LEGEND

SYMBOL	DESCRIPTION
	LIGHTING OR POWER PANEL
	CONDUIT EXPOSED
	CONDUIT CONCEALED IN WALL OR CEILING SPACE ONLY
	CONDUIT UNDER GROUND OR FLOOR
	EXISTING CONDUIT
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT STUB OUT WITH PLASTIC BUSHING
	BRANCH CIRCUIT HOME RUN (#12 CONDUCTORS AND #12 GROUND, UNO)
	GROUNDING ELECTRODE PER CODES
	FLEXIBLE CONDUIT
J J	CODE SIZED JUNCTION BOX WITH COVER PLATE
	DUPLEX RECEPTACLE GFCI TYPE WITH WEATHER=PROOF IN USE LOCKABLE COVER
	SPECIAL EQUIP CONNECTION WITH LIQUID TIGHT FLEX TO MATCH EQUIPMENT
	DEMO EXISTING EQUIPMENT AS SHOWN
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM REMOTE LCD ANNUNCIATOR
NAC	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
MAP	FIRE ALARM GRAPHIC MAP
AES	AES RADIO DIALER FOR MONITORING
SD	FIRE ALARM SMOKE DETECTOR, S=SOUNDER BASE
SD D	FIRE ALARM DUCT SMOKE DETECTOR
H	FIRE ALARM FIXED HEAT DETECTOR, S=SOUNDER BASE, FD=FIXED DUAL CONTACT
CO	FIRE ALARM COMBINATION SMOKE/CARBON MONOXIDE DETECTOR, S=SOUNDER BASE
F	FIRE ALARM CONNECTION, TYPE AS NOTED ON PLANS
M	FIRE ALARM MONITOR MODULE
F	FIRE ALARM HORN/STROBE
	WALL MOUNTED FIRE ALARM STROBE, C=CEILING MOUNTED
	CEILING MOUNTED FIRE ALARM HORN/STROBE
S	CEILING MOUNTED FIRE ALARM SPEAKER, W=WALL MOUNTED
F	FIRE ALARM MANUAL PULL STATION, DUAL ACTION TYPE WITH PROTECTIVE COVER
WF	SPRINKLER WATERFLOW SWITCH PROVIDE POINT MODULE
TS	SPRINKLER TAMPER SWITCH PROVIDE POINT MODULE
PS	SPRINKLER PRESSURE SWITCH PROVIDE POINT MODULE
J	COMBINATION FIRE/SMOKE DAMPER
B	EXISTING FIRE ALARM NOTIFICATION DEVICE
RI	REMOTE INDICATOR/TEST STATION
RM	RELAY MODULE
DH	DOOR HOLDER
CNM	FIRE ALARM CONTROL NAC MODULE
SYNC	SYNC MODULE
	DUPLEX RECEPTACLE
C	TELECOMMUNICATIONS OUTLET
	EXISTING LOCKDOWN BUTTON

EXISTING FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
FSA GMAP	EXISTING FIRE ALARM REMOTE ANNUNCIATOR
	EXISTING GRAPHIC MAP
	EXISTING FIRE ALARM SMOKE DETECTOR
	EXISTING FIRE ALARM HEAT DETECTOR
	EXISTING WALL MOUNTED FIRE ALARM HORN/STROBE
	EXISTING CEILING MOUNTED FIRE ALARM HORN/STROBE
	EXISTING WALL MOUNTED FIRE ALARM STROBE
TS	EXISTING SPRINKLER TAMPER SWITCH WITH POINT MODULE
FS	EXISTING SPRINKLER WATERFLOW SWITCH WITH POINT MODULE
	EXISTING DOOR HOLDER

ABBREVIATIONS

ABBRV	DESCRIPTION	ABBRV	DESCRIPTION
ACP	ACCESSIBLE CARD PATH	MH	MANHOLE
AC	AIR CONDITIONER	MDF	MAIN DISTRIBUTION FRAME
AFF	ABOVE FINISHED FLOOR	MDP	MAIN DISTRIBUTION PANEL
AFC	AVAILABLE FAULT CURRENT	M.C.	MECHANICAL CONTRACTOR
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUG ONLY
AL	ALUMINUM	MRS	MOTOR RATED SWITCH
BKR	BREAKER	MW	MICROWAVE
C	CONDUIT	(N)	NEW
CKT	CIRCUIT	N	NEUTRAL
C.O.	CONDUIT AND PULL WIRE ONLY	NEC	NATIONAL ELECTRICAL CODE
COMM	COMMUNICATION	NTS	NOT TO SCALE
CU	COPPER	OFCI	OWNER-FURNISHED,CONTRACTOR-INSTALLED
C/S	CLOCK SPEAKER	OFOI	OWNER-FURNISHED,OWNER-INSTALLED
CTRL	CONTROL	OL	OVERLOAD
DEMO	DEMOLISH, DEMOLITION	P	PHASE, POLE
DISC.	DISCONNECT	PNL	PANEL
DW	DISH WASHER	PS	PROJECTION SCREEN
(E)	EXISTING	PV	PHOTOVOLTAIC
EA	EACH	RCPT	RECEPTACLE
E.C.	ELECTRICAL CONTRACTOR	(RE)	REMOVE AND REPLACE EXISTING DEVICE
ECB	ENCLOSED CIRCUIT BREAKER	(R)	REVISED
EF	EXHAUST FAN	REX	REQUEST-TO-EXIT
EQP	EQUIPMENT	RH	RANGE HOOD
FAAP	FIRE ALARM ANNUNCIATOR PANEL	RNG	RANGE
FACP	FIRE ALARM CONTROL PANEL	REF	REFRIGERATOR
FLR	FLOOR	SDP	SECONDARY DISTRIBUTION PNL
F	FURNACE	SPECS	SPECIFICATIONS
(F)	FUTURE	SW	SWITCH
G.C.	GENERAL CONTRACTOR	SPD	SURGE PROTECTION DEVICE
GD	GARBAGE DISPOSAL	STB	SHUNT-TRIP BREAKER
GFI	GROUND FAULT INTERRUPTER	TEL	TELEPHONE
G, GND	GROUND	TELCOM	TELECOMMUNICATION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	THRU	THROUGH
GFP	GROUND FAULT PROTECTION	TYP	TYPICAL
HH	HANDHOLE	UNO	UNLESS NOTED OTHERWISE
IDF	INTERMEDIATE DISTRIBUTION FRAME	W	WIRE
IR	IRRIGATION	W	WASHER
LTG	LIGHTING	WH	WATER HEATER
LCC	LIGHTING CONTROL CENTER	WP	WEATHER PROOF
LV	LOW-VOLTAGE	XFMR	TRANSFORMER
MECH	MECHANICAL		

GENERAL SEQUENCE NOTES

1. COORDINATE ALL WORK WITH KCHA AND SITE MANAGEMENT PRIOR TO WORK.
2. CALL MONITORING AGENCY TO SET THE FIRE ALARM SYSTEM TEST MODE PRIOR TO ANY WORK.
3. PROVIDE A SEQUENCE OF WORK PRIOR TO WORK. SEQUENCE TO INCLUDE TYPE OF WORK, DATE, TIME START, TIME END, ANY FIRE WATCH REQUIREMENT, AND DESCRIPTION OF WORK.
4. THE FOLLOWING IS AN OPINION OF SEQUENCE OF MAINTAINING EXISTING FIRE ALARM SYSTEM UNTIL NEW FIRE ALARM SYSTEM IS OPERATIONAL, TESTED, AND PASSED BY FIRE MARSHAL. CONTRACTOR IS RESPONSIBLE TO PROVIDE A SEQUENCE OF REPLACEMENT TO THE OWNER AND GET IT APPROVED.
5. PROVIDE LABELING PER SPECIFICATIONS.
6. FIRE ALARM CONTRACTOR TO PROVIDE SHOP DRAWINGS PER RCW 39.04.290 AND GET APPROVAL FROM AHJ, SUBMIT SHOP DRAWINGS DIRECTLY TO THE KCHA PROJECT TEAM, AND ENGINEER OF RECORD FOR FINAL APPROVAL.
7. PRE-BUILD AND PROGRAM ALL NEW FIRE ALARM PANEL PRIOR TO INSTALLATION IN FIELD.
8. DURING FIRE ALARM PRE-TEST AND FULL FUNCTION TESTING FIRE ALARM CONTRACTOR TO DO A FULL "RED LINE" AS-BUILT DRAWINGS OF ALL EXISTING FIRE ALARM DETECTORS, DEVICES, AUDIO, VISUAL, FIRE/SMOKE DAMPER, MECHANICAL UNIT CONNECTIONS, RELAY INTERFACES, ETC. CONTRACTOR SHALL SUBMIT IT TO KCHA A COMPLETE AS-BUILT DRAWINGS OF ALL EXISTING FIRE ALARM SYSTEM. FIRE ALARM CONTRACTOR TO PROVIDE A RECOMMENDATION OF DEFICIENCIES MARK IN BLUE ON THE RED LINE AS-BUILT DRAWINGS.
9. CONTRACTOR TO BE RESPONSIBLE TO PROVIDE ALL NFPA-72 FIRE ALARM TESTING DOCUMENTS MARKED UP AS-BUILT DRAWINGS, INPUT AND OUTPUT TEST MATRIX, AND FORMS. COORDINATE ALL WORK AND TESTING INSPECTIONS WITH OWNER.
10. SEQUENCE 1 - START WITH MAIN FIRE ALARM PANEL IN THE 1ST FLOOR ELECTRICAL/MECHANICAL ROOM. TRACE ALL EXISTING FIRE ALARM CABLING TO EXISTING FIRE ALARM FIELD DEVICES AND LABEL. PROVIDE A FULL TEST OF THE EXISTING FIRE ALARM PANEL DEVICES AND FUNCTIONS. PROVIDE GUTTER OR TERMINAL CABINET ABOVE EXISTING FIRE ALARM PANEL TO DO THE CUT OVER FROM EXISTING FIRE ALARM PANEL TO NEW FIRE ALARM PANEL. DISCONNECT SOURCE POWER TO EXISTING FIRE ALARM PANEL. PLACE THE EXISTING FIRE ALARM PANEL AND NAC PANELS ON THE FLOOR TEMPORARY AND EXTEND POWER WIRING AND FIRE ALARM CABLING TO THEM. INSTALL NEW FIRE ALARM PANEL AND NAC PANELS IN THE SAME LOCATION AS THE EXISTING FIRE ALARM EQUIPMENT.
11. INSTALL NEW AES RADIO PANEL WITH ANTENNA. CONTRACTOR TO COORDINATE WITH SMITH FIRE TO INSTALLATION OF NEW AES RADIO WITH ANTENNA. PROGRAM NEW FIRE ALARM PANEL TO TRANSMIT EVENT SIGNALS TO CENTRAL STATION MONITORING. PROVIDE A TEST PER NFPA-72. PROVIDE A FULL TEST OF THE EXISTING FIRE ALARM PANEL DEVICES AND FUNCTIONS.
12. SEQUENCE 2 - WORK 0N 1ST FLOOR INSTALL NEW DEVICES ADJACENT TO THE EXISTING FIRE ALARM DEVICES. PROVIDE A TEST PER NFPA-72. PROVIDE A FULL TEST OF THE EXISTING AND NEW FIRE ALARM DEVICES FUNCTIONS.
13. SEQUENCE 3 - WORK 0N 2ND FLOOR INSTALL NEW DEVICES ADJACENT TO THE EXISTING FIRE ALARM DEVICES. PROVIDE A TEST PER NFPA-72. PROVIDE A FULL TEST OF THE EXISTING AND NEW FIRE ALARM DEVICES FUNCTIONS.
14. SEQUENCE 4 - WORK 0N 3RD FLOOR INSTALL NEW DEVICES ADJACENT TO THE EXISTING FIRE ALARM DEVICES. PROVIDE A TEST PER NFPA-72. PROVIDE A FULL TEST OF THE EXISTING AND NEW FIRE ALARM DEVICES FUNCTIONS.
15. SEQUENCE 5 - FINAL CUTOVER AFTER NEW FIRE ALARM SYSTEM HAS INSTALLED AND IN OPERATION COMPLETE. REMOVE THE EXISTING FIRE ALARM SYSTEM.
16. PROVIDE ELECTRICAL INSPECTION PER EACH SEQUENCE. PROVIDE ELECTRICAL REPORT. FIX ANY ISSUES FOUND DURING ELECTRICAL INSPECTION.
17. TEST THE NEW FIRE ALARM SYSTEM WITH THE CONNECT TO THE AES RADIO. RECONNECT ALL EXISTING WIRING AND CABLING AND PROVIDE A TEST PER NFPA-72. PROVIDE A FULL TEST OF THE EXISTING DEVICES AND FUNCTIONS THAT WERE MAINTAIN DURING THE FIRE ALARM INSTALLATION.
18. PROVIDE LABELING PER SPECIFICATIONS.
19. PROVIDE PRE-TEST AND FULL FUNCTION TESTING OF ALL DOOR HOLDERS, DOOR RELEASES, ELEVATOR CONTROL RECALL, FIRE/SMOKE DAMPERS, AND HVAC UNITS SHUTDOWN PER EACH SEQUENCE. PROVIDE PRE-TEST COMMISSIONING REPORT. FIX ANY ISSUES FOUND DURING PRE-TEST. CONTRACTOR TO COORDINATE WITH SMITH FIRE AND ELEVATOR SERVICE ON TASK FOR TESTING WITH THE FIRE MARSHAL AT FINAL.
20. FIRE MARSHAL FINAL TEST, COMMISSIONING, AND FULL FUNCTION TESTING OF ALL DOOR HOLDERS, DOOR RELEASES, ELEVATOR CONTROL RECALL, FIRE/SMOKE DAMPERS, AND HVAC UNITS SHUTDOWN. PROVIDE FINAL TEST REPORT.
21. PROVIDE CLOSEOUT DOCUMENTS.
22. SEQUENCE 6 - DEMO EXISTING FIRE ALARM SYSTEM AFTER NEW FIRE ALARM SYSTEM HAS INSTALLED AND IN OPERATION COMPLETE. CONTRACTOR TO RETURN EXISTING AES RADIO PANEL WITH ANTENNA AND TRANSFORMER TO SMITH FIRE OR OWNER.
23. PROVIDE COVER FOR ALL OPEN J-BOXES, FIRE STOPPER, PATCH ALL HOLES, PAINT TO MATCH EXISTING, CLEAN UP ALL AREAS.

GENERAL NOTES

1. PROVIDE ALL MATERIAL AND LABOR RELATED TO THE INSTALLATION OF ELECTRICAL DEVICES PENETRATING INTO OR THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS, SUCH THAT THE FIRE RATING OF THE WALL IS MAINTAINED.
2. DO NOT TAKE MEASUREMENTS FROM PLANS FOR DEVICE LOCATIONS. FIELD VERIFY EXACT DEVICE AND EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS WITH OWNER'S REPRESENTATIVE FOR PROPER INSTALLATION.
3. PROVIDE ALL BRANCH CIRCUIT CONDUCTORS/WIRES AS REQUIRED FOR COMPLETE OPERATION OF ALL DEVICES AND EQUIPMENT INDICATED.
4. REFER TO EQUIPMENT SCHEDULES FOR WIRING REQUIREMENTS NOT INDICATED ON POWER PLANS.
5. PROVIDE ALL NEW WIRING TO PANELS AND POWER DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH ONE-LINE POWER DIAGRAM.
6. CONDUIT OR OTHER ELECTRICAL COMPONENTS SHALL NOT BE INSTALLED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY STRUCTURAL ENGINEER.
7. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT, NO SHARED NEUTRAL.
8. WIRING RACE WAY SYSTEMS SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOM, MECHANICAL ROOM, AND UTILITY AREAS, OR AS OTHERWISE NOTED.
9. EXTERIOR MOUNTED ELECTRICAL DEVICES (SUCH AS DISCONNECT SWITCH, STARTER, SPEAKER, FIRE ALARM HORN, ETC.) SHALL UTILIZE NEMA-3R WEATHERPROOF COVERS.
10. ALL ONE-LINE DIAGRAMS AND CONDUIT ROUTING ARE SCHEMATIC AND DO NOT SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT WHERE INDICATED ON DRAWINGS. ALL JUNCTION BOXES, AND PULLBOXES ARE MINIMUM REQUIREMENTS. PROVIDE FITTINGS AND PULLBOXES OF ADEQUATE SIZE IN THE RACEWAY SYSTEM WHEREVER NECESSARY OR REQUIRED BY NATIONAL ELECTRICAL CODE. COORDINATE ALL CONDUIT ROUTING, PULLBOX, AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATIONS. EMPTY CONDUITS SHALL HAVE PULL WIRES.
11. DURING PRE BID SITE WALK CONTRACTOR TO EXAMINE EXISTING CONDITIONS. INCLUDE IN WORK SCOPE ALL COSTS FOR CUTTING, PATCHING AND CORE DRILLING REQUIRED TO INSTALL CONDUIT AND OTHER WIRING METHODS THROUGH EXISTING WALLS, FLOORS AND OTHER BUILDING ELEMENTS (NOT SHOWN ON DRAWINGS).
12. INSTALLATIONS SHALL COMPLY WITH ALL APPLICATIONS ACCESSIBILITY CODES.
13. ALL PENETRATIONS IN WALLS SHALL BE SEALED TO THE ORIGINAL RATING OR BETTER.
14. PROVIDE ALL FIRE WATCH AS REQUIRED DURING CONSTRUCTION IF NEEDED. COORDINATE ACCESS WITH OWNER.

DRAWING INDEX

SHEET NO.	SHEET TITLE
FA0.01	FIRE ALARM LEGEND AND GENERAL REQUIREMENTS
FA5.00	FIRE ALARM BASEMENT PLAN
FA5.01	FIRE ALARM 1ST FLOOR PLAN
FA5.02	FIRE ALARM 2ND FLOOR PLAN
FA5.03	FIRE ALARM 3RD FLOOR PLAN
FA5.10	FIRE ALARM ONE-LINE DIAGRAMS PLAN
	FIRE ALARM ASSESSMENT REPORT
	FIRE ALARM POINT LIST AND INPUT TO OUTPUT GROUP LIST

TRES WEST ENGINEERS

TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
Phone: 253.472.3300
www.treswest.com

ROGER W. LAU
STATE OF WASHINGTON
19798
REGISTERED
PROFESSIONAL ENGINEER

01/08/2025

PROJECT TITLE
KING COUNTY
HOUSING AUTHORITY
MARDI GRAS
FIRE ALARM SYSTEM
REPLACEMENT

PROJECT ADDRESS
24009 104TH AVE. SE.
KENT, WA. 98030

100% BID SET

REVISION	DATE
BID SET	01/08/2025
ISSUED	DATE

SHEET TITLE
FIRE ALARM LEGEND AND GENERAL REQUIREMENTS

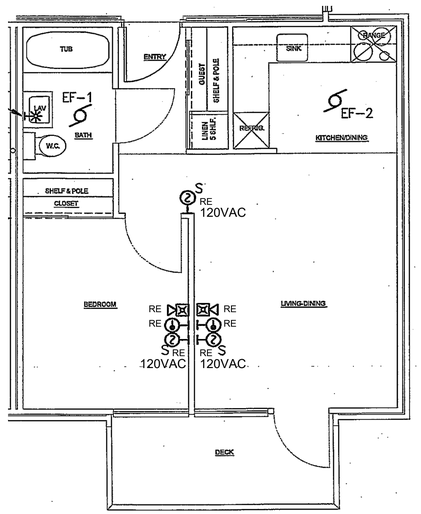
DRAWN	BCY
CHECKED	RWA
TWE JOB #	240802
CLIENT JOB #	KI2300365
SHEET SCALE	NTS

SHEET NUMBER
FA0.01

240802-FA0.01_FIRE ALARM LEGEND AND GENERAL REQUIREMENTS
1/8/2025 1:11:02 PM

EXISTING FIRE ALARM SYMBOL LEGEND

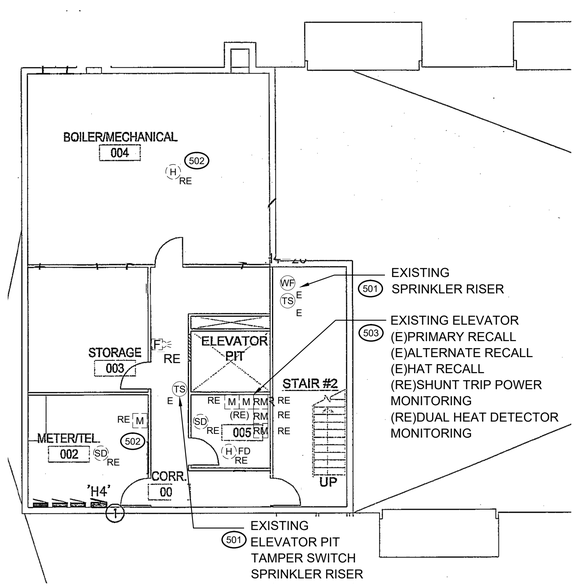
SYMBOL	DESCRIPTION
FSA / GMAP	EXISTING FIRE ALARM REMOTE ANNUNCIATOR
	EXISTING GRAPHIC MAP
	EXISTING FIRE ALARM SMOKE DETECTOR
	EXISTING FIRE ALARM HEAT DETECTOR
	EXISTING WALL MOUNTED FIRE ALARM HORN/STROBE
	EXISTING CEILING MOUNTED FIRE ALARM HORN/STROBE
	EXISTING WALL MOUNTED FIRE ALARM STROBE
TS	EXISTING SPRINKLER TAMPER SWITCH WITH POINT MODULE
FS	EXISTING SPRINKLER WATERFLOW SWITCH WITH POINT MODULE
H	EXISTING DOOR HOLDER



DEMO TYPICAL ONE BEDROOM DWELLING UNIT

SCALE: 1/4"=1'-0"

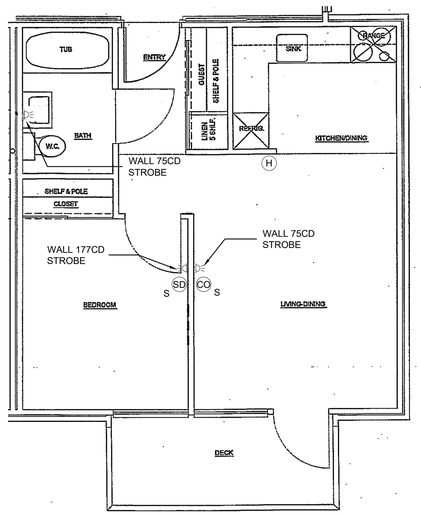
0 2' 4' 8'



FIRE ALARM BASEMENT PLAN

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

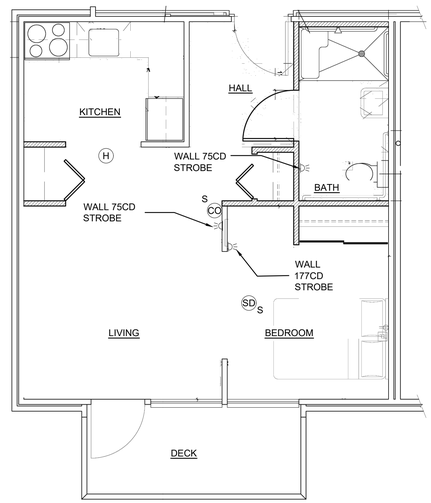
0 4' 8' 16'



TYPICAL ONE BEDROOM DWELLING UNIT

SCALE: 1/4"=1'-0"

0 2' 4' 8'



TYPICAL ADA ONE BEDROOM DWELLING UNIT

SCALE: 1/4"=1'-0"

0 2' 4' 8'

GENERAL REQUIREMENT NOTES

1. EQUIPMENT AND DEVICES SHOWN DASHED DARK AND WITH A (RE) ARE EXISTING TO BE REPLACED, UNLESS NOTED OTHERWISE. REPLACE EXISTING FIRE ALARM DEVICE WITH NEW ADDRESSABLE FIRE ALARM DEVICE. MAINTAIN EXISTING FIRE ALARM J-BOXES, AND CONDUIT AS REQUIRE BACK TO THE NEW FIRE ALARM PANEL.
2. EQUIPMENT AND DEVICES SHOWN LIGHT AND WITH A (E) ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. PROVIDE NEW INTERFACE MODULES AS REQUIRED TO RECONNECT IS EXISTING EQUIPMENT OR DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
3. ALL WORK SHALL COMPLY WITH THE LATEST NEC AND LOCAL CODE AND EXCEED CODE REQUIREMENTS WERE CALLED OUT BY KCHA PLANS AND SPECIFICATION.
4. ALL EMPTY CONDUITS SHALL INCLUDE PULL STRING.
5. UNLESS NOTED OTHERWISE ALL WIRING SHALL BE IN GALVANIZED RIGID STEEL OR EMT CONDUIT WITH MINIMUM TRADE SIZE OF 3/4-INCH.
6. COORDINATE ALL WORK WITH OWNER REPRESENTATIVE FOR WORK SCHEDULES DETAILS PRIOR TO DECOMMISSIONED, DEMOLITION, RELOCATION, SHUT DOWN OF FIRE ALARM PANELS AND PANELBOARDS & ETC.
7. PROVIDE PATCH AND PAINT AS REQUIRED FOR ALL NEW EQUIPMENT AND DEVICES.
8. PROVIDE ELECTRICAL AND FIRE ALARM WORK ACCORDING TO CONSTRUCTION PHASING SCHEDULES. AT THE END OF EACH AREA OF CONSTRUCTION PER PHASING PLANNING SCHEDULE, PROVIDE ELECTRICAL AND FIRE ALARM TESTING TO INSURE COMPLETION OF WORK IS SATISFACTORY FOR ACCEPTANCE.

PLAN NOTES

(###)

501 PROVIDE FIRE ALARM MONITOR DEVICES ON PLATE AS REQUIRE BY CODE FOR THE SPRINKLER RISER. CONNECT TO NEAREST EXISTING FIRE ALARM DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. REFER TO FIRE ALARM DIAGRAM.

502 REPLACE EXISTING FIRE ALARM DEVICE WITH THE SAME OR A DIFFERENT TYPE OF DEVICE AS SHOWN.

503 PROVIDE ELEVATOR CONTROL RELAYS AND MONITOR MODULES AS REQUIRED PER AHJ CODES. PROVIDE EQUIPMENT, DEVICES, RELAYS, I/O MODULES, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS FOR A COMPLETE OPERATION SYSTEM FOR ELEVATOR. REFER TO ELEVATOR DIAGRAM ON SHEET FA5.10.

TRES WEST ENGINEERS

TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
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www.treswest.com

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01/08/2025

PROJECT TITLE
KING COUNTY
HOUSING AUTHORITY
MARDI GRAS
FIRE ALARM SYSTEM
REPLACEMENT

PROJECT ADDRESS
24009 104TH AVE. SE.
KENT, WA. 98030

100% BID SET

REVISION	DATE
3	
2	
1	
BID SET	01/08/2025
ISSUED	DATE

SHEET TITLE
FIRE ALARM
BASEMENT PLAN

DRAWN	BCY
CHECKED	RWA
TWE JOB #	240802
CLIENT JOB #	KI2300365
SHEET SCALE	SEE SHEET

SHEET NUMBER
FA5.00

240802-FA5.00 FIRE ALARM BASEMENT.dwg
1/8/2025 11:02:36

NOTE: Unit 101 is the only (2) bedroom (1) bath

PROVIDE NEW AES RADIO ABOVE FIRE ALARM PANEL. REFER TO GENERAL SEQUENCE NOTE 11.

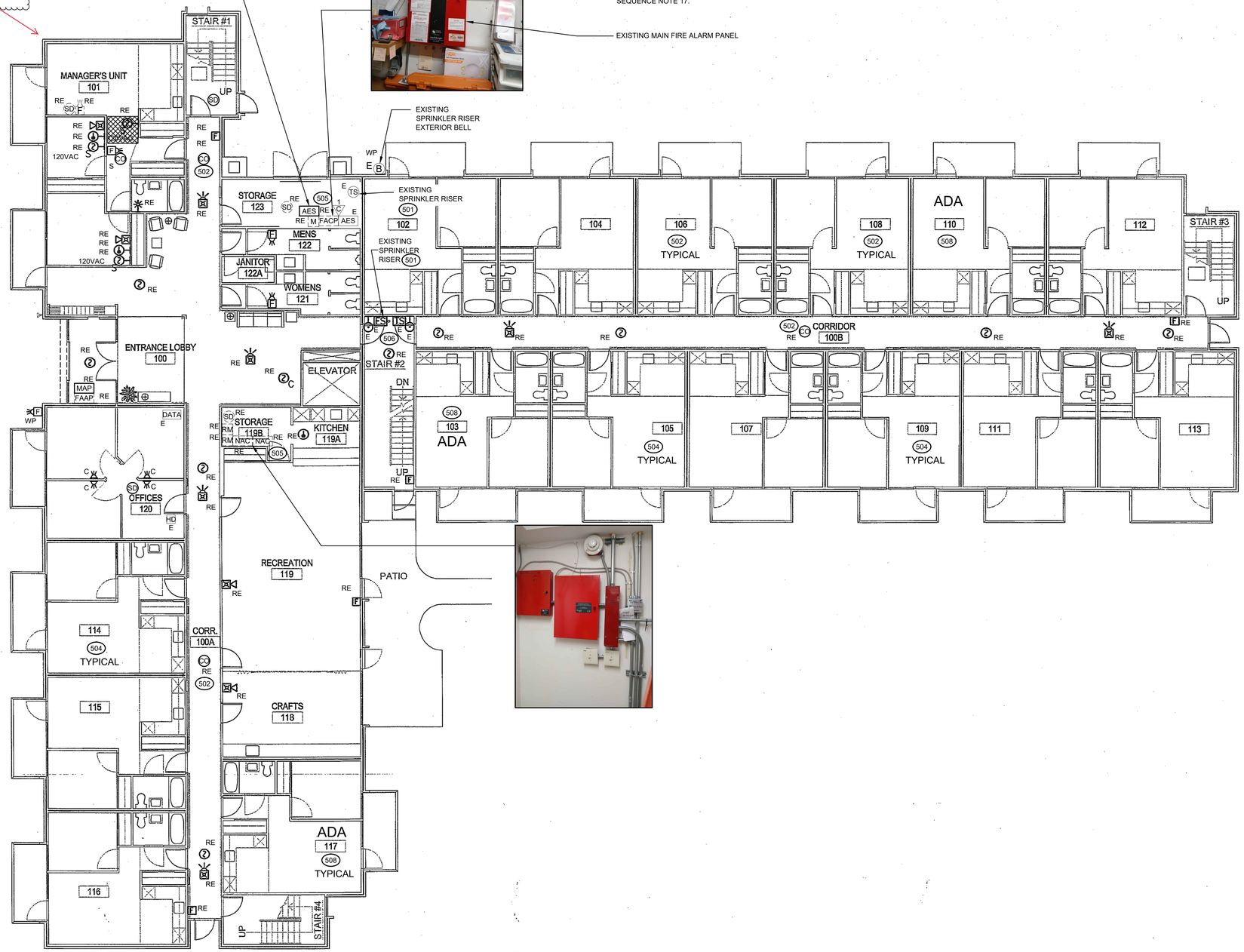
EXISTING FIRE ALARM AES RADIO DEMO AES RADIO AFTER NEW FIRE ALARM SYSTEM IS INSTALLED AND TESTED. REFER TO GENERAL SEQUENCE NOTE 17.

EXISTING MAIN FIRE ALARM PANEL

EXISTING SPRINKLER RISER EXTERIOR BELL

EXISTING SPRINKLER RISER

EXISTING SPRINKLER RISER



E PIV TS E TS E

501 EXISTING SPRINKLER BACKFLOW TAMPER SWITCHES IN A VAULT AND PIV 50-FEET WEST OF BUILDING.

240802-FA5.01 FIRE ALARM 1ST FLOOR.dwg
1/8/2025 11:02:36

FIRE ALARM 1ST FLOOR PLAN

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

0 4 8 16

GENERAL REQUIREMENT NOTES

1. EQUIPMENT AND DEVICES SHOWN DASHED DARK AND WITH A (RE) ARE EXISTING TO BE REPLACED, UNLESS NOTED OTHERWISE. REPLACE EXISTING FIRE ALARM DEVICE WITH NEW ADDRESSABLE FIRE ALARM DEVICE. MAINTAIN EXISTING FIRE ALARM J-BOXES, AND CONDUIT AS REQUIRE BACK TO THE NEW FIRE ALARM PANEL.
2. EQUIPMENT AND DEVICES SHOWN LIGHT AND WITH A (E) ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. PROVIDE NEW INTERFACE MODULES AS REQUIRED TO RECONNECT IS EXISTING EQUIPMENT OR DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
3. ALL WORK SHALL COMPLY WITH THE LATEST NEC AND LOCAL CODE AND EXCEED CODE REQUIREMENTS WERE CALLED OUT BY KCHA PLANS AND SPECIFICATION.
4. ALL EMPTY CONDUITS SHALL INCLUDE PULL STRING.
5. UNLESS NOTED OTHERWISE ALL WIRING SHALL BE IN GALVANIZED RIGID STEEL OR EMT CONDUIT WITH MINIMUM TRADE SIZE OF 3/4-INCH.
6. COORDINATE ALL WORK WITH OWNER REPRESENTATIVE FOR WORK SCHEDULES DETAILS PRIOR TO DECOMMISSIONED, DEMOLITION, RELOCATION, SHUT DOWN OF FIRE ALARM PANELS AND PANELBOARDS & ETC.
7. PROVIDE PATCH AND PAINT AS REQUIRED FOR ALL NEW EQUIPMENT AND DEVICES.
8. PROVIDE ELECTRICAL AND FIRE ALARM WORK ACCORDING TO CONSTRUCTION PHASING SCHEDULES. AT THE END OF EACH AREA OF CONSTRUCTION PER PHASING PLANNING SCHEDULE, PROVIDE ELECTRICAL AND FIRE ALARM TESTING TO INSURE COMPLETION OF WORK IS SATISFACTORY FOR ACCEPTANCE.

PLAN NOTES

(####)

501 PROVIDE FIRE ALARM MONITOR DEVICES ON PLATE AS REQUIRE BY CODE FOR THE SPRINKLER RISER. CONNECT TO NEAREST EXISTING FIRE ALARM DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. REFER TO FIRE ALARM DIAGRAM.

502 REPLACE EXISTING FIRE ALARM DEVICE WITH SAME OR DIFFERENT TYPE OF DEVICE AS SHOWN.

504 REFER TO TYPICAL DWELLING UNIT LAYOUT FLOOR PLAN SHEET FA5.00.

505 PROVIDE GUTTER TERMINAL CABINET ABOVE EXISTING FIRE ALARM PANEL TO DO THE CUT OVER FROM EXISTING FIRE ALARM PANEL TO NEW FIRE ALARM PANEL. PROVIDE TEMPORARY EXTEND POWER WIRING AND FIRE ALARM CABLING TO EXISTING FIRE ALARM PANEL AND NAC PANELS ON FLOOR.

506 REPLACE EXISTING FIRE ALARM CONTROL RELAY DEVICE WITH SAME TYPE. TRACE EXISTING POWER SOURCE AND CONTROL RELAY LOCATION. PROVIDE THIS INFORMATION ON THE FIRE ALARM AS-BUILT DRAWINGS.

508 REFER TO TYPICAL ADA DWELLING UNIT LAYOUT FLOOR PLAN SHEET FA5.00.

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HOUSING AUTHORITY
MARDI GRAS
FIRE ALARM SYSTEM
REPLACEMENT

PROJECT ADDRESS
24009 104TH AVE. SE.
KENT, WA. 98030

100% BID SET

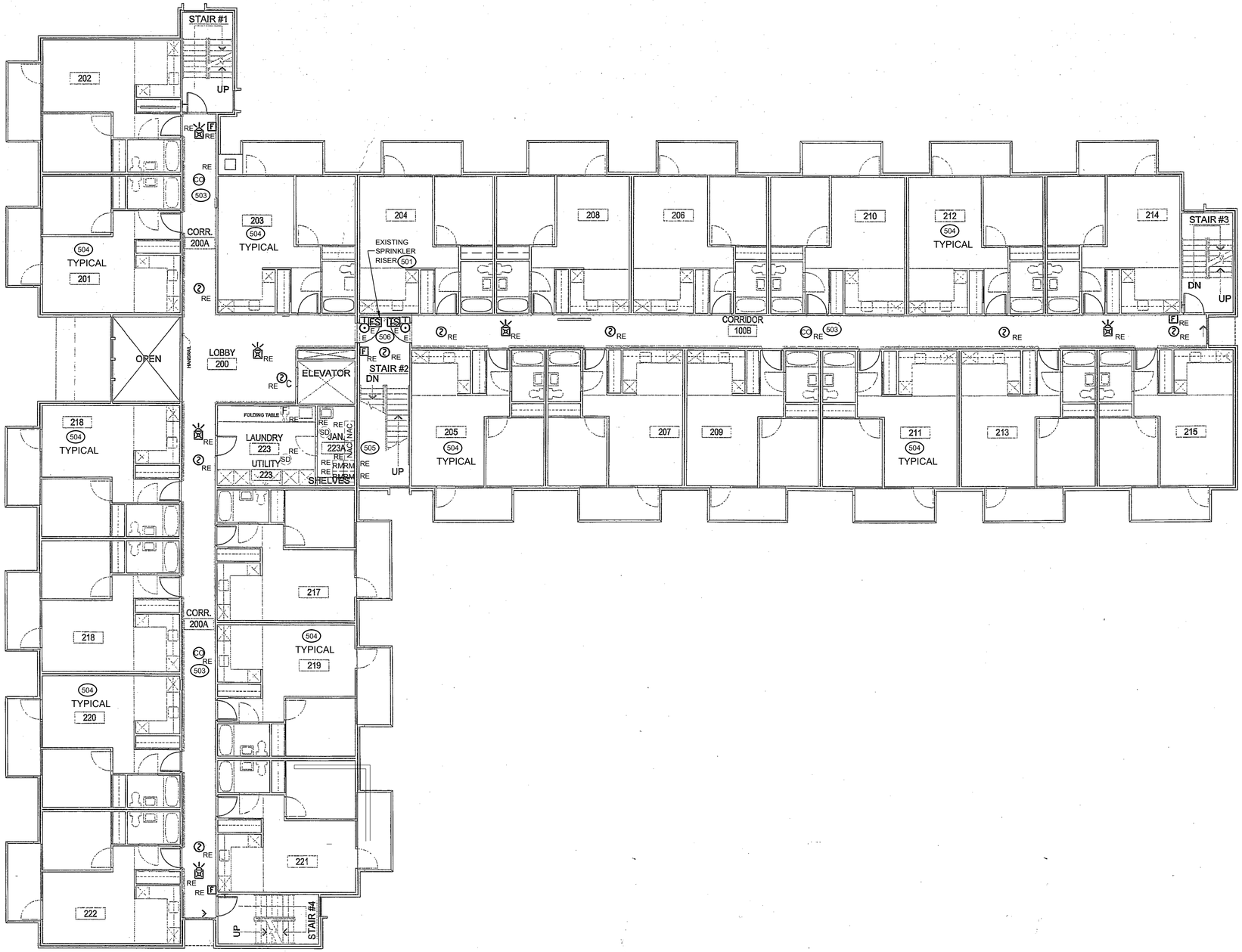
3
2
1

REVISION	DATE
BID SET	01/08/2025
ISSUED	DATE

SHEET TITLE
FIRE ALARM 1ST FLOOR PLAN

DRAWN	BCY
CHECKED	RWA
TWE JOB #	240802
CLIENT JOB #	KI2300365
SHEET SCALE	SEE SHEET

SHEET NUMBER
FA5.01



GENERAL REQUIREMENT NOTES

1. EQUIPMENT AND DEVICES SHOWN DASHED DARK AND WITH A (RE) ARE EXISTING TO BE REPLACED, UNLESS NOTED OTHERWISE. REPLACE EXISTING FIRE ALARM DEVICE WITH NEW ADDRESSABLE FIRE ALARM DEVICE. MAINTAIN EXISTING FIRE ALARM J-BOXES, AND CONDUIT AS REQUIRE BACK TO THE NEW FIRE ALARM PANEL.
2. EQUIPMENT AND DEVICES SHOWN LIGHT AND WITH A (E) ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. PROVIDE NEW INTERFACE MODULES AS REQUIRED TO RECONNECT IS EXISTING EQUIPMENT OR DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
3. ALL WORK SHALL COMPLY WITH THE LATEST NEC AND LOCAL CODE AND EXCEED CODE REQUIREMENTS WERE CALLED OUT BY KCHA PLANS AND SPECIFICATION.
4. ALL EMPTY CONDUITS SHALL INCLUDE PULL STRING.
5. UNLESS NOTED OTHERWISE ALL WIRING SHALL BE IN GALVANIZED RIGID STEEL OR EMT CONDUIT WITH MINIMUM TRADE SIZE OF 3/4-INCH.
6. COORDINATE ALL WORK WITH OWNER REPRESENTATIVE FOR WORK SCHEDULES DETAILS PRIOR TO DECOMMISSIONED, DEMOLITION, RELOCATION, SHUT DOWN OF FIRE ALARM PANELS AND PANELBOARDS & ETC.
7. PROVIDE PATCH AND PAINT AS REQUIRED FOR ALL NEW EQUIPMENT AND DEVICES.
8. PROVIDE ELECTRICAL AND FIRE ALARM WORK ACCORDING TO CONSTRUCTION PHASING SCHEDULES. AT THE END OF EACH AREA OF CONSTRUCTION PER PHASING PLANNING SCHEDULE, PROVIDE ELECTRICAL AND FIRE ALARM TESTING TO INSURE COMPLETION OF WORK IS SATISFACTORY FOR ACCEPTANCE.

PLAN NOTES

(###)

501 PROVIDE FIRE ALARM MONITOR DEVICES ON PLATE AS REQUIRE BY CODE FOR THE SPRINKLER RISER. CONNECT TO NEAREST EXISTING FIRE ALARM DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. REFER TO FIRE ALARM DIAGRAM.

502 REPLACE EXISTING FIRE ALARM DEVICE WITH A SAME OR DIFFERENT TYPE OF DEVICE AS SHOWN.

504 REFER TO TYPICAL DWELLING UNIT LAYOUT FLOOR PLAN SHEET FA5.01 & FA5.02.

505 PROVIDE GUTTER TERMINAL CABINET ABOVE EXISTING FIRE ALARM PANEL TO DO THE CUT OVER FROM EXISTING FIRE ALARM PANEL TO NEW FIRE ALARM PANEL. PROVIDE TEMPORARY EXTEND POWER WIRING AND FIRE ALARM CABLING TO EXISTING FIRE ALARM PANEL AND NAC PANELS ON FLOOR.

506 REPLACE EXISTING FIRE ALARM CONTROL RELAY DEVICE WITH SAME TYPE. TRACE EXISTING POWER SOURCE AND CONTROL RELAY LOCATION. PROVIDE THIS INFORMATION ON THE FIRE ALARM AS-BUILT DRAWINGS.

FIRE ALARM 2ND FLOOR PLAN

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

0 4' 8' 16'

240802-FA5.02 FIRE ALARM 2ND FLOOR.dwg
1/8/2025 11:02:36

TRES WEST ENGINEERS

TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
Phone: 253.472.3300
www.treswest.com

ROGER W. K. ALT
STATE OF WASHINGTON
19798
REGISTERED
PROFESSIONAL ENGINEER

01/08/2025

PROJECT TITLE
KING COUNTY
HOUSING AUTHORITY
MARDI GRAS
FIRE ALARM SYSTEM
REPLACEMENT

PROJECT ADDRESS
24009 104TH AVE. SE.
KENT, WA. 98030

100% BID SET

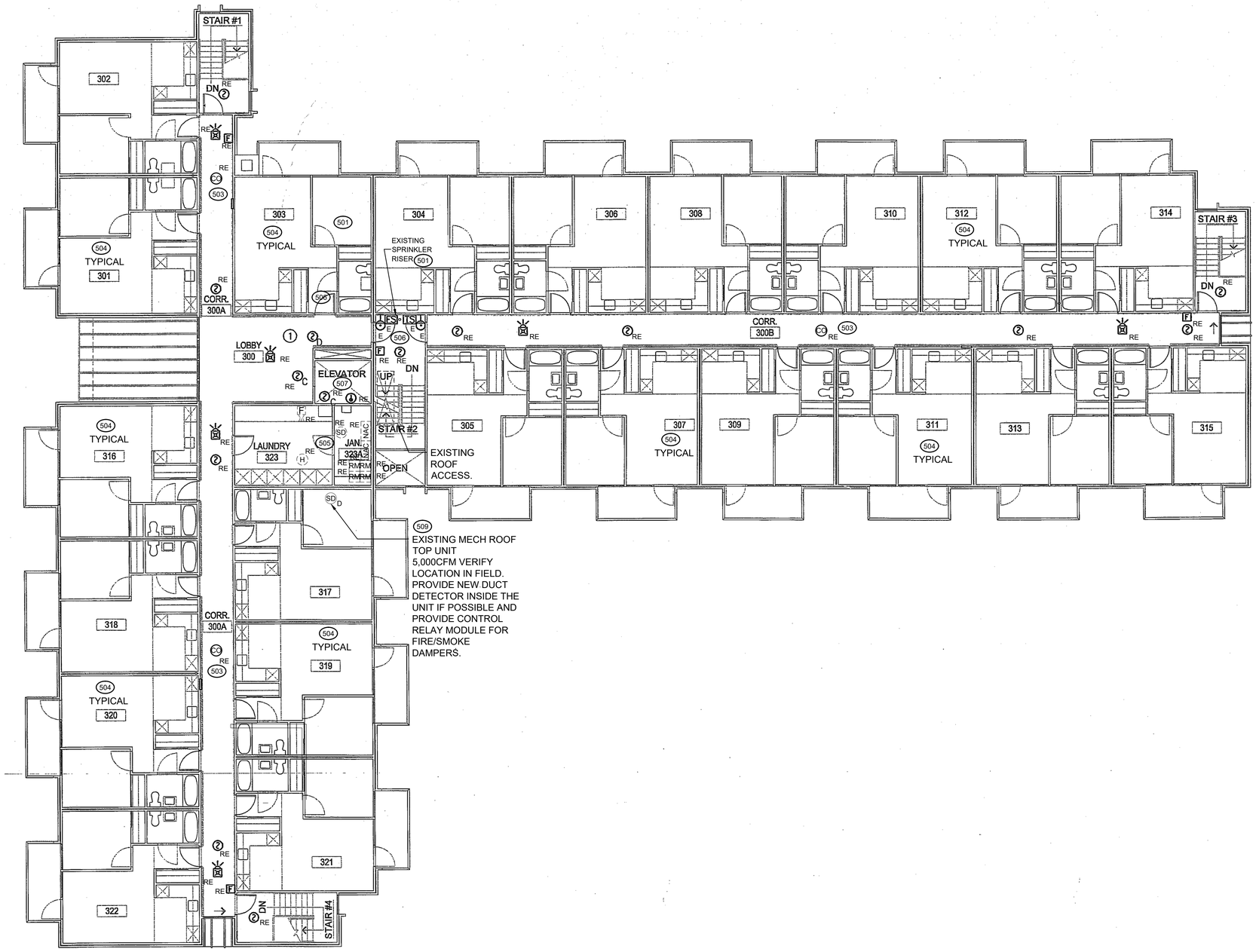
3
2
1

REVISION	DATE
BID SET	01/08/2025
ISSUED	DATE

SHEET TITLE
FIRE ALARM 2ND FLOOR PLAN

DRAWN	BCY
CHECKED	RWA
TWE JOB #	240802
CLIENT JOB #	KI2300365
SHEET SCALE	SEE SHEET

SHEET NUMBER
FA5.02



FIRE ALARM 3RD FLOOR PLAN

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

0 4 8 16'

GENERAL REQUIREMENT NOTES

1. EQUIPMENT AND DEVICES SHOWN DASHED DARK AND WITH A (RE) ARE EXISTING TO BE REPLACED, UNLESS NOTED OTHERWISE. REPLACE EXISTING FIRE ALARM DEVICE WITH NEW ADDRESSABLE FIRE ALARM DEVICE. MAINTAIN EXISTING FIRE ALARM J-BOXES, AND CONDUIT AS REQUIRE BACK TO THE NEW FIRE ALARM PANEL.
2. EQUIPMENT AND DEVICES SHOWN LIGHT AND WITH A (E) ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. PROVIDE NEW INTERFACE MODULES AS REQUIRED TO RECONNECT IS EXISTING EQUIPMENT OR DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
3. ALL WORK SHALL COMPLY WITH THE LATEST NEC AND LOCAL CODE AND EXCEED CODE REQUIREMENTS WERE CALLED OUT BY KCHA PLANS AND SPECIFICATION.
4. ALL EMPTY CONDUITS SHALL INCLUDE PULL STRING.
5. UNLESS NOTED OTHERWISE ALL WIRING SHALL BE IN GALVANIZED RIGID STEEL OR EMT CONDUIT WITH MINIMUM TRADE SIZE OF 3/4-INCH.
6. COORDINATE ALL WORK WITH OWNER REPRESENTATIVE FOR WORK SCHEDULES DETAILS PRIOR TO DECOMMISSIONED, DEMOLITION, RELOCATION, SHUT DOWN OF FIRE ALARM PANELS AND PANELBOARDS & ETC.
7. PROVIDE PATCH AND PAINT AS REQUIRED FOR ALL NEW EQUIPMENT AND DEVICES.
8. PROVIDE ELECTRICAL AND FIRE ALARM WORK ACCORDING TO CONSTRUCTION PHASING SCHEDULES. AT THE END OF EACH AREA OF CONSTRUCTION PER PHASING PLANNING SCHEDULE, PROVIDE ELECTRICAL AND FIRE ALARM TESTING TO INSURE COMPLETION OF WORK IS SATISFACTORY FOR ACCEPTANCE.

PLAN NOTES

(###)

501 PROVIDE FIRE ALARM MONITOR DEVICES ON PLATE AS REQUIRE BY CODE FOR THE SPRINKLER RISER. CONNECT TO NEAREST EXISTING FIRE ALARM DEVICE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. REFER TO FIRE ALARM DIAGRAM.

502 REPLACE EXISTING FIRE ALARM DEVICE WITH A SAME OR DIFFERENT TYPE OF DEVICE AS SHOWN.

504 REFER TO TYPICAL DWELLING UNIT LAYOUT FLOOR PLAN SHEET FA5.01 & FA5.02.

505 PROVIDE GUTTER TERMINAL CABINET ABOVE EXISTING FIRE ALARM PANEL TO DO THE CUT OVER FROM EXISTING FIRE ALARM PANEL TO NEW FIRE ALARM PANEL. PROVIDE TEMPORARY EXTEND POWER WIRING AND FIRE ALARM CABLING TO EXISTING FIRE ALARM PANEL AND NAC PANELS ON FLOOR.

506 REPLACE EXISTING FIRE ALARM CONTROL RELAY DEVICE WITH SAME TYPE. TRACE EXISTING POWER SOURCE AND CONTROL RELAY LOCATION. PROVIDE THIS INFORMATION ON THE FIRE ALARM AS-BUILT DRAWINGS.

507 FIELD VERIFY EXISTING FIRE ALARM SMOKE AND HEAT DETECTORS AT THE TOP OF ELEVATOR HOISTWAY. THIS INFORMATION WAS ON THE FIRE ALARM AS-BUILT DRAWINGS. IF THERE IS A SPRINKLER HEAD AT THE TOP OF THE ELEVATOR HOISTWAY IT IS REQUIRED TO HAVE BOTH SMOKE AND HEAT DETECTORS INSTALLED. IF THERE IS NO SPRINKLER HEAD AND THE ELEVATOR MOTOR IS AT THE TOP OF ELEVATOR HOISTWAY A SMOKE DETECTOR IS REQUIRED ABOVE THE MOTOR. MAKE SURE THAT THE S DETECTORS ARE ASSESSABLE BY LADDER ON TOP OF THE ELEVATOR CAB. PROVIDE THIS INFORMATION ON THE FIRE ALARM AS-BUILT DRAWINGS.

509 REFER TO FIRE ALARM ASSESSMENT REPORT EXISTING FIRE ALARM SYSTEM INTERFACE INFORMATION SECTION #3 DUCT DETECTOR FOR ADDITIONAL INFORMATION.

TRES WEST ENGINEERS

TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
Phone: 253.472.3300
www.treswest.com

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01/08/2025

PROJECT TITLE
KING COUNTY
HOUSING AUTHORITY
MARDI GRAS
FIRE ALARM SYSTEM
REPLACEMENT

PROJECT ADDRESS
24009 104TH AVE. SE.
KENT, WA. 98030

100% BID SET

REVISION	DATE
3	
2	
1	

BID SET ISSUED	01/08/2025 DATE

SHEET TITLE
FIRE ALARM 3RD FLOOR PLAN

DRAWN	BCY
CHECKED	RWA
TWE JOB #	240802
CLIENT JOB #	KI2300365
SHEET SCALE	SEE SHEET

SHEET NUMBER
FA5.03

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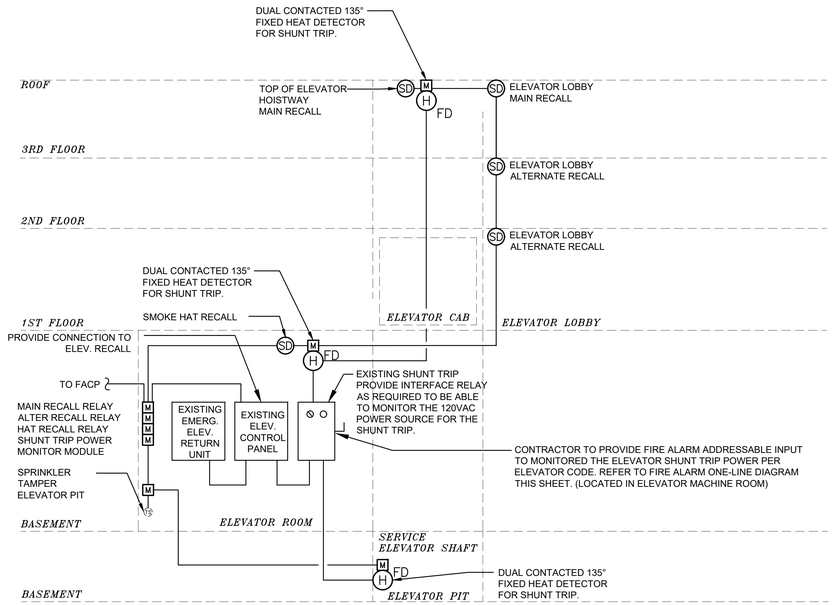
King County Housing Authority Mandi Gras Apartments Building Fire Alarm Control Panel FACP General Input and Output Matrix		System Outputs															
		LATCHING	NON-LATCHING	ACTIVATION OF LOCAL ALARM AT FACP (LCD DISP. AUDIBLE INDICATION)	DISPLAY ALARM AT ANNUCIATOR	ACTIVATE ALL AUDIBLE/VISIBLE DEVICES & INCLUDING ALL DWELLING UNIT.	RELEASE DOOR HOLDERS AND SHUTDOWN COILING DOORS PER FLOOR	FIRE SMOKE DAMPERS	HVAC SHUNT DOWN	ELEVATOR MAIN RECALL	ELECTRICAL ALTERNATE RECALL	ELEVATOR HAT RECALL	DWELLING UNIT SOUNDER BASES AND STROBES WITHIN THE UNIT.	TRANSMIT ALARM EVENTS TO CENTRAL STATION MONITORING	TRANSMIT SUPERVISORY EVENTS TO CENTRAL STATION MONITORING	TRANSMIT GENERAL TROUBLE EVENTS TO CENTRAL STATION MONITORING
System Inputs	FIRE ALARM PANEL	X		X	X									X		X
	PULL STATIONS	X		X	X	X	X	X						X		X
	SMOKE DETECTORS	X		X	X	X	X	X	X					X		X
	ELEVATOR LOBBY 1ST SMOKE DETECTOR	X		X	X	X	X	X	X		X			X		X
	ELEVATOR LOBBY ALL OTHER SMOKE DETECTORS	X		X	X	X	X	X	X	X				X		X
	ELEVATOR MACHINE ROOM SMOKE	X		X	X	X	X	X	X		X	X		X		X
	ELEVATOR MACHINE POWER SHUNT LOSS		X	X	X										X	X
	SERVER ROOM SMOKE DETECTORS	X		X	X								X		X	X
	SERVER ROOM HEAT DETECTOR	X		X	X	X	X	X	X					X		X
	SPRINKLER WATER FLOW SWITCHES	X		X	X	X	X	X	X	X				X		X
	SPRINKLER TAMPER SWITCHES		X	X	X										X	X
	DWELLING UNIT KITCHEN HEAT DETECTOR	X		X	X	X	X	X	X				X	X		X
	DWELLING UNIT SMOKE DETECTOR		X		X	X							X		X	X
	DWELLING UNIT ANY 2 SMOKE DETECTORS	X		X	X	X	X	X	X				X	X		X

NOTES: ALL FIRE ALARM DEVICES SHALL REPORT TO CENTRAL STATION MONITORING BY POINT.

PROVIDE BYPASS SWITCHES AS REQUIRED MAINTAINING FIRE ALARM SYSTEM DURING MAINTENANCE AND ANNUAL INSPECTION.



1 FA5.10 ELEVATOR RECALL ONE-LINE DIAGRAM

SCALE:NTS

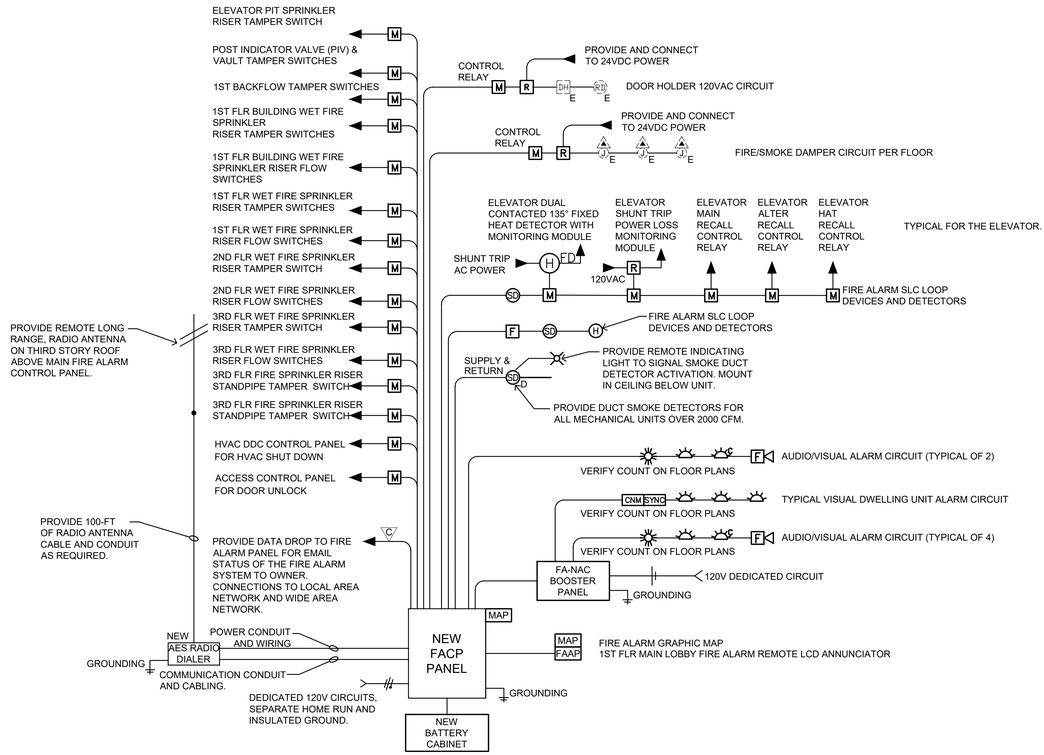
DIAGRAM NOTES:

1. CONTRACTOR TO PROVIDE ADDRESSABLE SMOKE DETECTORS IN ELEVATOR MACHINE ROOM AND ELEVATOR LOBBY FOR ELECTRICAL RECALL PROGRAM FUNCTIONS. CONTRACTOR TO PROVIDE THREE (3) ADDRESSABLE RELAY MODULES FOR ELECTRICAL RECALL MAIN, ALTERNATE, HAT PROGRAM FUNCTIONS PER ELEVATOR CODE. CONTRACTOR TO PROVIDE COMPLETE WIRING AND CONNECTIONS TO ELEVATOR CONTROLLER FOR COMPLETE OPERATION OF RECALL SYSTEM.
2. FA TO PROVIDE DUAL 120V RATED FIXED HEAT 135°F DETECTORS FOR ELEVATOR SHUNT TRIP CONTROL. FA TO PROVIDE ADDRESSABLE MINI POINT MODULES TO MONITOR HEAT DETECTORS PER ELEVATOR CODE. CONTRACTOR TO PROVIDE COMPLETE CONNECTIONS TO SHUNT TRIP COIL IN SWITCH, RELAY, AND POWER INDICATION LED LIGHT. PROVIDE NAMEPLATES ADJACENT TO DETECTORS "DO NOT TEST".
3. CONTRACTOR TO COORDINATE CONNECTION REQUIREMENTS WITH ELEVATOR SUPPLIER/CONTRACTOR PRIOR TO WORK.
4. CONTRACTOR TO PROVIDE COMPLETE POWER AND CONTROL CONNECTIONS TO ELEVATOR SYSTEM FOR COMPLETE OPERATION PER THE MANUFACTURER'S INSTRUCTIONS, WIRING DIAGRAMS, AND ALL CODES.
5. CONTRACTOR TO PROVIDE ADDRESSABLE MONITORING MODULE FOR ELEVATOR SHUNT TRIP POWER MONITORING. PROVIDE 120VAC INTERFACE RELAY INSIDE ENCLOSURE TO BE TIE INTO THE SHUNT TRIP POWER SOURCE FOR MONITORING THE POWER PER LOCAL ELEVATOR CODE.
6. CONTRACTOR TO PROVIDE ADDRESSABLE MONITORING MODULE FOR EXISTING ELEVATOR SHUNT TRIP SPRINKLER TAMPER SWITCH.
7. FIELD VERIFY EXISTING FIRE ALARM SMOKE AND HEAT DETECTORS AT THE TOP OF ELEVATOR HOISTWAY. THIS INFORMATION WAS ON THE FIRE ALARM AS-BUILT DRAWINGS. IF THERE IS A SPRINKLER HEAD AT THE TOP OF THE ELEVATOR HOISTWAY IT IS REQUIRED TO HAVE BOTH SMOKE AND HEAT DETECTORS INSTALLED. IF THERE IS NO SPRINKLER HEAD AND THE ELEVATOR MOTOR IS AT THE TOP OF ELEVATOR HOISTWAY A SMOKE DETECTOR IS REQUIRED ABOVE THE MOTOR. MAKE SURE THAT THE S DETECTORS ARE ASSESSABLE BY LADDER ON TOP OF THE ELEVATOR CAB. PROVIDE THIS INFORMATION ON THE FIRE ALARM AS-BUILT DRAWINGS.

EXISTING FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
FSA GMAP	EXISTING FIRE ALARM REMOTE ANNUNCIATOR
	EXISTING GRAPHIC MAP
	EXISTING FIRE ALARM SMOKE DETECTOR
	EXISTING FIRE ALARM HEAT DETECTOR
	EXISTING WALL MOUNTED FIRE ALARM HORN/STROBE
	EXISTING CEILING MOUNTED FIRE ALARM HORN/STROBE
	EXISTING WALL MOUNTED FIRE ALARM STROBE
TS FS	EXISTING SPRINKLER TAMPER SWITCH WITH POINT MODULE
	EXISTING SPRINKLER WATERFLOW SWITCH WITH POINT MODULE
	EXISTING DOOR HOLDER

GENERAL REQUIREMENT NOTES

3. ALL WORK SHALL COMPLY WITH THE LATEST NEC AND LOCAL CODE AND EXCEED CODE REQUIREMENTS WERE CALLED OUT BY KCHA PLANS AND SPECIFICATION.
4. ALL EMPTY CONDUITS SHALL INCLUDE PULL STRING.
5. UNLESS NOTED OTHERWISE ALL WIRING SHALL BE IN GALVANIZED RIGID STEEL OR EMT CONDUIT WITH MINIMUM TRADE SIZE OF 3/4-INCH.
6. COORDINATE ALL WORK WITH OWNER REPRESENTATIVE FOR WORK SCHEDULES DETAILS PRIOR TO DECOMMISSIONED, DEMOLITION, RELOCATION, SHUT DOWN OF FIRE ALARM PANELS AND PANELBOARDS & ETC.
7. PROVIDE PATCH AND PAINT AS REQUIRED FOR ALL NEW EQUIPMENT, DEVICES, AND DEMO AREAS.
8. PROVIDE ELECTRICAL AND FIRE ALARM WORK ACCORDING TO CONSTRUCTION PHASING SCHEDULES AT THE END OF EACH AREA OF CONSTRUCTION PER PHASING PLANNING SCHEDULE, PROVIDE ELECTRICAL AND FIRE ALARM TESTING TO INSURE COMPLETION OF WORK IS SATISFACTORY FOR ACCEPTANCE.
9. NOTE FIRE ALARM ONE-LINE DIAGRAM SYMBOLS ARE ON SHEET FA0.01 THAT DO NOT MATCH THE EXISTING AS-BUILT FIRE ALARM SYMBOLS. USE THE NAME OF THE FIRE ALARM EQUIPMENT TO MATCH UP.



2 FA5.10 FIRE ALARM SYSTEM ONE-LINE DIAGRAM

SCALE:NTS

DIAGRAM NOTES:

1. PROVIDE ALL J-BOXES, CONDUIT, WIRING & CONNECTIONS TO ALL NEW DEVICES AS REQUIRED FOR COMPLETE FIRE ALARM SYSTEM.
2. NO OPEN OR EXPOSED FIRE ALARM CABLING.
3. REFER TO FLOOR PLAN AND SPECIFICATIONS FOR DEVICE COUNTS .
4. ALL DEVICES WILL BE MOUNTED IN AN ACCESSIBLE SPACE AND AT THE ELEVATION PER NFPA 72, ADA, AND AHJ CODES.
5. PROVIDE FLUSH MOUNT BACK BOXES FOR ALL DEVICES IN ALL FINISHED SPACE.
6. PROVIDE COMPLETE GROUNDING TO EQUIPMENT PER MANUFACTURERS RECOMMENDATION.
7. SEE FIRE ALARM SPECIFICATION FOR COMPLETE DETAILS.
8. PROVIDE NEW FIRE ALARM PANEL ADDRESSABLE.
9. PROVIDE SHUT DOWN CONNECTIONS FOR ALL HVAC UNITS OVER 2000CFM AND INSTALL DUCT DETECTORS AS REQUIRED.
10. PROVIDE LOCAL GENERAL ALARM CONTROL OF EACH DUCT DETECTOR AND GLOBAL CONTROL OF ALL DUCT DETECTORS.
11. PROVIDE CONTROL DEVICE AND CONNECTIONS TO ALL EXISTING FIRE/SMOKE DAMPERS IN THE BUILDING. PROGRAM CONTROL AS A GENERAL ALARM.
12. SET ALL VISUAL DEVICES TO PROVIDE THE RIGHT COVERAGE OF CANDELA FOR THE SPACE PER NFPA 72 AND AHJ CODES.
13. SET ALL AUDIO DEVICES TO TEMPORAL AND TO BE 15dB ABOVE AMBIENT LEVEL OF THE ROOM PER NFPA 72 CODES TABLE.
14. ALL AUDIO AND VISUAL DEVICE WILL BE SYNC PER NFPA 72 CODES.
15. PROVIDE COMPLETE PROGRAMMING OF SYSTEM TO UPDATE ALL ZONES, ADDRESSES, AND DIALER MONITORING BY POINTS.
16. PROVIDE COMPLETE SHOP PLANS FOR INSTALLATION AND AS-BUILT SET OF THESE PLANS ADJACENT TO FIRE ALARM PANEL ON COMPLETION.
17. PROVIDE A COPY OF THE CLOSEOUT DOCUMENT (CUT SHEET, OPERATIONAL MANUAL, POINT LIST, INPUT AND OUTPUT GROUP LIST, AND COMPLETE FORMS) ADJACENT TO FIRE ALARM PANEL
18. PROVIDE CD-ROM, DVD, OR FINGER DRIVE OF PROGRAM DATA AND POINT LIST IN FIRE ALARM PANEL AS REQUIRED BY NFPA 72 CODES.
19. PROVIDE FIRE ALARM CURRENT AES RADIO DIALER OR EQUAL WITH REMOTE LONG RANGE ANTENNA TO MONITOR ALL FIRE ALARM LOG EVENTS (ALARM, SUPERVISORY, AND TROUBLE) TO TRANSMIT TO UL LISTED CENTRAL STATION MONITORING IN THE STATE OF WASHINGTON. COORDINATE MONITORING COMPANY WITH OWNER KCHA. MOUNT RADIO DIALER ADJACENT TO THE MAIN FIRE ALARM PANEL. TEST RADIO FOR SIGNAL WITH NORMAL ANTENNA, IF NO SIGNAL THEN MOUNT REMOTE LONG RANGE ANTENNA ON THIRD STORY ROOF TOP. COORDINATE ROUTING OF RADIO ANTENNA CONDUIT AND LOCATION OF ROOF TOP ANTENNA WITH OWNER PRIOR TO INSTALLATION. PROVIDE 24VDC POWER FROM FIRE ALARM PANEL OR FIRE ALARM AUX POWER AND PROVIDE BATTERY-BACKUP IN RADIO DIALER. PROVIDE ALL EQUIPMENT, CONNECTIONS, AND PROGRAMMING FOR A COMPLETE OPERATIONAL SYSTEM.
20. PROVIDE ADDITIONAL NAC POWER SUPPLIES AS REQUIRED FOR NAC CIRCUITS AND 24VDC DOOR HOLDERS FOR A COMPLETE OPERATIONAL SYSTEM.
21. PROVIDE A NEW LOCKABLE KEYCHAIN - ELASTIC COIL STRETCH TETHER KEY LANYARD WITH MINIMUM 3-FOOT WIRE SPRING ROPE WITH NEW MANUFACTURE POTTER SIGNAL KEY AT EACH FIRE ALARM PANEL LOCATIONS.

TRES WEST ENGINEERS

TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
Phone: 253.472.3300
www.treswest.com

ROGER W. KAI — STATE OF WASHINGTON — 19798 — REGISTERED PROFESSIONAL ENGINEER

01/08/2025

PROJECT TITLE
KING COUNTY HOUSING AUTHORITY
MARDI GRAS
FIRE ALARM SYSTEM REPLACEMENT

PROJECT ADDRESS
24009 104TH AVE. SE.
KENT, WA. 98030

100% BID SET

REVISION	DATE
3	
2	
1	
BID SET	01/08/2025
ISSUED	DATE

SHEET TITLE
FIRE ALARM ONE-LINE DIAGRAMS PLAN

DRAWN	BCY
CHECKED	RWA
TWE JOB #	240802
CLIENT JOB #	KI2300365
SHEET SCALE	NTS

SHEET NUMBER
FA5.10

240802-FA5.10 FIRE ALARM ONE-LINE DIAGRAMS.dwg
1/8/2025 11:02:26

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King County Housing Authority Fire Alarm System Replacement Assessment Report

Mardi Gras Apartments

24009 104th Ave SE

Kent, WA 98030

CD Project No: KI2300365

KCHA Contact Person:

Amy Kurtz PM

January 08, 2025

Prepared by:

Consultant Team

Tres West Engineers, Inc.
2702 South 42nd Street, Suite 301
Tacoma, WA 98409-7315
Telephone: 253.472.3300
www.treswest.com

FIRE ALARM SYSTEM – MARDI GRAS APARTMENTS ASSESSMENT REPORT:

EXISTING BUILDING INFORMATION:

The existing Mardi Gras Apartments building is a three-story apartment building with a B and R2 occupancy. Also has a mechanical and electrical basement area. The building services seniors and disabled persons aged 62+.

This building has sixty-one (61) dwelling units.
There are fifty-eight (58) one (1) bedroom with one (1) bathroom units, two (2) ADA one (1) bedroom with one (1) bathroom units 110 and 117, and one (1) manager unit 101.

APPLICABLE CODES AND STANDARDS:

ADA (Americans with Disability Act)	International Mechanical Code (IMC)
International Building Code (IBC)	National Electrical Code (NFPA 70)
International Electrical Code (IEC)	National Fire Protection Agency (NFPA)
International Fire Code (IFC)	Washington State Energy Code

Standards:

Institute of Electrical and Electronics Engineers (IEEE)	National Electrical Manufacturers Association (NEMA)
National Electrical Contractors Association (NECA)	Underwriters Laboratories (UL)

EXISTING FIRE ALARM SYSTEM EQUIPMENT INFORMATION:

The current fire alarm system main control panel is Silent Knight SK5820XL located in the Office off the main entry lobby on the first floor. The fire alarm was installed in 1985.
120VAC Power from Panelboard H4 Circuit Breaker with locked on device.
The UL-listed central station monitoring is provided by Smith Fire System Inc Account # LAC AES 10474 via AES Radio adjacent to the main fire alarm panel in photo below:

The existing remote annunciator is located in the main entry office area and will be relocated to the main entry lobby.
The new fire alarm system will replace this with a new remote annunciator.

The fire alarm NAC panels with sync modules are located on the first floor, adjacent to the main fire alarm panel. See the fire alarm panel photos below:

First floor storage room.

Second floor central storage room.

Third floor central storage room.

EXISTING FIRE ALARM SYSTEM DETECTORS AND DEVICE COVERAGE INFORMATION:

The current fire alarm system has the following detectors and devices:

1. Addressable loop smoke detectors are in the common areas (corridors, multi-purpose room, and elevator lobbies), maintenance shop, main office, elevator machine room, and electrical rooms.
2. Stand-a-lone 120VAC smoke are in all dwelling units living rooms and bedrooms.
3. Each dwelling unit has addressable loop heat detectors in the living rooms and bedrooms.
4. Addressable loop heat detectors are in the storage and laundry rooms on each floor.
5. There is a zonal dual-connected heat detector in the elevator machine room for elevator shunt trips and the other connection is for monitoring the heat detector status.
6. There is addressable loop pull stations at every exterior exit and every stairway on each level.
7. Notification and visual are horn/strobe devices in all common areas (corridors, multi-purpose room, offices, laundry rooms, some stairways, and elevator lobbies).
8. Dwelling unit notification and visual are stand-a-lone 120VAC smoke/heat detector horns in living and bedroom areas for local dwelling only and living area fire alarm system horn/strobe for full building alarm events.
9. There are two (2) ADA dwelling units (110 and 117) notification and visual are stand-a-lone 120VAC smoke/heat detector horns in living and bedroom areas for local dwelling only and living area, bedroom, and restroom fire alarm system horn/strobes for full building alarm events.
10. The Main Sprinkler Riser is located in the 1st floor maintenance room 123 adjacent to manager unit 101. The Sprinkler Riser for each floor is in central

stairway #2 1st, 2nd, and 3rd floors. Each floor riser has a water flow valve switch and a tamper valve switch. Adjacent to the Southeast main road entry on site is the PIV and vault with backflow device and tamper switches.

EXISTING FIRE ALARM SYSTEM INTERFACE INFORMATION:

The current fire alarm system has the following:

1. There are door holders on both corridor doors to the central stairway #2 - 1st, 2nd, and 3rd floors. Reconnect these door holders.
2. There is a door holder on main office door. Reconnect these door holders.
3. Mechanical Roof Top Unit does not have a fire alarm smoke duct detector. This HVAC unit is above 2,000 CFM. If we have full coverage smoke detections of the public areas being served by the HVAC unit. The operation of the building HVAC system can be totally (Global) shut down by the fire alarm system in lieu of utilizing the duct detectors as required per code. Provide fire alarm addressable control relay module for HVAC global shut down. Provide labeling on the exterior roof top HVAC unit stating "FA HVAC GLOBAL SHUT DOWN". There should be existing fire/smoke dampers control relays in central stairway #2 - 1st, 2nd, and 3rd floors. Reconnect these existing fire/smoke dampers control relays.
4. Elevator Recall in the Basement Elevator Machine Room –
   - Primary Elevator Recall to 1st floor.
   - Secondary Elevator Recall to 2nd floor.
   - Hat / Secondary Elevator Recall to 2nd floor turn on HAT symbol inside the elevator cab.
   - Shunt Trip Power monitoring.
   - Daul Contact Heat Detector is monitored and provides the disconnect power to the elevator equipment.
   - As-built shows that there is an existing Daul Contact Heat Detector and smoke detector at the top of the elevator hoist way.

NFPA 72 EFORMS – FIRE ALARM SYSTEM RECORD OF COMPLETION / ANNUAL INSPECTION FORM

REMOTE ANNUNCIATORS:

Type	Location
LCD Display	Main Entry Lobby

INITIATING DEVICES:

Type	Qty	Addressable or Conventional	Alarm or Supervisory	Sensing Technology
Manual Pull Stations	14	Addressable	Alarm	Contact
Smoke Detectors	38	Addressable	Alarm	Photo
Dwelling Zone Modules Heat Detectors	61	Addressable	Supervisory	Contact
Duct Smoke				

Detectors				
Heat Detectors Dwelling unit	121	Addressable	Alarm	135° F Temp
Heat Detectors	3	(2) Addressable (1) Conventional	Alarm	135° F Temp
Gas Detectors	NA			
Carbon Monoxide Detectors	NA			
Waterflow Switches	4	Addressable Module	Alarm	Contact
Tamper Switches	7	Addressable Module	Supervisory	Contact
Back Flow Tamper Switches	1	Addressable Module	Supervisory	Contact
PIV	1	Addressable Module	Supervisory	Contact
Elevator Shunt trip Power	1	Addressable Module	Supervisory	Contact
Elevator Dual Contacted Heat Detector	1	Addressable Module	Alarm	Contact

NOTIFICATION APPLIANCES:

Type	Quantity	Description
Audible		
Visual		System Sensor
Combination of Audible and Visual	25	System Sensor
Dwelling Horn/Strobe	125	System Sensor
Dwelling Strobe	61	System Sensor
Dwelling 120VAC Smoke Detector Audible	234	Gentex
Sprinkler Exterior Bell	1	Water Gong
Fire Alarm Exterior Bell/strobe	1	Wheelock Bell and System Sensor Strobe

SYSTEM CONTROL FUNCTIONS:

Type	Quantity
Hold-Open Door Releasing Devices	7
HVAC Shutdown	1
Fire/Smoke Dampers	6
Door Unlocking	
Elevator Recall	3
Elevator Shunt Trip	1

EXISTING FIRE ALARM SYSTEM OPERATION:

During the site visual inspection of the fire alarm system, it appears that the existing fire alarm system operates on the following:

- If any of the common area smoke detectors, heat detectors, manual pull stations, or waterflow devices will activate alarm events for all notification and visual devices in the entire building, to the building fire alarm system, and central station monitoring. Also, all Fire/Smoke Dampers will close.
- Elevator recall has four (4) different functions and will require one 120VAC power monitoring as follows below:
  1. Elevator Primary Recall – If the 2nd floor or 3rd floor elevator lobby smoke detector activates the alarm event elevator will recall to the 1st floor and open the cab door.
  2. Elevator Secondary Recall – If the 1st floor elevator lobby smoke detector activates the alarm event elevator will recall to the 2nd floor and open the cab door.
  3. Elevator Hat Recall – If the 1st floor elevator machine room smoke detector activates the alarm event elevator will recall to the 2nd floor, open the cab door, and turn on the fireman's HAT light symbol.
  4. Elevator Shunt Trip Dual Contact Fixed 135˚ Heat Detector – If the 1st floor Elevator Machine Room Heat Detector activates the alarm event the elevator power will be cut off.
  5. The elevator is required to have the 120VAC shunt trip power to be monitored. If the 120VAC power is off, The SLC loop addressable monitoring module activates a supervisory signal to the building fire alarm system, and central station monitoring.
- If any of the dwelling unit 120VAC smoke detectors activate the supervisory event to all the other 120VAC smoke detectors within that dwelling unit will be notification devices in the 120VAC smoke detectors sound within the unit only. These Each dwelling unit has an SLC loop addressable monitoring module connected to heat detector within the dwelling unit to activate an alarm signal to the building fire alarm system and central station monitoring.
- If any of the sprinkler riser tamper switches or PIV switch is activated, it will send a supervisory alarm event to the building fire alarm system and central station monitoring.

FIRE ALARM SYSTEM ISSUES:

During the site visual inspection of the fire alarm system, it appears that the existing fire alarm system has the following issues:

1. Mechanical Roof Top Unit does not have a fire alarm smoke duct detector. This HVAC unit is above 2,000 CFM it is 3,000 CFM per the manufacture. This HVAC unit is above 2,000 CFM. If we have full coverage smoke detections of the public areas being served by the HVAC unit. The operation of the building HVAC system can be totally (Global) shut down by the fire alarm system in lieu of utilizing the duct detectors as required per code. Provide fire alarm addressable control relay module for HVAC global shut down. Provide labeling on the exterior roof top HVAC unit stating "FA HVAC GLOBAL SHUT DOWN". There should be existing fire/smoke dampers control relays in central stairway #2 - 1st, 2nd, and 3rd floors. Reconnect these existing fire/smoke dampers control relays.

2. There should be existing fire/smoke dampers control relays in central stairway #2 - 1st, 2nd, and 3rd floors. Reconnect these existing fire/smoke dampers control relays. Did not find this during the site walk.
3. Missing circuit breakers 38 and 40 lock-on device for two power circuits in basement electrical room existing panelboard H4.
4. There is an unknown fire alarm module not labeled in the basement electrical room. We are thinking that it is the sprinkler tamper for the elevator pit. This will need to be verified by Fire Alarm contractor during the construction. Refer to the picture below:

FIRE ALARM SYSTEM LIFE EXPECTANCY:

- NFPA-72 requirement to replace existing fire alarm detectors, devices, and equipment as the following:
  All residential Spot Smoke & CO detectors – 10 years
  Fire Alarm Batteries – 5 years
  System Smoke Detector – 20 years.
- Fire Marshals (AHJ) currently require a detectors and devices sensitivity test reports. All current addressable fire alarm systems have the capability to print out this report.
- Local Fire Department currently does not require this report, although in the future, the new Potter Signal Fire Alarm System will be able to produce this report by email or text message.
- Fire Alarm System Equipment does not define any fixed lifetime for the components of a Fire Alarm System. Does not restrict the technology that is used and different technical solutions may produce a different life expectancy. The expectation is that the equipment manufacturer will be the best guide to an expected lifetime for a particular product. Manufacturers are also likely to have an obsolescence policy regarding spares and support for maintenance.

BUILDING LIFE SAFETY:

- Does this building have an evacuation plan? If so, it would be good to make sure all managers have a copy of it.
- Make sure everyone knows where to go during the evacuations.
- During an evacuation everyone has a job to do to keep everyone safe. Like, close all doors behind you after you leave each area.
- Never assume anyone else already called the fire department.
- Remember that your cell phone has a flashlight and it would be easier to see you in the dark or smokey area.
- If your cell phone does not have cell service at the time use text messaging. As soon as you get cell service your text will go out.

FIRE ALARM CODE REQUIREMENTS:

The fire alarm system is recommended by TWE. (See fire alarm system code analysis items listed below):

- Automatic Smoke Detectors are required in all Public Egress Pathways, electrical rooms, elevator machine room, and elevator lobby.
- Automatic Smoke Detectors with low-frequency sounder bases programmed to function like single- and -multiple station alarms in all dwelling unit sleeping areas (bedroom & living room)
- Monitoring of the existing full sprinkler system.
- Manual Pull Stations are NOT required per section 907.2.9.1 exception 2 of the International Building Code (IBC)
- Graphic Maps (Qty. 2) are required for this project and shall be posted at the fire alarm control panel, the main sprinkler riser (Basement), and at the remote annunciator panel locations.
- Remote Annunciators (Qty. 1) shall be installed. One at a pre-approved fire department location.
- Quantity and location of remote annunciators are subject to the location and accessibility of the main fire alarm panel. Coordinate with the local AHJ to determine if they wish to move the current location or add additional locations.
- Audible/Visual Notification shall be installed throughout the entire building in accordance with sections 907.5.2.1 and 907.5.2.3 of the International Building Code (IBC) and sections 18.4 and 18.5 of NFPA 72.
- Audible/Visual Coverage in building common areas (Dining areas, community rooms, laundry rooms, restrooms, library, community outdoor decks, and interior corridors).
- All sleeping areas will be equipped with low-frequency sounder bases activated by building alarm events.
- Audible/Visual Notification shall be installed in all tenant units in accordance with sections 907.5.2.1 and 907.5.2.3.3 of the International Building Code (IBC) and section 18.5.5.8 of NFPA 72.
- Provide visual coverage in the bedroom, living room, and weather-proof visual for bathroom of all dwelling units.

- The Fire Alarm System shall also interface with other systems such as Smoke and Fire/Smoke Dampers, Duct Smoke Detectors, H.V.A.C. Systems, Magnetic Door Holders, Magnetic Door Releases, Cooking Hood Fire Suppression Systems, Fire Protection Sprinkler Systems, and Elevators where applicable.
- Provide Central station monitoring via AES Radio mesh network.
- Plain Old Telephone Service (POTS) lines are not permitted.
- Kent Fire Code 13.01 has amendments to the 2021 International Fire Code (IFC) – WAC 51-54.

ELEVATOR SHAKE ALERT FIRE ALARM INTERFACE:

A new interface for the elevators:

- In the last few years, elevator shake alert systems were installed in numerous City of Seattle buildings.
- The shake alert system is an earthquake detection system that sends out a signal to the Fire Alarm System:
- This is a signal across the (internet, radio, television, and cellular) with the right program or application that can trigger a relay that can be monitored by the fire alarm system. The fire alarm system will do a primary elevator recall for all elevators in the building.

RECOMMENDATIONS:

TWE would recommend the following:

1. The existing Silent Knight SK5820XL Fire Alarm Panel and field devices are obsolete and need to be replaced.

2. Provide zonal output groups for annual inspection bypass. The zonal output groups shall be a minimum of the following:
   A. All Public NAC Circuits.
   B. Dwelling NAC Audio/Visual.
   C. Elevator Recall.
   D. Door Holders and Fire/Smoke Dampers.

3. During the site walk one of the maintenance staff put a key leash that was attached to the conduit above the existing fire alarm panel. Th leash was long enough to reach each fire alarm panel on the wall. This existing leash needs to be replaced with a new Lockable Keychain - Elastic Coil Stretch Tether Key Lanyard with minimum 3-foot Wire Spring Rope with new manufacture Potter Signal key at each fire alarm panel locations.

4. Set up a binder with the last fire alarm annual inspection reports, printed point list, and instructions on how to find duct detectors and other hard to find fire alarm devices that need to be tested annually. Put half-size as-built drawings inside the binder. These documents could be used to do annual inspections, help the fire department find fire alarm devices, and maintain the fire alarm system.

5. Installing a fire alarm document cabinet adjacent to the fire alarm panel in the building.
   A. A fire alarm documents storage cabinet adjacent to the main fire alarm panel per NFPA-72 current code is required. Coordinate location with Owner's Representative prior to installation. Download program data and point list onto the 4GB flash drive built-in to cabinet per NFPA-72 current code. Provide closeout documents in a binder as required.
      Manufacturers:
      - Space Age Electronic Part Number SSU00685 or equal.

6. Installing a fire alarm lock on the device for the 120VAC circuit breaker.
   A. NFPA current code requires that all fire alarm circuit breakers install lockout devices.
      Manufacturers:
      - Space Age Electronic Part Number ELOCK_FA or equal.

B. Fire Alarm equipment and device labeling:
   A. We recommend that the main fire alarm panels shall have the following labeling below:

Description:	Example:
Panel Name:	**MAIN FIRE ALARM**
Node #:	**Node 2 and CAB #**
AC PANEL:	**AC Panel 2X2**
BREAKER #:	**Breaker #1**

   B. We recommend the Duct Detector Locations shall have the following labeling on the grid next to the ceiling tile to gain access to the duct detector. Mount in clear sight of the floor.
      Refer to the example below:

Description:	Example:
Device Name:	**DUCT SLC1-S26**

   C. We recommend the fire alarm device labels: Use for the identification of all fire alarm input and output control devices. In clear sight of the floor. Otherwise, provide a duct detector-type label. These address labels shall match the fire alarm readout and as-built drawings. All module devices shall have a description of what it is monitoring and controlling.
      Refer to the example below:

Description:	Example:
Device Name:	**N10SLC1-S26**

C. Data drop with internet access for the fire alarm panel. Note: all telecom equipment that the fire alarm communication connection (Router) to the internet will need to be battery backup for 4 hours.

D. The cabling support Bridle Ring works better than J and D hooks for open cable support fire alarm installation.

E. The Dwelling Unit Living Room smoke detector should be designed to be a Smoke/CO multi-criteria detector with a low-frequency sounder base. The heat shall be programmed as a full building alarm event. The smoke and CO shall be programmed to operate like dwelling unit tandem multiple-detector alarms as supervisory events to the fire alarm system and central station monitoring.

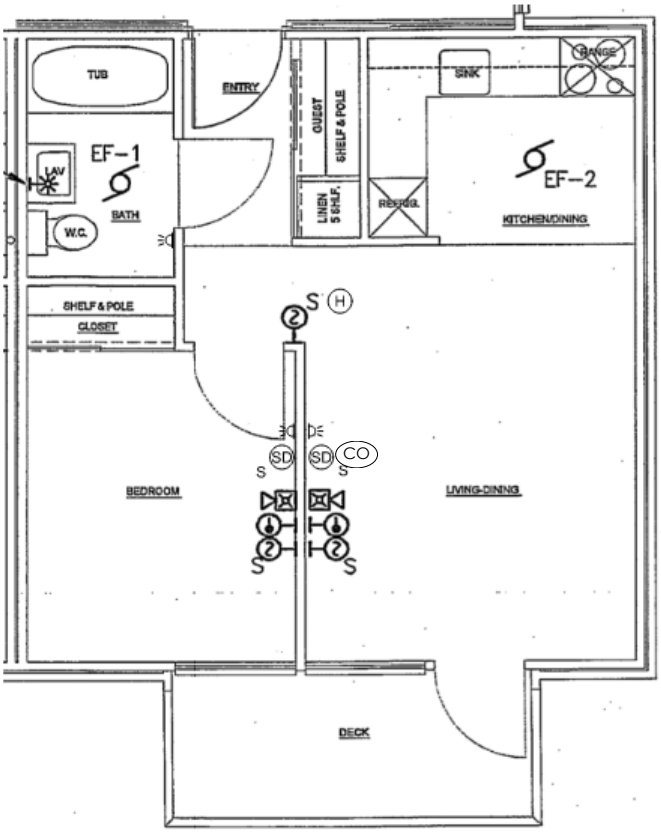
FIRE ALARM SYSTEM REPLACEMENT:

The following items will require replacement:

1. New fire alarm panel should be mounted left of the existing fire alarm panel on the same wall.
2. Stack the four NAC Panels adjacent to the new fire alarm panel.
3. Mount the AES radio above the new fire alarm panel.
4. New NAC Panels should be mounted right of the existing NAC Panel in the storage room 2nd and 3rd floors.
5. Remove the existing remote annunciator and utilize the existing conduit to pull new cabling to the new remote annunciator.
6. The electrical contractor will need to provide Electrical 120VAC equipment and circuits to support any new fire alarm control panels and equipment. They will also need to remove all 120VAC combination smoke detectors in all units once the new fire alarm system has been approved by the local AHJ.
7. Replace each detector or device within 3 feet of the existing detector or device and make sure that all these are within the fire code coverage requirements.
8. The Dwelling Unit shall be designed per the typical drawing provided below.
   A. The dwelling unit shall have the following items for ADA strobe coverage and control will be provided with:
      - (1) - Addressable NAC module
      - (1) - Sync module
      - (2) - fire alarm LED 75CD strobes
      - (1) - fire alarm LED 177CD strobe
      - (2) - Addressable low-frequency sounder bases.
      - (1) - Addressable Smoke/CO detector header in living room.
      - (1) Addressable Smoke detector in bedroom.
      - (1) - Addressable Heat detector head with base.
   B. The fire alarm addressable SLC loop circuit and 24VDC power circuit. The 24VDC power is for the addressable NAC module via the sync module to run the dwelling unit strobes and addressable low-frequency sounder bases.
   C. Mardi Gras Apartments has 3 stories with mechanical and electrical basement. The total dwelling units is 61. There are 1 manager unit, 16 dwelling units on 1st floor, 22 dwelling units on 2nd floor, and 22 dwelling units on the 3rd floor.

D. We can power four (4) dwelling units with one (1) NAC power circuit at 2.9A. The 10A NAC panel can service three (3) NAC circuits. We would need to have two (2) NAC Panels per floor for Mardi Gras Apts.
E. Mardi Gras Apartments would utilize the main fire alarm panel for two (2) NAC circuits for public areas on 1st floor horn/strobes, one (1) NAC circuit for 2nd floor horn/strobes, and one (1) NAC circuit for 3rd floor horn/strobes.

Figure 1: Typical Fire Alarm Dwelling Unit Layout from Mardi Gras Apartments.



TYPICAL ONE BEDROOM DWELLING UNIT
SCALE: 1/4"=1'-0"
0 2' 4' 8'

REVISED FIRE ALARM SYSTEM OPERATION:

After the replacement of the existing fire alarm system, the fire alarm system will operate in the following:

- If any of the common area smoke detectors, heat detectors, manual pull stations, or waterflow devices will activate alarm events for all notification and visual devices in the entire building, to the building fire alarm system, and central

station monitoring. Also, all HVAC Units shut down and Fire/Smoke Dampers will close.

- Elevator recall has four (4) different functions and will require one 120VAC power monitoring as follows below:

    1. Elevator Primary Recall – If the 2nd floor or 3rd floor elevator lobby smoke detector activates the alarm event elevator will recall to the 1st floor and open the cab door.
    2. Elevator Secondary Recall – If the 1st floor elevator lobby smoke detector activates the alarm event elevator will recall to the 2nd floor and open the cab door.
    3. Elevator Hat Recall – If the 1st floor elevator machine room smoke detector activates the alarm event elevator will recall to the 2nd floor, open the cab door, and turn on the fireman's HAT light symbol.
    4. Elevator Shunt Trip Dual Contact Fixed 135˚ Heat Detector – If the 1st floor Elevator Machine Room Heat Detector activates the alarm event the elevator power will be cut off.
    5. The elevator is required to have the 120VAC shunt trip power to be monitored. If the 120VAC power is off, The SLC loop addressable monitoring module activates a supervisory signal to the building fire alarm system, and central station monitoring.

- If any of the dwelling unit single smoke detector activate the supervisory event all smoke detectors within that dwelling unit will be notification devices in the smoke detectors sound within the unit only.
- **If any of the two smoke detectors within the same dwelling unit are in an alarm the entire building will go into a full alarm event.**
- **If the heat detector in the dwelling unit is in an alarm the entire building will go into a full alarm event.**
- If any of the sprinkler riser tamper switches or PIV switch is activated, it will send a supervisory alarm event to the building fire alarm system and central station monitoring.

END OF REPORT

POINTS LIST AND ZONE MAPS FOR MARDI GRAS APARTMENTS

Point ID	Point Name	Point Type	Location
01:001	2n Fl Cntr Stairwel	Init:Addr:Switch:Water Flow	Z6
01:002	2n Fl Cntr Stairwel	Init:Addr:Switch:Tamper	Z7
01:003	2n Fl Cntr Stairwel	Init:Addr:Switch:Manual Pull	Z3
01:004	2nd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:005	2nd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:006	2nd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:007	2nd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:008	2nd Fl North Stairs	Init:Addr:Switch:Manual Pull	Z3
01:011	2nd Fl Rm 204 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:012	2nd Fl Rm 204 Bed Rm	Init:Addr:Detector:Heat	Z1
01:013	2nd Fl Rm 206 Bed Rm	Init:Addr:Detector:Heat	Z1
01:014	2nd Fl Rm 206 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:015	2nd Fl Rm 208 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:016	2nd Fl Rm 208 Bed Rm	Init:Addr:Detector:Heat	Z1
01:017	2nd Fl Rm 210 Bed Rm	Init:Addr:Detector:Heat	Z1
01:018	2nd Fl Rm 210 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:019	2nd Fl Rm 212 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:020	2nd Fl Rm 212 Bed Rm	Init:Addr:Detector:Heat	Z1
01:021	2nd Fl Rm 214 Bed Rm	Init:Addr:Detector:Heat	Z1
01:022	2nd Fl Rm 214 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:023	2nd Fl Rm 215 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:024	2nd Fl Rm 215 Bed Rm	Init:Addr:Detector:Heat	Z1
01:025	2nd Fl Rm 213 Bed Rm	Init:Addr:Detector:Heat	Z1
01:026	2nd Fl Rm 213 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:027	2nd Fl Rm 211 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:028	2nd Fl Rm 211 Bed Rm	Init:Addr:Detector:Heat	Z1
01:029	2nd Fl Rm 209 Bed Rm	Init:Addr:Detector:Heat	Z1
01:030	2nd Fl Rm 209 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:031	2nd Fl Rm 207 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:032	2nd Fl Rm 207 Bed Rm	Init:Addr:Detector:Heat	Z1
01:033	2nd Fl Rm 205 Bed Rm	Init:Addr:Detector:Heat	Z1
01:034	2nd Fl Rm 205 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:035	3rd Fl West Stairs	Init:Addr:Switch:Manual Pull	Z3
01:036	3rd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
01:037	3rd Fl Elev. Lobby	Init:Addr:Detector:Photo	Z4
01:038	3rd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
01:039	3rd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
01:040	3rd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
01:041	3rd Fl East Stairs	Init:Addr:Switch:Manual Pull	Z3
01:042	3rd Fl W. Stairwell	Init:Addr:Detector:Photo	Z2
01:043	3rd FL Rm 302 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:044	3rd FL Rm 302 Bed Rm	Init:Addr:Detector:Heat	Z1
01:045	3rd FL Rm 301 Bed Rm	Init:Addr:Detector:Heat	Z1
01:046	3rd FL Rm 301 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:047	3rd FL Rm 316 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:048	3rd FL Rm 318 Bed Rm	Init:Addr:Detector:Heat	Z1
01:049	3rd FL Rm 318 Liv Rm	Init:Addr:Detector:Heat	Z1
01:050	3rd FL Rm 320 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:051	3rd FL Rm 320 Bed.Rm	Init:Addr:Detector:Heat	Z1
01:052	3rd FL Rm 322 Bed Rm	Init:Addr:Detector:Heat	Z1
01:053	3rd FL Rm 322 Liv Rm	Init:Addr:Detector:Heat	Z1
01:054	3rd FL East Stairwel	Init:Addr:Detector:Photo	Z2
01:055	3rd FL Rm 321 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:056	3rd FL Rm 321 Be dRm	Init:Addr:Detector:Heat	Z1
01:057	3rd FL Rm 319 Bed Rm	Init:Addr:Detector:Heat	Z1
01:058	3rd FL Rm 319 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:059	3rd FL Rm 317 Liv.Rm	Init:Addr:Detector:Heat	Z1

POINT LISTING

Point ID	Point Name	Point Type	Location
01:060	3rd FL Rm 317 Bed Rm	Init:Addr:Detector:Heat	Z1
01:061	3d Fl Cntr Stairwell	Init:Addr:Switch:Water Flow	Z6
01:062	3d Fl Cntr Stairwell	Init:Addr:Switch:Tamper	Z7
01:063	3d Fl Cntr Stairwell	Init:Addr:Switch:Manual Pull	Z3
01:064	3d Fl Cntr Stairwell	Init:Addr:Detector:Photo	Z2
01:065	3rd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:066	3rd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:067	3rd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:068	3rd Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
01:069	3rd Fl North Stairs	Init:Addr:Switch:Manual Pull	Z3
01:070	3rd Fl Rm 303 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:071	3rd Fl Rm 303 Bed Rm	Init:Addr:Detector:Heat	Z1
01:072	3rd Fl Rm 304 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:073	3rd Fl Rm 304 Bed Rm	Init:Addr:Detector:Heat	Z1
01:074	3rd Fl Rm 306 Bed Rm	Init:Addr:Detector:Heat	Z1
01:075	3rd Fl Rm 306 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:076	3rd Fl Rm 308 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:077	3rd Fl Rm 308 Bed Rm	Init:Addr:Detector:Heat	Z1
01:078	3rd Fl Rm 310 Bed.Rm	Init:Addr:Detector:Heat	Z1
01:079	3rd Fl Rm 310 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:080	3rd Fl Rm 312 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:081	3rd Fl Rm 312 Bed Rm	Init:Addr:Detector:Heat	Z1
01:082	3rd Fl Rm 314 Bed Rm	Init:Addr:Detector:Heat	Z1
01:083	3rd Fl Rm 314 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:084	3rd Fl N. Stairwell	Init:Addr:Detector:Photo	Z2
01:085	3rd Fl Rm 315 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:086	3rd Fl Rm 315 Bed Rm	Init:Addr:Detector:Heat	Z1
01:087	3rd Fl Rm 313 Bed Rm	Init:Addr:Detector:Heat	Z1
01:088	3rd Fl Rm 313 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:089	3rd Fl Rm 311 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:090	3rd Fl Rm 311 Bed Rm	Init:Addr:Detector:Heat	Z1
01:091	3rd Fl Rm 309 Bed Rm	Init:Addr:Detector:Heat	Z1
01:092	3rd Fl Rm 309 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:093	3rd Fl Rm 307 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:094	3rd Fl Rm 307 Bed Rm	Init:Addr:Detector:Heat	Z1
01:095	3rd Fl Rm 305 Bed Rm	Init:Addr:Detector:Heat	Z1
01:096	3rd Fl Rm 305 Liv.Rm	Init:Addr:Detector:Heat	Z1
01:097	3rd Fl Rm 316 BedRm	Init:Addr:Detector:Heat	Z1
01:098	3rd Fl Rm 323 BPS#5	Init:Addr:Switch:Supervisory	Z8
01:099	3rd Fl Rm 323 BPS#6	Init:Addr:Switch:Supervisory	Z8
01:100	3rd Fl Jan Clst Smke	Init:Addr:Detector:Photo	Z2
01:101	3rd Fl Laundry Heat	Init:Addr:Detector:Heat	Z1
33:001	FA Control Room	Init:Addr:Detector:Photo	Z2
33:002	Bsmnt Elev. Mach Rm	Init:Addr:Detector:Photo	Z4
33:004	Elev Recall	Notif:Addr:Relay:	G1
33:005	Alt Elev Recall	Notif:Addr:Relay:	G2
33:006	Fire Hat Light	Notif:Addr:Relay:	G3
33:007	1st Fl. West Stairs	Init:Addr:Switch:Manual Pull	Z3
33:008	1st Fl. E/W Corridor	Init:Addr:Detector:Photo	Z2
33:009	1st Fl. Elev Lobby	Init:Addr:Detector:Photo	Z5
33:010	1st Fl. E/W Corridor	Init:Addr:Detector:Photo	Z2
33:011	1st Fl. E/W Corridor	Init:Addr:Detector:Photo	Z2
33:012	1st Fl. E/W Corridor	Init:Addr:Detector:Photo	Z2
33:013	1st Fl. East Stairs	Init:Addr:Switch:Manual Pull	Z3
33:014	1st Fl Rm 101 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:015	1st Fl Rm 101 Bed Rm	Init:Addr:Detector:Heat	Z1
33:016	1st Fl Lobby	Init:Addr:Switch:Manual Pull	Z3
33:017	1st Fl Rm 114 Bed Rm	Init:Addr:Detector:Heat	Z1
33:018	1st Fl Rm 114 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:019	1st Fl Rm 115 Liv Rm	Init:Addr:Detector:Heat	Z1
33:020	1st Fl Rm 115 Bed Rm	Init:Addr:Detector:Heat	Z1
33:021	1st Fl Rm 116 Bed Rm	Init:Addr:Detector:Heat	Z1
33:022	1st Fl Rm 116 Liv.Rm	Init:Addr:Detector:Heat	Z1

POINT LISTING

Point ID	Point Name	Point Type	Location
33:023	1st Fl Rm 117 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:025	Recreation Rm 119	Init:Addr:Switch:Manual Pull	Z3
33:026	Bsmt Below Staris	Init:Addr:Switch:Water Flow	Z1
33:027	Bsmt Below Stairs	Init:Addr:Switch:Tamper	Z1
33:028	Center Stairwell	Init:Addr:Switch:Water Flow	Z6
33:029	Center Stairwell	Init:Addr:Switch:Tamper	Z7
33:030	1st Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
33:031	1st Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
33:032	1st Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
33:033	1st Fl N/S Corridor	Init:Addr:Detector:Photo	Z2
33:034	1st Fl North Stairs	Init:Addr:Switch:Manual Pull	Z3
33:035	1st Fl Rm 102 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:036	1st Fl Rm 102 Bed Rm	Init:Addr:Detector:Heat	Z1
33:037	1st Fl Rm 104 Bed.Rm	Init:Addr:Detector:Heat	Z1
33:038	1st Fl Rm 104 Liv Rm	Init:Addr:Detector:Heat	Z1
33:039	1st Fl Rm 106 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:040	1st Fl Rm 106 Bed Rm	Init:Addr:Detector:Heat	Z1
33:041	1st Fl Rm 108 Bed.Rm	Init:Addr:Detector:Heat	Z1
33:042	1st Fl Rm 108 Liv Rm	Init:Addr:Detector:Heat	Z1
33:043	1st Fl Rm 110 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:045	1st Fl Rm 112 Bed.Rm	Init:Addr:Detector:Heat	Z1
33:046	1st Fl Rm 112 Liv Rm	Init:Addr:Detector:Heat	Z1
33:047	1st Fl Rm 113 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:048	1st Fl Rm 113 Bed Rm	Init:Addr:Detector:Heat	Z1
33:049	1st Fl Rm 111Bed Rm	Init:Addr:Detector:Heat	Z1
33:050	1st Fl Rm 111 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:051	1st Fl Rm 109 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:052	1st Fl Rm 109 Bed Rm	Init:Addr:Detector:Heat	Z1
33:053	1st Fl Rm 107 Bed Rm	Init:Addr:Detector:Heat	Z1
33:054	1st Fl Rm 107 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:055	1st Fl Rm 105 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:056	1st Fl Rm 105 Bed Rm	Init:Addr:Detector:Heat	Z1
33:058	1st Fl Rm 103 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:059	1st Fl Cntr Exit Dr	Init:Addr:Switch:Manual Pull	Z3
33:060	2nd Fl West Stair	Init:Addr:Switch:Manual Pull	Z3
33:061	2nd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
33:062	2nd Fl Elev Lobby	Init:Addr:Detector:Photo	Z4
33:063	2nd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
33:064	2nd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
33:065	2nd Fl E/W Corridor	Init:Addr:Detector:Photo	Z2
33:066	2nd Fl East Stairs	Init:Addr:Switch:Manual Pull	Z3
33:067	2nd Fl Rm 202 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:068	2nd Fl Rm 202 Bed Rm	Init:Addr:Detector:Heat	Z1
33:069	2nd Fl Rm 201 Bed Rm	Init:Addr:Detector:Heat	Z1
33:070	2nd Fl Rm 201 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:071	2nd Fl Rm 216 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:072	2nd Fl Rm 216 Bed Rm	Init:Addr:Detector:Heat	Z1
33:073	2nd Fl Rm 218 Bed Rm	Init:Addr:Detector:Heat	Z1
33:074	2nd Fl Rm 218 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:075	2nd Fl Rm 220 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:076	2nd Fl Rm 220 Bed Rm	Init:Addr:Detector:Heat	Z1
33:077	2nd Fl Rm 222 Bed Rm	Init:Addr:Detector:Heat	Z1
33:078	2nd Fl Rm 222 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:079	2nd Fl Rm 221 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:080	2nd Fl Rm 221 Bed Rm	Init:Addr:Detector:Heat	Z1
33:081	2nd Fl Rm 219 Bed Rm	Init:Addr:Detector:Heat	Z1
33:082	2nd Fl Rm 219 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:083	2nd Fl Rm 217 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:084	2nd Fl Rm 217 Bed Rm	Init:Addr:Detector:Heat	Z1
33:085	2nd Fl Laundry Rm	Init:Addr:Detector:Heat	Z1
33:086	2nd Fl Jan Clos 223A	Init:Addr:Detector:Photo	Z2
33:087	2nd Fl Jan Clos BPS3	Init:Addr:Switch:Supervisory	Z8
33:088	2nd Fl Jan Clos BPS4	Init:Addr:Switch:Supervisory	Z8

POINT LISTING

Point ID	Point Name	Point Type	Location
33:090	1st Fl Rm 119 BPS#1	Init:Addr:Switch:Supervisory	Z8
33:091	1st Fl Rm 119 BPS#2	Init:Addr:Switch:Supervisory	Z8
33:093	1st Fl Rm 101 Bed Rm	Init:Addr:Detector:Heat	Z1
33:094	Bsmt Elev Mach Rm	Init:Addr:Switch:Tamper	Z7
33:095	FA Control Rm	Init:Addr:Switch:Tamper	Z7
33:096	1st Fl Jan. Closet	Init:Addr:Detector:Photo	Z2
33:097	Outside P.I.V	Init:Addr:Switch:Tamper	Z1
33:098	Outside Vlt Backflow	Init:Addr:Switch:Tamper	Z1
33:099	Basement Elect. Rm.	Init:Addr:Detector:Photo	Z2
33:100	2nd Fl Rm 203 Liv.Rm	Init:Addr:Detector:Heat	Z1
33:101	2nd Fl Rm 203 Bed Rm	Init:Addr:Detector:Heat	Z1
33:102	Front Entry Lobby	Init:Addr:Detector:Photo	Z2
33:103	Shunt Trip	Init:Addr:Switch:Detector Input	Z9
33:104	Elev Pwr Monitor	Init:Addr:Switch:Supervisory	Z1
34:001	1st Flr H/S Trip	Notif:Conv:	G5
34:002	2nd Flr H/S Trip	Notif:Conv:	G5
34:003	3rd Flr H/S Trip	Notif:Conv:	G5
34:004	Door Holders	Aux:Conv:Aux:Door	SYS
34:005	MODULE_34 CKT_5	Notif:Conv:	G1
34:006	MODULE_34 CKT_6	Notif:Conv:	G1
34:007	MODULE_34 RELAY_1	Notif:Conv:Relay:	G249
34:008	MODULE_34 RELAY_2	Notif:Conv:Relay:	G250

INPUT ZONE SUMMARY

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
1	Heat Detectors	1 Count	Low	Medium	135
2	Smoke Detectors	1 Count	Low	Medium	135
3	Pull Stations	1 Count	Low	Medium	135
4	Smk Det Elev Recall	1 Count	Low	Medium	135
5	Smk. Alt Elev Recall	1 Count	Low	Medium	135
6	Water Flow	1 Count	Low	Medium	135
7	Tampers	1 Count	Low	Medium	135
8	BPS - Troubles	1 Count	Low	Medium	135
9	Elev Mach Room	1 Count	Low	Medium	150

INPUT ZONE POINT LISTING

Zone 1

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
1	Heat Detectors	1 Count	Low	Medium	135

Point(s) in Zone 1

Point ID	Point Name	Point Type
01:011	2nd Fl Rm 204 Liv.Rm	Init:Addr:Detector:Heat
01:012	2nd Fl Rm 204 Bed Rm	Init:Addr:Detector:Heat
01:013	2nd Fl Rm 206 Bed Rm	Init:Addr:Detector:Heat
01:014	2nd Fl Rm 206 Liv.Rm	Init:Addr:Detector:Heat
01:015	2nd Fl Rm 208 Liv.Rm	Init:Addr:Detector:Heat
01:016	2nd Fl Rm 208 Bed Rm	Init:Addr:Detector:Heat
01:017	2nd Fl Rm 210 Bed Rm	Init:Addr:Detector:Heat
01:018	2nd Fl Rm 210 Liv.Rm	Init:Addr:Detector:Heat
01:019	2nd Fl Rm 212 Liv.Rm	Init:Addr:Detector:Heat
01:020	2nd Fl Rm 212 Bed Rm	Init:Addr:Detector:Heat
01:021	2nd Fl Rm 214 Bed Rm	Init:Addr:Detector:Heat
01:022	2nd Fl Rm 214 Liv.Rm	Init:Addr:Detector:Heat
01:023	2nd Fl Rm 215 Liv.Rm	Init:Addr:Detector:Heat
01:024	2nd Fl Rm 215 Bed Rm	Init:Addr:Detector:Heat
01:025	2nd Fl Rm 213 Bed Rm	Init:Addr:Detector:Heat
01:026	2nd Fl Rm 213 Liv.Rm	Init:Addr:Detector:Heat
01:027	2nd Fl Rm 211 Liv.Rm	Init:Addr:Detector:Heat
01:028	2nd Fl Rm 211 Bed Rm	Init:Addr:Detector:Heat
01:029	2nd Fl Rm 209 Bed Rm	Init:Addr:Detector:Heat
01:030	2nd Fl Rm 209 Liv.Rm	Init:Addr:Detector:Heat
01:031	2nd Fl Rm 207 Liv.Rm	Init:Addr:Detector:Heat
01:032	2nd Fl Rm 207 Bed Rm	Init:Addr:Detector:Heat
01:033	2nd Fl Rm 205 Bed Rm	Init:Addr:Detector:Heat
01:034	2nd Fl Rm 205 Liv.Rm	Init:Addr:Detector:Heat
01:043	3rd FL Rm 302 Liv.Rm	Init:Addr:Detector:Heat
01:044	3rd FL Rm 302 Bed Rm	Init:Addr:Detector:Heat
01:045	3rd FL Rm 301 Bed Rm	Init:Addr:Detector:Heat
01:046	3rd FL Rm 301 Liv.Rm	Init:Addr:Detector:Heat
01:047	3rd FL Rm 316 Liv.Rm	Init:Addr:Detector:Heat
01:048	3rd FL Rm 318 Bed Rm	Init:Addr:Detector:Heat
01:049	3rd FL Rm 318 Liv Rm	Init:Addr:Detector:Heat
01:050	3rd FL Rm 320 Liv.Rm	Init:Addr:Detector:Heat
01:051	3rd FL Rm 320 Bed.Rm	Init:Addr:Detector:Heat
01:052	3rd FL Rm 322 Bed Rm	Init:Addr:Detector:Heat
01:053	3rd FL Rm 322 Liv Rm	Init:Addr:Detector:Heat
01:055	3rd FL Rm 321 Liv.Rm	Init:Addr:Detector:Heat
01:056	3rd FL Rm 321 Be dRm	Init:Addr:Detector:Heat
01:057	3rd FL Rm 319 Bed Rm	Init:Addr:Detector:Heat
01:058	3rd FL Rm 319 Liv.Rm	Init:Addr:Detector:Heat
01:059	3rd FL Rm 317 Liv.Rm	Init:Addr:Detector:Heat
01:060	3rd FL Rm 317 Bed Rm	Init:Addr:Detector:Heat
01:070	3rd Fl Rm 303 Liv.Rm	Init:Addr:Detector:Heat
01:071	3rd Fl Rm 303 Bed Rm	Init:Addr:Detector:Heat
01:072	3rd Fl Rm 304 Liv.Rm	Init:Addr:Detector:Heat
01:073	3rd Fl Rm 304 Bed Rm	Init:Addr:Detector:Heat
01:074	3rd Fl Rm 306 Bed Rm	Init:Addr:Detector:Heat
01:075	3rd Fl Rm 306 Liv.Rm	Init:Addr:Detector:Heat
01:076	3rd Fl Rm 308 Liv.Rm	Init:Addr:Detector:Heat
01:077	3rd Fl Rm 308 Bed Rm	Init:Addr:Detector:Heat
01:078	3rd Fl Rm 310 Bed.Rm	Init:Addr:Detector:Heat
01:079	3rd Fl Rm 310 Liv.Rm	Init:Addr:Detector:Heat
01:080	3rd Fl Rm 312 Liv.Rm	Init:Addr:Detector:Heat
01:081	3rd Fl Rm 312 Bed Rm	Init:Addr:Detector:Heat
01:082	3rd Fl Rm 314 Bed Rm	Init:Addr:Detector:Heat
01:083	3rd Fl Rm 314 Liv.Rm	Init:Addr:Detector:Heat
01:085	3rd Fl Rm 315 Liv.Rm	Init:Addr:Detector:Heat

INPUT ZONE POINT LISTING

01:086	3rd Fl Rm 315 Bed Rm	Init:Addr:Detector:Heat
01:087	3rd Fl Rm 313 Bed Rm	Init:Addr:Detector:Heat
01:088	3rd Fl Rm 313 Liv.Rm	Init:Addr:Detector:Heat
01:089	3rd Fl Rm 311 Liv.Rm	Init:Addr:Detector:Heat
01:090	3rd Fl Rm 311 Bed Rm	Init:Addr:Detector:Heat
01:091	3rd Fl Rm 309 Bed Rm	Init:Addr:Detector:Heat
01:092	3rd Fl Rm 309 Liv.Rm	Init:Addr:Detector:Heat
01:093	3rd Fl Rm 307 Liv.Rm	Init:Addr:Detector:Heat
01:094	3rd Fl Rm 307 Bed Rm	Init:Addr:Detector:Heat
01:095	3rd Fl Rm 305 Bed Rm	Init:Addr:Detector:Heat
01:096	3rd Fl Rm 305 Liv.Rm	Init:Addr:Detector:Heat
01:097	3rd Fl Rm 316 BedRm	Init:Addr:Detector:Heat
01:101	3rd Fl Laundry Heat	Init:Addr:Detector:Heat
33:014	1st Fl Rm 101 Liv.Rm	Init:Addr:Detector:Heat
33:015	1st Fl Rm 101 Bed Rm	Init:Addr:Detector:Heat
33:017	1st Fl Rm 114 Bed Rm	Init:Addr:Detector:Heat
33:018	1st Fl Rm 114 Liv.Rm	Init:Addr:Detector:Heat
33:019	1st Fl Rm 115 Liv Rm	Init:Addr:Detector:Heat
33:020	1st Fl Rm 115 Bed Rm	Init:Addr:Detector:Heat
33:021	1st Fl Rm 116 Bed Rm	Init:Addr:Detector:Heat
33:022	1st Fl Rm 116 Liv.Rm	Init:Addr:Detector:Heat
33:023	1st Fl Rm 117 Liv.Rm	Init:Addr:Detector:Heat
33:026	Bsmt Below Staris	Init:Addr:Switch:Water Flow
33:027	Bsmt Below Stairs	Init:Addr:Switch:Tamper
33:035	1st Fl Rm 102 Liv.Rm	Init:Addr:Detector:Heat
33:036	1st Fl Rm 102 Bed Rm	Init:Addr:Detector:Heat
33:037	1st Fl Rm 104 Bed.Rm	Init:Addr:Detector:Heat
33:038	1st Fl Rm 104 Liv Rm	Init:Addr:Detector:Heat
33:039	1st Fl Rm 106 Liv.Rm	Init:Addr:Detector:Heat
33:040	1st Fl Rm 106 Bed Rm	Init:Addr:Detector:Heat
33:041	1st Fl Rm 108 Bed.Rm	Init:Addr:Detector:Heat
33:042	1st Fl Rm 108 Liv Rm	Init:Addr:Detector:Heat
33:043	1st Fl Rm 110 Liv.Rm	Init:Addr:Detector:Heat
33:045	1st Fl Rm 112 Bed.Rm	Init:Addr:Detector:Heat
33:046	1st Fl Rm 112 Liv Rm	Init:Addr:Detector:Heat
33:047	1st Fl Rm 113 Liv.Rm	Init:Addr:Detector:Heat
33:048	1st Fl Rm 113 Bed Rm	Init:Addr:Detector:Heat
33:049	1st Fl Rm 111Bed Rm	Init:Addr:Detector:Heat
33:050	1st Fl Rm 111 Liv.Rm	Init:Addr:Detector:Heat
33:051	1st Fl Rm 109 Liv.Rm	Init:Addr:Detector:Heat
33:052	1st Fl Rm 109 Bed Rm	Init:Addr:Detector:Heat
33:053	1st Fl Rm 107 Bed Rm	Init:Addr:Detector:Heat
33:054	1st Fl Rm 107 Liv.Rm	Init:Addr:Detector:Heat
33:055	1st Fl Rm 105 Liv.Rm	Init:Addr:Detector:Heat
33:056	1st Fl Rm 105 Bed Rm	Init:Addr:Detector:Heat
33:058	1st Fl Rm 103 Liv.Rm	Init:Addr:Detector:Heat
33:067	2nd Fl Rm 202 Liv.Rm	Init:Addr:Detector:Heat
33:068	2nd Fl Rm 202 Bed Rm	Init:Addr:Detector:Heat
33:069	2nd Fl Rm 201 Bed Rm	Init:Addr:Detector:Heat
33:070	2nd Fl Rm 201 Liv.Rm	Init:Addr:Detector:Heat
33:071	2nd Fl Rm 216 Liv.Rm	Init:Addr:Detector:Heat
33:072	2nd Fl Rm 216 Bed Rm	Init:Addr:Detector:Heat
33:073	2nd Fl Rm 218 Bed Rm	Init:Addr:Detector:Heat
33:074	2nd Fl Rm 218 Liv.Rm	Init:Addr:Detector:Heat
33:075	2nd Fl Rm 220 Liv.Rm	Init:Addr:Detector:Heat
33:076	2nd Fl Rm 220 Bed Rm	Init:Addr:Detector:Heat
33:077	2nd Fl Rm 222 Bed Rm	Init:Addr:Detector:Heat
33:078	2nd Fl Rm 222 Liv.Rm	Init:Addr:Detector:Heat
33:079	2nd Fl Rm 221 Liv.Rm	Init:Addr:Detector:Heat
33:080	2nd Fl Rm 221 Bed Rm	Init:Addr:Detector:Heat
33:081	2nd Fl Rm 219 Bed Rm	Init:Addr:Detector:Heat
33:082	2nd Fl Rm 219 Liv.Rm	Init:Addr:Detector:Heat
33:083	2nd Fl Rm 217 Liv.Rm	Init:Addr:Detector:Heat
33:084	2nd Fl Rm 217 Bed Rm	Init:Addr:Detector:Heat

INPUT ZONE POINT LISTING

33:085	2nd Fl Laundry Rm	Init:Addr:Detector:Heat
33:093	1st Fl Rm 101 Bed Rm	Init:Addr:Detector:Heat
33:097	Outside P.I.V	Init:Addr:Switch:Tamper
33:098	Outside Vlt Backflow	Init:Addr:Switch:Tamper
33:100	2nd Fl Rm 203 Liv.Rm	Init:Addr:Detector:Heat
33:101	2nd Fl Rm 203 Bed Rm	Init:Addr:Detector:Heat
33:104	Elev Pwr Monitor	Init:Addr:Switch:Supervisory

Zone 2

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
2	Smoke Detectors	1 Count	Low	Medium	135

Point(s) in Zone 2

Point ID	Point Name	Point Type
01:004	2nd Fl N/S Corridor	Init:Addr:Detector:Photo
01:005	2nd Fl N/S Corridor	Init:Addr:Detector:Photo
01:006	2nd Fl N/S Corridor	Init:Addr:Detector:Photo
01:007	2nd Fl N/S Corridor	Init:Addr:Detector:Photo
01:036	3rd Fl E/W Corridor	Init:Addr:Detector:Photo
01:038	3rd Fl E/W Corridor	Init:Addr:Detector:Photo
01:039	3rd Fl E/W Corridor	Init:Addr:Detector:Photo
01:040	3rd Fl E/W Corridor	Init:Addr:Detector:Photo
01:042	3rd Fl W. Stairwell	Init:Addr:Detector:Photo
01:054	3rd FL East Stairwel	Init:Addr:Detector:Photo
01:064	3d Fl Cntr Stairwell	Init:Addr:Detector:Photo
01:065	3rd Fl N/S Corridor	Init:Addr:Detector:Photo
01:066	3rd Fl N/S Corridor	Init:Addr:Detector:Photo
01:067	3rd Fl N/S Corridor	Init:Addr:Detector:Photo
01:068	3rd Fl N/S Corridor	Init:Addr:Detector:Photo
01:084	3rd Fl N. Stairwell	Init:Addr:Detector:Photo
01:100	3rd Fl Jan Clst Smke	Init:Addr:Detector:Photo
33:001	FA Control Room	Init:Addr:Detector:Photo
33:008	1st Fl. E/W Corridor	Init:Addr:Detector:Photo
33:010	1st Fl. E/W Corridor	Init:Addr:Detector:Photo
33:011	1st Fl. E/W Corridor	Init:Addr:Detector:Photo
33:012	1st Fl. E/W Corridor	Init:Addr:Detector:Photo
33:030	1st Fl N/S Corridor	Init:Addr:Detector:Photo
33:031	1st Fl N/S Corridor	Init:Addr:Detector:Photo
33:032	1st Fl N/S Corridor	Init:Addr:Detector:Photo
33:033	1st Fl N/S Corridor	Init:Addr:Detector:Photo
33:061	2nd Fl E/W Corridor	Init:Addr:Detector:Photo
33:063	2nd Fl E/W Corridor	Init:Addr:Detector:Photo
33:064	2nd Fl E/W Corridor	Init:Addr:Detector:Photo
33:065	2nd Fl E/W Corridor	Init:Addr:Detector:Photo
33:086	2nd Fl Jan Clos 223A	Init:Addr:Detector:Photo
33:096	1st Fl Jan. Closet	Init:Addr:Detector:Photo
33:099	Basement Elect. Rm.	Init:Addr:Detector:Photo
33:102	Front Entry Lobby	Init:Addr:Detector:Photo

Zone 3

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
3	Pull Stations	1 Count	Low	Medium	135

Point(s) in Zone 3

Point ID	Point Name	Point Type
01:003	2n Fl Cntr Stairwel	Init:Addr:Switch:Manual Pull
01:008	2nd Fl North Stairs	Init:Addr:Switch:Manual Pull
01:035	3rd Fl West Stairs	Init:Addr:Switch:Manual Pull

01:041	3rd Fl East Stairs	Init:Addr:Switch:Manual Pull
01:063	3d Fl Cntr Stairwell	Init:Addr:Switch:Manual Pull
01:069	3rd Fl North Stairs	Init:Addr:Switch:Manual Pull
33:007	1st Fl. West Stairs	Init:Addr:Switch:Manual Pull
33:013	1st Fl. East Stairs	Init:Addr:Switch:Manual Pull
33:016	1st Fl Lobby	Init:Addr:Switch:Manual Pull
33:025	Recreation Rm 119	Init:Addr:Switch:Manual Pull
33:034	1st Fl North Stairs	Init:Addr:Switch:Manual Pull
33:059	1st Fl Cntr Exit Dr	Init:Addr:Switch:Manual Pull
33:060	2nd Fl West Stair	Init:Addr:Switch:Manual Pull
33:066	2nd Fl East Stairs	Init:Addr:Switch:Manual Pull

Zone 4

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
4	Smk Det Elev Recall	1 Count	Low	Medium	135

Point(s) in Zone 4

Point ID	Point Name	Point Type
01:037	3rd Fl Elev. Lobby	Init:Addr:Detector:Photo
33:002	Bsmnt Elev. Mach Rm	Init:Addr:Detector:Photo
33:062	2nd Fl Elev Lobby	Init:Addr:Detector:Photo

Zone 5

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
5	Smk. Alt Elev Recall	1 Count	Low	Medium	135

Point(s) in Zone 5

Point ID	Point Name	Point Type
33:009	1st Fl. Elev Lobby	Init:Addr:Detector:Photo

Zone 6

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
6	Water Flow	1 Count	Low	Medium	135

Point(s) in Zone 6

Point ID	Point Name	Point Type
01:001	2n Fl Cntr Stairwel	Init:Addr:Switch:Water Flow
01:061	3d Fl Cntr Stairwell	Init:Addr:Switch:Water Flow
33:028	Center Stairwell	Init:Addr:Switch:Water Flow

Zone 7

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
7	Tampers	1 Count	Low	Medium	135

Point(s) in Zone 7

Point ID	Point Name	Point Type
01:002	2n Fl Cntr Stairwel	Init:Addr:Switch:Tamper
01:062	3d Fl Cntr Stairwell	Init:Addr:Switch:Tamper
33:029	Center Stairwell	Init:Addr:Switch:Tamper
33:094	Bsmt Elev Mach Rm	Init:Addr:Switch:Tamper
33:095	FA Control Rm	Init:Addr:Switch:Tamper

INPUT ZONE POINT LISTING

Zone 8

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
8	BPS - Troubles	1 Count	Low	Medium	135

Point(s) in Zone 8

Point ID	Point Name	Point Type
01:098	3rd Fl Rm 323 BPS#5	Init:Addr:Switch:Supervisory
01:099	3rd Fl Rm 323 BPS#6	Init:Addr:Switch:Supervisory
33:087	2nd Fl Jan Clos BPS3	Init:Addr:Switch:Supervisory
33:088	2nd Fl Jan Clos BPS4	Init:Addr:Switch:Supervisory
33:090	1st Fl Rm 119 BPS#1	Init:Addr:Switch:Supervisory
33:091	1st Fl Rm 119 BPS#2	Init:Addr:Switch:Supervisory

Zone 9

ID	Name	Detection Characteristics	Smoke Sensitivity		Heat Sensitivity
			Day	Night	
9	Elev Mach Room	1 Count	Low	Medium	150

Point(s) in Zone 9

Point ID	Point Name	Point Type
33:103	Shunt Trip	Init:Addr:Switch:Detector Input

OUTPUT GROUP SUMMARY

Output Group Configuration

Group ID	Name	Latching
1	Elev Recall	Latching
2	Alt. Elev Recall	Latching
3	Fire Hat Light	Latching
4	Door Release	Latching
5	General Alarm	Latching
6	GROUP_6	Non-Latching
249	GROUP_249 SUPERVSY	Non-Latching
250	GROUP_250 ALARM	Latching

Output Group Characteristics: Silencing and Control

ID	Silencing	Delay	Control	Output Pattern
1	Non-Silenceable	N/A	Zone Control	N/A
2	Non-Silenceable	N/A	Zone Control	N/A
3	Non-Silenceable	N/A	Zone Control	N/A
4	Non-Silenceable	N/A	Zone Control	N/A
5	Silenceable	N/A	Zone Control	N/A
6	Silenceable	N/A	Zone Control	N/A
249	Silenceable	N/A	Zone Control	N/A
250	Non-Silenceable	N/A	Zone Control	N/A

Output Group Characteristics: Global Activation

ID	Manual Pull Activated	Fire Drill Activated	System Aux 1 Activated	System Aux 2 Activated	Ignore Pattern	Reverse Polarity	Voice Group	Voice Switch	Cadance Override
1	No	Yes	No	No	No	No	No		N/A
2	No	Yes	No	No	No	No	No		N/A
3	No	Yes	No	No	No	No	No		N/A
4	No	Yes	No	No	No	No	No		N/A
5	No	Yes	No	No	No	No	No		N/A
6	No	Yes	No	No	No	No	No		N/A
249	No	No	No	No	No	No	No		N/A
250	No	No	No	No	No	No	No		N/A

OUTPUT GROUP POINT LISTING

Group 1

Name	Latching	Silencing	Control
Elev Recall	Latching	Non-Silenceable	Zone Control

Point(s) in Group 1

Point ID	Point Name	Point Type
33:004	Elev Recall	Notif:Addr:Relay:
34:005	MODULE_34 CKT_5	Notif:Conv:
34:006	MODULE_34 CKT_6	Notif:Conv:

Group 2

Name	Latching	Silencing	Control
Alt. Elev Recall	Latching	Non-Silenceable	Zone Control

Point(s) in Group 2

Point ID	Point Name	Point Type
33:005	Alt Elev Recall	Notif:Addr:Relay:

Group 3

Name	Latching	Silencing	Control
Fire Hat Light	Latching	Non-Silenceable	Zone Control

Point(s) in Group 3

Point ID	Point Name	Point Type
33:006	Fire Hat Light	Notif:Addr:Relay:

Group 4

Name	Latching	Silencing	Control
Door Release	Latching	Non-Silenceable	Zone Control

Point(s) in Group 4

Point ID	Point Name	Point Type

Group 5

Name	Latching	Silencing	Control
General Alarm	Latching	Silenceable	Zone Control

Point(s) in Group 5

Point ID	Point Name	Point Type
34:001	1st Flr H/S Trip	Notif:Conv:
34:002	2nd Flr H/S Trip	Notif:Conv:
34:003	3rd Flr H/S Trip	Notif:Conv:

Group 6

Name	Latching	Silencing	Control
GROUP_6	Non-Latching	Silenceable	Zone Control

Point(s) in Group 6

Point ID	Point Name	Point Type

Group 249

Name	Latching	Silencing	Control
GROUP_249 SUPERVSY	Non-Latching	Silenceable	Zone Control

Point(s) in Group 249

Point ID	Point Name	Point Type
34:007	MODULE_34 RELAY_1	Notif:Conv:Relay:

Group 250

Name	Latching	Silencing	Control
GROUP_250 ALARM	Latching	Non-Silenceable	Zone Control

OUTPUT GROUP POINT LISTING

Point(s) in Group 250

Point ID	Point Name	Point Type
34:008	MODULE 34 RELAY 2	Notif:Conv:Relay:

MAPPING REPORT

CST - Constant On
MC - March Code
ANS-3.41 - ANSI 3.41 Temporal
SSBT - Single Stroke Bell Temporal
CC - California Code
ZC1 - Zone 1 Coded
ZC2 - Zone 2 Coded
ZC3 - Zone 3 Coded
ZC4 - Zone 4 Coded
ZC5 - Zone 5 Coded
ZC6 - Zone 6 Coded
ZC7 - Zone 7 Coded
ZC8 - Zone 8 Coded
COP1 - Custom Output Pattern 1
COP2 - Custom Output Pattern 2
COP3 - Custom Output Pattern 3
COP4 - Custom Output Pattern 4
Farday - Faraday Sync
Gentex - Gentex Sync
SysSen - System Sensor Sync
Whelck - Wheelock Sync
Amseco - Amseco Sync
N/A - N/A
ANS-4 - ANSI 4 Temporal

Zone 1 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
4	CST			249	CST													1	CST	249	CST
5	Whel																	250	CST		
250	CST																				

Zone 2 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
4	CST			249	CST													1	CST	249	CST
5	Whel																	250	CST		
250	CST																				

Zone 3 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
				249	CST					4	CST							1	CST	249	CST
										5	Whel							250	CST		
										250	CST										

Zone 4 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
1	CST			249	CST													1	CST	249	CST
4	CST																	250	CST		
5	Whel																				
250	CST																				

Zone 5 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
2	CST			249	CST													1	CST	249	CST
4	CST																	250	CST		
5	Whel																				
250	CST																				

MAPPING REPORT

Zone 6 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
				249	CST			4	CST									1	CST	249	CST
								5	Whel									250	CST		
								250	CST												

Zone 7 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
				249	CST													1	CST	249	CST
																		250	CST		

Zone 8 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
				249	CST													1	CST	249	CST
																		250	CST		

Zone 9 Mapping

Det. Alrm		Trouble		Super.		Pre-Alrm		Water Fl.		Man. Pull		Zn Aux 1		Zn Aux 2		Status Pt.		CO Alarm		CO Super.	
Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.	Grp.	Pat.
3	CST			249	CST													1	CST	249	CST
4	CST																	250	CST		
5	Whel																				
250	CST																				