

NFPA SYMBOLS LEGEND			
FCF	2	FIRE ALARM CONTROL PANEL	
•		PULL STATION	
2)	SMOKE DETECTOR	
		WALL HORN ONLY	
×Μ	/	HORN/STROBE WALL LOW FREQUENCY	
×	/P	OUTSIDE HORN/STROBE FOR WATER FLOW	
×		STROBE ONLY	
5-\$-	s	FLOW DETECTOR/SWITCH	
Q,	s	TAMPER DETECTOR	
		18/2 CABLE SLC LOOP	
	$\overline{}$	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP	
EOL	-	END-OF-LINE RESISTOR	
	* ALL S	SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS	
NOTE	S:		
SE	CTIONS	ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE S OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL SLE NFPA STANDARDS. INCLUDING CHAPTER 72.	
		TION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR WS, REGULATIONS, CODES, AND SPECIFICATIONS.	
-	L INSTA	ALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING TION.	
WI	WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.		
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11. SY	STEM I	S AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.	
12. SE	e apaf	RTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.	
13. ALI	L DEVIO	CES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.	
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AN	SI AS E	TEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY, ELEVATOR INIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.	

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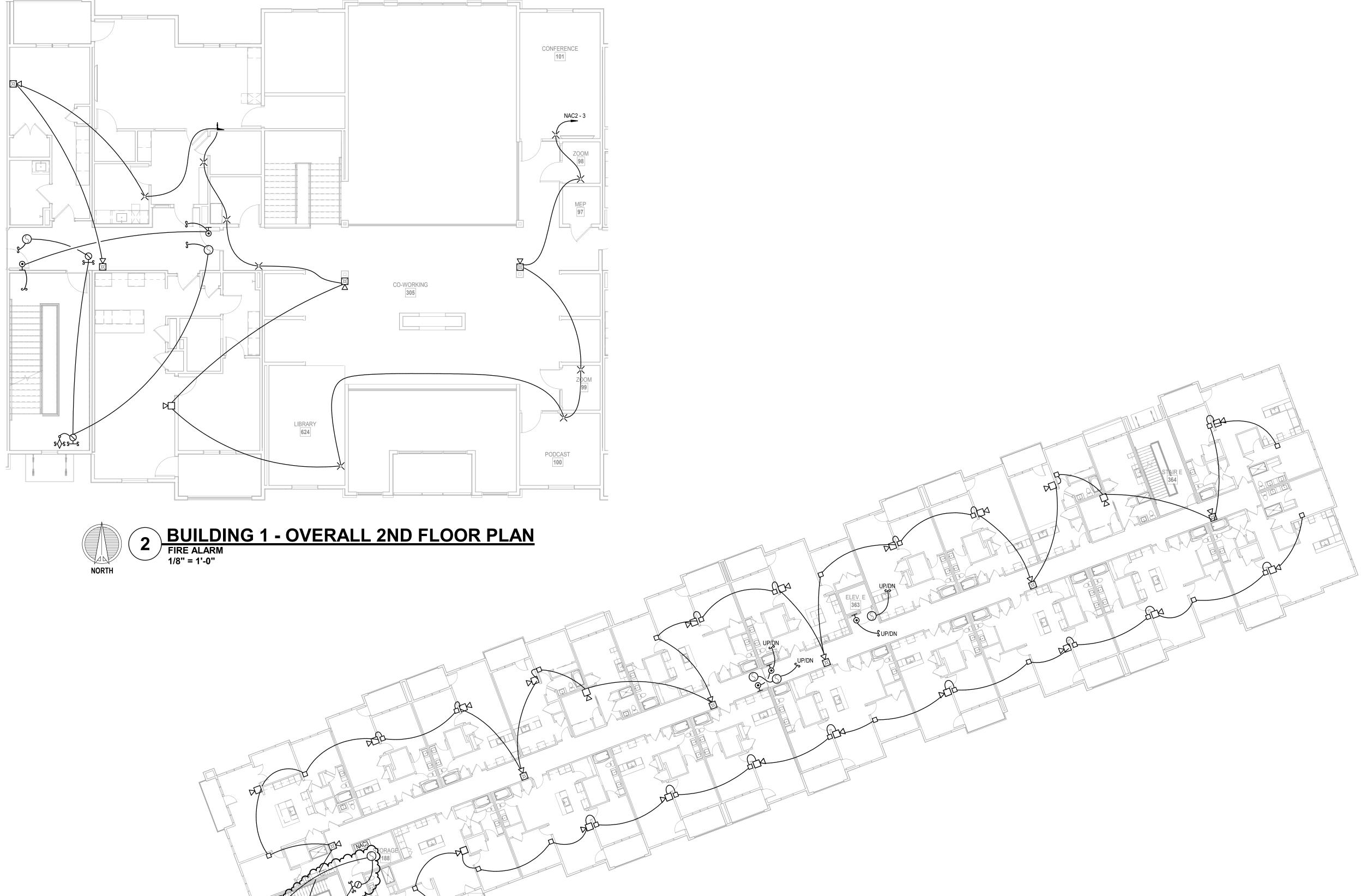


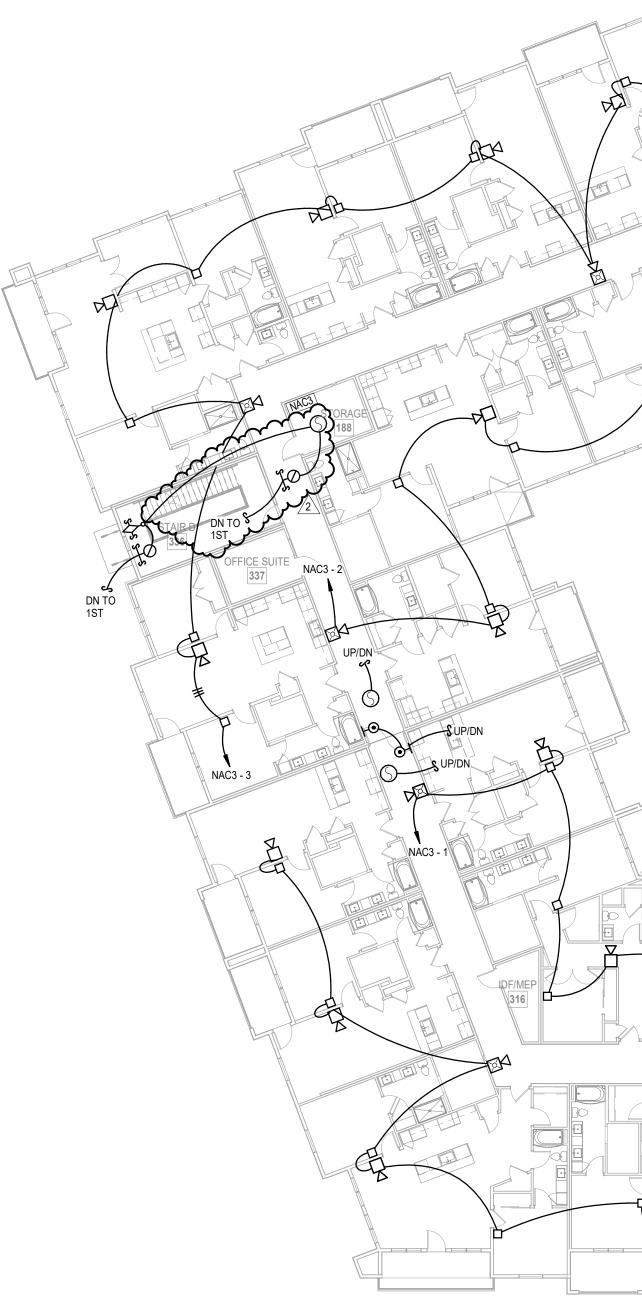
S&A Latimer Sommers & Associates P.A. CONSULTING ENGINEERS 3639 SW Summerfield Drive, Suite A Topeka, Kansas 6614-3974 8625 College Boulevard, Suite 102 Overland Park, Kansas 66210 Telephone: (785) 233-3232 Email: Isapa@Isapa.com LSA PROJECT NO. 2204061 \triangle REVISIONS
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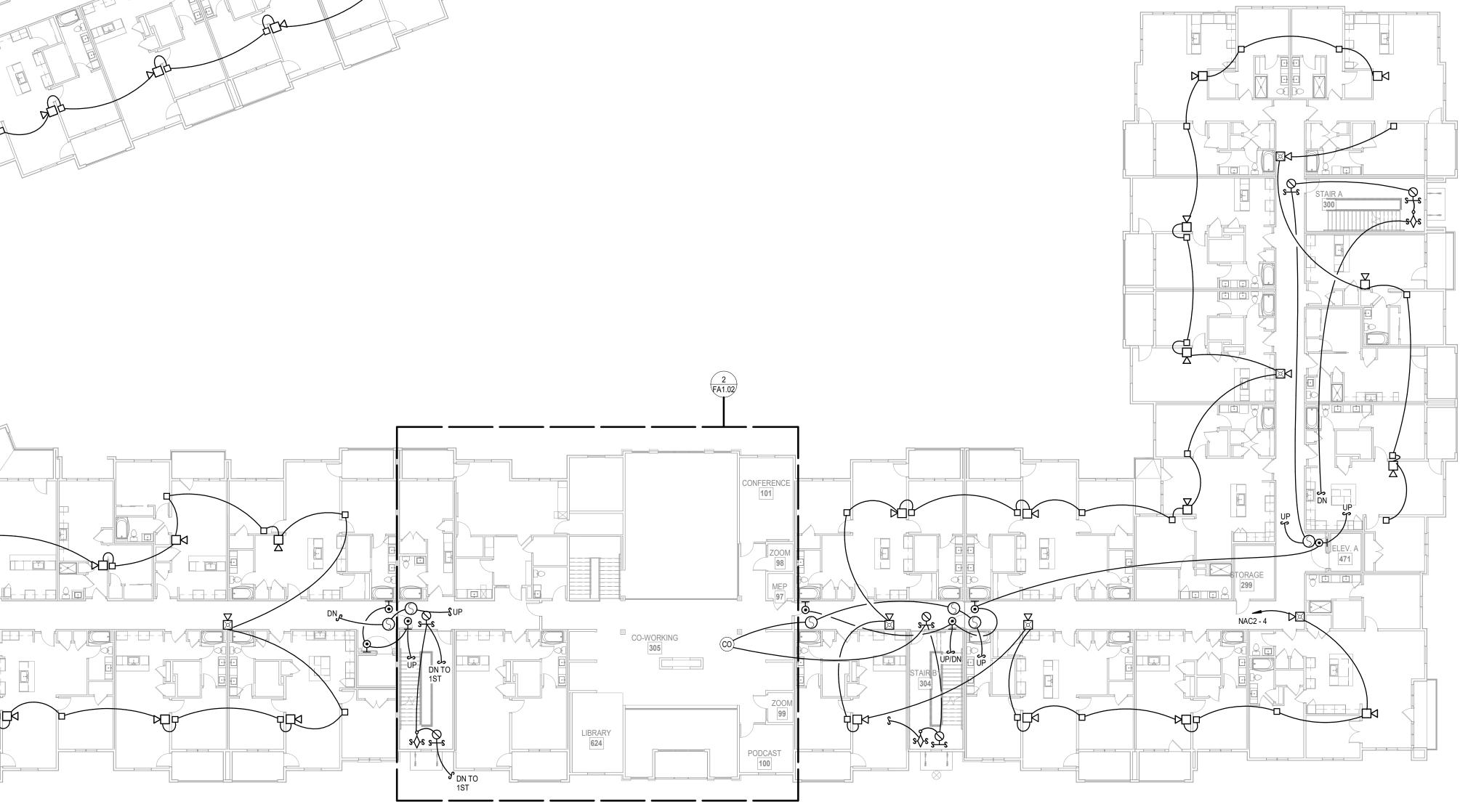
JOB NO. **705921** DATE 03.15.2023 DRAWNBY Author 9/15/2023 SHEET NAME











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- 10. HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
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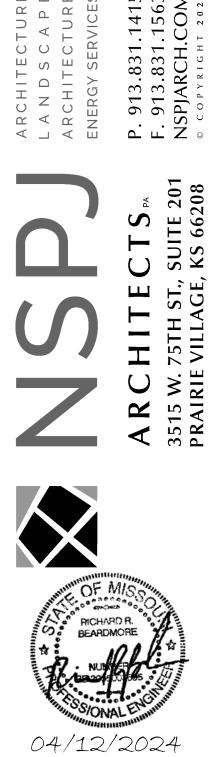
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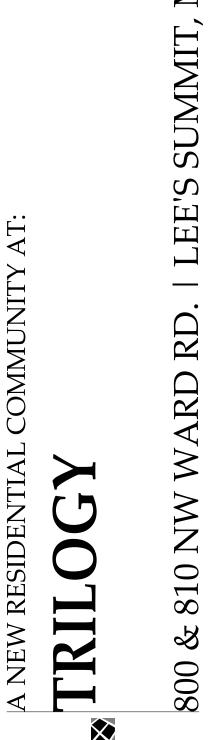
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11. SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.





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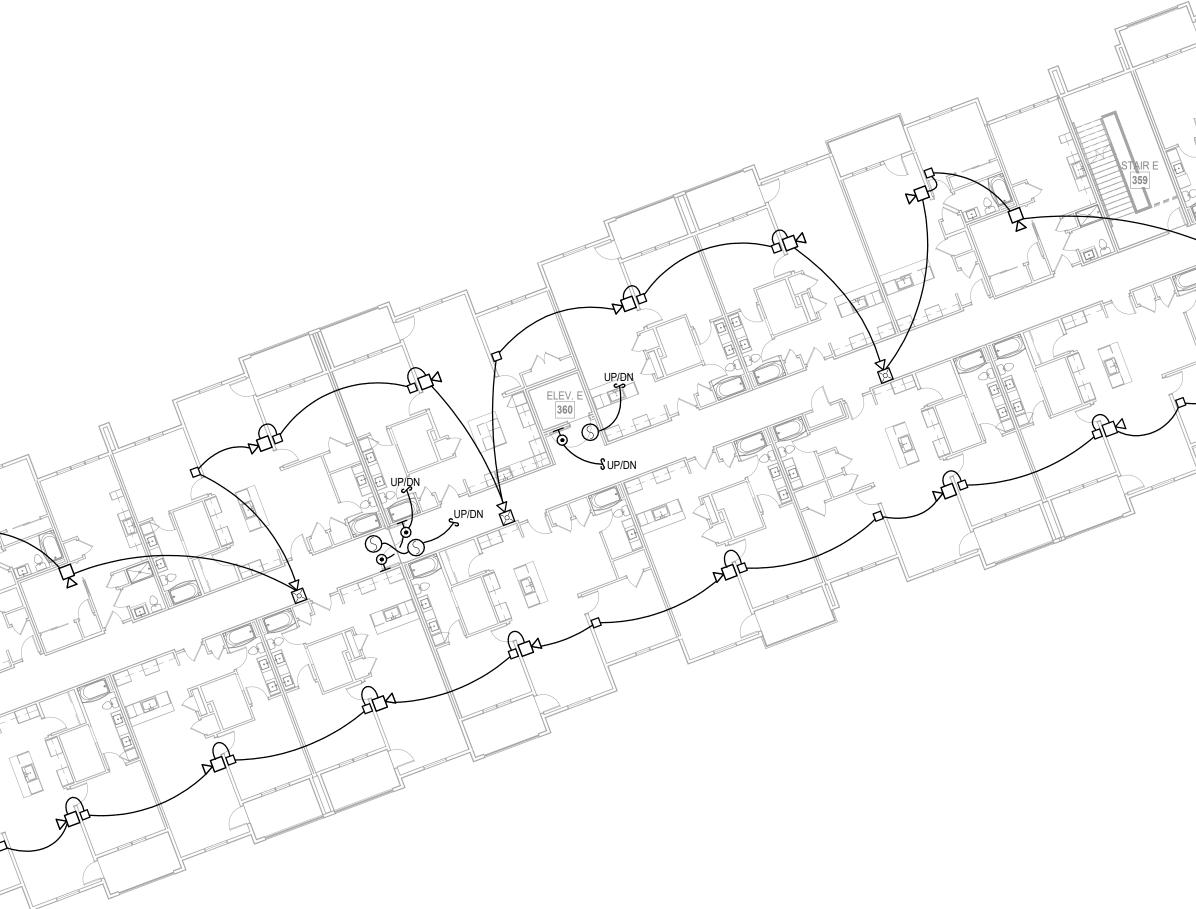
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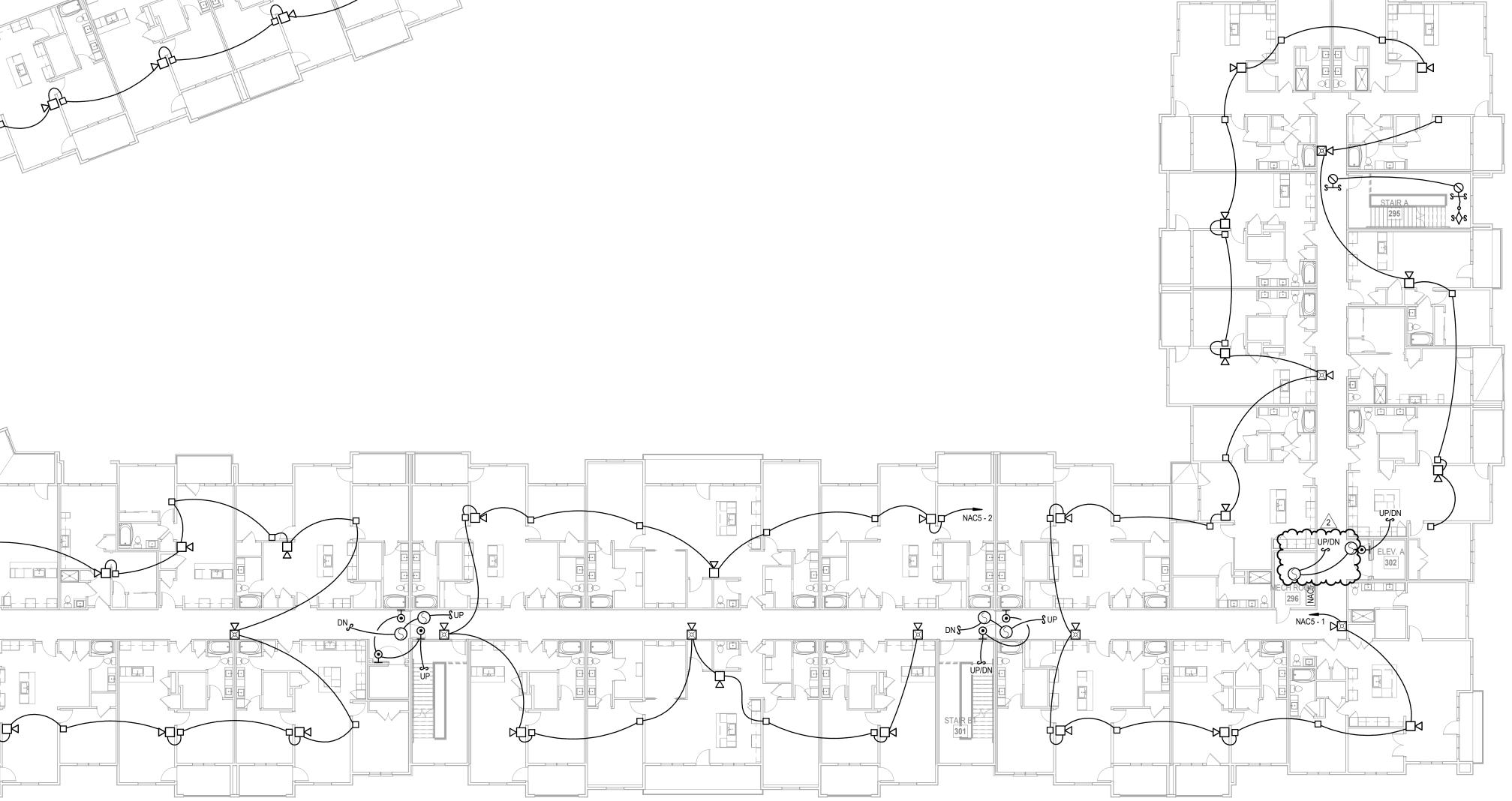
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6.	ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.			
7.	DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4 INCHES FROM SIDEWALL.			
8.	SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.			
9.	MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA/ADA GUIDELINES.			
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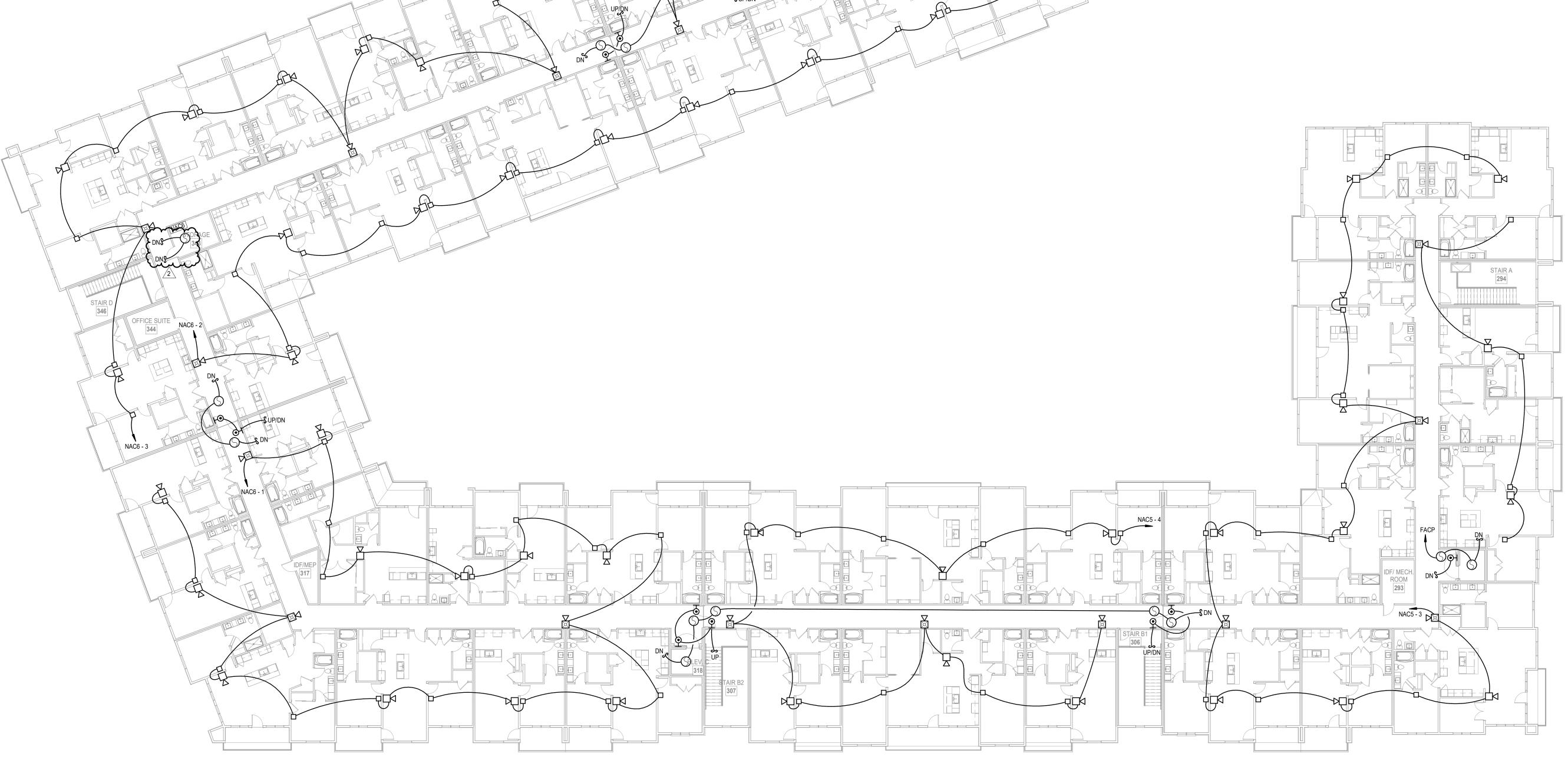


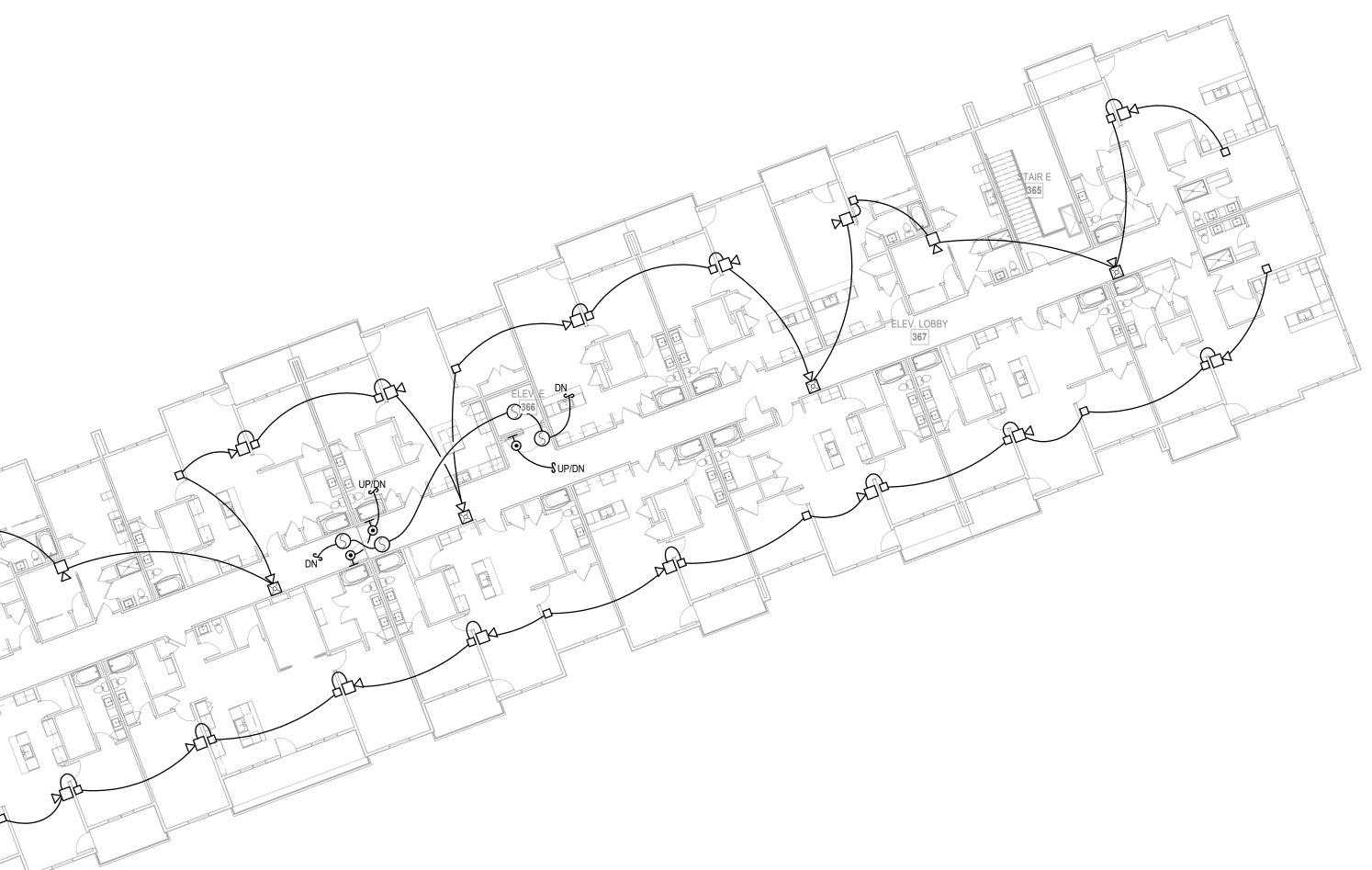
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PULL STATION SMOKE DETECTOR WALL HORN ONLY HORN/STROBE WALL LOW FREQUENCY X٧ OUTSIDE HORN/STROBE FOR WATER FLO ŴWР STROBE ONLY FLOW DETECTOR/SWITCH TAMPER DETECTOR 18/2 CABLE SLC LOOP 14/2 OR 16/2 AS REQUIRED, CABLE NAC L EOL END-OF-LINE RESISTOR * ALL SYMBOLS SHOWN ABOVE MAY NOT APPEA NOTES: ALL FIRE ALARM WIRING MUST BE IN STRICT COMPI SECTIONS OF THE NATIONAL ELECTRICAL CODE (ART APPLICABLE NFPA STANDARDS. INCLUDING CHAPTER 2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE I LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICA 3. ALL INSTALLATIONS MUST BE APPROVED BY THE L JURISDICTION. WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONL WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELD THE FIRE ALARM CONTROL PANEL (FACP) ONLY. TO AVOID CONTAMINATION AND DUST ACCUMULATION DETECTORS, IT IS RECOMMENDED THAT THE SMOKE NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER FOR DUST ACCLIMATION IN SMOKE DETECTORS ANI DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAIN ARE INSTALLED, PROTECTIVE COVERS SHALL BE INS DETECTOR AND REMOVED BY AUTHORIZED SERVICE ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FF AND GROUNDS. A SMOKE DETECTOR MUST BE LOCAT HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL 7. DO NOT LOCATE SMOKE DETECTORS WITHIN THREE VENTS. SMOKE DETECTORS SHALL BE LOCATED ON 1 THAN 4 INCHES FROM SIDEWALL. 8. SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS. 9. MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA/ADA GUIDELINES. 10. HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET. 11. SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM. 12. SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS. 13. ALL DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.

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REMOTE-WIRELESS UNITS CAN BE PROVIDED.

NFPA SYMBOLS LEG

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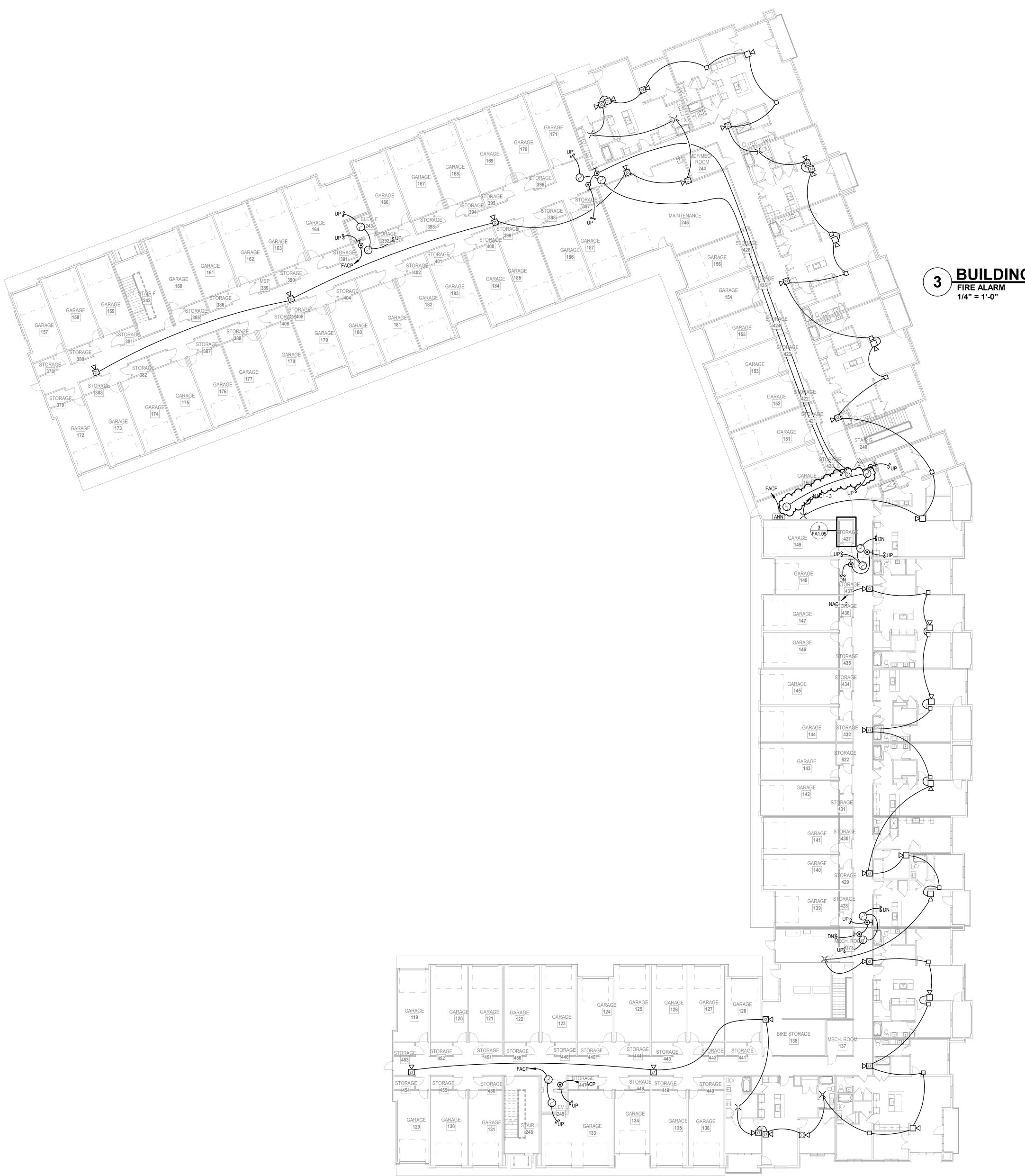
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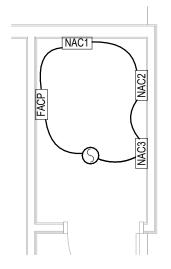




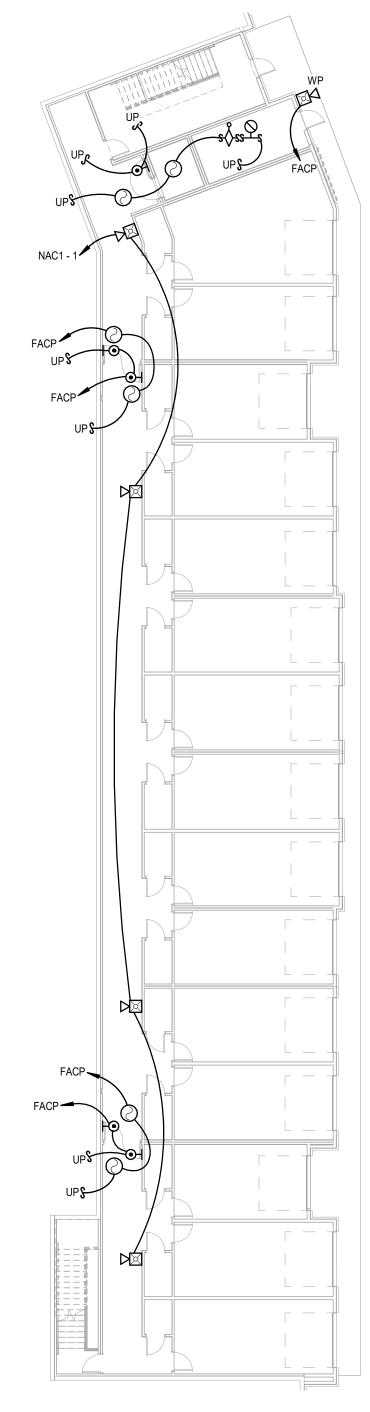




BUILDING 2 - OVERALL 1ST FLOOR PLAN FIRE ALARM 1/16" = 1'-0"



3 BUILDING 2 - OVERALL 1ST FLOOR PLAN - FIRE ALARM - Callout 1 FIRE ALARM 1/4" = 1'-0"



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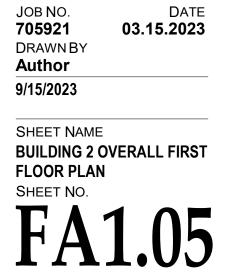




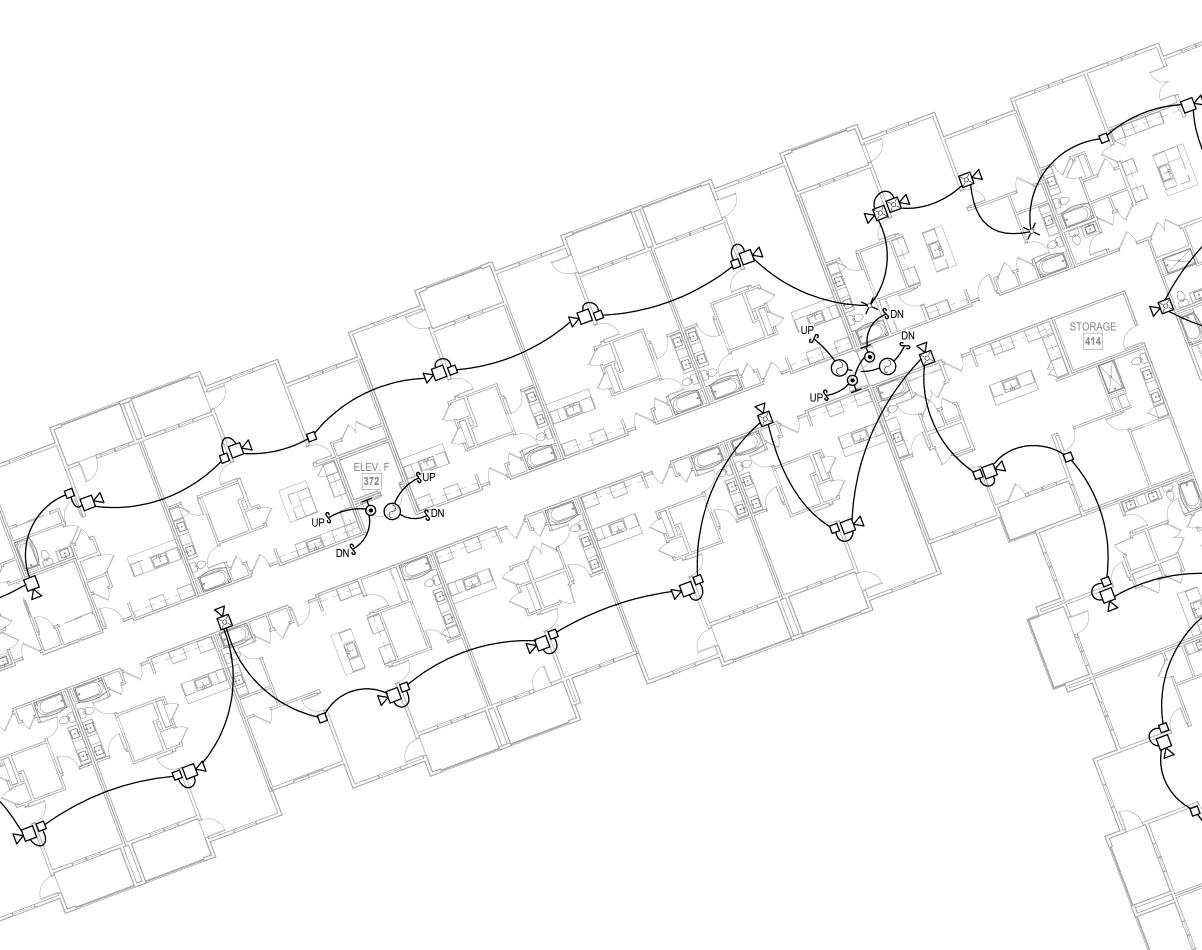


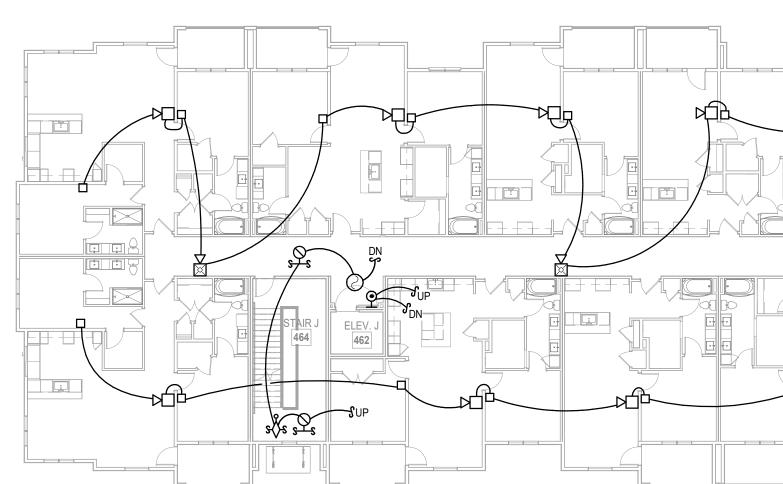
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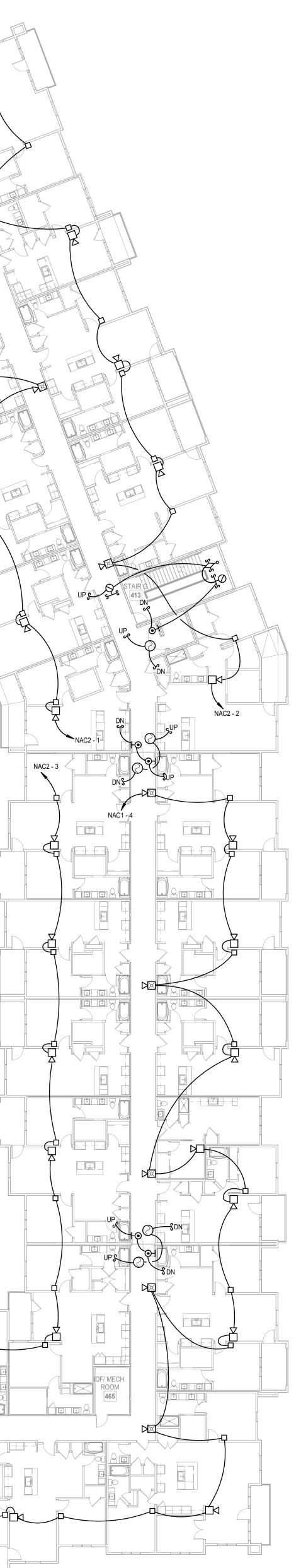






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BUILDING 2 - OVERALL 2ND FLOOR PLAN FIRE ALARM 1/16" = 1'-0"



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6.	AND GRO	ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, UNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET TALLY OF THE FIRE ALARM CONTROL PANEL.				
7.	VENTS. S	OCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR MOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS ICHES FROM SIDEWALL.				
8.		G CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF Y AFFECT CIRCUIT CONFIGURATIONS.				
9.		PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR DANCE WITH NFPA/ADA GUIDELINES.				
10.	HORNS W ALARM IS	ILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL RESET.				
11.	SYSTEM I	S AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.				
12.	SEE APAF	RTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.				
13.	ALL DEVIC	CES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.				
14.	BEDROOM	TY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN MS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO WIRELESS UNITS CAN BE PROVIDED.				



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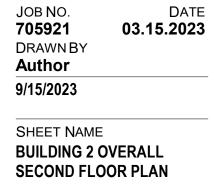
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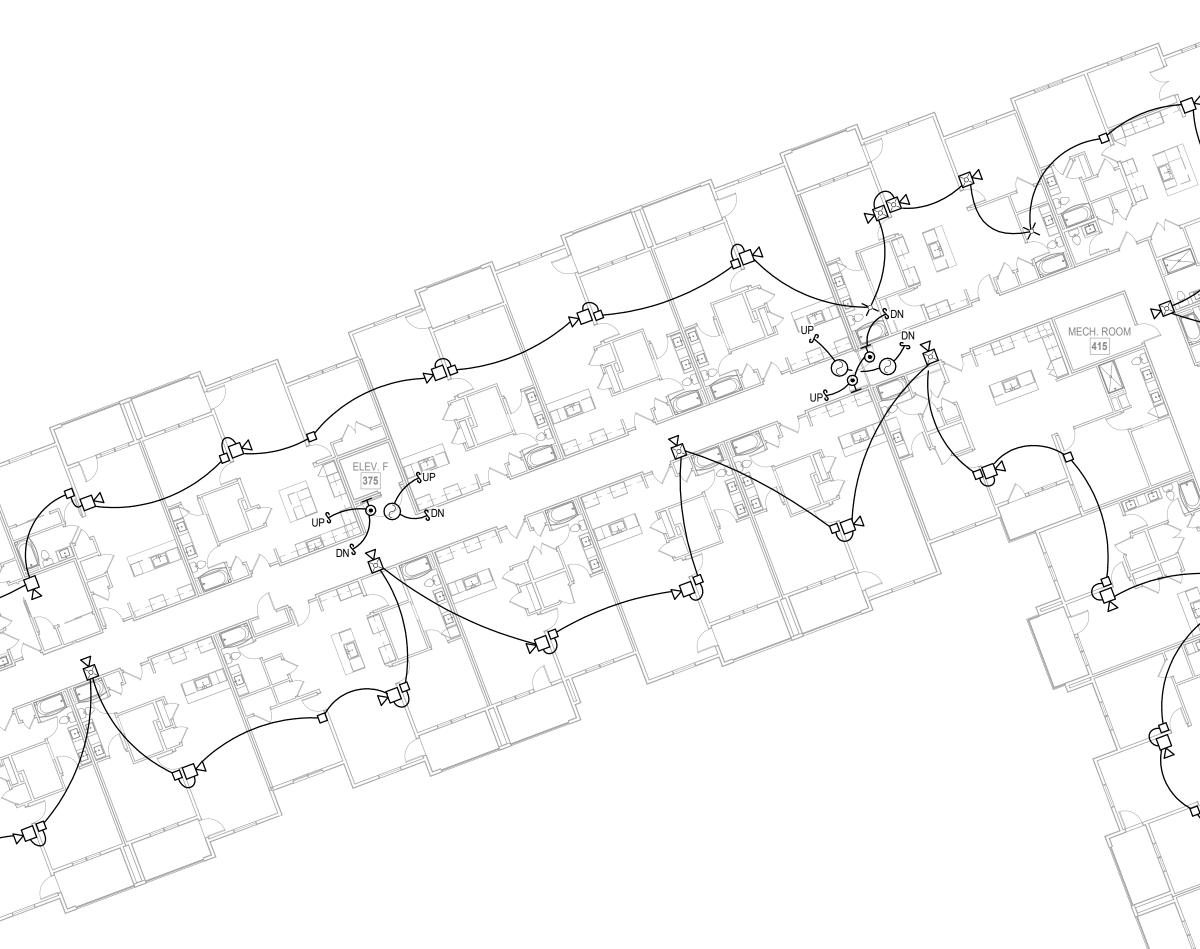
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		NFPA SYMBOLS LEGEND
[FCP	FIRE ALARM CONTROL PANEL
	•	PULL STATION
	\bigcirc	SMOKE DETECTOR
	X	WALL HORN ONLY
[⊠w	HORN/STROBE WALL LOW FREQUENCY
[⊠wp	OUTSIDE HORN/STROBE FOR WATER FLOW
	×	STROBE ONLY
	s∳s	FLOW DETECTOR/SWITCH
	Å.	TAMPER DETECTOR
/	\$	18/2 CABLE SLC LOOP
/		14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP
	EOL	END-OF-LINE RESISTOR
	* ALL \$	SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS
NO	TES:	
	. 20.	
1.	SECTION	ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABL S OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL BLE NFPA STANDARDS. INCLUDING CHAPTER 72.
2.		TION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR WS, REGULATIONS, CODES, AND SPECIFICATIONS.
3.	ALL INSTA	ALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING TION.
4.	WITHIN R	CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE ACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE A ALARM CONTROL PANEL (FACP) ONLY.
5.	DETECTO NOT BE IN SUBJECT FOR DUS DEVICES ARE INST	O CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE ORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE T ACCLIMATION IN SMOKE DETECTORS AND WILL NOT WARRANTED THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH OR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
6.	AND GRO	ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, UNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET TALLY OF THE FIRE ALARM CONTROL PANEL.
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9.		PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOC RDANCE WITH NFPA/ADA GUIDELINES.
10.	HORNS W ALARM IS	/ILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTI RESET.
11.	SYSTEM I	IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM
12.	SEE APAF	RTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.
13.	ALL DEVI	CES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.
14.	CAPABILI BEDROOM REMOTE-	TY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES MS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO WIRELESS UNITS CAN BE PROVIDED.
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GEND
NCY
R FLOW
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PEAR ON PLANS
OMPLIANCE WITH APPLICABLE E (ARTICLE 760) AND ALL APTER 72.



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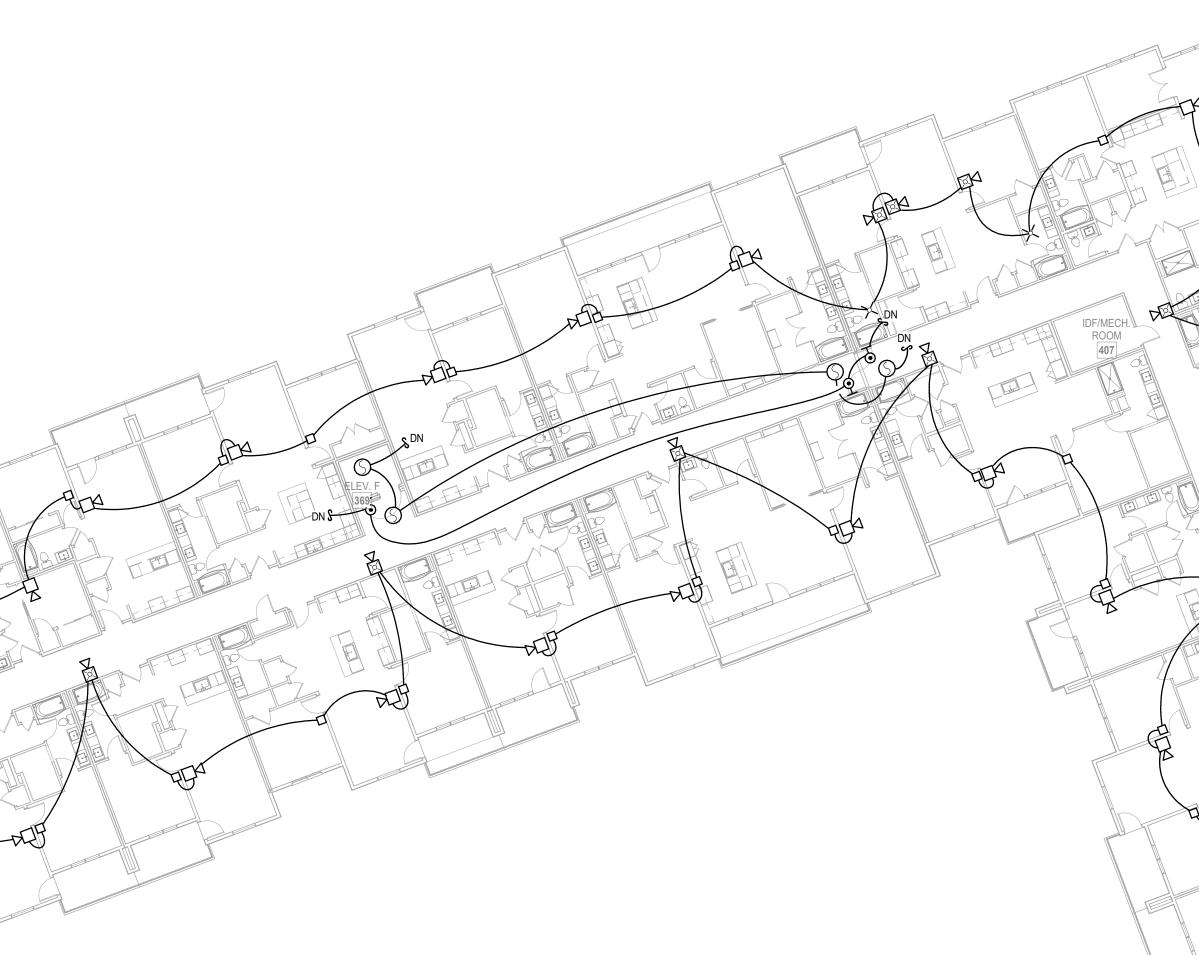
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JOB NO. **705921** DATE 03.15.2023 **DRAWN BY** Author 9/15/2023 SHEET NAME



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		NFPA SYMBOLS LEGEND		
[FCP	FIRE ALARM CONTROL PANEL		
	•	PULL STATION		
	\bigcirc	SMOKE DETECTOR		
		WALL HORN ONLY		
	X w	HORN/STROBE WALL LOW FREQUENCY		
	X Xwp	OUTSIDE HORN/STROBE FOR WATER FLOW		
	×	STROBE ONLY		
	<i>₽</i> \\}-2	FLOW DETECTOR/SWITCH		
	<u>, Q</u>	TAMPER DETECTOR		
_	-	18/2 CABLE SLC LOOP		
/		14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP		
		SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS		
NO		ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE		
	SECTIONS	S OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL LE NFPA STANDARDS. INCLUDING CHAPTER 72.		
2.		TION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR WS, REGULATIONS, CODES, AND SPECIFICATIONS.		
3.	ALL INSTA	ALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING TION.		
l.	WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.			
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ò.	AND GRO	ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, UNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET TALLY OF THE FIRE ALARM CONTROL PANEL.		
7 .	VENTS. SI	OCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR MOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS CHES FROM SIDEWALL.		
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).		PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR DANCE WITH NFPA/ADA GUIDELINES.		
0.	HORNS W ALARM IS	ILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL RESET.		
1.	SYSTEM I	S AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.		
2.	SEE APAR	RTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.		
3.	ALL DEVIC	CES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.		
4.	BEDROON REMOTE-	TY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN IS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO WIRELESS UNITS CAN BE PROVIDED.		
5.	THIS SYS ANSI AS D	TEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY, ELEVATOR INIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.		

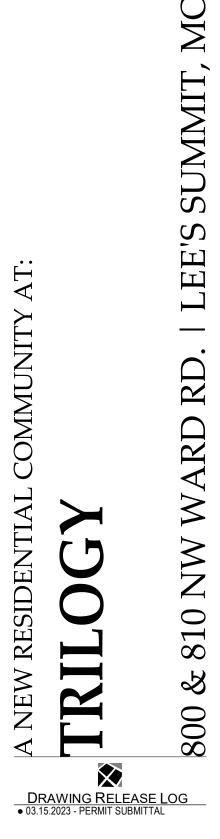


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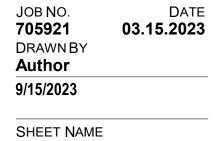
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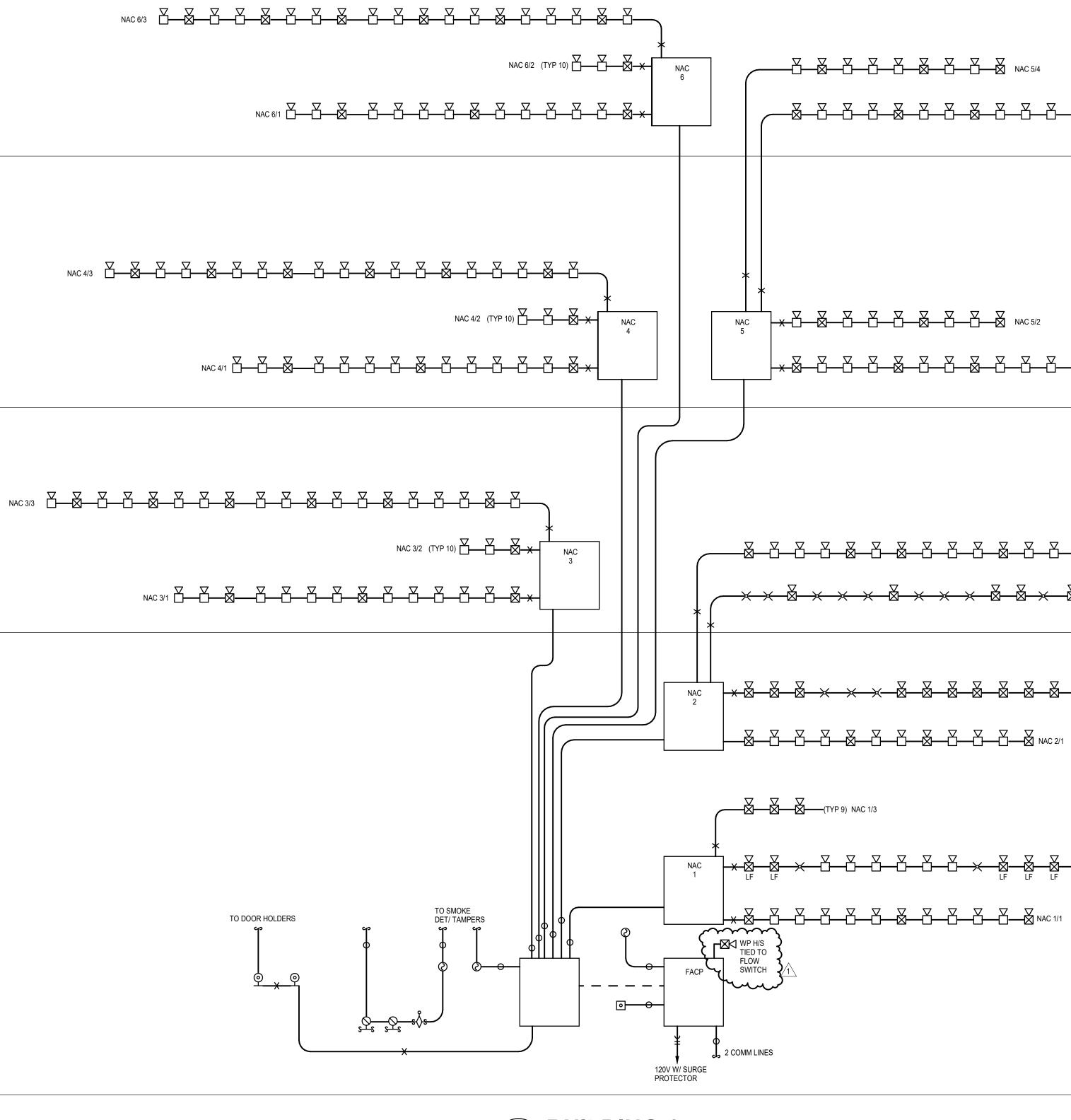


THIRD FLOOR

SECOND FLOOR

FOURTH FLOOR

FIRST FLOOR



1 BUILDING 1 NOT TO SCALE

	NFPA SYMBOLS LEGEND
FCP	FIRE ALARM CONTROL PANEL
•	PULL STATION
\bigcirc	SMOKE DETECTOR
	WALL HORN ONLY
₩	HORN/STROBE WALL LOW FREQUENCY
	OUTSIDE HORN/STROBE FOR WATER FLOW
×	STROBE ONLY
r\\rightarrow r	FLOW DETECTOR/SWITCH
یگر ا	TAMPER DETECTOR
\sim	18/2 CABLE SLC LOOP
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP
EOL	END-OF-LINE RESISTOR
* ALL S	SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS
NOTES:	

- ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS. INCLUDING CHAPTER 72.
- INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
- ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
- TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCLIMATION IN SMOKE DETECTORS AND WILL NOT WARRANTEE DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS
- ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, AND GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE FIRE ALARM CONTROL PANEL.

ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.

- DO NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR VENTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4 INCHES FROM SIDEWALL.
- SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.
- MANUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR IN ACCORDANCE WITH NFPA/ADA GUIDELINES.
- 0. HORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ALARM IS RESET.
- 11. SYSTEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.

12. SEE APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.

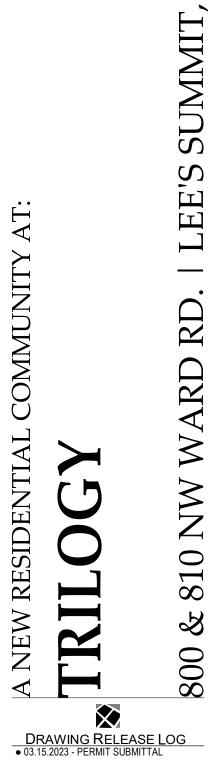
- 13. ALL DEVICES SHALL BE VISIBLE IN TYPE A ACCESSIBLE UNITS.
- 14. CAPABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN BEDROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO REMOTE-WIRELESS UNITS CAN BE PROVIDED.
- 15. THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSI AS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY, ELEVATOR SAFETY UNIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.

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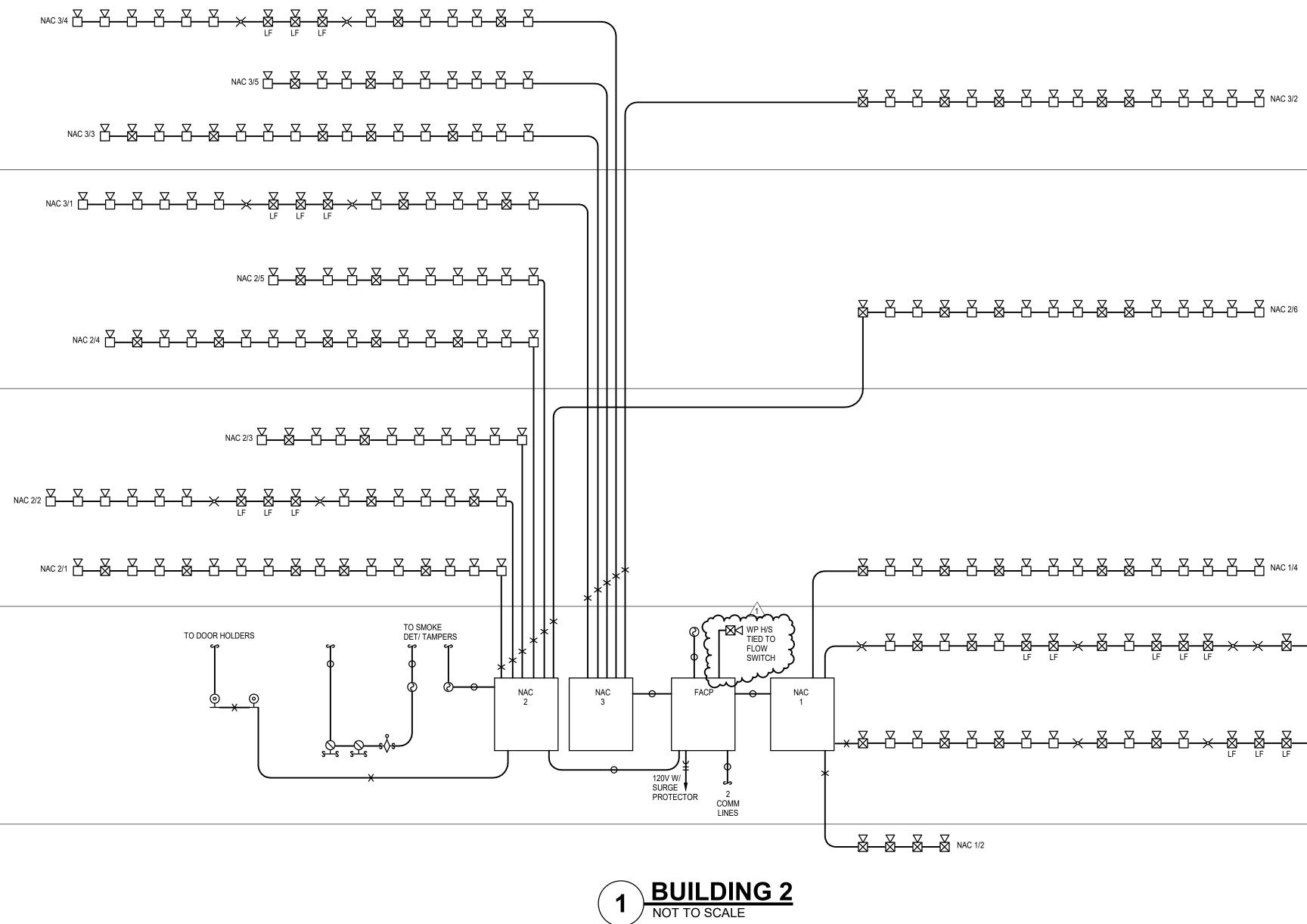


FOURTH FLOOR

THIRD FLOOR

SECOND FLOOR

FIRST FLOOR LOWER

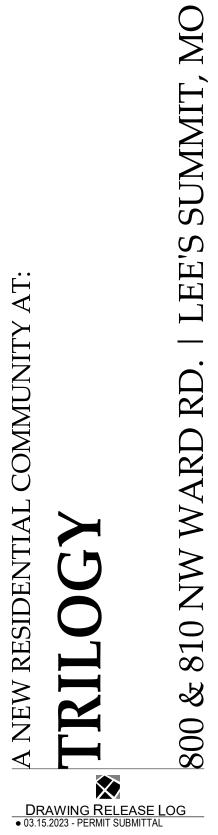


		NFPA SYMBOLS LEGEND		
	505			
	FCP	FIRE ALARM CONTROL PANEL		
	$\overline{\bigcirc}$	PULL STATION		
	\bigcirc	SMOKE DETECTOR		
		WALL HORN ONLY		
[Žw ▽			
[<u>Ňwp</u>	OUTSIDE HORN/STROBE FOR WATER FLOW		
	× ?			
	<i>ı∳ı</i>	FLOW DETECTOR/SWITCH		
	<u>S</u>			
		18/2 CABLE SLC LOOP		
		14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP		
	EOL	END-OF-LINE RESISTOR		
	* ALL S	SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS		
10	TES:			
	SECTIONS	ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE S OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL LE NFPA STANDARDS. INCLUDING CHAPTER 72.		
	INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.			
	ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.			
	WHERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.			
i.	TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCLIMATION IN SMOKE DETECTORS AND WILL NOT WARRANTEE DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.			
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	VENTS. S	OCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR MOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS CHES FROM SIDEWALL.		
		G CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF AFFECT CIRCUIT CONFIGURATIONS.		
		PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR DANCE WITH NFPA/ADA GUIDELINES.		
0.	HORNS W ALARM IS	ILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL RESET.		
1.	SYSTEM I	S AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.		
2.	SEE APAF	TMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.		
3.	ALL DEVIC	ES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.		
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JOB NO. **705921** DATE 03.15.2023 DRAWNBY Author 9/15/2023



NAC	CIRCUIT VO	TAGE DROP		NAC CIRC		GE DROP		NAC CIR		GE DROP	
Bldg 1 - NAC 1-1				Bldg 1 - NAC 1-2				Bldg 1 - NAC 1-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	U	QTY	AMPS EACH	TOTAL AMP
HORN/STROBE - 75	3	0.2	0.6	HORN/STROBE - 75		0.2	0	HORN/STROBE - 75	9	0.2	1.8
STROBE - 15/75		0.077	0	STROBE - 15/75	3	0.077	0.231	STROBE - 15/75		0.077	0
LF HORN	9	0.08	0.72	LF HORN	8	0.08	0.64	LF HORN		0.08	0
LF HORN/STROBE		0.1	0	LF HORN/STROBE	5	0.1	0.5	LF HORN/STROBE		0.1	0
TOTAL	- 1		1.32	TOTAL	I		1.371	TOTAL			1.8
LOOP LENGTH	500	WIRE SIZE	#14	LOOP LENGTH	450	WIRE SIZE	#14	LOOP LENGTH	470	WIRE SIZE	#14
NOM. VOLTS	LOSS		MIN. VOLTS	NOM. VOLTS	LOSS		MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	3.37	20.63	16	24	3.15	20.85	16	24	4.31	19.69	16
	CIRCUIT VO	TAGE DROP				GE DROP				GE DROP	
Bldg 1 - NAC 2-1	<u> </u>			Bldg 1 - NAC 2-2				Bldg 1 - NAC 2-3	AT <i>i</i>		
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMP
HORN/STROBE - 75	4	0.2	0.8	HORN/STROBE - 75	11	0.2	2.2	HORN/STROBE - 75	5	0.2	1
STROBE - 15/75		0.077	0	STROBE - 15/75	9	0.077	0.693	STROBE - 15/75	9	0.077	0.693
LF HORN	8	0.08	0.64	LF HORN		0.08	0	LF HORN		0.08	0
LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0	LF HORN/STROBE		0.1	0
· · ·		0.1		TOTAL		0.1	_	TOTAL		0.1	_
TOTAL	400		1.44	-		14//DE 0:=-	2.893				1.693
LOOP LENGTH	400	WIRE SIZE	#14	LOOP LENGTH	490	WIRE SIZE	#14	LOOP LENGTH	320	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	2.94	21.06	16	24	7.23	16.77	16	24	2.76	21.24	16
											I
		TAGE DROP								GE DKOP	
Bldg 1 - NAC 2-4	-			Bldg 1 - NAC 3-1, 4-1, 6-1	-			Bldg 1 - NAC 3-2, 4-2, 6-2	-		-
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	5	0.2	1	HORN/STROBE - 75	3	0.2	0.6	HORN/STROBE - 75	1	0.2	0.2
STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0
LF HORN	13	0.08	1.04	LF HORN	11	0.08	0.88	LF HORN	10	0.08	0.8
LF HORN/STROBE	15	0.1	0	LF HORN/STROBE		0.1	0.00	LF HORN/STROBE	10	0.1	0.0
		0.1	_			0.1		-		0.1	0
TOTAL			2.04	TOTAL			1.48	TOTAL			1
LOOP LENGTH	650	WIRE SIZE	#14	LOOP LENGTH	580	WIRE SIZE	#14	LOOP LENGTH	450	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	6.76	17.24	16	24	4.38	19.62	16	24	2.30	21.71	16
			10				10				10
	CIRCUIT VO	TAGE DROP				DE DROP				GE DROP	
Bldg 1 - NAC 3-3, 4-3,				Bldg 1 - NAC 5-1, 5-3				Bldg 1 - NAC 5-2, 5-4			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	6	0.2	1.2	HORN/STROBE - 75	4	0.2	0.8	HORN/STROBE - 75	3	0.2	0.6
HORN/STROBE - 75 STROBE - 15/75	6	0.2	1.2 0	HORN/STROBE - 75 STROBE - 15/75	4	0.2	0.8 0	HORN/STROBE - 75 STROBE - 15/75	3	0.2	0.6
STROBE - 15/75		0.077	0	STROBE - 15/75		0.077	0	STROBE - 15/75	3	0.077	0
STROBE - 15/75 LF HORN	6 11	0.077 0.08	0 0.88	STROBE - 15/75 LF HORN	4	0.077 0.08	0 0.88	STROBE - 15/75 LF HORN		0.077 0.08	0 0.48
STROBE - 15/75 LF HORN LF HORN/STROBE		0.077	0 0.88 0	STROBE - 15/75 LF HORN LF HORN/STROBE		0.077	0 0.88 0	STROBE - 15/75 LF HORN LF HORN/STROBE		0.077	0 0.48 0
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	11	0.077 0.08 0.1	0 0.88 0 2.08	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	11	0.077 0.08 0.1	0 0.88 0 1.68	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	6	0.077 0.08 0.1	0 0.48 0 1.08
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	700	0.077 0.08 0.1 WIRE SIZE	0 0.88 0 2.08 #14	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	550	0.077 0.08 0.1 WIRE SIZE	0 0.88 0 1.68 #14	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	6 420	0.077 0.08 0.1 WIRE SIZE	0 0.48 0 1.08 #14
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	11	0.077 0.08 0.1 WIRE SIZE	0 0.88 0 2.08	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	11	0.077 0.08 0.1 WIRE SIZE	0 0.88 0 1.68	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	6	0.077 0.08 0.1	0 0.48 0 1.08 #14
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	700	0.077 0.08 0.1 WIRE SIZE	0 0.88 0 2.08 #14	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	550	0.077 0.08 0.1 WIRE SIZE	0 0.88 0 1.68 #14	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	6 420	0.077 0.08 0.1 WIRE SIZE	0 0.48 0 1.08 #14
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 700 LOSS 7.43	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57	0 0.88 0 2.08 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 550 LOSS 4.71	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29	0 0.88 0 1.68 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	6 420 LOSS 2.31	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69	0 0.48 0 1.08 #14 MIN. VOLTS
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC	11 700 LOSS 7.43	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS	0 0.88 0 2.08 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC	11 550 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29	0 0.88 0 1.68 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR	6 420 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69	0 0.48 0 1.08 #14 MIN. VOLTS
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 700 LOSS 7.43	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP	0 0.88 0 2.08 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 550 LOSS 4.71	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29	0 0.88 0 1.68 #14 MIN. VOLTS 16	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3	6 420 LOSS 2.31	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69	0 0.48 0 1.08 #14 MIN. VOLTS 16
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE	11 700 LOSS 7.43 CIRCUIT VO	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE	11 550 LOSS 4.71 CUIT VOLTAG	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 5E DROP AMPS EACH	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE	6 420 LOSS 2.31 CUIT VOLTA	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75	700 LOSS 7.43 CIRCUIT VO	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75	11 550 LOSS 4.71 CUIT VOLTAG QTY 7	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 5E DROP AMPS EACH 0.2	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75	6 420 LOSS 2.31 CUIT VOLTA QTY 5	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	11 700 LOSS 7.43 CIRCUIT VO	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 5E DROP AMPS EACH 0.2 0.077	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	6 420 LOSS 2.31 CUIT VOLTA QTY 5 3	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	11 700 LOSS 7.43 CIRCUIT VO	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	11 550 LOSS 4.71 CUIT VOLTAG QTY 7	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 5E DROP AMPS EACH 0.2	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75	6 420 LOSS 2.31 CUIT VOLTA QTY 5	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	11 700 LOSS 7.43 CIRCUIT VO	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 5E DROP AMPS EACH 0.2 0.077	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	6 420 LOSS 2.31 CUIT VOLTA QTY 5 3	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	11 700 LOSS 7.43 CIRCUIT VO	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2 7 2 7	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	6 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NOM. VOLTS 24 NOM. NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC NAC N N N N N N N N	11 700 LOSS 7.43 CIRCUIT VO QTY 4 1	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0 0 0 0 0.8	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2 7 2 7 3	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL	6 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 5	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	200	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2 7 2 7 3 3	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	6 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 700	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051 #14
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS	11 700 LOSS 7.43 CIRCUIT VO QTY 4 200 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0.8 0 0 0 0 0 0 0.8 14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2 7 2 7 3 640 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS	420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 700 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051 #14 MIN. VOLTS
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS	200	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2 7 2 7 3 3	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH	6 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 700	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051 #14
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 700 LOSS 7.43 CIRCUIT VO QTY 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0.8 0 0 0 0 0 0 0.8 14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 550 LOSS 4.71 CUIT VOLTAG QTY 2 7 2 7 3 640 LOSS 7.88	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	6 420 LOSS 2.31 CUIT VOLTA CUIT VOLTA 5 3 4 5 3 4 5 5 3 4 5 5 700 LOSS 7.32	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051 #14 MIN. VOLTS
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 700 LOSS 7.43 CIRCUIT VO QTY 4 200 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0.8 0 0 0 0 0 0 0.8 14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 550 LOSS 4.71 CUIT VOLTAG QTY 7 2 7 2 7 3 640 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 700 LOSS	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051 #14 MIN. VOLTS
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 700 LOSS 7.43 CIRCUIT VO QTY 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0.8 0 0 0 0 0 0 0.8 14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	11 550 LOSS 4.71 CUIT VOLTAG QTY 2 7 2 7 3 640 LOSS 7.88	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24	6 420 LOSS 2.31 CUIT VOLTA CUIT VOLTA 5 3 4 5 3 4 5 5 3 4 5 5 700 LOSS 7.32	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051 #14 MIN. VOLTS
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NOM. VOLTS 24 NORN /STROBE - 15/75 STROBE - 15/75 LF HORN LF HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE 1000 LENGTH NOM. VOLTS 24 NOM. VOLTS 24	11 700 LOSS 7.43 CIRCUIT VO QTY 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.8 0 0.8 0 0 0 0 0 0 0.8 14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC	11 550 LOSS 4.71 CUIT VOLTAG QTY 2 7 2 7 3 640 LOSS 7.88	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12 B DROP	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14 MIN. VOLTS	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 2-2, 3-1, 3-4	6 420 LOSS 2.31 CUIT VOLTA CUIT VOLTA 5 3 4 5 3 4 5 5 3 4 5 5 700 LOSS 7.32	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 1 0.231 0.32 0.5 2.051 #14 MIN. VOLTS 16
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24	11 700 LOSS 7.43 CIRCUIT VO QTY 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 AMPS EACH	0 0.88 0 2.08 #14 MIN. VOLTS 16 70TAL AMPS 0 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 2-1, 2-3, 3-3 APPLIANCE	11 550 LOSS 4.71 CUIT VOLTAG 7 2 7 2 7 3 640 LOSS 7.88 CUIT VOLTAG QTY	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12 E DROP	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 1.4 0.154 0.56 0.3 2.414 #14 MIN. VOLTS 16	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 2-2, 3-1, 3-4 APPLIANCE	420 LOSS 2.31 CUIT VOLTA 5 3 4 5 3 4 5 700 LOSS 7.32	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68 GE DROP AMPS EACH	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.32 0.5 2.051 #14 MIN. VOLTS 16 TOTAL AMPS 16
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 75	11 700 LOSS 7.43 QTY QTY 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 TAGE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 TAGE DROP AMPS EACH AMPS EACH	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bldg 2 - NAC 2-1, 2-3, 3-3 APPLIANCE HORN/STROBE - 75	11 550 LOSS 4.71 CUIT VOLTAG 7 2 7 3 640 LOSS 7.88	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12 E DROP AMPS EACH 0.2	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 0.56 0.3 2.414 #14 MIN. VOLTS 16 TOTAL AMPS 16	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 75	6 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 5 3 4 5 5 3 4 5 5 3 4 5 5 3 2 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 3 3 4 5 5 5 3 3 4 5 5 5 3 3 4 5 5 5 3 3 4 5 5 5 3 3 4 5 5 5 5	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68 GE DROP AMPS EACH	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.32 0.5 2.051 #14 MIN. VOLTS 16 TOTAL AMPS 16
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 15/75	11 700 LOSS 7.43 CIRCUIT VO 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 AMPS EACH O.2 0.2 0.2 0.2 0.2 0.2 0.2 0.077	0 0.88 0 2.08 #14 MIN. VOLTS 16 70TAL AMPS 0 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 2-1, 2-3, 3-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	11 550 LOSS 4.71 CUIT VOLTAG 7 2 7 2 7 3 640 LOSS 7.88 CUIT VOLTAG QTY 5 9 9 9 9 9 9 10 11 12 13 14	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12 E DROP AMPS EACH 0.2 0.077	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 0.154 0.56 0.3 2.414 #14 MIN. VOLTS 16 TOTAL AMPS 16	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 75 STROBE - 15/75	420 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 700 LOSS 7.32 CUIT VOLTA CUIT VOLTA QTY 2 QTY 2	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68 GE DROP AMPS EACH 0.2 0.077	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.32 0.5 2.051 #14 MIN. VOLTS 16 TOTAL AMPS 0.4 0 0.4 0
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 15/75 LF HORN	11 700 LOSS 7.43 CIRCUIT VO QTY 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 XAGE DROP AMPS EACH 0.2 0.077 0.08	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 2-1, 2-3, 3-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	11 550 LOSS 4.71 CUIT VOLTAG 7 2 7 2 7 3 640 LOSS 7.88 CUIT VOLTAG QTY	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12 E DROP AMPS EACH 0.2 0.077 0.08	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 0.154 0.154 0.56 0.3 2.414 #14 MIN. VOLTS 16 TOTAL AMPS 16 10 10 0.96	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 2-2, 3-1, 3-4 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	420 LOSS 2.31 CUIT VOLTA 5 3 4 5 3 4 5 700 LOSS 7.32	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68 GE DROP AMPS EACH 0.2 0.077 0.08	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.32 0.5 2.051 #14 MIN. VOLTS 16 TOTAL AMPS 0.4 0 0.96
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC Bldg 2 - NAC 1-1 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 15/75 STROBE - 15/75	11 700 LOSS 7.43 CIRCUIT VO 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 AMPS EACH O.2 0.2 0.2 0.2 0.2 0.2 0.2 0.077	0 0.88 0 2.08 #14 MIN. VOLTS 16 70TAL AMPS 0 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 2-1, 2-3, 3-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75	11 550 LOSS 4.71 CUIT VOLTAG 7 2 7 2 7 3 640 LOSS 7.88 CUIT VOLTAG QTY 5 9 9 9 9 9 9 10 11 12 13 14	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12 E DROP AMPS EACH 0.2 0.077	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 0.154 0.56 0.3 2.414 #14 MIN. VOLTS 16 TOTAL AMPS 16	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 75 STROBE - 15/75	420 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 700 LOSS 7.32 CUIT VOLTA CUIT VOLTA QTY 2 QTY 2	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68 GE DROP AMPS EACH 0.2 0.077	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.32 0.5 2.051 #14 MIN. VOLTS 16 TOTAL AMPS 0.4 0 0.4 0
STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NORN/STROBE - 15/75 LF HORN LF HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 HORN/STROBE - 15/75 LF HORN	11 700 LOSS 7.43 CIRCUIT VO 4 200 LOSS 0.82	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.57 AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 23.18 XAGE DROP AMPS EACH 0.2 0.077 0.08	0 0.88 0 2.08 #14 MIN. VOLTS 16 TOTAL AMPS 0 0 0 0 0 0 0 0 0 0 0 0 0	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 1-2 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIRC Bidg 2 - NAC 2-1, 2-3, 3-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	11 550 LOSS 4.71 CUIT VOLTAG 7 2 7 2 7 3 640 LOSS 7.88 CUIT VOLTAG QTY 5 9 9 9 9 9 9 10 11 12 13 14	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 19.29 E DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.12 E DROP AMPS EACH 0.2 0.077 0.08	0 0.88 0 1.68 #14 MIN. VOLTS 16 TOTAL AMPS 0.154 0.154 0.56 0.3 2.414 #14 MIN. VOLTS 16 TOTAL AMPS 16 10 10 0.96	STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 1-3 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN LF HORN/STROBE TOTAL LOOP LENGTH NOM. VOLTS 24 NOM. VOLTS 24 NAC CIR Bldg 2 - NAC 2-2, 3-1, 3-4 APPLIANCE HORN/STROBE - 75 STROBE - 15/75 LF HORN	420 420 LOSS 2.31 CUIT VOLTA QTY 5 3 4 5 3 4 5 700 LOSS 7.32 CUIT VOLTA CUIT VOLTA QTY 2 QTY 2	0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 21.69 GE DROP AMPS EACH 0.2 0.077 0.08 0.1 WIRE SIZE FINAL VOLTS 16.68 GE DROP AMPS EACH 0.2 0.077 0.08	0 0.48 0 1.08 #14 MIN. VOLTS 16 TOTAL AMPS 0.32 0.5 2.051 #14 MIN. VOLTS 16 TOTAL AMPS 0.4 0 0.96

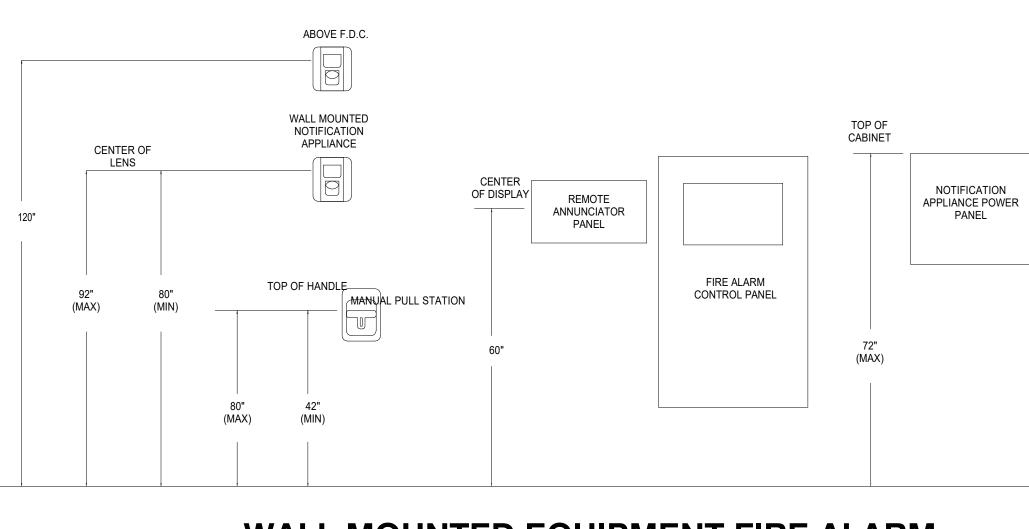
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS				
24	5.27	18.73	16				
NAC CIRCUIT VOLTAGE DROP							
Bldg 2 - NAC 2-3, 2-5	, 3-5						
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS				
HORN/STROBE - 75	7	0.2	1.4				
STROBE - 15/75		0.077	0				
LF HORN	9	0.08	0.72				
LF HORN/STROBE		0.1	0				
TOTAL			2.12				
LOOP LENGTH	420	WIRE SIZE	#14				
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS				
24	4.54	19.46	16				

WIRE SIZE #14

550

LOOP LENGTH

	NAC CIRCU	T VOLTAG	E DROP		
	Bldg 2 - NAC 2-1, 2-3, 3-3				Bldg 2 - NAC 2-
	APPLIANCE	QTY	AMPS EACH	TOTAL AMPS	APPLIANCE
	HORN/STROBE - 75	5	0.2	1	HORN/STROBE
	STROBE - 15/75		0.077	0	STROBE - 15/75
	LF HORN	12	0.08	0.96	LF HORN
	LF HORN/STROBE		0.1	0	LF HORN/STROI
	TOTAL			1.96	TOTAL
	LOOP LENGTH	560	WIRE SIZE	#14	LOOP LENGTH
	NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS	NOM. VOLTS
	24	5.60	18.40	16	24
-					



WALL MOUNTED EQUIPMENT FIRE ALARM 1 INSTALLATION HEIGHTS/DETAILS

Jobsite Information: Summit Square 3 Bldg 1

FCPS-24FS6 / 8 Battery Calculation

Regulated Load in Standby

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

Regulated Load in ALARM

	Number of		Current		Total Current
Device Type	Devices		(Amps)		(Amps)
Main PC Board without AC	1	Х	0.145	=	0.145
Power Supervision Relays		Х	0.025	=	0
Auxiliary Current Draw		Х		=	0
from TB4 Terminals 9 & 10					
NAC / Output # 1	21	Х	0.08	=	1.68
Strobes					
NAC / Output # 2	85	Х	0.08	=	6.8
Horn/Strobes					
NAC / Output # 3	165	Х	0.1	=	16.5
LF Horns					
NAC / Output # 4		Х		=	0
Spare			ALARM		
· ·			LOAD	=	25.125

Battery Amp Hour Calculation

Standby Load			Require	d Standby T	ime		
Current (Amps)			(Typically 24 or 60 Hours)				
	0.065	X	24	=	1.56	AH	
Alarm Load				d Alarm Tim			
Current (Amps)			(Typica	lly 5 or 10 M	inutes)		
	25.125	X	10	=	4.19	AH	
	Sub To	tal Standl	by / Alarm	Amp Hours	5.75	AH	
	Mult	1.2	ΆH				
	Total A	Total Ampere Hours Required =					

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

SYSTEM INPUTS manual pull station area smoke detector fire sprinkler system water flow fire spinkler system tamper fire alarm AC power failure fire alarm low battery fire alarm open circuit fire alarm ground fault notification appliance circuit fault fire alarm panel clear

620 WIRE SIZE #14

LOSSFINAL VOLTSMIN. VOLTS4.3019.7016

Jobsite Information: Summit Square 3 Bldg 2

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

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

Regulated Load in ALARM

	Number of		Current		Total Current
Device Type	Devices		(Amps)		(Amps)
Main PC Board without AC	1	Х	0.145	=	0.145
Power Supervision Relays		X	0.025	=	0
Auxiliary Current Draw		X		I	0
from TB4 Terminals 9 & 10					
NAC / Output # 1	5	X	0.08	II	0.4
Strobes					
NAC / Output # 2	48	X	0.08	II	3.84
Horn/Strobes					
NAC / Output # 3	143	X	0.1	II	14.3
LF Horns					
NAC / Output # 4		Х		=	0
Spare			ALARM		
			LOAD	=	18.685

Battery Amp Hour Calculation

Standby LoadRequired Standby Time (Typically 24 or 60 Hours) 0.065 X24= 1.56 Required Alarm Time (Typically 5 or 10 Minutes) 18.685 X 10 = 3.11 Sub Total Standby / Alarm Amp Hours 4.67 Multiply by the Derating Factor X 1.2		Total An	npere Ho	ours Requ	ired =	6	
Current (Amps) (Typically 24 or 60 Hours) 0.065 X 24 = 1.56 Alarm Load Required Alarm Time Current (Amps) (Typically 5 or 10 Minutes) 18.685 X 10 = 3.11		Multip	oly by the	Derating Fa	actor X	1.2	ΆH
Current (Amps)(Typically 24 or 60 Hours)0.065X24=Alarm LoadRequired Alarm TimeCurrent (Amps)(Typically 5 or 10 Minutes)		Sub Tot	al Standb	y / Alarm A	mp Hours	4.67	AH
Current (Amps)(Typically 24 or 60 Hours)0.065X24=1.56Required Alarm TimeCurrent (Amps)(Typically 5 or 10 Minutes)		18.685	X	10	=	3.11	AH
Current (Amps)(Typically 24 or 60 Hours)0.065X24=Alarm LoadRequired Alarm Time	Current (Amps)				7 5 or 10 M	,	
Current (Amps) (Typically 24 or 60 Hours)	Alarm Load						
		0.065	Х	24	=	1.56	AH
	Current (Amps)			(Typically	/ 24 or 60	Hours)	
	Standby Load						

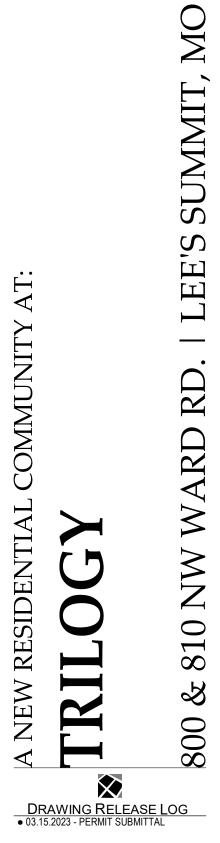
* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

	FIRE ALARM SEQUENCE OF OPERATION MATRIX													
SYSTEM OUTPUTS	audible alarms activation	actuate strobes	transmit alarm to remote	Bisbigy alarm signal	display supervisory signal	display trouble signal	transmit supervisory signal	transmit trouble signal	record event at FACP	activate outside flow bell	release magnetic door holders	recall elevator to lowest level	recall elevator to alternate	level
	A	В	С	D	Ε	F	G	Η	I	J	К	L	Μ	
	Х	Х	Х	Х					Х		Х	Х		1
	Х	Х	Х	Х					Х		Х	Х	Х	2
	Х	Х	Х	Х					Х	Х	Х	Х		2 3 4
					Х		Х		Х					4
						Х		Х	Х					5 6
						Х		Х	Х					6
						Х		Х	X X					7
						Х		Х						8
						Х		Х	Х					9
									Х					10
	A	В	С	D	Ε	F	G	Н	Ι	J	Κ	L	Μ]

	NFPA SYMBOLS LEGEND						
FC	P FIRE ALARM CONTROL PANEL						
•							
9	SMOKE DETECTOR						
	WALL HORN ONLY						
	HORN/STROBE WALL LOW FREQUENCY						
<u>Ň</u> ı	VP OUTSIDE HORN/STROBE FOR WATER FLOW						
<u>)</u>	STROBE ONLY						
<u>بر</u>	S FLOW DETECTOR/SWITCH						
<u></u>	TAMPER DETECTOR						
	18/2 CABLE SLC LOOP						
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP						
EO	L END-OF-LINE RESISTOR						
	* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS						
ΟΤΕ	S:						
SE	L FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE CTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL PLICABLE NFPA STANDARDS. INCLUDING CHAPTER 72.						
	STALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR CAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.						
	ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.						
W	HERE CONDUCTORS ARE RUN IN CONDUIT USE ONLY APPROVED CABLE THIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDS SHALL TERMINATE AT IE FIRE ALARM CONTROL PANEL (FACP) ONLY.						
DE NC SU FC DE AF	AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE TECTORS, IT IS RECOMMENDED THAT THE SMOKE SMOKE DETECTORS DT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE IBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE OR DUST ACCLIMATION IN SMOKE DETECTORS AND WILL NOT WARRANTEE EVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS RE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH TECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.						
A١	L FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS, ID GROUNDS. A SMOKE DETECTOR MUST BE LOCATED WITHIN FIVE FEET DRIZONTALLY OF THE FIRE ALARM CONTROL PANEL.						
VE	NOT LOCATE SMOKE DETECTORS WITHIN THREE FEET OF SUPPLY AIR NTS. SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS IAN 4 INCHES FROM SIDEWALL.						
	GNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF RE MAY AFFECT CIRCUIT CONFIGURATIONS.						
	NUAL PULL STATIONS SHOULD BE 48 INCHES ABOVE THE FINISHED FLOOR ACCORDANCE WITH NFPA/ADA GUIDELINES.						
	ORNS WILL REMAIN ON UNTIL SILENCED AND STROBES WILL REMAIN UNTIL ARM IS RESET.						
l. S1	STEM IS AN ADDRESSABLE SUPERVISED PROTECTED PREMISES SYSTEM.						
. Se	E APARTMENT PLANS FOR SMOKE/CO DETECTION WITHIN UNITS.						
. AL	L DEVICES SHALL BE VISIBLE IN TYPE A - ACCESSIBLE UNITS.						
BE	PABILITY OF FUTURE ADDITIONS SHALL BE PROVIDED VIA BLANK BOXES IN DROOMS AS SHOWN AND WIRE SIZES WITH SPARE CAPACITY. ALSO						
	MOTE-WIRELESS UNITS CAN BE PROVIDED.						

15. THIS SYSTEM COMPLIES WITH THE APPLICABLE SECTIONS OF ASME AND ANSI AS DICTATED BY THE DIVISION OF MISSOURI FIRE SAFETY, ELEVATOR SAFETY UNIT. ELEVATORS WILL COMPLY WITH ASME A17.1 2019 EDITION.

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DATE 03.15.2023

