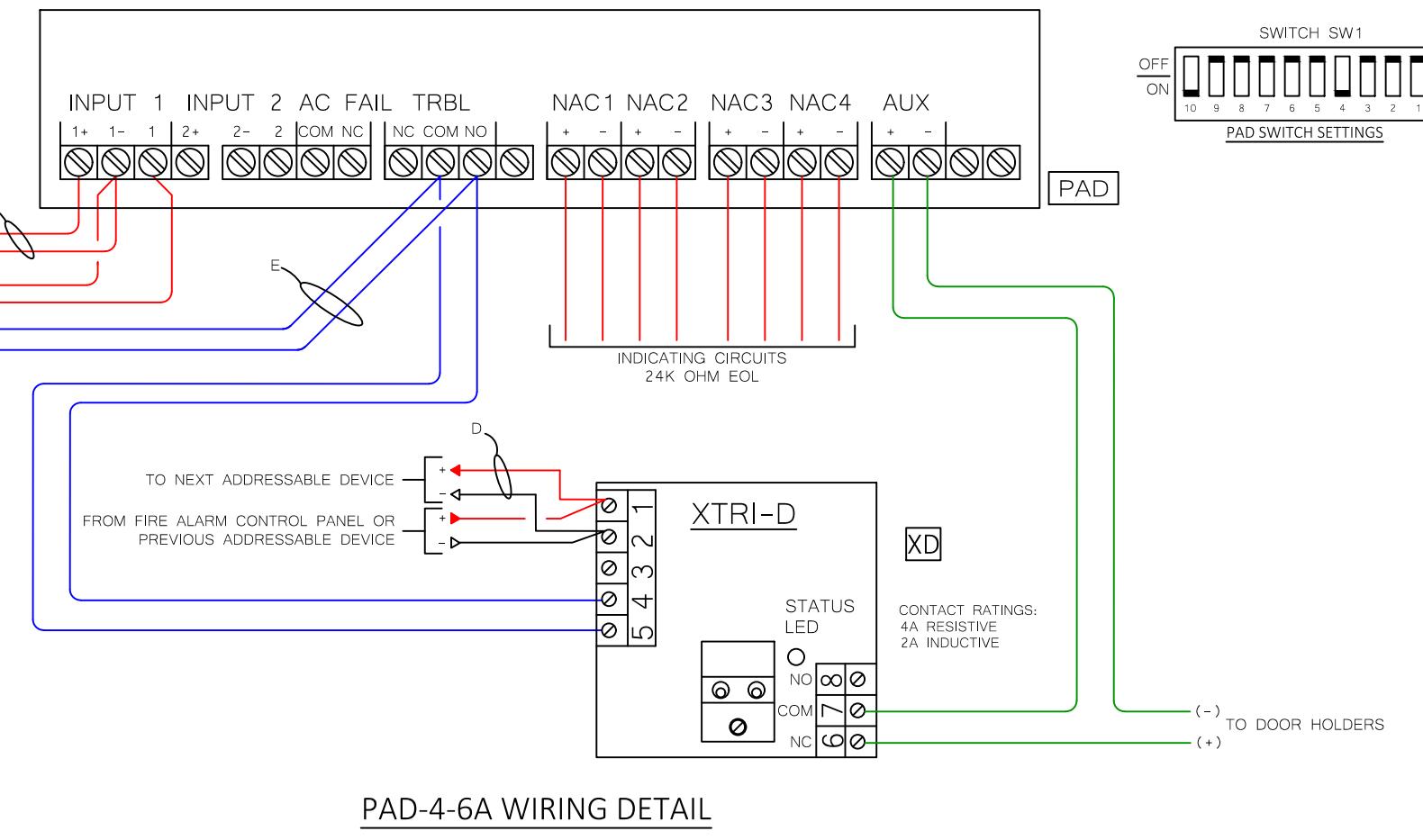


DEVICE LEGEND		MANUFACTURER	MODEL NUMBER	BACK BOX
[FACP]	FIRE ALARM CONTROL PANEL	SIEMENS	FC301-U3	FURNISHED WITH THRE1-U3 ENCLOSURE AND PHA02-U3 TRIM KIT.
[PAD]	NAC EXTENDER PANEL	SIEMENS	PAD-4-6A	SURFACE MOUNT ENCLOSURE, 120VAC POWER WITH GROUND REQUIRED BY ELECTRICAL.
[CAC]	CELLULAR ALARM COMMUNICATOR - DUAL PATH	SIEMENS	SLE-MAX2-CFB	SURFACE MOUNT ABOVE FACP.
[REC]	RECORDS CABINET	SPACE AGE	SSU00691	SURFACE MOUNT TO WALL.
[MS]	MANUAL STATION	VMS-D	4" SQUARE, 2-1/8" DEEP BOX WITH SINGLE GANG RING REQUIRED BY ELECTRICAL.	
[SD]	SMOKE DETECTOR	SIEMENS	OP5109-11	SINGLE GANG OR 4" OCTAGON BOX REQUIRED BY ELECTRICAL. 4" SQUARE BOX CAN BE USED IF NOT PROGRAMMED TO HANG ON HORIZONTAL ANGLE MOUNTS TO SIDE OF DUCTWORK. DUCT MOUNTS ARE LOW-VARIA FROM FILTERS AND BELOW ROOF LEVEL WHEN MOUNTED ON A ROOFTOP AHU.
[DR]	DUCT SMOKE DETECTOR	SIEMENS	FD0492/OP5221	ST-50
[KS]	INTELLIGENT REMOTE TEST KEYSWITCH	SIEMENS	TSM-1X	SINGLE GANG 3-1/2" DEEP BOX REQUIRED BY ELECTRICAL.
[XD]	DUAL INPUT MODULE	SIEMENS	XTRI-D	4" SQUARE OR 2 GANG, 2-1/8" DEEP BOX REQUIRED BY ELECTRICAL.
[XR]	RELAY WITH INPUT MODULE	SIEMENS	XTRI-R	4" SQUARE OR 2 GANG, 2-1/8" DEEP BOX REQUIRED BY ELECTRICAL.
[EX]	EXISTING EQUIPMENT	SIEMENS	XTRI-E	EXISTING EQUIPMENT.
[HW]	STROBE - WALL	SIEMENS	EXISTING U-MCS	EXISTING HORN/STROBE - WALL.
[WH]	HORN/STROBE - WALL - WEATHERPROOF	SIEMENS	EXISTING HORN-S17	WEATHERPROOF HORN/STROBE - WALL.
[HN]	HORN/STROBE - WALL - WEATHERPROOF	SIEMENS	EXISTING HORN-S17	WEATHERPROOF HORN/STROBE - WALL.
[D]	INDICATING DEVICE SUBSCRIPTS			1-001 - SUB ADDRESS F1/F2 - CIRCUIT NO./SPKR CCT NO. E - EXISTING I - INDICATED R - RELOCATED W - WEATHERPROOF WU - WEATHERPROOF D - DEMO DEVICE
[C]	INDICATING DEVICE SUBSCRIPTS			F1/F2 - STROBE CCT NO./SPKR CCT NO. E - EXISTING I - INDICATED R - RELOCATED W - WEATHERPROOF WU - WEATHERPROOF D - DEMO DEVICE



**RELEASED FOR CONSTRUCTION**  
As Noted on Plan Review

Lee's Summit Fire Department  
Lee's Summit, Missouri

11/24/2025

CABLE STRIPPING DETAIL

CABLE LEGEND (PLENUM)			
CABLE LETTER	CABLE DESCRIPTION	CABLE TYPE	Q.D. INCH
D	ADDRESSABLE DATA LINE	1802PFA-RED 2 cond/18 AWG	.020
F	INDICATING CCT	1402PFA-RED 2 cond/14 AWG	.033
G	PAD ACTIVATION	1802PFA-RED-YLN 2 cond/18 AWG	.020
V	POWER CCT	1402PFA-RED-BLK 2 cond/14 AWG	.033
X	TELEPHONE	4 pair/24 AWG	

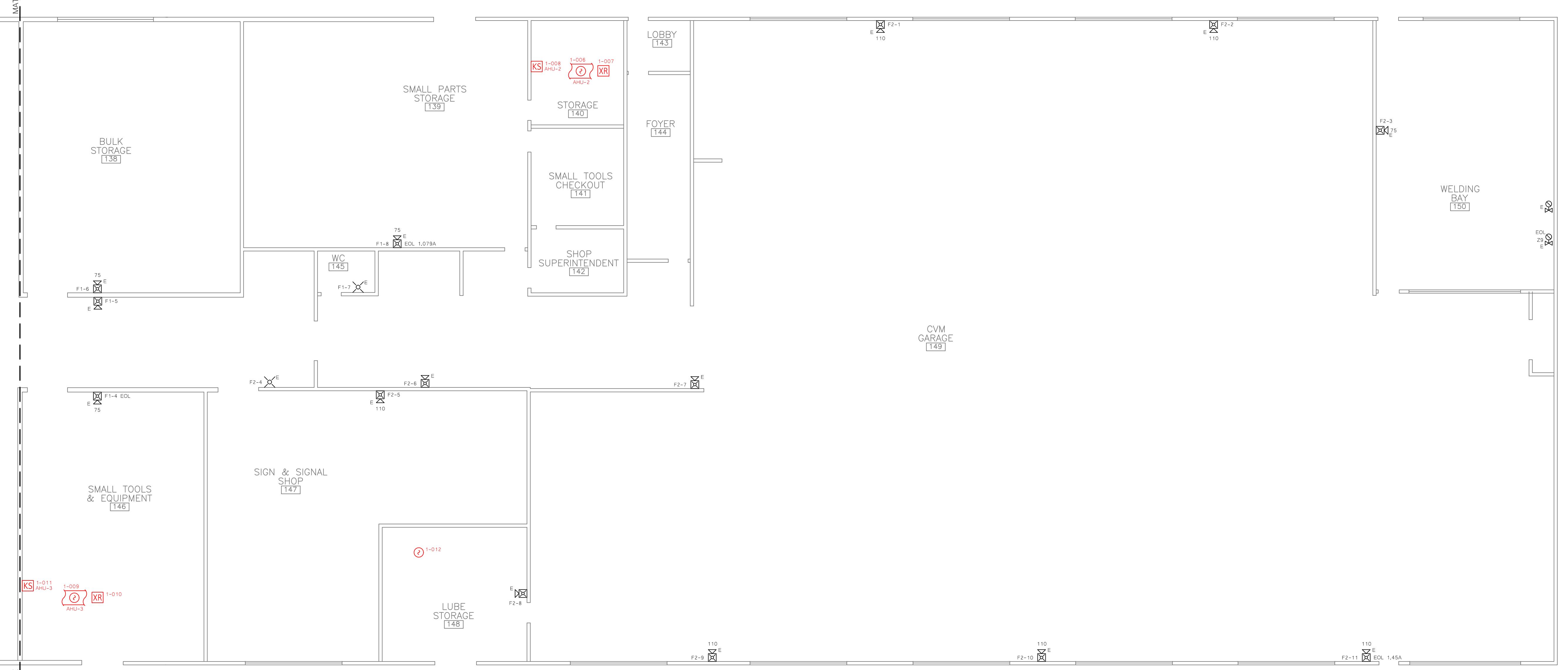
OHMMETER TESTS

- MEASURE ALL CIRCUITS AS APPLICABLE FOR PROPER EOL RESISTOR.
- MEASURE ALL CONDUCTORS INCLUDING SHIELDS, FOR GROUND FAULTS.
- MEASURE BETWEEN ALL CONDUCTORS INCLUDING SHIELDS, FOR SHORT CIRCUITS.
- REPAIR ALL OPEN CIRCUITS, SHORT CIRCUITS AND GROUND FAULTS AS NEEDED.

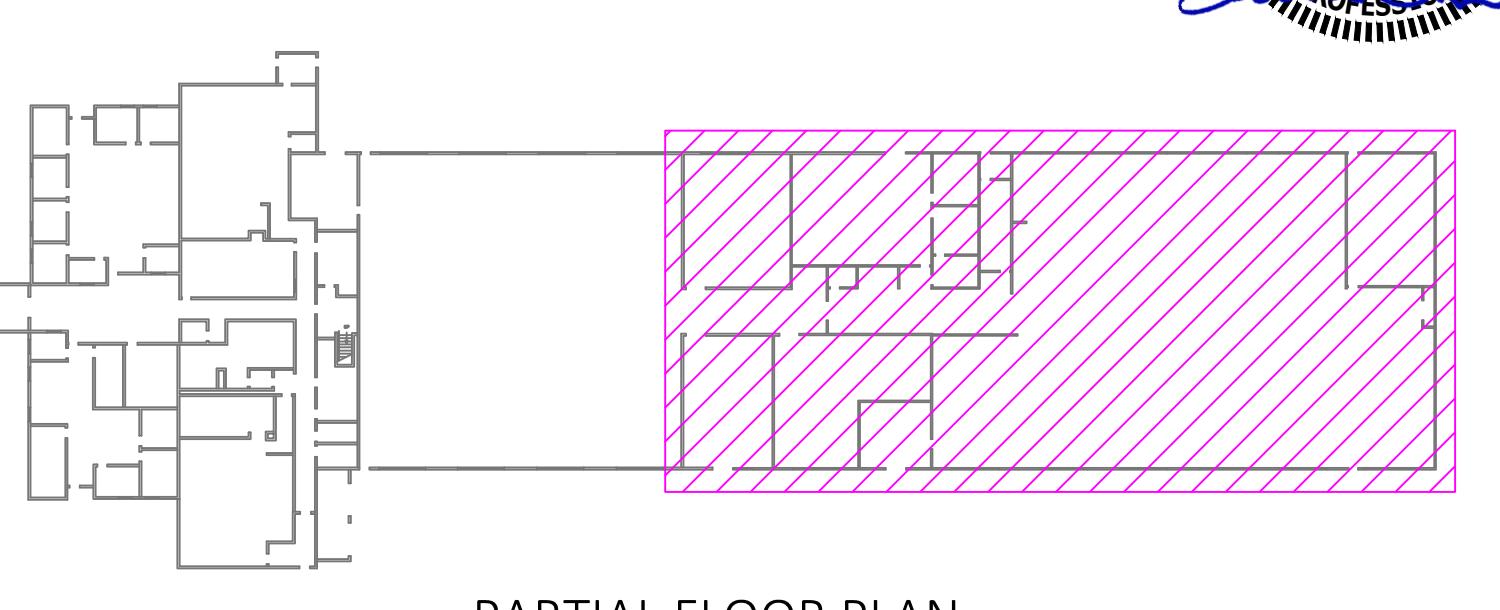
GENERAL FIRE ALARM NOTES

- INSTALL ADDRESSABLE DEVICES PER ADDRESS. VERIFY DEVICE IS PROGRAMMED BEFORE INSTALLATION.
- CONDUT 3/4" MINIMUM UNLESS SHOWN OTHERWISE.
- MOUNT FIRE ALARM CABINET 6' AFF TO THE TOP OF THE CABINET.
- MANUAL FIRE ALARM STATIONS SHALL BE MOUNTED AT 48" AFF TO THE OPERABLE PART.
- LOCATE DETECTORS NOT CLOSER THAN 3' 0" FROM AN AIR SUPPLY DIFFUSER, RETURN AIR OPENING, SPRINKLER HEAD OR CEILING FAN.
- DUCT DETECTORS NOT CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
- DUCT DETECTOR REMOTE TEST SWITCHES ARE TO BE INSTALLED AS CLOSE TO THE ASSOCIATED DEVICE AS POSSIBLE IN AN ACCESSIBLE LOCATION, DEPENDABLE AND OWNER.
- LABEL ALL DUCT DETECTORS AND DUCT DETECTOR REMOTE TEST SWITCHES WITH THE ASSOCIATED MECHANICAL ITEMS NAME.
- IN AREAS WITH EXPOSED DUCTWORK, ETC. PENDANT MOUNT THE CEILING NOTIFICATION DEVICES SO THAT THEY CAN BE VIEWED WITHOUT OBSTRUCTION.
- DO NOT EXCEED RELAY CONTACT RATINGS.
- FIRE/SMOKE DAMPER DUCT DETECTORS ARE TO BE INSTALLED IN THE DUCT WITHIN 5'-0" OF THE DAMPER WITH NO AIR OUTLETS OR INLETS.
- WIRING TERMINATIONS FOR CONNECTIONS BETWEEN THE FIRE ALARM SYSTEM AND EQUIPMENT INSTALLED BY OTHER CONTRACTORS (SUCH AS ELEVATORS, HVAC, FIRE SUPPRESSION, AND DOOR CONTROL EQUIPMENT) ARE TO BE MADE BY THAT SYSTEM'S CONTRACTOR.
- WHERE A REQUIRED FIRE ALARM SYSTEM IS OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24 HOUR PERIOD, THE AHU SHALL BE NOTIFIED, AND THE BUILDING SHALL BE EVACUATED OR AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL PARTIES LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE ALARM SYSTEM HAS BEEN RETURNED TO SERVICE.
- THE BRANCH CIRCUIT CARRYING THE FIRE ALARM EQUIPMENT SHALL SUPPLY NO OTHER CIRCUITS. THE LOCATION OF THE BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE RED IDENTIFICATION. THE RED IDENTIFICATION SHALL NOT DAMAGE THE OVERCURRENT PROTECTIVE DEVICES OR OBSCURE THE MANUFACTURER'S MARKINGS. THE BRANCH CIRCUIT SHALL NOT BE SUPPLIED THROUGH GROUND-FAULT CIRCUIT INTERRUPTERS OR ARC-FAULT CIRCUIT INTERRUPTERS.

WATERLINE



PARTIAL FLOOR PLAN



PARTIAL FLOOR PLAN

Project Name: CITY OF LEE'S SUMMIT - MAINTENANCE BUILDING  
5720 Reeder Shawnee, KS 66203 (913)362-1772

Scale: 1/8"=1'-0" Date: 09/19/2025  
Drawn By: RC Sales: SEL  
Engr: ZH Prog: N/A  
PM: BM PC: BP  
Revisions:

11/4/2025  
DARIN T. SEIDEL  
STATE OF MISSOURI  
NUMBER: RE-200903  
FIRE ALARM

103479  
Sheet Number FA-1

LICENSERS  
HEADERS  
402-341-5274  
800-365-5320  
DESIGN@ECCON.COM

OMAHA  
402-341-7780  
800-354-5194  
WICHITA  
800-799-8788  
800-799-8786

SPRINGFIELD  
800-356-5241  
877-452-3892

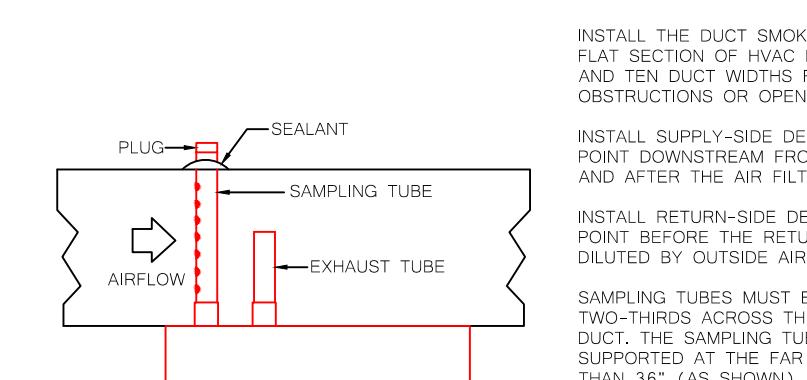
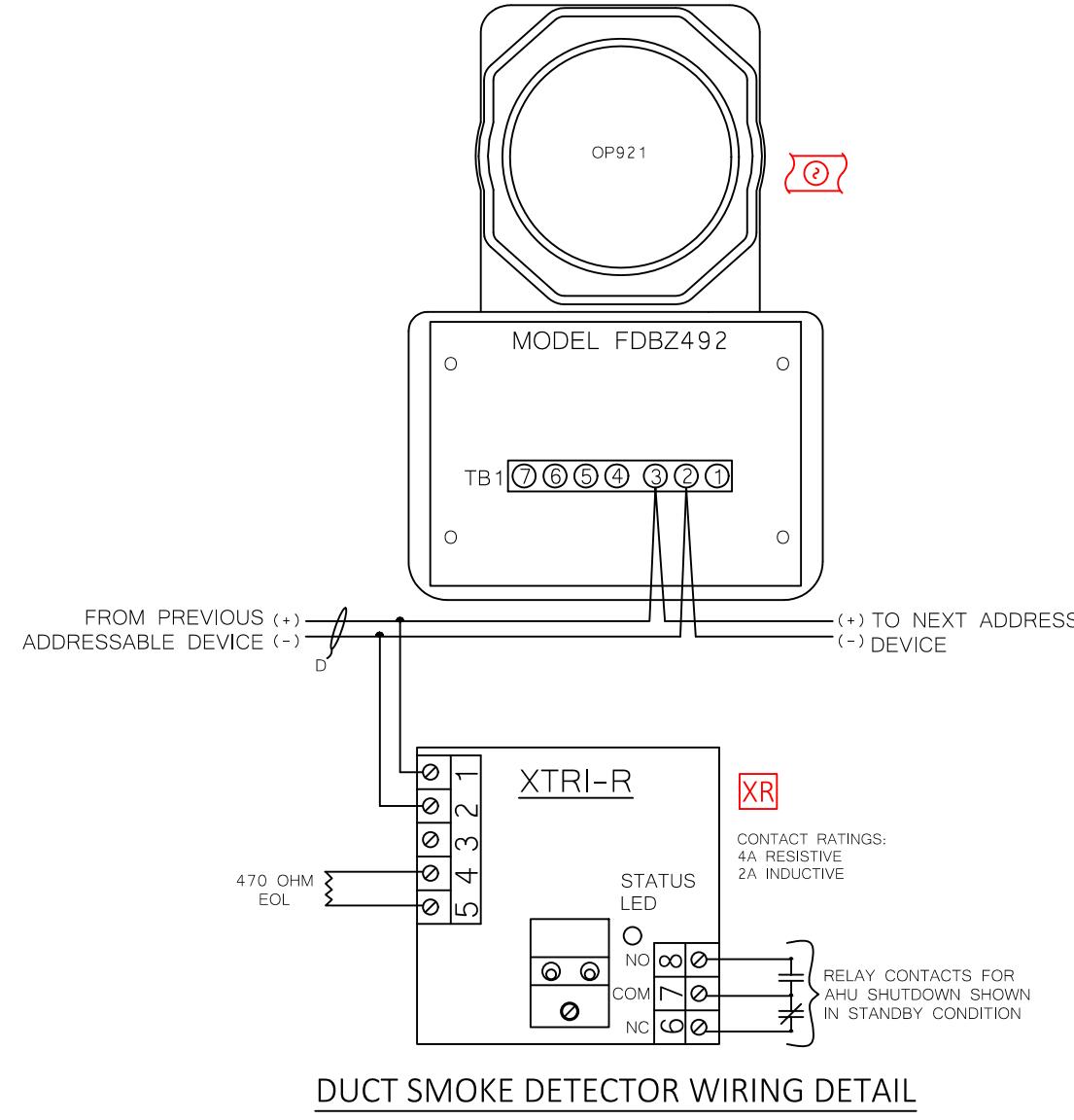


WE INTEGRATORS [ECCON.COM](http://ECCON.COM)

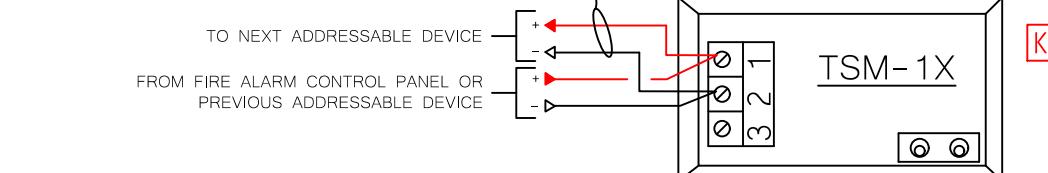
LEE'S SUMMIT, MISSOURI

1971 SOUTHEAST HAMBLIN ROAD

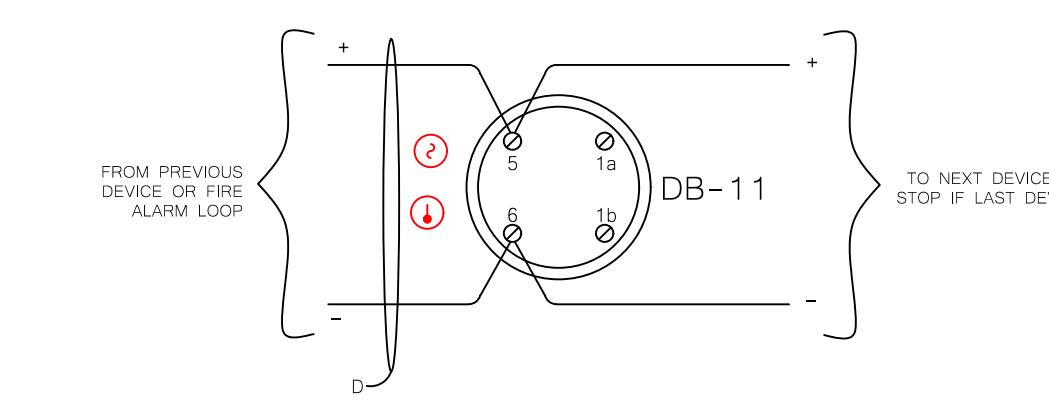
Area: PARTIAL FLOOR PLAN



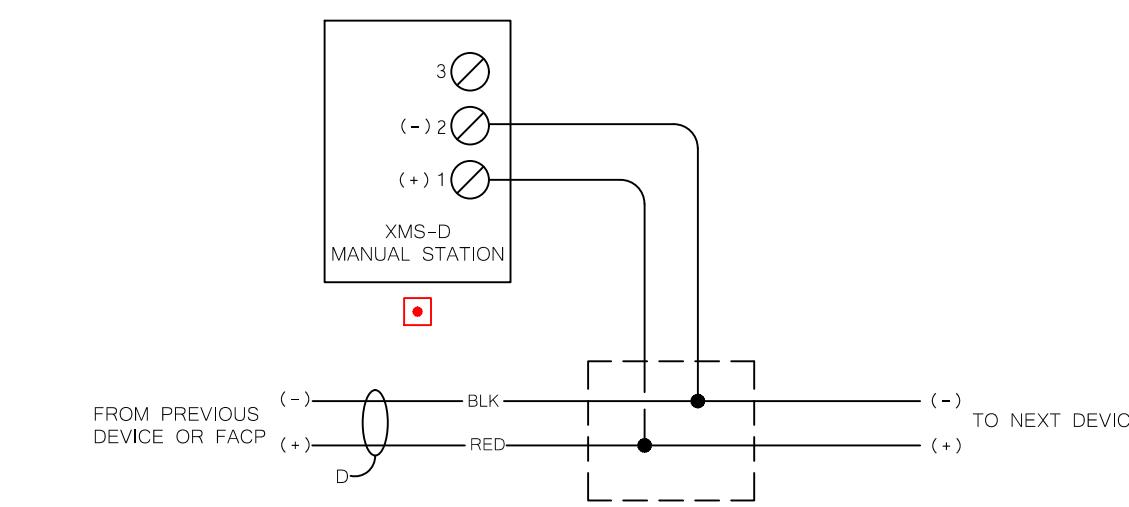
## DUCT SMOKE DETECTOR MOUNTING DET



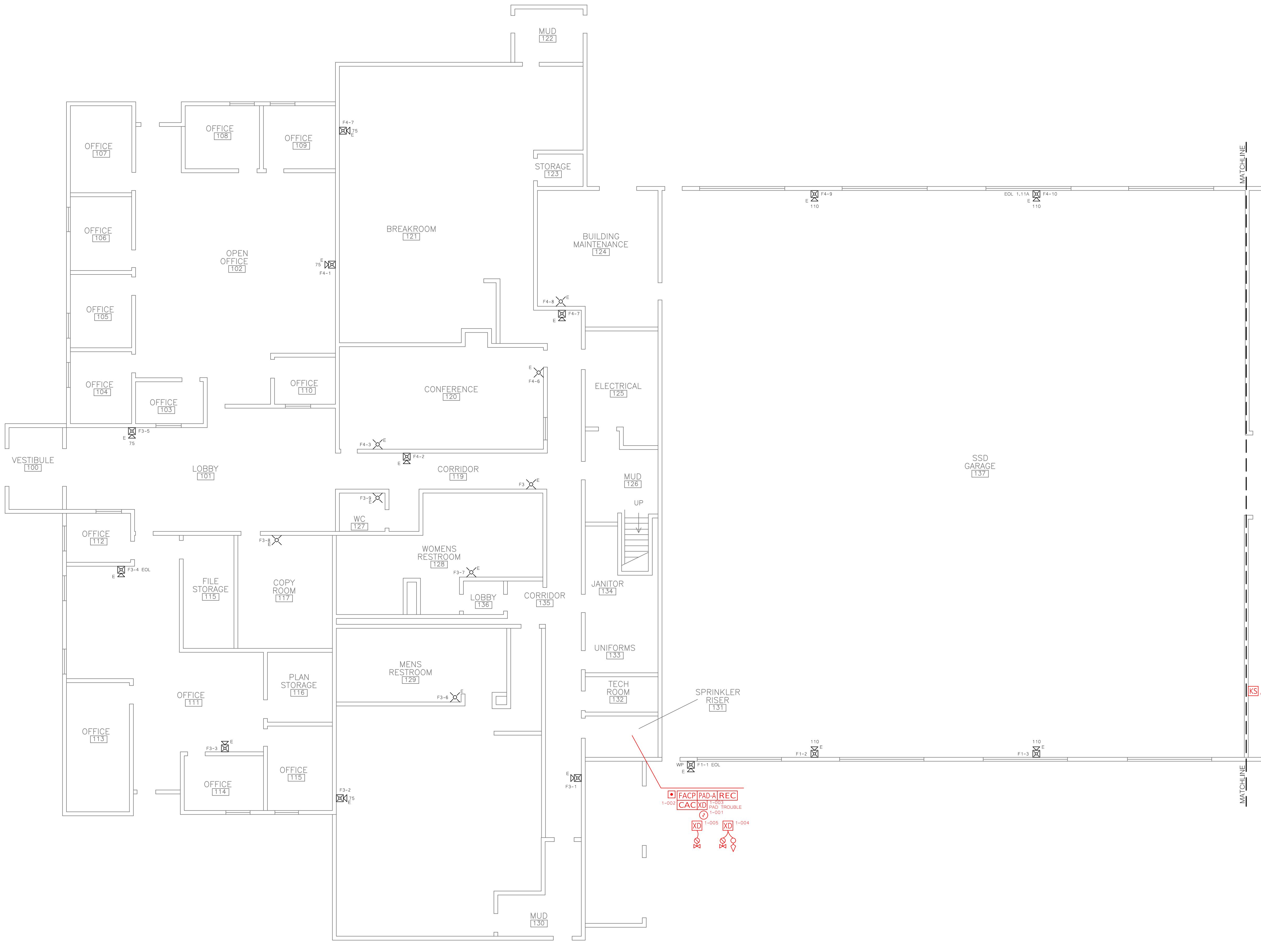
## TSM-1X WIRING DATA



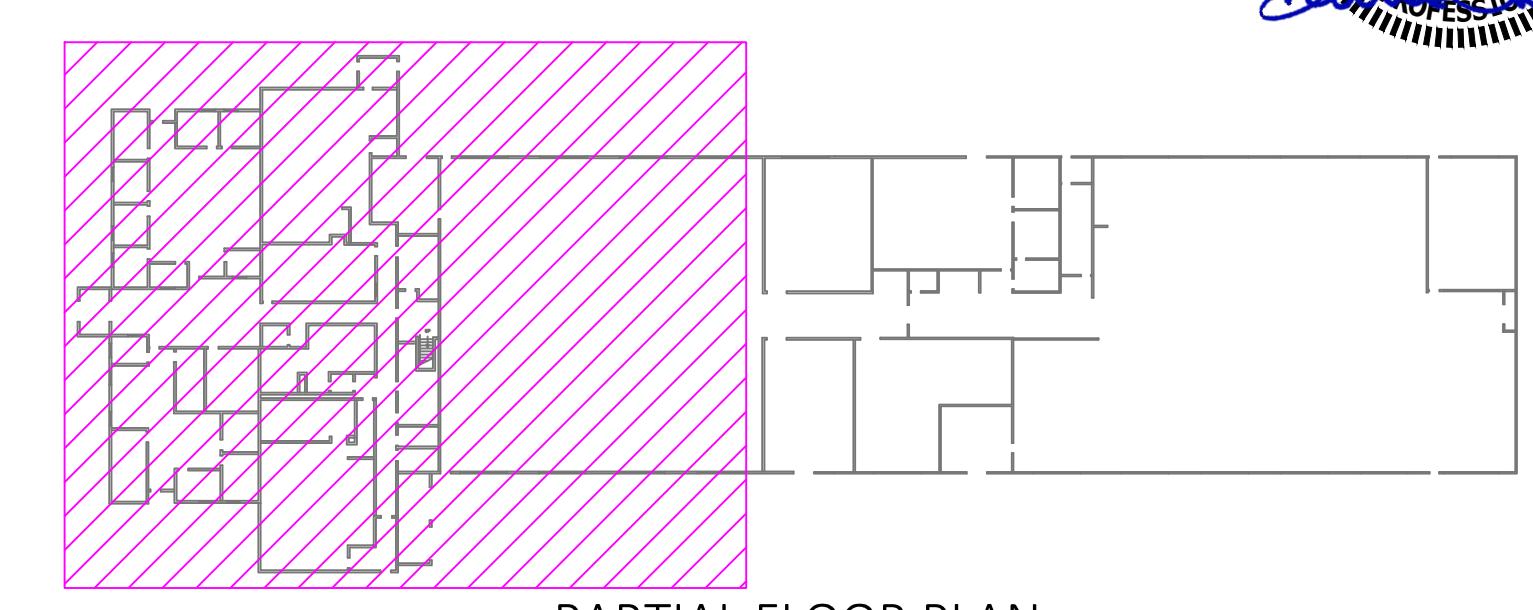
## SMOKE & HEAT DETECTOR WIRING DETAIL



## ADDRESSABLE MANUAL STATION WIRING DETAILS



## PARTIAL FLOOR PLA



## PARTIAL FLOOR PLAN

# BUILDING IEEE'S SUMMIT MISSOURI

IEEE'S SUMMIT  
ON  
BUILDING  
TECHNOLOGY

# CITY OF LEE'S SUMMIT

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1071 SOUTH EAST LAMBLIN ROAD

10

ale: 1/8  
te: 09/  
awn By: F  
les: SEL  
g By: ZH  
oq By: N  
M: BM

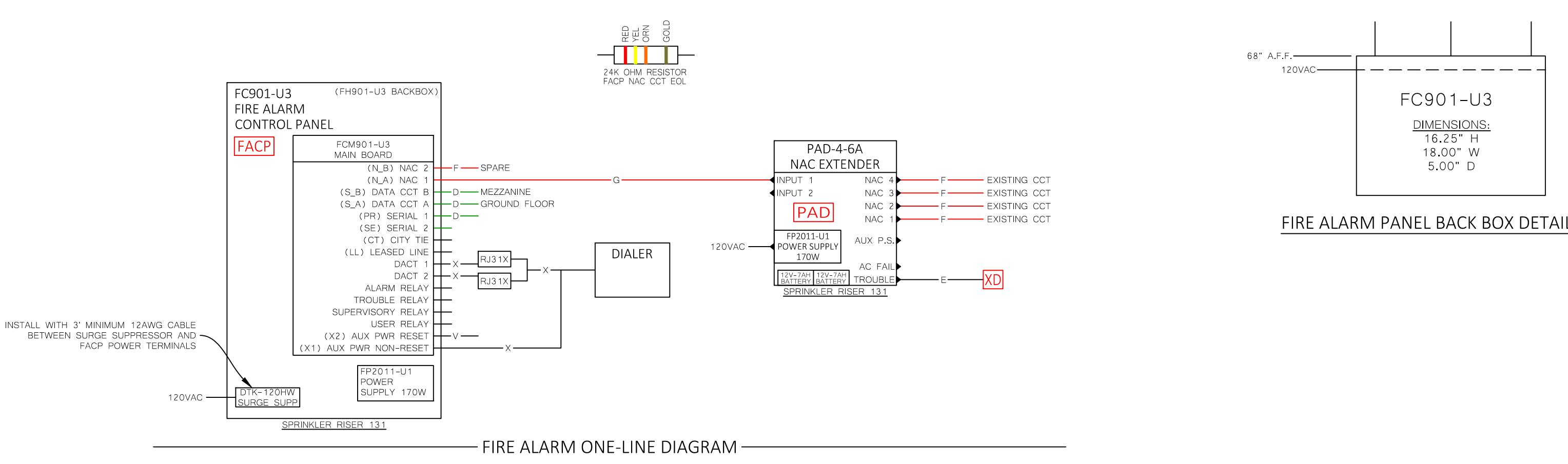
— Rev

111

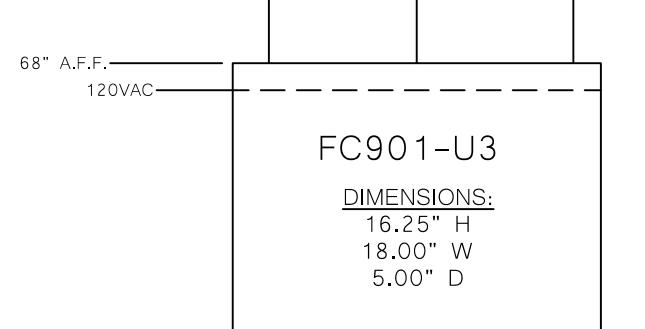
object #

Street Number

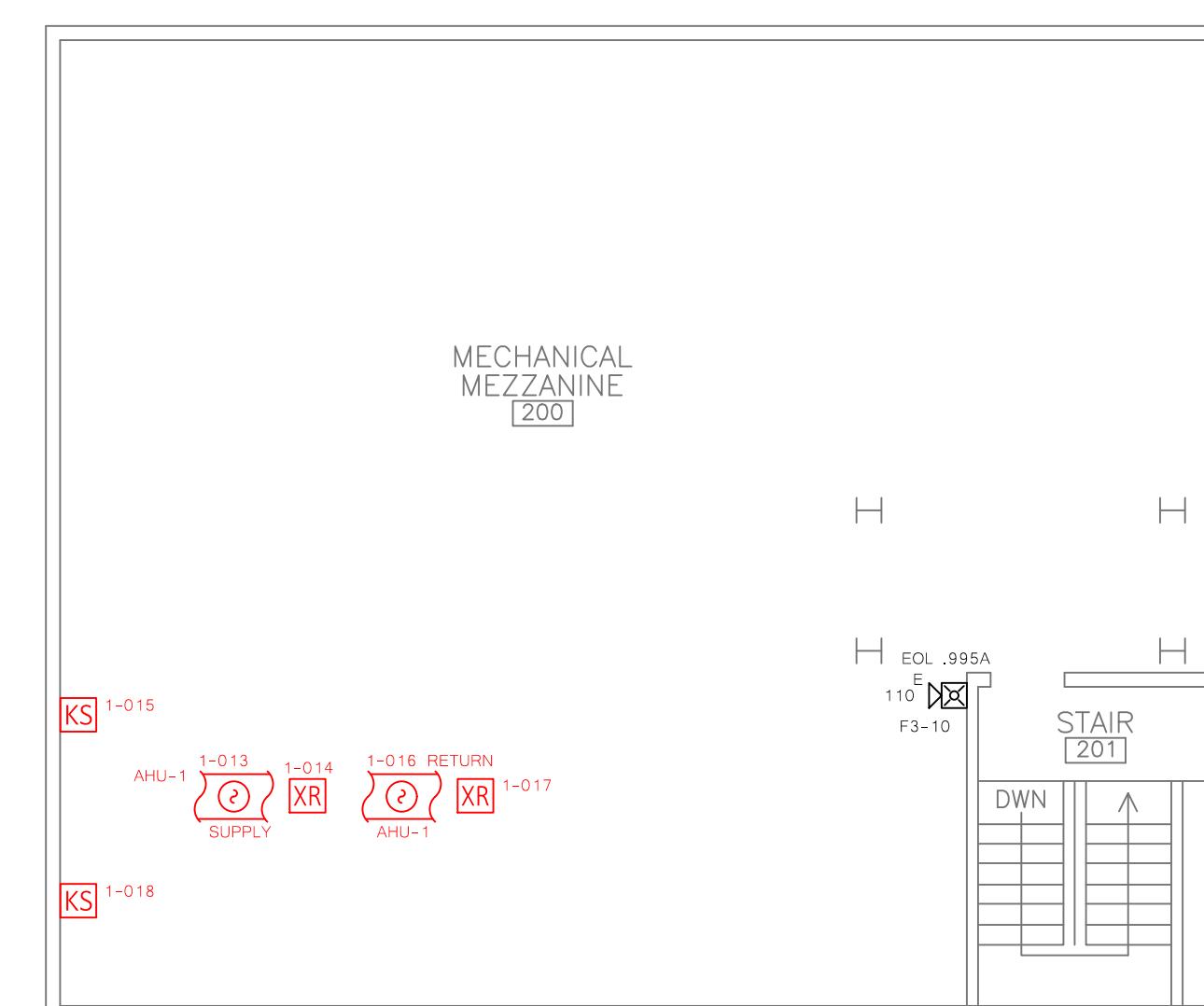
Object # 103479  
Sheet Number  
**FA-2**



FIRE ALARM PANEL BACK BOX DETAIL



FC901 Battery Calculations Worksheet		Float Field	Enter Numbers Here
		Calculated Field	Change & Value
ver.	2.2.0		
9/3/2020			
Ref. No	103479		
Submitted By	ECC		
FC901 Panel		Standby (A)	Alarm (A)
Main Board	0.159	0.1864	
Device Current Draw	0.0101	0.0101	
NAC 1	0	0.01	
NAC 2	0	0	
Aux power (external)	0.48	0	
FCA City Tie	No		
FSD901 Remote Annun.	1	0.08	0.07
Devices	Qty		
HFP-111 / 8712	0	0	
HFP-111 / 8710	0	0	
HFP-111 / 8712	0	0	
OOH941	4	0.003	0.003
OOH941	0	0	
OH921	0	0	
OPS21	2	0.0006	0.0006
HS921	0	0	
FDC0422	0	0	
HMS / 8700-S/D/M	0	0	
HTR-S/N / 8701/8702	0	0	
HTR-D / 8703	0	0	
HTR-R / 8704	0	0	
H2M / 8705	0	0	
HCP / 8706	0	0	
ILED / 8726	0	0	
ABHW-45 (High dBA)	0	0	
ABHW-45 (Low dBA)	0	0	
ABHW-48 (High dBA)	0	0	
ABHW-48 (Low dBA)	0	0	
XTR-S/M	0	0	
XTR-I-D	4	0.002	0.002
XTR-R	4	0.002	0.002
TSM-IX	4	0.002	0.002
ILED-X/CXW	0	0	
XMS-S, D, M	1	0.0005	0.0005
PAD-5-MB	0	0	
PAD-5-CLSA	0	0	
PAD-5-CDC	0	0	
Total	19	0.0101	0.0101
			System OK
Total Current	0.6992	0.2198	
Standby Time	14.421		
Alarm Time	0.054		
AH required (no reserve)	15.815		
Battery Reserve	0.005		
AH Required (with reserve)	17.462445		Need Battery Box
Battery Provided	8	AH	



MEZZANINE PLAN

## CITY OF LEE'S SUMMIT - MAINTENANCE BUILDING

LEE'S SUMMIT, MISSOURI

5720 Rucker Shawnee, KS 66203 (913)922-1772

BC ENGINEERS INCORPORATED

5720 Rucker Shawnee, KS 66203

HEAD OFFICE  
601-166-5274  
DESIGN@ECCON.COM

402-456-5230

816-561-6300  
636-356-2541SPRINGFIELD  
877-452-3982

877-452-3982



WE'RE INTEGRATORS

ECCON.COM

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

Date: 09/19/2025

Drawn By: RC

Sales: SEL

Engr By: ZH

Prod By: N/A

PM: BM PC: BP

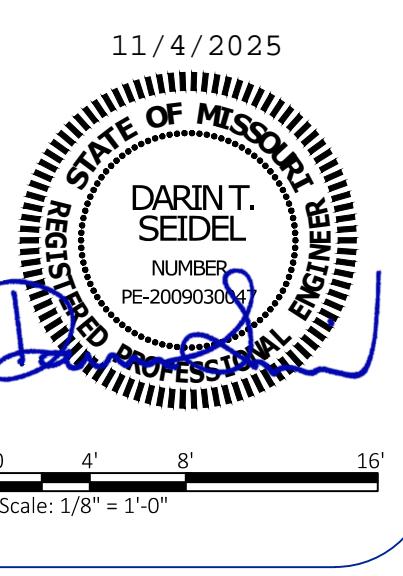
Revisions

11/4/2025  
DARIN T. SEIDEL  
NUMBER: PE-20090300  
STATE OF MISSOURI  
PRACTICING ENGINEER

Project #: 103479

Sheet Number

FA-3

Scale: 1/8"=1'-0"  
0 4' 8' 16'Sheet Number  
FA-3