

CITY OF LEE'S SUMMIT

FIRE STATION #5

801 Missouri Highway 150

Lee's Summit, Missouri 64082

CODE INFORMATION

- I. Applicable Codes
- A. 2015 IBC
 - C. 2014 ICC 500
 - D. ICC/ANSI A117.1-2009
 - E. 28 CODE OF FEDERAL REGULATIONS (CFR) PART 35.15 AS DETAILED IN THE DEPARTMENT OF JUSTICE TITLE II ADA REGULATIONS AND THE 2010 ADA STANDARDS OF ACCESSIBLE DESIGN

- II. Building Information:
- A. II-B Construction (Per IBC 601)
 - B. Fully Sprinklered (Per IBC 901.2)
 - C. Full Perimeter Frontage (Per IBC 506.3)
 - D. Use Group: Mixed Non-separated S-1, S-2, B, R-2 (Per IBC 508.3)
- Occupant Load (IBC Table 1004.1.2)
- | | |
|--------------|-----------|
| Business | 19 |
| Residential | 8 |
| Storage | 25 |
| Total | 52 |

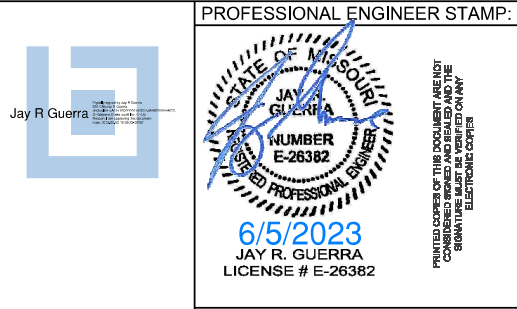
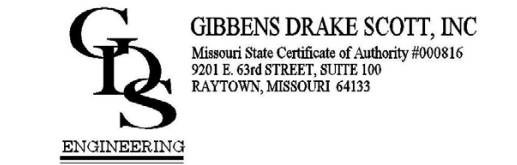
Scope:	This Project is new construction of a Fire Station in Lee's Summit. The building is fully sprinklered. Envision will install a full fire alarm system as well as monitoring of the sprinkler system.
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Wiring Legend	
SLC	18/2 UNS SOL FPLP Red Jkt
NAC	14/2 UNS SOL FPLP Red Jkt
P-Link	18/4 UNS SOL FPLP Red Jkt

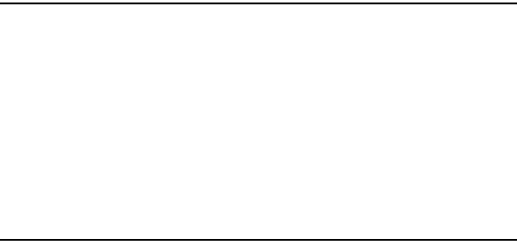
Sheet Index	
FA - 1	Cover Page
FA - 2	First Floor Plan
FA - 3	Second Floor Plan
FA - 4	Batter & Circuit Calculations, Operational Matrix, and Riser Diagram
FA - 5	NFPA 72 Reference

Symbol Legend	
SYMBOL	DESCRIPTION
	FACP ADDRESSABLE 198 OR 318 POINTS
	INTELLIGENT PWR EXPANDER, 6-AMP, 4-NAC
	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE
	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE
	ADVANCED MULTI-CRITERIA FIRE/CO DETECTOR, WHITE
	PULL STATION, DOUBLE ACTION, ADDRESSABLE
	RELAY MODULE, ADDRESSABLE
	REMOTE LCD ANNUNCIATOR, RED
	DUAL MONITOR MODULE
	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR
	L-SERIES STROBE, RED, WALL
	L-SERIES 2-WIRE, HORN STROBE, RED, WALL
	HORN/STROBE, 2-WIRE, M-C HIGH, LOW FREQ, RED
	4.7KΩ 4.7K

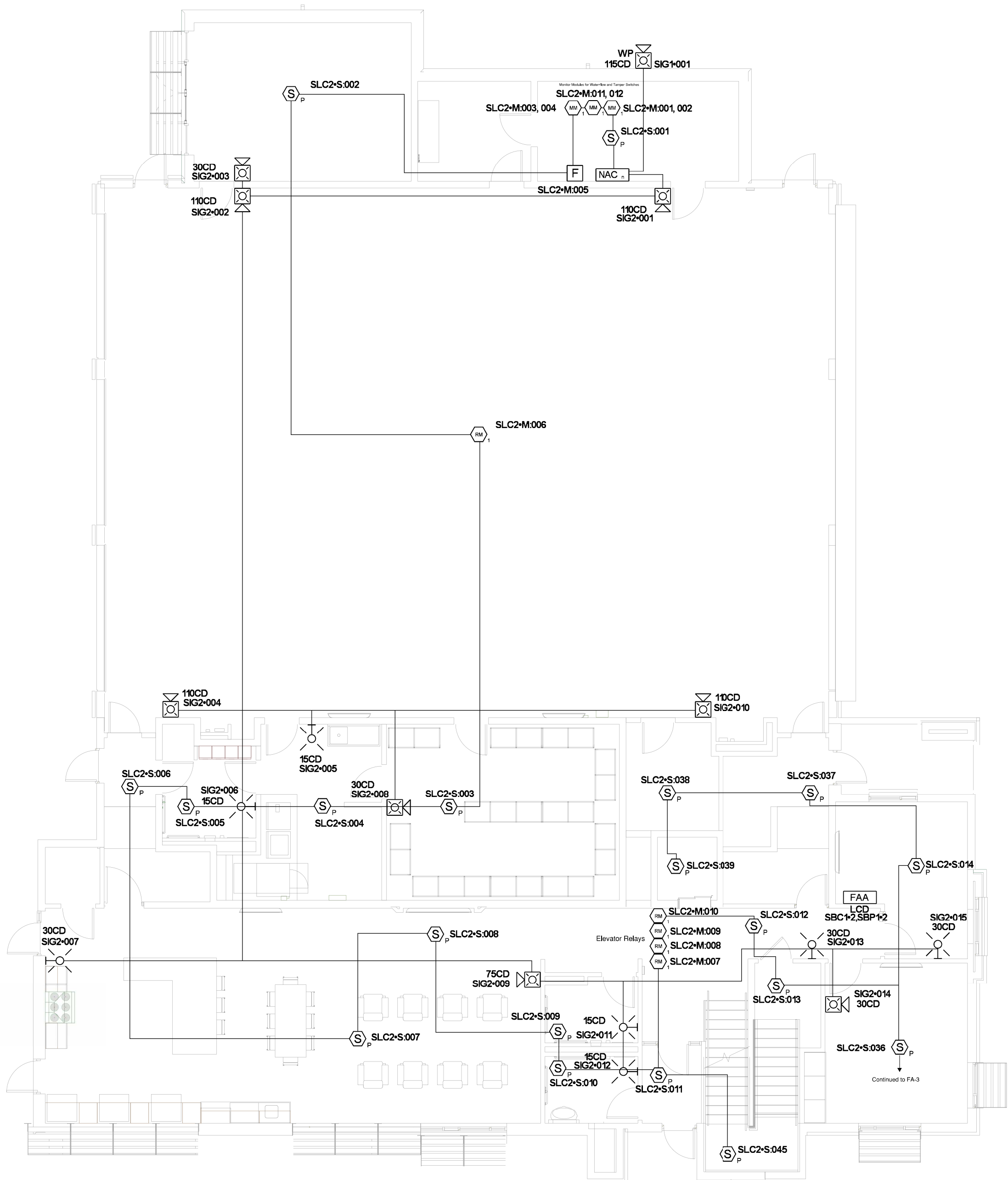
- NOTES:
- All smoke detectors shall be located a minimum of three (3) feet from any HVAC diffuser.
 - All manual pull stations shall be mounted four (4) feet above the finished floor (centerline of device, +or-6inches), unless otherwise noted.
 - All strobe and horn/strobes shall be located so the bottom of the device is not less than 80 inches above the finished floor and not greater than 96 inches above the finished floor.
 - All notification devices shall be located no less than 6 inches below finished ceilings.
 - The candela rating of the strobes or horn/strobes shall be shown on the drawings.
 - The location of the notification devices shall be at a uniform height for all devices.
 - All cables, conduits, or wire mold shall be securely fastened to the structure.
 - Smoke detectors shall be located in the ceiling no less than 4 inches from a sidewall to the nearest edge of the detector.
 - Drawings indicate general fire alarm device locations and Field Verify device locations with minimal deviations and document any changes.
 - FACP & Power Supplies shall be on a dedicated 120V, 20A circuit breaker marked in red with lock-on provision.
 - Fire Alarm wire paths are reserved for fire alarm cabling only. Including all UL listed fire barrier penetrations.
 - Outdoor Weatherproof Horn/Strobe is to be mounted 10' 00" AFF FDC.
 - All ceilings are 10' or below unless otherwise noted.
 - Default batteries are 18 - amp hour unless otherwise noted.
 - Remote Test Stations to be mounted on the wall 5' AFF.



REVISIONS:		DATE:



SITE: 801 Missouri Highway 150 Lee's Summit, Missouri 64082		
TITLE: Cover Page		
SCALE AT:	DATE: 5-31-2023	DESIGNED BY:
PROJECT NO:	DRAWING NO: FA-1	REVISION:



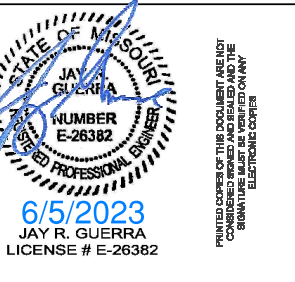
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GIBBENS DRAKE SCOTT, INC
Missouri State Certificate of Authority #000816
9201 E. 63rd STREET, SUITE 100
BAYTOWN, MISSOURI 64133

PROFESSIONAL ENGINEER STAMP:



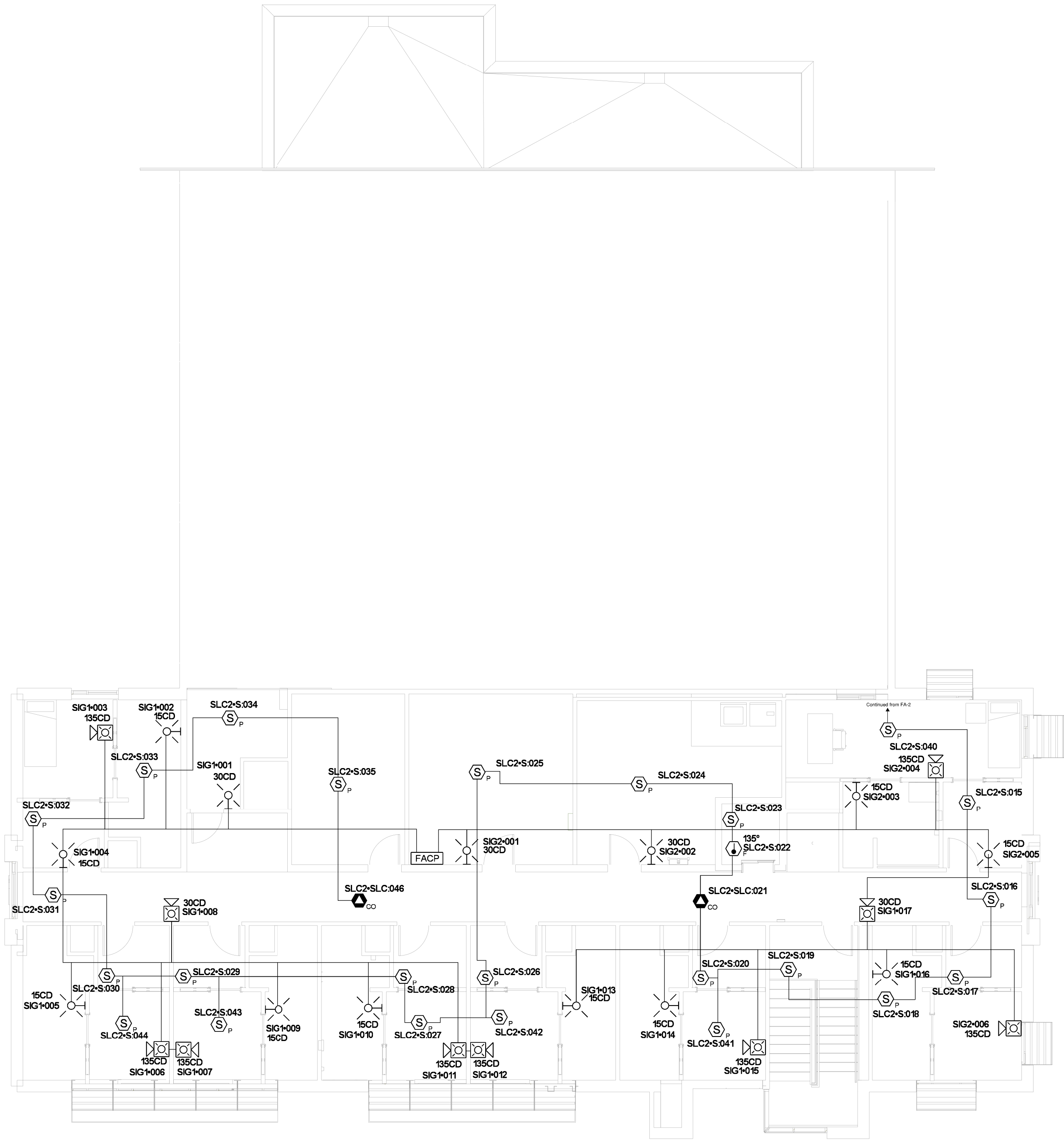
REVISIONS:		DATE:

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

SITE: 801 Missouri Highway 150
Lee's Summit, Missouri 64082

TITLE: First Floor Plan

SCALE AT:	DATE: 5-31-2023	DESIGNED BY:
PROJECT NO:	DRAWING NO: FA-2	REVISION:



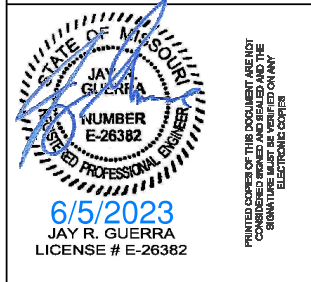
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RAYTOWN, MISSOURI 64133

PROFESSIONAL ENGINEER STAMP:



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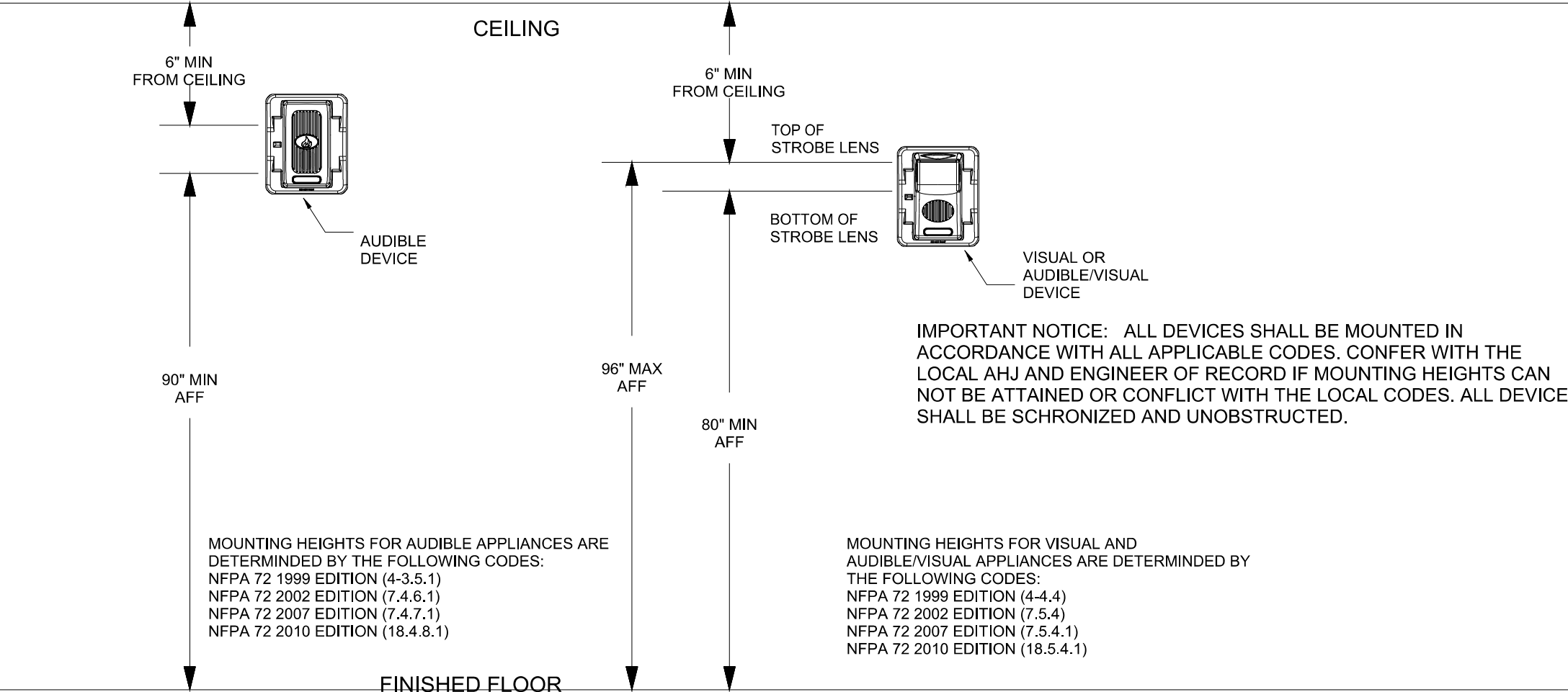
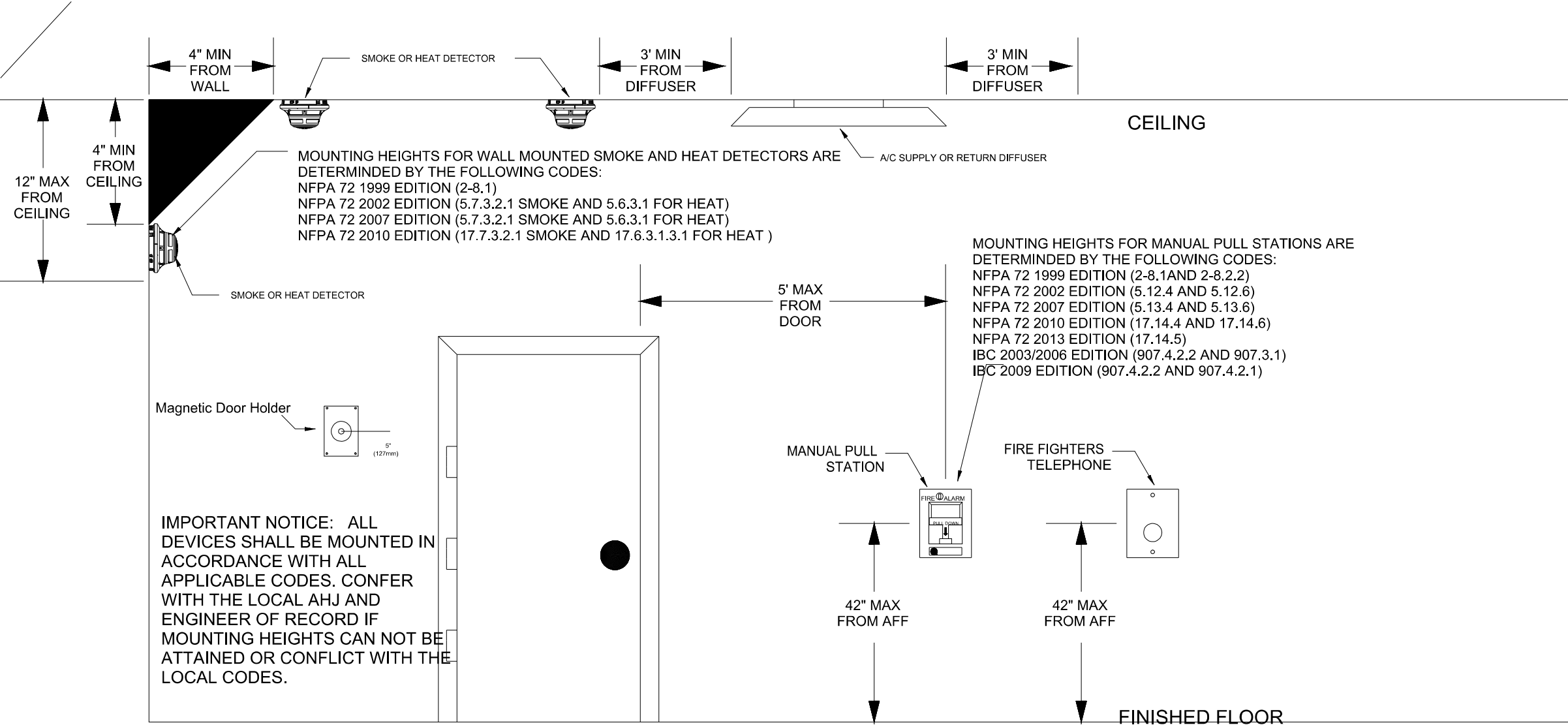
ENVISION
TECHNOLOGY GROUP
913-491-1700 6985 W 153rd St
913-491-1701 Overland Park, KS 66223

SITE: 801 Missouri Highway 150
Lee's Summit, Missouri 64082

TITLE: Second Floor Plan

SCALE AT:	DATE: 5-31-2023	DESIGNED BY:
PROJECT NO:	DRAWING NO: FA-3	REVISION:

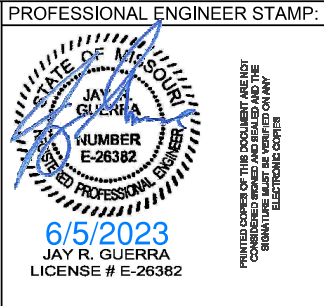
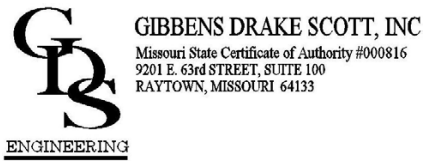
REVISION



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 d=610mm (24 in.) DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	B 100-300 mm max. 1.52 m (5 ft) d min. but not less than 305 mm (12 in.) ONE DETECTOR MOUNTED ON EITHER SIDE
OVER 610 mm (24 in.) ON ONE SIDE ONLY	C d1 ≤ 610mm (24 in.) d2 > 610mm (24 in.) DETECTOR OR DETECTOR CLOSER MOUNTED ON HIGHER SIDE	D 100-300 mm d1 ≤ 610mm (24 in.) d2 > 610mm (24 in.) 1.52 m (5 ft) max. min. = d 2 ONE DETECTOR MOUNTED ON HIGHER SIDE
OVER 610 mm (24 in.) ON BOTH SIDES	E d > 610mm (24 in.) DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	F 100-300 mm 1.52 m (5 ft) max. min. = d TWO DETECTORS REQUIRED
OVER 1524 mm (60 in.)	G MIGHT REQUIRE ADDITIONAL DETECTORS	

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913-491-1701 Overland Park, KS 66223

SITE: 801 Missouri Highway 150
Lee's Summit, Missouri 64082

TITLE: NFPA 72 Reference

SCALE AT:	DATE: 5-31-2023	DESIGNED BY:
PROJECT NO:	DRAWING NO: FA-5	REVISION:

NFPA 72 Device Reference