



FIRE ALARM SYSTEM

GENERAL NOTES

1. ALL CABLE SPLICES OR TERMINATIONS SHALL BE IN LISTED FITTINGS, BOXES, ENCLOSURES, OR FIRE ALARM DEVICES. ALL WIRE BELOW 7' AFF SHALL BE SECURELY FASTENED IN AN APPROVED MANNER AT INTERVALS OF NOT MORE THAN 18". *NFPA 70 2018 760.53 (A)(1)*
2. FIRE ALARM COMMUNICATION THROUGH APPROVED UL LISTED SOLE PATH CELLULAR COMMUNICATION DEVICE LOCATED NOT MORE THAN 20' FROM THE FACP. *NFPA 72 2019 26.6.3*
3. FIRE ALARM CONTROL PANEL REQUIRES (1) 20A SINGLE POLE CIRCUIT. THIS CIRCUIT SHALL BE SEPARATE FROM ANY OTHER CIRCUIT, AND MECHANICALLY LOCKED IN THE 'ON' POSITION. SHALL BE LABELED "FIRE ALARM" *NFPA 72 2019 10.6.5*
4. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN THREE FEET FROM ANY AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. THEY ALSO SHALL NOT BE LOCATED IN A DIRECT AIR PATH. *NFPA 72 2019 A17.7.4.1*
5. FIRE ALARM DEVICES ON THIS PLAN ARE TO BE LOCATED IN THE APPROXIMATE LOCATION SHOWN. INSTALL ALL DEVICES IN SUCH A WAY TO AVOID INTERFERENCE WITH EXISTING CONDITIONS. ALL DEVICES SHALL FOLLOW APPLICABLE CODE AND AHJ REQUIREMENTS WHEN INSTALLED.
6. ALL INITIATING DEVICE CIRCUITING TO BE DETERMINED AT TIME OF INSTALLATION TO AVOID CONFLICTS WITH EXISTING CONDITIONS. ALL CIRCUITING TO FOLLOW MANUFACTURERS RECOMMENDATIONS, ESPECIALLY REGARDING T-TAPPING. *NFPA 72 12.2.3*
7. ALL AUDIBLE NOTIFICATION DEVICES SHALL OPERATE IN A THREE PULSE TEMPORAL PATTERN *NFPA 72 2019 18.4.2.1*. ALL VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR STROBES IN SYNC. *NFPA 72 2019 18.5.5.2*
8. DUCT SMOKE DETECTORS SHALL BE INSTALLED, POWERED, AND CONNECTED BY HVAC CONTRACTOR TO CORRESPONDING AIR HANDLER UNIT FOR FAN SHUTDOWN, AND SHALL ONLY BE MONITORED BY FIRE ALARM CONTROL PANEL FOR TROUBLE AND SUPERVISORY SIGNALS. *NFPA 72 10.3.3 AND 17.7.5.5*
9. ALL DOORS LEADING FOR FIRE ALARM CONTROL EQUIPMENT SHALL BE LABELED. *IFC 2018 509.1*

SCOPE OF WORK

1. NEW FIRE ALARM SPRINKLER MONITORING SYSTEM IN BUILDING.
2. BUILDING C VISUAL/AUDIBLE NOTIFICATION THROUGHOUT
3. BUILDING D WILL BE ADDED TO SYSTEM AT LATER DATE UNDER SEPARATE PERMIT.

SYMBOL LEGEND

Symbol Legend				
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	QUANTITY
	PHOTO SMOKE SENSOR	POTTER ELECTRIC SIGNAL	PAD100-PD	1
	ADDRESSABLE PULL STATION, DUAL ACTION	POTTER ELECTRIC SIGNAL	PAD100-PSDA	1
	SINGLE INPUT MODULE	POTTER ELECTRIC SIGNAL	PAD100-SIM	5
	L-SERIES 2-WIRE, HORN STROBE, RED, WALL	SYSTEM SENSOR	P2RL	1
	LTE DIGITAL CELLULAR FA COMMUNICATOR AND INTERNET PANEL, AT&T LTE/IP	M2M SERVICES	MQ03-LTE-FIRE-AV	1
	AFC-50, FACP, 50 POINT, 2 NACs	POTTER ELECTRIC SIGNAL	AFC-50	1
	PRESSURE SWITCH, SP, PS10-1	POTTER ELECTRIC SIGNAL	PS10-1	2
	4 IN WATERFLOW SW, VANE TYPE W/RETARD	POTTER ELECTRIC SIGNAL	VSR-4	1
	GATE VALVE OSYSU-1	POTTER ELECTRIC SIGNAL	OSYSU-1	2
	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR	SYSTEM SENSOR	P2RK	1
	L-SERIES STROBE, 2 WIRE, M-C, RED, CEILING	SYSTEM SENSOR	SCRL	1
	L-SERIES 2-WIRE, HORN STROBE, RED, CEILING	SYSTEM SENSOR	PC2RL	4

BUILDING INFORMATION

AREA OF WORK: 22,500SQFT

FULL BUILDING AREA: 22,500SQFT

BUILDING HEIGHT: 26'-11"

NUMBER OF STORIES: 1

OCCUPANCY TYPE: S

BUILDING USE: STORAGE

CONSTRUCTION TYPE: V-B

AUTHORITY HAVING JURISDICTION: CITY OF SPARKS

MONITORED FIRE ALARM: YES

SPRINKLERED: YES

CODE REFERENCES

2018 INTERNATIONAL FIRE CODE
2019 NATIONAL FIRE ALARM CODE NFPA 72
2017 National Electric Code NEC 70
2018 INTERNATIONAL BUILDING CODE IBC ICC

FIRE ALARM INFORMATION

FIRE ALARM MANUFACTURER: POTTER
FIRE ALARM MODEL NUMBER: AFC-50
FIRE ALARM TYPE: ADDRESSABLE
COMMUNICATION TYPE: CELLULAR

MONITORED BY: ALL AMERICAN MONITORING
1301 SARASOTA CENTER BLVD
SARASOTA, FL 34240
UL LISTING 142301-002
S1998-1 UUF^X (SIGNAL AND FIRE ALARM EQUIPMENT AND SERVICES) PROTECTIVE SIGNALING SERVICES) CENTRAL STATION

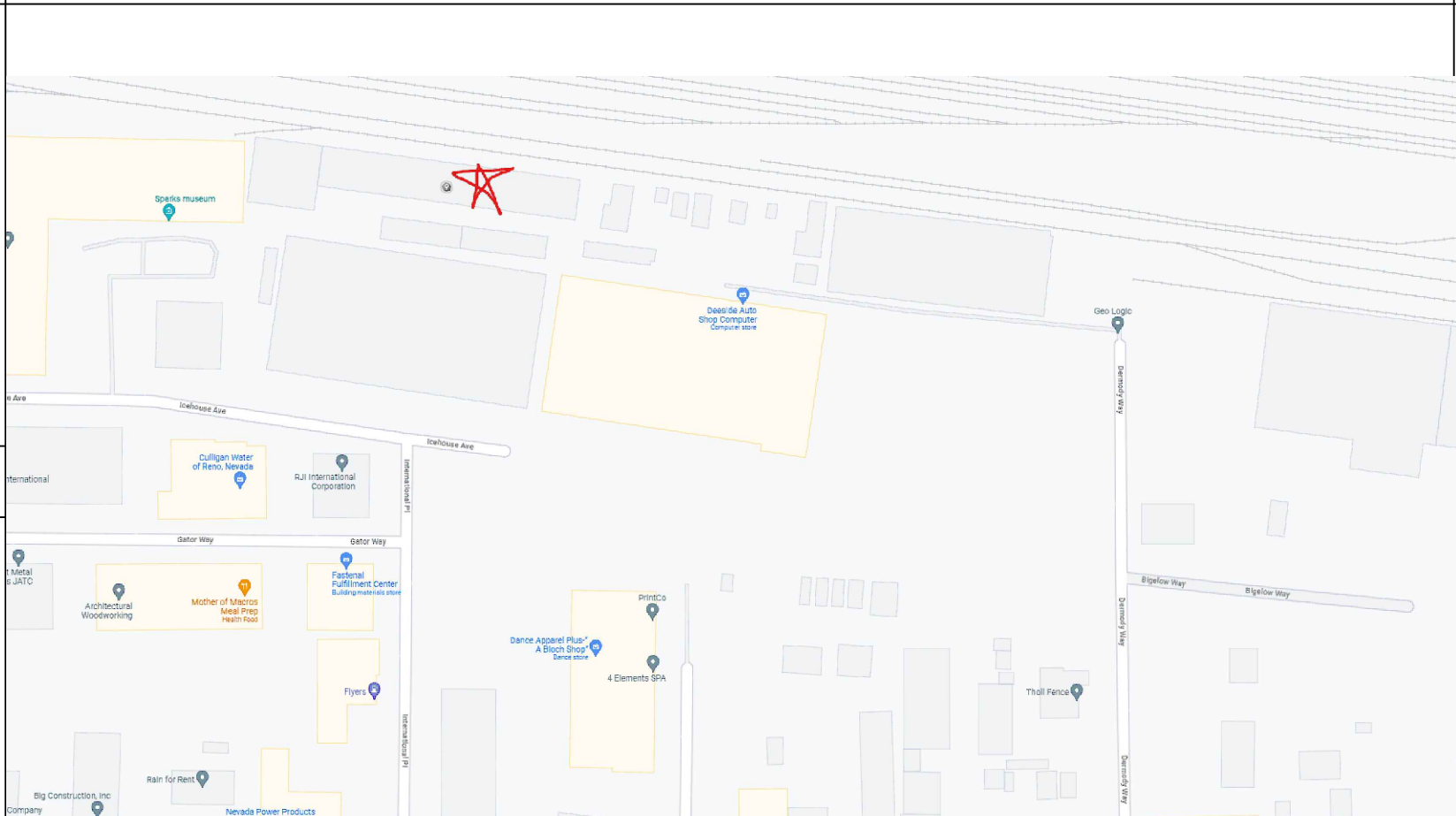
SHEET INDEX

FA01- TITLE PAGE, GENERAL NOTES, BUILDING CODE SYMBOL LEGEND, OPERATION MATRIX, SITE MAP.

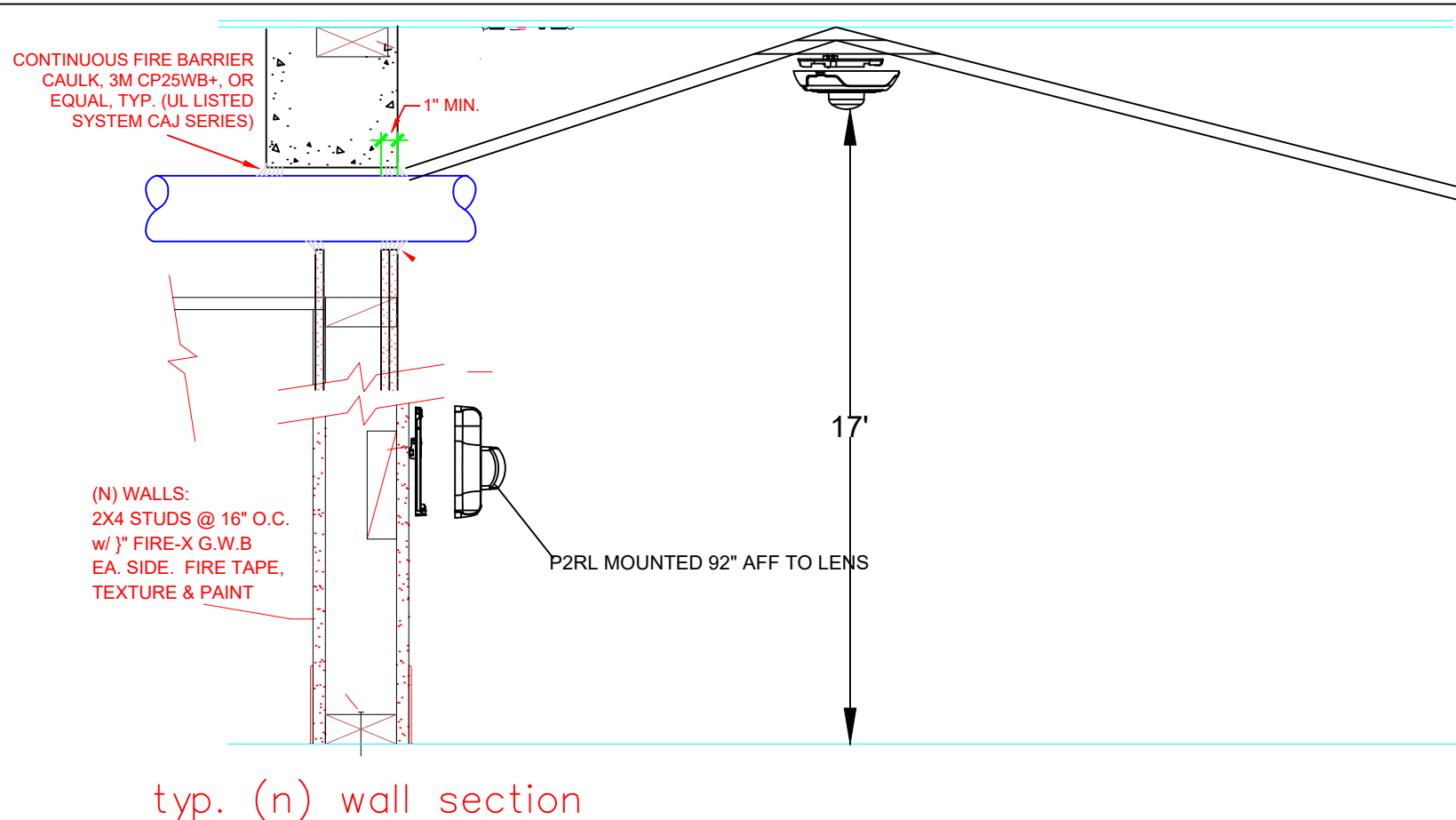
EQUIPMENT DETAILS, RISER DIAGRAM, BATTERY CALCULATIONS, CIRCUIT CALCULATIONS

FA02- FLOOR PLAN WITH DEVICE LOCATIONS

SITE MAP



ELEVATIONS



Battery Calculations

Battery Calculations for Panel: AFC-50					
Part No:AFC-50 - AFC-50, FACP, 50 POINT, 2 NACs					
Job number: 1 Job name: Drawing5					
Part No.	Qty.	Description	Standby	Total Standby	Alarm
Panel Equipment			130.0000mA	130.0000mA	200.0000mA
AFC-50_MB	1	AFC-50_MB		130.0000mA	200.0000mA
Total Panel Stby				130.0000mA	200.0000mA
Peripheral Devices					
P2RL	1	L-SERIES 2-WIRE, HORN STROBE, RED, WALL (Notification) 185CD 89dB	0.0000mA	0.0000mA	245.0000mA
P2RK	1	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR (Notification) 115CD 84dB	0.0000mA	0.0000mA	218.0000mA
SCRL	1	L-SERIES STROBE, 2 WIRE, M-C, RED, CEILING (Notification) 15CD	0.0000mA	0.0000mA	41.0000mA
PC2RL	4	L-SERIES 2-WIRE, HORN STROBE, RED, CEILING (Notification) 177CD 89dB	0.0000mA	0.0000mA	254.0000mA
MQ03-LTE-FIRE-AV	1	LTE DIGITAL CELLULAR FA COMMUNICATOR AND INTERNET PANEL, AT&T LTE/IP (Power)	50.0000mA	50.0000mA	200.0000mA
PAD100-PD	1	PHOTO SMOKE SENSOR (Signaling line)	0.3000mA	0.3000mA	0.3000mA
PAD100-PSDA	1	ADDRESSABLE PULL STATION, DUAL ACTION (Signaling line)	0.2000mA	0.2000mA	0.2000mA
PAD100-SIM	5	SINGLE INPUT MODULE (Signaling line)	0.2400mA	1.2000mA	0.2400mA
PS10-1	2	PRESSURE SWITCH, SP, PS10-1 (Initiating)	0.0000mA	0.0000mA	0.0000mA
VSR-4	1	4 IN WATERFLOW SW, VANE TYPE W/RETARD (Initiating)	0.0000mA	0.0000mA	0.0000mA
OSYSU-1	2	GATE VALVE OSYSU-1 (Initiating)	0.0000mA	0.0000mA	0.0000mA
Total Peripheral Stby			51.7000mA	51.7000mA	1721.7000mA
Total Standby Amps			181.7000mA	181.7000mA	1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA
Total Standby Amps					1921.7000mA
Total Alarm Amps					1921.7000mA

