PKG SIDE
A0102	280	PHOTO SMOKE	4TH FL ELEC CLOSET A401A
A0102	281		
A0102	282		
A0102	283		
A0102	284		
A0102	285		
A0102	286		
A0102	287		
A0102	288		
A0102	289		
A0102	290		
A0102	291		
A0102	292		
A0102	293		
A0102	294		
A0102	295		
A0102	296		
A0102	297		
A0102	298		
A0102	299		
A0102	300		
A0102	301		
A0102	302		
A0102	303		
A0102	304		
A0102	305		
A0102	306		
A0102	307		
A0102	308		
A0102	309		
A0102	310		
A0102	311		
A0102	312		
A0102	313		
A0102	314		
A0102	315		
A0102	316		
A0102	317		
A0102	318		
A0102	319		
A0102	320		
A0102	321		
A0102	322		
A0102	323		
A0102	324		
A0102	325		
A0102	326		
A0102	327		
A0102	328		
A0102	329		
A0102	330		
A0102	331		
A0102	332		
A0102	333		
A0102	334		
A0102	335		
A0102	336		
A0102	337		
A0102	338		
A0102	339		
A0102	340		
A0102	341		
A0102	342		
A0102	343		
A0102	344		
A0102	345		
A0102	346		
A0102	347		
A0102	348		
A0102	349		
A0102	350		
A0102	351		
A0102	352		
A0102	353		
A0102	354		
A0102	355		
A0102	356		
A0102	357		
A0102	358		
A0102	359		
A0102	360		
A0102	361		
A0102	362		
A0102	363		
A0102	364		
A0102	365		
A0102	366		
A0102	367		
A0102	368		
A0102	369		
A0102	370		
A0102	371		
A0102	372		
A0102	373		
A0102	374		
A0102	375		

FACP-A1 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #2 — **MODULE INPUTS/OUTPUTS**

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
A0102	376	DUAL INPUT MOD (CT2)	MAIN VALVE TAMPER FIRE PUMP A117
A0102	377		OS&Y VALVE TAMPER FIRE PUMP A117
A0102	378	DUAL INPUT MOD (CT2)	BYPASS #1 TAMPER FIRE PUMP A117
A0102	379		BYPASS #2 TAMPER FIRE PUMP A117
A0102	380	DUAL INPUT MOD (CT2)	FLOWTEST #1 TAMPER FIRE PUMP A117
A0102	381		FLOWTEST #2 TAMPER FIRE PUMP A117
A0102	382		
A0102	383		
A0102	384	DUAL INPUT MOD (CT2)	STANDPIPE WATERFLOW FIRE PUMP A117
A0102	385		STANDPIPE VALVE TAMPER FIRE PUMP A117
A0102	386		
A0102	387		
A0102	388	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 1A-D-3 PUMP RM A117
A0102	389		VALVE TAMP DRY ZONE 1A-D-3 PUMP RM A117
A0102	390	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 1A-D-3 PUMP RM A117
A0102	391		HIGH AIR PSI DRY ZONE 1A-D-3 PUMP RM A117
A0102	392	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 2A-D-7 PUMP RM A117
A0102	393		VALVE TAMP DRY ZONE 2A-D-7 PUMP RM A117
A0102	394	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 2A-D-7 PUMP RM A117
A0102	395		HIGH AIR PSI DRY ZONE 2A-D-7 PUMP RM A117
A0102	396	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 3A-D-11 PUMP RM A117
A0102	397		VALVE TAMP DRY ZONE 3A-D-11 PUMP RM A117
A0102	398	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 3A-D-11 PUMP RM A117
A0102	399		HIGH AIR PSI DRY ZONE 3A-D-11 PUMP RM A117
A0102	400	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 4A-D-13 PUMP RM A117
A0102	401		VALVE TAMP DRY ZONE 4A-D-13 PUMP RM A117
A0102	402	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 4A-D-13 PUMP RM A117
A0102	403		HIGH AIR PSI DRY ZONE 4A-D-13 PUMP RM A117
A0102	404	DUAL INPUT MOD (CT2)	WATERFLOW DRY ZONE 5A-D-15 PUMP RM A117
A0102	405		VALVE TAMP DRY ZONE 5A-D-15 PUMP RM A117
A0102	406	DUAL INPUT MOD (CT2)	LOW AIR PSI DRY ZONE 5A-D-15 PUMP RM A117
A0102	407		HIGH AIR PSI DRY ZONE 5A-D-15 PUMP RM A117
A0102	408		
A0102	409	INPUT MODULE (CT1)	WATERTANK FILL VALVE TAMPR PUMP RM A117
A0102	410	DUAL INPUT MOD (CT2)	WATER TANK LOW FIRE WATER STOR A116
A0102	411		WATER TANK HIGH FIRE WATER STOR A116
A0102	412		
A0102	413		
A0102	414	DUAL INPUT MOD (CT2)	FIRE PUMP TROUBLE FIRE PUMP A117
A0102	415		FIRE PUMP NOT IN AUTO FIRE PUMP A117
A0102	416	DUAL INPUT MOD (CT2)	FIRE PUMP POWER FAIL FIRE PUMP A117
A0102	417		FIRE PUMP PHASE REVSERAL FIRE PUMP A117
A0102	418		
A0102	419		
A0102	420	DUAL INPUT MOD (CT2)	GENERATOR TROUBLE A120
A0102	421		GENERATOR RUNNING A120
A0102	422		
A0102	423		
A0102	424	SPEAKER ZONE (CC2A)	SPEAKER CKT SA-1 / MFC-A1 / FCC A107
A0102	425		SPEAKER CKT (SPARE) / MFC-A1 / FCC A107
A0102	426	SPEAKER ZONE (CC2A)	SPEAKER CKT SA-2 / MFC-A1 / FCC A107
A0102	427		SPEAKER CKT (SPARE) / MFC-A1 / FCC A107
A0102	428	SPEAKER ZONE (CC2A)	SPEAKER CKT SA-3 / MFC-A1 / FCC A107
A0102	429		SPEAKER CKT (SPARE) / MFC-A1 / FCC A107
A0102	430	SPEAKER ZONE (CC2A)	SPEAKER CKT SA1-1 / MFC-A1 / FCC A107
A0102	431		SPEAKER CKT (SPARE) / MFC-A1 / FCC A107
A0102	432	SPEAKER ZONE (CC2A)	SPEAKER CKT SA1-2 / MFC-A1 / FCC A107
A0102	433		SPEAKER CKT (SPARE) / MFC-A1 / FCC A107
A0102	434	SPEAKER ZONE (CC2A)	SPEAKER CKT SA1-3 / MFC-A1 / FCC A107
A0102	435		SPEAKER CKT (SPARE) / MFC-A1 / FCC A107
A0102	436	SPEAKER ZONE (CC2A)	SPEAKER CKT SA2-1 / MFC-A2 / FCC A107
A0102	437		SPEAKER CKT (SPARE) / MFC-A2 / FCC A107
A0102	438	SPEAKER ZONE (CC2A)	SPEAKER CKT SA2-2 / MFC-A2 / FCC A107
A0102	439		SPEAKER CKT (SPARE) / MFC-A2 / FCC A107
A0102	440	SPEAKER ZONE (CC2A)	SPEAKER CKT SA2-3 / MFC-A2 / FCC A107
A0102	441		SPEAKER CKT (SPARE) / MFC-A2 / FCC A107
A0102	442	SPEAKER ZONE (CC2A)	SPEAKER CKT SA3-1 / MFC-A2 / FCC A107
A0102	443		SPEAKER CKT (SPARE) / MFC-A2 / FCC A107
A0102	444	SPEAKER ZONE (CC2A)	SPEAKER CKT SA3-2 / MFC-A2 / FCC A107
A0102	445		SPEAKER CKT (SPARE) / MFC-A2 / FCC A107
A0102	446		
A0102	447		
A0102	448	SPEAKER ZONE (CC2A)	SPEAKER CKT SA4-1 / MFC-A3 / FCC A107
A0102	449		SPEAKER CKT (SPARE) / MFC-A3 / FCC A107
A0102	450	SPEAKER ZONE (CC2A)	SPEAKER CKT SA4-2 / MFC-A3 / FCC A107
A0102	451		SPEAKER CKT (SPARE) / MFC-A3 / FCC A107
A0102	452	SPEAKER ZONE (CC2A)	SPEAKER CKT SA5-1 / MFC-A3 / FCC A107
A0102	453		SPEAKER CKT (SPARE) / MFC-A3 / FCC A107
A0102	454	SPEAKER ZONE (CC2A)	SPEAKER CKT SA5-2 / MFC-A3 / FCC A107
A0102	455		SPEAKER CKT (SPARE) / MFC-A3 / FCC A107
A0102	456		
A0102	457		
A0102	458		
A0102	459		
A0102	460	SYNC SIGNAL MOD (CC1S)	NAC1 TRIP/SYNC FCC C102
A0102	461	SYNC SIGNAL MOD (CC1S)	NAC2 TRIP/SYNC FCC A107
A0102	462	SYNC SIGNAL MOD (CC1S)	NAC3 TRIP/SYNC ELEC CLOSET C201A
A0102	463	SYNC SIGNAL MOD (CC1S)	NAC4 TRIP/SYNC ELEC CLOSET A201A
A0102	464	SYNC SIGNAL MOD (CC1S)	NAC5-1,-2 TRIP/SYNC ELEC CLOSET C301A
A0102	465	SYNC SIGNAL MOD (CC1S)	NAC5-3,-4 TRIP/SYNC ELEC CLOSET C301A
A0102	466	SYNC SIGNAL MOD (CC1S)	NAC6-1,-2 TRIP/SYNC ELEC CLOSET A301A
A0102	467	SYNC SIGNAL MOD (CC1S)	NAC6-3,-4 TRIP/SYNC ELEC CLOSET A301A
A0102	468	SYNC SIGNAL MOD (CC1S)	NAC7 TRIP/SYNC ELEC CLOSET C501A
A0102	469	SYNC SIGNAL MOD (CC1S)	NAC8 TRIP/SYNC ELEC CLOSET A502A
A0102	470	SYNC SIGNAL MOD (CC1S)	NAC9 TRIP/SYNC ELEC CLOSET C601A
A0102	471	SYNC SIGNAL MOD (CC1S)	NAC10 TRIP/SYNC ELEC CLOSET A601A
A0102	472	SYNC SIGNAL MOD (CC1S)	NAC11 TRIP/SYNC ELEC CLOSET C701A
A0102	473	SYNC SIGNAL MOD (CC1S)	NAC12 TRIP/SYNC ELEC CLOSET A701A
A0102	474	SYNC SIGNAL MOD (CC1S)	NAC13 TRIP/SYNC ELEC CLOSET C801A
A0102	475	SYNC SIGNAL MOD (CC1S)	NAC14 TRIP/SYNC ELEC CLOSET A801A
A0102	476	SYNC SIGNAL MOD (CC1S)	NAC15 TRIP/SYNC ELEC CLOSET C901A
A0102	477	SYNC SIGNAL MOD (CC1S)	NAC16 TRIP/SYNC ELEC CLOSET A901A
A0102	478	SYNC SIGNAL MOD (CC1S)	NAC17 TRIP/SYNC ELEC CLOSET C1001A
A0102	479		
A0102	480		
A0102	481		
A0102	482		
A0102	483		
A0102	484		
A0102	485		
A0102	486		
A0102	487		
A0102	488		
A0102	489		
A0102	490	OUTPUT MODULE (CR)	2ND FL SMOKE CURTAIN ELEV A-3 PKG SIDE
A0102	491	OUTPUT MODULE (CR)	3RD FL SMOKE CURTAIN ELEV A-3 PKG SIDE
A0102	492	OUTPUT MODULE (CR)	4TH FL SMOKE CURTAIN ELEV A-3 PKG SIDE
A0102	493		
A0102	494	OUTPUT MODULE (CR)	DOAS-3 SHUTDOWN - 4TH FL BLOCK A
A0102	495		
A0102	496		
A0102	497		
A0102	498		
A0102	499		
A0102	500		

FACP-A2 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — **DETECTOR INPUTS**

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
A0202	001	PHOTO SMOKE	5TH FL ELEV LOBBY A502
A0202	002	PHOTO SMOKE	5TH FL ELEC CLOSET A502A
A0202	003	PHOTO SMOKE	5TH FL ELEV CTRL RM A504
A0202	004	HEAT DETECT.	5TH FL ELEV CTRL RM A504
A0202	005	HEAT DETECT.	5TH FL ELEV CTRL RM A504
A0202	006	HEAT DETECT.	5TH FL ELEV A-3 PKG SIDE
A0202	007		
A0202	008		
A0202	009		
A0202	010		
A0202	011		
A0202	012	PHOTO SMOKE	6TH FL ELEV LOBBY A601
A0202	013	PHOTO SMOKE	6TH FL ELEC CLOSET A601A
A0202	014	PHOTO SMOKE	ELEV A-3 TOP OF HOISTWAY
A0202	015	HEAT DETECT.	ELEV A-3 TOP OF HOISTWAY
A0202	016	HEAT DETECT.	ELEV A-3 TOP OF HOISTWAY
A0202	017		
A0202	018	DUCT DETECT.	6TH FL FSD AT SHAFT AMS-3
A0202	019	DUCT DETECT.	6TH FL FSD AT SHAFT AMS-3
A0202	020		
A0202	021		
A0202	022		
A0202	023		
A0202	024	PHOTO SMOKE	7TH FL ELEV LOBBY A701
A0202	025	PHOTO SMOKE	7TH FL ELEC CLOSET A701A
A0202	026		
A0202	027		
A0202	028	DUCT DETECT.	7TH FL FSD AT NW OPEN AREA
A0202	029	DUCT DETECT.	7TH FL FSD AT NW OPEN AREA
A0202	030	DUCT DETECT.	7TH FL FSD AT SHAFT AMS-3
A0202	031	DUCT DETECT.	7TH FL FSD AT SHAFT AMS-3
A0202	032		
A0202	033		
A0202	034		
A0202	035		
A0202	036		
A0202	037		
A0202	038	PHOTO SMOKE	8TH FL ELEV LOBBY A801
A0202	039	PHOTO SMOKE	8TH FL ELEC CLOSET A801A
A0202	040		
A0202	041		
A0202	042	DUCT DETECT.	8TH FL FSD AT SHAFT AMS-4
A0202	043	DUCT DETECT.	8TH FL FSD AT SHAFT AMS-4
A0202	044		
A0202	045		
A0202	046		
A0202	047		
A0202	048		
A0202	049		
A0202	050	PHOTO SMOKE	9TH FL ELEV LOBBY A901
A0202	051	PHOTO SMOKE	9TH FL ELEC CLOSET A901A
A0202	052		
A0202	053		
A0202	054	PHOTO SMOKE	TOP OF ELEV A-1
A0202	055	HEAT DETECT.	TOP OF ELEV A-1
A0202	056	HEAT DETECT.	TOP OF ELEV A-1
A0202	057		
A0202	058	PHOTO SMOKE	TOP OF ELEV A-2
A0202	059	HEAT DETECT.	TOP OF ELEV A-2
A0202	060	HEAT DETECT.	TOP OF ELEV A-2
A0202	061		
A0202	062		
A0202	063	PHOTO SMOKE	TOP OF STAIR A1
A0202	064	PHOTO SMOKE	TOP OF STAIR A2
A0202	065		
A0202	066		
A0202	067	DUCT DETECT.	9TH FL FSD AT SHAFT AMS-4
A0202	068	DUCT DETECT.	9TH FL FSD AT SHAFT AMS-4
A0202	069		
A0202	070		
A0202	071		
A0202	072		
A0202	073		
A0202	074		
A0202	075		
A0202	076		
A0202	077		
A0202	078		
A0202	079		
A0202	080		
A0202	081		
A0202	082		
A0202	083		
A0202	084		
A0202	085		
A0202	086		
A0202	087		
A0202	088		
A0202	089		
A0202	090		
A0202	091		
A0202	092		
A0202	093		
A0202	094		
A0202	095		ADDRESSES CONTINUE TO 125
A0202	096		
A0202	097		
A0202	098		
A0202	099		
A0202	100		
A0202	101		
A0202	102		
A0202	103		
A0202	104		
A0202	105		
A0202	106		
A0202	107		
A0202	108		
A0202	109		
A0202	110		
A0202	111		
A0202	112		
A0202	113		
A0202	114		
A0202	115		
A0202	116		
A0202	117		
A0202	118		
A0202	119		
A0202	120		
A0202	121		
A0202	122		
A0202	123		
A0202	124		
A0202	125		

FACP-A2 - EST (EDWARDS EST4) SYSTEM

CARD #02-SLC LOOP #1 — **MODULE INPUTS/OUTPUTS**

ADDRESS PREFIX	DEVICE ADDRESS	DEVICE TYPE	DESCRIPTION
A0202	126	SPEAKER ZONE (CC2A)	SPEAKER CKT SA6-1 / MFC-A4 / ELEC A601A
A0202	127		SPEAKER CKT (SPARE) / MFC-A4 / ELEC A601A
A0202	128	SPEAKER ZONE (CC2A)	SPEAKER CKT SA6-2 / MFC-A4 / ELEC A601A
A0202	129		SPEAKER CKT (SPARE) / MFC-A4 / ELEC A601A
A0202	130	SPEAKER ZONE (CC2A)	SPEAKER CKT SA7-1 / MFC-A4 / ELEC A601A
A0202	131		SPEAKER CKT (SPARE) / MFC-A4 / ELEC A601A
A0202	132	SPEAKER ZONE (CC2A)	SPEAKER CKT SA7-2 / MFC-A4 / ELEC A601A
A0202	133		SPEAKER CKT (SPARE) / MFC-A4 / ELEC A601A
A0202	134		
A0202	135		
A0202	136		
A0202	137		
A0202	138	SPEAKER ZONE (CC2A)	SPEAKER CKT SA8-1 / MFC-A5 / ELEC A601A
A0202	139		SPEAKER CKT (SPARE) / MFC-A5 / ELEC A601A
A0202	140	SPEAKER ZONE (CC2A)	SPEAKER CKT SA8-2 / MFC-A5 / ELEC A601A
A0202	141		SPEAKER CKT (SPARE) / MFC-A5 / ELEC A601A
A0202	142	SPEAKER ZONE (CC2A)	SPEAKER CKT SA9-1 / MFC-A5 / ELEC A601A
A0202	143		SPEAKER CKT (SPARE) / MFC-A5 / ELEC A601A
A0202	144		
A0202	145		
A0202	146		
A0202	147		
A0202	148		
A0202	149		
A0202	150	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV A-1(1) ELEV CTRL A504
A0202	151	OUTPUT MODULE (CR)	ALT RECALL ELEV A-1(1) ELEV CTRL A504
A0202	152	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV A-1(1) ELEV CTRL A504
A0202	153	OUTPUT MODULE (CR)	SHUNT TRIP ELEV A-1(1) ELEV CTRL A504
A0202	154	INPUT MODULE (CT1)	S/T PWR SUPV ELEV A-1(1) ELEV CTRL A504
A0202	155		
A0202	156	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV A-1(2) ELEV CTRL A504
A0202	157	OUTPUT MODULE (CR)	ALT RECALL ELEV A-1(2) ELEV CTRL A504
A0202	158	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV A-1(2) ELEV CTRL A504
A0202	159	OUTPUT MODULE (CR)	SHUNT TRIP ELEV A-1(2) ELEV CTRL A504
A0202	160	INPUT MODULE (CT1)	S/T PWR SUPV ELEV A-1(2) ELEV CTRL A504
A0202	161		
A0202	162	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV A-2(1) ELEV CTRL A504
A0202	163	OUTPUT MODULE (CR)	ALT RECALL ELEV A-2(1) ELEV CTRL A504
A0202	164	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV A-2(1) ELEV CTRL A504
A0202	165	OUTPUT MODULE (CR)	SHUNT TRIP ELEV A-2(1) ELEV CTRL A504
A0202	166	INPUT MODULE (CT1)	S/T PWR SUPV ELEV A-2(1) ELEV CTRL A504
A0202	167		
A0202	168	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV A-2(2) ELEV CTRL A504
A0202	169	OUTPUT MODULE (CR)	ALT RECALL ELEV A-2(2) ELEV CTRL A504
A0202	170	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV A-2(2) ELEV CTRL A504
A0202	171	OUTPUT MODULE (CR)	SHUNT TRIP ELEV A-2(2) ELEV CTRL A504
A0202	172	INPUT MODULE (CT1)	S/T PWR SUPV ELEV A-2(2) ELEV CTRL A504
A0202	173		
A0202	174	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV A-3(1) ELEV CTRL A504
A0202	175	OUTPUT MODULE (CR)	ALT RECALL ELEV A-3(1) ELEV CTRL A504
A0202	176	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV A-3(1) ELEV CTRL A504
A0202	177	OUTPUT MODULE (CR)	SHUNT TRIP ELEV A-3(1) ELEV CTRL A504
A0202	178	INPUT MODULE (CT1)	S/T PWR SUPV ELEV A-3(1) ELEV CTRL A504
A0202	179		
A0202	180	OUTPUT MODULE (CR)	PRIMARY RECALL ELEV A-3(2) ELEV CTRL A504
A0202	181	OUTPUT MODULE (CR)	ALT RECALL ELEV A-3(2) ELEV CTRL A504
A0202	182	OUTPUT MODULE (CR)	FIRE HAT BLINK ELEV A-3(2) ELEV CTRL A504
A0202	183	OUTPUT MODULE (CR)	SHUNT TRIP ELEV A-3(2) ELEV CTRL A504
A0202	184	INPUT MODULE (CT1)	S/T PWR SUPV ELEV A-3(2) ELEV CTRL A504
A0202	185		
A0202	186		
A0202	187		
A0202	188		
A0202	189		
A0202	190	OUTPUT MODULE (CRH)	5-7TH FL FSD CONTROL ELEC CLOSET A601A
A0202	191	OUTPUT MODULE (CRH)	8-9TH FL FSD CONTROL ELEC CLOSET A601A
A0202	192		
A0202	193		
A0202	194		
A0202	195	OUTPUT MODULE (CR)	5TH FL SMOKE CURTAIN ELEV A-3 PKG SIDE
A0202	196	OUTPUT MODULE (CR)	6TH FL SMOKE CURTAIN ELEV A-1
A0202	197	OUTPUT MODULE (CR)	6TH FL SMOKE CURTAIN ELEV A-2
A0202	198	OUTPUT MODULE (CR)	6TH FL SMOKE CURTAIN ELEV A-3 PKG SIDE
A0202	199	OUTPUT MODULE (CR)	7TH FL SMOKE CURTAIN ELEV A-1
A0202	200	OUTPUT MODULE (CR)	7TH FL SMOKE CURTAIN ELEV A-2
A0202	201	OUTPUT MODULE (CR)	8TH FL SMOKE CURTAIN ELEV A-1
A0202	202	OUTPUT MODULE (CR)	8TH FL SMOKE CURTAIN ELEV A-2
A0202	203	OUTPUT MODULE (CR)	9TH FL SMOKE CURTAIN ELEV A-1
A0202	204	OUTPUT MODULE (CR)	9TH FL SMOKE CURTAIN ELEV A-2
A0202	205		
A0202	206		
A0202	207		
A0202	208		
A0202	209		
A0202	210		
A0202	211		
A0202	212		
A0202	213		
A0202	214		
A0202	215		
A0202	216		
A0202	217		
A0202	218		
A0202	219		
A0202	220		ADDRESSES CONTINUE TO 250
A0202	221		
A0202	222		
A0202	223		
A0202	224		
A0202	225		
A0202	226		
A0202	227		
A0202	228		
A0202	229		
A0202	230		
A0202	231		
A0202	232		
A0202	233		
A0202	234		
A0202	235		
A0202	236		
A0202	237		
A0202	238		
A0202	239		
A0202	240		
A0202	241		
A0202	242		
A0202	243		
A0202	244		
A0202	245		
A0202	246		
A0202	247		
A0202	248		
A0202	249		
A0202	250		

POV FACP-C1

EST 4 SERIES FIRE ALARM / SMOKE CONTROL PANEL BATTERY CALCULATION

DEVICE DESCRIPTION/MODEL	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Volt Drop Pt to Pt Method	Drop% Pt to Pt Volt	Volt Drop EOL Method	Drop% EOL Volt	Volt Drop LoadCntr Method	Drop% LoadCntr Volt	STANDBY (A)	ALARM (A)	TOTAL STANDBY (A)	TOTAL ALARM (A)
Central Processing Unit (EST 4-CPU)	1									0.21100	0.21100	0.2110	0.2110
Booster Power Supply (EST 4-PPS/M)	2									0.05000	0.05000	0.1000	0.1000
Liquid Crystal Display Module (EST 4-LCDLE)	1									0.04000	0.09300	0.0400	0.0930
Network Communication Card (4-NET-TP)	2									0.03200	0.03200	0.0640	0.0640
USB Hub Module (EST 4-USBHUB) (one port used)	1									0.12900	0.12900	0.1290	0.1290
Signature Dual Loop Card (EST 3-SDDC1) FULLY LOADED	1									0.26400	0.33600	0.2640	0.3360
Modem/Dialer (EST 3-MODCOM)	1									0.06000	0.09500	0.0600	0.0950
12 Switch (EST 4-24L12S)	2									0.00600	0.00600	0.0120	0.0120
Audio Interface Unit (EST 4-AUDTELS)	1									0.08500	0.10100	0.0850	0.1010
Remote Micriphone (EST 4-MIC)	1									0.0080	0.0380	0.0080	0.0380
20 Watt Zoned Amplifier (EST 3-ZA20B)	1									0.06200	1.12000	0.0620	1.1200
95 Watt Zoned Amplifier (EST 3-ZA95)	3									0.08500	5.54000	0.2550	16.6200
Graphic Annunciator CPU card (EST 4-CPUGRPH)	1									0.12300	0.12300	0.1230	0.1230
Power Supply Assembly (EST 3-EVPWRA)	1									0.00000	0.00000	0.0000	0.0000
LED/SWITCH Driver Module Assembly (EST 3-EVDVRA)	3									0.00000	0.00000	0.0000	0.0000
Network Communication Card (4-NET-TP)	2									0.03200	0.03200	0.0640	0.0640
AUX POWER		0	#14	0.000	0.00%	0.000	0.00%	0.000	0.00%	**. Amps=**	**0.0000**		
									CURRENT TOTALS (A)-->	**lac Ckts**	**0.000**	1.477	19.106

STANDBY HOURS REQUIRED	24	
ALARM SOUNDING MINUTES	15	
TOTAL SYSTEM STANDBY (A)	1.477	
TOTAL SYSTEM ALARM (A)	19.106	
TOTAL SYSTEM STANDBY (A/H)	35.45	
TOTAL SYSTEM ALARM (A/H)	4.78	
MINIMUM A/H BATTERY REQUIRED	40.225	
WITH 20% SPARE CAPACITY (A/H)	48.269	
BATTERIES PROVIDED AT 12VDC (AH)	(2) 55.0	HOUSED IN "3-RCC7R" CABINET

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV FACP-A1

EST 4 SERIES FIRE ALARM / SMOKE CONTROL PANEL BATTERY CALCULATION

DEVICE DESCRIPTION/MODEL	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Volt Drop Pt to Pt Method	Drop% Pt to Pt Volt	Volt Drop EOL Method	Drop% EOL Volt	Volt Drop LoadCntr Method	Drop% LoadCntr Volt	STANDBY (A)	ALARM (A)	TOTAL STANDBY (A)	TOTAL ALARM (A)
Central Processing Unit (EST 4-CPU)	1									0.21100	0.21100	0.2110	0.2110
Booster Power Supply (EST 4-PPS/M)	2									0.05000	0.05000	0.1000	0.1000
Liquid Crystal Display Module (EST 4-LCDLE)	1									0.04000	0.09300	0.0400	0.0930
Network Communication Card (4-NET-TP)	2									0.03200	0.03200	0.0640	0.0640
USB Hub Module (EST 4-USBHUB) (one port used)	1									0.12900	0.12900	0.1290	0.1290
Signature Dual Loop Card (EST 3-SDDC1) FULLY LOADED	1									0.26400	0.33600	0.2640	0.3360
Modem/Dialer (EST 3-MODCOM)	1									0.06000	0.09500	0.0600	0.0950
12 Switch (EST 4-24L12S)	2									0.00600	0.00600	0.0120	0.0120
Audio Interface Unit (EST 4-AUDTELS)	1									0.08500	0.10100	0.0850	0.1010
Remote Micriphone (EST 4-MIC)	1									0.0080	0.0380	0.0080	0.0380
20 Watt Zoned Amplifier (EST 3-ZA20B)	1									0.06200	1.12000	0.0620	1.1200
95 Watt Zoned Amplifier (EST 3-ZA95)	3									0.08500	5.54000	0.2550	16.6200
Graphic Annunciator CPU card (EST 4-CPUGRPH)	1									0.12300	0.12300	0.1230	0.1230
Power Supply Assembly (EST 3-EVPWRA)	1									0.00000	0.00000	0.0000	0.0000
LED/SWITCH Driver Module Assembly (EST 3-EVDVRA)	3									0.00000	0.00000	0.0000	0.0000
Network Communication Card (4-NET-TP)	2									0.03200	0.03200	0.0640	0.0640
AUX POWER		0	#14	0.000	0.00%	0.000	0.00%	0.000	0.00%	**. Amps=**	**0.0000**		
									CURRENT TOTALS (A)-->	**lac Ckts**	**0.000**	1.477	19.106

STANDBY HOURS REQUIRED	24	
ALARM SOUNDING MINUTES	15	
TOTAL SYSTEM STANDBY (A)	1.477	
TOTAL SYSTEM ALARM (A)	19.106	
TOTAL SYSTEM STANDBY (A/H)	35.45	
TOTAL SYSTEM ALARM (A/H)	4.78	
MINIMUM A/H BATTERY REQUIRED	40.225	
WITH 20% SPARE CAPACITY (A/H)	48.269	
BATTERIES PROVIDED AT 12VDC (AH)	(2) 55.0	HOUSED IN "3-RCC7R" CABINET

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV FACP-C2

EST 4 SERIES FIRE ALARM / SMOKE CONTROL PANEL BATTERY CALCULATION

DEVICE DESCRIPTION/MODEL	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Volt Drop Pt to Pt Method	Drop% Pt to Pt Volt	Volt Drop EOL Method	Drop% EOL Volt	Volt Drop LoadCntr Method	Drop% LoadCntr Volt	STANDBY (A)	ALARM (A)	TOTAL STANDBY (A)	TOTAL ALARM (A)
Central Processing Unit (EST 4-CPU)	1									0.21100	0.21100	0.2110	0.2110
Booster Power Supply (EST 4-PPS/M)	2									0.05000	0.05000	0.1000	0.1000
Liquid Crystal Display Module (EST 4-LCDLE)	1									0.04000	0.09300	0.0400	0.0930
Network Communication Card (4-NET-TP)	2									0.03200	0.03200	0.0640	0.0640
Signature Single Loop Card (EST 3-SSDC1) FULLY LOADED	1									0.14400	0.20400	0.1440	0.2040
95 Watt Zoned Amplifier (EST 3-ZA95)	3									0.08500	5.54000	0.2550	16.6200
AUX POWER		0	#14	0.000	0.00%	0.000	0.00%	0.000	0.00%	**. Amps=**	**0.0000**		
									CURRENT TOTALS (A)-->	**lac Ckts**	**0.000**	0.814	17.292

STANDBY HOURS REQUIRED	24	
ALARM SOUNDING MINUTES	15	
TOTAL SYSTEM STANDBY (A)	0.814	
TOTAL SYSTEM ALARM (A)	17.292	
TOTAL SYSTEM STANDBY (A/H)	19.54	
TOTAL SYSTEM ALARM (A/H)	4.32	
MINIMUM A/H BATTERY REQUIRED	23.859	
WITH 20% SPARE CAPACITY (A/H)	28.631	
BATTERIES PROVIDED AT 12VDC (AH)	(2) 35.0	HOUSED IN "BC-1R" CABINET

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV FACP-A2

EST 4 SERIES FIRE ALARM / SMOKE CONTROL PANEL BATTERY CALCULATION

DEVICE DESCRIPTION/MODEL	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Volt Drop Pt to Pt Method	Drop% Pt to Pt Volt	Volt Drop EOL Method	Drop% EOL Volt	Volt Drop LoadCntr Method	Drop% LoadCntr Volt	STANDBY (A)	ALARM (A)	TOTAL STANDBY (A)	TOTAL ALARM (A)
Central Processing Unit (EST 4-CPU)	1									0.21100	0.21100	0.2110	0.2110
Booster Power Supply (EST 4-PPS/M)	2									0.05000	0.05000	0.1000	0.1000
Liquid Crystal Display Module (EST 4-LCDLE)	1									0.04000	0.09300	0.0400	0.0930
Network Communication Card (4-NET-TP)	1									0.03200	0.03200	0.0320	0.0320
Signature Single Loop Card (EST 3-SSDC1) FULLY LOADED	1									0.14400	0.20400	0.1440	0.2040
95 Watt Zoned Amplifier (EST 3-ZA95)	3									0.08500	5.54000	0.2550	16.6200
AUX POWER		0	#14	0.000	0.00%	0.000	0.00%	0.000	0.00%	**. Amps=**	**0.0000**		
									CURRENT TOTALS (A)-->	**lac Ckts**	**0.000**	0.782	17.260

STANDBY HOURS REQUIRED	24	
ALARM SOUNDING MINUTES	15	
TOTAL SYSTEM STANDBY (A)	0.782	
TOTAL SYSTEM ALARM (A)	17.260	
TOTAL SYSTEM STANDBY (A/H)	18.77	
TOTAL SYSTEM ALARM (A/H)	4.32	
MINIMUM A/H BATTERY REQUIRED	23.083	
WITH 20% SPARE CAPACITY (A/H)	27.700	
BATTERIES PROVIDED AT 12VDC (AH)	(2) 35.0	HOUSED IN "BC-1R" CABINET

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV FACP-C3

EST 4 SERIES FIRE ALARM / SMOKE CONTROL PANEL BATTERY CALCULATION

DEVICE DESCRIPTION/MODEL	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Volt Drop Pt to Pt Method	Drop% Pt to Pt Volt	Volt Drop EOL Method	Drop% EOL Volt	Volt Drop LoadCntr Method	Drop% LoadCntr Volt	STANDBY (A)	ALARM (A)	TOTAL STANDBY (A)	TOTAL ALARM (A)
Central Processing Unit (EST 4-CPU)	1									0.21100	0.21100	0.2110	0.2110
Booster Power Supply (EST 4-PPS/M)	2									0.05000	0.05000	0.1000	0.1000
Liquid Crystal Display Module (EST 4-LCDLE)	1									0.04000	0.09300	0.0400	0.0930
Network Communication Card (4-NET-TP)	1									0.03200	0.03200	0.0320	0.0320
95 Watt Zoned Amplifier (EST 3-ZA95)	3									0.08500	5.54000	0.2550	16.6200
AUX POWER		0	#14	0.000	0.00%	0.000	0.00%	0.000	0.00%	**. Amps=**	**0.0000**		
									CURRENT TOTALS (A)-->	**lac Ckts**	**0.000**	0.638	17.056

STANDBY HOURS REQUIRED	24	
ALARM SOUNDING MINUTES	15	
TOTAL SYSTEM STANDBY (A)	0.638	
TOTAL SYSTEM ALARM (A)	17.056	
TOTAL SYSTEM STANDBY (A/H)	15.31	
TOTAL SYSTEM ALARM (A/H)	4.26	
MINIMUM A/H BATTERY REQUIRED	19.576	
WITH 20% SPARE CAPACITY (A/H)	23.491	
BATTERIES PROVIDED AT 12VDC (AH)	(2) 28.0	HOUSED IN "BC-1R" CABINET

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC1

EST BPS6A REMOTE BOOSTER SUPPLY (NAC#1) BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			**580 FT**	**#14**	**3.07**	**1.781**	**18.830**	**16.00**	**1.570**	**7.70%**	**Ckt. Amps=**	**0.441**		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			**640 FT**	**#14**	**3.07**	**1.965**	**18.793**	**16.00**	**1.607**	**7.88%**	**Ckt. Amps=**	**0.409**		
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCVWF Strobe 30cd, Ceiling		1										0.0240		0.0240
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
NAC CKT #3			**570 FT**	**#14**	**3.07**	**1.750**	**18.661**	**16.00**	**1.739**	**8.53%**	**Ckt. Amps=**	**0.497**		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4VWF Strobe 15cd, Wall		1										0.0280		0.0280
G4VWF Strobe 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 30cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 30cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 30cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #4			**0 FT**	**#14**	**3.07**		**20.400**	**16.00**			**Ckt. Amps=**			
(Spare)														
										CURRENT TOTALS (A)-->	**Nac Ckts=**	**1.347**	0.070	1.617

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.617
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.40
MINIMUM A/H BATTERY REQUIRED	2.084
WITH 20% SPARE CAPACITY (A/H)	2.501
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC2

EST BPS6A REMOTE BOOSTER SUPPLY (NAC#1) BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			**430 FT**	**#14**	**3.07**	**1.320**	**19.513**	**16.00**	**0.887**	**4.35%**	**Ckt. Amps=**	**0.336**		
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			**440 FT**	**#14**	**3.07**	**1.351**	**19.379**	**16.00**	**1.021**	**5.01%**	**Ckt. Amps=**	**0.378**		
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			**435 FT**	**#14**	**3.07**	**1.335**	**19.203**	**16.00**	**1.197**	**5.87%**	**Ckt. Amps=**	**0.448**		
G4VWF Strobe 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
NAC CKT #4			**0 FT**	**#14**	**3.07**		**20.400**	**16.00**			**Ckt. Amps=**			
(Spare)														
										CURRENT TOTALS (A)-->	**Nac Ckts=**	**1.162**	0.070	1.432

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.432
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.36
MINIMUM A/H BATTERY REQUIRED	2.038
WITH 20% SPARE CAPACITY (A/H)	2.446
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC3

EST BPS6A REMOTE BOOSTER SUPPLY (NAC#1) BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			**372 FT**	**#14**	**3.07**	**1.142**	**19.249**	**16.00**	**1.151**	**5.64%**	**Ckt. Amps=**	**0.504**		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			**590 FT**	**#14**	**3.07**	**1.811**	**19.132**	**16.00**	**1.268**	**6.22%**	**Ckt. Amps=**	**0.350**		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			**390 FT**	**#14**	**3.07**	**1.197**	**19.813**	**16.00**	**0.587**	**2.88%**	**Ckt. Amps=**	**0.245**		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #4			**0 FT**	**#14**	**3.07**		**20.400**	**16.00**			**Ckt. Amps=**			
(Spare)														
										CURRENT TOTALS (A)-->	**Nac Ckts=**	**1.099**	0.070	1.369

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.369
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.34
MINIMUM A/H BATTERY REQUIRED	2.022
WITH 20% SPARE CAPACITY (A/H)	2.427
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

SC-R2

SC3.2B

POV NAC4

EST BPS6A REMOTE BOOSTER SUPPLY (NAC#1) BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			450 FT	#14	3.07	1.382	19.626	16.00	0.774	3.79%	Ckt. Amps=	0.280		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			275 FT	#14	3.07	0.844	19.554	16.00	0.846	4.15%	Ckt. Amps=	0.501		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			610 FT	#14	3.07	1.873	19.089	16.00	1.311	6.43%	Ckt. Amps=	0.350		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	1.131	0.070	1.401

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.401
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.35
MINIMUM A/H BATTERY REQUIRED	2.030
WITH 20% SPARE CAPACITY (A/H)	2.436
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC5

EST BPS6A REMOTE BOOSTER SUPPLY (NAC#1) BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			740 FT	#14	3.07	2.272	18.492	16.00	1.908	9.35%	Ckt. Amps=	0.420		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			590 FT	#14	3.07	1.811	19.284	16.00	1.116	5.47%	Ckt. Amps=	0.308		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			555 FT	#14	3.07	1.704	18.993	16.00	1.407	6.90%	Ckt. Amps=	0.413		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #4			655 FT	#14	3.07	2.011	18.711	16.00	1.689	8.28%	Ckt. Amps=	0.420		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
										CURRENT TOTALS (A)-->	Nac Ckts=	1.561	0.070	1.831

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.831
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.46
MINIMUM A/H BATTERY REQUIRED	2.138
WITH 20% SPARE CAPACITY (A/H)	2.565
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC6

EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			520 FT	#14	3.07	1.596	18.309	16.00	2.091	10.25%	Ckt. Amps=	0.655		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
NAC CKT #2			570 FT	#14	3.07	1.750	19.175	16.00	1.225	6.00%	Ckt. Amps=	0.350		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			490 FT	#14	3.07	1.504	18.514	16.00	1.886	9.25%	Ckt. Amps=	0.627		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
NAC CKT #4			680 FT	#14	3.07	2.088	18.646	16.00	1.754	8.60%	Ckt. Amps=	0.420		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
										CURRENT TOTALS (A)-->	Nac Ckts=	2.052	0.070	2.322

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	2.322
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.58
MINIMUM A/H BATTERY REQUIRED	2.261
WITH 20% SPARE CAPACITY (A/H)	2.713
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC7

EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			555 FT	#14	3.07	1.704	18.993	16.00	1.407	6.90%	Ckt. Amps=	0.413		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 75cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			655 FT	#14	3.07	2.011	18.711	16.00	1.689	8.28%	Ckt. Amps=	0.420		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	0.833	0.070	1.103

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.103
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.28
MINIMUM A/H BATTERY REQUIRED	1.956
WITH 20% SPARE CAPACITY (A/H)	2.347
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC8

EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			510 FT	#14	3.07	1.566	18.327	16.00	2.073	10.16%	Ckt. Amps=	0.662		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			680 FT	#14	3.07	2.088	18.500	16.00	1.900	9.31%	Ckt. Amps=	0.455		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	1.117	0.070	1.387

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.387
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.35
MINIMUM A/H BATTERY REQUIRED	2.027
WITH 20% SPARE CAPACITY (A/H)	2.432
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC9

EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			475 FT	#14	3.07	1.458	19.420	16.00	0.980	4.80%	Ckt. Amps=	0.336		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			325 FT	#14	3.07	0.998	19.883	16.00	0.517	2.53%	Ckt. Amps=	0.259		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			375 FT	#14	3.07	1.151	18.528	16.00	1.872	9.18%	Ckt. Amps=	0.813		
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	1.408	0.070	1.678

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.678
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.42
MINIMUM A/H BATTERY REQUIRED	2.100
WITH 20% SPARE CAPACITY (A/H)	2.519
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC10
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			490 FT	#14	3.07	1.504	19.242	16.00	1.158	5.68%	Ckt. Amps=	0.385		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
NAC CKT #2			85 FT	#14	3.07	0.261	20.067	16.00	0.333	1.63%	Ckt. Amps=	0.638		
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
WG4WF-SVMC Speaker-Strobe, 87cd, Wall		1										0.3190		0.3190
NAC CKT #3			455 FT	#14	3.07	1.397	19.520	16.00	0.880	4.31%	Ckt. Amps=	0.315		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	1.338	0.070	1.608

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.608
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.40
MINIMUM A/H BATTERY REQUIRED	2.082
WITH 20% SPARE CAPACITY (A/H)	2.498
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC11
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			475 FT	#14	3.07	1.458	19.420	16.00	0.980	4.80%	Ckt. Amps=	0.336		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
		1												
		1												
NAC CKT #2			590 FT	#14	3.07	1.811	18.828	16.00	1.572	7.71%	Ckt. Amps=	0.434		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)		1												
		1												
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	0.770	0.070	1.040

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.040
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.26
MINIMUM A/H BATTERY REQUIRED	1.940
WITH 20% SPARE CAPACITY (A/H)	2.328
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC12
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			550 FT	#14	3.07	1.689	19.147	16.00	1.253	6.14%	Ckt. Amps=	0.371		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			440 FT	#14	3.07	1.351	19.417	16.00	0.983	4.82%	Ckt. Amps=	0.364		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	0.735	0.070	1.005

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.005
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.25
MINIMUM A/H BATTERY REQUIRED	1.931
WITH 20% SPARE CAPACITY (A/H)	2.318
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC13
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			475 FT	#14	3.07	1.458	19.420	16.00	0.980	4.80%	Ckt. Amps=	0.336		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			590 FT	#14	3.07	1.811	18.828	16.00	1.572	7.71%	Ckt. Amps=	0.434		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	0.770	0.070	1.040

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.040
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.26
MINIMUM A/H BATTERY REQUIRED	1.940
WITH 20% SPARE CAPACITY (A/H)	2.328
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC14
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			140 FT	#14	3.07	0.430	19.279	16.00	1.121	5.49%	Ckt. Amps=	1.304		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
NAC CKT #2			305 FT	#14	3.07	0.936	19.344	16.00	1.056	5.18%	Ckt. Amps=	0.564		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
NAC CKT #3			215 FT	#14	3.07	0.660	19.475	16.00	0.925	4.54%	Ckt. Amps=	0.701		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	2.569	0.070	2.839

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	2.839
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.71
MINIMUM A/H BATTERY REQUIRED	2.390
WITH 20% SPARE CAPACITY (A/H)	2.868
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC15
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			395 FT	#14	3.07	1.213	18.292	16.00	2.108	10.33%	Ckt. Amps=	0.869		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
NAC CKT #2			315 FT	#14	3.07	0.967	19.350	16.00	1.050	5.15%	Ckt. Amps=	0.543		
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
NAC CKT #3			340 FT	#14	3.07	1.044	19.296	16.00	1.104	5.41%	Ckt. Amps=	0.529		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	1.941	0.070	2.211

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	2.211
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.55
MINIMUM A/H BATTERY REQUIRED	2.233
WITH 20% SPARE CAPACITY (A/H)	2.679
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC16
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			140 FT	#14	3.07	0.430	20.316	16.00	0.084	0.41%	Ckt. Amps=	0.098		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			160 FT	#14	3.07	0.491	20.166	16.00	0.234	1.15%	Ckt. Amps=	0.238		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 110cd, Wall		1										0.0280		0.0280
NAC CKT #3			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	0.336	0.070	0.606

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	0.606
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.15
MINIMUM A/H BATTERY REQUIRED	1.832
WITH 20% SPARE CAPACITY (A/H)	2.198
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

POV NAC17
EST BPS SERIES REMOTE BOOSTER SUPPLY BATTERY CALCULATION

MODEL	Desc	DEVICE QTY.	1-Way Distance Feet	Wire Gauge #	Ohms Per Foot	Total Ohms	Volts at Eol	Min Volts Req'd	Volt Drop EOL Method	Drop% EOL Volt	STANDBY (A)	ALARM (A)	TOTAL STANDB (A)	TOTAL ALARM (A)
BPS6A	Remote Booster Supply, 6A	1									0.07000	0.27000	0.0700	0.2700
NAC CKT #1			305 FT	#14	3.07	0.936	19.967	16.00	0.433	2.12%	Ckt. Amps=	0.231		
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #2			290 FT	#14	3.07	0.890	19.939	16.00	0.461	2.26%	Ckt. Amps=	0.259		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
G4SVWF Speaker-Strobe, 15cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
G4SVWF Speaker-Strobe, 75cd, Wall		1										0.0280		0.0280
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #3			350 FT	#14	3.07	1.075	18.728	16.00	1.672	8.20%	Ckt. Amps=	0.778		
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
WG4WF-SVMC Speaker-Strobe, 87cd, Wall/C		1										0.3190		0.3190
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
GCSVWF Speaker-Strobe, 115cd, Clg		1										0.0350		0.0350
NAC CKT #4			0 FT	#14	3.07		20.400	16.00			Ckt. Amps=			
(Spare)														
										CURRENT TOTALS (A)-->	Nac Ckts=	1.268	0.070	1.538

STANDBY HOURS REQUIRED	24
ALARM SOUNDING MINUTES	15
TOTAL SYSTEM STANDBY (A)	0.070
TOTAL SYSTEM ALARM (A)	1.538
TOTAL SYSTEM STANDBY (A/H)	1.68
TOTAL SYSTEM ALARM (A/H)	0.38
MINIMUM A/H BATTERY REQUIRED	2.065
WITH 20% SPARE CAPACITY (A/H)	2.477
BATTERIES PROVIDED AT 12VDC	(2) 7 AH

Voltage Drop Calculation Notes:
1) Calculations use the NFPA70(NEC 2017) Wire Resistance Values for 167 Degrees Fahrenheit [See Chp. 9, Table 8].
2) Calculations are using the manufacturer's U.L. Max. current values for Notification Devices.

SPEAKER CIRCUIT SCHEDULE
FACP-C1

TOTAL WATTS	SPEAKER CIRCUIT	SHEET NUMBER
1.25 W	SC-1	STAIR C1
1.25 W	SC-2	STAIR C2
1.25 W	SC-3	STAIR C3
0.75 W	SC-4	STAIR C4
4.50 W	SC-5	ELEV C LOBBIES
16.25 W	SC1-1	FA2.00A
16.00 W	SC1-2	FA2.00A
13.50 W	SC1-3	FA2.00A
11.00 W	SC2-1	FA2.01A
17.50 W	SC2-2	FA2.01A
12.00 W	SC2-3	FA2.01A
17.00 W	SC3-1	FA2.02A
14.00 W	SC3-2	FA2.02A
13.00 W	SC4-1	FA2.03A
22.00 W	SC4-2	FA2.03A
W		
152.25 W	TOTAL REQUIRED	
305.00 W	TOTAL PROVIDED	
3 X 95W AMP		
1 X 20W AMP		

SPEAKER CIRCUIT SCHEDULE
FACP-A1

TOTAL WATTS	SPEAKER CIRCUIT	SHEET NUMBER
1.25 W	SA-1	STAIR A1
1.50 W	SA-2	STAIR A2
4.25 W	SA-3	ELEV A LOBBIES
12.00 W	SA1-1	FA2.00B
10.25 W	SA1-2	FA2.00B
12.00 W	SA1-3	FA2.00B
16.00 W	SA2-1	FA2.01B
6.75 W	SA2-2	FA2.01B
7.50 W	SA2-3	FA2.01B
19.00 W	SA3-1	FA2.02B
8.50 W	SA3-2	FA2.02B
17.00 W	SA4-1	FA2.03B
11.50 W	SA4-2	FA2.03B
18.00 W	SA5-1	FA2.04B
12.50 W	SA5-2	FA2.04B
W		
151.00 W	TOTAL REQUIRED	
305.00 W	TOTAL PROVIDED	
3 X 95W AMP		
1 X 20W AMP		

SPEAKER CIRCUIT SCHEDULE
FACP-C2

TOTAL WATTS	SPEAKER CIRCUIT	SHEET NUMBER
17.00 W	SC5-1	FA2.04A
11.50 W	SC5-2	FA2.04A
16.50 W	SC6-1	FA2.05A
25.25 W	SC6-2	FA2.05A
16.50 W	SC7-1	FA2.06A
21.25 W	SC7-2	FA2.06A
W		
108.00 W	TAL REQUIRED	
285.00 W	TAL PROVIDED	
3 X 95W AMP		

SPEAKER CIRCUIT SCHEDULE
FACP-A2

TOTAL WATTS	SPEAKER CIRCUIT	SHEET NUMBER
12.25 W	SA6-1	FA2.05B
20.00 W	SA6-2	FA2.05B
16.50 W	SA7-1	FA2.06B
15.25 W	SA7-2	FA2.06B
16.50 W	SA8-1	FA2.07B
21.25 W	SA8-2	FA2.07B
11.50 W	SA9-1	FA2.08B
W		
113.25 W	TOTAL REQUIRED	
285.00 W	TOTAL PROVIDED	
3 X 95W AMP		

SPEAKER CIRCUIT SCHEDULE
FACP-C3

TOTAL WATTS	SPEAKER CIRCUIT	SHEET NUMBER
16.50 W	SC8-1	FA2.07A
21.25 W	SC8-2	FA2.07A
21.25 W	SC9-1	FA2.08A
13.00 W	SC9-2	FA2.08A
19.75 W	SC10-1	FA2.09A
11.00 W	SC10-2	FA2.09A
W		
102.75 W	TOTAL REQUIRED	
285.00 W	TOTAL PROVIDED	
3 X 95W AMP		

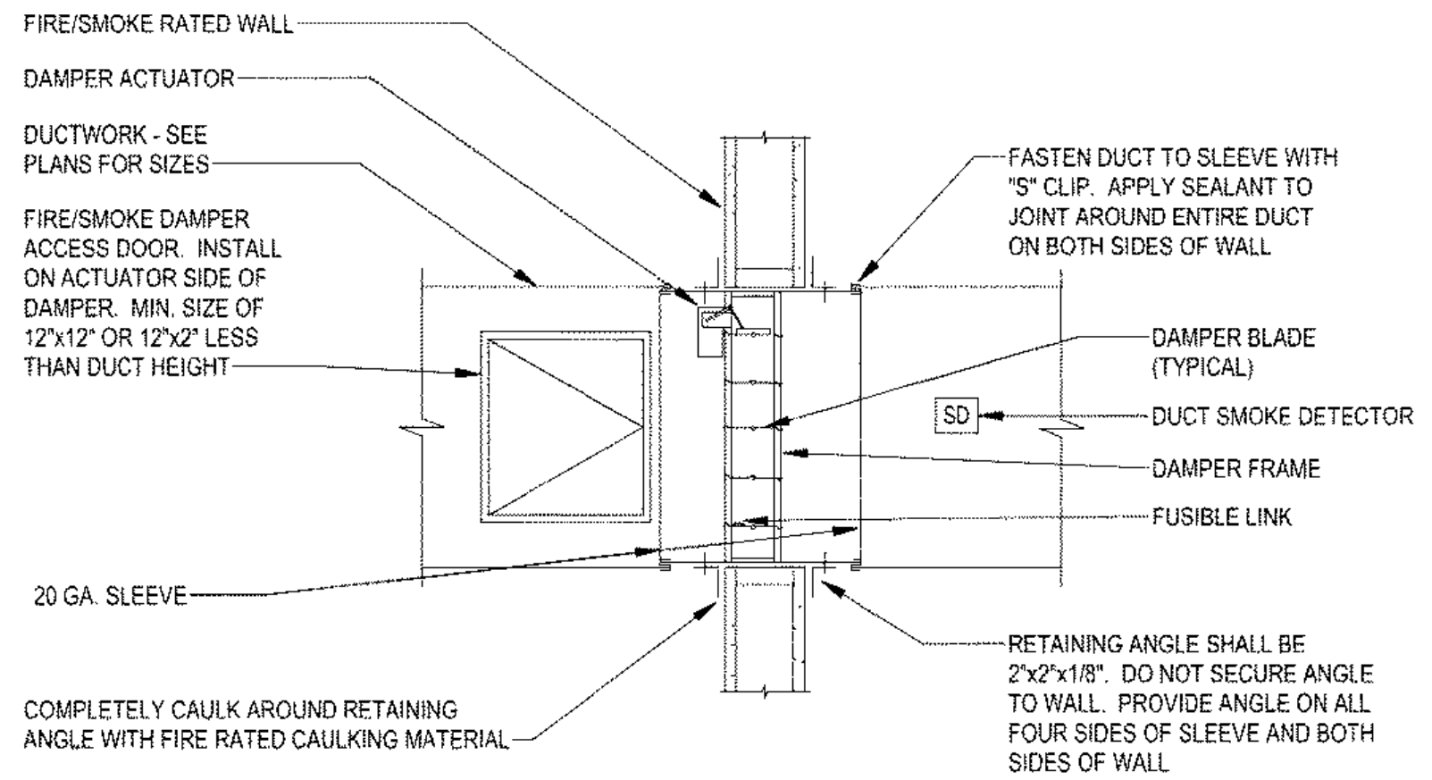
SC-R2

SC3.2D

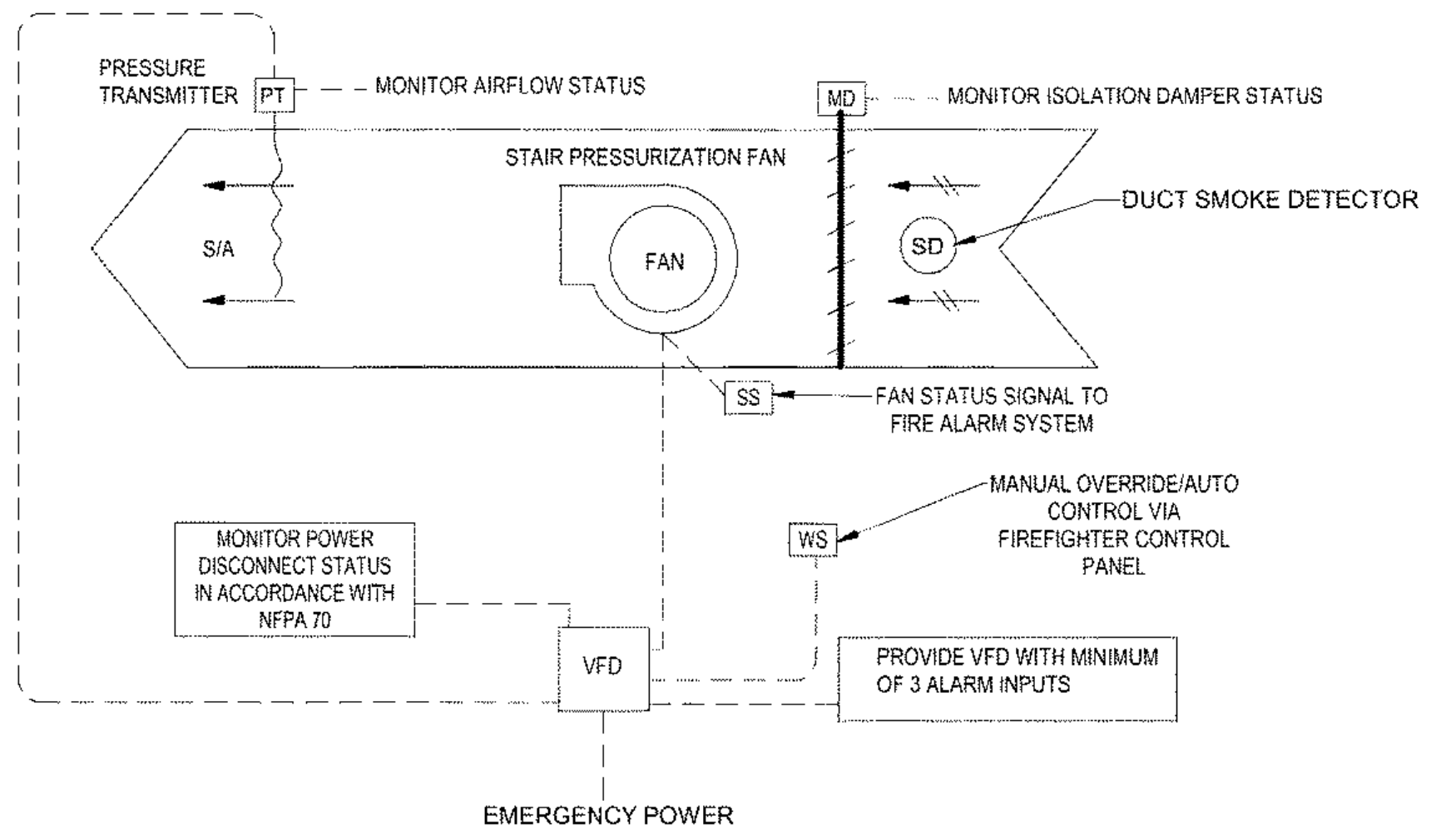
SC-R2

FAN SCHEDULE												
			FAN							ELECTRICAL DATA		
			AIRFLOW	PRESS		MOTOR						
TAG	DESCRIPTION	TYPE	CFM	ESP	DRIVE TYPE	POWER	VFD	SERVICE FACTOR	UNIT WEIGHT	VOLT	PH	REMARKS
GEF-1	GARAGE	TUBE AXIAL	22,590	2.0 in-wg	DIRECT	20 HP	YES	1.15	820 LBS	480 V	3	PROVIDE WITH CO CONTROLS, BACKDRAFT DAMPER AND VFD (SEE NOTE 1)
GEF-2	GARAGE	TUBE AXIAL	17,820	2.0 in-wg	DIRECT	20 HP	YES	1.15	820 LBS	480 V	3	PROVIDE WITH CO CONTROLS, BACKDRAFT DAMPER AND VFD (SEE NOTE 1)
GEF-3A1 THRU GEF-3A8	GARAGE EXHAUST	SIDEWALL PROPELLER	15,000	0.61 in-wg	DIRECT	5 HP	YES	1.15	220 LBS	480 V	3	PROVIDE WITH CO CONTROLS, BACKDRAFT DAMPER AND VFD (SEE NOTE 1)
GEF-3C1 THRU GEF-3C7	GARAGE EXHAUST	SIDEWALL PROPELLER	15,000	0.61 in-wg	DIRECT	5 HP	YES	1.15	220 LBS	480 V	3	PROVIDE WITH CO CONTROLS, BACKDRAFT DAMPER AND VFD (SEE NOTE 1)
SPF-1A1	STAIR PRESSURIZATION FAN STAIR A1	UTILITY SET	3,100	1.5 in-wg	BELT	2 HP	YES	1.15	550 LBS	480 V	3	PROVIDE WITH PRESSURE CONTROLS, BACKDRAFT DAMPER, EMERGENCY POWER FROM GENERATOR, 1.5 X NUMBER OF BELTS REQUIRED (MINIMUM, 2 GROOVE PULLEY). FAN TO BE UL-705 LISTED WITH TEMPERATURE RATING OF 500°F FOR 4 HOURS.
SPF-1A2	STAIR PRESSURIZATION FAN STAIR A2	UTILITY SET	4,000	1.5 in-wg	BELT	2 HP	YES	1.15	550 LBS	480 V	3	PROVIDE WITH PRESSURE CONTROLS, BACKDRAFT DAMPER, EMERGENCY POWER FROM GENERATOR, 1.5 X NUMBER OF BELTS REQUIRED (MINIMUM, 2 GROOVE PULLEY). FAN TO BE UL-705 LISTED WITH TEMPERATURE RATING OF 500°F FOR 4 HOURS.
SPF-1C1	STAIR PRESSURIZATION FAN STAIR C2	UTILITY SET	3,600	1.5 in-wg	BELT	2 HP	YES	1.15	550 LBS	480 V	3	PROVIDE WITH PRESSURE CONTROLS, BACKDRAFT DAMPER, EMERGENCY POWER FROM GENERATOR, 1.5 X NUMBER OF BELTS REQUIRED (MINIMUM, 2 GROOVE PULLEY). FAN TO BE UL-705 LISTED WITH TEMPERATURE RATING OF 500°F FOR 4 HOURS.
SPF-1C2	STAIR PRESSURIZATION FAN STAIR C1	UTILITY SET	3,800	1.5 in-wg	BELT	2 HP	YES	1.15	550 LBS	480 V	3	PROVIDE WITH PRESSURE CONTROLS, BACKDRAFT DAMPER, EMERGENCY POWER FROM GENERATOR, 1.5 X NUMBER OF BELTS REQUIRED (MINIMUM, 2 GROOVE PULLEY). FAN TO BE UL-705 LISTED WITH TEMPERATURE RATING OF 500°F FOR 4 HOURS.
SPF-1C3	STAIR PRESSURIZATION FAN STAIR C1	UTILITY SET	2,400	1.5 in-wg	BELT	2 HP	YES	1.15	550 LBS	480 V	3	PROVIDE WITH PRESSURE CONTROLS, BACKDRAFT DAMPER, EMERGENCY POWER FROM GENERATOR, 1.5 X NUMBER OF BELTS REQUIRED (MINIMUM, 2 GROOVE PULLEY). FAN TO BE UL-705 LISTED WITH TEMPERATURE RATING OF 500°F FOR 4 HOURS.

NOTE 1: SMOKE DETECTION WITH AUTOMATIC SHUT-OFF NOT REQUIRED PER WA STATE MECHANICAL CODE SECTION 606.2.1, EXCEPTION #2.


FIRE/SMOKE RATED WALL
DAMPER ACTUATOR
DUCTWORK - SEE PLANS FOR SIZES
FIRE/SMOKE DAMPER ACCESS DOOR. INSTALL ON ACTUATOR SIDE OF DAMPER. MIN. SIZE OF 12"x12" OR 12"x2" LESS THAN DUCT HEIGHT
20 GA. SLEEVE
COMPLETELY CAULK AROUND RETAINING ANGLE WITH FIRE RATED CAULKING MATERIAL
FASTEN DUCT TO SLEEVE WITH "S" CLIP. APPLY SEALANT TO JOINT AROUND ENTIRE DUCT ON BOTH SIDES OF WALL
DAMPER BLADE (TYPICAL)
SD
DUCT SMOKE DETECTOR
DAMPER FRAME
FUSIBLE LINK
RETAINING ANGLE SHALL BE 2"x2"x1/8". DO NOT SECURE ANGLE TO WALL. PROVIDE ANGLE ON ALL FOUR SIDES OF SLEEVE AND BOTH SIDES OF WALL

② COMBINATION FIRE/SMOKE DAMPER INSTALLATION DETAIL
NO SCALE


PRESSURE TRANSMITTER
PT
MONITOR AIRFLOW STATUS
MD
MONITOR ISOLATION DAMPER STATUS
STAIR PRESSURIZATION FAN
S/A
FAN
SD
DUCT SMOKE DETECTOR
SS
FAN STATUS SIGNAL TO FIRE ALARM SYSTEM
MANUAL OVERRIDE/AUTO CONTROL VIA FIREFIGHTER CONTROL PANEL
WS
MONITOR POWER DISCONNECT STATUS IN ACCORDANCE WITH NFPA 70
VFD
PROVIDE VFD WITH MINIMUM OF 3 ALARM INPUTS
EMERGENCY POWER

③ STAIRWELL PRESSURIZATION FAN CONTROLS
1/8" = 1'-0"

SMOKE CONTROL DAMPER SCHEDULE		
EQUIPMENT	CONTROL SYSTEM	SERVES
FSD	BMS	DOAS-1
FSD	BMS	DOAS-3
FSD	BMS	DOAS-3
FSD	BMS	DOAS-3
FSD	BMS	DOAS-3
FSD	BMS	SVAV-A2
FSD	BMS	EVAV-A2
FSD	BMS	SVAV-A3
FSD	BMS	EVAV-A3
FSD	BMS	SVAV-A4
FSD	BMS	EVAV-A4
FSD	BMS	SVAV-C5
FSD	BMS	EVAV-C5
FSD	BMS	SVAV-C4
FSD	BMS	SVAV-C3
FSD	BMS	EVAV-C3
FSD	BMS	SVAV-A2
FSD	BMS	EVAV-A2
FSD	BMS	EVAV-C1
FSD	BMS	SVAV-C1
FSD	BMS	DOAS-1
FSD	BMS	DOAS-2
FSD	BMS	DOAS-2
FSD	BMS	EVAV-C4
FSD	BMS	DOAS-3
FSD	BMS	DOAS-3
FD	BMS	EF-3A

MOTORIZED DAMPER SCHEDULE		
EQUIPMENT	CONTROL SYSTEM	SERVES
MD-1	FIRE ALARM	SPF-1C2
MD-2	FIRE ALARM	SPF-1C1
MD-3	FIRE ALARM	SPF-1A1
MD-4	FIRE ALARM	SPF-1A2
MD-5	FIRE ALARM	SPF-1C3

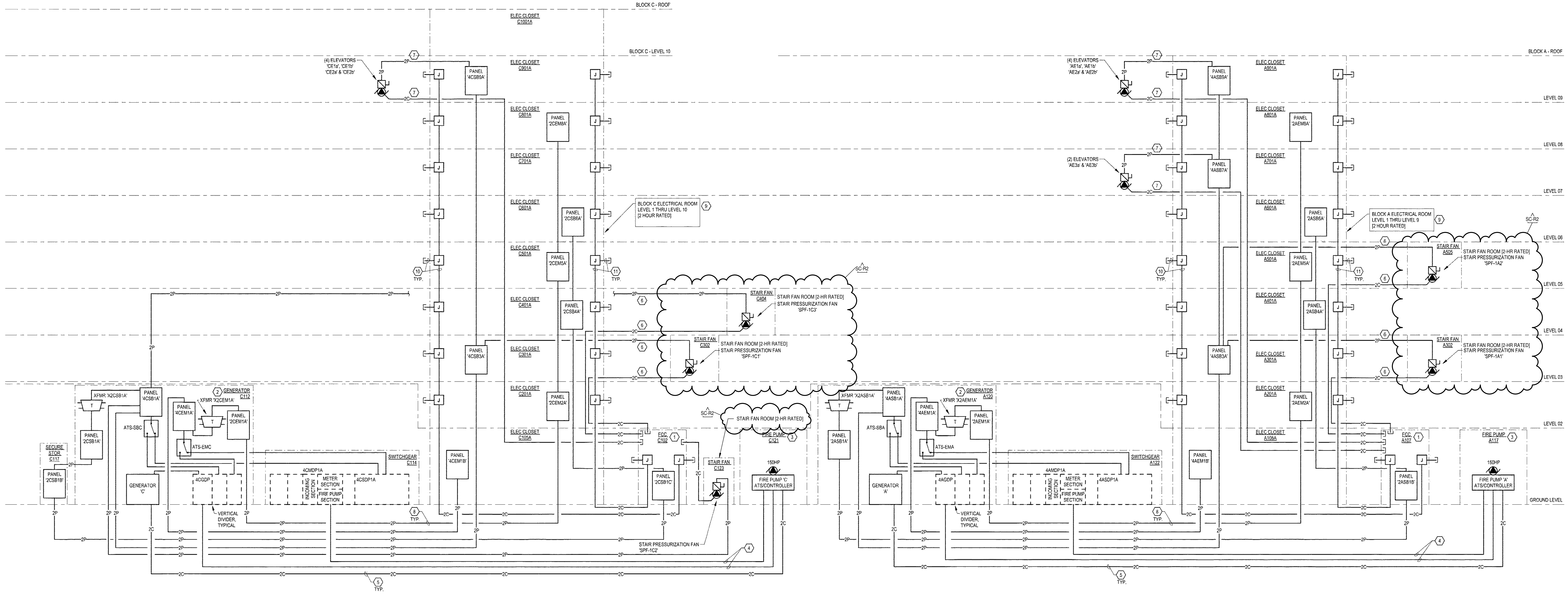
FIRE RESISTANT RATING (FRR) LINETYPE LEGEND	
—1C—	1-HOUR CONTROL FRR
—1P—	1-HOUR POWER FRR
—2C—	2-HOUR CONTROL FRR
—2P—	2-HOUR POWER FRR

CODE REFERENCES

1. 2018 WASHINGTON STATE BUILDING CODE (WSBC)
2. 2018 WASHINGTON STATE FIRE CODE (WSFC)
3. 2021 NEC

KEYED NOTES

1. FIRE COMMAND CENTER WITH 2-HOUR FIRE RESISTANCE RATING.
   - WSBC 911.1.2 (1-HOUR)
   - WSFC 508.1.2 (2-HOUR)
2. GENERATOR ROOM WITH 2-HOUR FIRE RESISTANCE RATING.
   - WSBC 909.11.1 (1-HOUR)
   - WSBC 403.4.8.1 (2-HOUR)
   - NFPA 110 7.2.1.1 (2-HOUR)
3. FIRE PUMP ROOM WITH 2-HOUR FIRE RESISTANCE RATING.
   - WSBC 913.2.1 (2-HOUR)
   - NFPA 20 4.14.1.1.1 (2-HOUR)
4. ROUTE OUTSIDE OF BUILDING OR IN 2" CONCRETE ENCASEMENT.
   - NEC 695.6 (A)
5. ROUTE IN 2" CONCRETE ENCASEMENT OR 2-HOUR FIRE-RATED ASSEMBLY.
6. STAIR PRESSURIZATION FAN. ROUTE IN 2-HOUR RATED ASSEMBLY.
   - WSBC 909.20.6.1 PER ELECTRICAL CODE
7. FIRE SERVICE ACCESS ELEVATOR WIRING WITH 2-HOUR FIRE RESISTANCE RATING.
   - WSBC 3007.8.1
8. EMERGENCY LIGHTING CABLES / RACEWAYS INSTALLED IN AREAS FULLY PROTECTED BY FIRE SUPPRESSION SYSTEM OR PROTECTED WITH A 2-HOUR RATING.
   - NEC 700.12
9. STACKED ELECTRICAL ROOMS WITH 2-HOUR FIRE RESISTANCE RATING.
10. DAS BACKBONE CABLING TO BE INSTALLED IN 2" CONDUIT. 2" CONDUIT SLEEVES FOR HORIZONTAL CABLING.
11. FIRE ALARM CABILING TO BE INSTALLED IN 2" CONDUIT. (2) 1" CONDUIT SLEEVES FOR HORIZONTAL CABLING.


BLOCK C - ROOF
BLOCK C - LEVEL 10
BLOCK A - ROOF
LEVEL 09
LEVEL 08
LEVEL 07
LEVEL 06
LEVEL 05
LEVEL 04
LEVEL 03
LEVEL 02
GROUND LEVEL
ELEC CLOSET C1001A
ELEC CLOSET C901A
ELEC CLOSET C801A
ELEC CLOSET C701A
ELEC CLOSET C601A
ELEC CLOSET C501A
ELEC CLOSET C401A
ELEC CLOSET C301A
ELEC CLOSET C201A
ELEC CLOSET C105A
(4) ELEVATORS 'CE1a', 'CE1b' 'CE2a' & 'CE2b'
PANEL '4CSB9A'
PANEL '2CEM8A'
PANEL '2CSB6A'
PANEL '2CEM5A'
PANEL '2CSB4A'
PANEL '4CSB3A'
PANEL '2CEM2A'
PANEL '4CEM1B'
BLOCK C ELECTRICAL ROOM LEVEL 1 THRU LEVEL 10 [2 HOUR RATED]
STAIR FAN C404
STAIR FAN ROOM [2-HR RATED] STAIR PRESSURIZATION FAN 'SPF-1C3'
STAIR FAN C302
STAIR FAN ROOM [2-HR RATED] STAIR PRESSURIZATION FAN 'SPF-1C1'
SC-R2
STAIR FAN ROOM [2-HR RATED]
STAIR FAN C123
STAIR PRESSURIZATION FAN 'SPF-1C2'
FCC C102
FIRE PUMP C121
150HP
FIRE PUMP 'C' ATS/CONTROLLER
PANEL '2CSB1C'
SECURE STOR C117
PANEL '2CSB1B'
XFMR 'X2CSB1A'
PANEL '2CSB1A'
PANEL '4CSB1A'
ATS-SBC
GENERATOR 'C'
GENERATOR C112
PANEL '4CEM1A'
XFMR 'X2CEM1A'
PANEL '2CEM1A'
ATS-EMC
4CGDP
VERTICAL DIVIDER, TYPICAL
SWITCHGEAR C114
4CMDP1A
INCOMING SECTION
METER SECTION
FIRE PUMP SECTION
4CSDP1A
ELEC CLOSET A901A
ELEC CLOSET A801A
ELEC CLOSET A701A
ELEC CLOSET A601A
ELEC CLOSET A501A
ELEC CLOSET A401A
ELEC CLOSET A301A
ELEC CLOSET A201A
ELEC CLOSET A108A
(4) ELEVATORS 'AE1a', 'AE1b' 'AE2a' & 'AE2b'
(2) ELEVATORS 'AE3a' & 'AE3b'
PANEL '4ASB9A'
PANEL '4ASB7A'
PANEL '2AEM8A'
PANEL '2ASB6A'
PANEL '2AEM5A'
PANEL '2ASB4A'
PANEL '4ASB3A'
PANEL '2AEM2A'
PANEL '4AEM1B'
BLOCK A ELECTRICAL ROOM LEVEL 1 THRU LEVEL 9 [2 HOUR RATED]
STAIR FAN A505
STAIR FAN ROOM [2-HR RATED] STAIR PRESSURIZATION FAN 'SPF-1A2'
STAIR FAN A302
STAIR FAN ROOM [2-HR RATED] STAIR PRESSURIZATION FAN 'SPF-1A1'
FCC A107
PANEL '2ASB1B'
FIRE PUMP A117
150HP
FIRE PUMP 'A' ATS/CONTROLLER
XFMR 'X2ASB1A'
PANEL '4ASB1A'
PANEL '2ASB1A'
ATS-SBA
GENERATOR 'A'
GENERATOR A120
PANEL '4AEM1A'
XFMR 'X2AEM1A'
PANEL '2AEM1A'
ATS-EMA
4AGDP
SWITCHGEAR A122
4AMDP1A
4ASDP1A
J
T
1P
2P
2C
TYP.

1 **ELECTRICAL SMOKE CONTROL FIRE RESISTANT BARRIER RATINGS - PATHWAYS AND SPACES**
N.T.S.

CODE REFERENCES

1. 2018 WASHINGTON STATE BUILDING CODE (WSBC)
2. 2018 WASHINGTON STATE FIRE CODE (WSFC)
3. 2021 NEC

KEYED NOTES ◇X

1. FIRE COMMAND CENTER WITH 2-HOUR FIRE RESISTANCE RATING.
    - WSBC 911.1.2 (1-HOUR)
    - WSFC 508.1.2 (2-HOUR)
2. NOT USED
3. FIRE PUMP ROOM WITH 2-HOUR FIRE RESISTANCE RATING.
    - WSBC 913.2.1 (2-HOUR)
    - NFPA 20 4.14.1.1.1 (2-HOUR)
4. NOT USED
5. WIRING REQUIRED TO BE PROTECTED IN EITHER: A 2-HR RATED ASSEMBLY, ENCASED IN A MINIMUM OF 2-INCHES OF CONCRETE, OR IN A UL LISTED 2-HR RATED CABLE SYSTEM
6. NOT USED
7. NOT USED
8. NOT USED
9. STACKED ELECTRICAL ROOMS WITH 2-HOUR FIRE RESISTANCE RATING.

SHEET NOTE:

SC-R2

A. DEVICE ADDRESSES C01.02.001 THRU C01.02.250 ARE CONNECTED TO FACP-C1, SLC LOOP #1. THIS LOOP CONTAINS SMOKE CONTROL DEVICES AND SHALL BE PROTECTED THROUGHOUT FOR 2-HOUR SURVIVABILITY.

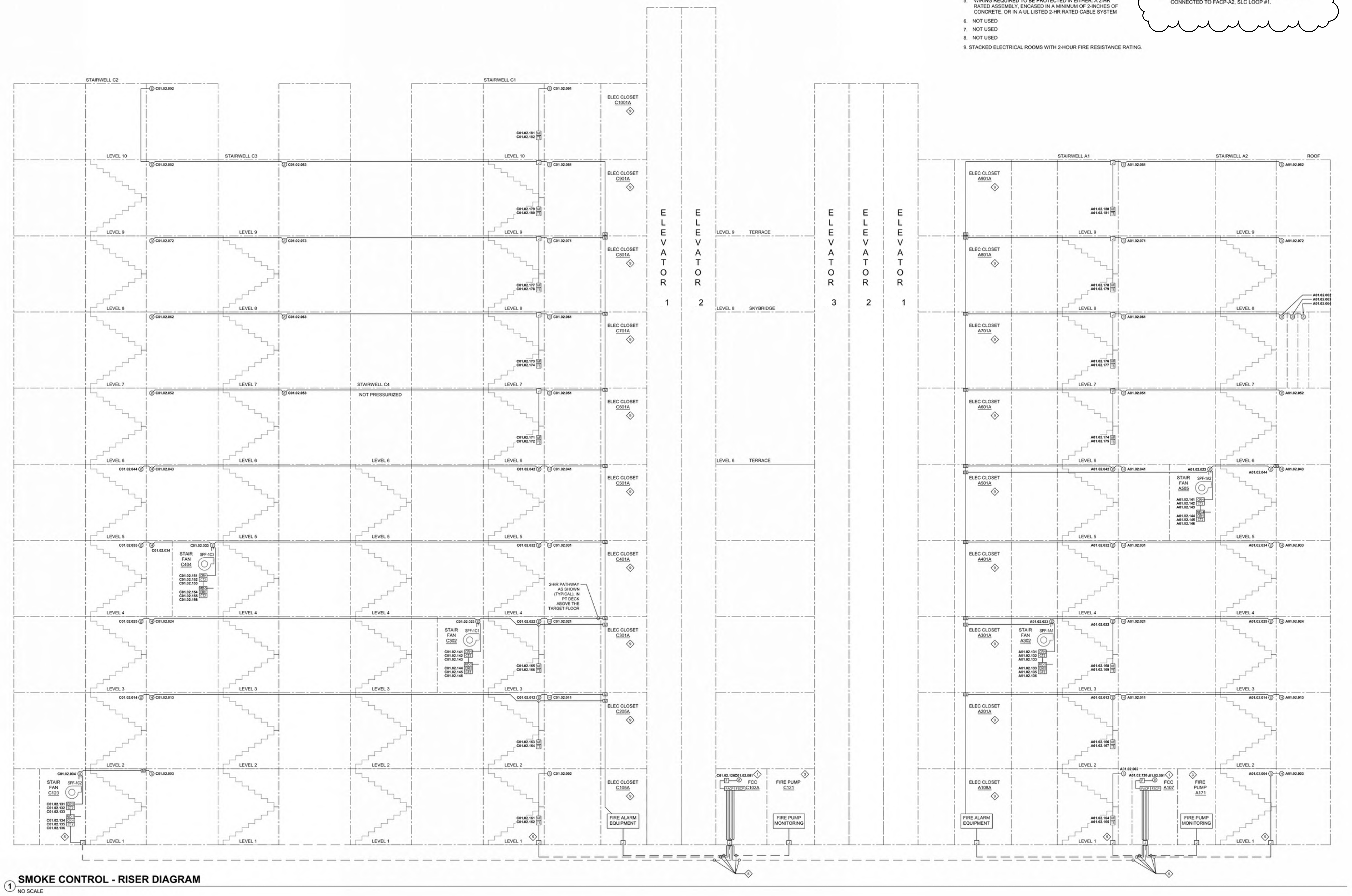
B. DEVICE ADDRESSES C01.02.251 THRU C01.02.500 ARE CONNECTED TO FACP-C1, SLC LOOP #2.

C. DEVICE ADDRESSES C02.02.001 THRU C02.02.250 ARE CONNECTED TO FACP-C2, SLC LOOP #1.

D. DEVICE ADDRESSES A01.02.001 THRU A01.02.250 ARE CONNECTED TO FACP-A1, SLC LOOP #1. THIS LOOP CONTAINS SMOKE CONTROL DEVICES AND SHALL BE PROTECTED THROUGHOUT FOR 2-HOUR SURVIVABILITY.

E. DEVICE ADDRESSES A01.02.251 THRU A01.02.500 ARE CONNECTED TO FACP-A1, SLC LOOP #2.

F. DEVICE ADDRESSES A02.02.001 THRU A02.02.250 ARE CONNECTED TO FACP-A2, SLC LOOP #1.


STAIRWELL C2
STAIRWELL C3
STAIRWELL C1
STAIRWELL C4
NOT PRESSURIZED
STAIRWELL A1
STAIRWELL A2
ROOF
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1
ELEVATOR 1
ELEVATOR 2
ELEVATOR 3
ELEVATOR 2
ELEVATOR 1
TERRACE
SKYBRIDGE
TERRACE
ELEC CLOSET C1001A
ELEC CLOSET C901A
ELEC CLOSET C801A
ELEC CLOSET C701A
ELEC CLOSET C601A
ELEC CLOSET C501A
ELEC CLOSET C401A
ELEC CLOSET C301A
ELEC CLOSET C205A
ELEC CLOSET C105A
ELEC CLOSET A901A
ELEC CLOSET A801A
ELEC CLOSET A701A
ELEC CLOSET A601A
ELEC CLOSET A501A
ELEC CLOSET A401A
ELEC CLOSET A301A
ELEC CLOSET A201A
ELEC CLOSET A108A
STAIR FAN C404 SPF-1C3
STAIR FAN C302 SPF-1C1
STAIR FAN C123 SPF-1C2
STAIR FAN A505 SPF-1A2
STAIR FAN A302 SPF-1A1
2-HR PATHWAY AS SHOWN (TYPICAL), IN PT DECK ABOVE THE TARGET FLOOR
FIRE ALARM EQUIPMENT
FCC C102A
FIRE PUMP C121
FIRE PUMP MONITORING
FCC A107
FIRE PUMP A171
C01.02.092
C01.02.091
C01.02.082
C01.02.083
C01.02.081
C01.02.072
C01.02.073
C01.02.071
C01.02.062
C01.02.063
C01.02.061
C01.02.052
C01.02.053
C01.02.051
C01.02.032
C01.02.031
C01.02.022
C01.02.021
C01.02.165
C01.02.166
A01.02.091
A01.02.092
A01.02.071
A01.02.072
A01.02.061
A01.02.051
A01.02.052

① SMOKE CONTROL - RISER DIAGRAM

NO SCALE

SC6.2

KEY NOTES ⟨X⟩

1. ALL CC1S MODULES ARE CONNTECTED TO THE SAME SLC CKT: A1-02-XXX, FOR SYSTEM WIDE STROBE SYNC.
2. SYSTEM DATA NETWORK FOR PANEL TO PANEL COMMUNICATIONS (NOT SLC)

SHEET NOTE:

A. DEVICE ADDRESSES C01.02.001 THRU C01.02.250 ARE CONNECTED TO FACP-C1, SLC LOOP #1. THIS LOOP CONTAINS SMOKE CONTROL DEVICES AND SHALL BE PROTECTED THROUGHOUT FOR 2-HOUR SURVIVABILITY.

B. DEVICE ADDRESSES C01.02.251 THRU C01.02.500 ARE CONNECTED TO FACP-C1, SLC LOOP #2.

C. DEVICE ADDRESSES C02.02.001 THRU C02.02.250 ARE CONNECTED TO FACP-C2, SLC LOOP #1.

D. DEVICE ADDRESSES A01.02.001 THRU A01.02.250 ARE CONNECTED TO FACP-A1, SLC LOOP #1. THIS LOOP CONTAINS SMOKE CONTROL DEVICES AND SHALL BE PROTECTED THROUGHOUT FOR 2-HOUR SURVIVABILITY.

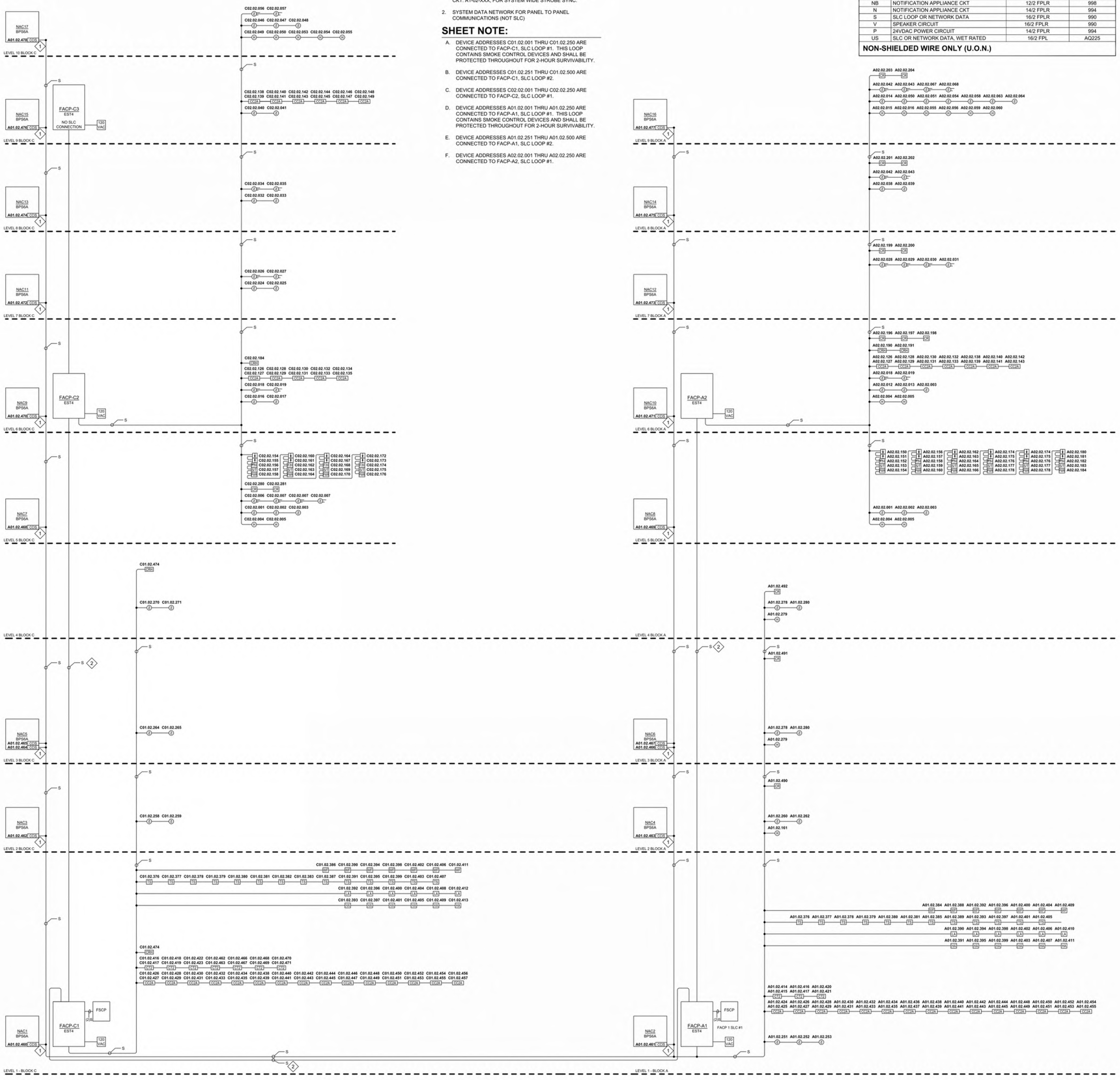
E. DEVICE ADDRESSES A01.02.251 THRU A01.02.500 ARE CONNECTED TO FACP-A1, SLC LOOP #2.

F. DEVICE ADDRESSES A02.02.001 THRU A02.02.250 ARE CONNECTED TO FACP-A2, SLC LOOP #1.

WIRE SCHEDULE

SYMBOL	DESCRIPTION	WIRE SIZE/TYPE	West Penn #
NB	NOTIFICATION APPLIANCE CKT	12/2 FPLR	998
N	NOTIFICATION APPLIANCE CKT	14/2 FPLR	994
S	SLC LOOP OR NETWORK DATA	16/2 FPLR	990
V	SPEAKER CIRCUIT	16/2 FPLR	990
P	24VDAC POWER CIRCUIT	14/2 FPLR	994
US	SLC OR NETWORK DATA, WET RATED	16/2 FPL	AQ225

NON-SHIELDED WIRE ONLY (U.O.N.)



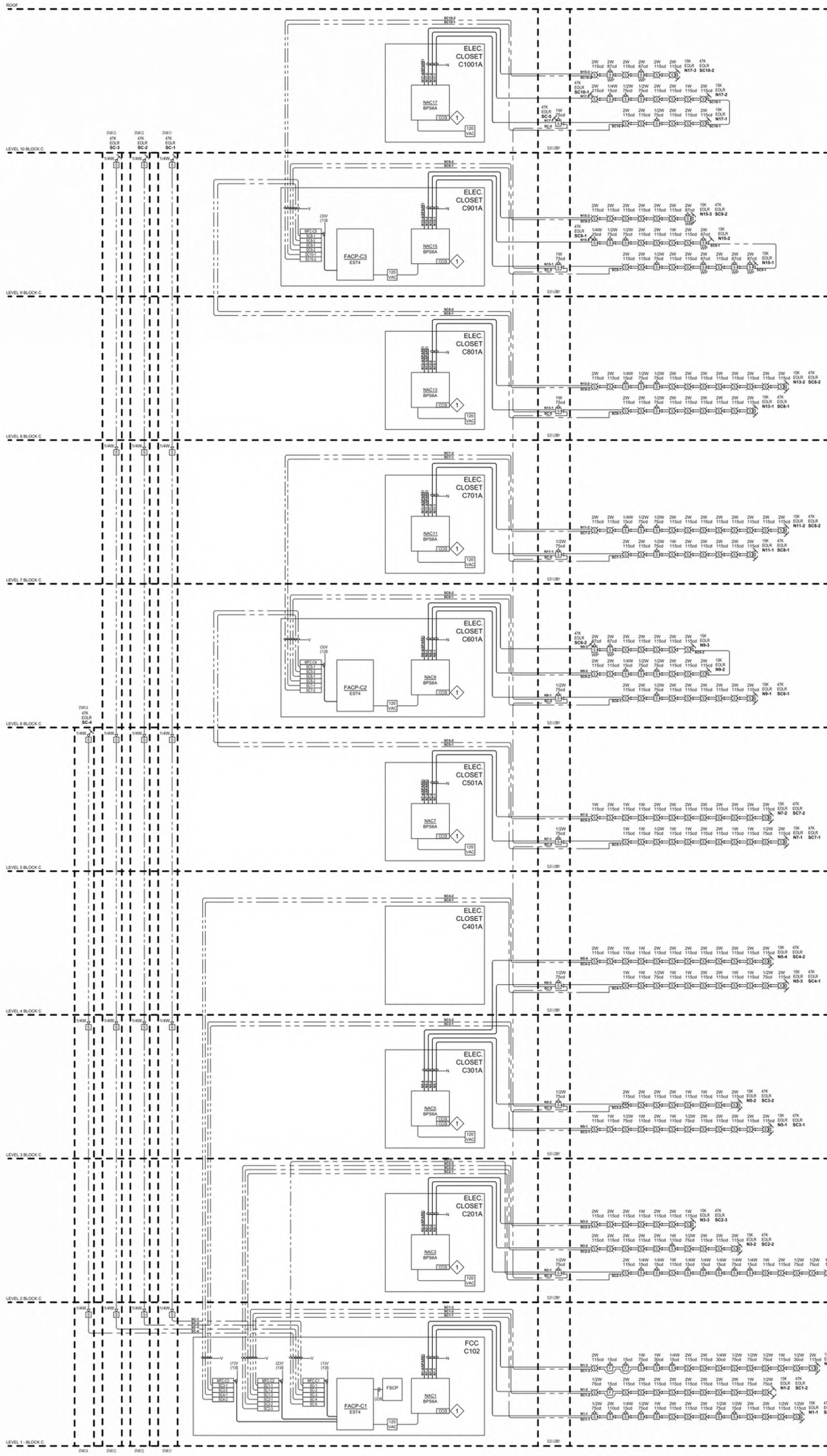
NAC17 BPS6A
NAC15 BPS6A
NAC13 BPS6A
NAC11 BPS6A
NAC9 BPS6A
NAC7 BPS6A
NAC5 BPS6A
NAC3 BPS6A
NAC1 BPS6A
NAC16 BPS6A
NAC14 BPS6A
NAC12 BPS6A
NAC10 BPS6A
NAC8 BPS6A
NAC6 BPS6A
NAC4 BPS6A
NAC2 BPS6A
FACP-C3 EST4
NO SLC CONNECTION
FACP-C2 EST4
FACP-C1 EST4
FACP-A2 EST4
FACP-A1 EST4
FSCP
FACP 1 SLC #1
120 VAC
LEVEL 10 BLOCK C
LEVEL 9 BLOCK C
LEVEL 8 BLOCK C
LEVEL 7 BLOCK C
LEVEL 6 BLOCK C
LEVEL 5 BLOCK C
LEVEL 4 BLOCK C
LEVEL 3 BLOCK C
LEVEL 2 BLOCK C
LEVEL 1 - BLOCK C
LEVEL 9 BLOCK A
LEVEL 8 BLOCK A
LEVEL 7 BLOCK A
LEVEL 6 BLOCK A
LEVEL 5 BLOCK A
LEVEL 4 BLOCK A
LEVEL 3 BLOCK A
LEVEL 2 BLOCK A
LEVEL 1 - BLOCK A
S
1
2

① **RISER DIAGRAM - DETECTION AND CONTROLS - FIRE ALARM**

NOT TO SCALE

SC-R2

SC6.2A


ROOF
LEVEL 9 BLOCK C
LEVEL 8 BLOCK C
LEVEL 7 BLOCK C
LEVEL 6 BLOCK C
LEVEL 5 BLOCK C
LEVEL 4 BLOCK C
LEVEL 3 BLOCK C
LEVEL 2 BLOCK C
LEVEL 1 - BLOCK C
ELEC. CLOSET C1001A
ELEC. CLOSET C901A
FACP-C3
ELEC. CLOSET C801A
ELEC. CLOSET C701A
ELEC. CLOSET C601A
FACP-C2
ELEC. CLOSET C501A
ELEC. CLOSET C401A
ELEC. CLOSET C301A
ELEC. CLOSET C201A
FCC C102
FACP-C1
FSCP

KEY NOTES ⟨X⟩

1. ALL CC1S MODULES ARE CONNTECTED TO THE SAME SLC CKT: A1-02-XXX, FOR SYSTEM WIDE STROBE SYNC. REFER TO ADDRESSABLE DEVICES RISER DIAGRAM FA1.01.

SHEET NOTE:

A. DEVICE ADDRESSES C01.02.001 THRU C01.02.250 ARE CONNECTED TO FACP-C1, SLC LOOP #1. THIS LOOP CONTAINS SMOKE CONTROL DEVICES AND SHALL BE PROTECTED THROUGHOUT FOR 2-HOUR SURVIVABILITY.

B. DEVICE ADDRESSES C01.02.251 THRU C01.02.500 ARE CONNECTED TO FACP-C1, SLC LOOP #2.

C. DEVICE ADDRESSES C02.02.001 THRU C02.02.250 ARE CONNECTED TO FACP-C2, SLC LOOP #1.

D. DEVICE ADDRESSES A01.02.001 THRU A01.02.250 ARE CONNECTED TO FACP-A1, SLC LOOP #1. THIS LOOP CONTAINS SMOKE CONTROL DEVICES AND SHALL BE PROTECTED THROUGHOUT FOR 2-HOUR SURVIVABILITY.

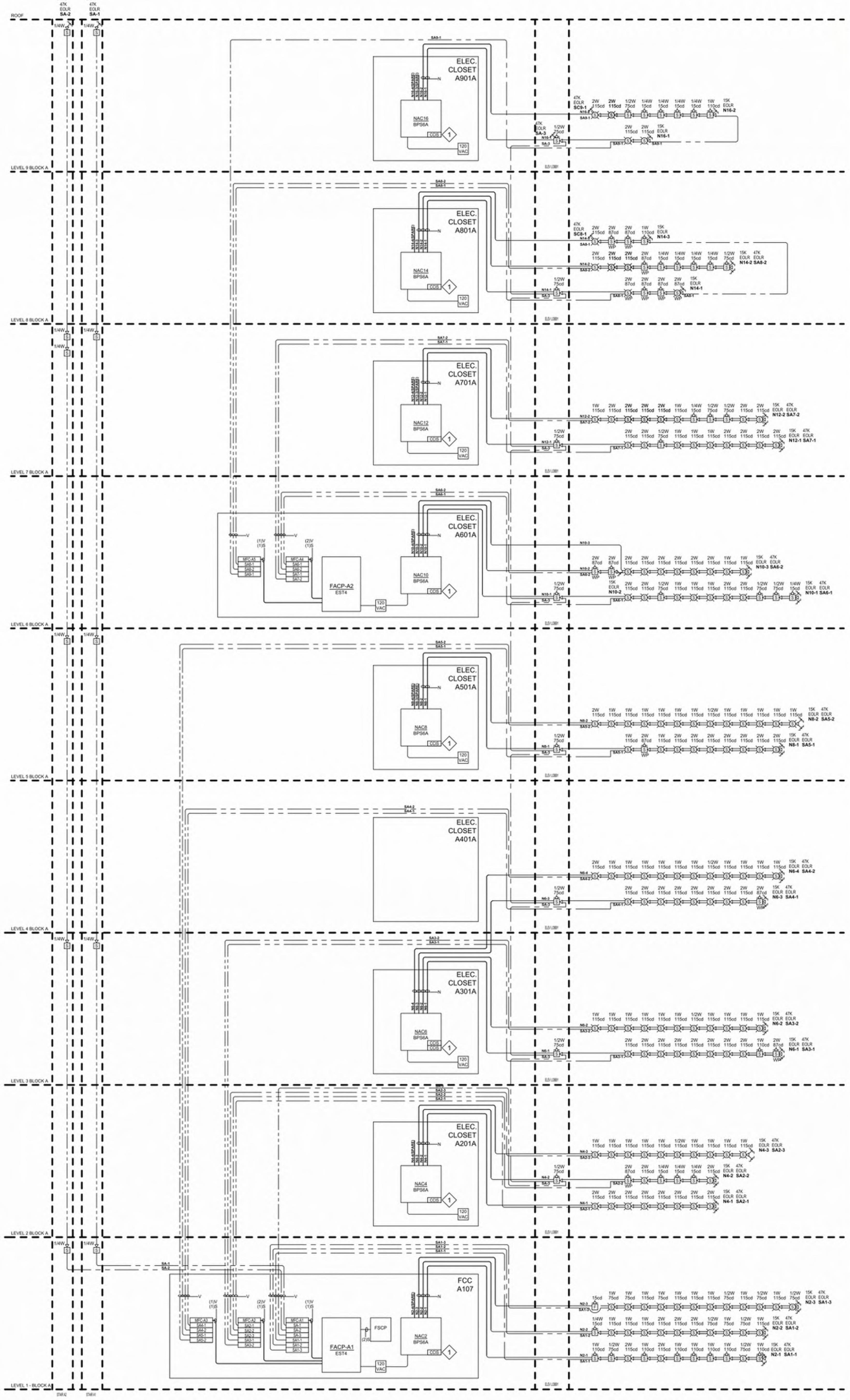
E. DEVICE ADDRESSES A01.02.251 THRU A01.02.500 ARE CONNECTED TO FACP-A1, SLC LOOP #2.

F. DEVICE ADDRESSES A02.02.001 THRU A02.02.250 ARE CONNECTED TO FACP-A2, SLC LOOP #1.

WIRE SCHEDULE

SYMBOL	DESCRIPTION	WIRE SIZE/TYPE	West Penn #
NB	NOTIFICATION APPLIANCE CKT	12/2 FPLR	998
N	NOTIFICATION APPLIANCE CKT	14/2 FPLR	994
S	SLC LOOP OR NETWORK DATA	16/2 FPLR	990
V	SPEAKER CIRCUIT	16/2 FPLR	990
P	24VDAC POWER CIRCUIT	14/2 FPLR	994
US	SLC OR NETWORK DATA, WET RATED	16/2 FPL	AQ225

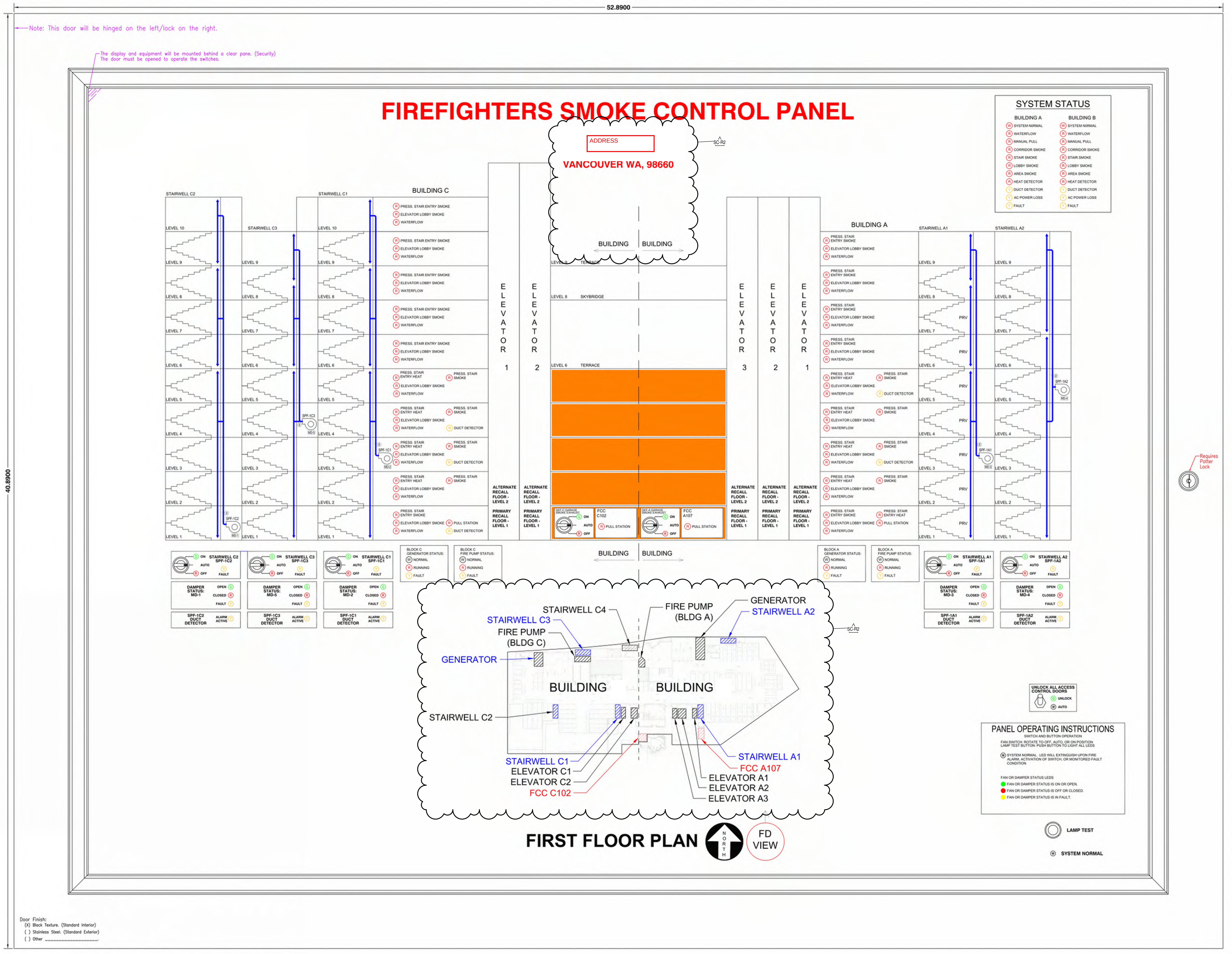
NON-SHIELDED WIRE ONLY (U.O.N.)


ROOF
LEVEL 9 BLOCK A
LEVEL 8 BLOCK A
LEVEL 7 BLOCK A
LEVEL 6 BLOCK A
LEVEL 5 BLOCK A
LEVEL 4 BLOCK A
LEVEL 3 BLOCK A
LEVEL 2 BLOCK A
LEVEL 1 - BLOCK A
ELEC. CLOSET A901A
ELEC. CLOSET A801A
ELEC. CLOSET A701A
ELEC. CLOSET A601A
FACP-A2
ELEC. CLOSET A501A
ELEC. CLOSET A401A
ELEC. CLOSET A301A
ELEC. CLOSET A201A
FCC A107
FACP-A1
FSCP

① RISER DIAGRAM - NOTIFICATION - FIRE ALARM

NOT TO SCALE

SC6.2B



52.8900
40.8900
FIREFIGHTERS SMOKE CONTROL PANEL
ADDRESS
VANCOUVER WA, 98660
SC-R2
SYSTEM STATUS
BUILDING A
BUILDING B
W SYSTEM NORMAL
R WATERFLOW
R MANUAL PULL
R CORRIDOR SMOKE
R STAIR SMOKE
R LOBBY SMOKE
R AREA SMOKE
R HEAT DETECTOR
Y DUCT DETECTOR
Y AC POWER LOSS
Y FAULT
STAIRWELL C2
STAIRWELL C3
STAIRWELL C1
BUILDING C
STAIRWELL A1
STAIRWELL A2
LEVEL 10
LEVEL 9
LEVEL 8
LEVEL 7
LEVEL 6
LEVEL 5
LEVEL 4
LEVEL 3
LEVEL 2
LEVEL 1
PRESS. STAIR ENTRY SMOKE
ELEVATOR LOBBY SMOKE
WATERFLOW
PRESS. STAIR ENTRY HEAT
PRESS. STAIR SMOKE
DUCT DETECTOR
PULL STATION
ELEVATOR 1
ELEVATOR 2
ELEVATOR 3
ALTERNATE RECALL FLOOR - LEVEL 2
PRIMARY RECALL FLOOR - LEVEL 1
BUILDING
TERRACE
SKYBRIDGE
PRV
SPF-1C2
SPF-1C3
SPF-1C1
SPF-1A1
SPF-1A2
MD-1
MD-5
MD-2
MD-3
MD-4
FCC C102
FCC A107
ON
AUTO
OFF
FAULT
DAMPER STATUS:
OPEN
CLOSED
DUCT DETECTOR
ALARM ACTIVE
BLOCK C GENERATOR STATUS:
BLOCK C FIRE PUMP STATUS:
BLOCK A GENERATOR STATUS:
BLOCK A FIRE PUMP STATUS:
NORMAL
RUNNING
STAIRWELL C4
FIRE PUMP (BLDG A)
GENERATOR
STAIRWELL A2
STAIRWELL C3
FIRE PUMP (BLDG C)
GENERATOR
BUILDING
BUILDING
STAIRWELL C2
STAIRWELL C1
ELEVATOR C1
ELEVATOR C2
FCC C102
STAIRWELL A1
FCC A107
ELEVATOR A1
ELEVATOR A2
ELEVATOR A3
FIRST FLOOR PLAN
NORTH
FD VIEW
Requires Potter Lock
UNLOCK ALL ACCESS CONTROL DOORS
G UNLOCK
W AUTO
LAMP TEST
W SYSTEM NORMAL

Note: This door will be hinged on the left/lock on the right.

The display and equipment will be mounted behind a clear pane. (Security)
The door must be opened to operate the switches.

PANEL OPERATING INSTRUCTIONS

SWITCH AND BUTTON OPERATION

FAN SWITCH: ROTATE TO OFF, AUTO, OR ON POSITION
LAMP TEST BUTTON: PUSH BUTTON TO LIGHT ALL LEDS

W SYSTEM NORMAL. LED WILL EXTINGUISH UPON FIRE ALARM, ACTIVATION OF SWITCH, OR MONITORED FAULT CONDITION

FAN OR DAMPER STATUS LEDS
- 🟢 FAN OR DAMPER STATUS IS ON OR OPEN.
- 🔴 FAN OR DAMPER STATUS IS OFF OR CLOSED.
- 🟡 FAN OR DAMPER STATUS IS IN FAULT.

Door Finish:
(X) Black Texture. (Standard Interior)
( ) Stainless Steel. (Standard Exterior)
( ) Other ____________________.

1 **SMOKE CONTROL PANEL - FIRE ALARM**
NO SCALE