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1. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS IS TO BE DETERMINED IN THE FIELD BY THE INSTALLATION CONTRACTOR TO SUIT CONDITIONS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
2. IF ANY CONDITION EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT JOHNSON CONTROLS IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
3. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
4. A SYSTEM OF APPROVED CONDUIT SHALL BE INSTALLED AT EACH FIRE ALARM SITE AND SHALL BE USED FOR INSTALLATION.
5. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20 AMP BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOGO OR PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
6. UPDATE THE AS-BUILT DRAWING SET DAILY WITH JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO JOHNSON CONTROLS NO LATER THAN 7 DAYS AFTER FINAL TEST.
7. THE CONTRACTOR SHALL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMANLIKE MANNER.
8. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED JOHNSON CONTROLS TECHNICAL REPRESENTATIVE.
9. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
10. IF ANY FIRE ALARM INSTALLATION RESISTANCE INTERFERES WITH THE INTEGRITY OF ALL WALL, CEILING, AND ROOF ASSEMBLIES AT ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.
11. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED DEVICES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE INSTRUCTIONS AND APPLICABLE ELECTRICAL CODES. REFER TO APPLICABLE CODES & STANDARDS FOR SPECIFIC CODE REFERENCES.
12. ALL WIRING SHALL BE INSTALLED ACCORDING TO APPLICABLE ELECTRICAL CODES.
13. CONTRACTOR SHALL MARK ALL WIRING IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODES. MARK ALL FIRE ALARM WIRING IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODE SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRING.
14. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE INSTALLED VFLP.
15. FIRE ALARM CABLE INSTALLED IN THE PLUMBING RUNS AND PENETRATING MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS SHALL BE INSTALLED VFLP.
16. FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER VET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE APPLICABLE ELECTRICAL CODES, WHERE APPLICABLE.
17. ALL WIRING, INCLUDING SHELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
18. ALL SHELDED WIRE MUST HAVE SHELDS CONTINUOUS AT FULL LENGTH OF THE WIRE.
19. A SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
20. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
21. MAINTAIN MAXIMUM CONDUIT FILL RATIO AS PER APPLICABLE ELECTRICAL CODES REQUIREMENTS.
22. EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY; HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES. JOHNSON CONTROLS MAKES NO STATEMENTS WRITTEN OR VERBAL ON THE CONDITION OF EXISTING CONDUITS.

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QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
PANELS & ANNUNCIATORS						
1		4109ES TRANSPONDER FIRE ALARM LOCAL MODE TRANSDUCER PANEL, 120 VAC	SIMPLEX	4100-9601	SIMPLEX CABINET	N/A
4		4009 IDNET NAC EXTENDER PANEL, 120 VAC, BEIGE	SIMPLEX	4009-9201	SIMPLEX CABINET	N/A
1		4009 TRMELT ADDRESSABLE IDNAC REPEATER, 120/240 VAC, PLATINUM	SIMPLEX	4009-9601	SIMPLEX CABINET	N/A
1		SERIAL LCD ANNUNCIATOR	SIMPLEX	4603-9101	6-GANG CABINET 3-1/2"D	B P
INITIATING DEVICES						
104		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
30		ADDRESSABLE STANDARD HEAT SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9703 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
16		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9714 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
173		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M
173		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9773 BASE	4" OCT, 1-1/2" D	H H H
3		ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
3		ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE WALL MOUNT	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
15		ADDRESSABLE DOUBLE ACTION MANUAL PUSH/PULL STATION	SIMPLEX	4099-9006	4" SQ, 2-1/8" D W/ SINGLE GANG COVER	M
MODULES AND RELAYS						
40		INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	SINGLE GANG 2-1/2" D W/COVER	M Z
40		RELAY IAM	SIMPLEX	4090-9002	4" SQ, 2-1/8" D W/ DBL. GANG COVER	M R R
25		TRACK MOUNTED SINGLE RELAY DPDT W/ ENCLOSURE, APOLLO AMERICA INC MR-201C	SIMPLEX	2088-9010	TRACK MOUNTED	R
16		TEMPORAL CODE 4 MODULE	SIMPLEX	4905-9835	4" SQ, 2-1/8" D	M V
NOTIFICATION APPLIANCES						
69		ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, CLEAR LENS, FIRE	SIMPLEX	4900-9254	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
33		ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	4900-9251	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S S
2		ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS APPLIANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49V0-APPLC 49V0C-CWF	4" SQ, 1-1/2" D	A S
2		ADDRESSABLE MULTI, HIGH-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS APPLIANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49V0H-APPLC 49V0C-CWF	4" SQ, 1-1/2" D	A S
1		ADDRESSABLE MULTI-CANDELA WEATHERPROOF HORN/STROBE WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49AV-WRFO	49WPB8-AVOWVR	A
MISCELLANEOUS DEVICES						
63		FIRE/SMOKE DAMPER	BY OTHERS	BY OTHERS		
19		WATERFLOW SWITCH	BY OTHERS	BY OTHERS		Z
19		TAMPER SWITCH	BY OTHERS	BY OTHERS		Z
148		JUNCTION BOX	BY OTHERS	BY OTHERS		
4		END-OF-LINE RESISTOR 6.8K (EO)	SIMPLEX	4081-9004		
28		END-OF-LINE RESISTOR 10K (EO)	SIMPLEX	4081-9008		
14		DOOR HOLDER 12 OR 24 VDC/AC, SEMI-FLUSH MOUNT, GREY POWDER COAT	RS/3AMES	DM1224FC		D

FIRE ALARM WIRE LEGEND				ACCEPTABLE CABLE TYPES				
				PLP	PLP P	THHN	TFFN	OUTDOOR **
CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES					
A ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60p/ft. MAX CAPACITANCE, 3 twists/ft. MINIMUM	X	X			
B RUI + COMMUNICATION	UTP SOLID	18 AWG	58p/ft. MAX CAPACITANCE, 35.5 Ω TOTAL LINE RESISTANCE	X	X			
D DOOR HOLDER	2 COND. SOLID	14 AWG		X	X	X	X	
H AUDIBLE CIRCUIT	2 COND. SOLID	14 AWG		X	X			
M IDNET	UTP SOLID	18 AWG	60p/ft. MAX TOTAL LINE CAPACITANCE	X	X			
P POWER	2 COND. SOLID	14 AWG		X	X	X	X	
R RELAY	2 COND. SOLID	14 AWG		X	X	X	X	
S AUDIO - SPEAKER	UTP SOLID	18 AWG	30p/ft. MAX CAPACITANCE RECOMMENDED	X	X			
Sr ANALOG AUDIO RISER	STP SOLID	18 AWG		X	X			
V VISUAL	2 COND. SOLID	14 AWG		X	X			
Z ZONE CIRCUIT	2 COND. SOLID	18 AWG		X	X	X	X	
CONDUIT SIZE	MAX CONDUCTOR AREA		CONDUIT SIZE	MAX CONDUCTOR AREA				
1/2"	0.122 SQ. INCH*		1-1/4"	0.586 SQ INCH*				
3/4"	0.213 SQ INCH*		1-1/2"	0.814 SQ INCH*				
1"	0.346 SQ INCH*		2"	1.542 SQ INCH*				
* 40% CONDUIT FILL PER N.E.C.				STP = SHIELDED TWISTED PAIR				

ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.

JURISDICTIONS WITHIN THE STATE MAY HAVE AMENDMENTS TO THE STATE ADOPTED CODE. CHECK WITH THE LOCAL JURISDICTION AUTHORITY FOR MORE DETAILS.
INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

OCCUPANCY TYPE(S):
R-2 RESIDENTIAL GROUP
S-2 STORAGE GROUP

SPRINKLER PROTECTION:
BUILDING IS FULLY SPRINKLERED

MODIFY EXISTING FIRE ALARM SYSTEM: PROVIDE NEW DEVICES, RELOCATE AND DEMO EXISTING DEVICES AS SHOWN ON DRAWINGS.

ALL NEW WIRING TO BE CLASS B.

THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DISCONNECTED OR TAKEN OUT OF SERVICE WITHOUT WRITTEN PERMISSION FROM THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER THE TIMING OF ANY EXISTING FIRE ALARM SYSTEM DEMO

AF = ABOVE CEILING	NFC = NATIONAL ELECTRIC CODE
AFB = ABOVE FINISHED FLOOR	NFPA = NATIONAL FIRE PROTECTION ASSOCIATION
AFJ = AUTHORITY HAVING JURISDICTION	NO = NOT IN CONTRACT
ALM = ALARM	NTP = NETWORK PROCESSING UNIT
ANN = ANNUNCIATOR	NPS = NOT TO SCALE
BAS = BUILDING MANAGEMENT SYSTEM	RA = REACTION PANEL
C = CEILING HUNG	RC = EXISTING TO REMOVE AND COVER
CD = CABLED RATING	RE = EXISTING DEVICE TO BE RELOCATED
CE = CEILING	RL = RELOCATED DEVICE
DGP = DATA GATHERING PANEL	RR = REMOVE EXISTING & REPLACE WITH NEW
ED = EXISTING TO REMAIN	SCS = STATUS COMMAND CENTER
END = END OF LINE	SC = SIGNALING LINE CIRCUIT
EPO = EMERGENCY POWER OFF	SMK = SMOKE
ER = ELEVATOR RECALL	SUPV = SUPERVISORY
FAL = FIRE ALARM INITIATOR	TCS = TRIBLEST ADDRESSABLE CONTROLLER
FACP = FIRE ALARM CONTROL PANEL	TOS = TOP OF SHAFT
FAD = FIRE ALARM TERMINAL CABINET	TRBL = TROUBLE
FPO = FURNISHED BY OTHERS	TYP = TAMPERS SWITCH
FCC = FIRE COMMAND CENTER	TYP = TYPICAL
FSD = FIRE SMOKE DAMPER	UNL = UNLESS OTHERWISE NOTED
FSDP = FIRE ALARM TAMPERS	VC = VOICE COMMAND CENTER
HT = HIGH HUMIDITY	VT = VALVE TAMPER
HT = HEATING	W = WITH
HVAC = HEATING VENTILATION & AIR CONDITIONING	WO = WITHOUT
IMS = INFORMATION MANAGEMENT SYSTEM	WF = WATERFLOOD
MAX = MAXIMUM	WI = WIRE GUARD
MIN = MINIMUM	WT = WATERPROOF
NA = NOT APPLICABLE	XP = EXPLOSION PROOF
NAC = NOTIFICATION APPLIANCE CIRCUIT	
NND = NETWORK DISPLAY UNIT	

MATCH EXISTING SEQUENCE OF OPERATION

[illegible]

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PANEL DESIGNATOR	FA = FACP (NON NETWORK)
	# = NODE NUMBER
	T# = TRANSPODER NUMBER
	TR# = NODE TRANSPODER NUMBER
	NE = MAC EXTENDER NUMBER
CIRCUIT DESIGNATOR	AB = IDNAC CIRCUIT NUMBER
	DB = DDOOR FLOOR CIRCUIT NUMBER
	FB = FIRE PHONE CIRCUIT
	HE = AUDIBLE (HORN) CIRCUIT NUMBER
	MF = IDNET LOOP NUMBER
	PF = POWER CIRCUIT NUMBER
	SH = SPEAKER CIRCUIT NUMBER
	SZ = ZONE NUMBER
DEVICE NUMBER	BRANCH / ISOLATED LOOP DESIGNATOR:
	(L#) = IDNET ISOLATED LOOP NUMBER
	(B#) = IDNAC BRANCH NUMBER
	(E#) = EPFR NUMBER BRANCH NUMBER
	(R#) = REPR# REPEATER NUMBER

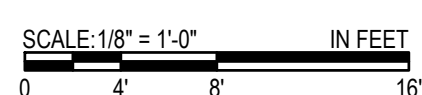
JKV MEADOWS P
JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000



DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332-621373401
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SYSTEM: FIRE ALARM SYSTEM	
SHEET:	

COVER SHEET

FA-001



ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.

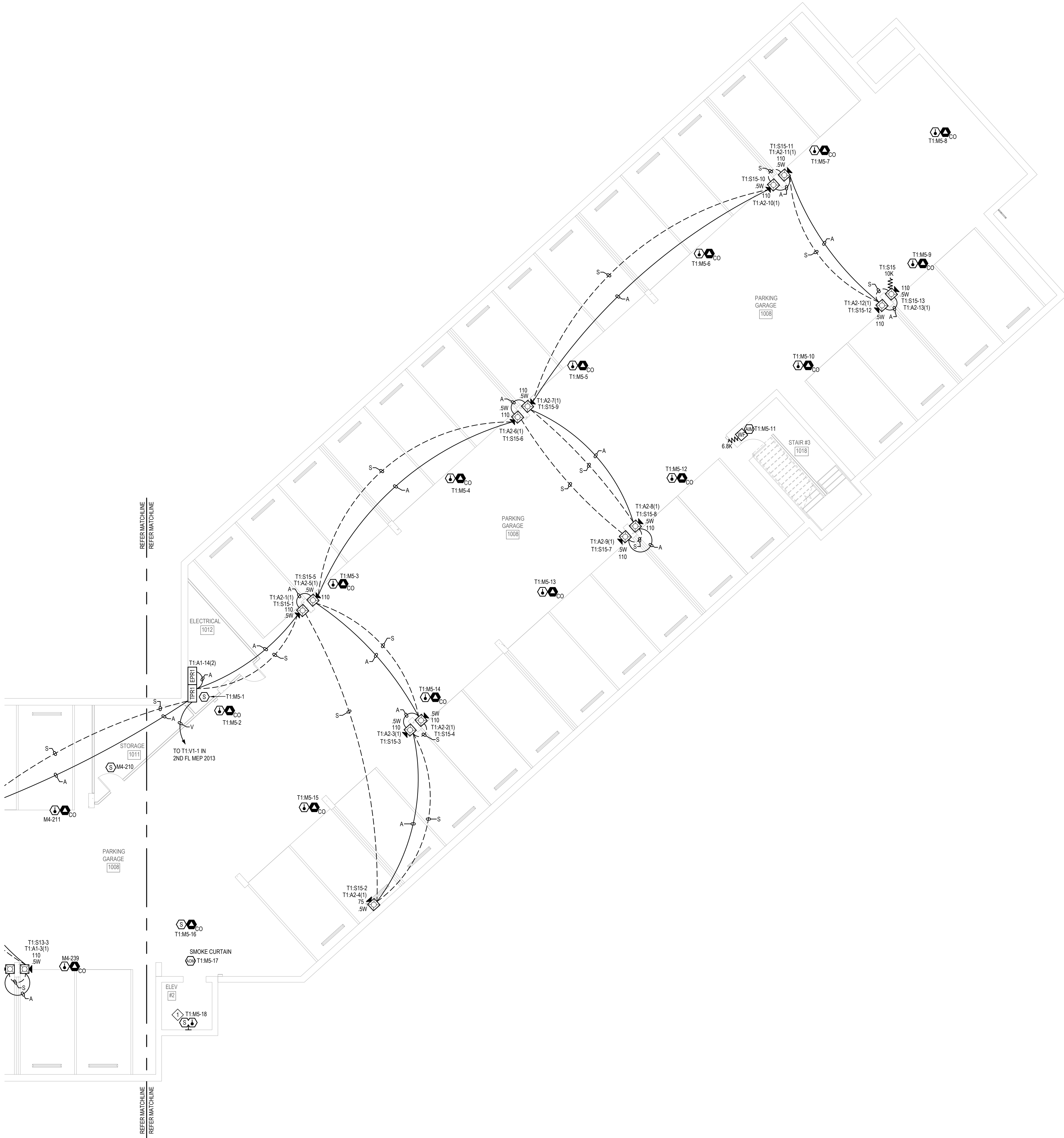
FA-101

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30" x 42" - Arch E Size



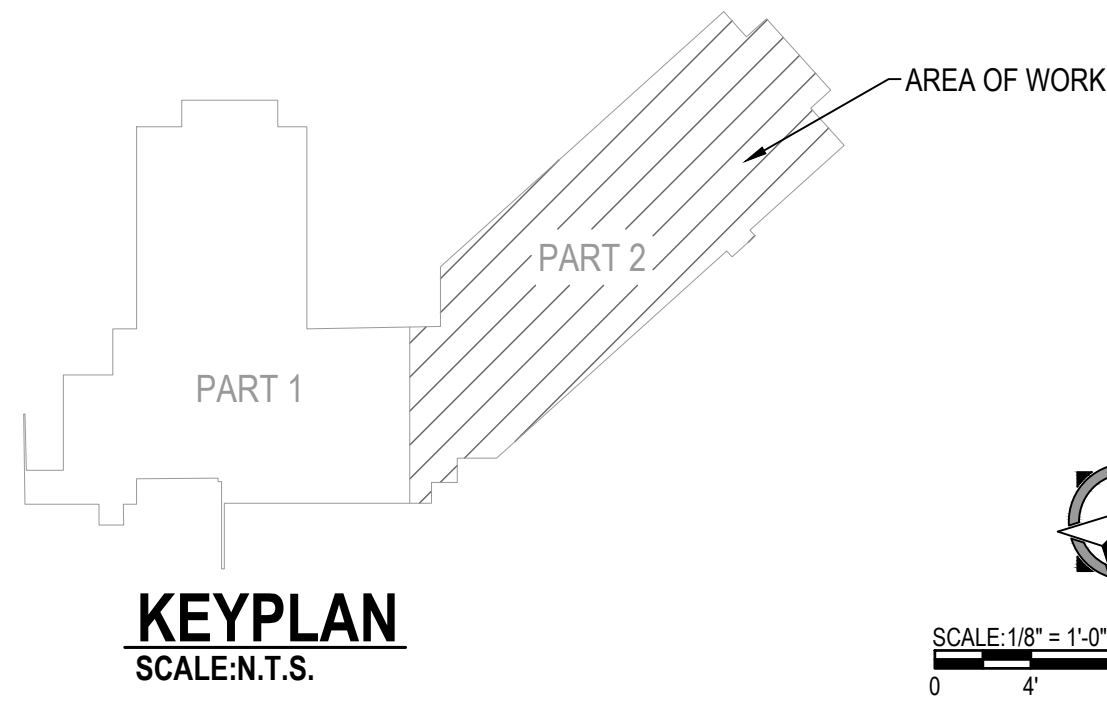
DEVICE PLACEMENT PLAN - GARAGE FLOOR PART 2 OF 2
SCALE: 1/8" = 1'-0"

FIRE ALARM SYMBOL LEGEND

QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
PANELS & ANNUNCIATORS						
1	TPR	410ES TRANSPONDER FIRE ALARM LOCAL MODE TRANSPONDER PANEL, 120 VAC	SIMPLEX	4100-9601	SIMPLEX CABINET	N/A
4	NACP	4009 IDNET NAC EXTENDER PANEL, 120 VAC, BEIGE	SIMPLEX	4009-9201	SIMPLEX CABINET	N/A
1	EPRA	4009 TRUEALERT ADDRESSABLE IDNAC REPEATER, 120/240 VAC, PLATINUM	SIMPLEX	4009-9601	SIMPLEX CABINET	N/A
1	FAA	SERIAL LCD ANNUNCIATOR	SIMPLEX	4603-9101	6-GANG BOX 3-1/2"D	B P
INITIATING DEVICES						
104	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
30	CO	ADDRESSABLE STANDARD HEAT SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9733 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
16	CO	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9714 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
173	SB	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M
27	CO	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9773 BASE	4" OCT, 1-1/2" D	M
3	CO	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
2	CO	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE WALL MOUNT	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
15	F	ADDRESSABLE DOUBLE ACTION MANUAL PUSH/PULL STATION	SIMPLEX	4099-9006	4" SQ, 2-1/8" D W/ SINGLE GANG COVER	M
MODULES AND RELAYS						
40	IM	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	SINGLE GANG 2-1/2" D W/COVER	M Z
48	IAM	RELAY IAM	SIMPLEX	4090-9002	4" SQ, 2-1/8" D W/ DBL GANG COVER	M R
25	IM	TRACK MOUNTED SINGLE RELAY DPDT W/ ENCLOSURE, APOLLO AMERICA INC 1W-201C	SIMPLEX	2088-9010	TRACK MOUNTED	R
16	TC	TEMPORAL CODE 4 MODULE	SIMPLEX	4905-9635	4" SQ, 2-1/8" D	M V
NOTIFICATION APPLIANCES						
69	#	ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, CLEAR LENS, FIRE	SIMPLEX	4906-9254	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
33	#	ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	4906-9251	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
2	#	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VO-APPLC	4" SQ, 1-1/2" D	A
2	#	ADDRESSABLE MULTI, HIGH-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VOH-APPLC	4" SQ, 1-1/2" D	A
1	#	ADDRESSABLE MULTI-CANDELA WEATHER-PROOF HORN/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49VOC-CWF	4" SQ, 1-1/2" D	A
MISCELLANEOUS DEVICES						
63	#	FIRE/SMOKE DAMPER	BY OTHERS	BY OTHERS		
19	#	WATERFLOW SWITCH	BY OTHERS	BY OTHERS		Z
19	#	TAMPER SWITCH	BY OTHERS	BY OTHERS		Z
148	#	JUNCTION BOX	BY OTHERS	BY OTHERS		
40	#	END-OF-LINE RESISTOR 6.8K (EOL)	SIMPLEX	4081-9004		
28	#	END-OF-LINE RESISTOR 10K (EOL)	SIMPLEX	4081-9008		
14	#	DOOR HOLDER 12 OR 24VDC/AC, SEMI-FLUSH MOUNT, GREY POWDER COAT	RSG/AMMES	DH1224FPC		D

FIRE ALARM WIRE LEGEND

CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	ACCEPTABLE CABLE TYPES				
				FLP	THN	TFN	OUTDOOR	C.L.
A ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60pF/ft. MAX CAPACITANCE; 3 twists/ft. MINIMUM	X	X			
B RUI + COMMUNICATION	UTP SOLID	18 AWG	58pF/ft. MAX CAPACITANCE; 35.5 Ω TOTAL LINE RESISTANCE	X	X			
D DOOR HOLDER	2 COND. SOLID	14 AWG		X	X	X		
H AUDIBLE CIRCUIT	2 COND. SOLID	14 AWG		X	X			
M IDNET	UTP SOLID	18 AWG	60pF MAX TOTAL LINE CAPACITANCE	X	X			
P POWER	2 COND. SOLID	14 AWG		X	X	X	X	
R RELAY	2 COND. SOLID	14 AWG		X	X	X		
S AUDIO - SPEAKER	UTP SOLID	18 AWG	30pF/ft. MAX CAPACITANCE RECOMMENDED	X	X			
Sr ANALOG AUDIO RISER	STP SOLID	18 AWG		X	X			
V VISUAL	2 COND. SOLID	14 AWG		X	X			
Z ZONE CIRCUIT	2 COND. SOLID	18 AWG		X	X	X	X	
CONDUIT SIZE				CONDUIT SIZE				
MAX CONDUCTOR AREA				MAX CONDUCTOR AREA				
1/4"				1/4"				
3/4"				3/4"				
1"				1"				
40% CONDUIT FILL PER N.E.C.				STP = SHIELDED TWISTED PAIR				
ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.								



GENERAL NOTES:

- ALL CEILING ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
- TAP ALL SPEAKERS AT 0.5W UNLESS NOTED OTHERWISE.
- SET ALL SPEAKER VOLTAGE JUMPERS TO THE 70V SETTING.
- ALL NOTIFICATION APPLIANCE CANDELA INTENSITY PLUS SHALL RETAIN THEIR FACTORY SETTING OF "FACP" UNLESS OTHERWISE DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
- DO NOT CHANGE DEFAULT APPLIANCE CONFIGURATION SWITCH SETTINGS ON ADDRESSABLE AV DEVICES (CFG1). REFER TO DEVICE DETAILS AND INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
- THE DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH CIRCUIT THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM. CONSULT WITH A JOHNSON CONTROLS TECHNICIAN BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.

KEYNOTES:

- INSTALL SMOKE/HEAT DETECTOR WITHIN 24" OF SPRINKLER HEAD IN ELEVATOR PIT.
- PROVIDE 120VAC POWER (BY OTHERS) TO RELAY.
- DEVICE TO ACTIVATE ON SPRINKLER WATERFLOW ACTIVATION. CONFIRM LOCATION REQUIREMENTS WITH FIRE DEPARTMENT BEFORE INSTALLATION.
- FIELD VERIFY FINAL LOCATION.
- SMOKE/HEAT DETECTOR TO BE LOCATED IN TOP OF ELEVATOR SHAFT WITHIN 2' OF SPRINKLER HEAD.
- POWER TO BE REMOVED FROM DOOR HOLD OPEN DEVICES THROUGH PANEL PROGRAMMING AFTER 5 MINUTES OF AC POWER LOSS.



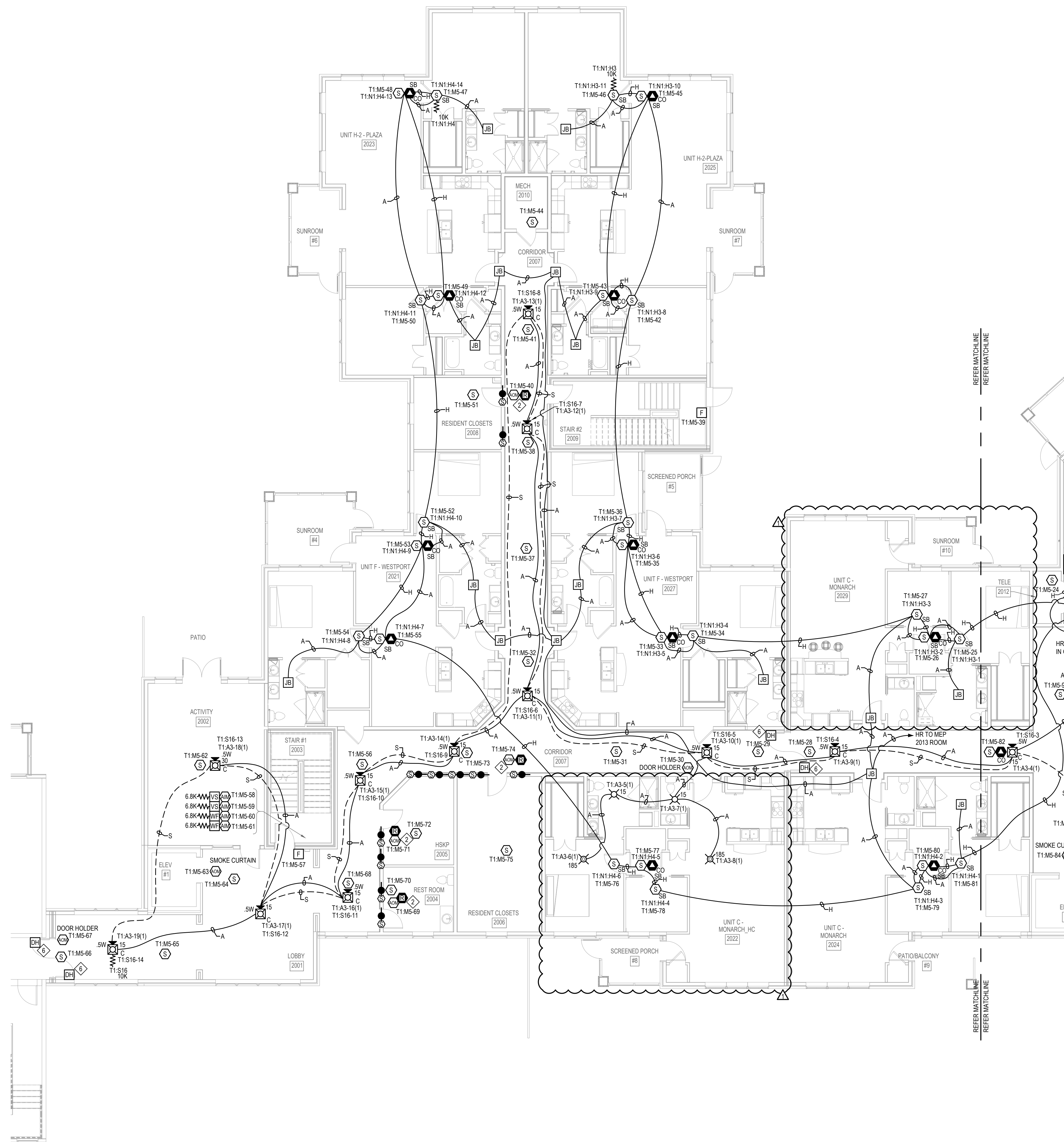
JKV MEADOWS PHASE 2 FIRE ALARM

JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000

ISSUE NO.	DATE	BY	DESCRIPTION
1	12/26/21	JMC	ISSUED FOR CONSTRUCTION

REVISION 1	
DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332 621373401
SYSTEM:	
FIRE ALARM SYSTEM	
SHEET:	
DEVICE PLACEMENT PLAN - GARAGE FLOOR PART 2 OF 2	

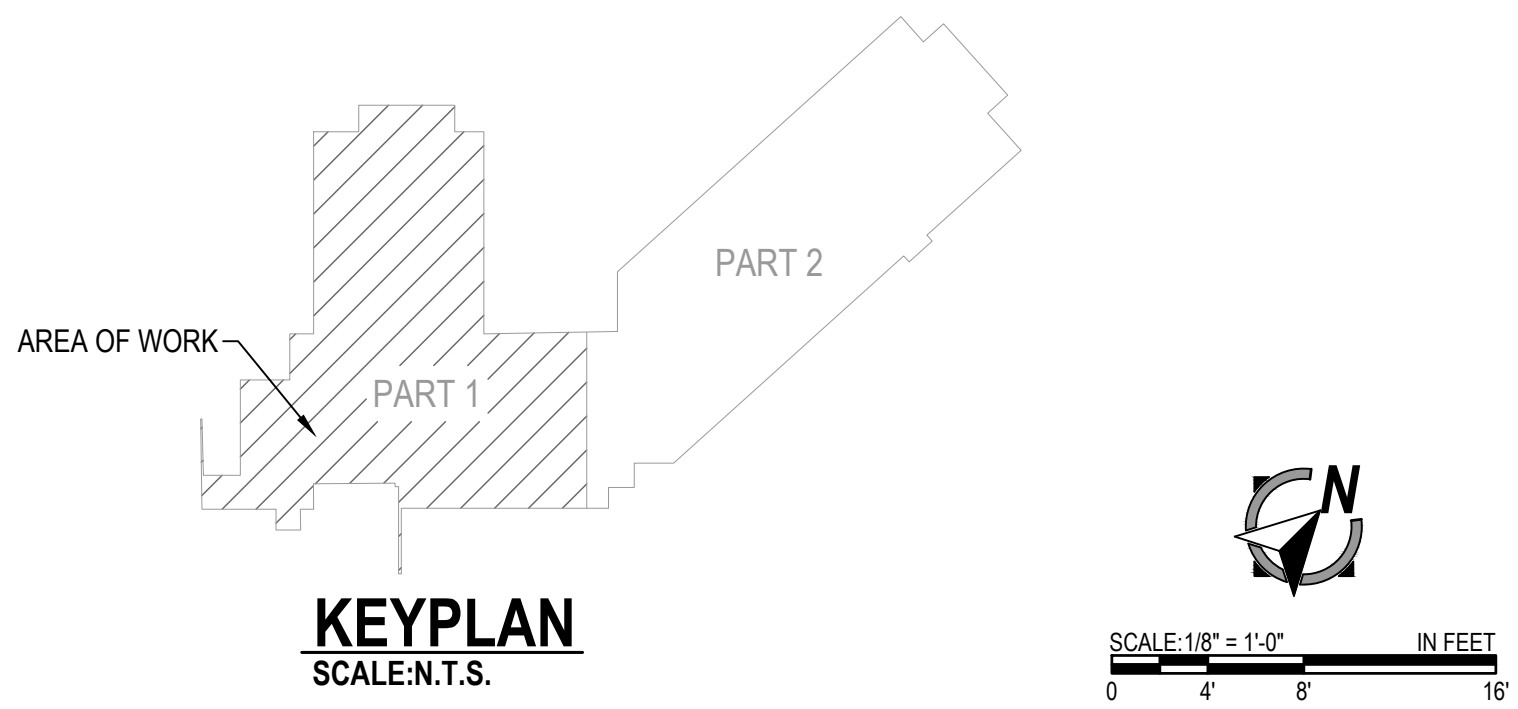
FA-102



QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
PANELS & ANNUNCIATORS						
1		410E5 TRANSPONDER FIRE ALARM LOCAL MODE TRANSPONDER PANEL, 120 VAC	SIMPLEX	4100-9601	SIMPLEX CABINET	N/A
4		4009 IDNET NAC EXTENDER PANEL, 120 VAC, BEIGE	SIMPLEX	4009-9201	SIMPLEX CABINET	N/A
1		4009 TRUALERT ADDRESSABLE IDNAC REPEATER, 120/240 VAC, PLATINUM	SIMPLEX	4009-9601	SIMPLEX CABINET	N/A
1		SERIAL LCD ANNUNCIATOR	SIMPLEX	4603-9101	6-GANG BOX 3-1/2"D	B/P
INITIATING DEVICES						
104		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
30		ADDRESSABLE STANDARD HEAT SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9733 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
16		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9714 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
173		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520HZ SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M
17		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO W/ 520HZ SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9773 BASE	4" OCT, 1-1/2" D	M
3		ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
2		ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE WALL MOUNT	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
15		ADDRESSABLE DOUBLE ACTION MANUAL PUSH/PULL STATION	SIMPLEX	4099-9006	4" SQ, 2-1/8" D W/ SINGLE GANG COVER	M
MODULES AND RELAYS						
40		INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	SINGLE GANGS 2-1/2" D W/COVER	M Z
48		RELAY IAM	SIMPLEX	4090-9002	4" SQ, 2-1/8" D W/ DBL. GANG COVER	M R
3		TRACK MOUNTED SINGLE RELAY DPDT W/ ENCLOSURE, APOLLO AMERICA INC MR-201C	SIMPLEX	2088-010	TRACK MOUNTED	R
16		TEMPORAL CODE 4 MODULE	SIMPLEX	4095-9635	4" SQ, 2-1/8" D	M V
NOTIFICATION APPLIANCES						
69		ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, CLEAR LENS, FIRE	SIMPLEX	4906-9254	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
33		ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	4906-9251	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
2		ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLANCE ONLY, CLEAR LENS	SIMPLEX	49VO-APPLC	4" SQ, 1-1/2" D	A
2		ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49VO-CWF	4" SQ, 1-1/2" D	A
2		ADDRESSABLE MULTI, HIGH-CANDELA STROBE, CEILING MOUNT, APPLANCE ONLY, CLEAR LENS	SIMPLEX	49VO-APPLC	4" SQ, 1-1/2" D	A
2		ADDRESSABLE MULTI, HIGH-CANDELA STROBE, CEILING MOUNT, APPLANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49VO-CWF	4" SQ, 1-1/2" D	A
2		ADDRESSABLE MULTI-CANDELA WEATHERPROOF HORN/STROBE WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49AV-WRFO	49WPB-AV/OWR	A
MISCELLANEOUS DEVICES						
63		FIRE/SMOKE DAMPER	BY OTHERS	BY OTHERS		
19		WATERFLOW SWITCH	BY OTHERS	BY OTHERS		Z
19		TAMPER SWITCH	BY OTHERS	BY OTHERS		Z
148		JUNCTION BOX	BY OTHERS	BY OTHERS		
40		END-OF-LINE RESISTOR 6.8K (EOL)	SIMPLEX	4081-9004		
28		END-OF-LINE RESISTOR 10K (EOL)	SIMPLEX	4081-9008		
14		DOOR HOLDER, 12 OR 24VDC/AC, SEMI-FULUSH MOUNT, GREY POWDER COAT	RS&A/AMES	DH1224FC		D

CIRCUIT DESCRIPTION		CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES		FPLR	FLTP	THIN	THFN	OUTDO	C.I.
A	ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60pft. MAX CAPACITANCE; 3 twists/ft. MINIMUM		X	X				
B	RJ45 + COMMUNICATION	UTP SOLID	18 AWG	58pft. MAX CAPACITANCE; 35.5 Ω TOTAL LINE RESISTANCE		X	X				
D	DOOR HOLDER	2 COND. SOLID	14 AWG			X	X	X	X		
H	AUDIBLE CIRCUIT	2 COND. SOLID	14 AWG			X	X				
M	ID NET	UTP SOLID	18 AWG	60pft. MAX TOTAL LINE CAPACITANCE		X	X				
P	POWER	2 COND. SOLID	14 AWG			X	X	X	X		
R	RELAY	2 COND. SOLID	14 AWG			X	X	X	X		
S	AUDIO - SPEAKER	UTP SOLID	18 AWG	30pft. MAX CAPACITANCE RECOMMENDED		X	X				
Sr	ANALOG AUDIO RISER	STP SOLID	18 AWG			X	X				
V	VISUAL	2 COND. SOLID	14 AWG			X	X				
Z	ZONE CIRCUIT	2 COND. SOLID	14 AWG			X	X	X	X		
CONDUIT SIZE		MAX CONDUCTOR AREA		CONDUIT SIZE		MAX CONDUCTOR AREA					
1/2"		0.123 SQ. INCH*		1-1/4"		0.588 SQ. INCH*					
3/4"		0.213 SQ. INCH*		1-1/2"		0.814 SQ. INCH*					
1"		0.346 SQ. INCH*		2"		1.342 SQ. INCH*					
* .40% CONDUIT FILL PER N.E.C.				STP = SHIELDED TWISTED PAIR							

ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRITICAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.



- ### GENERAL NOTES:
1. ALL CEILING ARE ASSUMED TO BE 10' F.F. SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
 2. TAP ALL SPEAKERS AT 5W UNLESS NOTED OTHERWISE.
 3. SET SPEAKER VOLUME JUMPERS TO THE 70% SETTING.
 4. ALL NOTIFICATION APPLANCE CANDLELITY INSTANTLY PLUGS SHALL RETAIN THEIR FACTORY SETTING OF "TAPC" UNLESS OTHERWISE DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
 5. DO NOT CHANGE DEFAULT APPLANCE CONFIGURATION SWITCH SETTINGS ON ADDRESSABLE AV DEVICES (CP51). REFER TO DEVICE DETAILS AND INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
 6. IF A DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH CIRCUIT THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM CODE WITHIN WHICH CONTROL TECHNIQUE BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.
- ### KEYNOTES:
1. INSTALL SMOKEHEAT DETECTOR WITHIN 24" OF SPRINKLER HEAD IN ELEVATOR SHAFT.
 2. PROVIDE 120VAC POWER (BY OTHERS) TO RELAY.
 3. DEVICE TO ACTIVATE ON SPRINKLER WATERFLOW ACTIVATION. CONFIRM LOCATION REQUIREMENTS WITH FIRE DEPARTMENT BEFORE INSTALLATION.
 4. FIELD VERIFY FIELD LOCATION.
 5. SMOKEHEAT DETECTOR TO BE LOCATED IN TOP OF ELEVATOR SHAFT WITHIN OF SPRINKLER HEAD.
 6. POWER TO BE REMOVED FROM DOOR HOOD OPEN DEVICES THOUGH PANEL PROGRAMMING AFTER 5 MINUTES OF AC POWER LOSS.

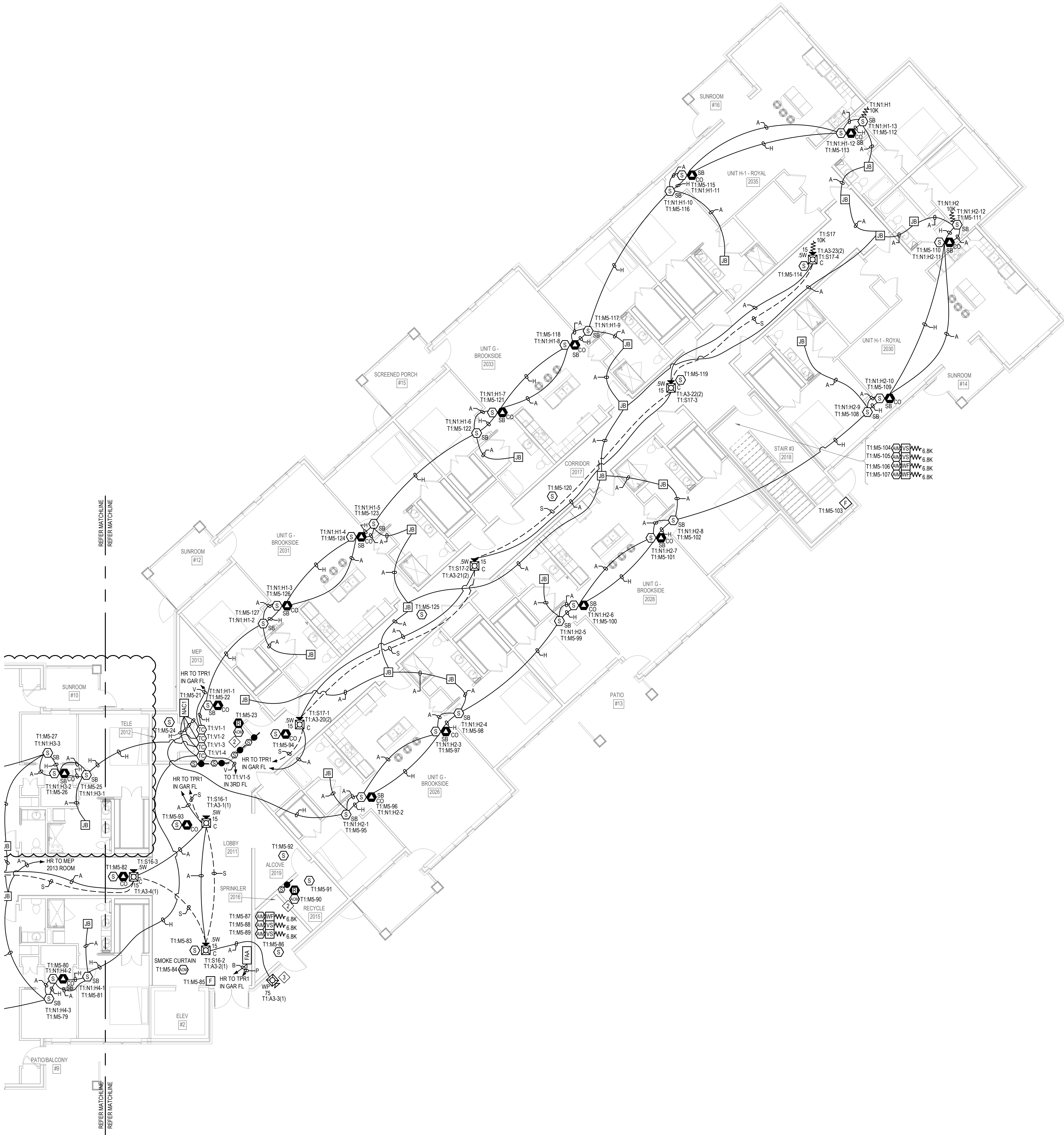
FILE PATH: C:\Users\jacob@johnsoncontrols\Documents\Projects\Johnson Controls\FA-104.dwg

LAST SAVED BY: JACOBARD

LAST PRINTED: 12/26/2021 3:02:02 PM

30" x 42" - inch E Size

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DEVICE PLACEMENT PLAN - SECOND FLOOR PART 2 OF 2
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL CEILING ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
2. TAP ALL SPEAKERS AT 0.5W UNLESS NOTED OTHERWISE.
3. SET ALL SPEAKER VOLTAGE JUMPERS TO THE 70V SETTING.
4. ALL NOTIFICATION APPLIANCE CANDLE INTENSITY PLUS SHALL RETAIN THEIR FACTORY SETTING OF "FACP" UNLESS OTHERWISE DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
5. DO NOT CHANGE DEFAULT APPLIANCE CONFIGURATION SWITCH SETTINGS ON ADDRESSABLE AV DEVICES (CFG1). REFER TO DEVICE DETAILS AND INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
6. THE DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH CIRCUIT THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM. CONSULT WITH A JOHNSON CONTROLS TECHNICIAN BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.

KEYNOTES:

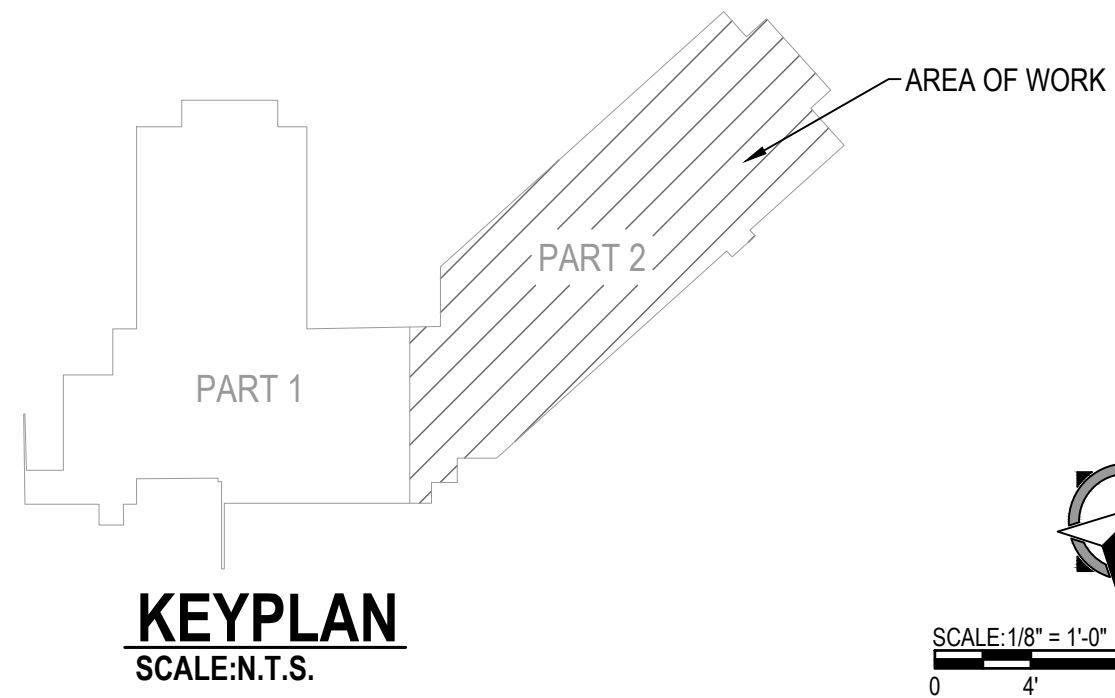
1. INSTALL SMOKE/HEAT DETECTOR WITHIN 24" OF SPRINKLER HEAD IN ELEVATOR PIT.
2. PROVIDE 120VAC POWER (BY OTHERS) TO RELAY.
3. DEVICE TO ACTIVATE ON SPRINKLER WATERFLOW ACTIVATION. CONFIRM LOCATION REQUIREMENTS WITH FIRE DEPARTMENT BEFORE INSTALLATION.
4. FIELD VERIFY FINAL LOCATION.
5. SMOKE/HEAT DETECTOR TO BE LOCATED IN TOP OF ELEVATOR SHAFT WITHIN 2' OF SPRINKLER HEAD.
6. POWER TO BE REMOVED FROM DOOR HOLD OPEN DEVICES THROUGH PANEL PROGRAMMING AFTER 5 MINUTES OF AC POWER LOSS.

FIRE ALARM SYMBOL LEGEND

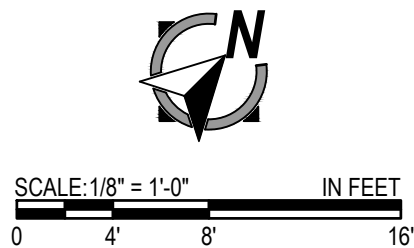
QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
PANELS & ANNUNCIATORS						
1	TPR	4100ES TRANSDUCER FIRE ALARM LOCAL MODE TRANSDUCER PANEL, 120 VAC	SIMPLEX	4100-9601	SIMPLEX CABINET	N/A
4	NAC	4009 IDNET NAC EXTENDER PANEL, 120 VAC, BEIGE	SIMPLEX	4009-9201	SIMPLEX CABINET	N/A
1	EPR	4009 TRUEALERT ADDRESSABLE IDNAC REPEATER, 120/240 VAC, PLATINUM	SIMPLEX	4009-9601	SIMPLEX CABINET	N/A
1	FAA	SERIAL LCD ANNUNCIATOR	SIMPLEX	4603-9101	6-GANG BOX 3-1/2"D	B P
INITIATING DEVICES						
104	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M Z
30	S	ADDRESSABLE STANDARD HEAT SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9733 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
16	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9714 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
173	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M H
27	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9773 BASE	4" OCT, 1-1/2" D	M H
3	S	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
2	S	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
15	F	ADDRESSABLE DOUBLE ACTION MANUAL PUSH/PULL STATION	SIMPLEX	4099-9006	4" SQ, 2-1/8" D W/ SINGLE GANG COVER	M
MODULES AND RELAYS						
40	M	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	SINGLE GANG 2-1/2" D W/COVER	M Z
48	R	RELAY IAM	SIMPLEX	4090-9002	4" SQ, 2-1/8" D W/ DBL GANG COVER	M R
25	R	TRACK MOUNTED SINGLE RELAY DPDT W/ ENCLOSURE, APOLLO AMERICA INC MR-201C	SIMPLEX	2088-9010	TRACK MOUNTED	R
16	T	TEMPORAL CODE 4 MODULE	SIMPLEX	4905-9835	4" SQ, 2-1/8" D	M V
NOTIFICATION APPLIANCES						
69	W	ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, CLEAR LENS, FIRE	SIMPLEX	4906-9254	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
33	W	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	4906-9251	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
2	W	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VOC-APPLC	4" SQ, 1-1/2" D	A
2	W	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VOC-CWF	4" SQ, 1-1/2" D	A
1	W	ADDRESSABLE MULTI-CANDELA WEATHERPROOF HORN/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49VOC-APPLC 49VOC-CWF	4" SQ, 1-1/2" D	A
MISCELLANEOUS DEVICES						
63	W	FIRE/SMOKE DAMPER	BY OTHERS	BY OTHERS		
19	W	WATERFLOW SWITCH	BY OTHERS	BY OTHERS		Z
19	W	TAMPER SWITCH	BY OTHERS	BY OTHERS		Z
148	J	JUNCTION BOX	BY OTHERS	BY OTHERS		
40	W	END-OF-LINE RESISTOR 6.8K (EOL)	SIMPLEX	4081-9004		
28	W	END-OF-LINE RESISTOR 10K (EOL)	SIMPLEX	4081-9008		
14	D	DOOR HOLDER, 12 OR 24VDC/AC, SEMI-FLUSH MOUNT, GREY POWDER COAT	RSG/AMES	DH1224FPC		D

FIRE ALARM WIRE LEGEND

CIRCUIT DESCRIPTION			CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES			PLR	PLD	THIN	THIN	THIN	OUTDOOR	CL	
A	ADDRESSABLE NOTIFICATION		UTP SOLID	14 AWG	60pF/ft. MAX CAPACITANCE; 3 twists/ft. MINIMUM			X	X						
B	RUI - COMMUNICATION		UTP SOLID	18 AWG	58pF/ft. MAX CAPACITANCE; 35.5 Ω TOTAL LINE RESISTANCE			X	X						
D	DOOR HOLDER		2 COND. SOLID	14 AWG				X	X	X	X				
H	AUDIBLE CIRCUIT		2 COND. SOLID	14 AWG				X	X						
M	IDNET		UTP SOLID	18 AWG	60pF MAX TOTAL LINE CAPACITANCE			X	X						
P	POWER		2 COND. SOLID	14 AWG				X	X	X	X				
R	RELAY		2 COND. SOLID	14 AWG				X	X	X	X				
S	AUDIO - SPEAKER		UTP SOLID	18 AWG	30pF/ft. MAX CAPACITANCE RECOMMENDED			X	X						
Sr	ANALOG AUDIO RISER		STP SOLID	18 AWG				X	X						
V	VISUAL		2 COND. SOLID	14 AWG				X	X						
Z	ZONE CIRCUIT		2 COND. SOLID	18 AWG				X	X	X	X				
CONDUIT SIZE				MAX CONDUCTOR AREA		CONDUIT SIZE			MAX CONDUCTOR AREA						
12"				0.122 SQ. INCH"		1-1/4"			0.588 SQ INCH"						
3/4"				0.213 SQ INCH"		1-1/2"			0.814 SQ INCH"						
1"				0.346 SQ INCH"		2"			1.342 SQ INCH"						
40% CONDUIT FILL PER N.E.C.														STP = SHIELDED TWISTED PAIR	
ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.															



KEYPLAN
SCALE: 1/8" = 1'-0"



JKV MEADOWS PHASE 2 FIRE ALARM

JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000

REVISION 1

DRAWN BY: GOPINATH M G
CHECKED BY: DIRK SAMUEL
ISSUE DATE: 9/3/21
JOB #: 332431326
PROJECT #: 332 621373401
SYSTEM: JOHNSON CONTROLS # 2021
FIRE ALARM SYSTEM

SHEET:
DEVICE PLACEMENT PLAN - SECOND FLOOR PART 2 OF 2

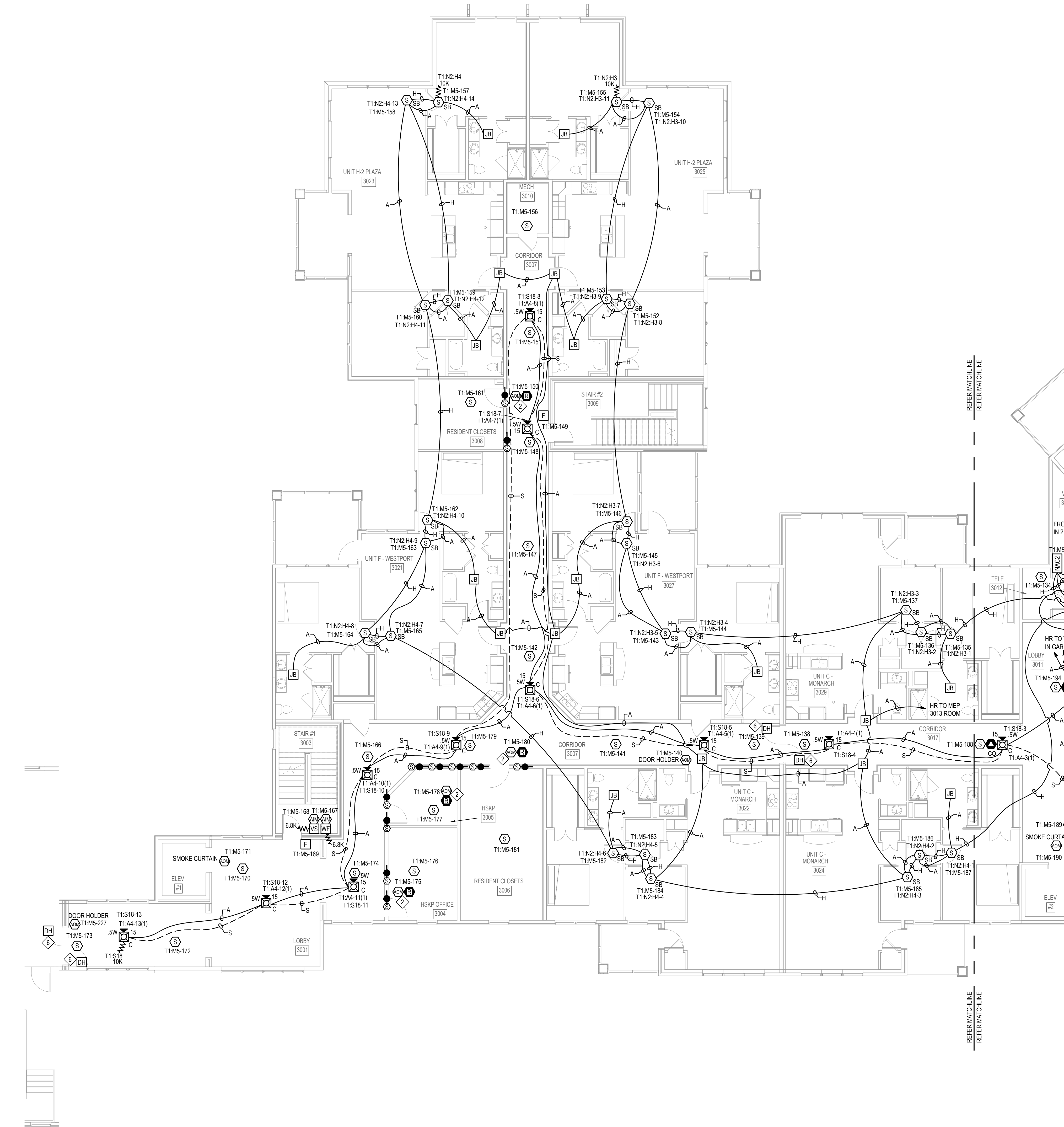
FA-104

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LAST PRINTED: 12/26/2021 8:08:13 PM

30" x 42" - inch 1/2 Size



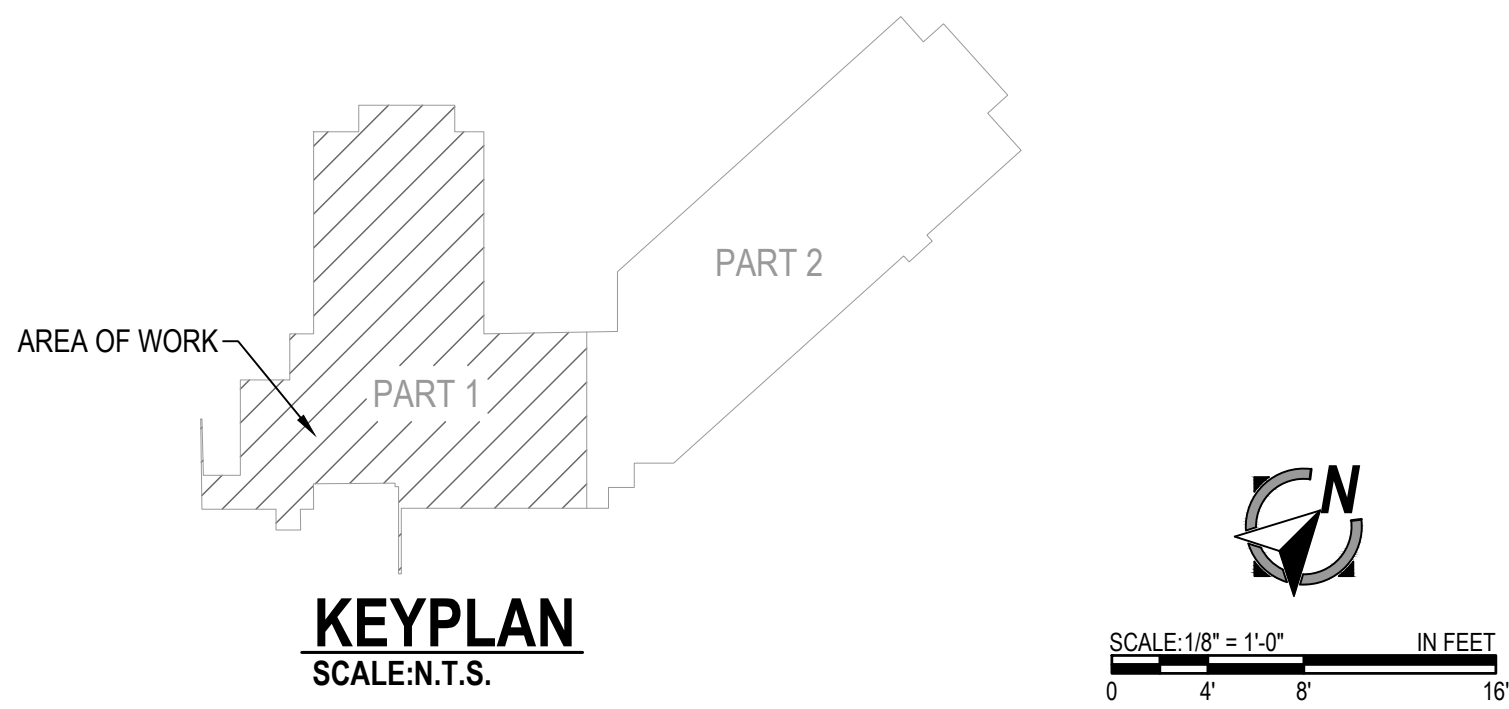
DEVICE PLACEMENT PLAN - THIRD FLOOR PART 1 OF 2
SCALE: 1/8" = 1'-0"

FIRE ALARM SYMBOL LEGEND

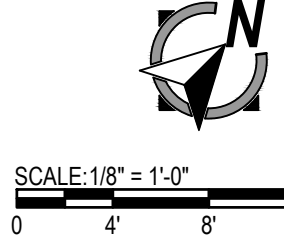
QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
PANELS & ANNUNCIATORS						
1	TPPR	4100ES TRANSPONDER FIRE ALARM LOCAL MODE TRANSPONDER PANEL, 120 VAC	SIMPLEX	4100-9601	SIMPLEX CABINET	N/A
4	NACH	4009 IDNET NAC EXTENDER PANEL, 120 VAC, BEIGE	SIMPLEX	4009-9201	SIMPLEX CABINET	N/A
1	EPRR	4008 TRUEALERT ADDRESSABLE IDNAC REPEATER, 120/240 VAC, PLATINUM	SIMPLEX	4008-9601	SIMPLEX CABINET	N/A
1	FAA	SERIAL LCD ANNUNCIATOR	SIMPLEX	4603-9101	6-GANG BOX 3-1/2"D	B P
INITIATING DEVICES						
104	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9702 BASE	4" OCT, 1-1/2" D	M
30	CO	ADDRESSABLE STANDARD HEAT SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9733 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
16	CO	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9714 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
173	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M H
27	CO	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M H
3	CO	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9702 BASE	4" OCT, 1-1/2" D	M
2	CO	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9702 BASE	4" OCT, 1-1/2" D	M
15	F	ADDRESSABLE DOUBLE ACTION MANUAL PUSH/PULL STATION	SIMPLEX	4099-9006	4" SQ, 2-1/8" D W/ SINGLE GANG COVER	M
MODULES AND RELAYS						
40	IM	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	SINGLE GANG 2-1/2" D W/COVER	M Z
48	IAM	RELAY IAM	SIMPLEX	4090-9002	4" SQ, 2-1/8" D W/ DBL. GANG COVER	M R
25	TR	TRACK MOUNTED SINGLE RELAY DPDT W/ ENCLOSURE, APOLLO AMERICA INC MR-201/C	SIMPLEX	2088-6010	TRACK MOUNTED	R
16	TM	TEMPORAL CODE 4 MODULE	SIMPLEX	4905-9635	4" SQ, 2-1/8" D	M V
NOTIFICATION APPLIANCES						
69	#	ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, CLEAR LENS, FIRE	SIMPLEX	4906-9254	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
33	#	ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	4906-9251	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
2	#	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49VOC-APPLC	4" SQ, 1-1/2" D	A
2	#	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49VOC-APPLC	4" SQ, 1-1/2" D	A
1	#	ADDRESSABLE MULTI-CANDELA WEATHERPROOF HORN/STROBE WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49VOC-CWF	4" SQ, 1-1/2" D	A
MISCELLANEOUS DEVICES						
63	SD	FIRE/SMOKE DAMPER	BY OTHERS	BY OTHERS		
19	WF	WATERFLOW SWITCH	BY OTHERS	BY OTHERS		Z
10	VS	TAMPER SWITCH	BY OTHERS	BY OTHERS		Z
148	JB	JUNCTION BOX	BY OTHERS	BY OTHERS		
40	WR 6.8K	END-OF-LINE RESISTOR 6.8K (EOL)	SIMPLEX	4081-9004		
28	WR 10K	END-OF-LINE RESISTOR 10K (EOL)	SIMPLEX	4081-9008		
14	DH	DOOR HOLDER 1/2 OR 240DC/AC, SEMI-FLUSH MOUNT, GREY POWDER COAT	RS&A/AMES	DH1224FPC		D

FIRE ALARM WIRE LEGEND

CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	FFLR	FFLP	THIN	TIFN	OUTDOOR *	CL
A ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60pfr. MAX CAPACITANCE; 3 wires/ft. MINIMUM	X	X				
B RUI - COMMUNICATION	UTP SOLID	18 AWG	58pfr. MAX CAPACITANCE; 35.5 Ω TOTAL LINE RESISTANCE	X	X				
D DOOR HOLDER	2 COND. SOLID	14 AWG		X	X	X	X		
H AUDIBLE CIRCUIT	2 COND. SOLID	14 AWG		X	X	X			
M IDNET	UTP SOLID	18 AWG	60pfr. MAX TOTAL LINE CAPACITANCE	X	X				
P POWER	2 COND. SOLID	14 AWG		X	X	X	X		
R RELAY	2 COND. SOLID	14 AWG		X	X	X	X		
S AUDIO - SPEAKER	UTP SOLID	18 AWG	30pfr. MAX CAPACITANCE RECOMMENDED	X	X				
Sr ANALOG AUDIO RISER	STP SOLID	18 AWG		X	X				
V VISUAL	2 COND. SOLID	14 AWG		X	X	X	X		
Z ZONE CIRCUIT	2 COND. SOLID	18 AWG		X	X	X	X		
CONDUIT SIZE		MAX CONDUCTOR AREA	CONDUIT SIZE	ACCEPTABLE CABLE TYPES					
1/2"		0.122 SQ. INCH*	1-1/4"						
3/4"		0.213 SQ. INCH*	1-1/2"						
1"		0.366 SQ. INCH*	2"						
*40% CONDUIT FILL PER N.E.C.									
ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.									



KEYPLAN
SCALE: 1/8" = 1'-0"



JKV MEADOWS PHASE 2 FIRE ALARM

JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000

REVISION 1

DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332 621373401
SYSTEM:	JOHNSON CONTROLS # 2021
SYSTEM:	FIRE ALARM SYSTEM
SHEET:	

DEVICE PLACEMENT PLAN -
THIRD FLOOR PART 1 OF 2

FA-105

DEVICE PLACEMENT PLAN - THIRD FLOOR PART 2 OF 2
SCALE: 1/8" = 1'-0"

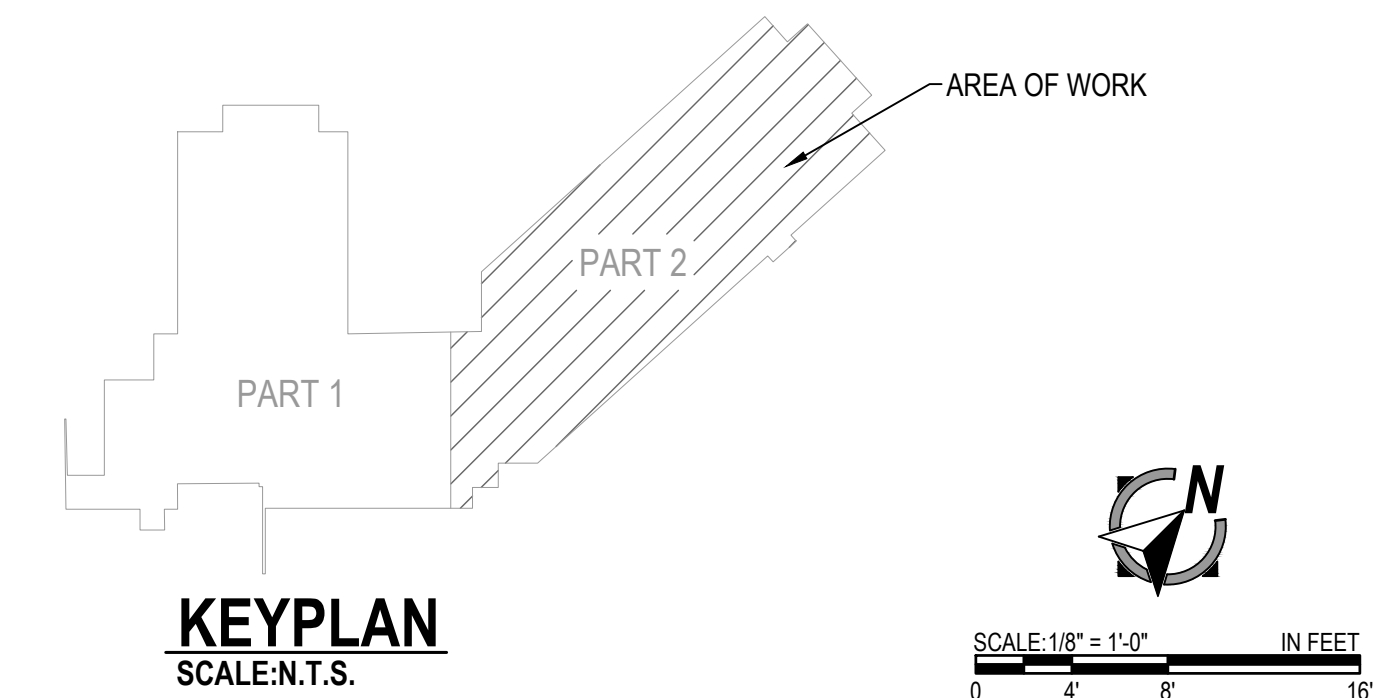
FIRE ALARM SYMBOL LEGEND

QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
PANELS & ANNUNCIATORS						
1		410ES TRANSPONDER FIRE ALARM LOCAL MODE TRANSPONDER PANEL, 120 VAC	SIMPLEX	4100-9601	SIMPLEX CABINET	N/A
4		4009 IDNET NAC EXTENDER PANEL, 120 VAC, BEIGE	SIMPLEX	4009-9201	SIMPLEX CABINET	N/A
1		4009 TRUE/ALERT ADDRESSABLE IDNAC REPEATER, 120/240 VAC, PLATINUM	SIMPLEX	4009-9601	SIMPLEX CABINET	N/A
1		SERIAL LCD ANNUNCIATOR	SIMPLEX	4603-9101	6-GANG BOX 3-1/2"D	B P
INITIATING DEVICES						
104		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
1		ADDRESSABLE STANDARD HEAT SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9715 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
16		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9714 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
173		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520HZ SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M
173		ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520HZ SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M
1		ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
2		ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE WALL MOUNT	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
15		ADDRESSABLE DOUBLE ACTION MANUAL PUSH/PULL STATION	SIMPLEX	4099-9006	4" SQ, 2-1/8" D W/ SINGLE GANG COVER	M
MODULES AND RELAYS						
40		INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	SINGLE GANG 2-1/2" D W/COVER	M Z
1		RELAY IAM	SIMPLEX	4090-9002	4" SQ, 2-1/8" D W/ DBL. GANG COVER	A R R
1		TRACK MOUNTED SINGLE RELAY DPDT W/ ENCLOSURE, APOLLO AMERICA INC MR-2011C	SIMPLEX	2088-9010	TRACK MOUNTED	M
1		TEMPORAL CODE 4 MODULE	SIMPLEX	4905-9835	4" SQ, 2-1/8" D	M V
NOTIFICATION APPLIANCES						
69		ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, CLEAR LENS, FIRE	SIMPLEX	4906-9254	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
33		ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	4906-9251	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A R A
2		ADDRESSABLE MULTI-CANDELA SPEAKER, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49V0-APPL	4" SQ, 1-1/2" D	A
2		APPLIANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49V0C-CWF		A
2		ADDRESSABLE MULTI, HIGH-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49H/CH-APPL	4" SQ, 1-1/2" D	A
1		APPLIANCE COVER, WHITE, FIRE LETTERING	SIMPLEX	49H/C-CWF		A
1		ADDRESSABLE MULTI-CANDELA WEATHERPROOF HORN/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49AV-WRFO	49WPBB-AVOWR	A
MISCELLANEOUS DEVICES						
63		FIRE/SMOKE DAMPER	BY OTHERS	BY OTHERS		
19		WATERFLOW SWITCH	BY OTHERS	BY OTHERS		Z
1		TAMPER SWITCH	BY OTHERS	BY OTHERS		Z
148		JUNCTION BOX	BY OTHERS	BY OTHERS		
40		END-OF-LINE RESISTOR 6.8K (EOI)	SIMPLEX	4081-9004		
28		END-OF-LINE RESISTOR 10K (EOI)	SIMPLEX	4081-9008		
14		DOOR HOLDER 12 OR 24VDC/AC, SEMI-FLUSH MOUNT, GREY POWDER COAT	RS/CIAMES	DH124FPC		D

FIRE ALARM WIRE LEGEND

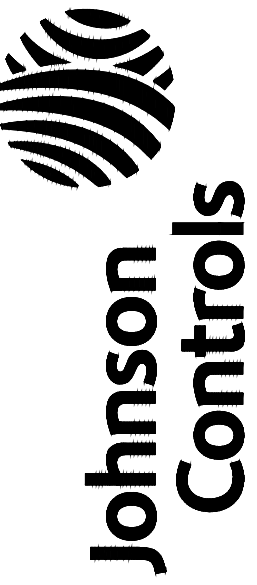
CIRCUIT DESCRIPTION		CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	FLCP	FLCP	THIN	IFTN	GUIDO	C.I.
A	ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	50pft. MAX CAPACITANCE; 3 wds/ft. MINIMUM	X	X				
B	RUI + COMMUNICATION	UTP SOLID	18 AWG	58pft. MAX CAPACITANCE, 35.5 Ω TOTAL LINE RESISTANCE	X	X				
D	DOOR HOLDER	2 COND. SOLID	14 AWG		X	X	X	X		
H	AUDIBLE CIRCUIT	2 COND. SOLID	14 AWG		X	X				
M	IDNET	UTP SOLID	18 AWG	60pft. MAX TOTAL LINE CAPACITANCE	X	X				
P	POWER	2 COND. SOLID	14 AWG		X	X	X	X		
R	RELAY	2 COND. SOLID	14 AWG		X	X	X	X		
S	AUDIO - SPEAKER	UTP SOLID	18 AWG	30pft. MAX CAPACITANCE RECOMMENDED	X	X				
Sr	ANALOG AUDIO RISER	STP SOLID	18 AWG		X	X				
V	VISUAL	2 COND. SOLID	14 AWG		X	X				
Z	ZONE CIRCUIT	2 COND. SOLID	18 AWG		X	X	X	X		
CONDUIT SIZE		MAX CONDUCTOR AREA		CONDUIT SIZE	MAX CONDUCTOR AREA					
1/2"		0.122 SQ. INCH*		1-1/4"	0.598 SQ INCH*					
3/4"		0.213 SQ INCH*		1-1/2"	0.814 SQ INCH*					
1"		0.466 SQ INCH*		2"	1.542 SQ INCH*					
* 40% CONDUIT FILL PER N.E.C.				STP = SHIELDED TWISTED PAIR						

ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURERS AND MODEL. THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.



JKV MEADOWS PHASE 2 FIRE ALARM

**JKV MEADOWS BUILDING
1820 NORTH W O BRIEN RD
LEES SUMMIT, MO 64081-0000**



DISTRICT - 332
11019 STRANG LINE ROAD
LENEXA, KS 66215
PHONE: 913-894-0010
FAX: 913-894-0020
SERVICE: 913-894-0010

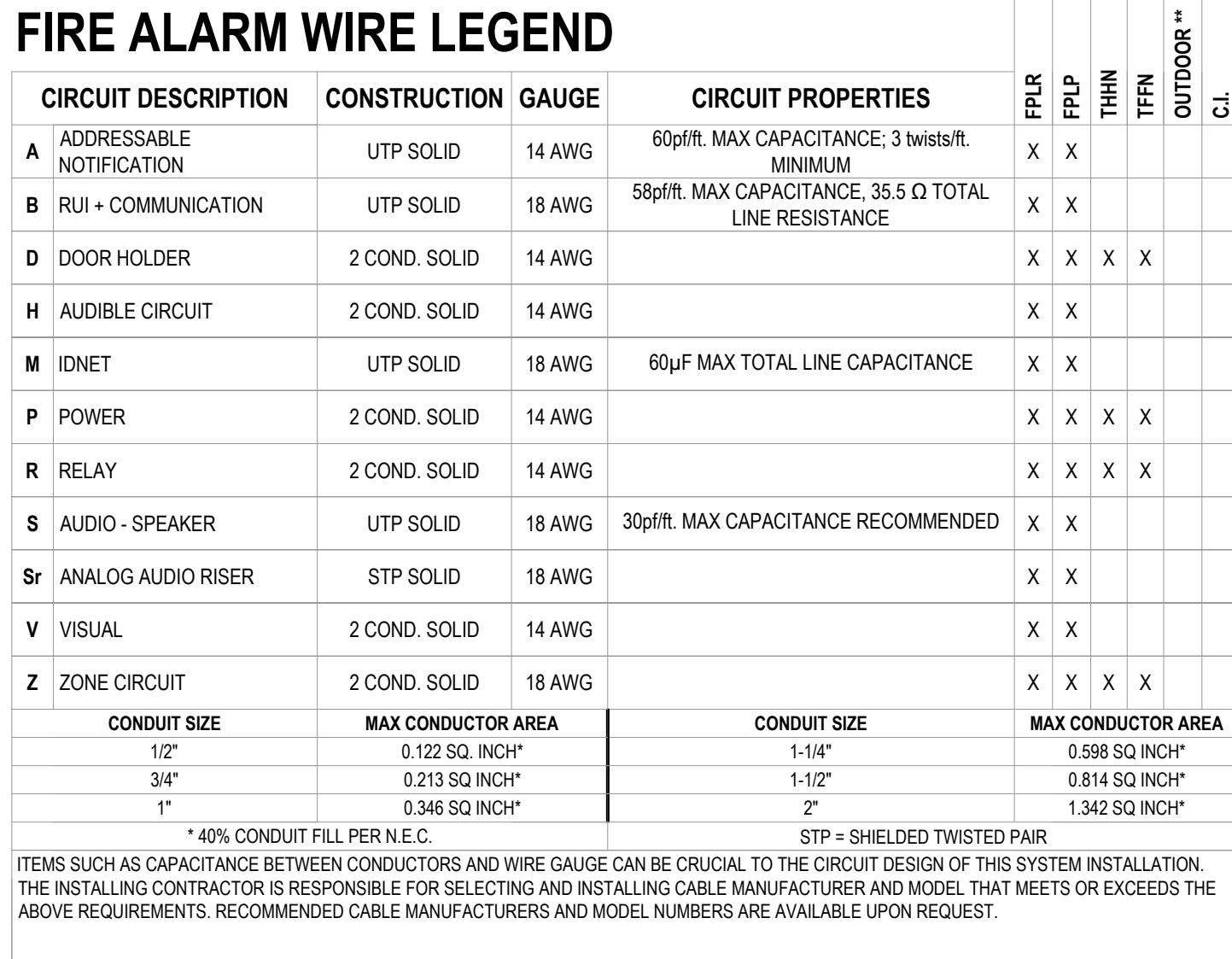


REVISION 1

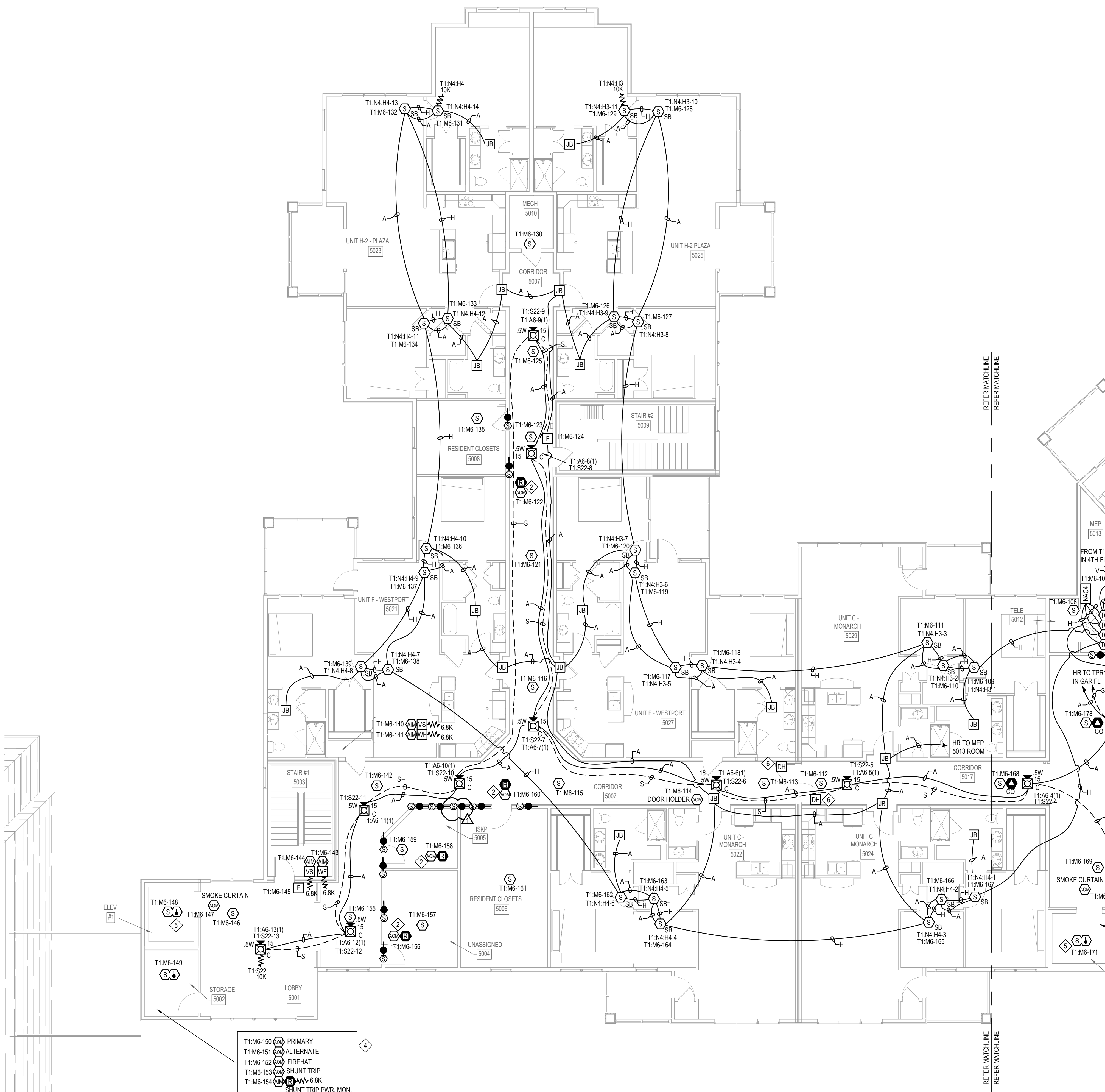
DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332.621373401
JOHNSON CONTROLS © 2021	
SYSTEM:	
FIRE ALARM SYSTEM	
SHEET:	

DEVICE PLACEMENT PLAN -
THIRD FLOOR PART 2 OF 2

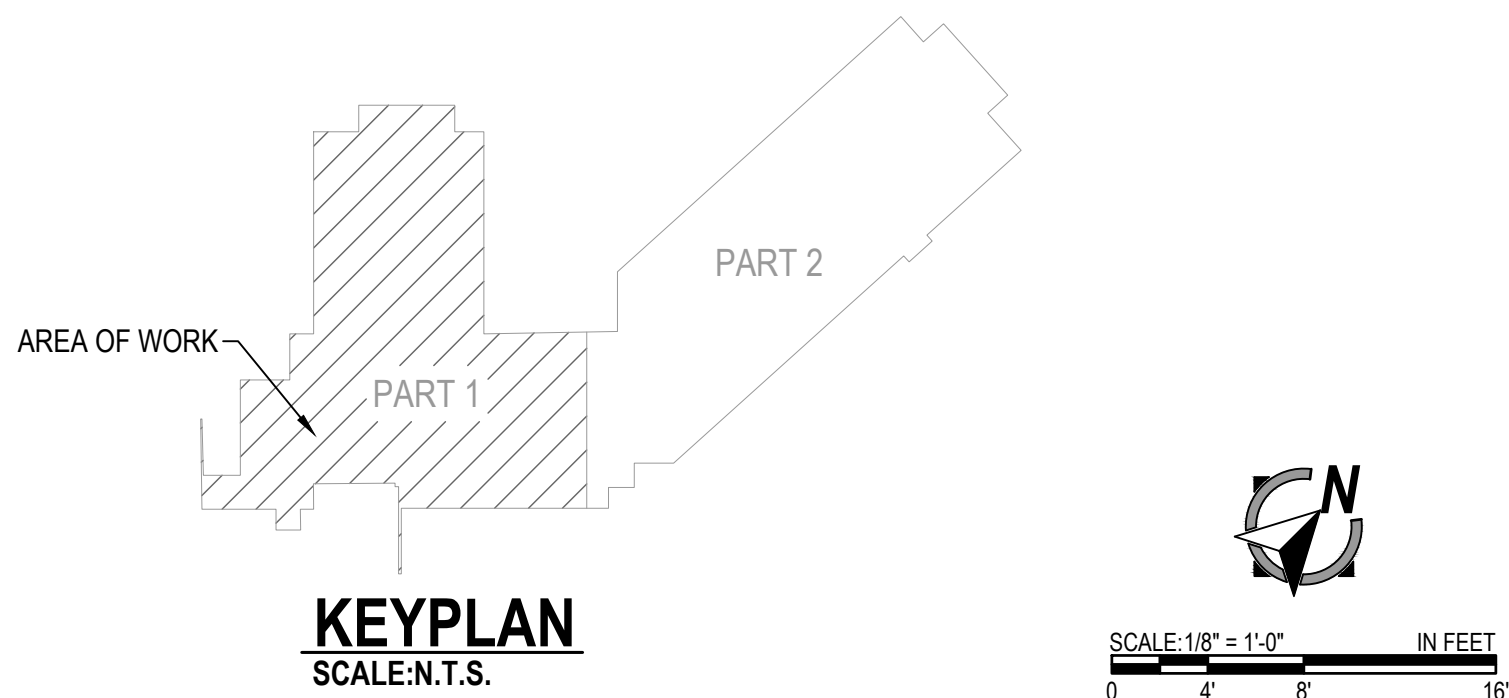
FA-106



30" x 42" - Arch E Size
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LAST SAVED BY: JACWARD
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DEVICE PLACEMENT PLAN - FIFTH FLOOR PART 1 OF 2
SCALE: 1/8" = 1'-0"



KEYPLAN
SCALE: N.T.S.

- GENERAL NOTES:**
- ALL CEILING ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
 - TAP ALL SPEAKERS AT 0.5W UNLESS NOTED OTHERWISE.
 - SET ALL SPEAKER VOLTAGE JUMPERS TO THE 70V SETTING.
 - ALL NOTIFICATION APPLIANCE CANDELA INTENSITY PLUS SHALL RETAIN THEIR FACTORY SETTING OF "FACP" UNLESS OTHERWISE DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
 - DO NOT CHANGE DEFAULT APPLIANCE CONFIGURATION SWITCH SETTINGS ON ADDRESSABLE AV DEVICES (CFG1). REFER TO DEVICE DETAILS AND INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
 - THE DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM. CONSULT WITH A JOHNSON CONTROLS TECHNICIAN BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.
- KEYNOTES:**
- INSTALL SMOKE/HEAT DETECTOR WITHIN 24" OF SPRINKLER HEAD IN ELEVATOR PIT.
 - PROVIDE 120VAC POWER (BY OTHERS) TO RELAY.
 - DEVICE TO ACTIVATE ON SPRINKLER WATERFLOW ACTIVATION. CONFIRM LOCATION REQUIREMENTS WITH FIRE DEPARTMENT BEFORE INSTALLATION.
 - FIELD VERIFY FINAL LOCATION.
 - SMOKE/HEAT DETECTOR TO BE LOCATED IN TOP OF ELEVATOR SHAFT WITHIN 2' OF SPRINKLER HEAD.
 - POWER TO BE REMOVED FROM DOOR HOLD OPEN DEVICES THROUGH PANEL PROGRAMMING AFTER 5 MINUTES OF AC POWER LOSS.

FIRE ALARM SYMBOL LEGEND

QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
PANELS & ANNUNCIATORS						
1	TPRF	4100S TRANSPONDER FIRE ALARM LOCAL MODE TRANSPONDER PANEL, 120 VAC	SIMPLEX	4100-9601	SIMPLEX CABINET	N/A
4	NACF	4009 IDNET NAC EXTENDER PANEL, 120 VAC, BEIGE	SIMPLEX	4009-9201	SIMPLEX CABINET	N/A
1	EPFR	4009 TRUEALERT ADDRESSABLE IDNAC REPEATER, 120/240 VAC, PLATINUM	SIMPLEX	4009-9601	SIMPLEX CABINET	N/A
1	FAA	SERIAL LCD ANNUNCIATOR	SIMPLEX	4603-9101	6-GANG BOX 3-1/2"D	B P
INITIATING DEVICES						
104	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M Z
30	S	ADDRESSABLE STANDARD HEAT SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9733 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
16	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO SENSOR BASE	SIMPLEX	4098-9714 HEAD 4098-9770 BASE	4" OCT, 1-1/2" D	M
173	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9772 BASE	4" OCT, 1-1/2" D	M H
27	S	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ CO W/ 520Hz SOUNDER BASE	SIMPLEX	4098-9714 HEAD 4098-9773 BASE	4" OCT, 1-1/2" D	M H
3	S	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
2	S	ADDRESSABLE COMBO SMOKE/HEAT SENSOR W/ STANDARD BASE	SIMPLEX	4098-9754 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	M
15	F	ADDRESSABLE DOUBLE ACTION MANUAL PUSH/PULL STATION	SIMPLEX	4099-9006	4" SQ, 2-1/8" D W/ SINGLE GANG COVER	M
MODULES AND RELAYS						
40	IM	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	SINGLE GANG 2-1/2" D W/COVER	M Z
48	RI	RELAY IAM	SIMPLEX	4090-9002	4" SQ, 2-1/8" D W/ DBL GANG COVER	M R
25	TR	TRACK MOUNTED SINGLE RELAY DPDT W/ ENCLOSURE, APOLLO AMERICA INC MR-201/C	SIMPLEX	2088-9010	TRACK MOUNTED	R
16	TC	TEMPORAL CODE 4 MODULE	SIMPLEX	4905-9835	4" SQ, 2-1/8" D	M V
NOTIFICATION APPLIANCES						
69	#	ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, CEILING MOUNT, WHITE, CLEAR LENS, FIRE	SIMPLEX	4906-9254	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
33	#	ADDRESSABLE MULTI-CANDELA SPEAKER/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	4906-9251	4" SQ, 1-1/2" D W/ 1-1/2" EXT RING	A S
2	#	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VOC-APPLC	4" SQ, 1-1/2" D	A
2	#	ADDRESSABLE MULTI-CANDELA STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VOC-CWF	4" SQ, 1-1/2" D	A
1	#	ADDRESSABLE MULTI-CANDELA WEATHERPROOF HORN/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49VOC-CWF	4" SQ, 1-1/2" D	A
1	#	ADDRESSABLE MULTI-CANDELA WEATHERPROOF HORN/STROBE, WALL MOUNT, RED, CLEAR LENS, FIRE	SIMPLEX	49VOC-CWF	4" SQ, 1-1/2" D	A
MISCELLANEOUS DEVICES						
63	FS	FIRE/SMOKE DAMPER	BY OTHERS	BY OTHERS		
19	WF	WATERFLOW SWITCH	BY OTHERS	BY OTHERS		Z
19	VS	TAMPER SWITCH	BY OTHERS	BY OTHERS		Z
148	JB	JUNCTION BOX	BY OTHERS	BY OTHERS		
40	WR	END-OF-LINE RESISTOR 6.8K (EOL)	SIMPLEX	4081-9004		
28	WR	END-OF-LINE RESISTOR 10K (EOL)	SIMPLEX	4081-9008		
14	DM	DOOR HOLDER, 12 OR 24VDC, SEMI-FLUSH MOUNT, GREY POWDER COAT	RSG/AMES	DH1224FFC		D

FIRE ALARM WIRE LEGEND

CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	FLR	FLP	THIN	IFEN	OUTDOOR**	CL
A ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60pft, MAX CAPACITANCE: 3 tws/ft. MINIMUM	X	X				
B RJU - COMMUNICATION	UTP SOLID	18 AWG	58pft, MAX CAPACITANCE: 35.5 Q TOTAL LINE RESISTANCE	X	X				
D DOOR HOLDER	2 COND. SOLID	14 AWG		X	X	X	X		
H AUDIBLE CIRCUIT	2 COND. SOLID	14 AWG		X	X				
M IDNET	UTP SOLID	18 AWG	60pft, MAX TOTAL LINE CAPACITANCE	X	X				
P POWER	2 COND. SOLID	14 AWG		X	X	X	X		
R RELAY	2 COND. SOLID	14 AWG		X	X	X	X		
S AUDIO - SPEAKER	UTP SOLID	18 AWG	30pft, MAX CAPACITANCE RECOMMENDED	X	X				
Sr ANALOG AUDIO RISER	STP SOLID	18 AWG		X	X				
V VISUAL	2 COND. SOLID	14 AWG		X	X				
Z ZONE CIRCUIT	2 COND. SOLID	18 AWG		X	X	X	X		
CONDUIT SIZE		MAX CONDUCTOR AREA	CONDUIT SIZE	MAX CONDUCTOR AREA					
1/4"		0.12 SQ INCH*	1/4"						
3/4"		0.213 SQ INCH*	1/2"						
1"		0.346 SQ INCH*	3/4"						

*40% CONDUIT FILL PER N.E.C.
SFP = SHIELDED TWISTED PAIR
ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.

CONTACT: 330
1703 STRAIN LINE ROAD
LEES SUMMIT, MO 64081-0000
PHONE: 913.684.0010
FAX: 913.684.0003

11/17/2024

REVISION 1

DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332 621373401
SYSTEM:	JOHNSON CONTROLS # 2021
FIRE ALARM SYSTEM	
SHEET:	
DEVICE PLACEMENT PLAN - FIFTH FLOOR PART 1 OF 2	

FA-109



KEYPLAN
SCALE:N.T.S.

FA-110

FIRE ALARM WIRE LEGEND

Diagram illustrating the assembly of two parts:

- PART 1**: A stepped block on the left.
- PART 2**: A rectangular block with diagonal hatching, positioned to the right of Part 1.
- AREA OF WORK**: An arrow points to the top surface of Part 2, indicating the area of work.

REVISION 1

DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332.621373401
JOHNSON CONTROLS © 2021	
SYSTEM: FIRE ALARM SYSTEM	
SHEET:	

**DEVICE PLACEMENT PLAN
FIFTH FLOOR PART 2 OF 2**

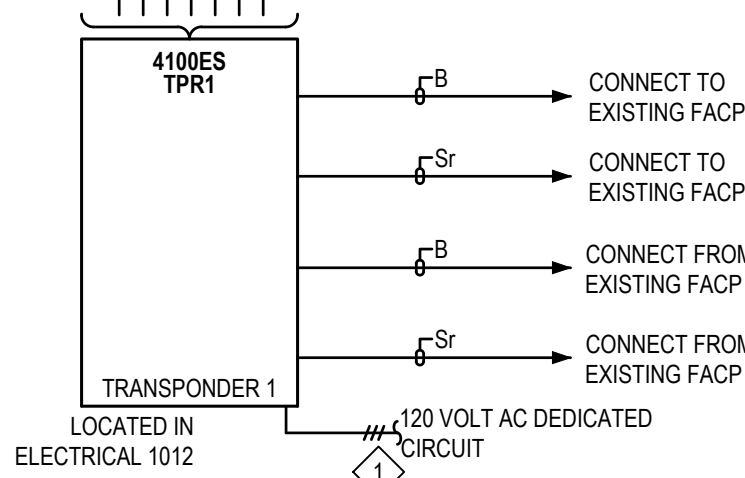
FA-110



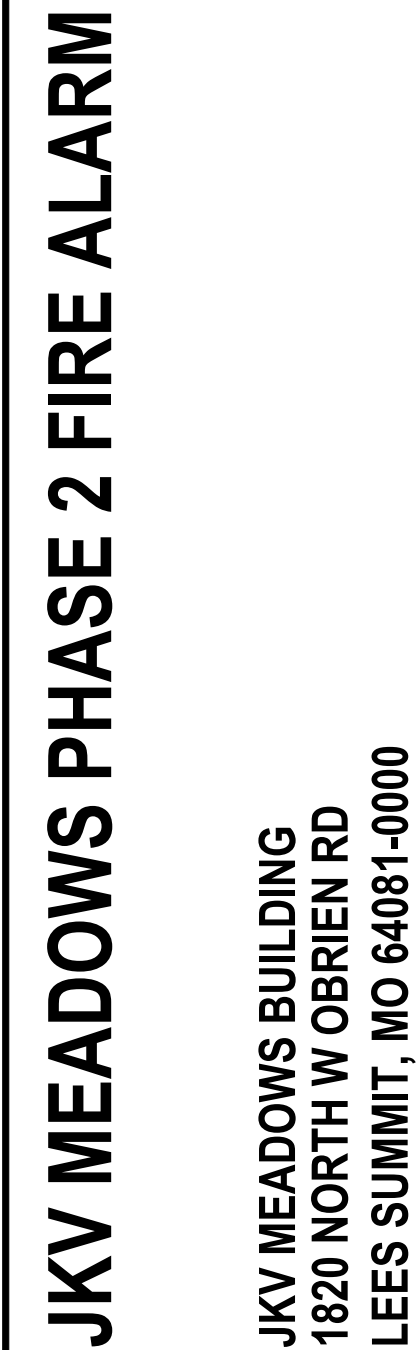
11019 STRANG LINE ROAD
LENEXA, KS 66215
PHONE: 913-894-0010
FAX: 913-894-0020
SERVICE: 913-894-0010



SCALE:N.T.S.



- ### **RISER NOTES:**
1. RISER IS A DIAGRAMMATICAL REPRESENTATION OF THE SYSTEM ARCHITECTURE IN BUILDING CROSS SECTION. IT IS NOT INTENDED TO REPRESENT ACTUAL WIRE RUNS, PANEL CONFIGURATIONS OR PENETRATIONS. REFER TO FLOOR PLANS AND PANEL DETAILS FOR CIRCUIT ROUTING AND CONFIGURATION INFORMATION.
 2. ALL WIRING SHALL COMPLY WITH APPLICABLE ELECTRICAL CODES. REFER TO "APPLICABLE CODES & STANDARDS" ON SHEET FA-001 FOR SPECIFIC CODE REFERENCES.
- ### **KEYED NOTES:**
- 1 120VAC PRIMARY POWER SOURCE SHALL BE A MECHANICALLY PROTECTED BRANCH CIRCUIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT"
 - 2 PROVIDE 120VAC POWER (BY OTHERS) TO RELAY.

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REVISION 1

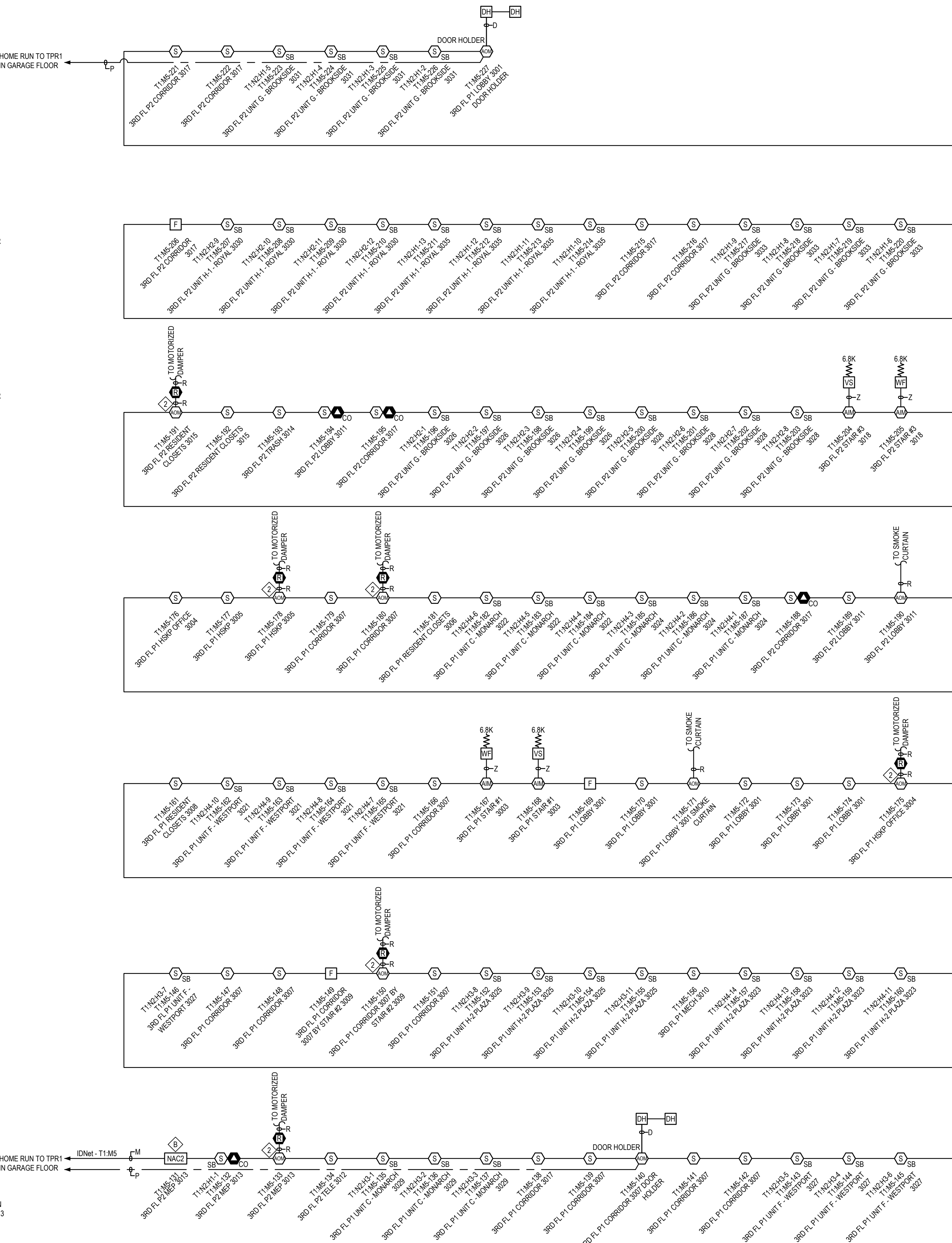
DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332-621373401
JOHNSON CONTROLS © 2021	

SYSTEM:

SHEET:

**RISER DIAGRAM - GARAGE
FLOOR**

FA-201



 **Johnson Controls**

DISTRICT - 332
1108 STRANG LINE ROAD
LEWISVILLE, OH 44641
PHONE: 913-884-0070
FAX: 913-884-0070

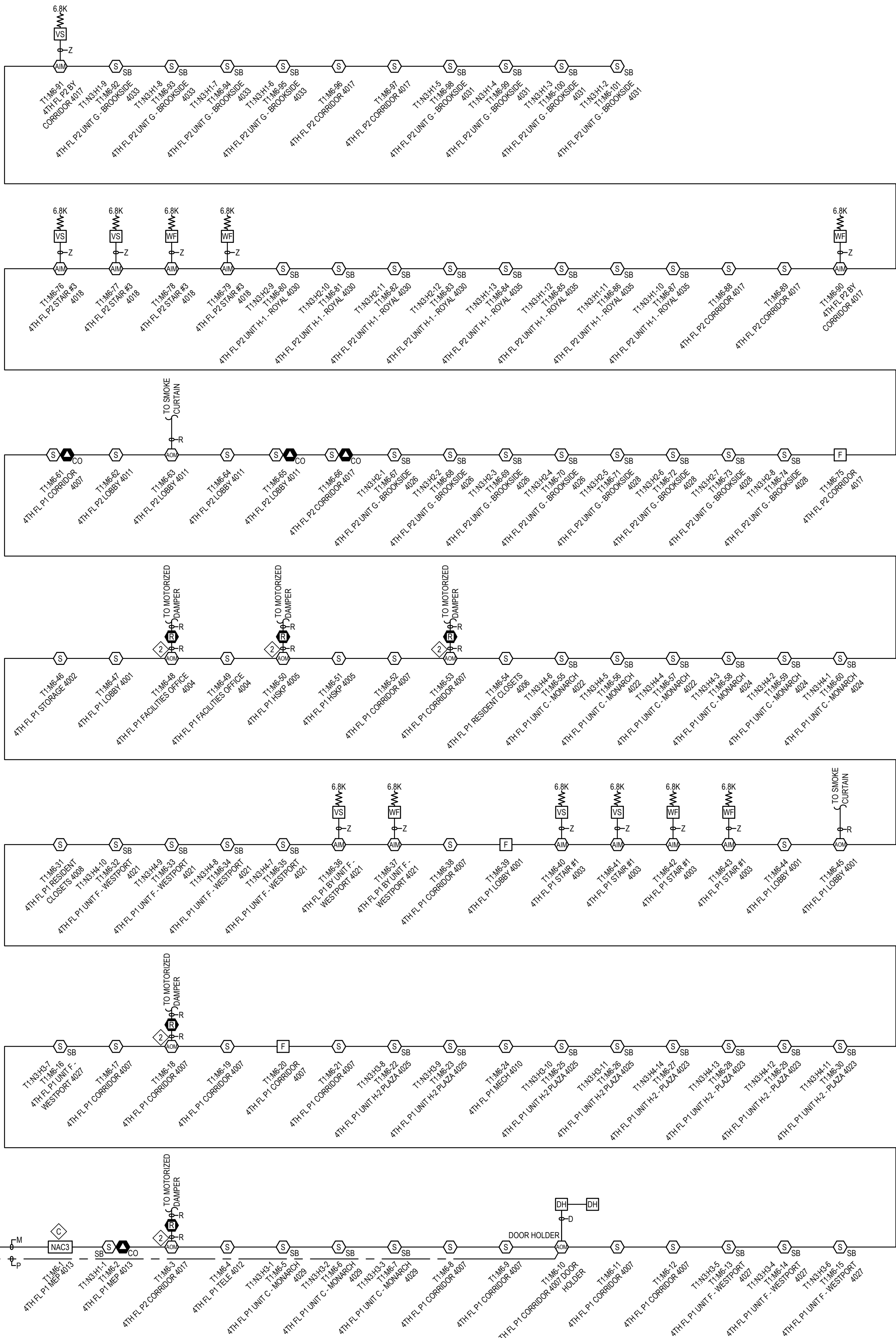
 *[Signature]*
11/8/2021

**JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000**

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DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332-621373401
JOHNSON CONTROLS © 2021	
SYSTEM:	
FIRE ALARM SYSTEM	

FA-203




Johnson Controls

DISTRICT - 332
1103 STRANG LINE ROAD
LENOXIA, MS 39255
SERVICE 915-854-0010

PHONE: 915-854-0010
FAX: 915-854-0020


John Williams
4/18/2021

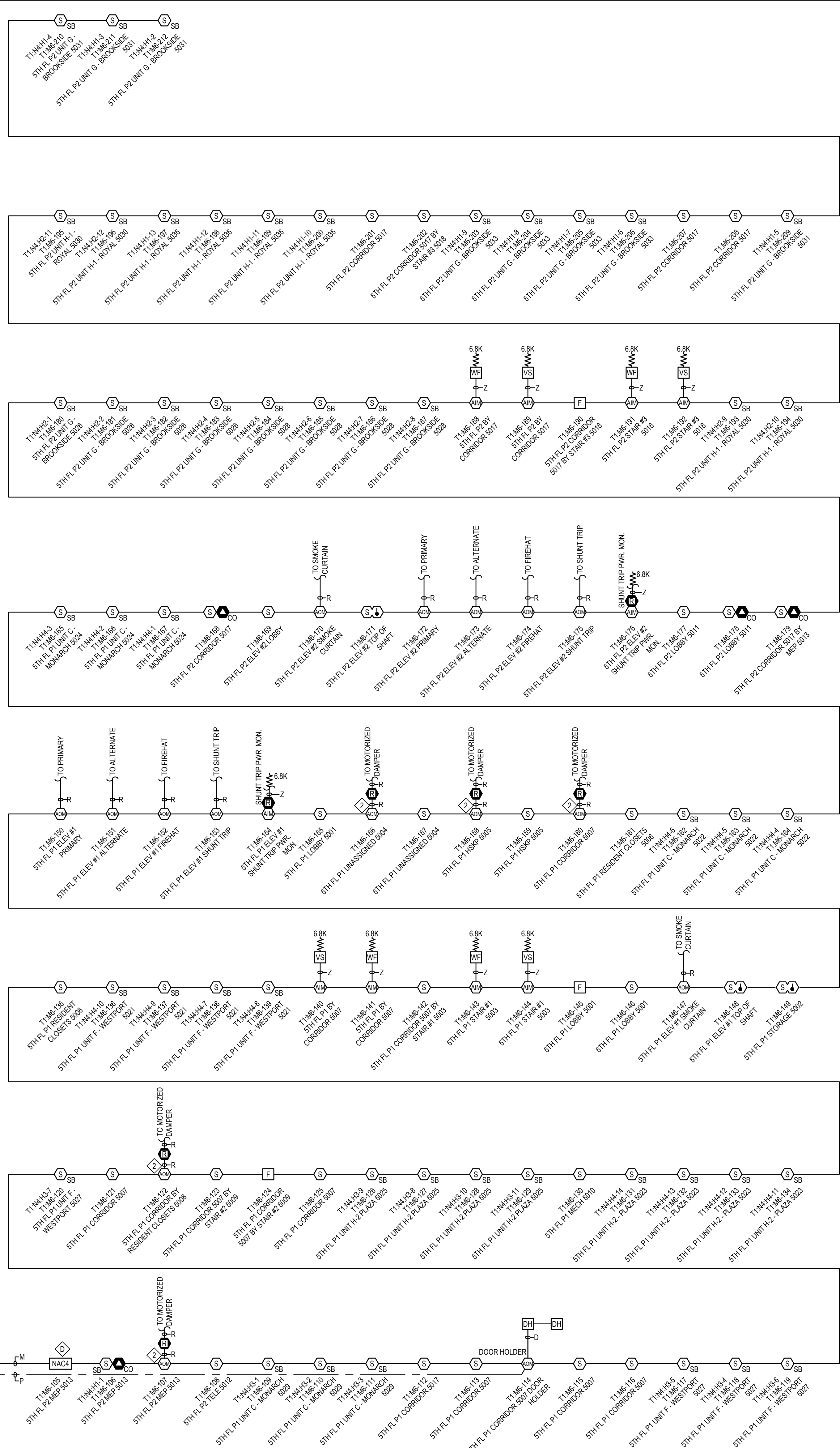
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REVISION 1	
DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332.621373401
JOHNSON CONTROLS © 2021	
SYSTEM:	
FIRE ALARM SYSTEM	
SHEET:	

RISER DIAGRAM - 4TH FLOOR

FA-204

FIFTH FLOOR



- RISER NOTES:**
1. RISER IS A DIAGRAMMATICAL REPRESENTATION OF THE SYSTEM ARCHITECTURE IN BUILDING CROSS SECTION. IT IS NOT INTENDED TO REPRESENT ACTUAL WIRE RUNS, PANEL CONFIGURATIONS OR PENETRATIONS. REFER TO FLOOR PLANS AND PANEL DETAILS FOR CIRCUIT ROUTING AND CONSTRUCTION INFORMATION.
 2. ALL WIRING SHALL COMPLY WITH APPLICABLE ELECTRICAL CODES. REFER TO APPLICABLE CODES & STANDARDS ON SHEET F-001 FOR SPECIFIC CODE REFERENCES.
- KEYED NOTES:**
- 1 120VAC PRIMARY POWER SOURCE SHALL BE A MECHANICALLY PROTECTED BRANCH CIRCUIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT"
 - 2 PROVIDE 120VAC POWER (BY OTHERS) TO RELAY.



11019 STRANG LINE ROAD
LENEXA, KS 66215
SERVICE: 913-894-0010
PHONE: 913-894-0010
FAX: 913-894-0120



JKV MEADOWS PHASE 2 FIRE ALARM

**JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000**

[illegible]

REVISION 1

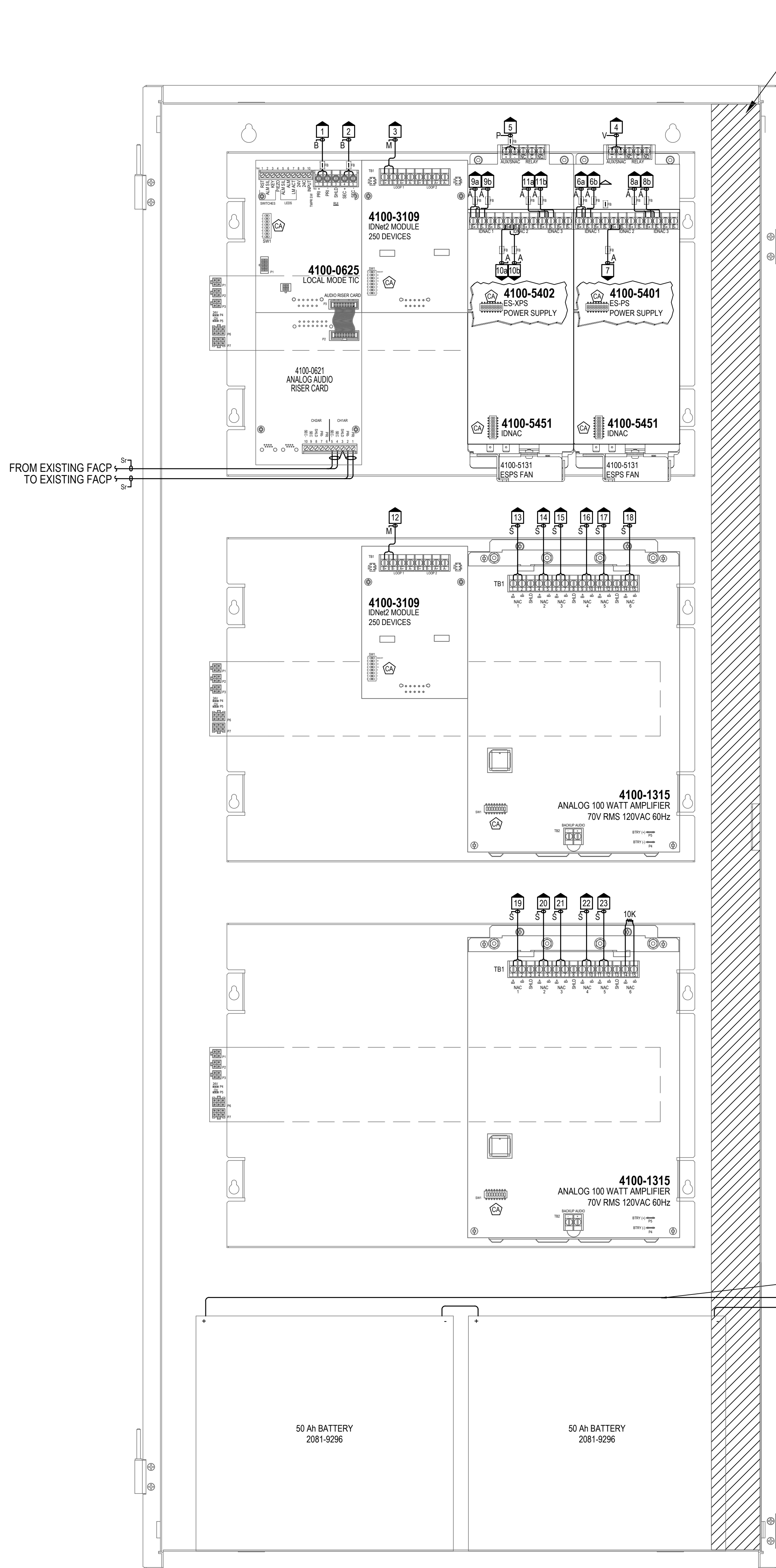
DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332.621373401
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SYSTEM:
FIRE ALARM SYSTEM

SHEET:

RISER DIAGRAM - 5TH FLOOR

FA-205



FIRE ALARM TRANSPONDER 1
CABINET #1 - GARAGE FLOOR
ELECTRICAL 1012

SCALE: NTS

DO NOT LOCATE POWER-LIMITED WIRING IN THE SHADED AREAS OF THE BACKBOX, THIS AREA IS RESERVED FOR NON-POWER LIMITED CIRCUITRY SUCH AS AC POWER, BATTERIES AND CITY CONNECTION.

BAY 1 TERMINATIONS

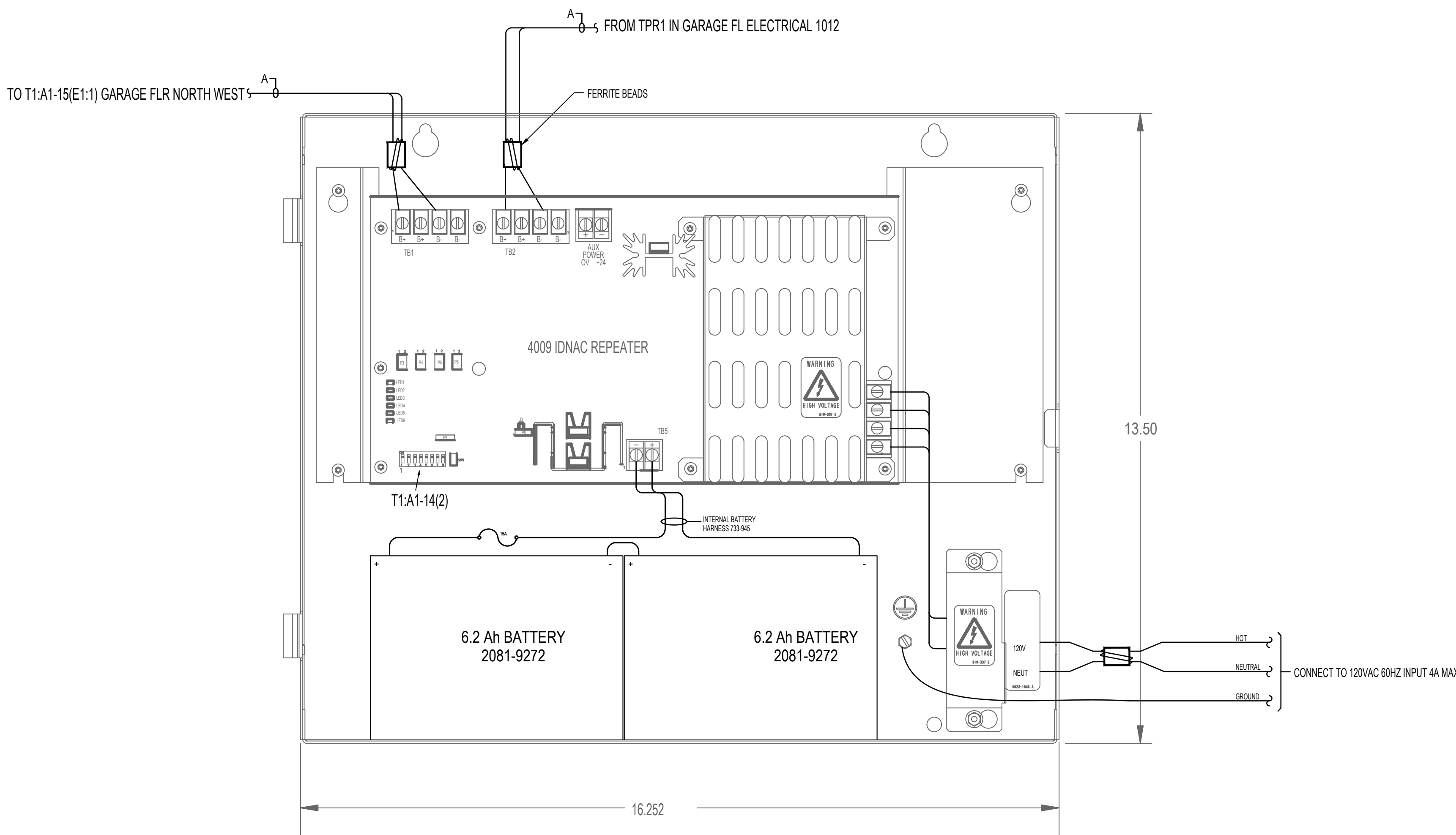
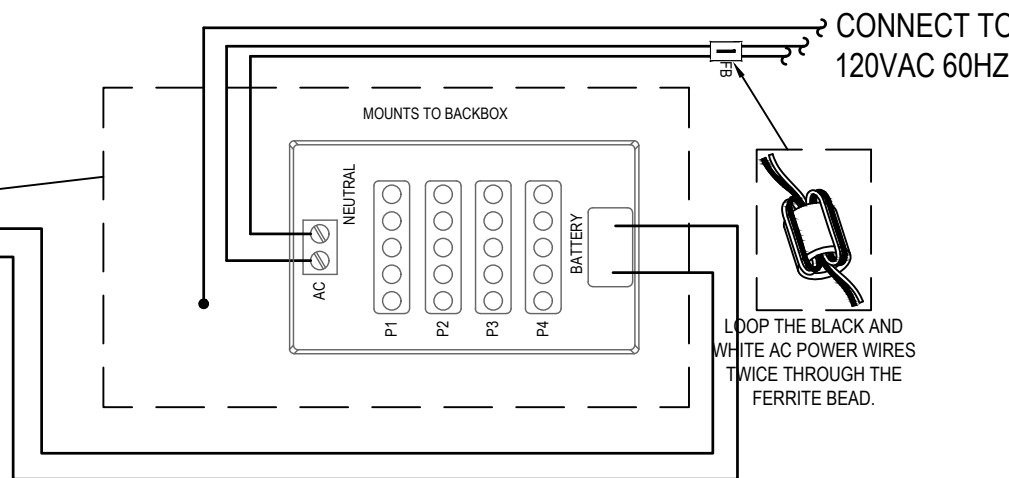
TERMINATION NUMBER	CIRCUIT LABEL	CKT DESCRIPTION	WIRE
1	RUI	FROM EXISTING FACP	B
2	RUI	TO EXISTING FACP	B
3	T1-M5-XX	TO GAR FL 2ND FL & 3RD FL	M
4	T1-V1-XX	TO T04 MODULES CIRCUIT	V
5	AUX	TO 24VDC AUXILIARY POWERED DEVICES	P
6a	T1-A1-XX(1)	TO GAR FL P1 SOUTH	A
6b	T1-A1-XX(2)	TO GAR FL P1 NORTH WEST	A
7	T1-A2-XX(1)	TO GAR FL P2 NORTH	A
8	T1-A3-XX(1)	TO 2ND FL P1	A
9	T1-A3-XX(2)	TO 2ND FL P2	A
10a	T1-A4-XX(1)	TO 3RD FL P1	A
10b	T1-A4-XX(2)	TO 3RD FL P2	A
11a	T1-A5-XX(1)	TO 4TH FL P1	A
11b	T1-A5-XX(2)	TO 4TH FL P2	A
11c	T1-A6-XX(1)	TO 5TH FL P1	A
11d	T1-A6-XX(2)	TO 5TH FL P2	A

BAY 2 TERMINATIONS

TERMINATION NUMBER	CIRCUIT LABEL	CKT DESCRIPTION	WIRE
12	T1-S16-XX	TO 4TH FL & 5TH FL	M
13	T1-S13-XX	TO GAR FL P1 SOUTH	S
14	T1-S14-XX	TO GAR FL P1 NORTH WEST	S
15	T1-S15-XX	TO GAR FL P2 NORTH	S
16	T1-S16-XX	TO 2ND FL P1	S
17	T1-S17-XX	TO 2ND FL P2	S
18	T1-S18-XX	TO 3RD FL P1	S

BAY 3 TERMINATIONS

TERMINATION NUMBER	CIRCUIT LABEL	CKT DESCRIPTION	WIRE
19	T1-S19-XX	TO 3RD FL P2	S
20	T1-S20-XX	TO 4TH FL P1	S
21	T1-S21-XX	TO 4TH FL P2	S
22	T1-S22-XX	TO 5TH FL P1	S
23	T1-S23-XX	TO 5TH FL P2	S



EPR1 PANEL DETAIL (GARAGE FL ELECTRICAL 1012)
SCALE: N.T.S.



JKV MEADOWS PHASE 2 FIRE ALARM

JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000

ISSUE LOG	DATE	BY	DESCRIPTION
1	12/26/21	JMC	ADD DUMPERS AND MOVIE HC ROOM FROM 2020 TO 2022

REVISION 1

DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332-621373401
SYSTEM:	JOHNSON CONTROLS # 2021

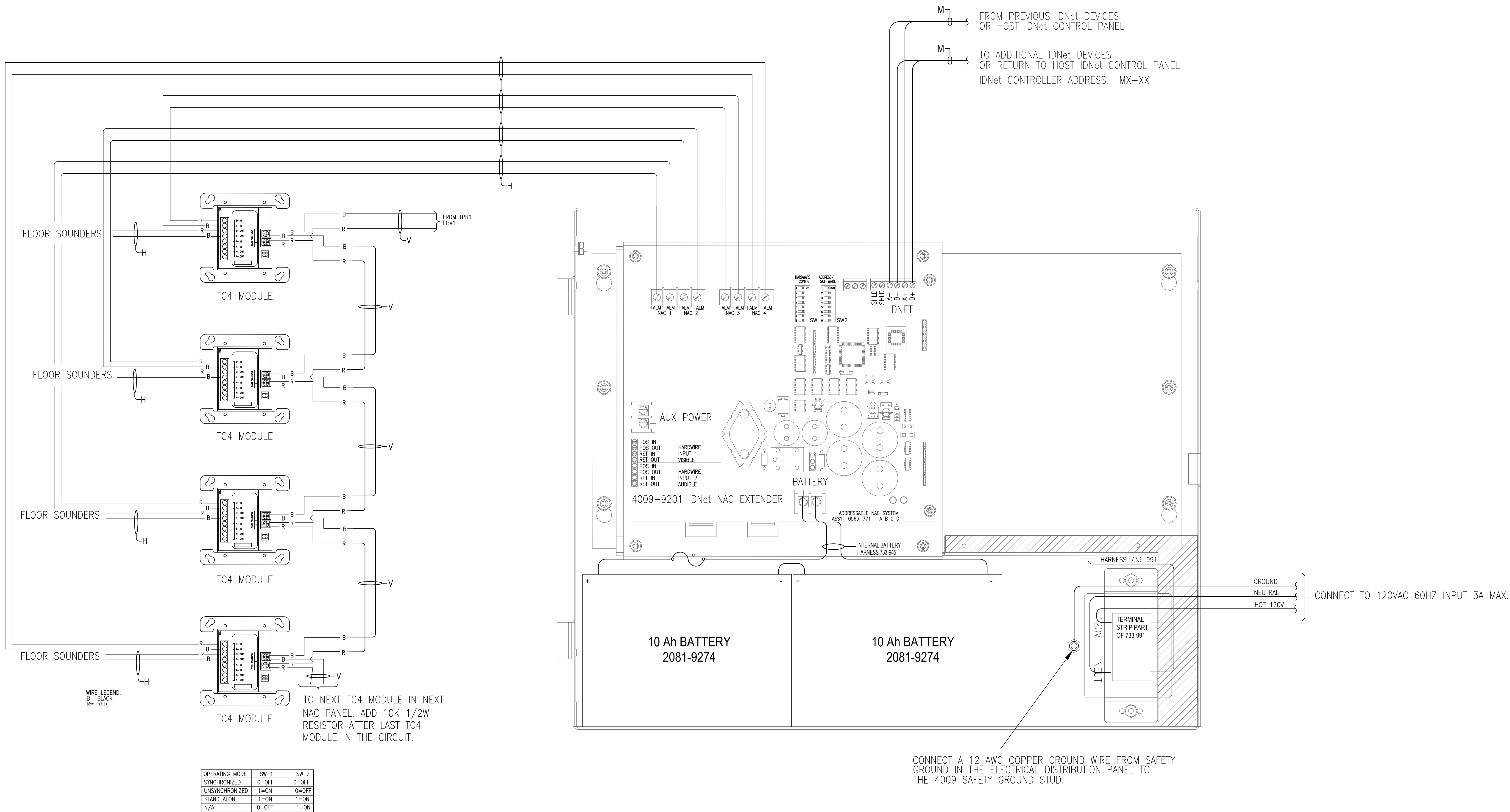
PANEL DETAIL - TPR1 & EPR1

FILE PATH: C:\Users\jmc\OneDrive\Johnson Controls\Project Electronics - MeadowPhase 2\61173401\Systems\FA-501.dwg

LAST SAVED BY: JMC/MSD

LAST PRINTED: 10/26/2021 8:08:42 PM

30" x 42" Arch E Size



TYPICAL NAC PANEL DETAIL WITH TC4 MODULE CONNECTION (NAC1, NAC2, NAC3, NAC4)
SCALE:N.T.S.

ISSUE LOG	DATE	BY	DESCRIPTION
1	10/26/21	DE	ADD DATA PERS AND MOVE HC ROOM FROM 2002 TO 2022

REVISION 1

DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332431373401
SYSTEM:	JOHNSON CONTROLS © 2021
SHEET:	FIRE ALARM SYSTEM

PANEL DETAIL - TYPICAL
NAC PANEL

ESPS-1 Configuration	
Capacity:	9.500A
Ckt. Capacity:	3.000A
Aux. Capacity:	2.000A

ESPS-2 Configuration	
Capacity:	9.500A
Ckt. Capacity:	3.000A
Aux. Capacity:	2.000A

NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES.
THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING
POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES.
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POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

FA-601

IDNET CHANNEL T1-M6			ADDRESSES IN USE: 209 (83.6%) SPARE ADDRESSES: 41 (16.4%)		SWITCH SETTINGS							
Address	Device Type	Point Type	Location Description		1							
T1-M6-1	4009A4	SIGNAL	4TH FL P1 MEP 4013		6-1	X						ON
T1-M6-2	MCOPPS	UTILITY	4TH FL P1 CORRIDOR 4007		6-2	X						ON
T1-M6-3	RIAM	CDAMPER	4TH FL P2 CORRIDOR 4017		6-3	X						ON
T1-M6-4	PHOTO	SMOKE	4TH FL P1 TELE 4012		6-4	X						ON
T1-M6-5	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4029		6-5	X	X					ON
T1-M6-6	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4029		6-6	X	X					ON
T1-M6-7	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4029		6-7	X	X	X				ON
T1-M6-8	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-8	X		X				ON
T1-M6-9	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-9	X		X				ON
T1-M6-10	RIAM	DHOLDER	4TH FL P1 CORRIDOR 4007 DOOR HOLDER		6-10	X	X					ON
T1-M6-11	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-11	X	X					ON
T1-M6-12	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-12	X	X					ON
T1-M6-13	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4027		6-13	X	X	X				ON
T1-M6-14	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4027		6-14	X	X	X				ON
T1-M6-15	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4027		6-15	X	X	X				ON
T1-M6-16	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4027		6-16	X		X				ON
T1-M6-17	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-17	X		X				ON
T1-M6-18	RIAM	CDAMPER	4TH FL P1 CORRIDOR 4007		6-18	X		X				ON
T1-M6-19	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-19	X	X	X				ON
T1-M6-20	ADRPUL	PULL	4TH FL P1 CORRIDOR 4007		6-20	X	X					ON
T1-M6-21	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-21	X	X	X				ON
T1-M6-22	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 PLAZA 4025		6-22	X	X	X				ON
T1-M6-23	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 PLAZA 4025		6-23	X	X	X				ON
T1-M6-24	PHOTO	SMOKE	4TH FL P1 MECH 4001		6-24	X		X	X			ON
T1-M6-25	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 PLAZA 4025		6-25	X	X	X				ON
T1-M6-26	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 PLAZA 4025		6-26	X	X	X				ON
T1-M6-27	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 - PLAZA 4023		6-27	X	X	X				ON
T1-M6-28	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 - PLAZA 4023		6-28	X	X	X				ON
T1-M6-29	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 - PLAZA 4023		6-29	X	X	X	X			ON
T1-M6-30	SPHOTO	SMOKE	4TH FL P1 UNIT H-2 - PLAZA 4023		6-30	X	X	X	X			ON
T1-M6-31	PHOTO	SMOKE	4TH FL P1 RESIDENT CLOSETS 4008		6-31	X	X	X	X			ON
T1-M6-32	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4021		6-32			X				ON
T1-M6-33	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4021		6-33	X		X				ON
T1-M6-34	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4021		6-34	X	X					ON
T1-M6-35	SPHOTO	SMOKE	4TH FL P1 UNIT F - WESTPORT 4021		6-35	X	X	X				ON
T1-M6-36	IAM	SO	4TH FL P1 BY UNIT F - WESTPORT 4021		6-36	X		X				ON
T1-M6-37	IAM	WATER	4TH FL P1 BY UNIT F - WESTPORT 4021		6-37	X	X	X				ON
T1-M6-38	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-38	X	X	X				ON
T1-M6-39	ADRPUL	PULL	4TH FL P1 LOBBY 4001		6-39	X	X	X				ON
T1-M6-40	IAM	SO	4TH FL P1 STAIR #1 4003		6-40	X		X	X			ON
T1-M6-41	IAM	SO	4TH FL P1 STAIR #1 4003		6-41	X		X	X			ON
T1-M6-42	IAM	WATER	4TH FL P1 STAIR #1 4003		6-42	X	X	X				ON
T1-M6-43	IAM	WATER	4TH FL P1 STAIR #1 4003		6-43	X	X	X	X			ON
T1-M6-44	PHOTO	SMOKE	4TH FL P1 LOBBY 4001		6-44	X	X	X	X			ON
T1-M6-45	RIAM	RELAY	4TH FL P1 LOBBY 4001		6-45	X	X	X	X			ON
T1-M6-46	PHOTO	SMOKE	4TH FL P1 STORAGE 4002		6-46	X	X	X	X			ON
T1-M6-47	PHOTO	SMOKE	4TH FL P1 LOBBY 4001		6-47	X	X	X	X			ON
T1-M6-48	RIAM	CDAMPER	4TH FL P1 FACILITIES OFFICE 4004		6-48	X		X	X			ON
T1-M6-49	PHOTO	SMOKE	4TH FL P1 FACILITIES OFFICE 4004		6-49	X		X	X			ON
T1-M6-50	RIAM	CDAMPER	4TH FL P1 HSKP 4005		6-50	X	X	X	X			ON
T1-M6-51	PHOTO	SMOKE	4TH FL P1 HSKP 4005		6-51	X	X	X	X			ON
T1-M6-52	PHOTO	SMOKE	4TH FL P1 CORRIDOR 4007		6-52	X	X	X	X			ON
T1-M6-53	RIAM	CDAMPER	4TH FL P1 CORRIDOR 4007		6-53	X	X	X	X			ON
T1-M6-54	PHOTO	SMOKE	4TH FL P1 RESIDENT CLOSETS 4006		6-54	X	X	X	X			ON
T1-M6-55	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4022		6-55	X	X	X	X			ON
T1-M6-56	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4022		6-56	X		X	X	X		ON
T1-M6-57	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4022		6-57	X	X	X	X			ON
T1-M6-58	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4024		6-58	X	X	X	X			ON
T1-M6-59	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4024		6-59	X	X	X	X	X		ON
T1-M6-60	SPHOTO	SMOKE	4TH FL P1 UNIT C - MONARCH 4024		6-60	X	X	X	X	X		ON
T1-M6-61	MCOP	UTILITY	4TH FL P1 CORRIDOR 4007		6-61	X	X	X	X	X		ON
T1-M6-62	PHOTO	SMOKE	4TH FL P2 LOBBY 4011		6-62	X	X	X	X	X		ON
T1-M6-63	RIAM	RELAY	4TH FL P2 LOBBY 4011		6-63	X	X	X	X	X		ON
T1-M6-64	PHOTO	SMOKE	4TH FL P2 LOBBY 4011		6-64					X		ON
T1-M6-65	MCOP	UTILITY	4TH FL P2 LOBBY 4011		6-65	X				X		ON
T1-M6-66	MCOP	UTILITY	4TH FL P2 CORRIDOR 4017		6-66	X				X		ON
T1-M6-67	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4026		6-67	X	X			X		ON
T1-M6-68	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4026		6-68	X				X		ON
T1-M6-69	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4026		6-69	X	X			X		ON
T1-M6-70	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4026		6-70	X	X	X		X		ON
T1-M6-71	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4026		6-71	X	X	X		X		ON
T1-M6-72	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4028		6-72	X				X		ON
T1-M6-73	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4028		6-73	X	X			X		ON
T1-M6-74	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4028		6-74	X	X			X		ON
T1-M6-75	ADRPUL	PULL	4TH FL P2 CORRIDOR 4017		6-75	X	X	X		X		ON
T1-M6-76	IAM	SO	4TH FL P2 STAIR #3 4018		6-76	X	X	X		X		ON
T1-M6-77	IAM	SO	4TH FL P2 STAIR #3 4018		6-77	X	X	X		X		ON
T1-M6-78	IAM	WATER	4TH FL P2 STAIR #3 4018		6-78	X	X	X		X		ON
T1-M6-79	IAM	WATER	4TH FL P2 STAIR #3 4018		6-79	X	X	X	X			ON
T1-M6-80	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4030		6-80					X		ON
T1-M6-81	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4030		6-81	X	X			X		ON
T1-M6-82	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4030		6-82	X				X		ON
T1-M6-83	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4030		6-83	X	X			X		ON
T1-M6-84	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4035		6-84	X	X			X		ON
T1-M6-85	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4035		6-85	X	X	X		X		ON
T1-M6-86	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4035		6-86	X	X	X		X		ON
T1-M6-87	SPHOTO	SMOKE	4TH FL P2 UNIT H-1 - ROYAL 4035		6-87	X	X	X	X			ON
T1-M6-88	PHOTO	SMOKE	4TH FL P2 CORRIDOR 4017		6-88	X	X	X		X		ON
T1-M6-89	PHOTO	SMOKE	4TH FL P2 CORRIDOR 4017		6-89	X	X	X		X		ON
T1-M6-90	IAM	WATER	4TH FL P2 BY CORRIDOR 4017		6-90	X	X	X	X			ON
T1-M6-91	IAM	SO	4TH FL P2 BY CORRIDOR 4017		6-91	X	X	X	X	X		ON
T1-M6-92	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4033		6-92	X	X	X	X	X		ON
T1-M6-93	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4033		6-93	X	X	X	X	X		ON
T1-M6-94	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4033		6-94	X	X	X	X	X		ON
T1-M6-95	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4033		6-95	X	X	X	X	X		ON
T1-M6-96	PHOTO	SMOKE	4TH FL P2 CORRIDOR 4017		6-96	X				X		ON
T1-M6-97	PHOTO	SMOKE	4TH FL P2 CORRIDOR 4017		6-97	X				X		ON
T1-M6-98	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4031		6-98	X				X		ON
T1-M6-99	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4031		6-99	X	X			X		ON
T1-M6-100	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4031		6-100	X				X		ON
T1-M6-101	SPHOTO	SMOKE	4TH FL P2 UNIT G - BROOKSIDE 4031		6-101	X	X			X		ON
T1-M6-102		SPARE			6-102	X	X	X	X			ON
T1-M6-103		SPARE			6-103	X	X	X	X			ON
T1-M6-104		SPARE			6-104	X	X	X	X			ON
T1-M6-105	4009A4	SIGNAL	5TH FL P2 MEP 5013		6-105	X	X			X		ON
T1-M6-106	MCOPPS	UTILITY	5TH FL P2 MEP 5013		6-106	X	X	X		X		ON
T1-M6-107	RIAM	CDAMPER	5TH FL P2 MEP 5013		6-107	X	X	X	X			ON
T1-M6-108	PHOTO	SMOKE	5TH FL P2 TELE 5012		6-108	X	X	X	X			ON
T1-M6-109	SPHOTO	SMOKE	5TH FL P1 UNIT C - MONARCH 5029		6-109	X	X	X	X	X		ON
T1-M6-110	SPHOTO	SMOKE	5TH FL P1 UNIT C - MONARCH 5029		6-110	X	X	X	X	X		ON
T1-M6-111	SPHOTO	SMOKE	5TH FL P1 UNIT C - MONARCH 5029		6-111	X	X	X	X	X		ON
T1-M6-112	PHOTO	SMOKE	5TH FL P1 CORRIDOR 5017		6-112					X	X	ON
T1-M6-113	PHOTO	SMOKE	5TH FL P1 CORRIDOR 5007		6-113	X				X	X	ON
T1-M6-114	RIAM	DHOLDER	5TH FL P1 CORRIDOR 5007 DOOR HOLDER		6-114	X	X			X	X	ON
T1-M6-115	PHOTO	SMOKE	5TH FL P1 CORRIDOR 5007		6-115	X	X	X		X	X	ON
T1-M6-116	PHOTO	SMOKE	5TH FL P1 CORRIDOR 5007		6-116	X	X	X	X			ON

JKV MEADOWS PHASE2 TPR1 - IDNAC-1 CIRCUIT SUMMARY & VOLTAGE DROP							
Channel	Description	Alarm Current	% Drop	Unit Load	Wire Length	Spare Current	Spare Voltage/Drop
T1A1	GAR FL P1 SOUTH	1.880A	8.16%	17	459	38%	61%
T1A2	GAR FL P2 NORTH	2.417A	7.65%	13	487	19%	63%
T1A3	2ND FL P1 & P2	2.214A	4.13%	23	882	26%	80%
EPRI	GAR FL P1 NORTH WEST	1.336A	5.00%	7	252	56%	78%
SIG	T1-V1	0.048A	0.20%	N/A	234 FL	98%	99%

T1-A TRUEALERT POWER SUPPLY - CHANNEL 1									
IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	1				
T1A1-1	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-1	X			ON
T1A1-2	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-2	X			ON
T1A1-3	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-3	X			ON
T1A1-4	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-4	X			ON
T1A1-5	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-5	X			ON
T1A1-6	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-6	X			ON
T1A1-7	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-7	X			ON
T1A1-8	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-8	X			ON
T1A1-9	STRB	4906-9251	15cd	GAR FL P1 CORR 1006	1-A1-9	X			ON
T1A1-10	STRB	4906-9251	15cd	GAR FL P1 CORR 1006	1-A1-10	X			ON
T1A1-11	STRB	4906-9251	15cd	GAR FL P1 LOBBY 1002	1-A1-11	X			ON
T1A1-12	STRB	4906-9251	75cd	GAR FL P1 LOBBY 1002	1-A1-12	X			ON
T1A1-13	STRB	4906-9251	15cd	GAR FL P1 LOBBY 1002	1-A1-13	X			ON
T1A1-14	REPEATER	4909-9601		GAR FL P2 ELEC 1012	1-A1-14	X			ON
T1A1-15	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-15	X			ON
T1A1-16	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-16	X			ON
T1A1-17	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-17	X			ON
T1A1-18	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-18	X			ON
T1A1-19	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-19	X			ON
T1A1-20	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-20	X			ON
T1A1-21	STRB	4906-9251	110cd	GAR FL P1 PARKING GARAGE 1008	1-A1-21	X			ON

T1-A TRUEALERT POWER SUPPLY - CHANNEL 2									
IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	1				
T1A2-1	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-1	X			ON
T1A2-2	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-2	X			ON
T1A2-3	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-3	X			ON
T1A2-4	STRB	4906-9251	75cd	GAR FL P2 PARKING GARAGE 1008	1-A2-4	X			ON
T1A2-5	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-5	X			ON
T1A2-6	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-6	X			ON
T1A2-7	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-7	X			ON
T1A2-8	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-8	X			ON
T1A2-9	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-9	X			ON
T1A2-10	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-10	X			ON
T1A2-11	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-11	X			ON
T1A2-12	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-12	X			ON
T1A2-13	STRB	4906-9251	110cd	GAR FL P2 PARKING GARAGE 1008	1-A2-13	X			ON

T1-A TRUEALERT POWER SUPPLY - CHANNEL 3									
IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	1				
T1A3-1	STRB	4906-9254	15cd	2ND FL P2 LOBBY 2011	1-A3-1	X			ON
T1A3-2	STRB	4906-9254	15cd	2ND FL P2 LOBBY 2011	1-A3-2	X			ON
T1A3-3	AV	49AV-WRFO	WP75	2ND FL P2 SPRINKLER BELL SPRINKLER 2016	1-A3-3	X			ON
T1A3-4	STRB	4906-9254	15cd	2ND FL P2 LOBBY 2011	1-A3-4	X			ON
T1A3-5	VO	49VO-APPLC	185cd	2ND FL P1 UNIT C - MONARCH HC 2022	1-A3-5	X			ON
T1A3-6	VO	49VOH-APPLC	185cd	2ND FL P1 UNIT C - MONARCH HC 2022	1-A3-6	X			ON
T1A3-7	VO	49VO-APPLC	185cd	2ND FL P1 UNIT C - MONARCH HC 2022	1-A3-7	X			ON
T1A3-8	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT C - MONARCH 3024	1-A3-8	X			ON
T1A3-9	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT C - MONARCH 3024	1-A3-9	X			ON
T1A3-10	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT C - MONARCH 3024	1-A3-10	X			ON
T1A3-11	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT F - WESTPORT 2021	1-A3-11	X			ON
T1A3-12	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT F - WESTPORT 2021	1-A3-12	X			ON
T1A3-13	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT F - WESTPORT 2021	1-A3-13	X			ON
T1A3-14	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT F - WESTPORT 2021	1-A3-14	X			ON
T1A3-15	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT F - WESTPORT 2021	1-A3-15	X			ON
T1A3-16	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT F - WESTPORT 2021	1-A3-16	X			ON
T1A3-17	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT F - WESTPORT 2021	1-A3-17	X			ON
T1A3-18	STRB	4906-9254	30cd	2ND FL P1 ACTIVITY 2002	1-A3-18	X			ON
T1A3-19	STRB	4906-9254	15cd	2ND FL P1 CORR 2007 BY UNIT G - BROOKSIDE 2026	1-A3-19	X			ON
T1A3-20	STRB	4906-9254	15cd	2ND FL P2 CORR 2017 BY UNIT G - BROOKSIDE 2026	1-A3-20	X			ON
T1A3-21	STRB	4906-9254	15cd	2ND FL P2 CORR 2017 BY UNIT G - BROOKSIDE 2026	1-A3-21	X			ON
T1A3-22	STRB	4906-9254	15cd	2ND FL P2 CORR 2017 BY UNIT G - BROOKSIDE 2026	1-A3-22	X			ON
T1A3-23	STRB	4906-9254	15cd	2ND FL P2 CORR 2017 BY UNIT H-1 - ROYAL 2030	1-A3-23	X			ON

T1-V1 Distributed Load Voltage Drop						
Allowable % Drop: 17.9%			Wire Res. Per Ft. 0.003070		@ 75° Celsius	
Wire Gauge: 14ga			Min. Device Voltage: 16.vdc			
Starting Voltage: 19.5vdc			% Voltage Drop 0.20%			
Circuit Capacity 2A						
Normal Operation						
Device #	PID	Candela	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device
T1-V1-1	4905-9835	30	0.003	0.009	0.009	19.49
T1-V1-2	4905-9835	12	0.003	0.012	0.012	19.49
T1-V1-3	4905-9835	12	0.003	0.015	0.015	19.48
T1-V1-4	4905-9835	12	0.003	0.018	0.018	19.48
T1-V1-5	4905-9835	19	0.003	0.022	0.022	19.48
T1-V1-6	4905-9835	12	0.003	0.025	0.025	19.48
T1-V1-7	4905-9835	12	0.003	0.027	0.027	19.47
T1-V1-8	4905-9835	12	0.003	0.029	0.029	19.47
T1-V1-9	4905-9835	20	0.003	0.032	0.032	19.47
T1-V1-10	4905-9835	12	0.003	0.033	0.033	19.47
T1-V1-11	4905-9835	12	0.003	0.035	0.035	19.47
T1-V1-12	4905-9835	12	0.003	0.036	0.036	19.46
T1-V1-13	4905-9835	21	0.003	0.037	0.037	19.46
T1-V1-14	4905-9835	12	0.003	0.038	0.038	19.46
T1-V1-15	4905-9835	12	0.003	0.039	0.039	19.46
T1-V1-16	4905-9835	12	0.003	0.039	0.039	19.46
Totals:			234 Ft.	0.048A		

T1-A1			Notification SLC Distributed Load Voltage Drop								
Starting Voltage:		29vdc		Primary Wire Gauge:		14ga		Wire Res. Per Ft.		0.003070 @ 75° Celsius	
Min. Device Voltage:		23.vdc		Home Run Wire Gauge:		14ga		Wire Res. Per Ft.		0.003070 @ 75° Celsius	
Allowable % Drop:		20.7%									
Class B Calculations											
Branch	Device #	From	Distance (Feet)	PID	Setting	Device Draw	Current at Device	Voltage Drop	Voltage at Device	% Vdrop Wire Length	
1	T1A1-1	PANEL	69	4906-9251	110cd	0.1900	1.857	0.787	28.213	Branch 1: 8.16% Length: 446	
1	T1A1-2	T1A1-1	13	4906-9251	110cd	0.1900	1.867	0.133	28.080		
1	T1A1-3	T1A1-2	50	4906-9251	110cd	0.1900	1.477	0.453	27.627		
1	T1A1-4	T1A1-3	12	4906-9251	110cd	0.1900	1.287	0.095	27.532		
1	T1A1-5	T1A1-4	37	4906-9251	110cd	0.1900	1.097	0.249	27.283		
1	T1A1-6	T1A1-5	13	4906-9251	110cd	0.1900	0.907	0.072	27.210		
1	T1A1-7	T1A1-6	73	4906-9251	110cd	0.1900	0.717	0.321	26.889		
1	T1A1-8	T1A1-7	13	4906-9251	110cd	0.1900	0.527	0.040	26.947		
1	T1A1-9	T1A1-8	33	4906-9251	15cd	0.0500	0.337	0.068	26.779		
1	T1A1-10	T1A1-9	35	4906-9251	15cd	0.0500	0.287	0.062	26.717		
1	T1A1-11	T1A1-10	23	4906-9251	15cd	0.0500	0.237	0.033	26.683		
1	T1A1-12	T1A1-11	33	4906-9251	75cd	0.1370	0.187	0.038	26.646		
1	T1A1-13	T1A1-12	42	4906-9251	15cd	0.0500	0.050	0.013	26.533		
						0.0000	0.000	0.000			
2	T1A1-14	PANEL	13	4009-9601		0.0032	0.003	0.000	29.000	Branch 2: 0%	
E1-1	T1A1-15	EPRI	93	4906-9251	110cd	0.1900	1.330	0.759	28.241		Branch E1-1: 5.04% Length: 252
E1-1	T1A1-16	T1A1-15	43	4906-9251	110cd	0.1900	1.140	0.301	27.940		
E1-1	T1A1-17	T1A1-16	13	4906-9251	110cd	0.1900	0.950	0.076	27.864		
E1-1	T1A1-18	T1A1-17	37	4906-9251	110cd	0.1900	0.760	0.173	27.691		
E1-1	T1A1-19	T1A1-18	13	4906-9251	110cd	0.1900	0.570	0.045	27.646		
E1-1	T1A1-20	T1A1-19	40	4906-9251	110cd	0.1900	0.380	0.093	27.552		
E1-1	T1A1-21	T1A1-20	13	4906-9251	110cd	0.1900	0.190	0.015	27.537		

T1-A2				Distributed Load Voltage Drop									
Starting Voltage:		29vdc		Primary Wire Gauge:		14ga		Wire Res. Per Ft.		0.003070		@ 75° Celsius	
Min. Device Voltage:		23.vdc		Home Run Wire Gauge:		14ga		Wire Res. Per Ft.		0.003070		@ 75° Celsius	
Allowable % Drop:		20.7%											
Class B Calculations													% Vdrop
Branch	Device #	From	Distance (Feet)	PID	Setting	Device Draw	Current at Device	Voltage Drop	Voltage at Device				
1	T1A2-1	PANEL	43	4906-9251	110cd	0.1900	2.417	0.638	28.362	Branch 1: 7.55% Length: 487'			
1	T1A2-2	T1A2-1	49	4906-9251	110cd	0.1900	0.517	0.156	28.206				
1	T1A2-3	T1A2-2	14	4906-9251	110cd	0.1900	0.327	0.028	28.178				
1	T1A2-4	T1A2-3	46	4906-9251	75cd	0.1370	0.137	0.039	28.140				
1	T1A2-5	T1A2-1	14	4906-9251	110cd	0.1900	1.710	0.437	28.215				
1	T1A2-6	T1A2-5	77	4906-9251	110cd	0.1900	1.520	0.719	27.496				
1	T1A2-7	T1A2-6	14	4906-9251	110cd	0.1900	1.330	0.114	27.382				
1	T1A2-8	T1A2-7	49	4906-9251	110cd	0.1900	0.380	0.114	27.268				
1	T1A2-9	T1A2-8	14	4906-9251	110cd	0.1900	0.190	0.016	27.251				
1	T1A2-10	T1A2-7	90	4906-9251	110cd	0.1900	0.760	0.420	26.821				
1	T1A2-11	T1A2-10	14	4906-9251	110cd	0.1900	0.570	0.040	26.813				
1	T1A2-12	T1A2-11	49	4906-9251	110cd	0.1900	0.380	0.114	26.799				
1	T1A2-13	T1A2-12	14	4906-9251	110cd	0.1900	0.190	0.016	26.782				

JKV MEADOWS PHASE2 NAC1 4009 NAC						
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC				
Panel Totals			0.0850	0.0850	0.1850	0.1850
Notification Appliances						
			Setting			
4098-9772	26	TRUEALARM 520HZ SOUNDER BASE W/ REMOTE LED	* 520 H	0.0000	0.1290	3.3450
4098-9773	24	TRUEALARM 520HZ SOUNDER BASE W/ CO MOD, REM LED	* 520 H	0.0000	0.1290	3.0960
4095-9835	4	TEMPORAL CODE 4 MODULE		0.0002	0.0007	0.0600
Peripheral Totals				0.0007		6.5100
RUI Totals			0	0.0000		0.0000
Address Totals			0 Addresses	0.0000		0.0000
System Totals:				Standby 0.0857	Alarm	6.6950

Battery Set #1 (Cabinet/Charger #1)		Standby	Standby	Alarm	Alarm
		Current	Total	Current	Total
Select ALL Power Supplies on this battery set:					
4009			0.0857		6.6950
Sub Total			0.0857		6.6950
Additional Current Draws:					
RUI Connected Peripheral Devices	0	x 0.0035	= 0.0000	x 0.0035	= 0.0000
MAPNET/Net Device Address Communication Current	0	x 0.000000	= 0.0000	x 0.000000	= 0.0000
Sub Total			0.0857		6.6950
Spare addressable point capacity	0%	0	x 0	= 0.0000	x 0 = 0.0000
Total			0.0857		6.6950
Standby Time =	24	Hrs	x 0.0857	= 2.0573	Standby Ah
Alarm Time =	15	Min	0.25 x 6.695	= 1.6738	Alarm Ah
Additional Spare Battery Capacity =		0%		+ 0.0000	
				+ 0.0000	
Battery Discharge Factor =		20%		+ 0.7462	
Minimum Battery Required		2081-9272 6.2AH (2x)			4.4772
Battery Supplied		2081-9274 10AH (2x)			

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.

POWER SUPPLY SUMMARY			Powered By	Standby	Alarm
Module	Qty	Description	Ext. Source	Current	Current
			Qty.		
			24vdc Aux Totals		
PANEL COMPONENTS POWERED BY POWER SUPPLY 4009-0201 1 4009 IDNET NAC EXTENDER, 120 VAC			0.0850	0.1850	
			Components		
			NAC Currents from Voltage Drops		
			IDNAC Current Boost for 29vdc Regulated Output *		
			MAPNET/IDNet Device Addresses used		
			0	0.0000	0.0000
			Total	0.0937	6.6950

4009	Configuration
	Capacity: 8.000A
	Ckt. Capacity: 2.000A
	Aux. Capacity: 0.500A

JKV MEADOWS PHASE2 NAC2 4009 NAC						
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC	0.0850	0.0850	0.1850	0.1850
Panel Totals				0.0850		0.1850
Notification Appliances						
			Setting			
4098-9772	49	TRUEALARM 520HZ SOUNDER BASE W/ REMOTE LED	* 520 H 0.0000	0.0000	0.1290	6.3210
4098-9773	1	TRUEALARM 520HZ SOUNDER BASE W/ CO MOD, REM LED	* 520 H 0.0000	0.0000	0.1290	0.1290
4905-9835	4	TEMPORAL CODE 4 MODULE	0.0002	0.0007	0.0150	0.0600
Peripheral Totals				0.0007		8.5100
RUI Totals			0	0.0000		0.0000
Address Totals			0	0.0000		0.0000
System Totals:			Standby	0.0857	Alarm	6.6950

Battery Set #1 (Cabinet/Charger #1)				Standby	Standby	Alarm	Alarm
				Current	Total	Current	Total
Select ALL Power Supplies on this battery set:							
4009					0.0857		6.6950
				Sub Total	0.0857		6.6950
Additional Current Draws:							
	RUI Connected Peripheral Devices	0	x 0.0035	= 0.0000	x 0.0035	= 0.0000	
	MAPNETIDNet Device Address Communication Current	0	x 0.000000	= 0.0000	x 0.000000	= 0.0000	
				Sub Total	0.0857		6.6950
Spare addressable point capacity				0%	0	x 0	= 0.0000
				Total	0.0857		6.6950
Standby Time =				24	Hrs	x 0.0857	= 2.0573 Standby Ah
Alarm Time =				15	Min	0.25 x 6.695	= 1.6738 Alarm Ah
Additional Spare Battery Capacity =				0%			3.7310
							+ 0.0000
							3.7310
Battery Discharge Factor =				20%			+ 0.7462
Minimum Battery Required				2081-9272 6.2AH (2x)			4.4772
Battery Supplied				2081-9274 10AH (2x)			

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above

POWER SUPPLY SUMMARY			Powered By Ext. Source	Standby Current	Alarm Current
Module	Qty	Description	Qty.	Current	Current
PANEL COMPONENTS POWERED BY POWER SUPPLY				24vdc Aux Totals	
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC		0.0850	0.1850
				Components	
				NAC Currents from Voltage Drops	
				IDNAC Current Boost for 29vdc Regulated Output *	
				MAPNET/IDNET Device Addresses used	
				0	0.0000
				Total	0.0857

4009	Configuration
	Capacity: 8.000A
	Ckt. Capacity: 2.000A
	Aux. Capacity: 0.500A

VOLTAGE DROP SUMMARY					Class B Spare Circuit Capacity
Plan Circuit	Description		Load	% Drop	
T1:N1:H1	2ND FL P2 NORTH EAST	SIG1	1.892A	8.69%	15.40%
T1:N1:H2	2ND FL P2 NORTH EAST	SIG2	1.963A	10.29%	21.35%
T1:N1:H3	2ND FL P1 NORTH	SIG3	1.434A	7.35%	28.30%
T1:N1:H4	2ND FL P1 SOUTH	SIG4	1.821A	14.81%	8.95%
			6.510A	Total	

POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES

T1N13H1 Distributed Load Voltage Drop							
Allowable % Drop:				Wire Res. Per Ft.		@ 75° Celsius	
Wire Gauge:				Min. Device Voltage:			
Starting Voltage:				% Voltage Drop			
Circuit Capacity							
17.9%				0.003070			
14ga				16vdc			
19.5vdc				9.69%			
2A							
Normal Operation							
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device	
T1N13H1-1	4098-0773	520 Hz	15	0.129	0.156	19.34	
T1N13H1-2	4098-0772	520 Hz	33	0.129	0.473	19.03	
T1N13H1-3	4098-0773	520 Hz	16	0.129	0.613	18.89	
T1N13H1-4	4098-0773	520 Hz	35	0.129	0.894	18.61	
T1N13H1-5	4098-0772	520 Hz	15	0.129	1.002	18.50	
T1N13H1-6	4098-0772	520 Hz	43	0.129	1.279	18.22	
T1N13H1-7	4098-0773	520 Hz	17	0.129	1.374	18.13	
T1N13H1-8	4098-0773	520 Hz	34	0.129	1.539	17.96	
T1N13H1-9	4098-0772	520 Hz	16	0.129	1.684	17.90	
T1N13H1-10	4098-0772	520 Hz	48	0.129	1.760	17.74	
T1N13H1-11	4098-0773	520 Hz	16	0.129	1.800	17.70	
T1N13H1-12	4098-0773	520 Hz	45	0.129	1.875	17.62	
T1N13H1-13	4098-0772	520 Hz	15	0.129	1.889	17.61	
4905-9835				0.015	1.889	17.61	

T1N1H32 Distributed Load Voltage Drop							
Allowable % Drop: 17.9% Wire Gauge: 14ga Starting Voltage: 19.5vdc Ckt Capacity: 2A				Wire Res. Per Ft. 0.003070 @ 75° Celsius Min. Device Voltage: 16vdc % Voltage Drop: 10.25%			
Normal Operation							
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device	
T1N1H2-1	4098-9772	520 Hz	56	0.129	0.537	18.96	
T1N1H2-2	4098-9773	520 Hz	16	0.129	0.678	18.82	
T1N1H2-3	4098-9773	520 Hz	34	0.129	0.951	18.55	
T1N1H2-4	4098-9772	520 Hz	16	0.129	0.666	18.83	
T1N1H2-5	4098-9772	520 Hz	43	0.129	1.343	18.16	
T1N1H2-6	4098-9773	520 Hz	16	0.129	1.433	18.07	
T1N1H2-7	4098-9773	520 Hz	35	0.129	1.602	17.90	
T1N1H2-8	4098-9772	520 Hz	16	0.129	1.667	17.83	
T1N1H2-9	4098-9772	520 Hz	62	0.129	1.869	17.63	
T1N1H2-10	4098-9773	520 Hz	15	0.129	1.906	17.59	
T1N1H2-11	4098-9773	520 Hz	47	0.129	1.985	17.51	
T1N1H2-12	4098-9772	520 Hz	15	0.129	1.989	17.59	
	4905-9835			0.015	1.998	17.50	
Totals:				371 Ft.	1.563A		

T1N1H3 Distributed Load Voltage Drop							
Allowable % Drop:				Wire Res. Per Ft.		@ 75° Celsius	
Wire Gauge:				Min. Device Voltage		16vdc	
Starting Voltage:				% Voltage Drop		7.33%	
Ckt Capacity							
14ga							
19.5vdc							
2A							
Normal Operation							
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device	
T1N1H3-1	4098-0772	520 Hz	38	0.129	0.335	19.17	
T1N1H3-3	4098-0772	520 Hz	15	0.129	0.455	19.05	
T1N1H3-4	4098-0772	520 Hz	16	0.129	0.570	18.93	
T1N1H3-4	4098-0772	520 Hz	48	0.129	0.879	18.62	
T1N1H3-5	4098-0773	520 Hz	14	0.129	0.958	18.54	
T1N1H3-6	4098-0773	520 Hz	30	0.129	1.103	18.40	
T1N1H3-7	4098-0772	520 Hz	14	0.129	1.180	18.34	
T1N1H3-8	4098-0772	520 Hz	45	0.129	1.307	18.19	
T1N1H3-9	4098-0773	520 Hz	14	0.129	1.341	18.16	
T1N1H3-10	4098-0773	520 Hz	47	0.129	1.420	18.08	
T1N1H3-11	4098-0772	520 Hz	15	0.129	1.433	18.07	
4905-9835				0.015	1.433	18.07	

T1N13H4 Distributed Load Voltage Drop							
Allowable % Drop: Wire Gauge: Starting Voltage: Ckt Capacity			149g 18 AWG 19.5vdc 2.2A			Wire Res. Per Ft. Min. Device Voltage % Voltage Drop	0.003070 16vdc 14.81%
@ 75° Celsius							
Normal Operation							
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device	
T1N13H4-1	4098-9772	520 Hz	73	0.129	0.816	18.68	
T1N13H4-2	4098-9773	520 Hz	15	0.129	0.972	18.53	
T1N13H4-3	4098-9772	520 Hz	5	0.129	1.116	18.38	
T1N13H4-4	4098-9772	520 Hz	51	0.129	1.565	17.93	
T1N13H4-5	4098-9773	520 Hz	15	0.129	1.685	17.81	
T1N13H4-6	4098-9772	520 Hz	15	0.129	1.794	17.71	
T1N13H4-7	4098-9773	520 Hz	80	0.129	2.308	17.19	
T1N13H4-8	4098-9772	520 Hz	15	0.129	2.392	17.10	
T1N13H4-9	4098-9773	520 Hz	14	0.129	2.517	16.94	
T1N13H4-10	4098-9772	520 Hz	14	0.129	2.644	16.81	
T1N13H4-11	4098-9772	520 Hz	45	0.129	2.761	16.74	
T1N13H4-12	4098-9773	520 Hz	14	0.129	2.795	16.70	
T1N13H4-13	4098-9773	520 Hz	48	0.129	2.876	16.62	
T1N13H4-14	4098-9772	520 Hz	19	0.129	2.889	16.61	
				0.015	2.889	16.61	

VOLTAGE DROP SUMMARY					Class B Spare Circuit Capacity
Plan Circuit	Description	Load	% Drop		
T1:N2-H1	3RD FL P1 NORTH EAST	SG14 1.682A	9.72%	15.48%	
T1:N2-H2	3RD FL P1 NORTH EAST	SG12 1.563A	10.22%	21.85%	
T1:N2-H3	3RD FL P1 NORTH	SG13 1.434A	7.96%	28.30%	
T1:N2-H4	3RD FL P1 SOUTH	SG14 1.821A	14.76%	8.95%	
		6.510A	Total		

POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES

Distributed Load Voltage Drop							
Allowable % Drop:			Wire Res. Per Ft.		@ 75° Celsius		
Wire Gauge:			Min. Device Voltage:				
Starting Voltage:			% Voltage Drop				
Circuit Capacity							
			Normal Operation				
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device	
T1:N2:H1-1	4098-9773	520 Hz	16	0.129	0.166	19.33	
T1:N2:H1-2	4098-9772	520 Hz	33	0.129	0.463	19.02	
T1:N2:H1-3	4098-9772	520 Hz	16	0.129	0.624	18.88	
T1:N2:H1-4	4098-9772	520 Hz	34	0.129	0.896	18.69	
T1:N2:H1-5	4098-9772	520 Hz	15	0.129	1.005	18.50	
T1:N2:H1-6	4098-9772	520 Hz	44	0.129	1.267	18.21	
T1:N2:H1-7	4098-9772	520 Hz	17	0.129	1.363	18.12	
T1:N2:H1-8	4098-9772	520 Hz	33	0.129	1.543	17.93	
T1:N2:H1-9	4098-9772	520 Hz	16	0.129	1.688	17.89	
T1:N2:H1-10	4098-9772	520 Hz	49	0.129	1.768	17.76	
T1:N2:H1-11	4098-9772	520 Hz	16	0.129	1.907	17.69	
T1:N2:H1-12	4098-9772	520 Hz	45	0.129	1.883	17.62	
T1:N2:H1-13	4098-9772	520 Hz	15	0.129	1.896	17.60	
	4905-9835			0.015	1.896	17.60	

T1-N2-H2 Distributed Load Voltage Drop									
Allowable % Drop: 17.9% Wire Gauge: 14ga Starting Voltage: 19.5vdc Ckt Capacity: 2.5A				Wire Res. Per Ft. 0.003070 @ 75° Celsius Min. Device Voltage: 16.vdc % Voltage Drop: 10.25%					
Normal Operation									
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device			
T1-N2-H2-1	4098-9772	520 Hz	56	0.129	0.537	18.96			
T1-N2-H2-2	4098-9772	520 Hz	16	0.129	0.678	18.82			
T1-N2-H2-3	4098-9772	520 Hz	34	0.129	0.951	18.55			
T1-N2-H2-4	4098-9772	520 Hz	16	0.129	1.066	18.43			
T1-N2-H2-5	4098-9772	520 Hz	43	0.129	1.343	18.16			
T1-N2-H2-6	4098-9772	520 Hz	16	0.129	1.343	18.07			
T1-N2-H2-7	4098-9772	520 Hz	35	0.129	1.602	17.90			
T1-N2-H2-8	4098-9772	520 Hz	16	0.129	1.667	17.83			
T1-N2-H2-9	4098-9772	520 Hz	62	0.129	1.869	17.63			
T1-N2-H2-10	4098-9772	520 Hz	15	0.129	1.906	17.59			
T1-N2-H2-11	4098-9772	520 Hz	47	0.129	1.985	17.51			
T1-N2-H2-12	4098-9772	520 Hz	16	0.129	1.999	17.50			
	4905-9835			0.015	1.999	17.50			
Totals:				372 Ft.	1.563A				

T1-N2-H3 Distributed Load Voltage Drop									
Allowable % Drop:				Wire Res. Per Ft.		@ 75° Celsius			
Wire Gauge:				Min. Distance		Voltage Drop			
Starting Voltage:				% Voltage Drop					
Ckt Capacity:									
179A				0.00370		16 vac			
19.5 vac				7.36%					
2A									
Normal Operation									
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device			
T1-N2-H3-1	4098-9772	520 Hz	38	0.129	0.335	19.17			
T1-N2-H3-2	4098-9772	520 Hz	15	0.129	0.335	19.17			
T1-N2-H3-3	4098-9772	520 Hz	8	0.129	0.570	18.93			
T1-N2-H3-4	4098-9772	520 Hz	48	0.129	0.879	18.62			
T1-N2-H3-5	4098-9772	520 Hz	14	0.129	0.958	18.54			
T1-N2-H3-6	4098-9772	520 Hz	30	0.129	1.103	18.49			
T1-N2-H3-7	4098-9772	520 Hz	14	0.129	1.160	18.34			
T1-N2-H3-8	4098-9772	520 Hz	45	0.129	1.307	18.19			
T1-N2-H3-9	4098-9772	520 Hz	14	0.129	1.341	18.16			
T1-N2-H3-10	4098-9772	520 Hz	48	0.129	1.422	18.08			
T1-N2-H3-11	4098-9772	520 Hz	15	0.129	1.435	18.07			
4905-9835				0.015	1.435	18.07			

Ti-Ni2-H4 Distributed Load Voltage Drop									
Allowable % Drop: Wire Gauge: 14g Starting Voltage: 17.9v CUt Capacity: 2A				Wire Res. Per Ft: Min. Distance: 0.003070 % Voltage Drop: 16.6vc		@ 75° Celsius 14.76%			
		Normal Operation							
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device			
Ti-Ni2-H4-1	4098-9772	520 Hz	72	0.129	0.865	18.69			
Ti-Ni2-H4-2	4098-9772	520 Hz	15	0.129	0.181	18.54			
Ti-Ni2-H4-3	4098-9772	520 Hz	15	0.129	1.105	18.44			
Ti-Ni2-H4-4	4098-9772	520 Hz	51	0.129	1.554	17.85			
Ti-Ni2-H4-5	4098-9772	520 Hz	15	0.129	1.674	17.83			
Ti-Ni2-H4-6	4098-9772	520 Hz	15	0.129	1.782	17.72			
Ti-Ni2-H4-7	4098-9772	520 Hz	80	0.287	2.287	17.20			
Ti-Ni2-H4-8	4098-9772	520 Hz	15	0.129	2.381	17.12			
Ti-Ni2-H4-9	4098-9772	520 Hz	34	0.129	2.546	16.95			
Ti-Ni2-H4-10	4098-9772	520 Hz	14	0.129	2.803	16.80			
Ti-Ni2-H4-11	4098-9772	520 Hz	45	0.129	2.749	16.75			
Ti-Ni2-H4-12	4098-9772	520 Hz	14	0.129	2.784	16.72			
Ti-Ni2-H4-13	4098-9772	520 Hz	48	0.129	2.864	16.64			
Ti-Ni2-H4-14	4098-9772	520 Hz	15	0.129	2.878	16.62			
4905-9835				0.015	2.878	16.82			



**Johnson
Controls**

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JKV MEADOWS PHASE 2 FIRE ALARM

**JKV MEADOWS BUILDING
1820 NORTH W OBRIEN RD
LEES SUMMIT, MO 64081-0000**

[illegible]

REVISION 1	
DRAWN BY:	GOPINATH M G
CHECKED BY:	DIRK SAMUEL
ISSUE DATE:	9/3/21
JOB #:	332431326
PROJECT #:	332 621373401
JOHNSON CONTROLS © 2021	
SYSTEM: FIRE ALARM SYSTEM	

SHEET:

CALCULATIONS AND SCHEDULES - NAC1 & NAC2

FA-604

FILE PATH: C:\Users\phat\Johnson Controls\Projects\Electronics - MeadowsPhase 2\CD\Drawings\Systems\FA-601.dwg

LAST SAVED BY: JACWASD

LAST PRINTED: 10/26/2021 2:08:29 PM

30" x 42" - Arch E Size

JKV MEADOWS PHASE2 NAC3 4009 NAC					
Module	Qty	Description	Standby Current	Total Standby	Alarm Current
Panel Equipment					
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC	0.0850	0.0850	0.1850
Panel Totals				0.0850	0.1850
Notification Appliances					
Setting					
4098-9772	49	TRUEALARM 520HZ SOUNDER BASE W/ REMOTE LED	* 520 H	0.0000	0.1290
4098-9773	1	TRUEALARM 520HZ SOUNDER BASE W/ CO MOD, REM LED	* 520 H	0.0000	0.1290
4905-9835	4	TEMPORAL CODE 4 MODULE	0.0002	0.0007	0.0150
Peripheral Totals				0.0007	6.5100
RUI Totals			0	0.0000	0.0000
Address Totals			0 Addresses	0.0000	0.0000
System Totals:			Standby	0.0857	Alarm 6.6950

Battery Set #1 (Cabinet/Charger #1)					Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set:								
4009						0.0857		6.6950
Sub Total						0.0857		6.6950
Additional Current Draws:								
RUI Connected Peripheral Devices					0	x 0.0035	= 0.0000	x 0.0035 = 0.0000
MAPNET/IDNet Device Address Communication Current					0	x 0.000000	= 0.0000	x 0.000000 = 0.0000
Sub Total						0.0857		6.6950
Spare addressable point capacity					0%	0	x 0	= 0.0000
Total						0.0857		6.6950
Standby Time =					24 Hrs	x 0.0857	= 2.0573	Standby Ah
Alarm Time =					15 Min	0.25 x 6.695	= 1.6738	Alarm Ah
Additional Spare Battery Capacity =					0%		+ 0.0000	
Battery Discharge Factor =					20%		+ 0.7462	
Minimum Battery Required					2081-9272 6.2AH (2x)		4.4772	
Battery Supplied					2081-9274 10AH (2x)			

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.

POWER SUPPLY SUMMARY				Powered By Ext. Source	Standby Current	Alarm Current
Module	Qty	Description				
PANEL COMPONENTS POWERED BY POWER SUPPLY						
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC		0.0850	0.1850	
Components						
NAC Currents from Voltage Drops					0.0850	0.1850
IDNac Current Boost for 29vdc Regulated Output *					0.0007	6.5100
MAPNET/IDNet Device Addresses used					0.0000	0.0000
Total					0.0857	6.6950

4009 SUMMARY			
Qty	Total Standby	Total Alarm	
1	0.0850	0.1850	
Components			
NAC Currents from Voltage Drops			
IDNac Current Boost for 29vdc Regulated Output *			
MAPNET/IDNet Device Addresses used			
Total			

4009 Configuration	
Capacity:	8.000A
Ckt. Capacity:	2.000A
Aux. Capacity:	0.500A

JKV MEADOWS PHASE2 NAC4 4009 NAC					
Module	Qty	Description	Standby Current	Total Standby	Alarm Current
Panel Equipment					
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC	0.0850	0.0850	0.1850
Panel Totals				0.0850	0.1850
Notification Appliances					
Setting					
4098-9772	49	TRUEALARM 520HZ SOUNDER BASE W/ REMOTE LED	* 520 H	0.0000	0.1290
4098-9773	1	TRUEALARM 520HZ SOUNDER BASE W/ CO MOD, REM LED	* 520 H	0.0000	0.1290
4905-9835	4	TEMPORAL CODE 4 MODULE	0.0002	0.0007	0.0150
Peripheral Totals				0.0007	6.5100
RUI Totals			0	0.0000	0.0000
Address Totals			0 Addresses	0.0000	0.0000
System Totals:			Standby	0.0857	Alarm 6.6950

Battery Set #1 (Cabinet/Charger #1)					Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set:								
4009						0.0857		6.6950
Sub Total						0.0857		6.6950
Additional Current Draws:								
RUI Connected Peripheral Devices					0	x 0.0035	= 0.0000	x 0.0035 = 0.0000
MAPNET/IDNet Device Address Communication Current					0	x 0.000000	= 0.0000	x 0.000000 = 0.0000
Sub Total						0.0857		6.6950
Spare addressable point capacity					0%	0	x 0	= 0.0000
Total						0.0857		6.6950
Standby Time =					24 Hrs	x 0.0857	= 2.0573	Standby Ah
Alarm Time =					15 Min	0.25 x 6.695	= 1.6738	Alarm Ah
Additional Spare Battery Capacity =					0%		+ 0.0000	
Battery Discharge Factor =					20%		+ 0.7462	
Minimum Battery Required					2081-9272 6.2AH (2x)		4.4772	
Battery Supplied					2081-9274 10AH (2x)			

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.

POWER SUPPLY SUMMARY				Powered By Ext. Source	Standby Current	Alarm Current
Module	Qty	Description				
PANEL COMPONENTS POWERED BY POWER SUPPLY						
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC		0.0850	0.1850	
Components						
NAC Currents from Voltage Drops					0.0850	0.1850
IDNac Current Boost for 29vdc Regulated Output *					0.0007	6.5100
MAPNET/IDNet Device Addresses used					0.0000	0.0000
Total					0.0857	6.6950

4009 SUMMARY			
Qty	Total Standby	Total Alarm	
1	0.0850	0.1850	
Components			
NAC Currents from Voltage Drops			
IDNac Current Boost for 29vdc Regulated Output *			
MAPNET/IDNet Device Addresses used			
Total			

4009 Configuration	
Capacity:	8.000A
Ckt. Capacity:	2.000A
Aux. Capacity:	0.500A

VOLTAGE DROP SUMMARY					Class B Spare Circuit Capacity
Plan Circuit	Description	Load	% Drop		
T1-N3-H1	4TH FL P2 NORTH EAST	SI01 1.692A	9.72%		15.40%
T1-N3-H2	4TH FL P2 NORTH EAST	SI02 1.563A	10.25%		21.85%
T1-N3-H3	4TH FL P1 NORTH	SI03 1.434A	7.36%		28.30%
T1-N3-H4	4TH FL P1 SOUTH	SI04 1.821A	14.76%		8.95%
				6.510A	Total

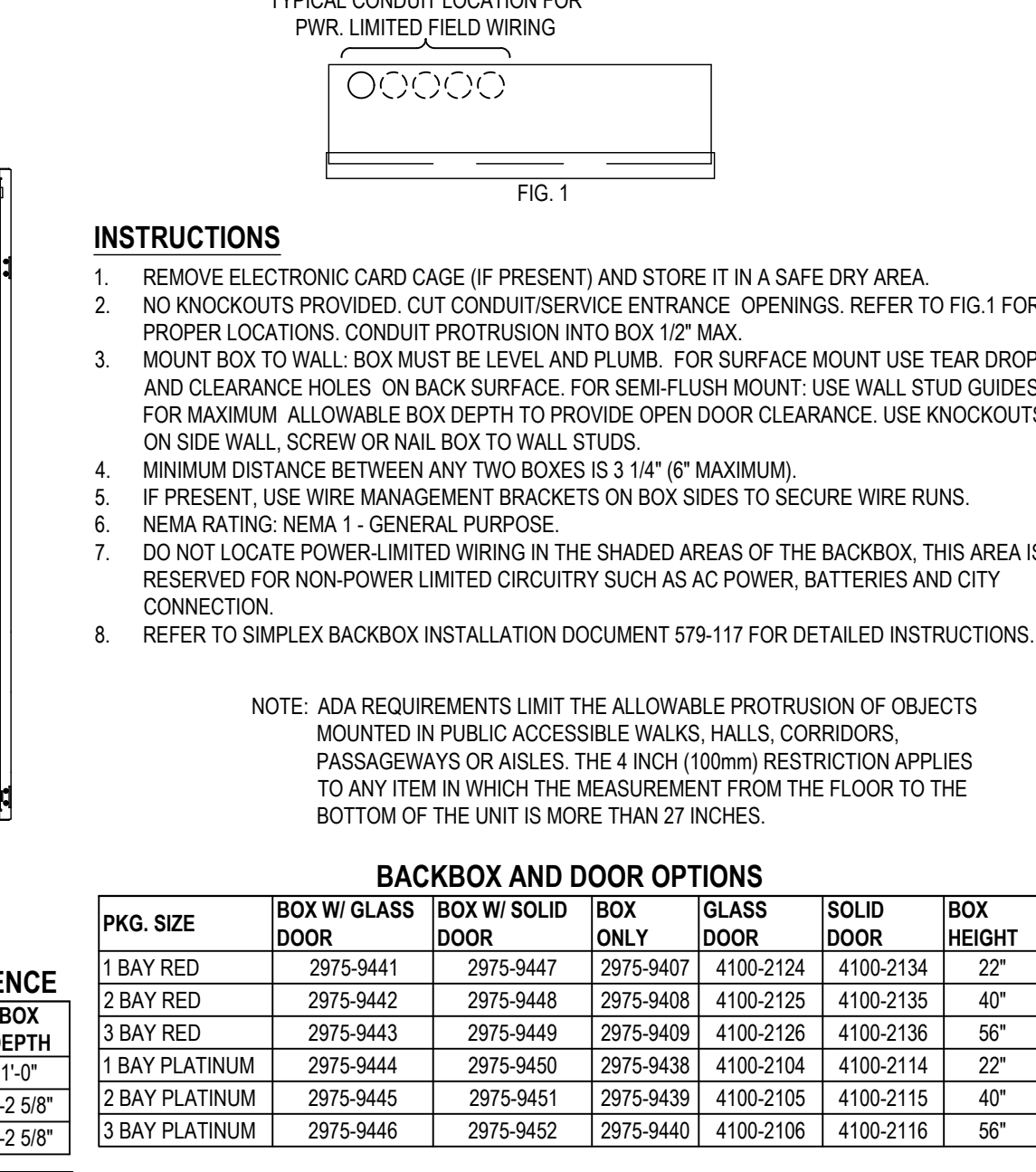
POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

T1-N3-H1 Distributed Load Voltage Drop						
Allowable % Drop: 17.9%			Wire Res. Per Ft. 0.003070		@ 75° Celsius	
Wire Gauge: 14ga			Min. Device Voltage: 16.vdc			
Starting Voltage: 19.5vdc			% Voltage Drop: 9.72%			
Circuit Capacity 2.A						
Normal Operation						
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device
T1-N3-H1-1	4098-9773	520 Hz	15	0.129	0.156	19.34
T1-N3-H1-2	4098-9772	520 Hz	34	0.129	0.482	19.02
T1-N3-H1-3	4098-9772	520 Hz	16	0.129	0.623	18.88
T1-N3-H1-4	4098-9772	520 Hz	34	0.129	0.895	18.60
T1-N3-H1-5	4098-9772	520 Hz	15	0.129	1.004	18.50
T1-N3-H1-6	4098-9772	520 Hz	44	0.129	1.287	18.21
T1-N3-H1-7	4098-9772	520 Hz	17	0.129	1.382	18.12
T1-N3-H1-8	4098-9772	520 Hz	33	0.129	1.542	17.96
T1-N3-H1-9	4098-9772	520 Hz	16	0.129	1.607	17.89
T1-N3-H1-10	4098-9772	520 Hz	49	0.129	1.767	17.73
T1-N3-H1-11	4098-9772	520 Hz	16	0.129	1.806	17.69
T1-N3-H1-12	4098-9772	520 Hz	45	0.129	1.882	17.62
T1-N3-H1-13	4098-9772	520 Hz	15	0.129	1.895	17.60
	4905-9835			0.015	1.895	17.60
Totals:			349 Ft.	1.692A		

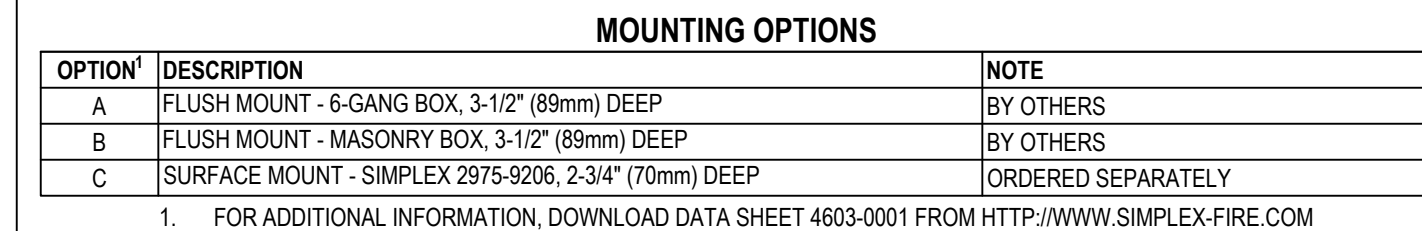
T1-N3-H2 Distributed Load Voltage Drop						
Allowable % Drop: 17.9%			Wire Res. Per Ft. 0.003070		@ 75° Celsius	
Wire Gauge: 14ga			Min. Device Voltage: 16.vdc			
Starting Voltage: 19.5vdc			% Voltage Drop			
Ckt Capacity 2.A						
Normal Operation						
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device
T1-N3-H2-1	4098-9772	520 Hz	55	0.129	0.528	18.97
T1-N3-H2-2	4098-9772	520 Hz	16	0.129	0.669	18.83
T1-N3-H2-3	4098-9772	520 Hz	34	0.129	0.941	18.56
T1-N3-H2-4	4098-9772	520 Hz	16	0.129	1.057	18.44
T1-N3-H2-5	4098-9772	520 Hz	43	0.129	1.333	18.17
T1-N3-H2-6	4098-9772	520 Hz	16	0.129	1.423	18.08
T1-N3-H2-7	4098-9772	520 Hz	35	0.129	1.593	17.91
T1-N3-H2-8	4098-9772	520 Hz	16	0.129	1.658	17.84
T1-N3-H2-9	4098-9772	520 Hz	62	0.129	1.860	17.64
T1-N3-H2-10	4098-9772	520 Hz	15	0.129	1.897	17.60
T1-N3-H2-11	4098-9772	520 Hz	47	0.129	1.976	17.52
T1-N3-H2-12	4098-9772	520 Hz	16	0.129	1.990	17.51
	4905-9835			0.015	1.990	17.51
Totals:			371 Ft.	1.563A		

T1-N3-H3 Distributed Load Voltage Drop						
Allowable % Drop:			17.9%	Wire Res. Per Ft.		0.003070 @ 75° Celsius
Wire Gauge:			14ga	Min. Device Voltage:		16.vdc
Starting Voltage:			19.5vdc	% Voltage Drop:		7.36%
Ckt Capacity:			2.A			
Normal Operation						
Device #	PID	Setting	Distance (Feet)	Device Current	Voltage Drop	Voltage At Device
T1-N3-H3-1	4098-9772	520 Hz	38	0.129	0.335	19.17
T1-N3-H3-2	4098-9772	520 Hz	15	0.129	0.455	19.05
T1-N3-H3-3	4098-9772	520 Hz	16	0.129	0.510	18.93
T1-N3-H3-4	4098-9772	520 Hz	48	0.129	0.879	18.62
T1-N3-H3-5	4098-9772	520 Hz	14	0.129	0.958	18.54
T1-N3-H3-6	4098-9772	520 Hz	30	0.129	1.103	18.40
T1-N3-H3-7	4098-9772	520 Hz	14	0.129	1.160	18.34
T1-N3-H3-8	4098-9772	520 Hz	45	0.129	1.307	18.19
T1-N3-H3-9	4098-9772	520 Hz	14	0.129	1.341	18.16
T1-N3-H3-10	4098-9772	520 Hz	48	0.129	1.422	18.08
T1-N3-H3-11	4098-9772	520 Hz	15	0.129	1.435	18.07
4905-9835				0.015	1.435	18.07
Totals:			297 Ft.	1.434A		

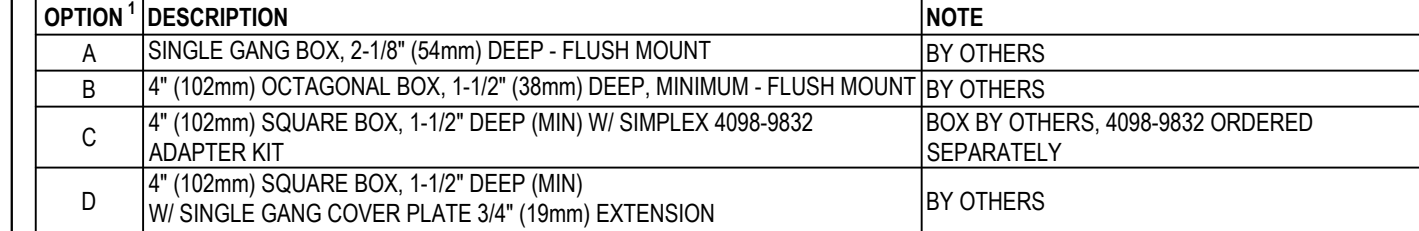
SIMPLEX 4100es SERIES



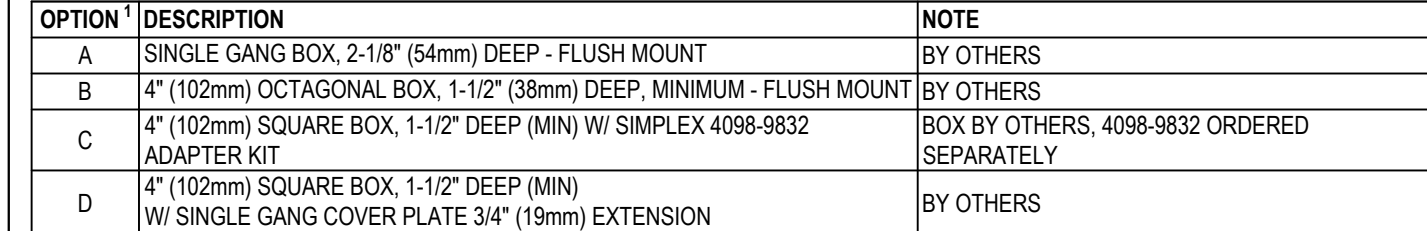
SIMPLEX 4009 IDNAC REPEATER



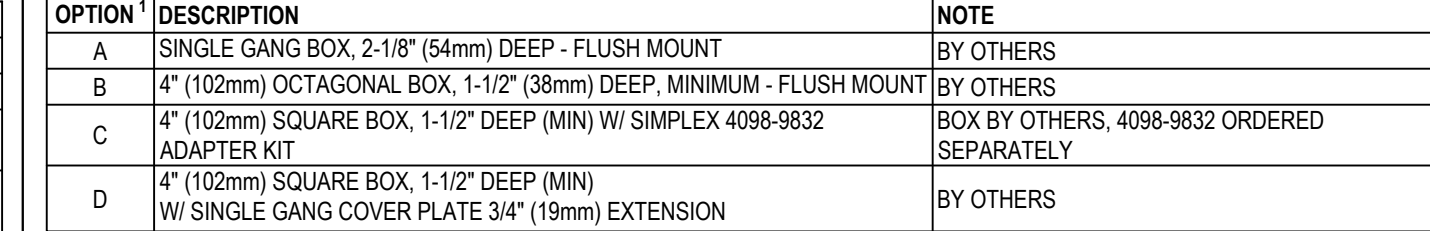
SIMPLI EX 4098-9792



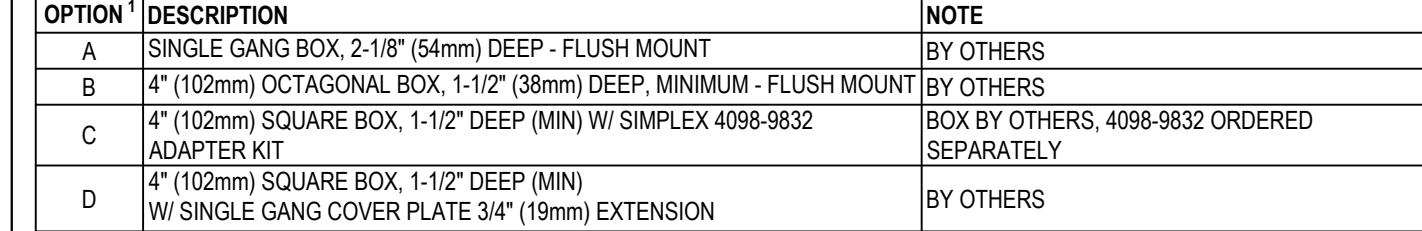
SIMPLI EX 4098-9770



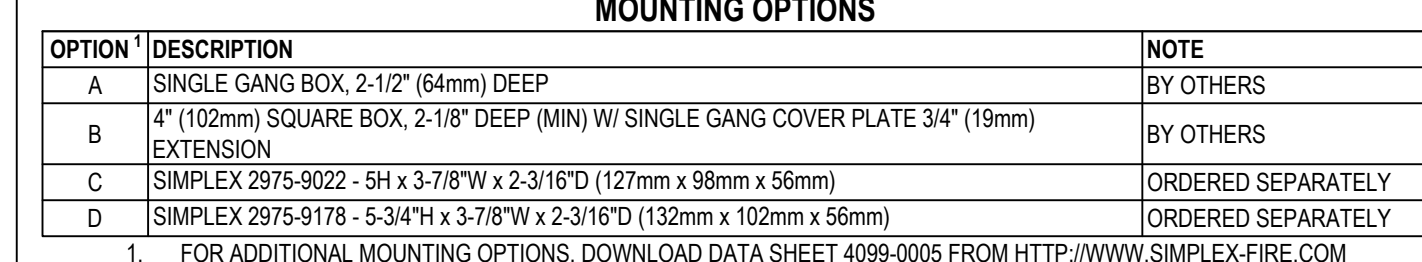
SIMPLIFILE 4098-9772



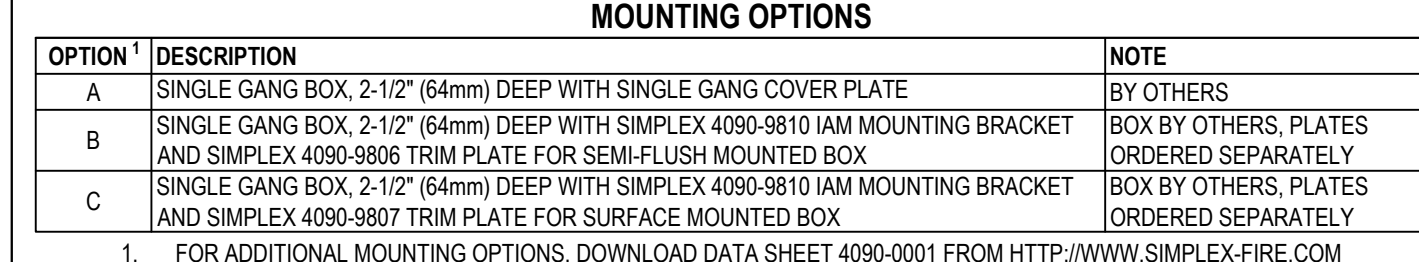
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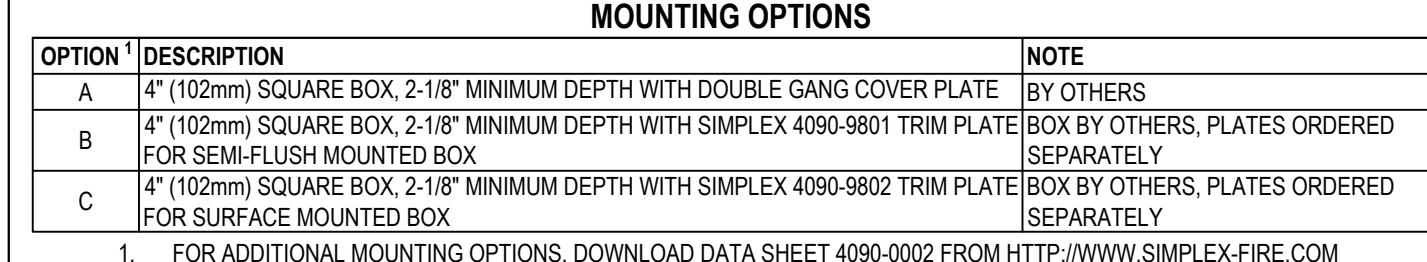
SIMPLIFX 4099 SERIES



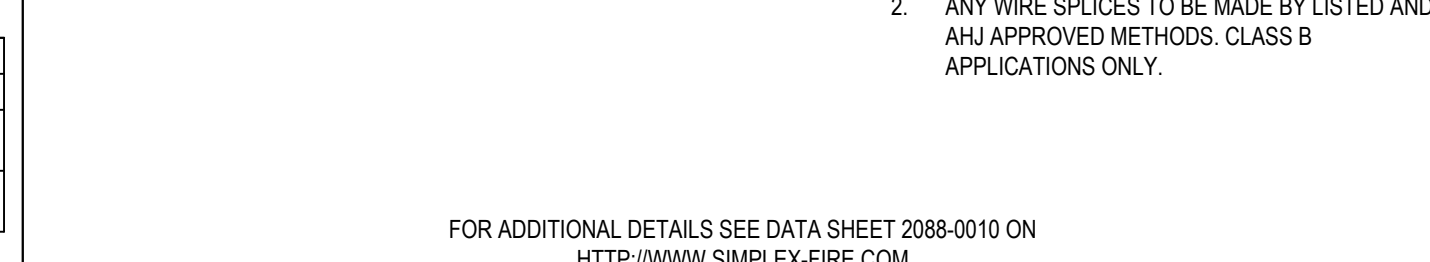
SIMPLIFILE 4090-9001 (IAM)



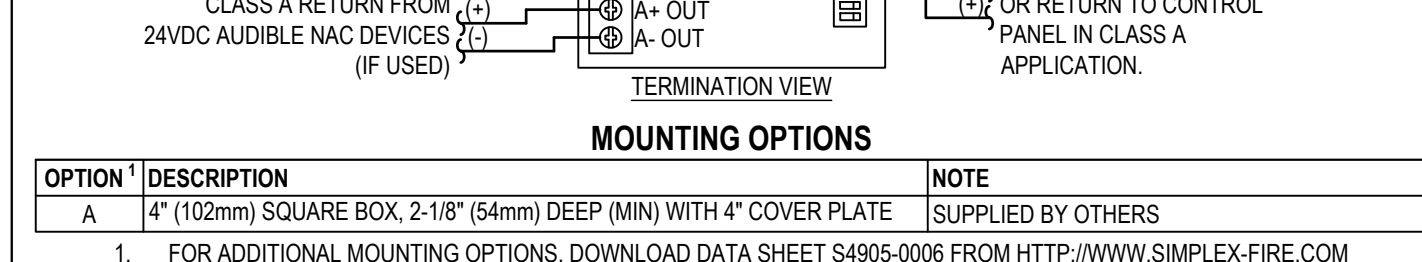
SIMPLIFILE 4090-9002



SIMPLIFX 2088-9010 / APOLO AMERICA MR-201/0



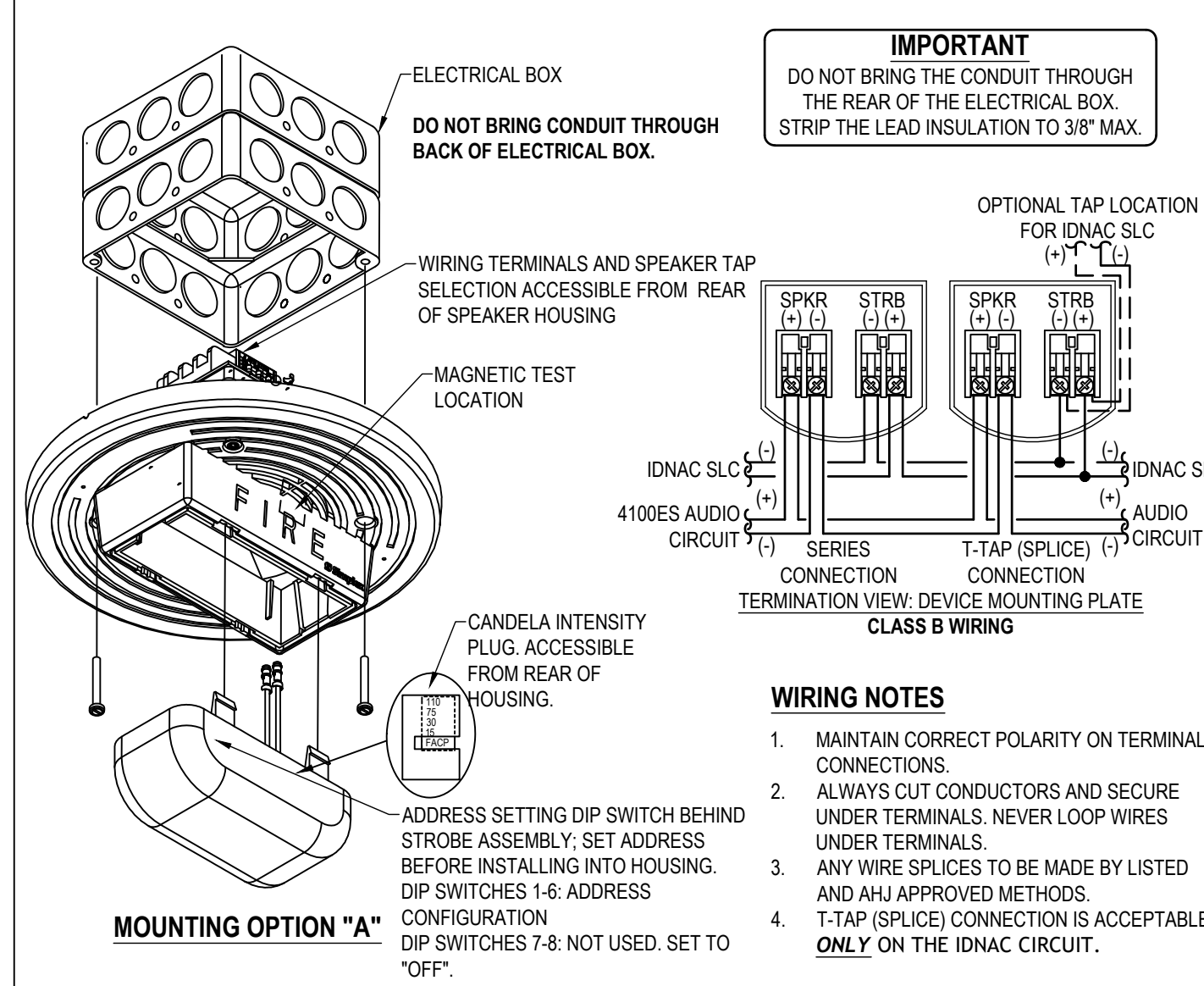
SIMPLI EX 4905-9835



30" x 42" inch E Size
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Document M-05-1001 Rev. 3

TrueAlert ADDRESSABLE APPLIANCES

SIMPLEX 4906 SERIES CEILING MOUNTED SPEAKER / VISUAL

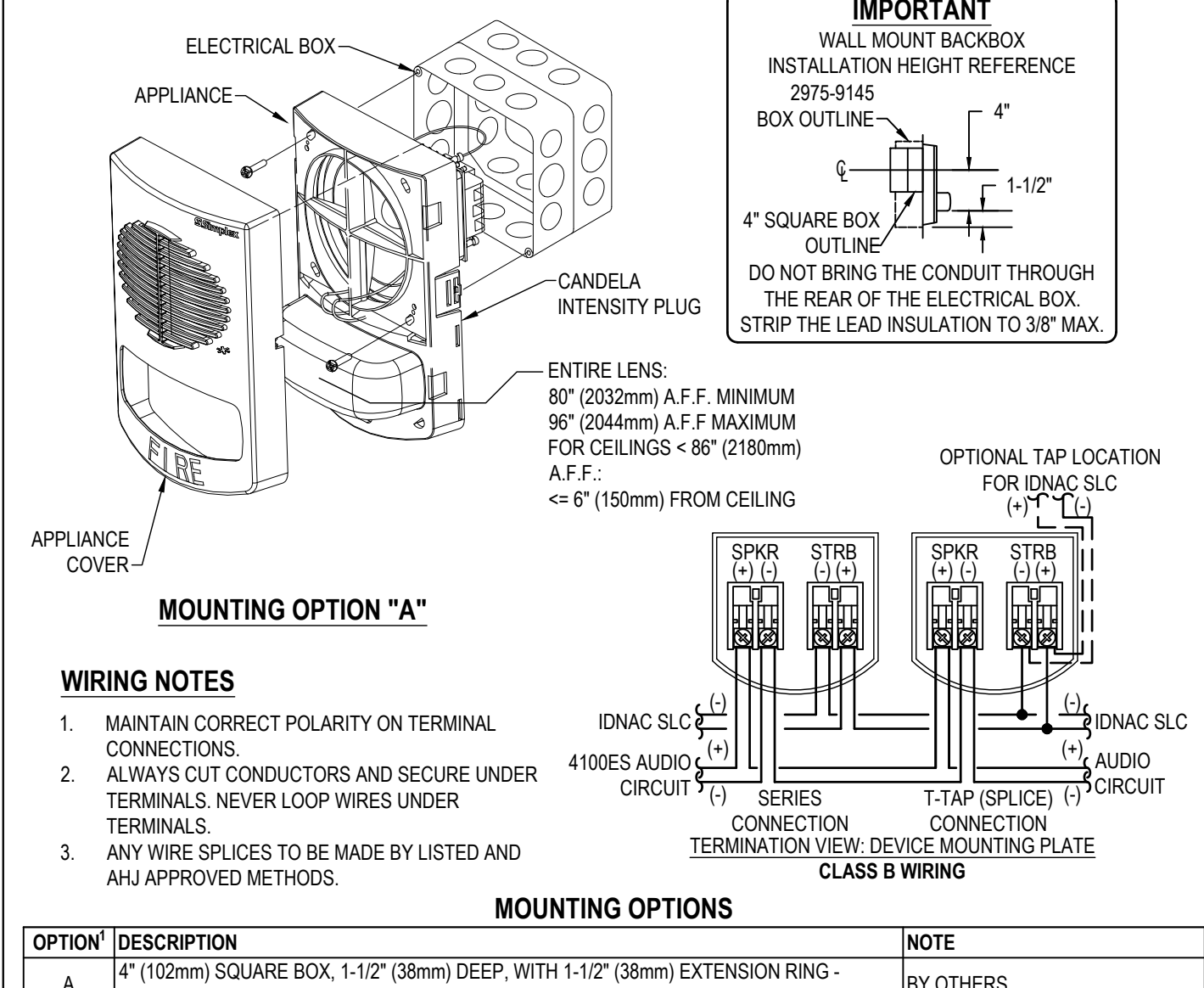


OPTION	DESCRIPTION	NOTE
A	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS
C	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4906-006 FROM HTTP://WWW.SIMPLEX-FIRE.COM

TrueAlert ADDRESSABLE APPLIANCES

SIMPLEX 4906 SERIES WALL MOUNTED SPEAKER / VISUAL

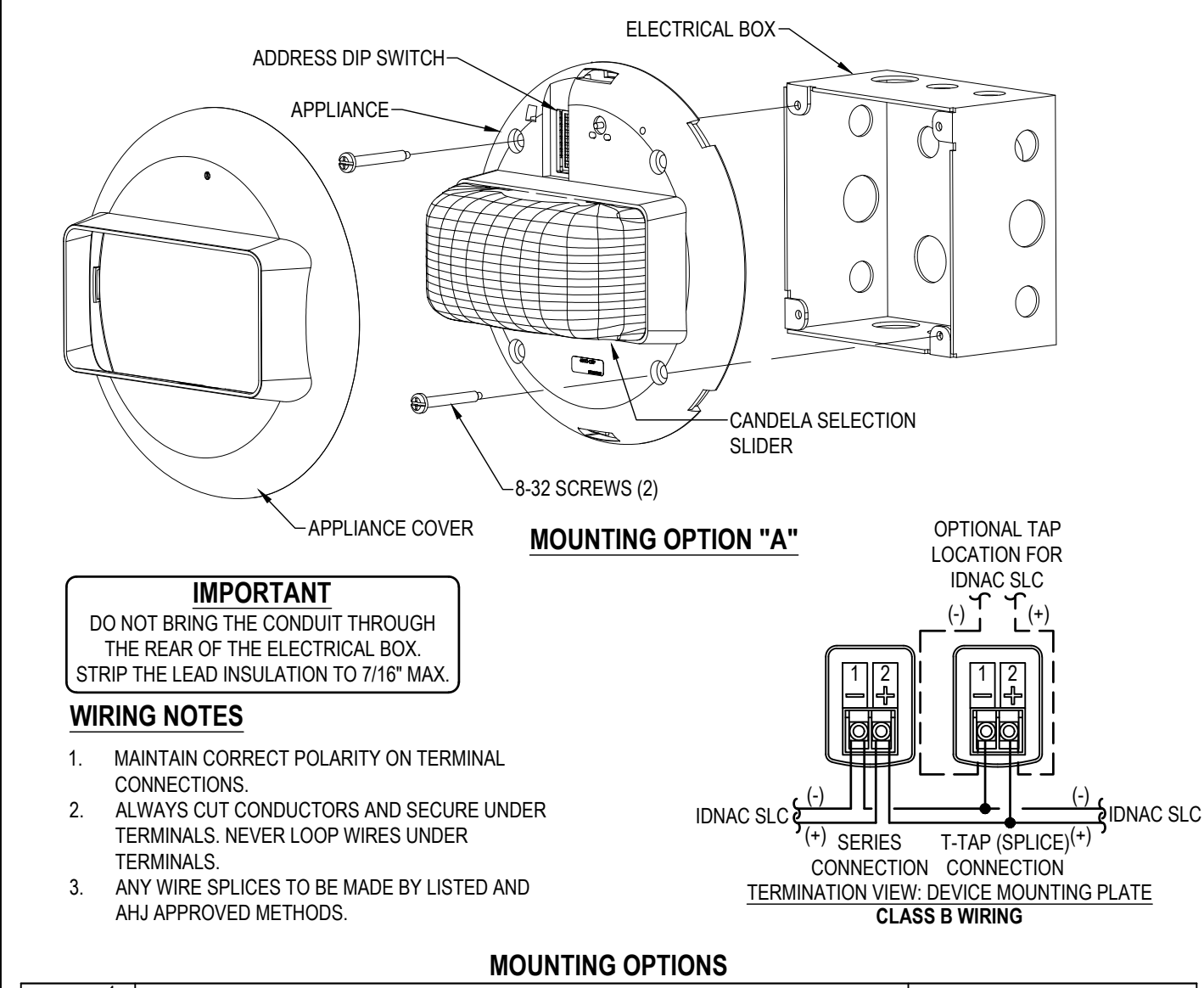


OPTION	DESCRIPTION	NOTE
A	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS
C	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4906-006 FROM HTTP://WWW.SIMPLEX-FIRE.COM

TrueAlert ES ADDRESSABLE APPLIANCES

SIMPLEX 49V0 / 49V0H SERIES CEILING MOUNTED VISUAL ONLY

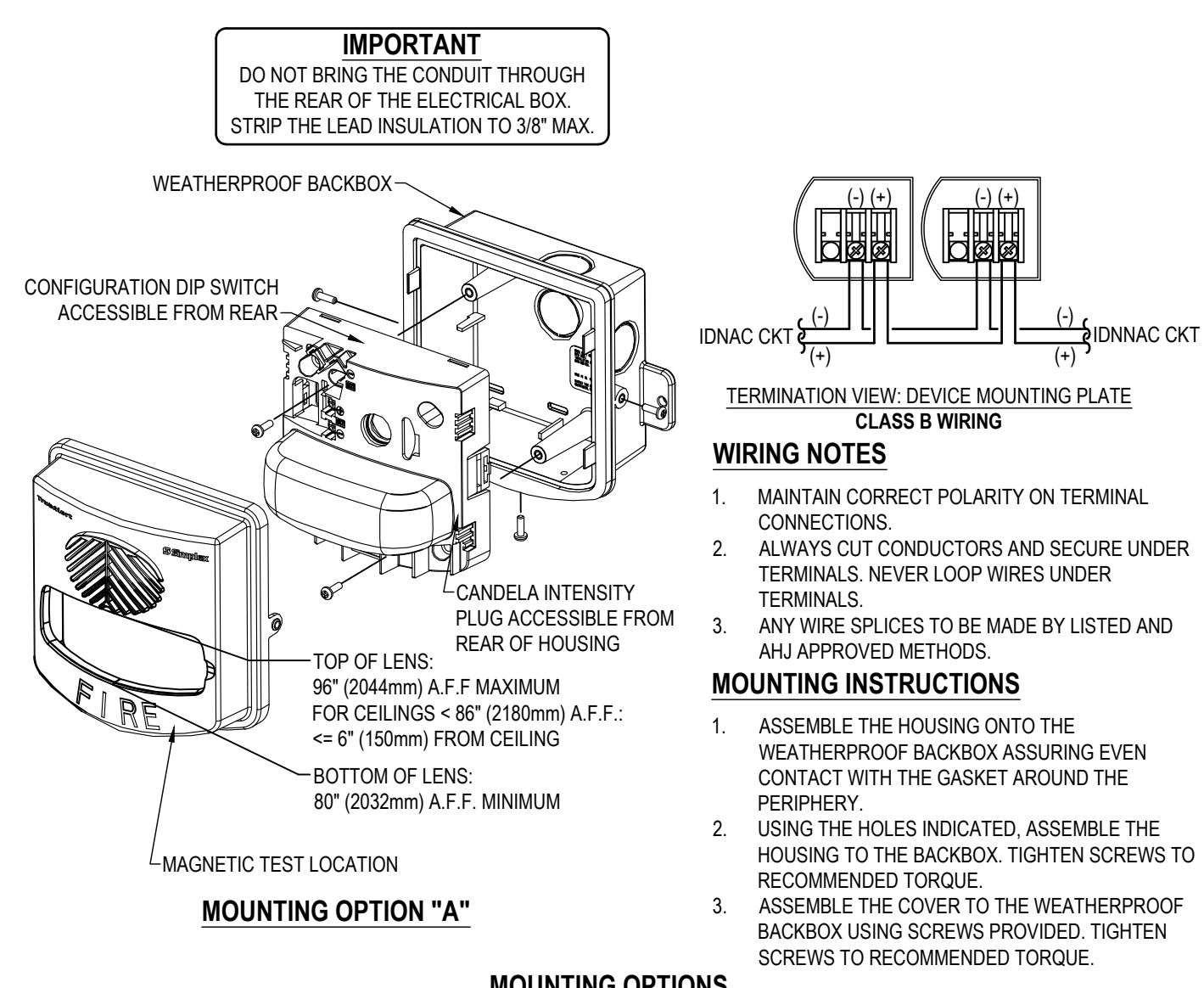


OPTION	DESCRIPTION	NOTE
A	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS
C	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, WITH 1-1/2" (38mm) EXTENSION RING - FLUSH MOUNTING	BY OTHERS

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 49V0-001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

TrueAlert ES ADDRESSABLE APPLIANCES

SIMPLEX 49WP SERIES WEATHERPROOF WALL MOUNTED VISUAL ONLY & AUDIBLE / VISUAL



OPTION	DESCRIPTION	NOTE
A	SIMPLEX 49WPBB-AVVOVR 1-1/2" DEEP WEATHERPROOF BOX - RED	ORDERED SEPARATELY
B	SIMPLEX 49WS 803 1-1/2" DEEP WEATHERPROOF BOX - WHITE	ORDERED SEPARATELY

1. FOR ADDITIONAL INFORMATION, DOWNLOAD DATA SHEET 49WP-001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

DH Series Door Holders

DH-1224
Multi-Voltage Door Holder, 12/24V AC or DC

DH-24120
Multi-Voltage Door Holder, 24/120V AC or DC

DH-24220
Multi-Voltage Door Holder, 24/220V AC or DC

Phone: 888-673-2900 • Local: 309-755-6352 • Fax: 309-755-8310 • email: inquire@globalfirecontrol.com

DESCRIPTION

The DH series fire door holders are constructed of the finest materials and workmanship available. The door holder is made of durable die-cast metal finished in high quality powder coat paint or brass plating.

Other features include standard door voltage dc or ac inputs of 12 & 24V, 24 & 120V and 24 & 220V models. While reducing stocking requirements, the DH-24120 draws a mere 120 mA @ 24VDC lowering overall job costs (in large installations the cost savings can be substantial).

Other features: single or double coil floor mounting, surface mounting and direct wall mounting. No brackets are required. The DH series door holder offers a new installation technique using an adhesive template assisting alignment without secondary adjustments.

Accessories include extension and misalignment rods (various lengths) enabling parallelism between door and wall at distances greater than 12 inches and misalignment over 4 inches.

Aiding in installation is the aircraft quality DH drill fixture that reduces installation time and provides a near perfect alignment of catch-plate and armature, again lowering overall installation costs.

Basic units offer superior holding force and low residual magnetism. The DH-1224 and DH-24120 can operate at higher listed voltages producing holding forces in excess of 100 lbs (45.3 kg) for special applications.

FEATURES

- UL listed
- CSFM Approved
- Very low current draw
- Dual voltage options
- Terminal block connections
- High holding force
- Low residual magnetism
- Hi quality powder coat finish
- Mounting hardware & instructions
- Optional double brass plating
- Extension and misalignment rods
- Flush or surface mount
- Time saving drill fixture (for catch plate)
- Manufactured by RSC/Kames Security

DH-24120G Series

DH-24120PC Series

DH Series Door Holders

ORDERING INFORMATION

Model No.	Description
DH24120FPC	24/120 VDC/AC, Semi-flush mount, Grey Powder Coat
DH24120FB	24/120 VDC/AC, Semi-flush mount, Brushed Brass
DH24120SPC	24/120 VDC/AC, Surface mount, Grey Powder Coat
DH24120SB	24/120 VDC/AC, Surface mount, Brushed Brass
DH24120GPC1	24 or 120VDC/AC, Ground mount, Single Door, Grey Powder Coat
DH24120GB1	24 or 120VDC/AC, Ground mount, Single Door, Brushed Brass
DH24120GPC2	24 or 120VDC/AC, Ground mount, Double Door, Grey Powder Coat
DH24120GB2	24 or 120VDC/AC, Ground mount, Double Door, Brushed Brass
DHE1C	1" Extension Rod, Grey Powder Coat
DHE1S	1" Extension Rod, Brass
DHE1SC	1.5" Extension Rod, Grey Powder Coat
DHE1SB	1.5" Extension Rod, Brass
DHE2C	2" Extension Rod, Grey Powder Coat
DHE2S	2" Extension Rod, Brass
DHE3C	3" Extension Rod, Grey Powder Coat
DHE3S	3" Extension Rod, Brass
DHE4C	4" Adjustable Extension Rod, PC
DHE4SB	4" Adjustable Extension Rod, Brass

ORDERING INFORMATION

Model No.	Description
DH1224FPC	12 or 24VDC/AC, Semi-flush mount, Grey Powder Coat
DH1224FB	12 or 24VDC/AC, Semi-flush mount, Brushed Brass
DH1224SPC	12 or 24 VDC/AC, Surface mount, Grey Powder Coat
DH1224SB	12 or 24VDC/AC, Surface mount, Brushed Brass
DH1224GPC1	12 or 24VDC/AC, Ground mount, Single Door, Grey Powder Coat
DH1224GB1	12 or 24VDC/AC, Ground mount, Single Door, Brushed Brass
DH1224GPC2	12 or 24VDC/AC, Ground mount, Double Door, Grey Powder Coat
DH1224GB2	12 or 24VDC/AC, Ground mount, Double Door, Brushed Brass
DHESC	5" Extension Rod, Grey Powder Coat
DHESC	5" Extension Rod, Brass
DHPCP	Catch Plate, Grey Powder Coat
DHPCB	Catch Plate, Brass Finish
DHBB	Swivel Base, Grey Powder Coat
DHBB	Swivel Base, Brass Finish
DHBB	Surface Back Box, Grey Powder Coat
DHBB	Surface Back Box, Brass Finish
DHW	Extension Rod Wrenches (Set of Two)
DHDF	Swivel Base Mounting Drill Fixture

SPECIFICATIONS

	DC Current mA	AC Current mA	Terminals	Holding Force
DH1224 (12V):	0.040	0.038	C & L	30 lbs. (13.6kg)
DH1224 (24V):	0.040	0.038	C & H	30 lbs. (13.6kg)
DH1224 (24V):	0.085	0.081	C & L	75 lbs. (34.0kg)
DH24120 (24V):	0.020	0.019	C & L	40 lbs. (18.1kg)
DH24120 (120V):	0.020	0.020	C & H	35 lbs. (15.8kg)
DH24120 (120V):		0.100	C & L	100 lbs. (49.8kg)
DH24220 (24V):	0.040	0.038	C & L	30 lbs. (13.6kg)
DH24220 (220V):		0.081	C & L	75 lbs. (34.0kg)

GLOBAL FIRE CONTROL, INC.
1201 7th Street, Suite 103
East Moline, IL 61244

Phone: 888-673-2900
Local: 309-755-6352
Fax: 309-755-8310
email: inquire@globalfirecontrol.com

DIP SWITCH SETTINGS - INITIATING

SIMPLEX IDNET

ON 1 2 4 8 16 32 64 128

OFF 1 2 4 8 16 32 64 128

ADDRESS SHOWN ABOVE IS 120

DO NOT USE ADDRESS 0 FOR AN IDNET ADDRESS

DIP SWITCHES 5 THRU 8

DIP SWITCHES 1 THRU 4

DIP SWITCHES 5 THRU 8

DIP SWITCHES 1 THRU 4

NOTE: The 4098-9711, -9794, -9795, -9798 SOUNDER BASES HAVE A 8-POSITION DIP SWITCH. THE FIRST EIGHT DIP SWITCHES SET THE SOUNDER BASE ADDRESS. DIP SWITCH POSITION 9 IS SET TO OFF OR ON DEPENDING UPON THE SOUNDER BASE POWER SOURCE. WHEN THE SOUNDER BASE IS CONNECTED TO A 24 VDC POWER SOURCE, DIP SWITCH POSITION 9 IS SET TO 'OFF' AND THE 24 VDC POWER IS SUPERVISED BY THE SOUNDER BASE. WHEN THE SOUNDER BASE IS POWERED BY THE PANEL'S NOTIFICATION APPLIANCE CIRCUIT (NAC), DIP SWITCH POSITION 9 IS SET TO 'ON' AND THE POWER IS SUPERVISED BY THE NAC AND NOT THE SOUNDER BASE. THE 4098-9770 AND -9797 BASES HAVE THE SAME LAYOUT, BUT DOESN'T OFFER SOUNDER FUNCTIONALITY. THEY USE AN 8-WAY DIP SWITCH ONLY.

COMMUNICATIONS DIP SWITCH SETTINGS

SIMPLEX RUI (REMOTE UNIT INTERFACE)

ON 64 32 16 8 4 2 1

OFF 1 2 4 8 16 32 64

ADDRESS SHOWN ABOVE IS 56

DO NOT USE ADDRESS 0 FOR A RUI ADDRESS

DIP SWITCHES 1 THRU 4

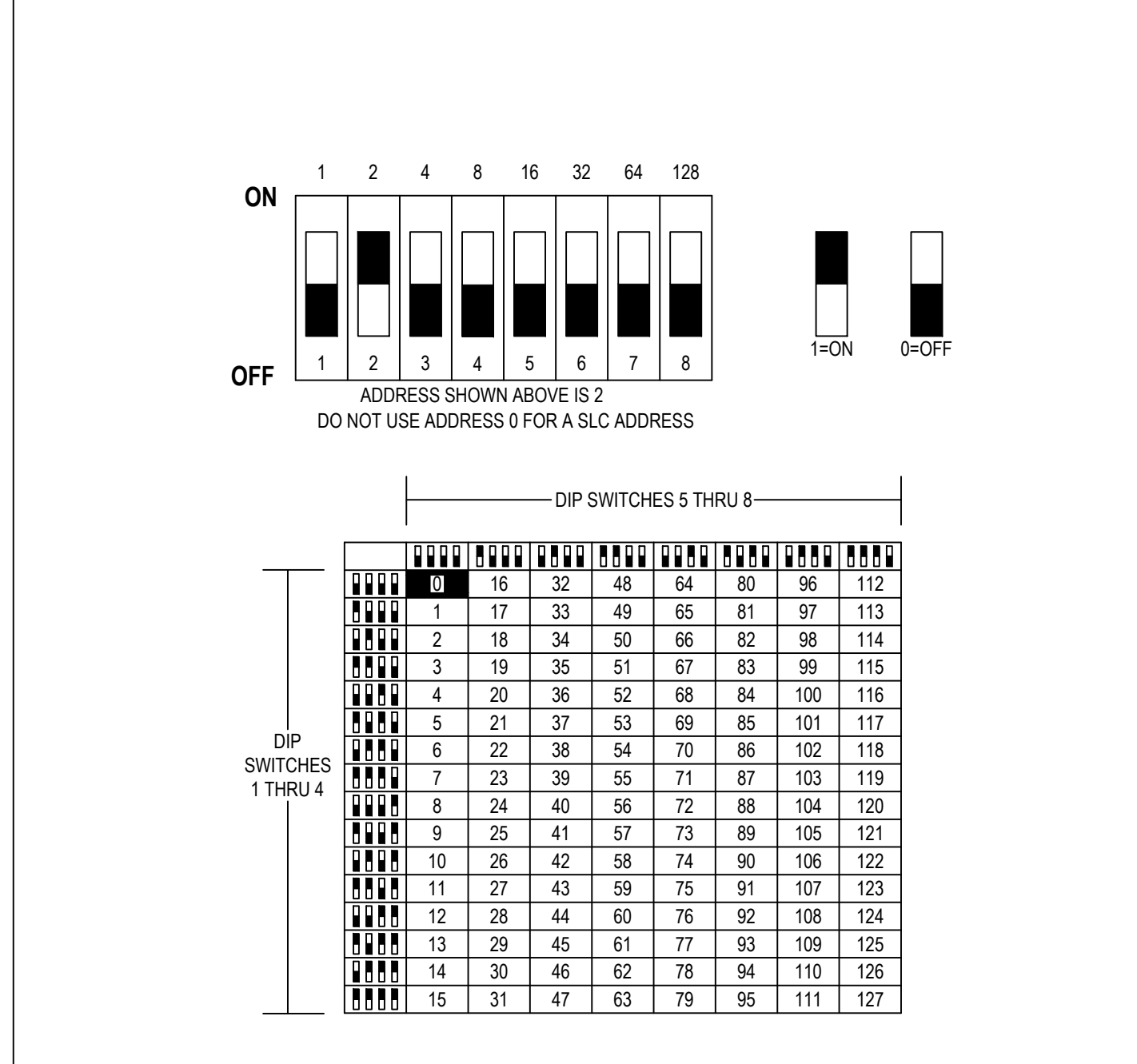
DIP SWITCHES 5 THRU 8

DIP SWITCHES 1 THRU 4

DIP SWITCHES 5 THRU 8

DIP SWITCH SETTINGS - NOTIFICATION

SIMPLEX TRUEALERT ES / IDNAC



END OF LINE RESISTOR CODES

MODEL	REF. NUMBER	Ω	BAND NUMBER	WATTS	CIRCUIT TYPE	FIRE ALARM PANEL/MODULE
4081-9001	733-892	2.2K	RED RED	GLD N/A	1/2	ANNUNCIATOR (400)
4081-9002	733-893	3.3K	ORG ORG	RED GLD N/A	1	N.O. INITIATING PULL SMOKE, HEAT, WATERFLOW, TAMPER, ETC. 24 PT. I/O SWITCH SUPV. CURRENT LIMITED N.O. INIT. NOTIFICATION (DACT)
4081-9003	733-896	4.7K	YEL YEL	RED GLD N/A	1/2	N.O. INITIATING PULL SMOKE, HEAT, W.FLOW, TAMPER, ETC
4081-9004	733-898	6.8K	BLU GRN	RED GLD N/A	1/2	CURRENT LIMITED N.O. INITIATING (INLINE)
4081-9005	733-984	1.8K	BRN GRN	RED GLD N/A	1	N.C. INITIATING (EOLR)
4081-9006	733-990	560	GRN BLK	BRN GLD N/A	1	N.C. INITIATING (EOLR)
4081-9007	733-891	1.2K	BRN RED	RED GLD N/A	1	NOTIFICATION
4081-9008	733-894	10K	BRN BLK	ORG GLD N/A	1/2	MONITORING (EOLR)
4081-9009	733-912	20	RED BLK	BLK GLD N/A	1	MONITORING (EOLR)
4081-9010	733-973	1K	BRN BLK	RED GLD N/A	1	ANNUNCIATOR (N2)
4081-9011	733-974	100	BRN BLK	BRN GLD N/A	1/2	SPEAKER CIRCUIT
4081-9012	733-985	22K	RED RED	ORG GLD N/A	1/2	N.C. INITIATING (SECURITY)
4081-9013	734-086	4.9K	YEL YEL	WHT BRN	1/2	CURRENT LIMITED N.O. INIT. (SECURITY MONITORING EOLR)
4081-9014	734-092	2.4K	RED YEL	RED GLD N/A	1/2	MONITORING (EOLR)
4081-9015	734-093	1.5K	BRN GRN	RED GLD N/A	1/2	MONITORING (EOLR)
4081-9016	734-149	150K	BRN GRN	YEL GLD N/A	1/2	MONITORING (EOLR)
4081-9017	734-171	3.3K	ORG ORG	WHT RED GLD N/A	1	MONITORING (EOLR)
4081-9018	734-168	10K	BRN BLK	ORG GLD N/A	1	MONITORING (EOLR)
4081-9019	734-169	8.2K	GRY RED	RED GLD N/A	1/2	MONITORING (EOLR)
4081-9020	734-169	5.6K	GRN BLU	RED GLD N/A	1/2	MONITORING (EOLR)
4081-9021	734-169	12K	BRN RED	ORG GLD N/A	1/2	MONITORING (EOLR)

REVISION 1

DRAWN BY: GOPINATH M G
CHECKED BY: DIRK SAMUEL
ISSUE DATE: 9/3/21
JOB #: 332431326
PROJECT #: 332 621373601
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WIRING TYPICALS

FA-702