NOTE FOR FIRE ALARM SYSTEM:

FIRE ALARM	SYSTEM	SHALL	ΒE	SEPARATELY	PERMITTED	AND	SUBMITTED	BY	THE	FIRE
ALARM CON	TRACTOR.									

	FIRE ALARM SYMBOL	LIST				
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED				
$\boxtimes$	FIRE ALARM MANUAL PULL STATION	WALL - 48"AFF				
	ANNUNCIATOR AUDIO/VISUAL	WALL - 6'-8"AFF				
$\boxtimes \!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	COMBINATION HORN/STROBE LIGHT	WALL - 6'-8"AFF				
	GUESTROOM ANNUNCIATOR AUDIO	WALL - 6'-8"AFF				
Ä	STROBE LIGHT	WALL - 6'-8"AFF				
	FIRE BELL	WALL				
<u>S</u>	SMOKE DETECTOR	CEILING				
$(\mathbb{H})$	HEAT DETECTOR	CEILING				
$\overline{\oplus}$	ELEVATOR HEAT DETECTOR	WALL				
	MAGNETIC DOOR HOLDER	WALL				
	SPECIAL DEVICE (AS NOTED)					
R	SHUT DOWN RELAY					
	FLOW SWITCH (SPRINKLER)					
$\Theta$	TAMPER SWITCH (SPRINKLER)					
KS>	SMOKE DETECTOR	WALL				
□ co	CARBON MONOXIDE DETECTOR					
C	2-WAY COMMUNICATION DEVICE	WALL - 48"AFF.				
	FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL (FAAP)					
	FIRE ALARM CONTROL PANEL (FACP)					
(DB	DOOR BELL	WALL				
⊞	CEILING ANNUNCIATOR AUDIO/VISUAL	CEILING				
SH	CEILING COMBINATION HORN/STROBE LIGHT	CEILING				
$\boxtimes$	MANUAL PUSH BUTTON					
Ġ.	INDICATES HANDICAP ACCESS SUITE					
7	INDICATES HEARING IMPAIRED SUITE					

# FIRE ALARM SEQUENCE OF OPERATION

- 1. WHEN SMOKE IS SENSED IN A SUITE, SMOKE DETECTOR SHALL ACTIVATE HORN/STROBE WITHIN THAT SUITE ONLY.
- 2. AN ALARM SIGNAL SHALL BE SENT TO THE FIRE ALARM ANNUNCIATOR PANEL LOCATED AT FRONT DESK. FRONT DESK SHALL BE CONSTANTLY ATTENDED. THE AUTOMATIC FIRE ALARM CONTROL UNIT SHALL TRANSMIT AN ALARM TO THE FIRE DEPARTMENT OR MONITORING STATION. IF ROOM HAS MULTIPLE SMOKE DETECTORS, HORN/STROBE SHALL BE LINKED TOGETHER SO THAT WHEN DETECTOR GOES INTO ALARM ALL HORN SHALL
- 3. FIRE ALARM CONTROL PANEL SHALL INDICATE WHICH ROOM IS IN

SOUND AND STROBES SHALL FLASH.

4. HANDICAP SUITES SHALL HAVE ADDITIONAL STROBES LOCATED IN SUITES AS SHOWN ON DRAWINGS. WHEN SMOKE DETECTORS ARE IN ALARM THE HORN SHALL SOUND AND STROBES SHALL FLASH.

# B. GENERAL ALARM:

- 1. WITH THE ACTIVATION OF ANY CORRIDOR, COMMON AREA, SMOKE DETECTOR, MANUAL PULL STATION OR SPRINKLER SYSTEM. THE FIRE ALARM SYSTEM SHALL AUTOMATICALLY GO INTO ALARM. ALL HORN SHALL SOUND AND STROBES SHALL FLASH THIS INCLUDES GUESTROOMS.
- 2. ELEVATOR SHAFT VENT DAMPERS SHALL ACTIVATE UPON ALARM FROM ANY SMOKE/HEAT DETECTOR LOCATED IN ELEVATOR LOBBY OR ELEVATOR SHAFT.
- 3. REFERENCE FIRE ALARM CONTROL DRAWINGS FOR SEQUENCE OF OPERATION OF ALL FIRE ALARM EQUIPMENT REQUIRED TO

# C. SUPERVISORY ALARM:

- 1. SPRINKLER TAMPER SWITCH ACTIVATION SHALL INITIATE AN AUDIOVISUAL SUPERVISORY ALARM AT THE FIRE ALARM CONTROL UNIT. SPRINKLER TAMPER SWITCH ACTIVATION SHALL GENERATE A FULL FIRE ALARM ACTIVATION.
- 2. SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM DEPARTMENT OR MONITORING STATION.

ALARM AT THE FIRE ALARM CONTROL UNIT.

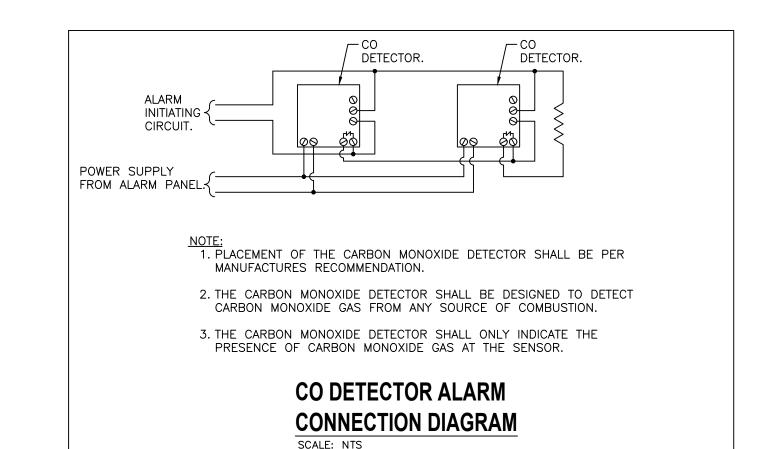
OPERATE UPON ACTIVATION OF FIRE ALARM.

- D. TROUBLE ALARM: 1. A TROUBLE ALARM SHALL INITIATE AN AUDIOVISUAL TROUBLE
- 2. A TROUBLE SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM DEPARTMENT OR MONITORING STATION

# FIRE ALARM NOTES:

- 1. THESE FIRE ALARM DOCUMENTS ARE INTENDED TO SHOW MINIMUM REQUIRED DETECTION AND NOTIFICATION DEVICES ONLY. THE AWARDED FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR A COMPLETE FIRE ALARM SYSTEM DESIGN. THE SUBCONTRACTOR IS REQUIRED TO PROVIDE ALL DEVICES REQUIRED TO MEET APPLICALE CODES, PROJECT SPECIFICATION REQUIREMENTS, AND THE AHJ REQUIREMENTS. THE SUBCONTRACTOR IS REQUIRED TO COMPLY WITH ALL PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING SIGNED AND SEALED CALCULATIONS & SHOP DRAWINGS BY A QUALIFIED PROFESSIONAL ENGINEER. THE SUBCONTRACTOR SHALL PRODUCE SHOP DRAWINGS, REQUIRED BATTERY POWER CALCULATION, INTERCONNECTION WIRING DIAGRAMS, POWER SUPPLY DESIGN AND REQUIREMENTS, DATASHEETS, ETC. THESE DOCUMENTS SHALL SUBMITTED BY THE SUBCONTRACTOR FOR REVIEW AND/ OR APPROVAL BY THE AHJ AND ENGINEER AS REQUIRED
- PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM INCLUDING ALL NECESSARY COMPONENTS TO CREATE A COMPLETE, FULLY FUNCTIONAL, CODE COMPLIANT SYSTEM. PROVIDE EQUIPMENT, MATERIALS, INSTALLATION, WORKMANSHIP, INSPECTION, AND TESTING IN ACCORDANCE WITH THE REQUIRED AND ADVISORY PROVISIONS OF NFPA 72.
- 3. PROVIDE AN INTELLIGENT, ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP) WITH 24VDC SYSTEM OPERATION. CONTROL PANEL SHALL COMPLY WITH UL 864. CABINET SHALL BE LOCKABLE STEEL CABINET
- 4. THE FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW A MINIMAL QUANTITY OF DEVICES. THE FINAL QUANTITY AND LOCATION OF ALL DEVICES TO BE COMPLIANT WITH ALL APPLICABLE CODES AND STANDARDS SHALL BE PREPARED BY FIRE ALARM CONTRACTOR AND SUBMIT TO FIRE MARSHAL FOR FINAL APPROVAL. PROVIDE ADDITIONAL DEVICES WHEN REQUIRED FOR A FULLY FUNCTIONING FIRE ALARM SYSTEM AS REQUIRED BY NFPA 72
- 5. SMOKE DETECTORS SHALL BE INSTALLED MINIMUM 3'-0" FROM HVAC SUPPLY AIR DIFFUSERS.
- 6. CONNECT ALL FIRE/SMOKE DAMPERS TO POWER SUPPLY WA FIRE ALARM RELAY. DAMPERS SHALL CLOSE UPON ACTIVATION OF BUILDING GENERAL ALARM.
- 7. PROVIDE SMOKE DETECTION IN ATTIC SPACE WHEN REQUIRED BY LOCAL AUTHORITIES.
- 8. VERIFY LOCATION OF THE FIRE ALARM CONTROL PANEL WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
- 9. PROVIDE INTERLOCKS TO THE BUILDING FIRE ALARM SYSTEM TO PROVIDE AUTOMATIC SIGNALING TO AN APPROVED LOCATION WITH ADEQUATE DIALING AND COMMUNICATION SYSTEM TO ALERT THE LOCAL FIRE DEPARTMENT. A LEASED TELEPHONE LINE WILL BE PROVIDED BY THE OWNER.
- 10. ALL JUNCTION BOXES AND COVER PLATES TO EMERGENCY SYSTEM SHALL BE PAINTED RED FOR QUICK RECOGNITION.
- 11. REFERENCE FIRE ALARM DRAWINGS FOR EXACT LOCATION OF ALL FIRE ALARM EQUIPMENT AND FIRE/SMOKE DAMPERS.
- 12. ALL CONTROL AND ALARM CABLES SHALL BE INSTALLED IN CONDUIT.
- 13. CONTRACTOR SHALL VERIFY THAT THE QUANTITY AND LOCATIONS SHOWN ON THE DRAWINGS SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM TO THE OWNER.
- 14. FIRE ALARM CONTRACTOR SHALL PROVIDE FINAL LAYOUT AND PLACEMENT FOR ALL FIRE ALARM DEVICES TO MEET NFPA 72 AND LOCAL CODES AND ORDINANCES.
- 15. REQUIREMENTS FOR FIRE PROTECTION SERVICE EQUIPMENT AND MATERIAL SHALL HAVE BEEN TESTED BY AND LISTED BY UL AND/OR BY FM.
- 16. THE INSTALLING CONTRACTOR SHALL PROVIDE THE FOLLOWING: NICET FIRE ALARM TECHNICIANS TO PERFORM THE INSTALLATION OF THE SYSTEM. A NICET LEVEL 4 FIRE ALARM TECHNICIAN SHALL SUPERVISE THE INSTALLATION OF THE FIRE ALARM SYSTEM OR A FIRE ALARM TECHNICIAN WITH A MINIMUM OF 8 YEARS OF EXPERIENCE SHALL PERFORM/SUPERVISE THE INSTALLATION OF THE FIRE ALARM SYSTEM. THE FIRE ALARM TECHNICIANS SUPERVISING THE INSTALLATION OF EQUIPMENT SHALL BE FACTORY TRAINED IN THE INSTALLATION, ADJUSTMENT, TESTING, AND OPERATION OF THE EQUIPMENT SPECIFIED HEREIN AND ON THE DRAWINGS.
- 17. CONTRACTOR SHALL PROVIDE BREAKERS, CONDUIT, AND WRING POWER FOR ALL BOOSTER POWER SUPPLIES AS REQUIRED PER THE FIRE ALARM VENDOR DRAWINGS.
- 18. PROVIDE MINIMUM 20 PERCENT SPARE ZONES FOR FOR ALARM CONTROL PANEL.
- 19. THE FIRE ALARM SYSTEM BACKUP BATTERIES SHALL BE CAPABLE OF POWERING THE LOAD FOR A DURATION OF NOT LESS THAN 24 HOURS, AS REQUIRED IN NFPA 72.
- 20. CONTRACTOR SHALL CONFIRM THE MAXIMUM SOUND PRESSURE LEVEL FOR AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL BE 110 DBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. WHERE THE AVERAGE AMBIENT NOISE IS GREATER THAN 95 DBA, VISIBLE ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72 AND AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL NOT BE REQUIRED.
- 21. FIRE ALARM DEVICES IN POOL EQUIPMENT AND POOL STORAGE TO BE LISTED FOR CORROSIVE ENVIRONMENTS.
- 22. FIRE ALARM CONTRACTOR SHALL PROVIDE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM TO MEET IFC CODE REQUIREMENT.
- 23. THE COMPLETE FIRE ALARM SYSTEM MUST BE TESTED, BALANCED, AND COMMISSIONED BY QUALIFIED COMMISSIONER AGENT DURING THE CONSTRUCTION PHASE PRIOR TO FULL OPERATION. FAILURE TO PROPERLY CONDUCT TESTING, BALANCING, AND COMMISSIONING THE FIRE ALARM SYSTEM SHALL RESULT IN SYSTEM DYSFUNCTION, WHICH IS FULLY RESPONSIBLE BY THE CONTRACTOR.
- 24. THE CONTRACTORS SHALL CONSTRUCT MEP SYSTEM ACCORDING TO MEPG'S PLANS, CALCULATION, DETAILS AND SPECIFICATION. ALL REQUESTS FOR ALTERNATE MATERIAL, EQUIPMENT AND SOLUTIONS MUST BE
- SUBMITTED THROUGH REQUEST FOR INFORMATION (RFI). FAILURE TO SUBMIT THE RFI SHALL RESULT IN THE DISAPPROVAL OF CHANGE ORDER (IF ANY) FOR THE PROPOSED ALTERNATE MATERIAL, EQUIPMENT, AND SOLUTION.
- 25. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE SPECIFIED EQUIPMENT'S INSTALLATION MANUAL FROM THE MANUFACTURER.
- 26. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE LOCAL BUILDING CODE OF AUTHORITY HAVING JURISDICTION.
- 27. PROVIDE OFF-SITE SUPERVISING STATION SERVICE THAT RECEIVES AND RECORDS ALL GENERAL FIRE ALARM SIGNALS AND NOTIFIED THE LOCAL FIRE DEPARTMENT.

## SPRINKLER TAMPER SWITCH. TO ADDITIONAL FLOW AND SPRINKLER FLOW — TAMPER SWITCHES. SWITCH. TO ADDITIONAL INITIATING DEVICES. TO ADDITIONAL INDICATING APPLIANCES. TO SMOKE DAMPERS. AUTODIALER (LOCATE IN FIRE ALARM TO ADDITIONAL -NETWORK RM). INDICATING CONTROL APPLIANCES. POWFR SUPPLY INTERFACE TO FIRE ALARM SYSTEM MAGNETIC DOOR — REMOTE ANNUNCIATOR HOLDERS (WHERE REQUIRED). FIRE ALARM **WIRING DIAGRAM**



# NOTES FOR CARBON MONOXIDE DETECTION:

CARBON MONOXIDE DETECTION SHALL BE INSTALLED IN NEW BUILDINGS IN ACCORDANCE WITH 2021 IFC SECTIONS 915.1.1 THROUGH 915.6.

FOR A HOTEL BUILDING, CARBON MONOXIDE DETECTORS SHALL BE REQUIRED IN:

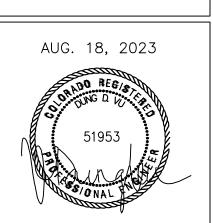
1. DWELLING UNITS, SLEEPING UNITS THAT CONTAIN A FUEL-BURNING APPLIANCE OR A FUEL-BURNING FIREPLACE.

- 2. DWELLING UNITS, SLEEPING UNITS SERVED BY A FUEL-BURNING, FORCED-AIR FURNACE. EXCEPTION (CARBON MONOXIDE DETECTORS SHALL NOT BE REQUIRED IN):
- a) DWELLING UNITS, SLEEPING UNITS IF CARBON MONOXIDE DETECTION IS PROVIDED IN THE FIRST ROOM OR AREA SERVED BY EACH MAIN DUCT LEAVING THE FÜRNACE, AND THE CARBON MONOXIDE ALARM SIGNALS ARE AUTOMATICALLY TRANSMITTED TO AN APPROVED LOCATION.
- 3. DWELLING UNITS, SLEEPING UNITS LOCATED IN BUILDINGS THAT CONTAIN FUEL BURNING APPLIANCES OR FUEL-BURNING FIREPLACES. EXCEPTION (CARBON MONOXIDE DETECTORS SHALL NOT BE REQUIRED IN):
- a) DWELLING UNITS, SLEEPING UNITS WHERE THERE ARE NO COMMUNICATING OPENINGS BETWEEN THE FUEL-BURNING APPLIANCE OR FUEL-BURNING FIREPLACE AND THE DWELLING UNIT OR SLEEPING UNIT.
- b) DWELLING UNITS, SLEEPING UNITS WHERE CARBON MONOXIDE DETECTION IS PROVIDED IN ONE OF THE FOLLOWING LOCATIONS: -IN AN APPROVED LOCATION BETWEEN THE FUEL BURNING APPLIANCE OR FUEL-BURNING FIREPLACE AND THE DWELLING UNIT, SLEEPING UNIT -ON THE CEILING OF THE ROOM CONTAINING THE FUEL-BURNING APPLIANCE OR FUEL-BURNING FIREPLACE.
- 4. DWELLING UNITS, SLEEPING UNITS IN BUILDINGS WITH ATTACHED PRIVATE GARAGES.
- EXCEPTION (CARBON MONOXIDE DETECTORS SHALL NOT BE REQUIRED IN): a) WHERE THERE ARE NO COMMUNICATING OPENINGS BETWEEN THE PRIVATE GARAGE AND THE DWELLING UNIT. SLEEPING UNIT.
- b) DWELLING UNITS, SLEEPING UNITS LOCATED MORE THAN ONE STORY ABOVE OR BELOW A PRIVATE GARAGE. c) WHERE THE PRIVATE GARAGE CONNECTS TO THE BUILDING THROUGH AN OPEN-ENDED CORRIDOR.
- d) WHERE CARBON MONOXIDE DETECTION IS PROVIDED IN AN APPROVED LOCATION BETWEEN OPENINGS TO A PRIVATE GARAGE AND DWELLING UNITS, SLEEPING UNITS, CARBON MONOXIDE DETECTION SHALL NOT BE REQUIRED IN THE DWELLING UNITS, SLEEPING UNITS

ALBUQUERQUE NEW MEXICO 87199-3368 info@design2functionllc.com 505-823-6481



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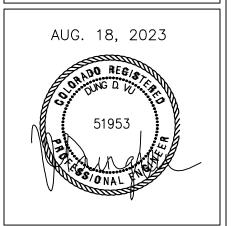
FIRE ALARM

**FA1.0** 

ONELINE DIAGRAM









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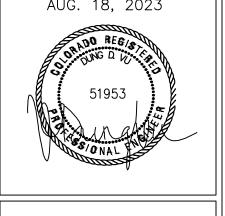
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SHEET TITLE:
FIRE ALARM
FIRST FLOOR PLAN











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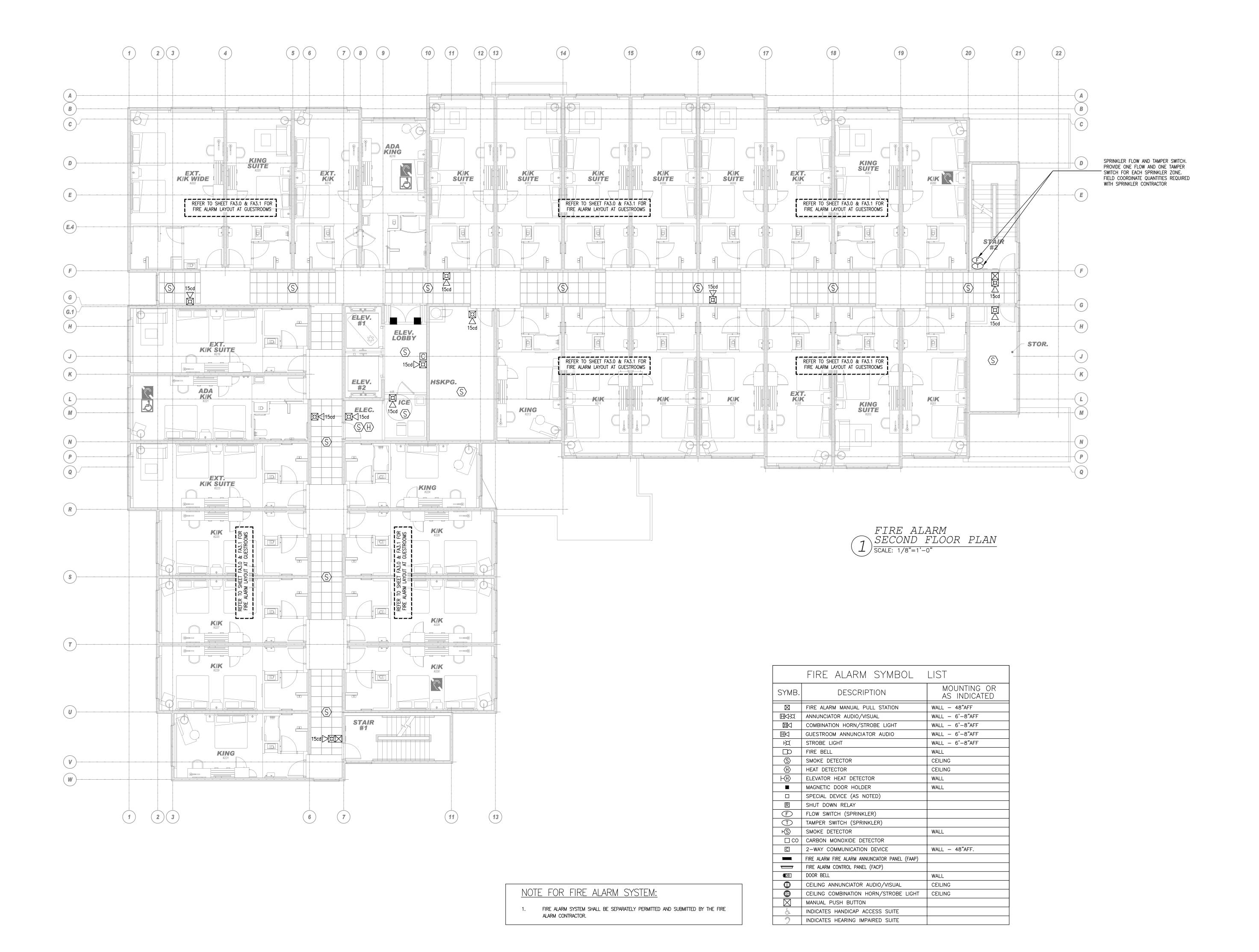
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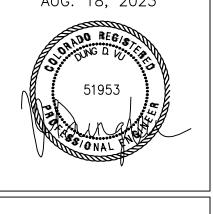
FIRE ALARM SECOND FLOOR PLAN











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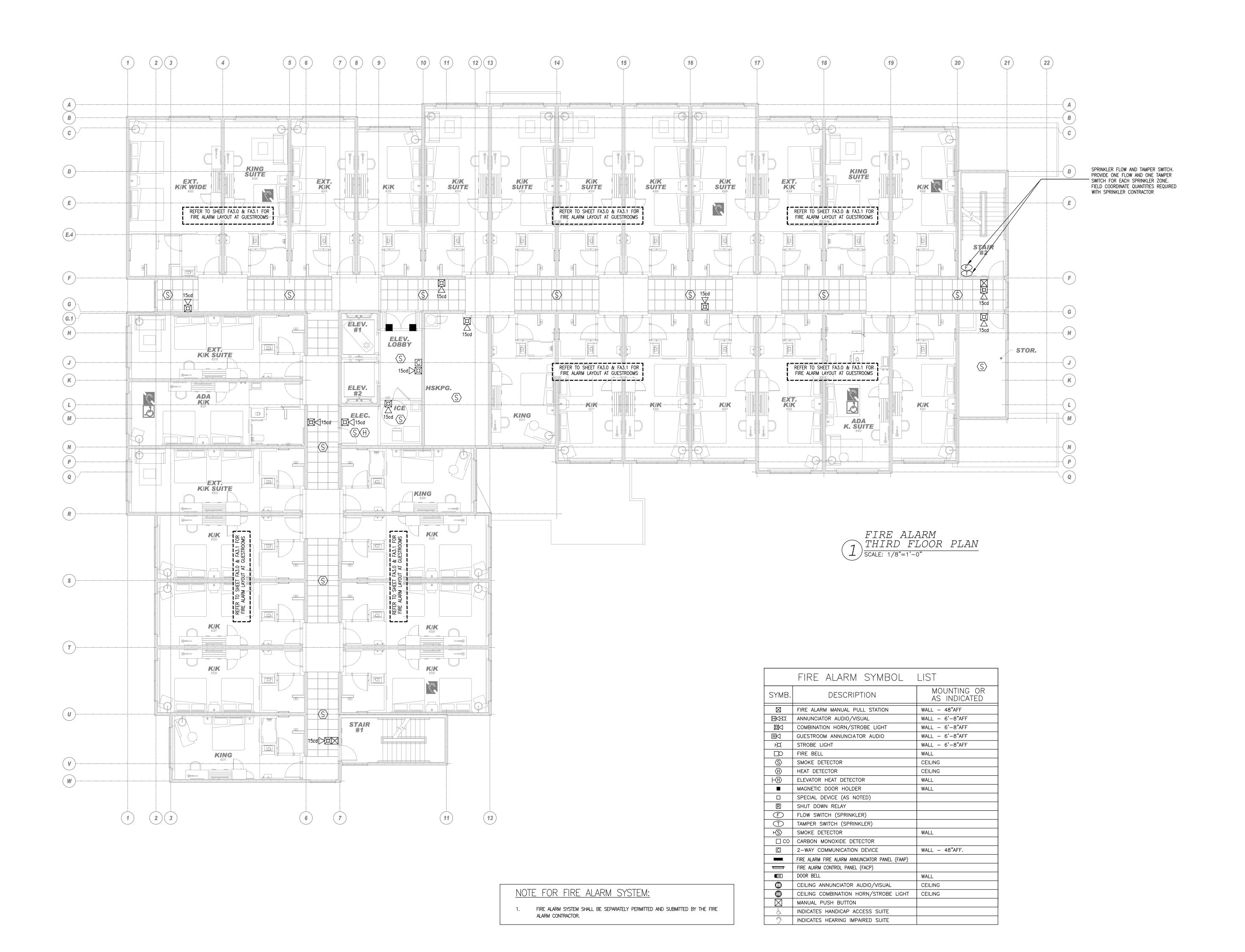
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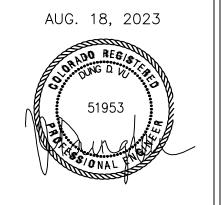
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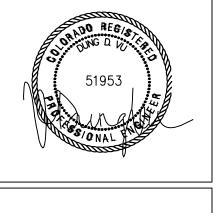
FIRE ALARM THIRD FLOOR PLAN











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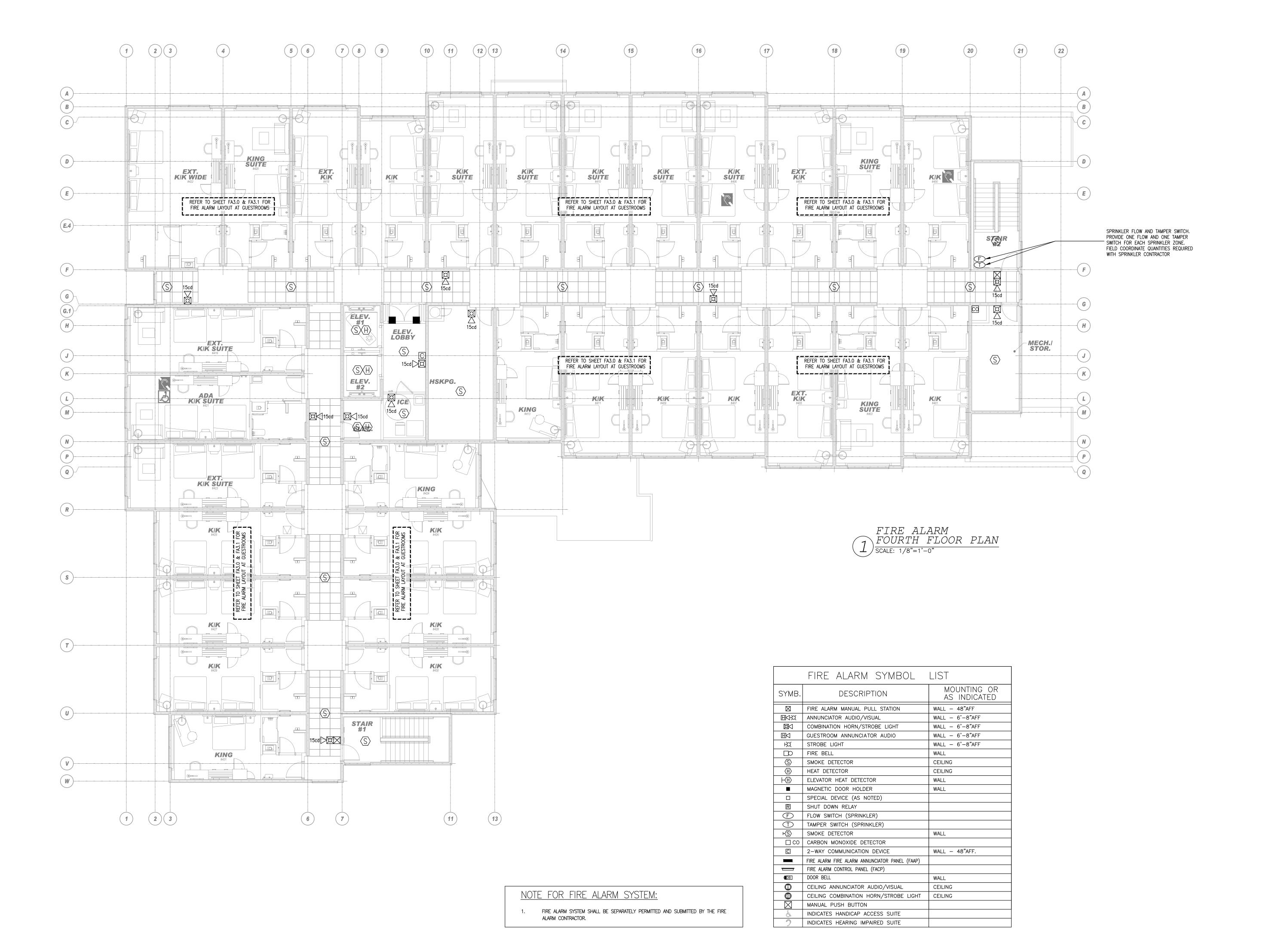
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FIRE ALARM FOURTH FLOOR PLAN





KEYED NOTES:

NOT USED.

(FOR COMMUNICATION FEATURE ROOMS ONLY)

1. DOORBELL ON/OFF SWITCH (FOR COMMUNICATION FEATURE ROOMS ONLY)- SIGNAGE

2. DOORBELL HARDWIRED TO DOORBELL LIGHT-MOUNT @48" AFF TO CENTER OF BUTTON

PROVIDE FIRE HORN / STROBE (FOR COMMUNICATION FEATURE ROOMS) AND FIRE HORN (FOR NON-COMMUNICATION FEATURE ROOMS)

6. DOOR BELL (FOR COMMUNICATION FEATURE ROOMS ONLY). VERIFY LOCATION WITH

4. PROVIDE FIRE STROBE (FOR COMMUNICATION FEATURE ROOMS ONLY)

ARCHITECHTURAL / ID & FIRE MARSHAL PRIOR TO INSTALLATION.

NOTE FOR FIRE ALARM SYSTEM:

NOTES ON FA1.0 FOR EXCEPTION CASES).

AND CODES REQUIREMENT.

**GENERAL NOTES:** 

FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

A. GUEST ROOMS & BATHROOMS FOR ACCESSIBLE & HEARING IMPAIRED SHALL HAVE AN

B. INSTALL PUSH BUTTON AT EACH ACCESSIBLE & HEARING IMPAIRED ROOMS FOR VISUAL ALARM, NOTIFICATION DEVICES & TELEPHONES.

D. THE CONTRACTOR HAVE TO DOUBLE-CHECK THE NUMBERS AND POSITIONS OF

C. SMOKE DETECTORS IN EACH GUEST ROOM ALSO BE EQUIPPED WITH CO MONITORING. (SEE

HEARING-IMPAIRED AND ADA/ ACCESSIBLE ROOMS ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL INSTALL ALL FIRE ALARM DEVICES ACCORDING TO THE FRANCHISE

AUDIBLE & VISUAL ALARM ACTIVATED BY THE IN ROOM SMOKE DETECTOR & AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE BLDG. FIRE ALARM SYSTEM.

# HO

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MEP GREEN DESIGN & BUILD

FAST AND ACCURATE

AUG. 18, 2023

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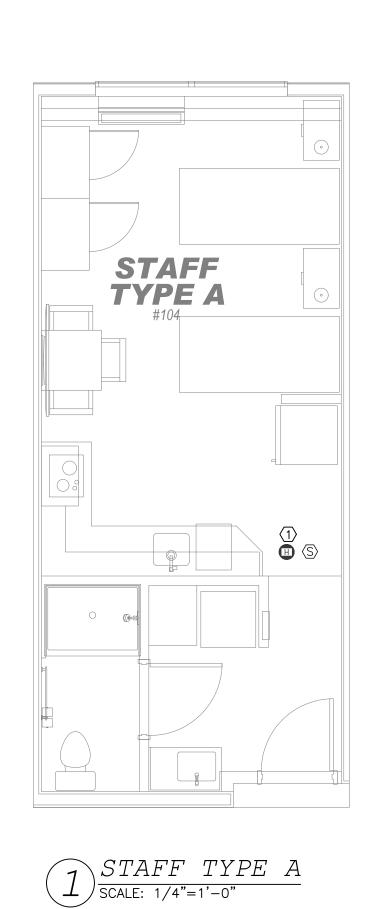
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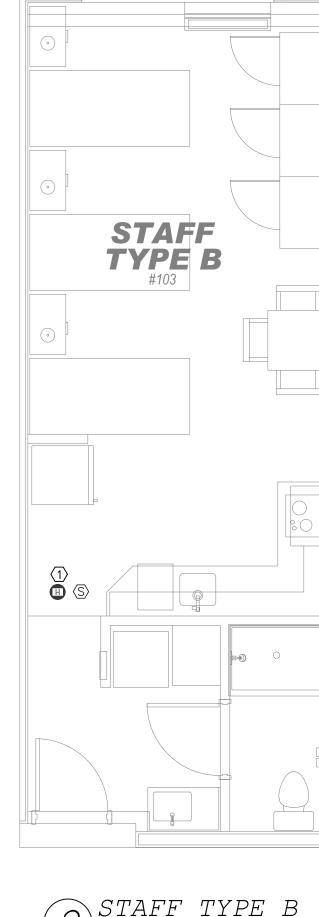
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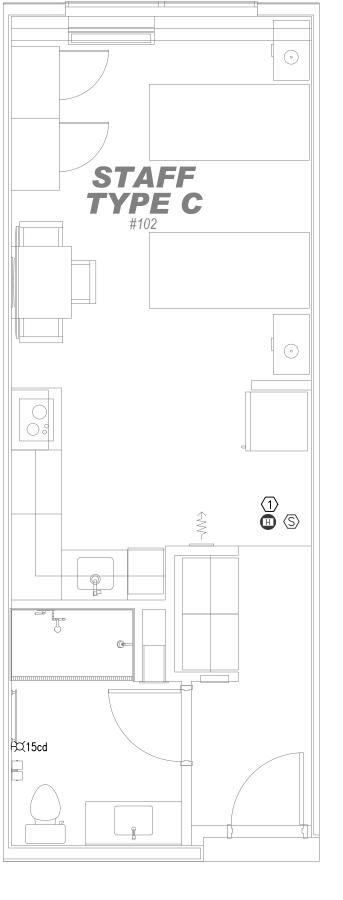
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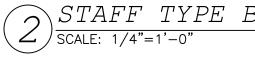
PROJECT MANAGER: DRAWN BY: SHEET TITLE: FIRE ALARM

GUESTROOM PLAN









 $3\frac{STAFF\ TYPE\ C}{SCALE:\ 1/4"=1'-0"}$ 

# NOTE FOR FIRE ALARM SYSTEM:

1. FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

# **GENERAL NOTES:**

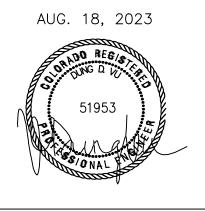
- A. GUEST ROOMS & BATHROOMS FOR ACCESSIBLE & HEARING IMPAIRED SHALL HAVE AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE IN ROOM SMOKE DETECTOR & AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE BLDG. FIRE ALARM SYSTEM.
- B. INSTALL PUSH BUTTON AT EACH ACCESSIBLE & HEARING IMPAIRED ROOMS FOR VISUAL ALARM, NOTIFICATION DEVICES & TELEPHONES.
- C. SMOKE DETECTORS IN EACH GUEST ROOM ALSO BE EQUIPPED WITH CO MONITORING. (SEE NOTES ON FA1.0 FOR EXCEPTION CASES).
- D. THE CONTRACTOR HAVE TO DOUBLE-CHECK THE NUMBERS AND POSITIONS OF HEARING-IMPAIRED AND ADA/ ACCESSIBLE ROOMS ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL INSTALL ALL FIRE ALARM DEVICES ACCORDING TO THE FRANCHISE AND CODES REQUIREMENT.

# KEYED NOTES:

PROVIDE FIRE HORN / STROBE (FOR COMMUNICATION FEATURE ROOMS) AND FIRE HORN (FOR NON-COMMUNICATION FEATURE ROOMS)

GREEN DESIGN & BUILD FAST AND ACCURATE

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