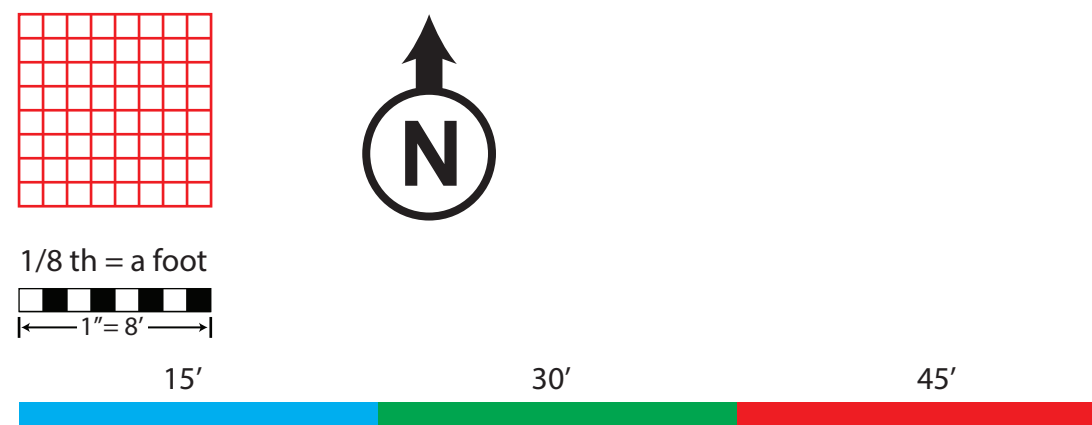


Item	Description
	<b>EXISTING</b> Fire Alarm Control Panel
	Remote Power Supply
	<b>EXISTING</b> Photoelectric Smoke Detector
	Alarm Strobe/Ceiling Mount
	Alarm Horn/Strobe Ceiling Mount



**POTTER**  
The Symbol of Protection

Project Name: 1x Plastics      Standby Hours: 24  
 Alarm Min: 5  
 Installed By: Fire Alarm Solutions      Efficiency Factor: 20%  
 Designed By: Fire Alarm Solutions      Date: 12/12/2024  
 NAC Source Voltage: 24

Model #: P5N-64      Max Panel Current (amps): 6  
 Panel ID:      Location: Break Room

Use assumes all responsibility to ensure the quantity and current draw values in this worksheet are accurate and as submitted.

Panel	Description	Class	Standby (amps)	Alarm (amps)	Total	
1	NAC Power Expander	Class B	0.075	0.075	0.075	
NAC Circuits (See NAC Configuration below)						
Out	Use	Description	Class	Standby (amps)	Alarm (amps)	Total
1	Notification	Class B	0.0000	0.0000	0.2800	
2	Notification	Class B	0.0000	0.0000	0.3580	
3		Class B	0.0000	0.0000	0.0000	
4		Class B	0.0000	0.0000	0.0000	
AUX			0.0000	0.0000	0.0000	
NAC Standby:			0.0000	NAC Alarm:	0.64700	

**Battery Calculation Summary**

Standby (amps)	Alarm (amps)
Panel Current: 0.07500	0.07500
NAC Circuit Current: 0.00000	0.64700
<b>Total Standby: 0.07500</b>	<b>Total Alarm: 0.72200</b>
Standby Hours: 24	Alarm Min: 5
AH Required: 1.80	AH Required: 0.07
<b>Total Combined Standby &amp; Alarm Amperes Required: 1.87</b>	<b>Safety Margin: 20%</b>
Required Battery Amperes: 2.24	
Battery Amperes Provided: 7Ah	

**NAC Circuit Configuration & Voltage Drop**      1x Plastics      12/12/2024

**NAC 1**      MAX Circuit Current (amps): 3      Source Voltage Used (VDC): 24

Class: Class B      Usage:      Notification      Description:

Wire Type	Ohms/1000ft	Length 3-Way	Actual Ohms	Max Load (amps)	Volts @ EOL	Min Volts Req'd
#14 Solid	3.75	100	0.375	0.25	23.82	16

Qty	Lookup Type	Circuit Devices	Description	Each	Standby (amps)	Total	Each	Alarm (amps)	Total
4	User Defined	System Sensor S1 (15c)		0.00000	0.00000	0.01800	0.07200	0.07200	0.28800
1	User Defined	System Sensor P21 (10c)		0.00000	0.00000	0.01800	0.01800	0.01800	0.01800
1	User Defined	System Sensor S1 (10c)		0.00000	0.00000	0.02200	0.02200	0.02200	0.02200
1	User Defined	System Sensor S1 (75c)		0.00000	0.00000	0.07000	0.07000	0.07000	0.07000
1	User Defined	System Sensor P21 (75c)		0.00000	0.00000	0.08700	0.08700	0.08700	0.08700
Total Standby:					0.0000				1.1800

**NAC 2**      MAX Circuit Current (amps): 3      Source Voltage Used (VDC): 24

Class: Class B      Usage:      Notification      Description:

Wire Type	Ohms/1000ft	Length 3-Way	Actual Ohms	Max Load (amps)	Volts @ EOL	Min Volts Req'd
#14 Solid	3.19	300	0.954	0.31	23.11	16

Qty	Lookup Type	Circuit Devices	Description	Each	Standby (amps)	Total	Each	Alarm (amps)	Total
1	User Defined	System Sensor S1 (10c)		0.00000	0.00000	0.02200	0.02200	0.02200	0.02200
1	User Defined	System Sensor S1 (75c)		0.00000	0.00000	0.07000	0.07000	0.07000	0.07000
2	User Defined	System Sensor P21 (75c)		0.00000	0.00000	0.08700	0.08700	0.08700	0.17400
1	User Defined	System Sensor P21 (110c)		0.00000	0.00000	0.09200	0.09200	0.09200	0.09200

CONSTRUCTION TYPE: II-B  
 OCCUPANCY TYPE: S1-B  
 LEVELS: 1  
 TOTAL SQUARE FOOTAGE: 10,537  
 Central Station Service-Alarm Central

This system designed  
 and installed according to  
 NFPA 72 2019 - IBC 2018  
 & IFC 2018 SECTION 907

**BUILDING IS  
 100% SPRINKLED**

**Fire Alarm Solutions**  
 3150 MERCIER SUITE 520  
 KANSAS CITY, MO 64111  
 816-753-4660

Date:	12/12/2024		
Job:	1X PLASTIC		
Drawing:	1.0	Sheet	1 of 1
Scale:	1/8inch = 1foot		

Description:  
 TENANT FINISH

These drawings are the intellectual property and actual property of Fire Alarm Solutions and/or Kennycos Industries, Inc. It is submitted in confidence and is not to be disclosed or used without our expressed written consent.

**GREGORY P.  
 GLADFELTER PE**  
 10233 MILLSTONE DRIVE, #4112  
 LENEXA, KS 66220

Gregory Gladfelder PE assumes design responsibility for this project for only the fire alarm discipline. All other drawings should be reviewed and stamped with the proper drawings in the project call their own drawings information including but not limited to architectural plans, sections and elevations, site plans and surveys and other information pertinent to drawing the fire alarm work which is furnished by others. Generally indicated as provided on right. Gregory Gladfelder PE assumes responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on FA drawings. Gregory Gladfelder PE assumes responsibility only for the design of the alarm discipline contained herein, generally indicated in bold type.



**AHJ SEAL**

**1X PLASTICS**

2700 NE McBaine Drive  
 Lee's Summit,  
 Missouri 64064

FIRE ALARM PLAN

**FA 1.0**

