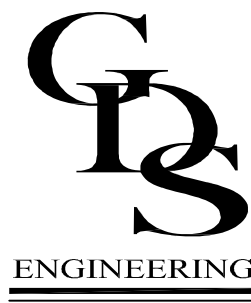




Progressive
Electronics inc.

6102 Arlington
Raytown, MO 64133
Phone: 816.765.5750
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Missouri State Certificate of Authority #000816
9201 E. 63rd STREET, SUITE 100
RAYTOWN, MISSOURI 64133

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LEE'S SUMMIT - MARKET PLAZA
GREEN STREET - 2ND STREET TO 3RD STREET
LEE'S SUMMIT, MO

FIRE ALARM SYSTEMS
NICET CERTIFIED LEVEL III
CERTIFICATION #134044

Job # 16762

Drawn By: RB

Checked By: CF

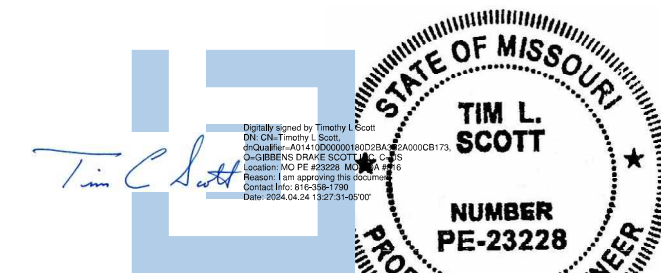
REVISION

#	DATE	DESCRIPTION
0	04/22/2024	Fire Alarm Layout
1		
2		
3		
5		

Sheet Title:
FIRE ALARM
COVER

Sheet Number:

FA000

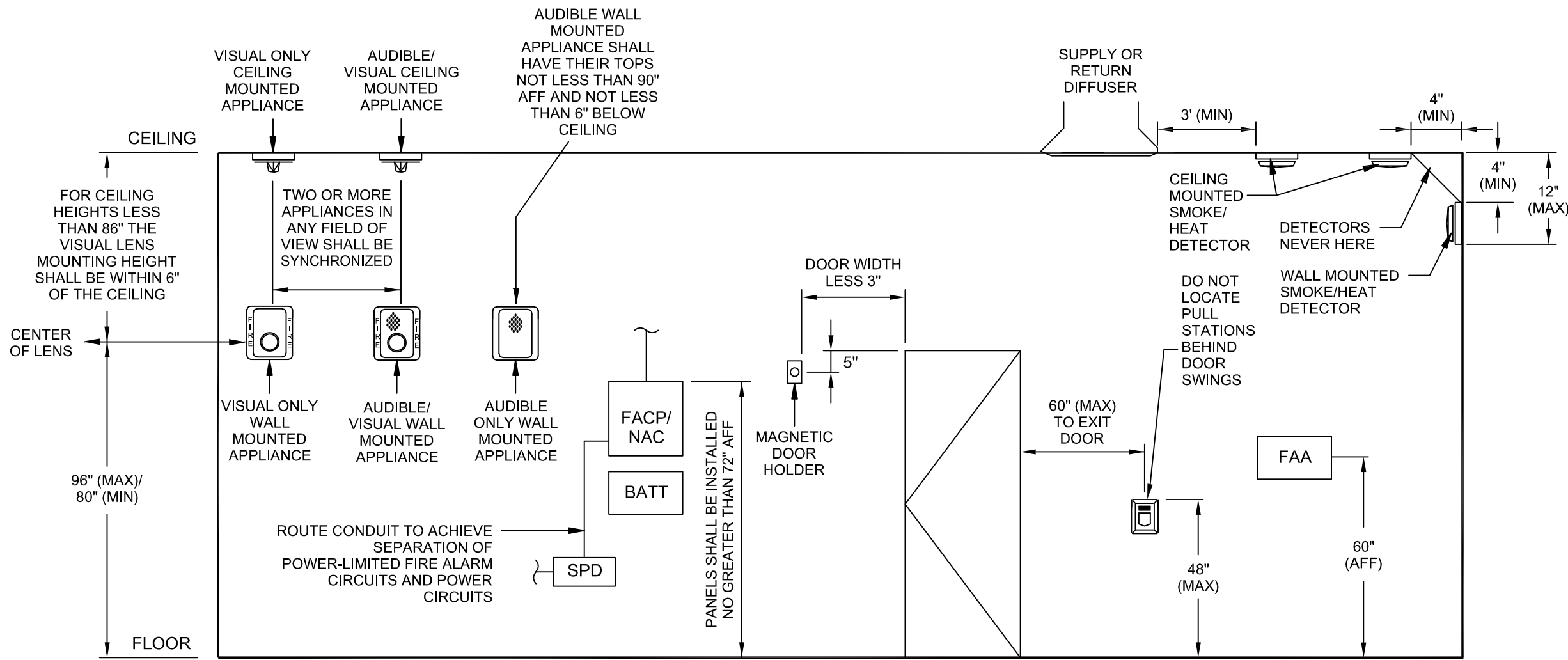


4-24-2024
TIM L. SCOTT
LICENSE # E-23228

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DRAWING INDEX

SHEET#	DESCRIPTION
FA000	FIRE ALARM COVER SHEET
FA100	FIRE ALARM FIRST FLOOR LAYOUT
FA200	FIRE ALARM RISER DIAGRAM & CALCS



FIRE ALARM MOUNTING HEIGHTS

SYSTEM INPUTS																	SYSTEM OUTPUTS																			
																	LOCAL FIRE ALARM & ANNUNCIATOR PANEL(S)					TRANSMIT SIGNAL TO MONITORING COMPANY					AUXILIARY FUNCTION					EVAC SIGNAL				
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X = PERFORM OPERATION/REPORT DEVICE STATUS

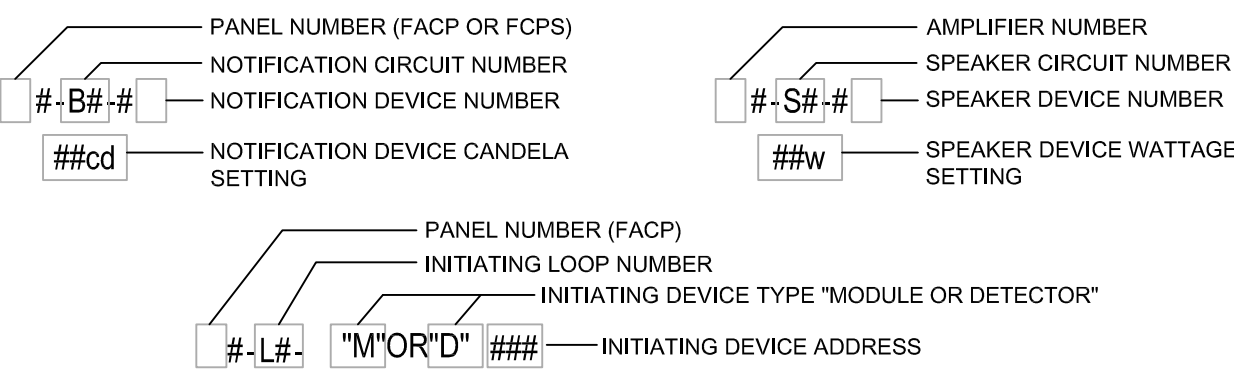
SEQUENCE OF OPERATIONS

DEVICE LEGEND					
SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION	MOUNTING
FACP	1	NOTIFIER	NFW-100X	FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR	SURFACE
	1	NOTIFIER	NFW-100X MAIN BOARD	FIRE ALARM CONTROL PANEL, MAIN BOARD	IN BOX
	1	NOTIFIER	PVRM024	NAC POWER EXPANDER	IN BOX
AMP	1	NOTIFIER	NFC-50100 (50W, 25V)	(PRIMARY OPERATING CONSOLE) 50 WATT, 25VRMS SINGLE SPEAKER ZONE EMERGENCY VOICE EVACUATION SYSTEM, INTEGRAL MICROPHONE, BUILT IN TONE GENERATOR AND 14 RECORDABLE MESSAGES.	
	1	NOTIFIER	NFC-50100 MAIN BOARD (50W, 25V)	MAIN BOARD FOR ECC-50100	
FAA	1	NOTIFIER	N-ANN-80	BLACK 80 CHARACTER CO ANNUNCIATOR	SURFACE
RTS	2	SYSTEM SENSOR	RTS151	REMOTE TEST STATION W/ SWITCH, ALARM & POWER LEADS	SERVICEABLE AREA
SP	1	NOTIFIER	FSP-951 W/BS00-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.	FLUSH
IP	1	NOTIFIER	NBG-12LX	ADDRESSABLE PULL STATION	FLUSH
SD	2	NOTIFIER	DNR WIFSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R	FLUSH
FRM	3	NOTIFIER	FRM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT	SURFACE
FRM	4	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS	SURFACE
SPCR	15	SYSTEM SENSOR	SPSCR	SPEAKER/STROBE CEILING MOUNT, RED	SURFACE
WP	1	SYSTEM SENSOR	P2RK	2-WIRE HORN/STROBE OUTDOOR, RED	SURFACE
SCRLD	7	SYSTEM SENSOR	SCRLD	STROBE, CEILING, RED	FLUSH
KX	1	GENERIC	GENERIC KNOX BOX	KNOX BOX WITH TAMPER SWITCH	
FS	1	GENERIC	WATERFLOW SWITCH 02	CONTACT DEVICE	PROVIDED BY OTHERS
TS	1	GENERIC	TAMPER SWITCH	TAMPER SWITCH	PROVIDED BY OTHERS

or - DENOTES CANDELA FOR FIRE ALARM DEVICES
WP - DENOTES WEATHERPROOF FOR FIRE ALARM DEVICES
EX - DENOTES EXISTING DEVICE TO REMAIN

CABLE AND WIRE LEGEND			
LABEL	PART NO	AWG	DESCRIPTION
ANN	6322UL	18	PLENUM-FPLP, 4-18 AWG, ANNUNCIATOR
B	6120UL	14	PLENUM-FPLP, 2-14 AWG, STROBE CIRCUIT
L	6320UL	18	PLENUM-FPLP, 2-18 AWG, SLC
S	6220FL	16	PLENUM-FPLP, 2-16 AWG, SHIELDED SPEAKER

DEVICE ADDRESS DETAIL



GENERAL NOTES

- MOUNTING HEIGHTS AND LOCATIONS: (OR PER NFPA72)
 - PULL STATION - 48" AFF.
 - STROBE, HORN, STROBE, SPEAKER, SPEAKER/STROBE - 80" AFF.
 - SMOKE DETECTORS - SHALL NOT BE LOCATED CLOSER THAN 3FT. FROM AN AIR SUPPLY DIFFUSER OR AN AIR RETURN VENT.
 - DUCT DETECTORS SHALL BE INSTALLED AS PER IBC 2018 AND APPROVED BY A.H.J.
- ALL CONDUIT SHALL BE A MIN. OF 3/4" UNLESS OTHERWISE SPECIFIED AND MAY NOT EXCEED 40% FILL AS PER N.E.C. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONDUIT AND ELECTRICAL BOXES AS WELL INSURE PROPER CONDUIT FILL.
- SPRINKLER DEVICES SHALL BE FURNISHED AND INSTALLED BY OTHERS AND MONITORED BY THE FIRE ALARM SYSTEM.
- SYSTEM DESIGNED AS PER MANUFACTURER'S RECOMMENDATIONS. ALL DEVICE LOCATIONS AND QUANTITIES SHALL BE CONFIRMED AT THE JOB SITE BY THE INSTALLING CONTRACTOR.
- SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY AND STATE STANDARDS, INCLUDING THE 2018 INTERNATIONAL BUILDING CODE, THE 2016 NFPA 72, 2017 NFPA 70(NEC) AND THE 2018 INTERNATIONAL FIRE CODE.
- ALL WIRING THAT ENTERS AND/OR LEAVES A SPACE SHALL HAVE PROPER SLEEVING AND FIRE CAULKING BY THE ELECTRICAL CONTRACTOR.
- INSTALLING CONTRACTOR TO FIELD VERIFY ALL DEVICE LOCATIONS FOR THE PURPOSE OF MEETING LOCAL AND NATIONAL CODES AS WELL AS MAINTAIN REQUIREMENTS FOR A FULLY FUNCTIONAL SYSTEM.
- ENSURE SMOKE DETECTORS ARE WITHIN 5'-0" OF FIRE DOORS.
- VERIFY DEVICE LOCATIONS DO NOT CONFLICT WITH MECHANICAL, ELECTRICAL OR OTHER EQUIPMENT.

SCOPE OF WORK

- BUILDING IS NEW
- BUILDING IS SPRINKLED
- INSTALLATION OF NEW FIRE ALARM SYSTEM

BUILDING CODE INFO

OCCUPANCY: A-3, B, S-2
CONSTRUCTION TYPE: II-B
BUILDING SQUARE FT: 14,405 FT²



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LEE'S SUMMIT- MARKET PLAZA
GREEN STREET- 2ND STREET TO 3RD STREET
LEE'S SUMMIT, MO

FIRE ALARM SYSTEMS
ICET CERTIFIED LEVEL III
CERTIFICATION #134044

b # 16762

Drawn By: RE

Checked By: CF

REVISION

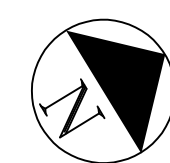
DATE	DESCRIPTION
04/22/2024	Fire Alarm Layout

Sheet Title:

FIRE ALARM LAYOUT

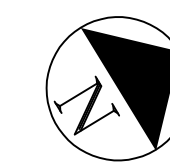
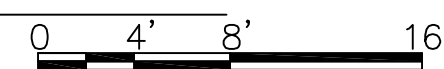
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A100



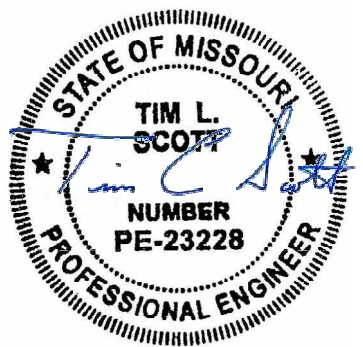
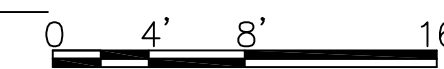
MAIN LEVEL FA LAYOUT

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



ROOF FA LAYOUT

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



4-24-2024
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VOLTAGE DROPS

BATTERY CALCS

BATTERY CALCS

