

CODE INFORMATION

FACILITY NAME: EASTSIDE DEVELOPMENT

ADDRESS: NE HAGAN RD LEE'S SUMMIT MISSOURI
OWNER: THE CITY OF LEE'S SUMMIT

PROJECT SCOPE
NEW APPROXIMATELY 40,000 SF FOOTPRINT, WITH 30,000 SF FOR AIRPLANE STORAGE AS FBO SERVICE., 10,000 SF FOR LSR7 SCHOOL DISTRICT, 8,700 FOR FBO TERMINAL, AND 2,400 SF FOR GSE EQUIPMENT STORAGE.

- ADOPTED CODES
- 2018 INTERNATIONAL BUILDING CODE
 - 2018 INTERNATIONAL MECHANICAL CODE
 - 2018 INTERNATIONAL PLUMBING CODE
 - 2017 NATIONAL ELECTRICAL CODE
 - 2018 INTERNATIONAL FIRE CODE
 - 2018 INTERNATIONAL ENERGY CODE
 - 2021 LIFE NFPA SAFETY CODE
 - ICC/ANSI A117.1-2009
 - NFPA 409 (2016 BY REFERENCE BUT BY ACCEPTANCE NEWER 2022 VERSION IS BASIS OF DESIGN)
 - ORDINANCES OF THE UNITED GOVERNMENT OF LEE'S SUMMIT, MISSOURI
 - NFPA 72 (2016)

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NFPA 409 FOR THE STORAGE OF AIRCRAFT
SECTION 6.1.2 GROUP II AIRCRAFT HANGAR: HANGAR SHALL HAVE AN AIRCRAFT ACCESS DOOR HEIGHT OF 28 FT MAXIMUM AND A SINGLE FIRE AREA OF MAXIMUM 40,000 SQFT FOR TYPE II CONSTRUCTION PER TABLE 6.1.2.
THE PROTECTION REQUIREMENTS IN 9.1.1 SHALL BE PERMITTED TO BE MODIFIED WITHIN THE AIRCRAFT STORAGE AND SERVICE AREA WHERE A RISK ASSESSMENT, AS OUTLINED IN SECTION 4.2 FIRE RISK ASSESSMENT IS SUBMITTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

LEE'S SUMMIT MUNICIPAL AIRPORT
LTX HANGER

CONSTRUCTION OF GROUP I AND GROUP II AIRCRAFT HANGARS CHAPTER 7
SECTION 7.3.3 PARTITIONS AND CEILINGS SEPARATING AIRCRAFT STORAGE AND SERVICING AREAS FROM ALL OTHER AREAS, SHOPS, OFFICES, AND PARTS STORAGE AREAS SHALL HAVE AT LEAST A 1-HOUR FIRE RESISTANCE RATING WITH OPENINGS PROTECTED BY LISTED FIRE DOORS OR SHUTTERS HAVING A MINIMUM FIRE RESISTANCE RATING OF 45 MINUTES.

SECTION 7.7.3.2 THE USE OF NOZZLES OR OPEN-HEAD SPRINKLERS WITH ANY NOMINAL K-FACTOR FOR COLUMN PROTECTION SHALL BE PERMITTED

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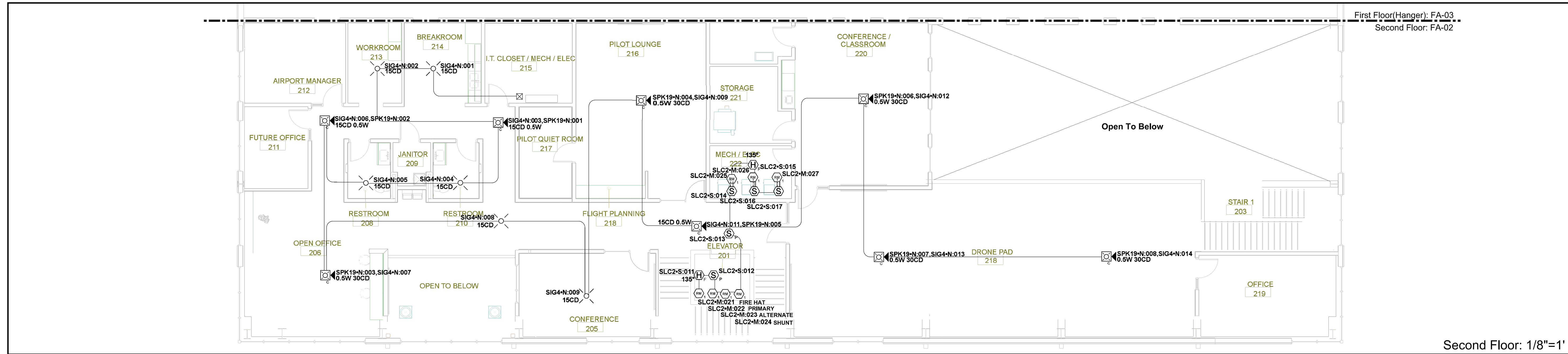
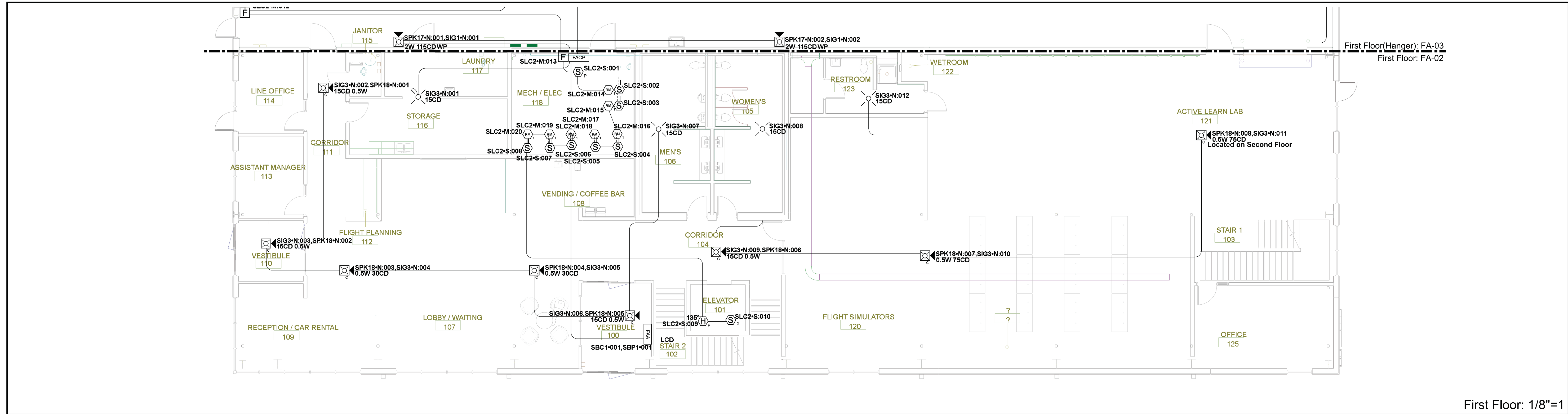
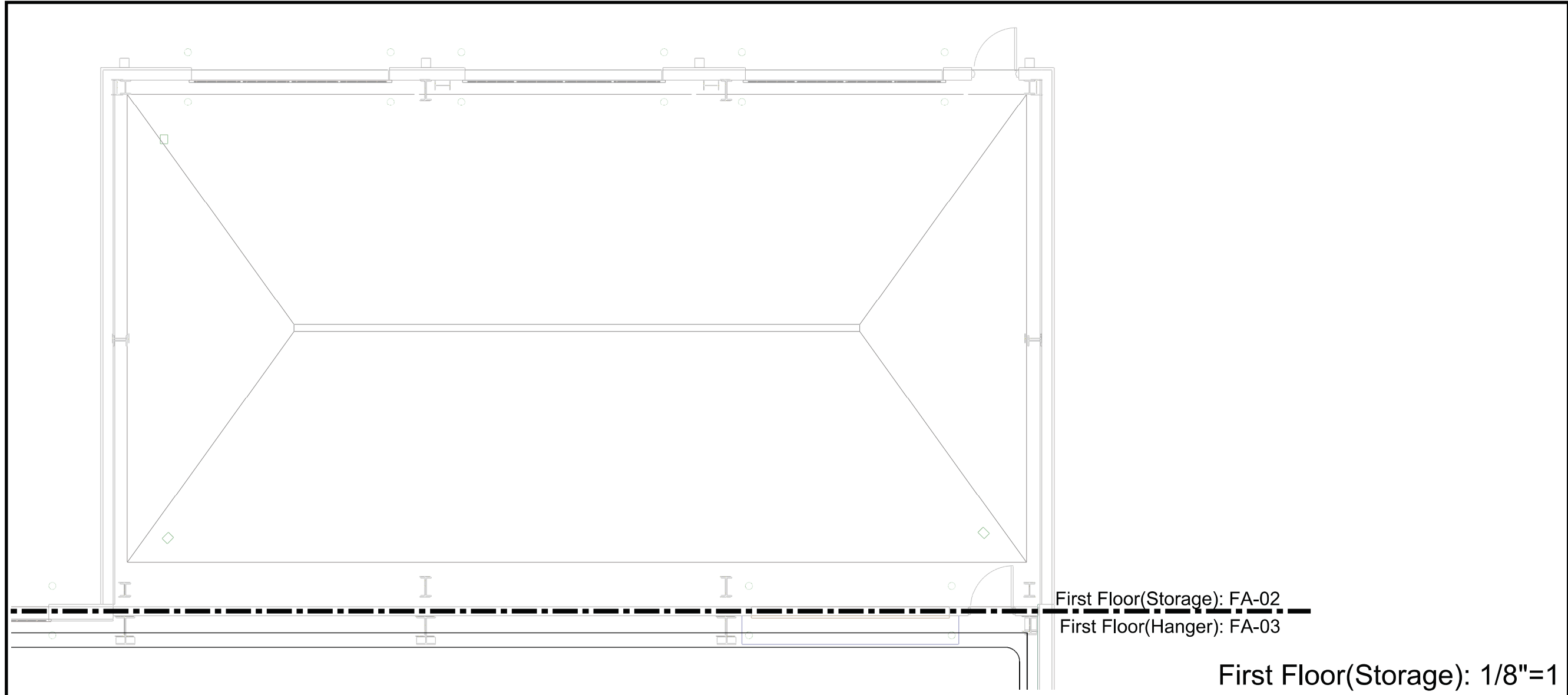
PROJECT SCOPE
NEW APPROXIMATELY 40,000 SF FOOTPRINT, WITH 30,000 SF FOR AIRPLANE STORAGE AS FBO SERVICE., 10,000 SF FOR LSR7 SCHOOL DISTRICT, 8,700 FOR FBO TERMINAL, AND 2,400 SF FOR GSE EQUIPMENT STORAGE.

Battery and Circuit Calculations

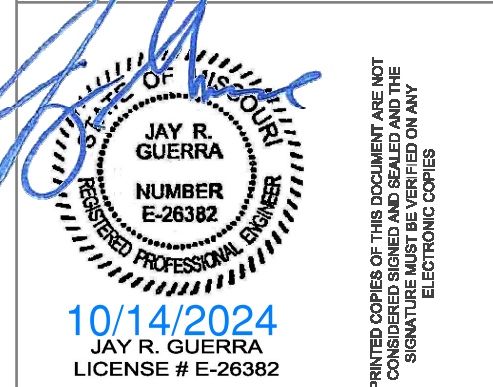
Battery Calculations for Panel FACP									
Part No.	Qty.	Part Description	Distance	Current	Voltage	Initial Drop	Final Voltage	Initial Drop	Final Voltage
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE	1	PULL STATION, DOUBLE ACTION, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUAL MONITOR MODULE	1	DUAL MONITOR MODULE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
SPEAKER/STROBE, M-C, RED, CEILING	1	SPEAKER/STROBE, M-C, RED, CEILING	0.00	0.00	24.00	0.00	24.00	0.00	24.00
HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
STROBE, CEILING, RED	1	STROBE, CEILING, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
WALL SPEAKER STROBE RED OUTDOOR	1	WALL SPEAKER STROBE RED OUTDOOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	1	110-PT ADDRESSABLE FACP, EMERGENCY VOICE SYSTEM	0.00	0.00	24.00	0.00	24.00	0.00	24.00
DUCT DETECTOR W/PHOTO SENSOR	1	DUCT DETECTOR W/PHOTO SENSOR	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	1	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	1	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
RELAY MODULE, ADDRESSABLE	1	RELAY MODULE, ADDRESSABLE	0.00	0.00	24.00	0.00	24.00	0.00	24.00
REMOTE LCD ANNUNCIATOR, RED	1	REMOTE LCD ANNUNCIATOR, RED	0.00	0.00	24.00	0.00	24.00	0.00	24.00
PULL STATION, DOUBLE ACTION, ADDRESSABLE									

NOTES:

1. All smoke detectors shall be located a minimum of three (3) feet from any HVAC diffuser.
2. All manual pull station shall be mounted no less than 42" to the bottom of the box, and no more than 48" to the top of the box from the finished floor.
3. All strobe and horn/strobes shall be located so the bottom of the device is not less than 80 inches above the finished floor and not greater than 96 inches above the finished floor.
4. All notification devices shall be located no less than 6 inches below finished ceilings.
5. The candela rating of the strobes or horn/strobes shall be shown on the drawings.
6. The location of the notification devices shall be at a uniform height for all devices.
7. All cables, conduits, or wire mold shall be securely fastened to the structure.
8. Smoke detectors shall be located in the ceiling no less than 4 inches from a sidewall to the nearest edge of the detector.
9. Drawings indicate general fire alarm device locations and Field Verify device locations with minimal deviations and document any changes.
10. FACP & Power Supplies shall be on a dedicated 120V, 20A circuit breaker marked in red with lock-on provision.
11. Fire Alarm wire paths are reserved for fire alarm cabling only. Including all UL listed fire barrier penetrations.
12. Outdoor Weatherproof Horn/Strobe is to be mounted 10' 00" AFF in line with the FDC.
13. All ceilings are 10' or below unless otherwise noted.
14. Default batteries are 18 - amp hour unless otherwise noted.
15. LED Remote Test Switches are to be mounted directly below the duct detector. Per NFPA 70, NEC, the manual controls shall be located more than 6'-6" above the finished.
16. In the bottom of the elevator hoist-way which is sprinklered the detectors shall be with 24" of the sprinkler head.



PROFESSIONAL ENGINEER STAMP:



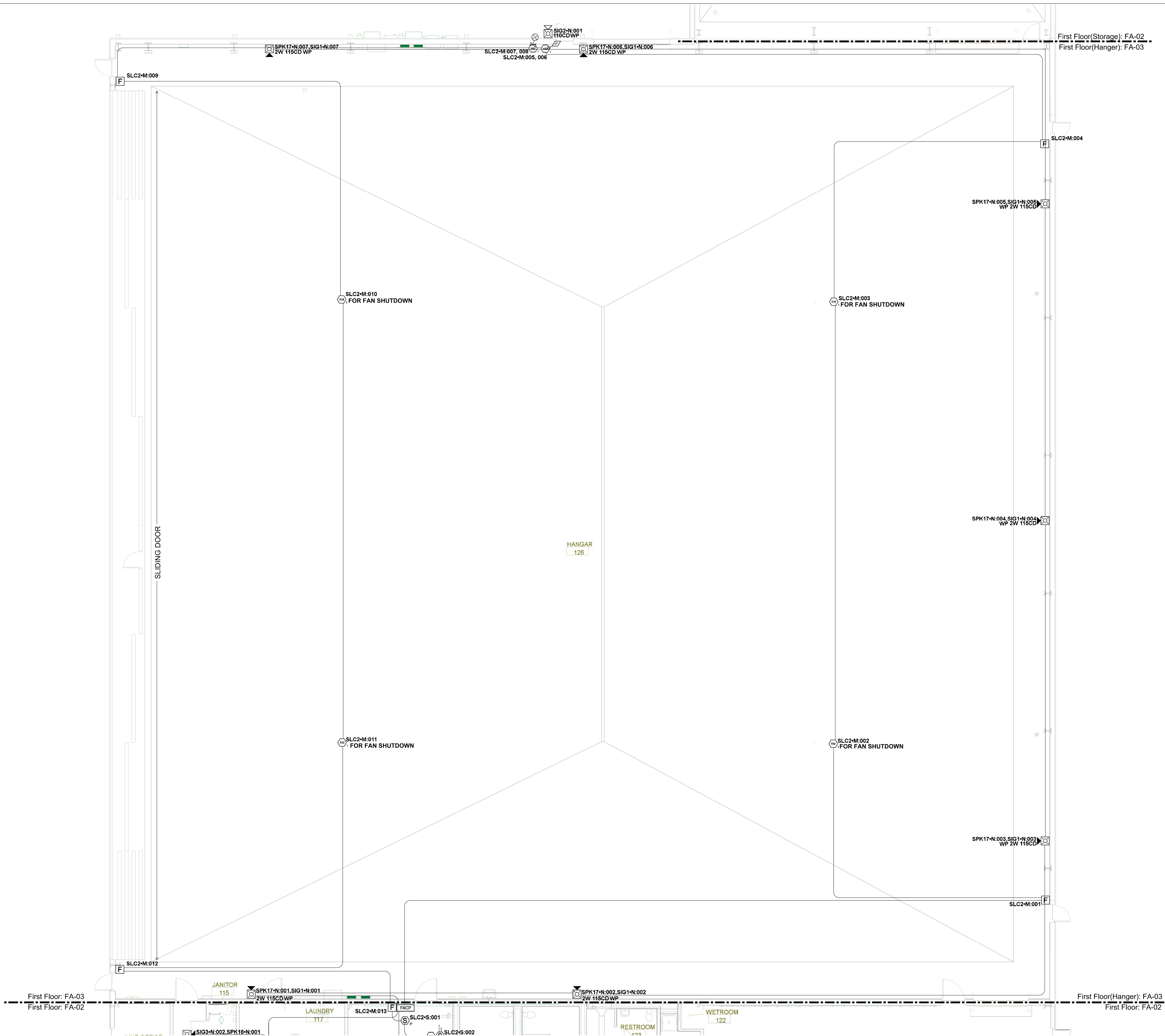
REVISIONS:	DATE:

LTX
HANGER

SITE: NE HAGAN RD LEE'S SUMMIT MISSOURI

TITLE: Device Installation, NFPA 72 Reference

SCALE AT:	DATE:	DESIGNED BY:
PROJECT NO: 10159	10/9/2024	
DRAWING NO: FA-02	REVISION:	



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GIBBENS DRAKE SCOTT, INC
Missouri State Certificate of Authority #000816
9201 E. 63rd STREET, SUITE 100
RAYTOWN, MISSOURI 64133

PROFESSIONAL ENGINEER STAMP:

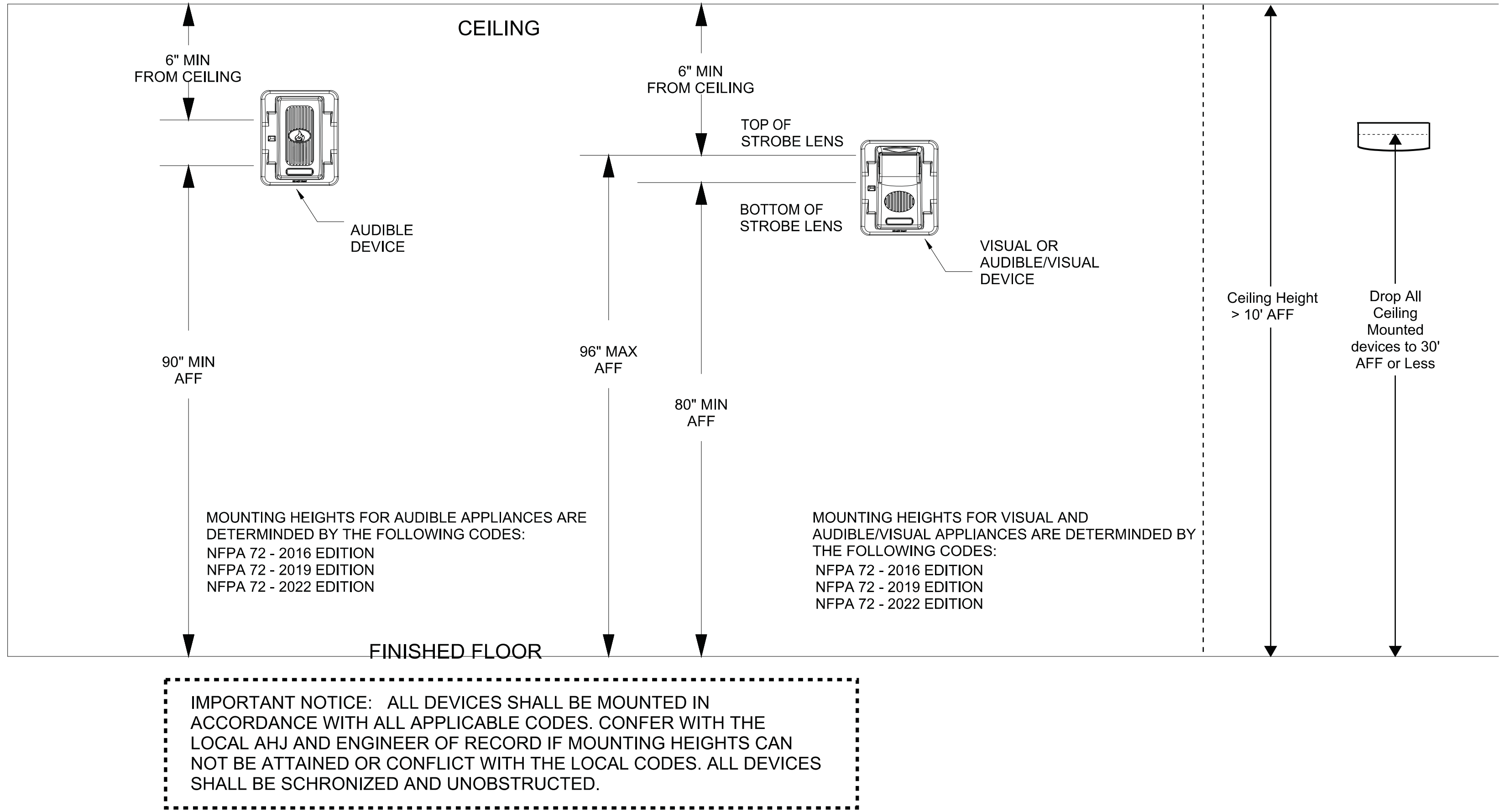
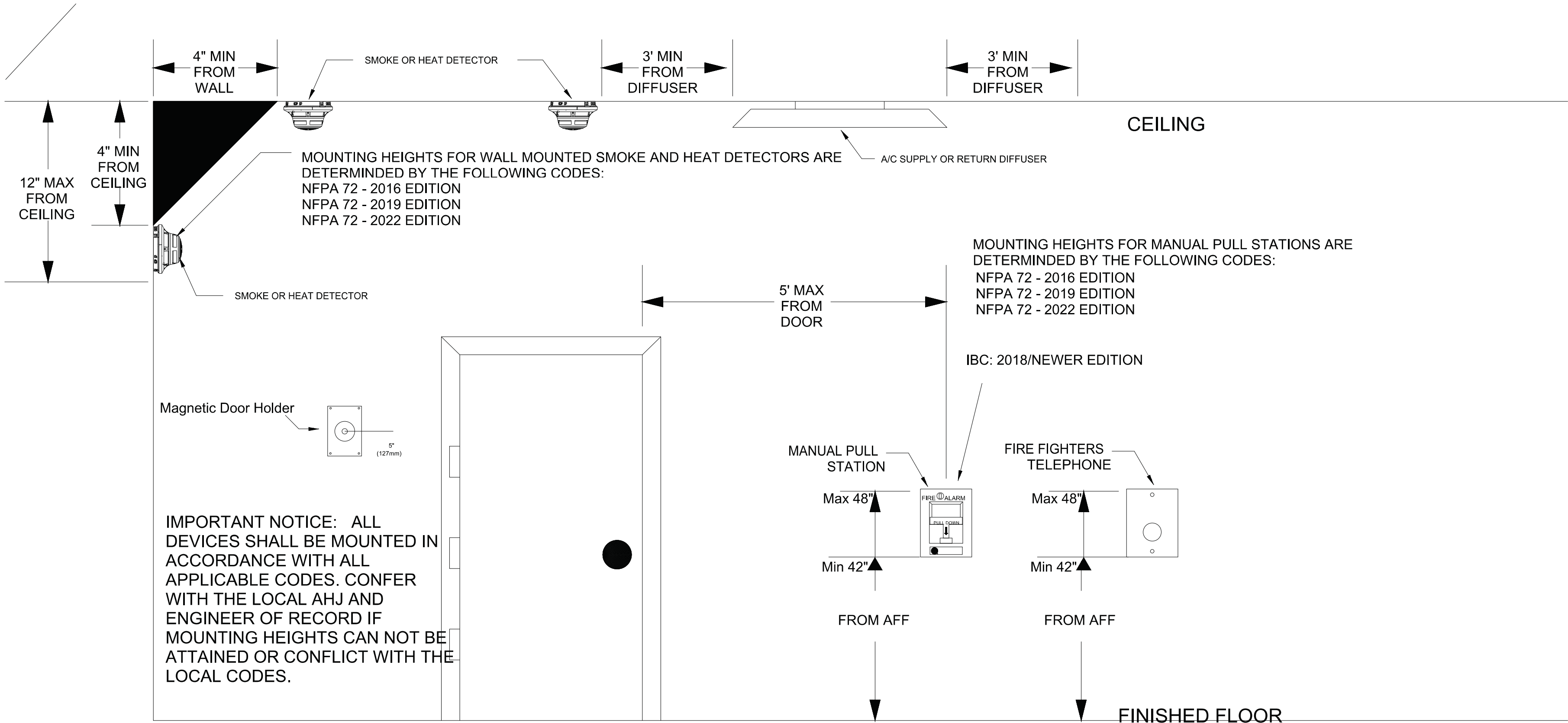
JAY R. GUERRA
NUMBER E-26382
10/14/2024
JAY R. GUERRA
LICENSE # E-26382

REVISIONS:	DATE:

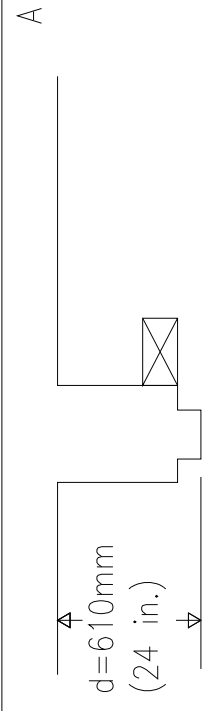
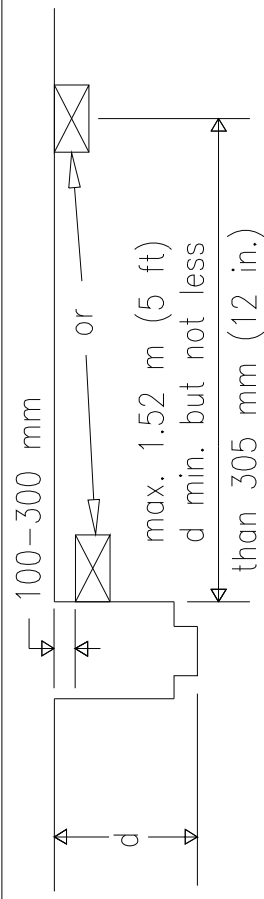
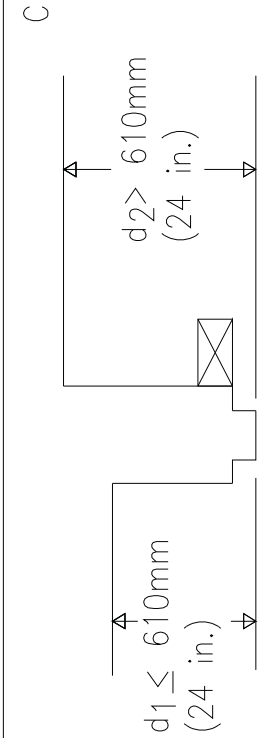
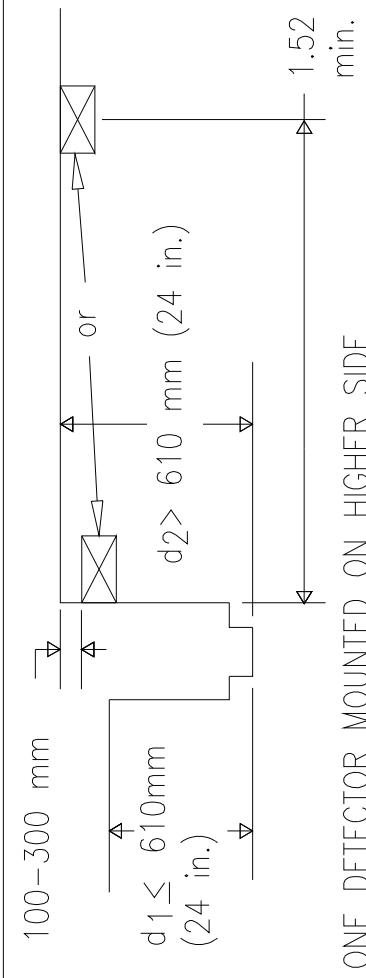
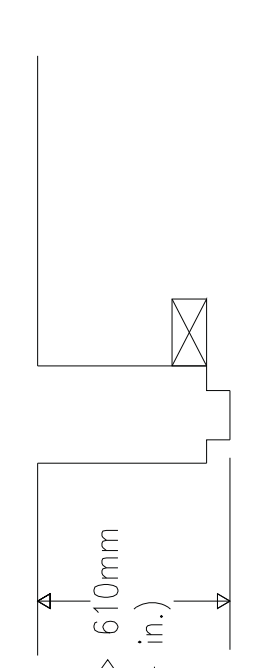
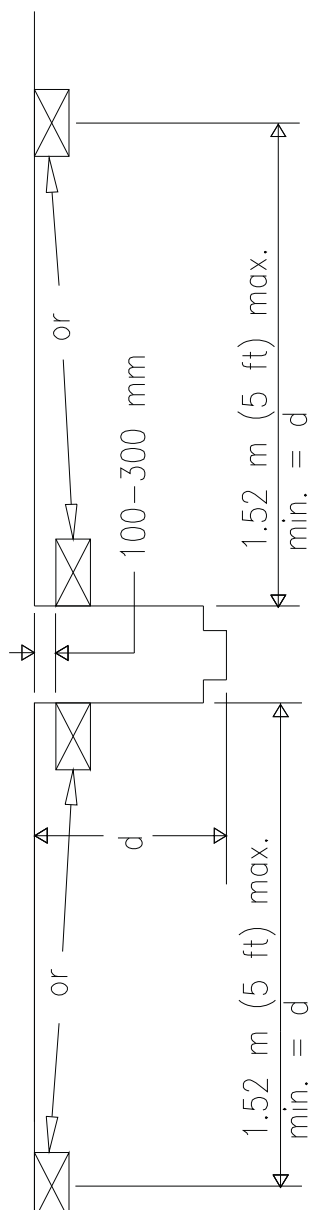
ENVISION
TECHNOLOGY GROUP
913-491-1700 6985 W 153rd St
913-491-1701 Overland Park, KS 66223

LTX HANGER

SITE: 604 W 47th St Kansas City, Missouri 64112		
TITLE: Device Installation, NFPA 72 Reference		
SCALE AT:	DATE: 10/9/2024	DESIGNED BY:
PROJECT NO: 10159	DRAWING NO: FA-03	REVISION:



DETECTOR LOCATION REQUIREMENTS FOR WALL SECTIONS
NFPA 72

DEPTH OF WALL SECTION ABOVE DOOR	DOOR FRAME MOUNTED	CEILING MOUNTED
d	SMOKE DETECTOR LISTED FOR FRAME MOUNTING OR AS PART OF CLOSER ASSEMBLY	SMOKE DETECTOR CEILING MOUNTED
0 – 610 mm (0 – 24 in.) ON BOTH SIDES OF DOORWAY	A  DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	B  ONE DETECTOR MOUNTED ON EITHER SIDE
OVER 610 mm (24 in.) ON ONE SIDE ONLY	C  DETECTOR OR DETECTOR CLOSER MOUNTED ON HIGHER SIDE	D  ONE DETECTOR MOUNTED ON HIGHER SIDE
OVER 610 mm (24 in.) ON BOTH SIDES	E  DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	F  TWO DETECTORS REQUIRED
OVER 1524 mm (60 in.)	MIGHT REQUIRE ADDITIONAL DETECTORS	

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PROFESSIONAL ENGINEER STAMP:
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NUMBER E-26382
10/14/2024
LICENSE # E-26382

REVISIONS:	DATE:

ENVISION TECHNOLOGY GROUP
913-491-1700 6985 W 153rd St
913-491-1701 Overland Park, KS 66223

LTX HANGER

SITE: 604 W 47th St Kansas City, Missouri 64112

TITLE: Device Installation, NFPA 72 Reference

SCALE AT:	DATE: 10/9/2024	DESIGNED BY:
PROJECT NO: 10159	DRAWING NO: FA-04	REVISION:

NFPA 72 Device Reference