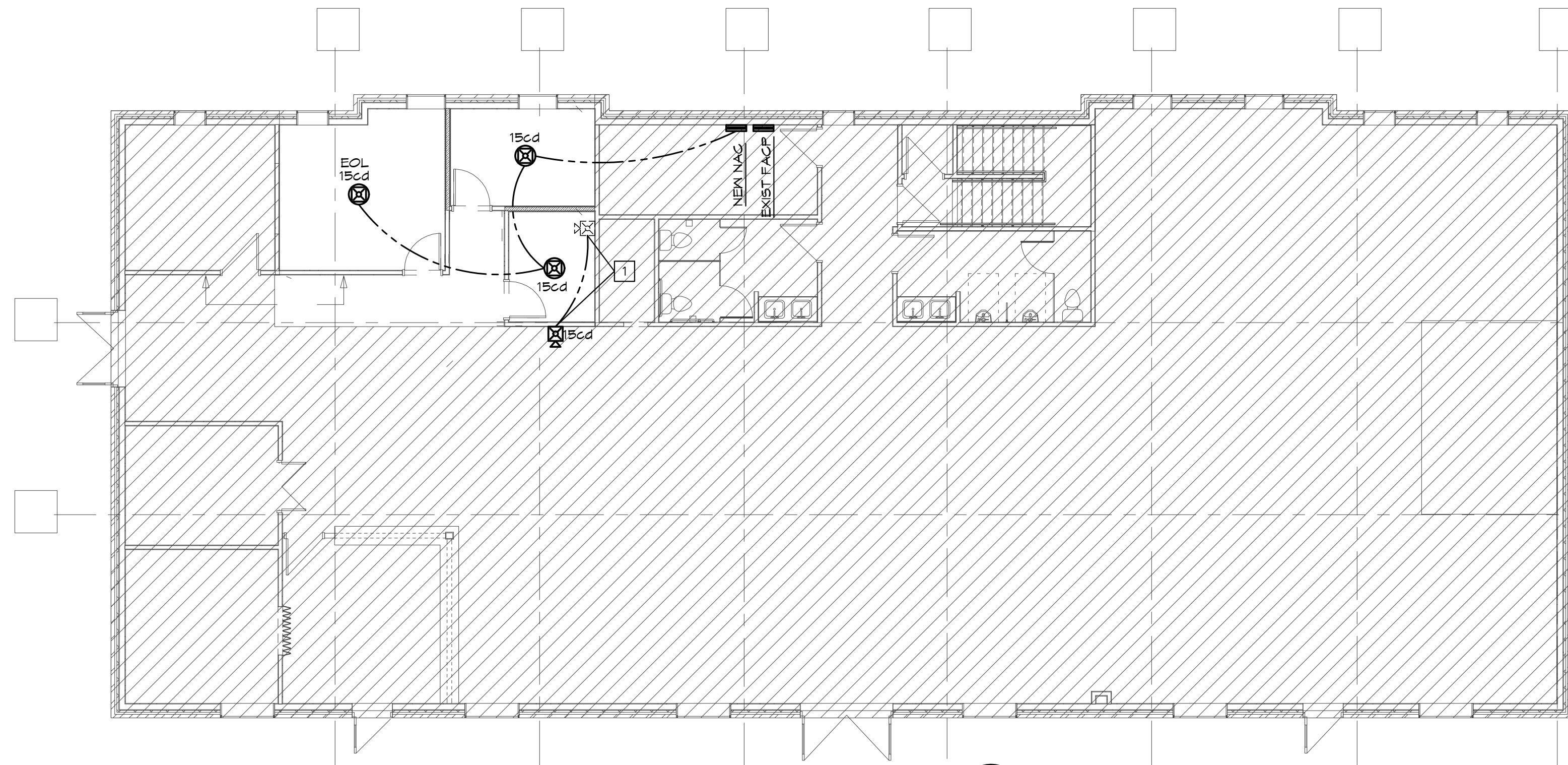**MAIN LEVEL FIRE ALARM PLAN**
SCALE: 1/8" = 1'-0"
NORTH

LOWER LEVEL FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"
NORTH

FIRE ALARM PLAN NOTES:

1. RELOCATE EXISTING NOTIFICATION DEVICE AS INDICATED. EXTEND EXISTING WIRING AND RECONNECT TO EXISTING NAC CIRCUIT.

FIRE ALARM SYMBOLS LIST

FACP	FIRE ALARM CONTROL PANEL - EXISTING
NAC	FIRE ALARM NAC POWER SUPPLY - FIRELITE #FCPS248
F	FIRE ALARM MANUAL PULL STATION, CENTERLINE AT 48" AFF
	FIRE ALARM HORN/STROBE COMBINATION SIGNAL, CEILING MOUNTED - GENTEX #GCC24CR
	FIRE ALARM VISUAL STROBE, CEILING MOUNTED - GENTEX GC24CR
	RELOCATED FIRE ALARM HORN/STROBE, CENTERLINE AT 6'-8" AFF

FIRE ALARM GENERAL NOTES:

1. SYSTEM WIRING SHALL BE 14/2 SOLID FPLP FOR NOTIFICATION APPLIANCE CIRCUITS
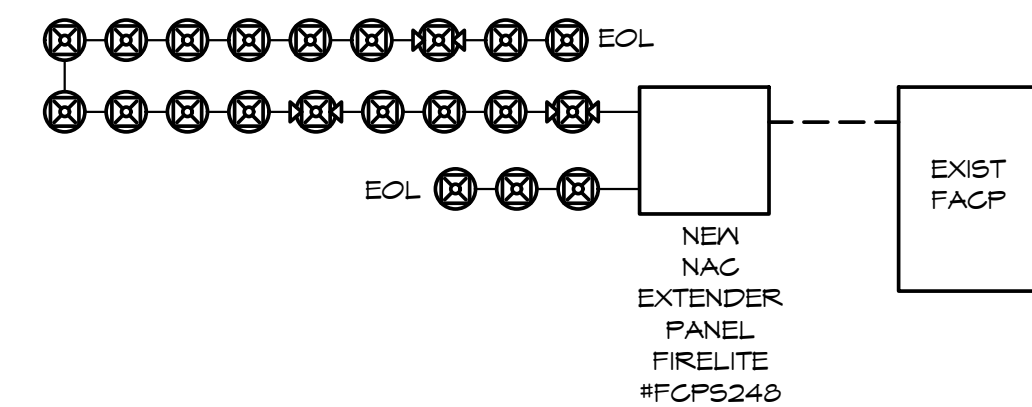
FIRE ALARM RISER DIAGRAM
SCALE: NONE

EOL
EXIST FACP
NEW NAC EXTENDER PANEL FIRELITE #FCPS248

Jobsite Information:

FCPS-24FS6 / 8 Battery Calculation
Entries only to be made in the Yellow cell locations

Regulated Load in Standby

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

Regulated Load in ALARM

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main PC Board without AC	1	X	0.145	=	0.145
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw from TB4 Terminals 9 & 10		X		=	0
NAC / Output # 1	3	X	0.097	=	0.291
NAC / Output # 2	18	X	0.097	=	1.746
NAC / Output # 3		X		=	0
NAC / Output # 4		X		=	0
			ALARM LOAD	=	2.182

Battery Amp Hour Calculation

Standby Load Current (Amps)	0.065	X	Required Standby Time (Typically 24 or 60 *Hours*) 24	=	1.56 AH
Alarm Load Current (Amps)	2.182	X	Required Alarm Time (Typically 5 or 10 *Minutes*) 10	=	0.36 AH
		Sub Total Standby / Alarm Amp Hours			1.92 AH
		Multiply by the Derating Factor	X		1.2 *
		Total Ampere Hours Required	**=**		**3 AH**

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

FIRE ALARM MODIFICATIONS FOR:
SHINIG LIGHT MUSIC
616 W 3RD ST,
LEE'S SUMMIT, MO

ISSUE DATE:
6-25-2020

REVISION:

SHEET TITLE
FIRE ALARM PLAN

FA1