

NAC	CIRCUIT VOL	TAGE DROP		NAC	CIRCUI	T VOLTAGE	DROP	
SECTION A - NAC Ckt #3				SECTION A - NAC CKT #2				
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE		QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 110	1	0.2	0.2	HORN/STROBE - 75		5	0.08	0.
STROBE - 15/75		0.077	0	STROBE - 15/75		2	0.077	0.15
TOTAL			0.2	TOTAL				0.55
LOOP LENGTH	10	WIRE SIZE	#14	LOOP LENGTH		280	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS		LOSS	FINAL VOLTS	MIN. VOLTS
24	0.01	23.99	16		24	0.79	23.21	1
NAC	CIRCUIT VOL	TAGE DROP						
SECTION A - NAC Ckt #1								
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS					

0.08

0.077

0.02

FINAL VOLTS MIN. VOLTS

200 WIRE SIZE #14

HORN/STROBE - 15/75

HORN/STROBE - 110

STROBE - 15/75

LOOP LENGTH

NOM. VOLTS

TOTAL

NAC C	IRCUI	T VOLTAGE	DROP	
SECTION A - NAC CKT #2				
APPLIANCE		QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75		5	0.08	0.4
STROBE - 15/75		2	0.077	0.154
TOTAL				0.554
LOOP LENGTH		280	WIRE SIZE	#14
NOM. VOLTS		LOSS	FINAL VOLTS	MIN. VOLTS
	24	0.79	23.21	16

NC	DTES:
1.	ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS. INCLUDING CHAPTER 72.
2.	INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE,

- OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
- ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED

CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY. TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE DETECTORS BE COVERED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. WHEN PROJECT IS CLEAN PROTECTIVE COVERS SHALL BE REMOVED BY AUTHORIZED SERVICE

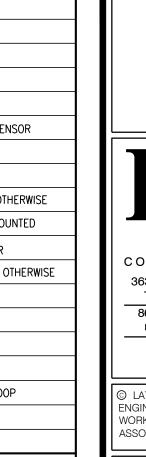
PERSONNEL.

- ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL
- SYSTEMS SHALL BE TESTED AND CERTIFIED IN PRESENCE OF CITY INSPECTOR PRIOR TO OCCUPANCY.
- SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES ALL HORN/STROBES AF

						1	`	•
ARE	75	CANDELA	UNLESS	NOTED	OTHERWISE.		EOL	END-OF

	NFPA SYMBOLS LEGEND				
R	RELAY				
FCP	FIRE ALARM CONTROL PANEL				
FAA	REMOTE FIRE ALARM ANNUNCIATOR				
①	HEAT DETECTOR				
	DUCT DETECTOR				
오	DOOR HOLDER				
•	MANUAL PULL STATION AT 48"				
⊘co	SMOKE DETECTOR WITH CARBON MONOXIDE SENSOR				
0	SMOKE DETECTOR				
	HORN AT 80" - LOW FREQUENCY				
Ø	AUDIO VISUAL, 15 CANDELA UNLESS NOTED OTHERWISE				
∑ ⊠ 110	AUDIO VISUAL, 110 CANDELA AT 80" WALL MOUNTED				
<b>©</b>	CEILING MOUNTED CARBON MONOXIDE SENSOR				
×	STROBE AT 80" 15 CANDELA UNLESS NOTED OTHERWISE				
5- <b>\</b> }-\$	FLOW DETECTOR/SWITCH				
Ŗ	TAMPER DETECTOR				
WP	WEATHER PROOF				
<b>*</b>	18/2 CABLE SLC LOOP				
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP				
EOL	END-OF-LINE RESISTOR				
A	AIR PRESSURE DETECTOR				
* ALL	SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS				

NEDA CVMBOLO LEGEND





8/29/2023

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IMPROVEMENT

64063

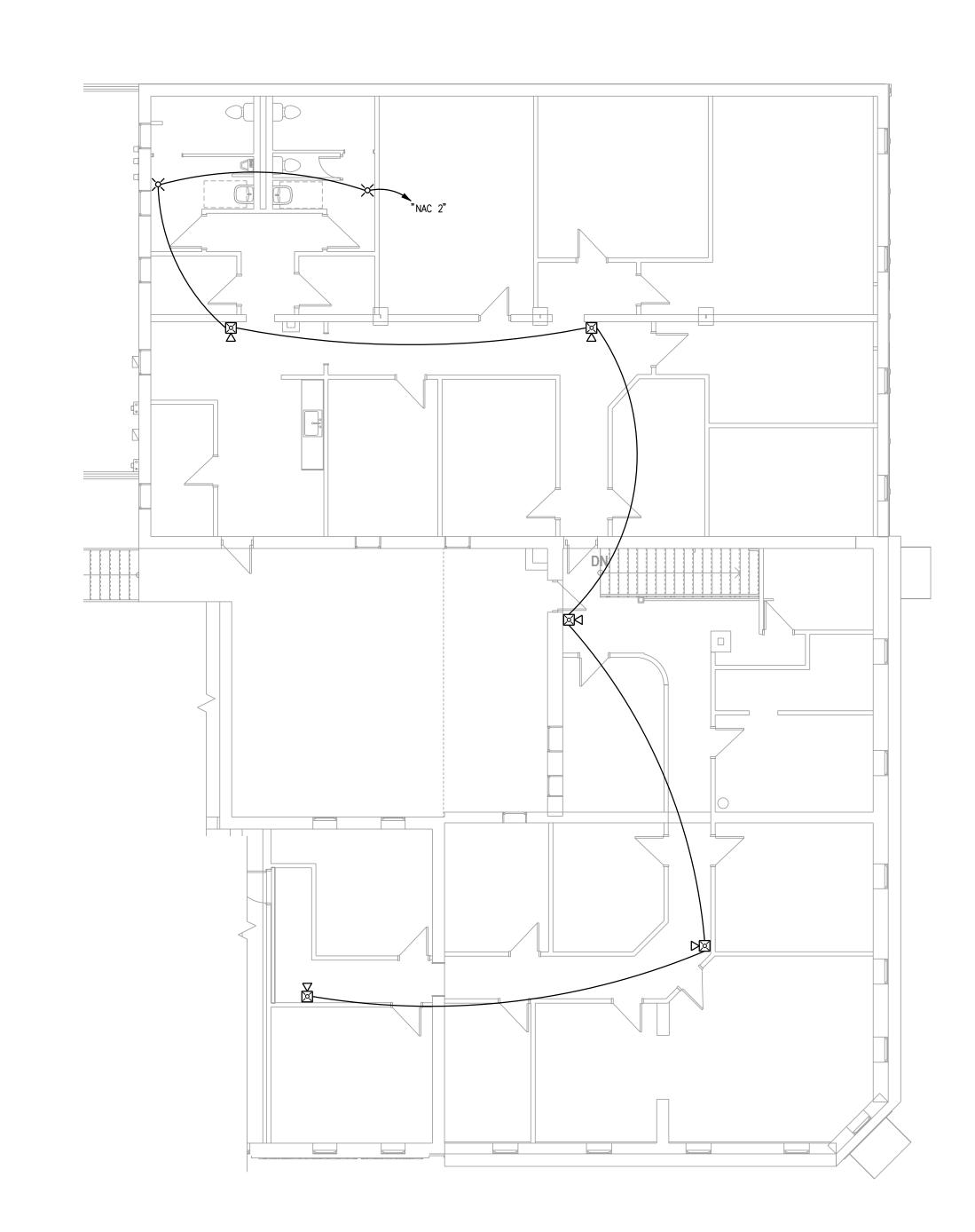
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SUMMIT,

230 SW MAIN ST.,

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2 SECOND FLOOR PLAN

1/8"=1'-0" FIRE ALARM

FCPS-24FS6 / 8 Battery Calculation						
Entries only to be made in the Yellow cell locations						
Regulated Load in Standby						
	Number of		Current		Total Currer	
Device Type	Devices		(Amps)		(Amps)	

Jobsite Information: Main Street Landlord Improvements

	Number of		Current		Total Current
Device Type	Devices		(Amps)		(Amps)
Main PC Board	1	X	0.065	=	0.065
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw		X		=	0
from TB4 Terminals 9 & 10					
	•	•	•		
		STA	NDBY LOAD	=	0.06

Device Type	Number of Devices		Current (Amps)		Total Curre (Amps)
Main PC Board without AC	1	X	0.145	=	0.145
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw		X		=	0
from TB4 Terminals 9 & 10					
NAC / Output # 1	6	X	0.066	=	0.396
Strobes					
NAC / Output # 2	10	X	0.08	=	0.8
Horn/Strobes					
NAC / Output # 3		X		=	0
Spare					
NAC / Output # 4		X		=	0

Battery Amp Hour	Calculation				
Standby Load	Guicalation		Required Standb	y Time	
Current (Amps)			(Typically 24 or 6	30 Hours)	
	0.065	X	24 =		1.56 AH
Alarm Load			Required Alarm	Time	
Current (Amps)			(Typically 5 or 10	) Minutes )	
	1.341	X	10 =	=	0.22 AH
	Sub Total	Standby	/ / Alarm Amp Ho	ours	1.78 AH
	Multiply by	the Der	ating Factor >	(	1.2 *
	<b>Total Ampere</b>	Hours	Required =	•	3 AH

ALARM LOAD =

\* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

PERFORMING SUBCONTRACTOR
TIM MYERS
T&C FIRE & SECURITY SYSTEMS, LLC
4267 MILAM RD
BATES CITY, MO

	MAM					
	REVISIONS					
NO.	DESCRIPTION	DATE				
$\triangle$	TENANT FINISH	08/29/23				
DATE:						
01/31/2023						

STREET

2304007

SHEET DESCRIPTION:

LSA PROJECT NO.:

FLOOR PLANS - FIRE ALARM

SHEET NO.:

FA1