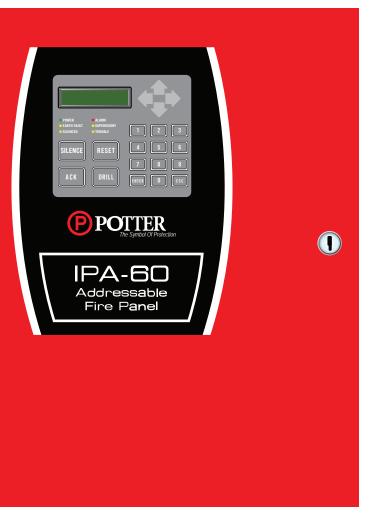
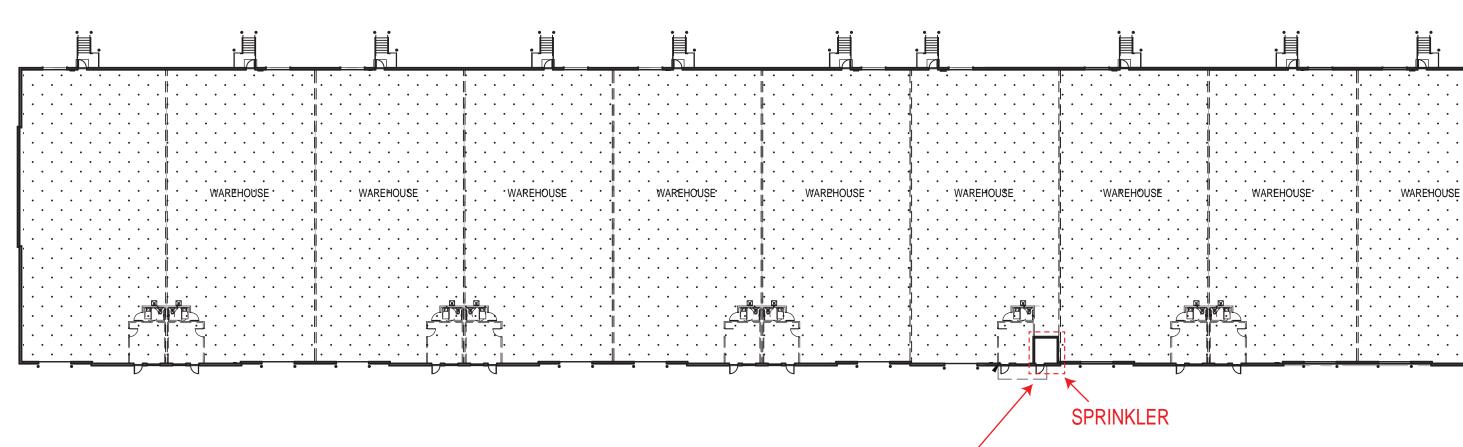
		akewood Business Center		Standby Hours: 2	
The Symbol of Prote	ction			Alarm Mins: 5	
4- <i>60</i>	Installed By: F	ire Alarm Solutions		Efficiency Factor: 2	.0%
ttery & Voltage Drop	Designed By: F	ire Alarm Solutions		SLC Type: C	lass B
lculations	Date: 3	/03/2025	N	IAC Source Voltage: 2	4
Mod	lel #: IPA-60		Max Pa	nel Current (amps): 5	
Pane	el ID:	Use	r assumes all responsibi	lity to ensure the quant	ities and current dra
Loca	tion: Sprinkler Room	valu	ies in this worksheet are	accurate prior to subm	ittal.
Addressable Fire		Standby (amps)			(amps) T
Part # IPA-60	Description Analog Addressable FACP	Each 0.130	Total 0.130	Each 0.220	0.
		Panel Standby:	0.130	Panel Alarm:	0.
P-LINK (RS-48	35)	Standby		Ala	arm
UD-2000 / UD-1000	DACT Card	0.016	0.016	0.023	0.
RA-6075/R	LCD Annunciator	0.020		0.025	
RA-6500 (R/F)	Flush Mount LCD Annunciator	0.020		0.050	
LED-16 (F)	Flush Mount LED Annunciator	0.025		0.025	
LED-16 (F)*	LED Annunciator LED Power*	0.015		0.210	
CA-6075 PSN-1000(E)	Class A Module Power Expander	0.012 0.015		0.044 0.015	
PAD100-SLCE-127	SLC Expander	0.013		0.060	
NOHMI-SLCE-127**	SLC Expander	0.060		0.060	
IDC-6	Initating Zone Expander	0.020		0.020	
IDC-6	Initating Zone Expander Power*	0.030		0.270	
RLY-5	Relay Expander	0.025		0.035	
RLY-5	Relay Expander Power*	0.010		0.135	
DRV-50	LED Driver Module	0.025		0.025	
DRV-50 ECB-1000	LED Driver Module LED Power*	0.010 0.025		0.215	
FCB-1000 FIB-1000	Fire Communications Bridge Fiber Interface Board	0.025		0.025 0.030	
MC-1000	Fiber Interface Board Multi-Connect Expander	0.030		0.030	
SPG-1000	Serial Parallel Gateway	0.040		0.040	
NCE-1000	Network Card Ethernet	0.050		0.050	
NCF-1000	Network Card Fiber	0.095		0.095	
QUIRED IF USING NOHMI PROT			.	p	
mum current draw on P-Link lim enter quantity if PLINK power	ited to 1 Amp) is being used to power devices	P-LINK Standby:	0.016	P-LINK Alarm:	0.
SLC Devices		Standby		Ala	arm
	AFC / ARC / IPA	Series - PAD100/200			
PAD-PD	Analog Photo Smoke	0.000300	0.000300	0.000300	0.000
PAD-PHD	Analog Photo Smoke/Heat	0.000300		0.000300	
PAD-HD	Analog Fixed Temp Heat	0.000300		0.000300	
PAD-CD PAD-PCD	Analog Carbon Monoxide Detector	0.000300 0.000300		0.000300	
PAD-PCD PAD-PHCD	Analog Smoke/Carbon Monoxide Detector Analog Smoke/Heat/Carbon Detector	0.000300		0.000300 0.000300	
PAD100-DRTS	Duct Remote Test Switch	0.010000		0.015000	
PAD-DUCT	Addressable Duct Detector	0.000300		0.000300	
PAD-DUCTR*	Addressable Duct Detector w/Relay	0.000500		0.000500	
PAD100-PSSA/PSDA	Addressable Pull Station Single/Dual Action	0.000200	0.000200	0.000200	0.000
PAD100-MIM PAD100-SIM	Micro Input Module Single Input Module	0.000200 0.000240		0.000200 0.000240	
PAD100-DIM	Dual Input Module	0.000240	0.000720	0.000240	0.000
PAD100-RM	Relay Module	0.000240		0.000240	
PAD100-OROI	One Relay One Input Module	0.000240		0.000240	
PAD100-TRTI	Two Relay Two Input Module	0.000240		0.000240	
PAD100-ZM* PAD100-NAC*	Conventional Zone Module Notification Appliance Circuit	0.000240 0.000200		0.000240 0.000200	
PAD100-NAC	Speaker Module	0.000200		0.000200	
PAD100-IM	Isolator Module	0.000150		0.000150	
PAD100-LED	LED Module	0.000240		0.000240	
PAD100-LEDK	Addressable LED w/ Key Switch	0.000200		0.000200	
PAD100-SB*** PAD100-LFSB***	Addressable Sounder Base Addressable Low Frequency Sounder Base	0.000200 0.000200		0.000200 0.000200	
PAD100-LF3B PAD100-RB*	Addressable Low Frequency Sounder Base Addressable Relay Base	0.000200		0.000200	
PAD100-IB	Addressable Isolator Base	0.000150		0.000150	
	SLC Loop Alarm LED Current	0.000000	0.000000	0.036000	0.036
Requires Aux Power (Configure See the installation manual for	Below) special considerations when installing IM, IB, AIB, SCI devices	SLC Standby:	0.001220	SLC Alarm:	0.037
on Class B loops.					
Requires Aux Sounder Base Pour ircuits (See NAC Configuration			Standby (amps)		Alarm (amps)
Use	Description		Total		Total
Notification Notification			0.00000 0.00000		0.11 0.00
		NAC Standby:	0.00000	NAC Alarm:	0.11
rcuits (See I/O Configuration be			Standby (amps)		Alarm (amps)
Use	Description		Total 0.00000		Total 0.00
			0.00000		0.00
		I/O Standby:	0.00000	I/O Alarm:	0.00
Battery Calculation Summary			Standby (amps)		Alarm (amps)
		Panel Current:	0.13000	_	0.22
		P-Link Current: SLC Device Current:	0.01600 0.00122		0.02
		NAC Circuit Current:	0.00122		0.03
					0.00
		I/O Circuit Current:	0.00000		0.39
SLC Loop T	ype: Class B		0.00000 0.147220	Total Alarm:	0.05
Device Addresses U	Jsed: 5	I/O Circuit Current: Total Standby: Standby Hours:	0.147220 24	Alarm Mins:	
	Jsed: 5	I/O Circuit Current: Total Standby: Standby Hours: AH Required:	0.147220 24 3.54	Alarm Mins: AH Required:	C
Device Addresses U	Jsed: 5	I/O Circuit Current: Total Standby: Standby Hours: AH Required:	0.147220 24	Alarm Mins: AH Required: mpHours Required:	(
Device Addresses U	Jsed: 5	I/O Circuit Current: Total Standby: Standby Hours: AH Required:	0.147220 24 3.54 ned Standby & Alarm A	Alarm Mins: AH Required:	(
Device Addresses U	Jsed: 5	I/O Circuit Current: Total Standby: Standby Hours: AH Required:	0.147220 24 3.54 ned Standby & Alarm A Required	Alarm Mins: AH Required: mpHours Required: Efficiency Factor:	(: : :
Device Addresses U Device Addresses Avail	Jsed: <mark>5</mark> able: 50	I/O Circuit Current: Total Standby: Standby Hours: AH Required:	0.147220 24 3.54 ned Standby & Alarm A Required	Alarm Mins: AH Required: mpHours Required: Efficiency Factor: Battery AmpHours:	(: : :
Device Addresses U Device Addresses Avail	Used: 5 able: 50 Drop MAX Circuit Current (amps):	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combin	0.147220 24 3.54 ned Standby & Alarm A Required Battery A	Alarm Mins: AH Required: mpHours Required: Efficiency Factor: Battery AmpHours:	
Device Addresses U Device Addresses Avail	Used: 5 able: 50 Drop MAX Circuit Current (amps): 3 Isage: Notification	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combin Total Combin B	0.147220 24 3.54 ned Standby & Alarm A Required Battery A Source	Alarm Mins: AH Required: mpHours Required: Efficiency Factor: Battery AmpHours: mpHours Provided:	24]
Device Addresses U Device Addresses Avail	Used: 5 able: 50 Drop MAX Circuit Current (amps):	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combin	0.147220 24 3.54 ned Standby & Alarm A Required Battery A	Alarm Mins: AH Required: mpHours Required: Efficiency Factor: Battery AmpHours: mpHours Provided:	24]
Device Addresses U Device Addresses Avail ircuit Configuration & Voltage U Wire Type	Jsed: 5 able: 50 Drop MAX Circuit Current (amps): : Isage: Notification Ohms/1000ft Length 1-Way	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combin 3 Description: Actual Ohms	0.147220 24 3.54 ned Standby & Alarm A Required Battery A Source Max Load (amps) 0.110	Alarm Mins: AH Required: Efficiency Factor: Battery AmpHours: mpHours Provided: Voltage Used (VDC): Volts @ EOL 23.98	24 Min Volts Req
Device Addresses L Device Addresses Avail Frouit Configuration & Voltage U Wire Type #14 Solid Lookup Type	Jsed: 5 able: 50 Drop MAX Circuit Current (amps): 3 Jsage: Notification Ohms/1000ft Length 1-Way 3.19 30 Circuit Devices Description	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combin B B Description: Actual Ohms 0.191 Standby (amp Each	0.147220 24 3.54 ned Standby & Alarm A Required Battery A Source Max Load (amps) 0.110 \$) Total	Alarm Mins: AH Required: Efficiency Factor: Battery AmpHours: mpHours Provided: e Voltage Used (VDC): Volts @ EOL 23.98 Alarm Each	24] Min Volts Req 16 n (amps) Total
Device Addresses L Device Addresses Avail Circuit Configuration & Voltage U U Wire Type #14 Solid	Used: 5 able: 50 Drop MAX Circuit Current (amps): 3 Usage: Notification Ohms/1000ft Length 1-Way 3.19 30 Circuit Devices	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combined Total Combined Description: Actual Ohms 0.191 Standby (amp	0.147220 24 3.54 ned Standby & Alarm A Required Battery A Source Max Load (amps) 0.110	Alarm Mins: AH Required: Efficiency Factor: Battery AmpHours: mpHours Provided: Voltage Used (VDC): Volts @ EOL 23.98	24 Min Volts Req 16 n (amps) Total
Device Addresses L Device Addresses Avail	Jsed: 5 able: 50 Drop MAX Circuit Current (amps): 3 Jsage: Notification Ohms/1000ft Length 1-Way 3.19 30 Circuit Devices Description	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combin B B Description: Actual Ohms 0.191 Standby (amp Each	0.147220 24 3.54 ned Standby & Alarm A Required Battery A Source Max Load (amps) 0.110 \$) Total	Alarm Mins: AH Required: Efficiency Factor: Battery AmpHours: mpHours Provided: e Voltage Used (VDC): Volts @ EOL 23.98 Alarm Each	24] Min Volts Req 16 n (amps) Total
Device Addresses U Device Addresses Avail Circuit Configuration & Voltage U Wire Type #14 Solid Lookup Type	Jsed: 5 able: 50 Drop MAX Circuit Current (amps): 3 Jsage: Notification Ohms/1000ft Length 1-Way 3.19 30 Circuit Devices Description	I/O Circuit Current: Total Standby: Standby Hours: AH Required: Total Combin B B Description: Actual Ohms 0.191 Standby (amp Each	0.147220 24 3.54 ned Standby & Alarm A Required Battery A Source Max Load (amps) 0.110 \$) Total	Alarm Mins: AH Required: Efficiency Factor: Battery AmpHours: mpHours Provided: e Voltage Used (VDC): Volts @ EOL 23.98 Alarm Each	24] Min Volts Req 16 n (amps) Total





NAC Circuits (See NAC Configuration below) Ckt Use Description		Standby (amps) Total		Alarm (amps) Total
1 Notification		0.00000		0.11000
2 Notification		0.00000		0.00000
	NAC Standby:	0.00000	NAC Alarm:	0.11000
I/O Circuits (See I/O Configuration below) Ckt Use Description		Standby (amps) Total		Alarm (amps) Total
1		0.00000		0.00000
2		0.00000		0.00000
	I/O Standby:	0.00000	I/O Alarm:	0.00000
Battery Calculation Summary		Standby (amps)		Alarm (amps)
	Panel Current:	0.13000		0.22000
	P-Link Current:	0.01600		0.02300
	SLC Device Current:	0.00122		0.03722
	NAC Circuit Current:	0.00000		0.11000
	I/O Circuit Current:	0.00000		0.00000
SLC Loop Type: Class B	Total Standby:	0.147220	Total Alarm:	0.39022
Device Addresses Used: 5	Standby Hours:	24	Alarm Mins:	5
Device Addresses Available: 50	AH Required:	3.54	AH Required:	0.04
	Total Com	bined Standby & Alarm Ar	npHours Required:	3.58
			Efficiency Factor:	20%
		Required I	Battery AmpHours:	4.30
		Battery Ar	mpHours Provided:	7ah

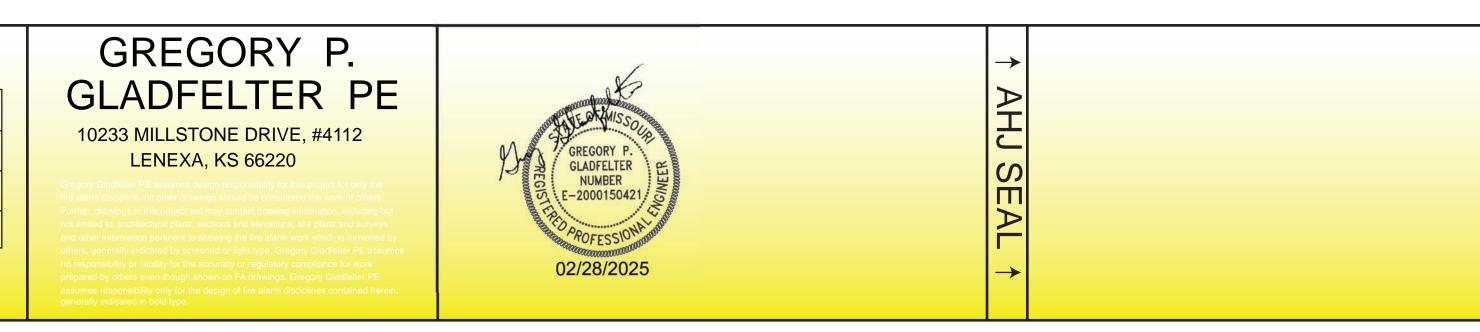
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NAC 2			MAX Circuit Current (amps):	3	Sourc	e Voltage Used (VDC):	24
	Usage	e: Notification		Description:			
	Wire Type	Ohms/1000ft	Length 1-Way	Actual Ohms	Max Load (amps)	Volts @ EOL	Min Volts Req'd
	#14 Solid	3.19	30	0.191	0.231	23.96	16
_							
		Circuit Devices		Standby (ar			(amps)
Qty	Lookup Type		Descrption	Each	Total	Each	Total
1	User Defined	Systen Sensor P2RK	150cd)	0.000000	0.000000	0.231000	0.231000
	•	-		Total Standby:	0.00000	Total Alarm:	0.23100

Sire Alarm Solutions 🛩 3150 MERCIER SUITE 520 KANSAS CITY, MO 64111 816-753-4660

Description: New fire alarm system These drawings are the intellectual property and actual property of Fire Alarm Solutions and or Kennyco Industries, Inc. It is submitted in confidence and is not to be disclosed or used with out our expressed

Date:	3/03/2025			
Job:	LAKEWOOD BUSINESS CENTER			
Drawing:	1.0	Sheet	1 of 2	
Scale:	I/8inch = Ifoot			



Fire Alarm General Notes

- Wall X mounted visual notification devices will be mounted so that the entire lens is not less than 80" and not greater than 96" AFF.
 Wall signal devices X X can be mounted on 4"X4"X2" with or without mud ring, 4"X4"X1.5" with or without mud ring, or 1-Gang box or a low voltage ring.
- Ceiling signal devices can be mounted on 4"X4"X2" box or 3-1/2" octagon box. 3. Strobes shall be synchronized by floor and area. 4. All horns and horn strobes will be 15dba above ambient noise.
- 5. Pull stations F will be mounted within 5' of the exit on each floor.
 The operable lever will not be less than 42" and not more than 48" AFF.
 Pull stations can be mounted on 4"X4"X2" box with or without mud ring, 4"X4"X1.5" with or without mud ring, or 1-Gang box. DO NOT USE LOW VOLTAGE RING TO MOUNT PULL STATIONS
- 6. All modules will be mounted in 4"X4"X2" boxes. 7. All wiring shall be ran according to code and if not ran in conduit it will be held high above finished ceiling and properly secured and supported. 8. All fire alarm wiring below 7 feet will be in conduit. 9. All devices will be clearly labeled.
- 10. All junction boxes related to fire alarm require a **RED** cover.
- 11. Open ceiling wiring shall be ran in conduit if support is not available. 12. Smoke detectors will be mounted no less than 36 inches from any air diffuser.
- 13. General Alarm will sound when any device is in alarm. 14. Ceiling mounted detectors Can be mounted on 3-1/2 in. Octagon box,
- 4"X4"X2" with or without mud ring, 4"X4"X1.5" with or without mud ring, or 1-Gang box. IF it is a hard ceiling a low voltage ring can be used.
 15. The SLC devices: F S
- will be wired together and wired back to the Fire Alarm Control Panel. 16. ALL CONDUIT STUBS WILL HAVE INSULATORS AND KNOCK OUTS WILL HAVE BUSHINGS INCLUDING WIREMOLD.



BUILDING IS 100% SPRINKLED



This system designed and installed according to NFPA 72 2018-IBC 2018 & IFC 2016 SECTION 907

WAREHOUSE

WAREHOUSE

WAREHOUSE

CONSTRUCTION TYPE: II-B OCCUPANCY TYPE: S1 LEVELS: 1 TOTAL SQUARE FOOTAGE: 78,345

PAD 300-PD

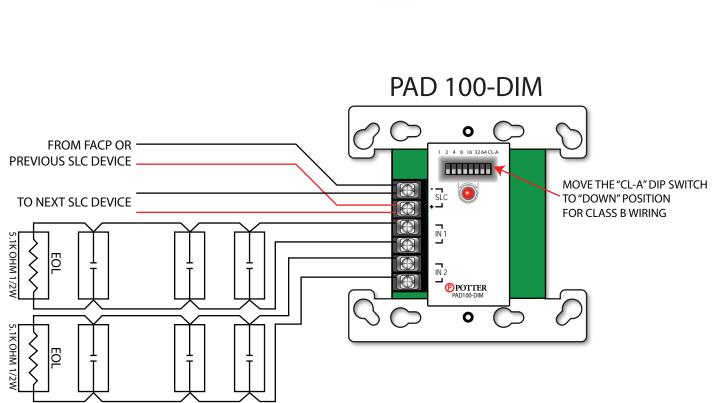


PAD 100-PSDA



SYSTEM SENSOR P2RL/SRL

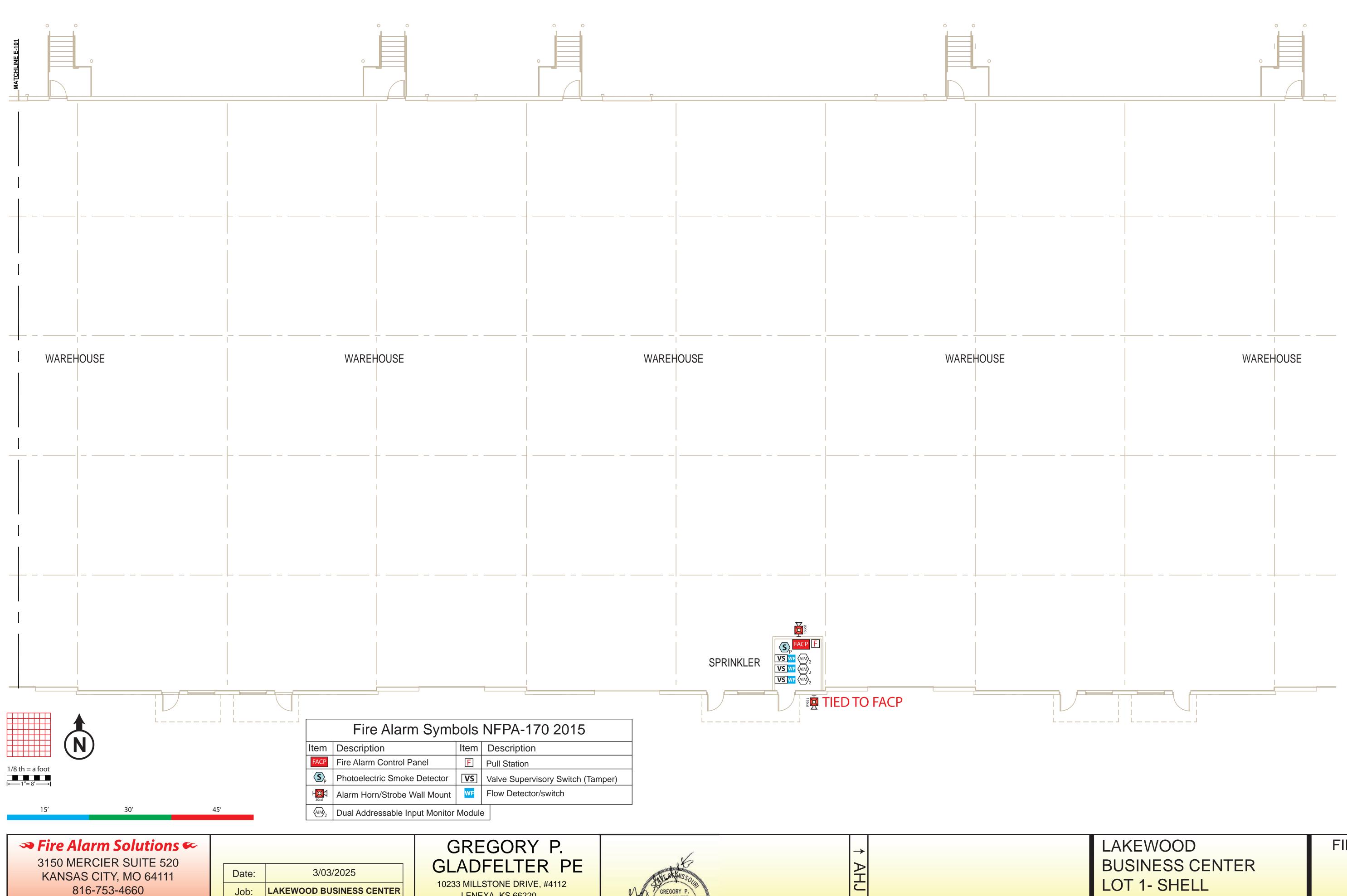




LAKEWOOD **BUSINESS CENTER** LOT 1- SHELL N.E. Maguire Blvd. Lee's Summit, MO 64064



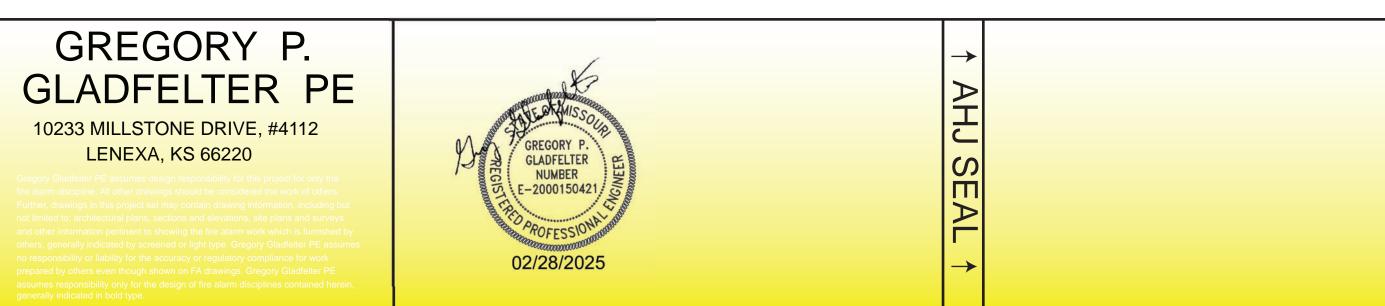
FIRE ALARM PLAN



Description: New fire alarm system These drawings are the intellectual property and actual property of Fire Alarm Solutions and or Kennyco Industries, Inc. It is submitted in confidence and is not to be disclosed or used with out our expressed

ritten consent

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Date:	3/03/2025			
Job:	LAKEWOOD BUSINESS CENTER			
Drawing:	1.1	Sheet	2 of 2	
Scale:	I/8inch = Ifoot			



NE Maguire Blvd. Lee's Summit, MO 64064

