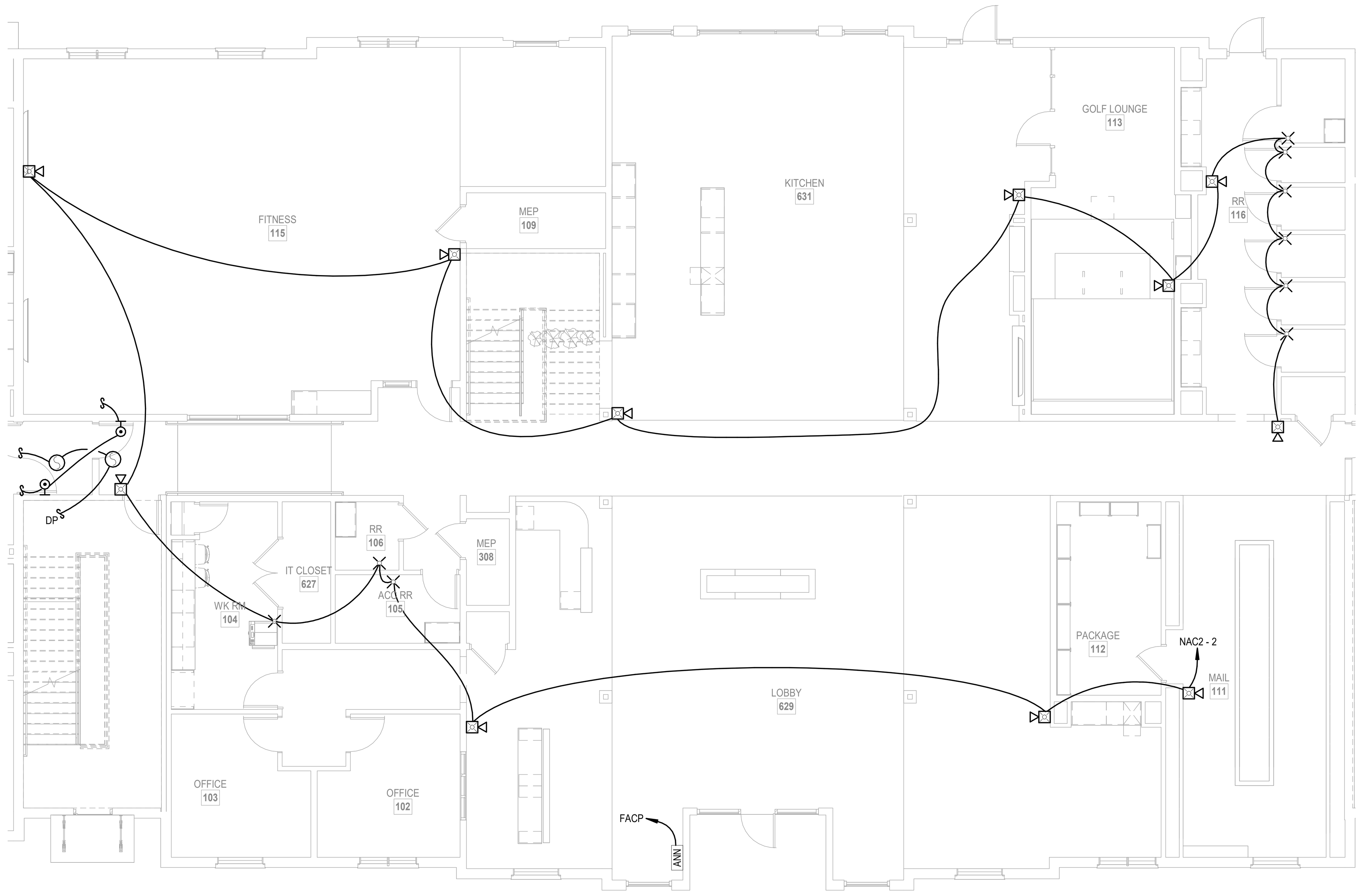
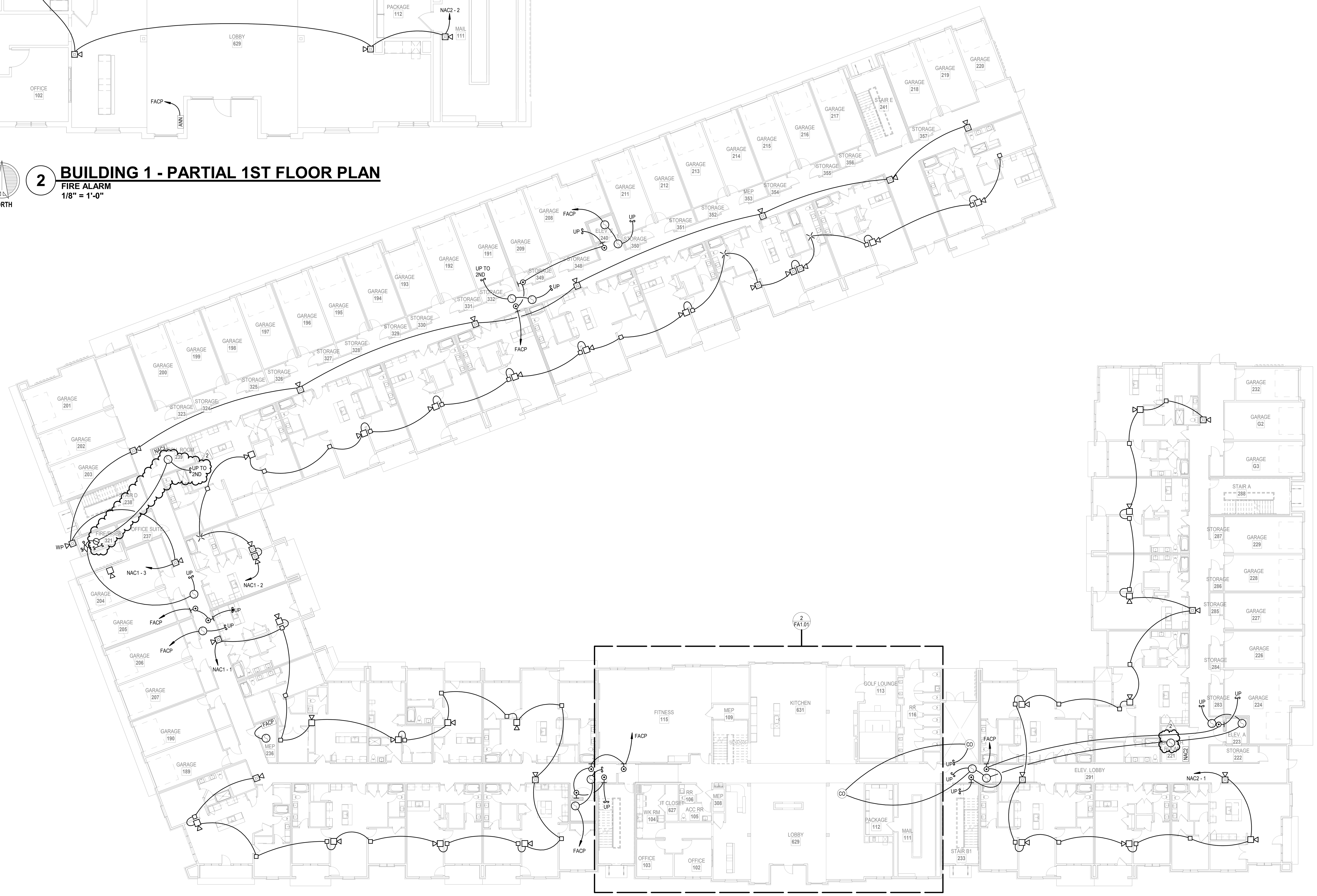


2 BUILDING 1 - PARTIAL 1ST FLOOR PLAN

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

NORTH



1 BUILDING 1 - OVERALL 1ST FLOOR PLAN

FIRE ALARM
1/16" = 1'-0"

NORTH

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	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	

NOTES:

1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS. INCLUDING CHAPTER 72.
2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
3. ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. 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.
5. 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.
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.
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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.
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PRAIRIE VILLAGE, KS 66208

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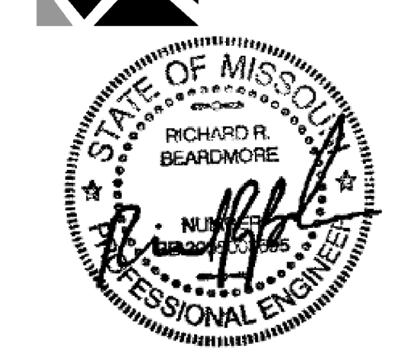

04/12/2024

A NEW RESIDENTIAL COMMUNITY AT:

TRILOGY

800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
● 03.15.2023 - PERMIT SUBMITTAL

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri

05/01/2024

REVISIONS

1	04/02/2024	City Response
2	04/12/2024	City Response

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

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8625 College Boulevard, Suite 102
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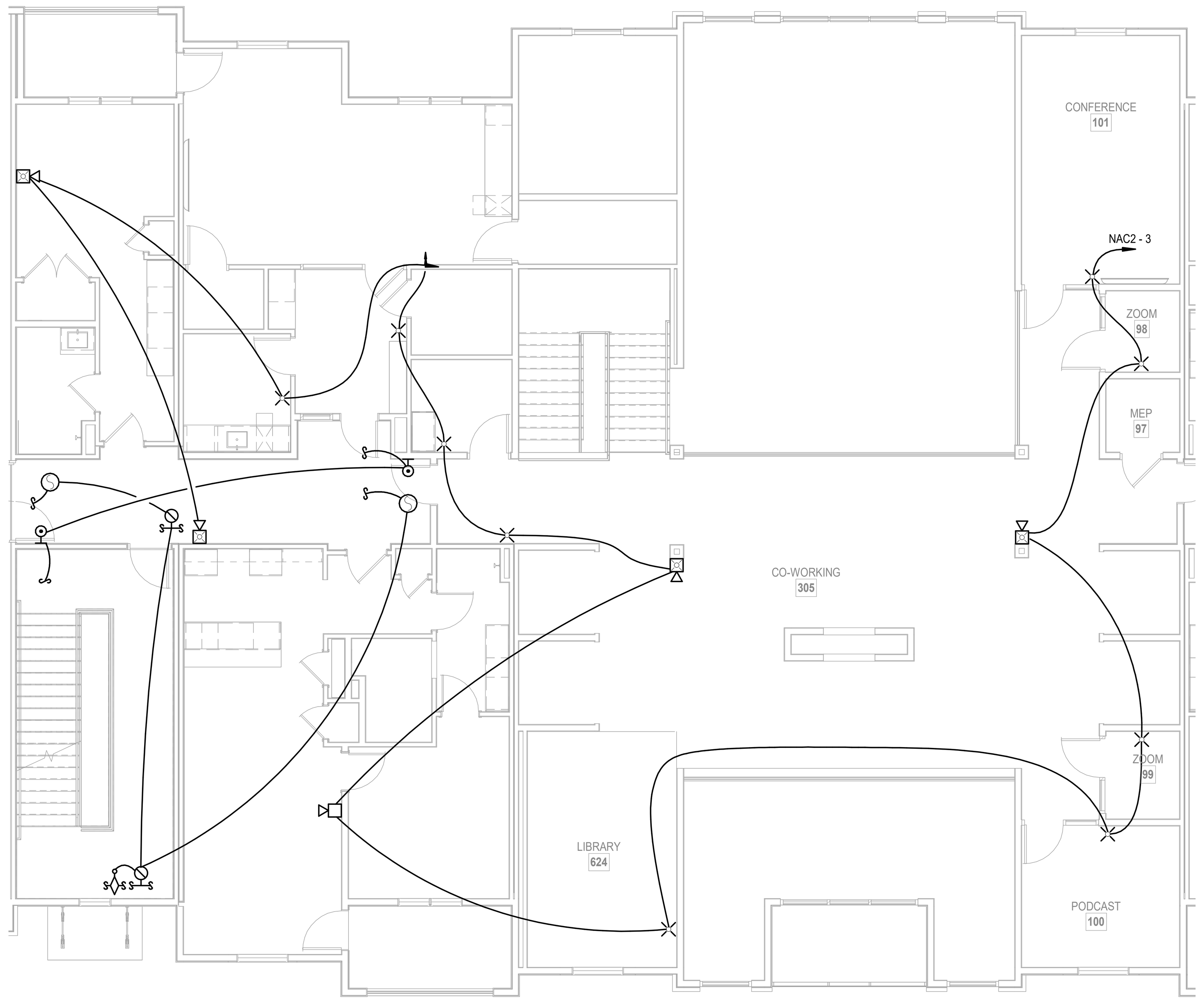
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

SHEET NAME
BUILDING 1 OVERALL FIRST FLOOR PLAN
SHEET NO.
FA1.01

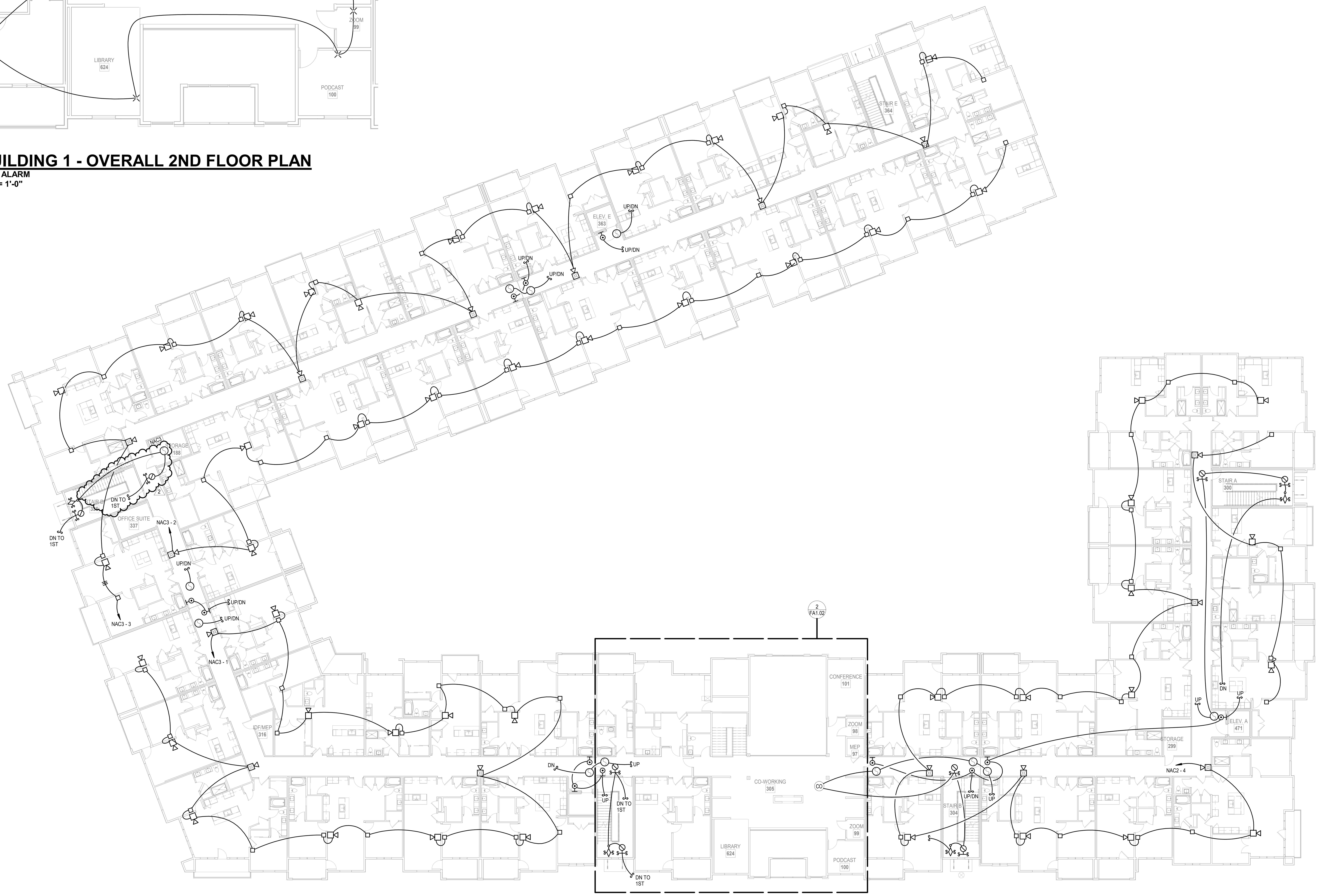
ARCH E1 30" x 42"



2 BUILDING 1 - OVERALL 2ND FLOOR PLAN

NORTH

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



1 BUILDING 1 - OVERALL 2ND FLOOR PLAN

NORTH

FIRE ALARM
1/16" = 1'-0"

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	18/2 CABLE SLC LOOP
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP
EOL	END-OF-LINE RESISTOR

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STATE OF MISSOURI
RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER
04/12/2024

A NEW RESIDENTIAL COMMUNITY AT:

TRILOGY

800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG

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REVISIONS

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JOB NO. 705921

DATE 03.15.2023

DRAWN BY Author

9/15/2023

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LSA PROJECT NO. 2204061

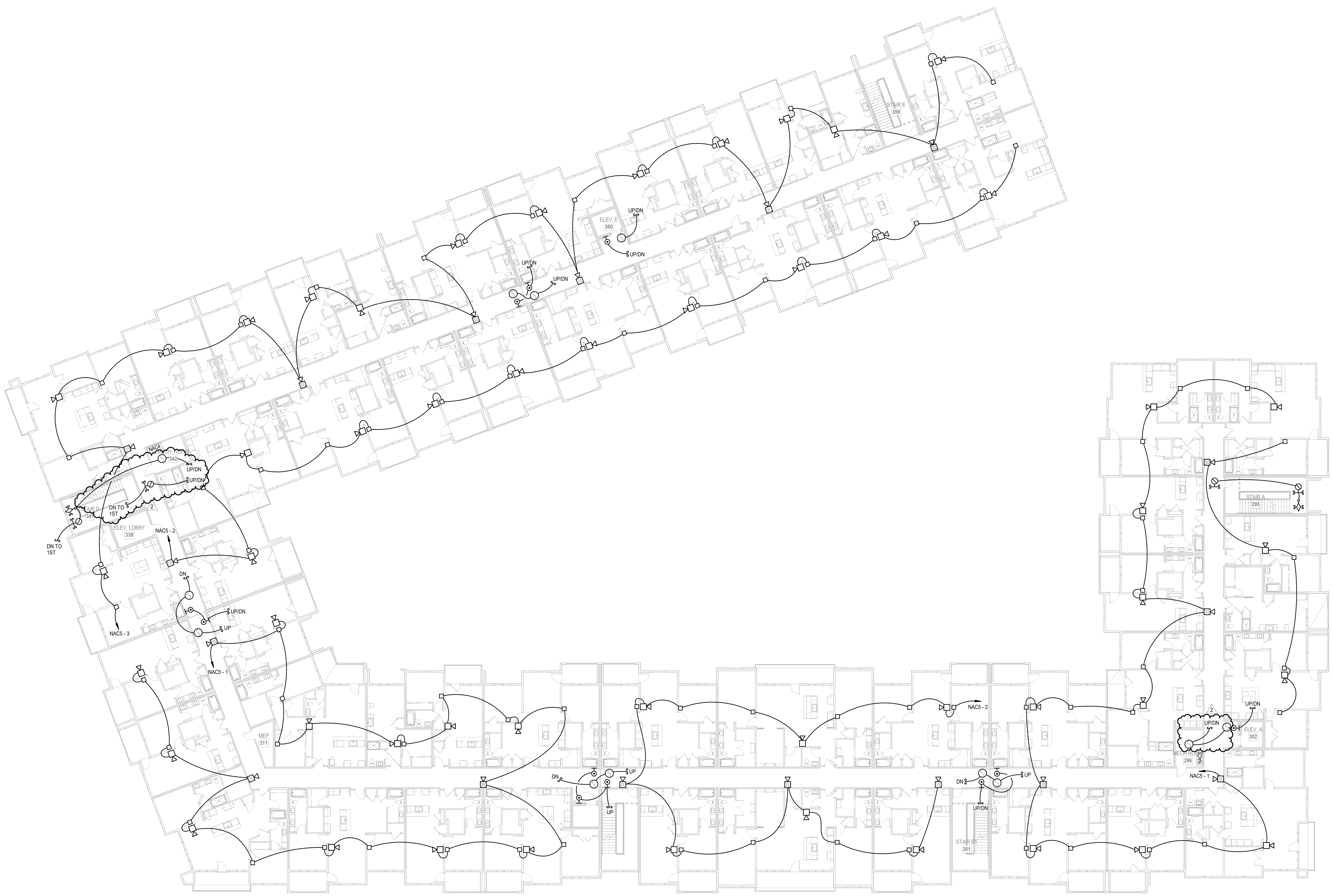
SHEET NAME
BUILDING 1 OVERALL SECOND FLOOR PLAN

SHEET NO.
FA1.02

4/15/2024 8:25:08 AM

ARCH E1 30" x 42"

4/15/2024 8:25:16 AM



1 **BUILDING 1 - OVERALL 3RD FLOOR PLAN**
FIRE ALARM
1/16" = 1'-0"

NORTH

NFPA SYMBOLS LEGEND

FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	18/2 CABLE SLC LOOP
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP
EOL	END-OF-LINE RESISTOR

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NSPJARCH.COM

STATE OF MISSOURI
RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER
04/12/2024

A NEW RESIDENTIAL COMMUNITY AT:
TRILOGY
800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

REVISIONS

1	04/02/2024	City Response
2	04/12/2024	City Response

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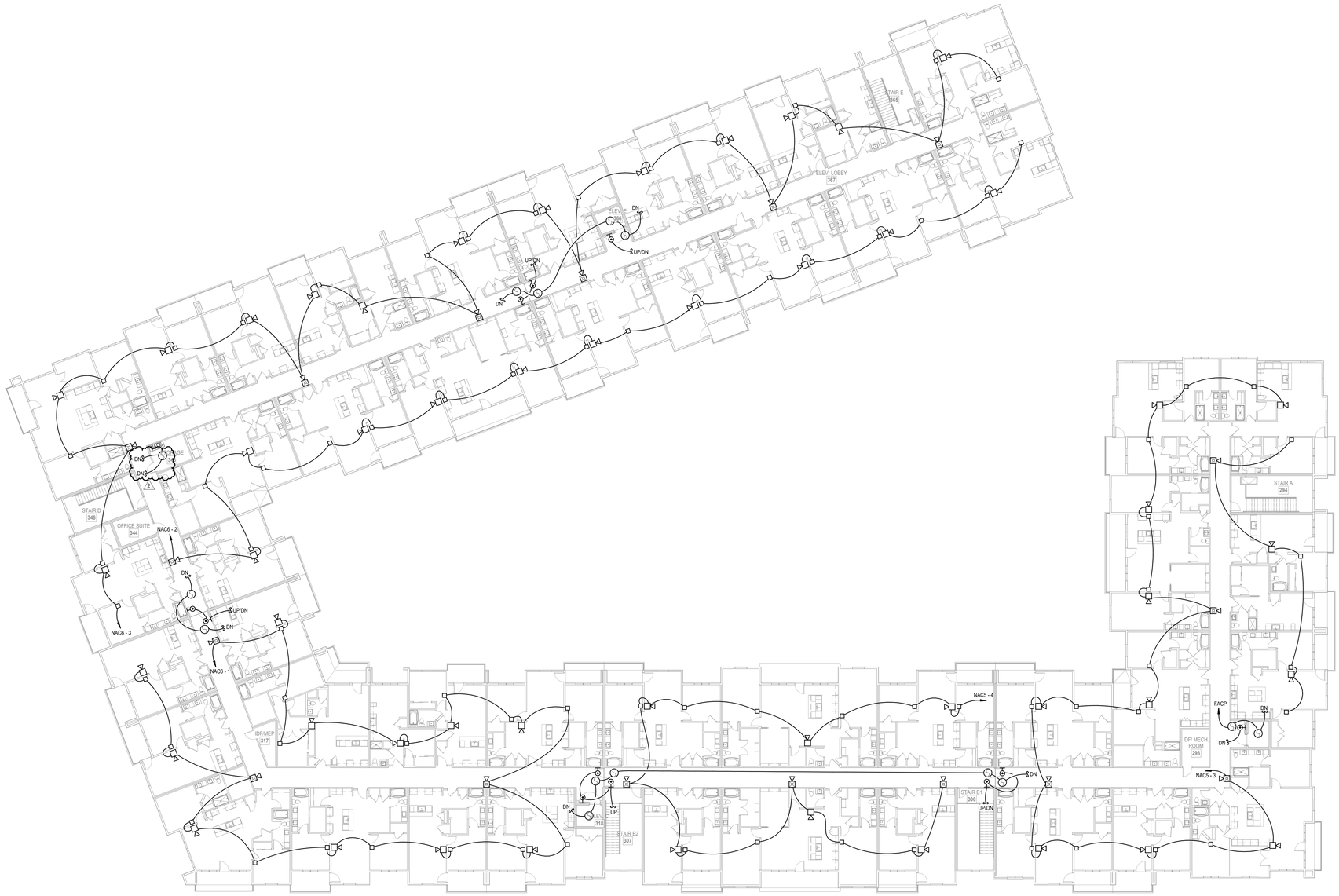
LSA PROJECT NO. 2204061

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

SHEET NAME
BUILDING 1 OVERALL THIRD FLOOR PLAN

SHEET NO.
FA1.03



NORTH

1 BUILDING 1 - OVERALL 4TH FLOOR PLAN

FIRE ALARM

1/16" = 1'-0"

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
FS	FLOW DETECTOR/SWITCH
TS	TAMPER DETECTOR
	18/2 CABLE SLC LOOP
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP
EOL	END-OF-LINE RESISTOR

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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

04/12/2024

A NEW RESIDENTIAL COMMUNITY AT:

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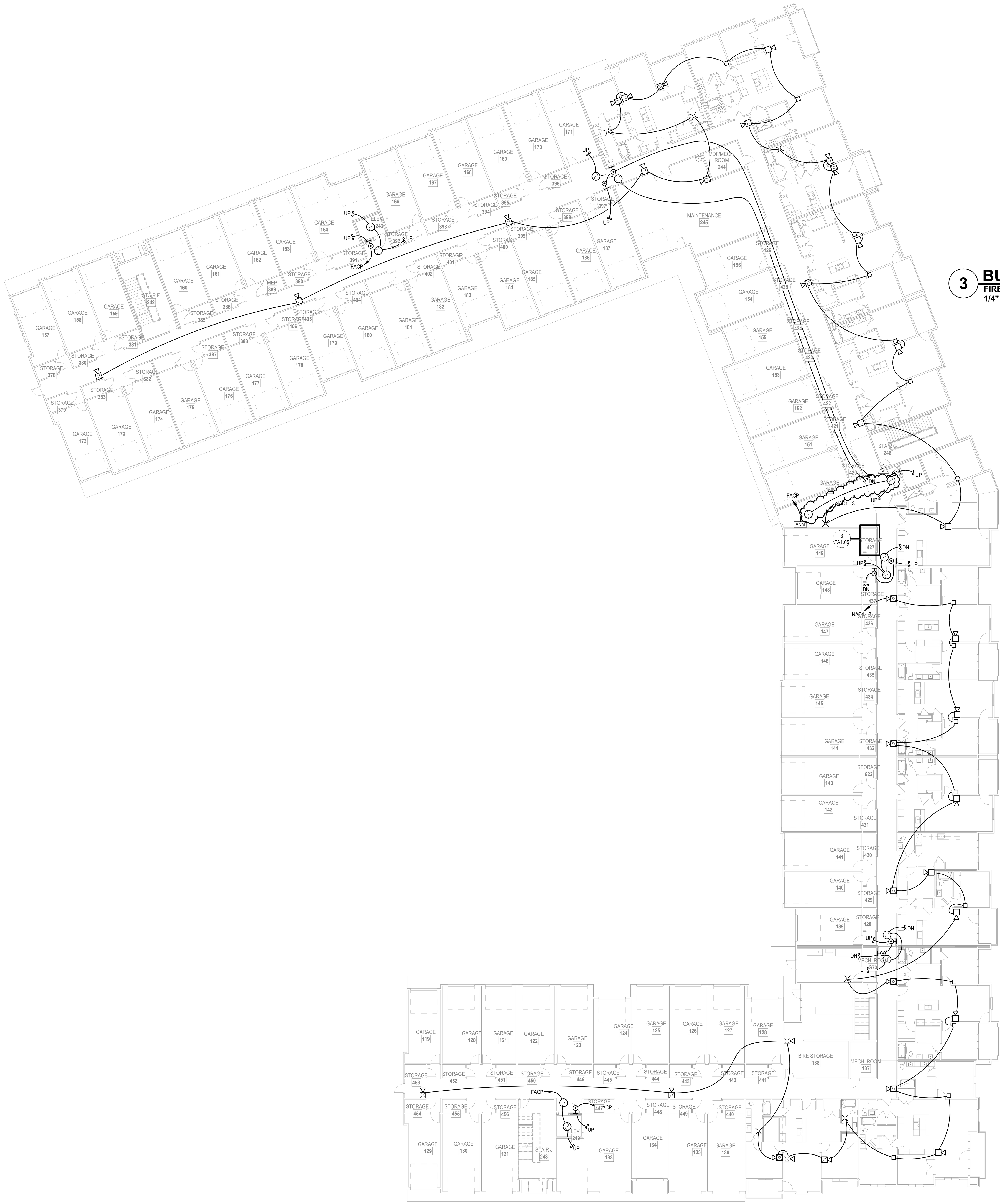
LSA PROJECT NO. 2204061

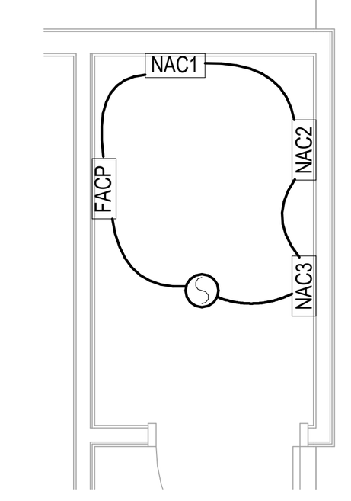
JOB NO. 705921
DATE 03.15.2023
DRAWN BY Author
9/15/2023

SHEET NAME
BUILDING 1 OVERALL FOURTH FLOOR PLAN

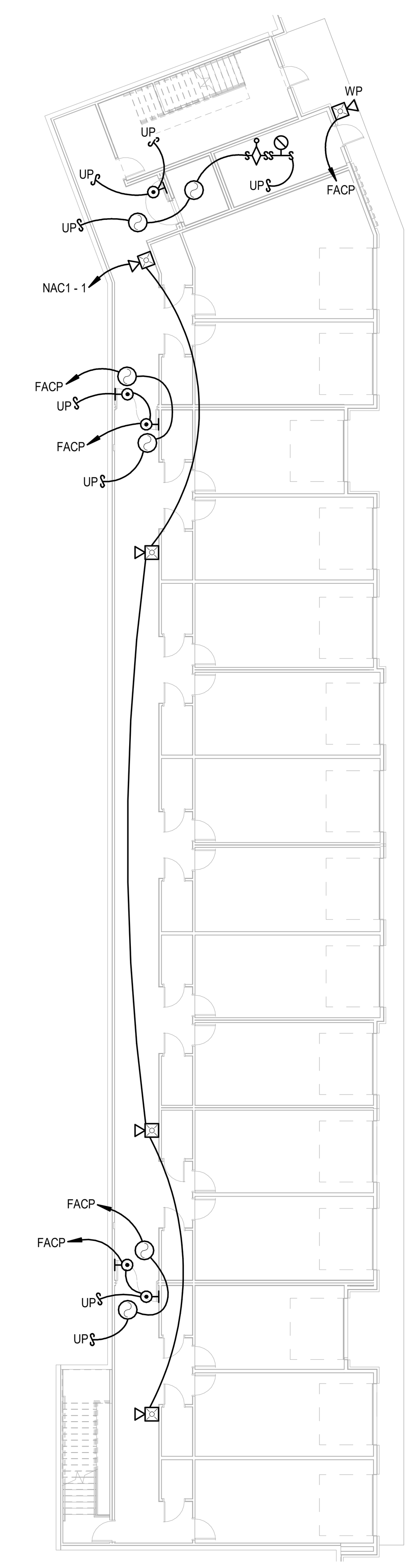
SHEET NO.
FA1.04



1 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"



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

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
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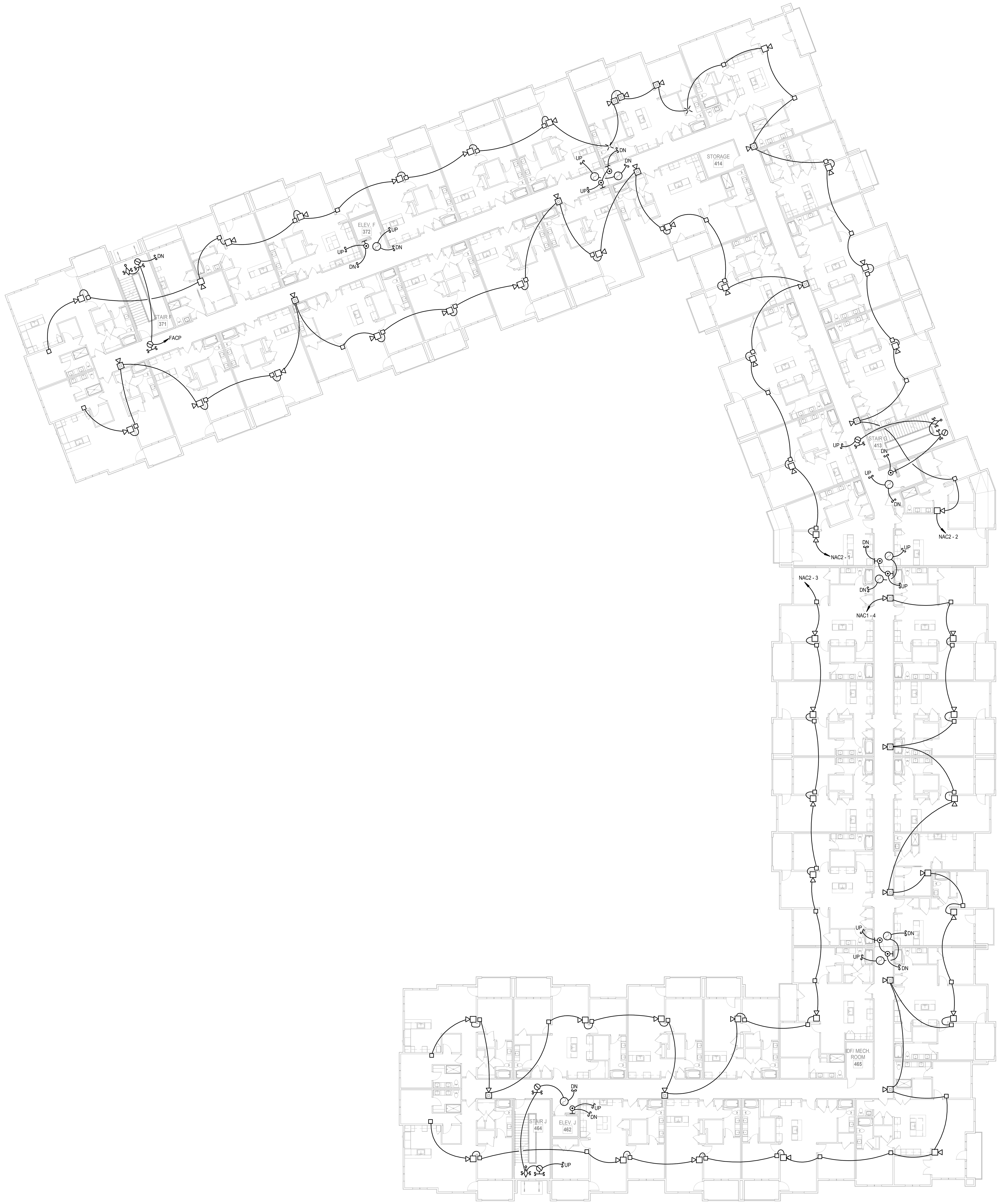
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

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

SHEET NAME
BUILDING 2 OVERALL FIRST FLOOR PLAN

SHEET NO.
FA1.05

ARCH E1 30" x 42"



1 BUILDING 2 - OVERALL 2ND FLOOR PLAN

FIRE ALARM
1/16" = 1'-0"

NORTH

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	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	

NOTES:

1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS. INCLUDING CHAPTER 72.
2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
3. ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. 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.
5. 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.
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.
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STATE OF MISSOURI · RICHARD R. BEARDMORE · PROFESSIONAL ENGINEER

04/02/2024

A NEW RESIDENTIAL COMMUNITY AT:

TRILOGY

800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS
1 04/02/2024 City Response

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LSA PROJECT NO. 2204061

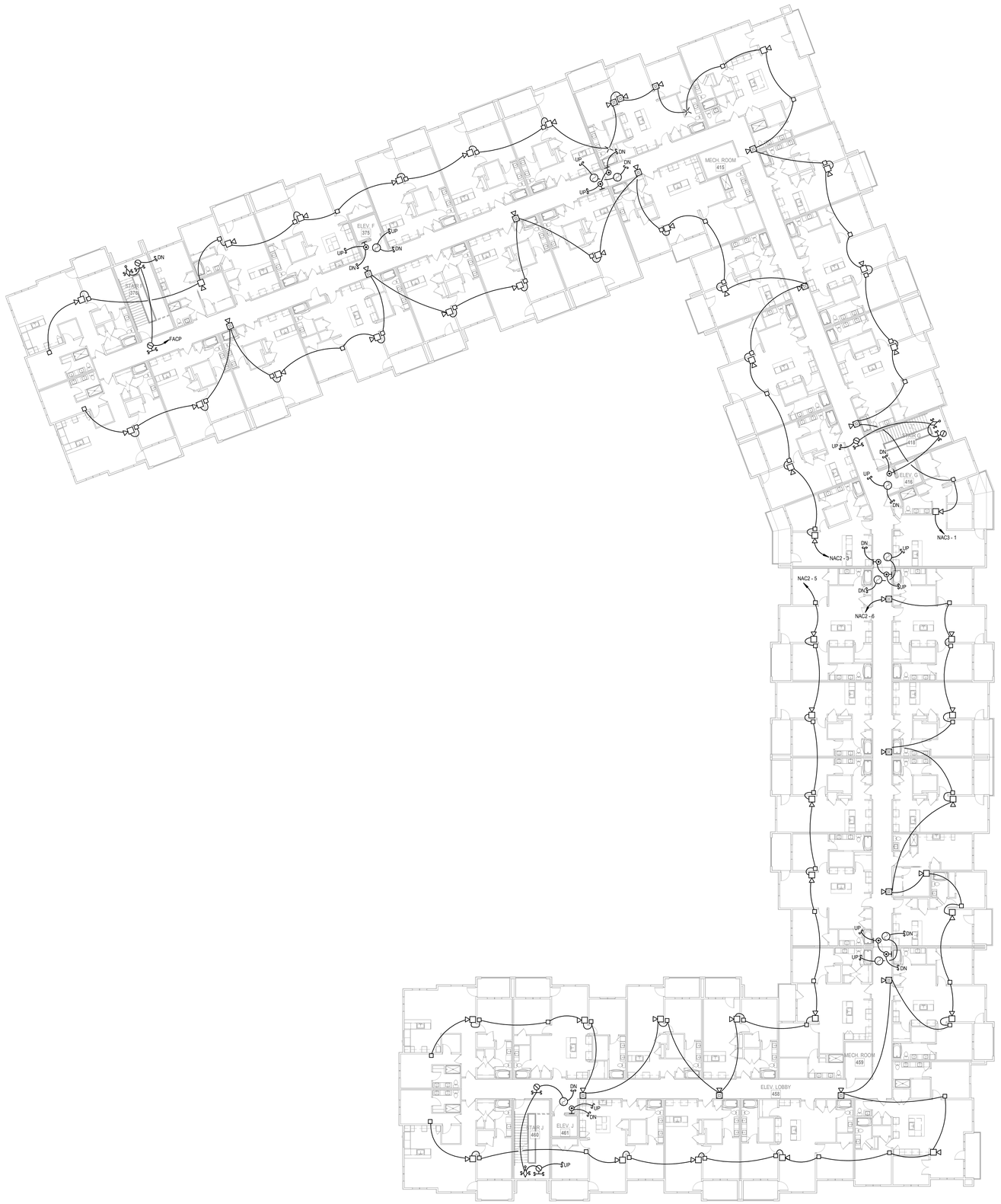
JOB NO. 705921
DATE 03.15.2023
DRAWN BY Author
9/15/2023

SHEET NAME
BUILDING 2 OVERALL SECOND FLOOR PLAN

SHEET NO.
FA1.06

4/2/2024 11:20:36 AM

ARCH E1.30" x 42"



1 **BUILDING 2 - OVERALL 3RD FLOOR PLAN**
FIRE ALARM
1/16" = 1'-0"

NORTH

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
FS	FLOW DETECTOR/SWITCH
TS	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

NOTES:

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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

04/02/2024

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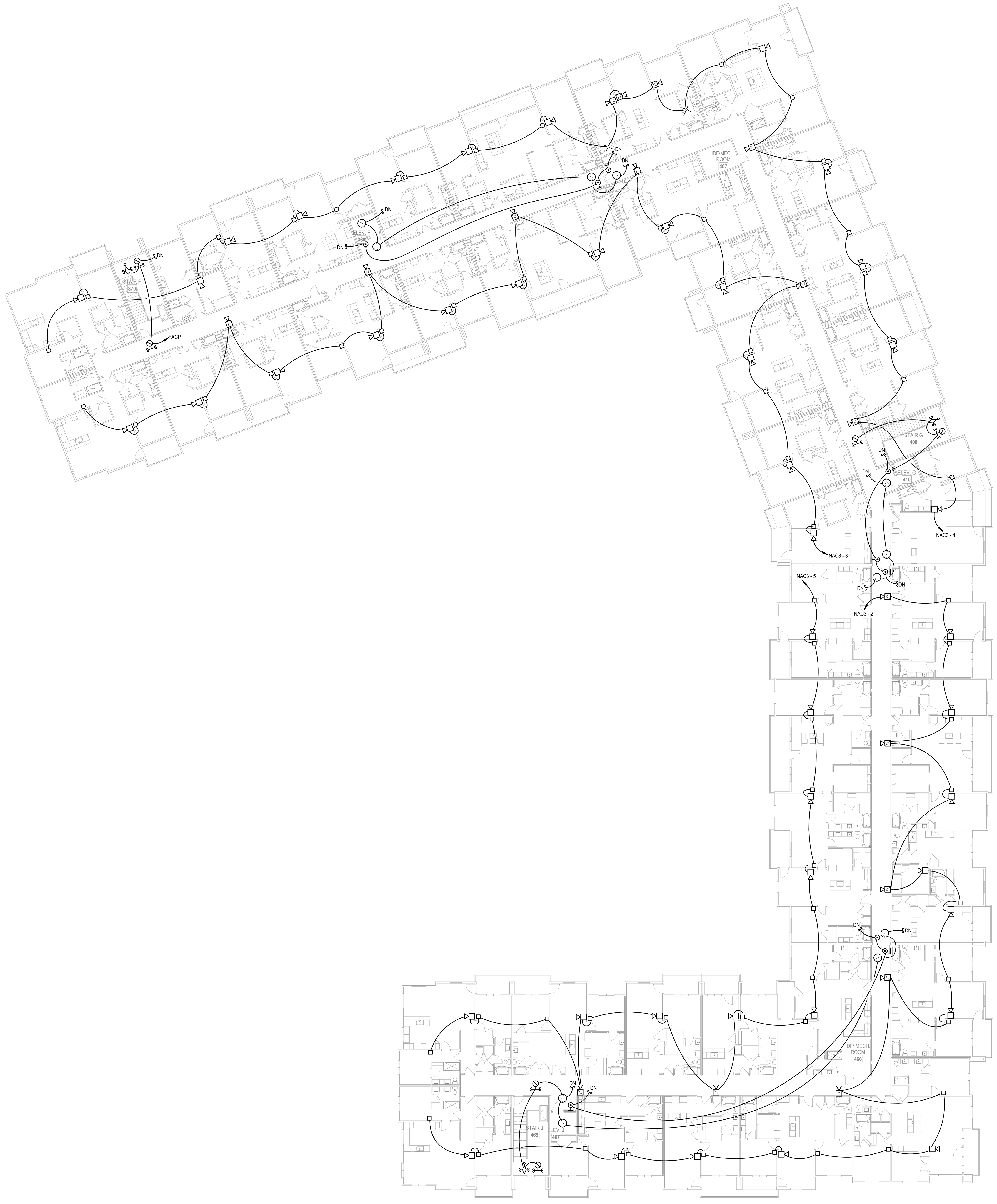
LSA PROJECT NO. 2204061

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

SHEET NAME
BUILDING 2 OVERALL THIRD FLOOR PLAN
SHEET NO.
FA1.07

4/2/2024 11:20:41 AM

ARCH E1 30" x 42"



NORTH

1 BUILDING 2 - OVERALL 4TH FLOOR PLAN

FIRE ALARM

1/16" = 1'-0"

NFPA SYMBOLS LEGEND

Symbol	Description
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	18/2 CABLE SLC LOOP
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP
EOL	END-OF-LINE RESISTOR

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RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER

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DRAWING RELEASE LOG

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1 04/02/2024 City Response

JOB NO. 705921

DATE 03.15.2023

DRAWN BY Author

9/15/2023

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LSA PROJECT NO. 2204061

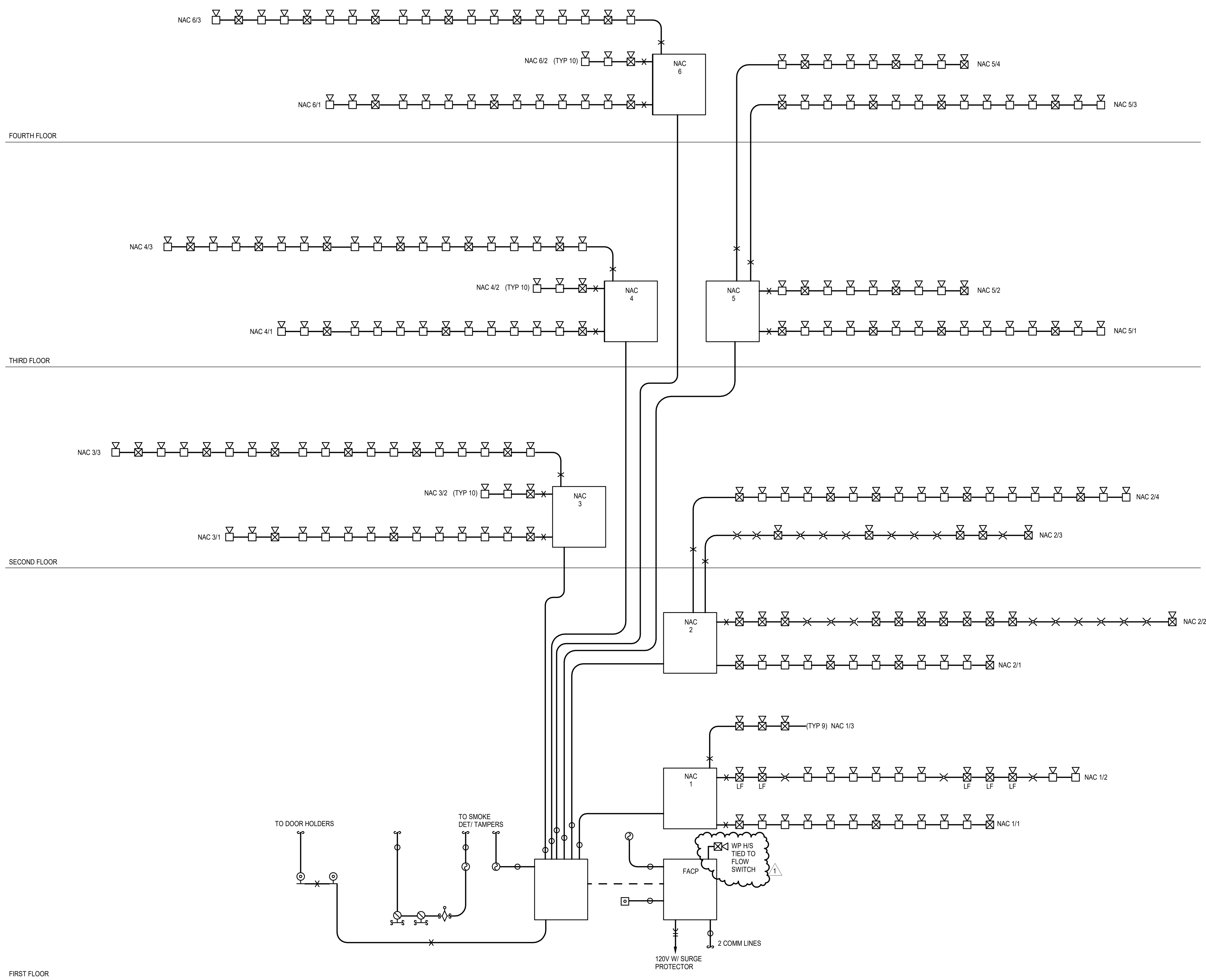
SHEET NAME

BUILDING 2 OVERALL FOURTH FLOOR PLAN

SHEET NO.

FA1.08

4/2/2024 11:20:46 AM



1 BUILDING 1

NOT TO SCALE

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	18/2 CABLE SLC LOOP
	14/2 OR 16/2 AS REQUIRED, CABLE NAC LOOP
EOL	END-OF-LINE RESISTOR

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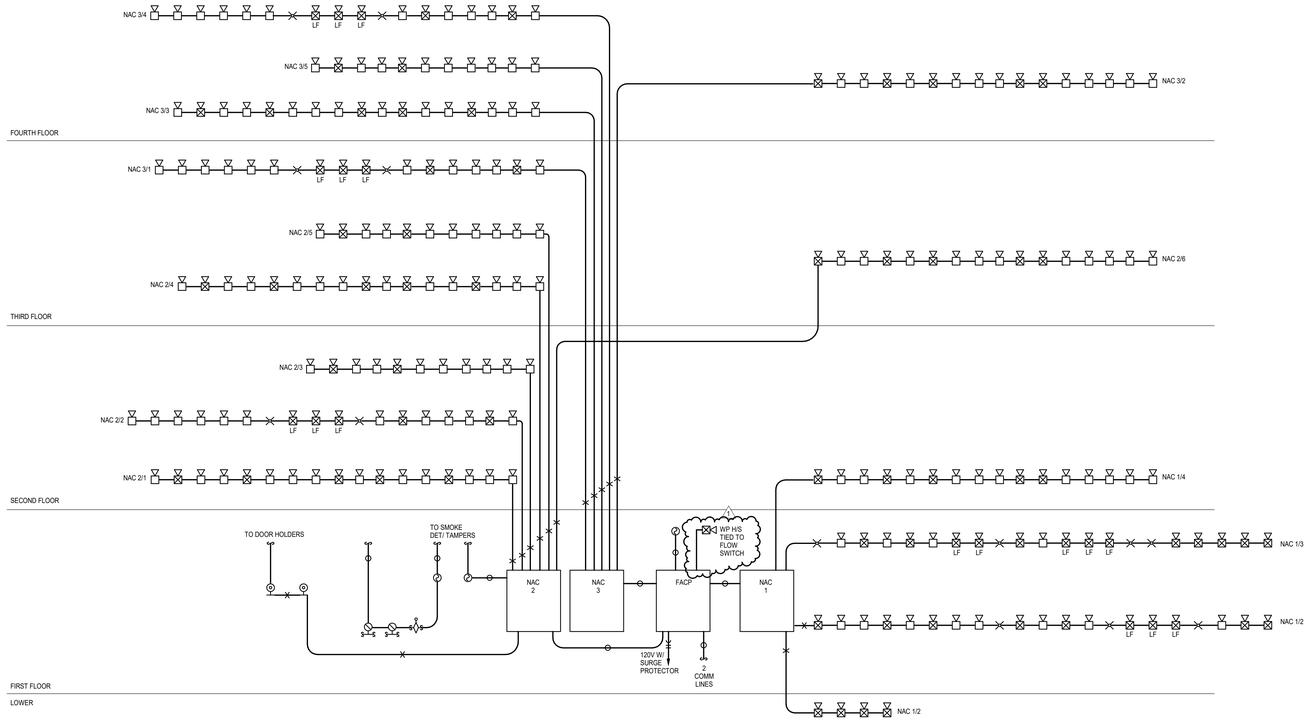
LSA PROJECT NO. 2204061

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

SHEET NAME
BUILDING 1 FIRE ALARM RISER

SHEET NO.
FA2.01



1 **BUILDING 2**
NOT TO SCALE

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
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LSA PROJECT NO. 2204061

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

SHEET NAME
BUILDING 2 FIRE ALARM RISER
SHEET NO.
FA2.02

ARCH E1 30" x 42"

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 1-1			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	3	0.2	0.6
STROBE - 15/75		0.077	0
LF HORN	9	0.08	0.72
LF HORN/STROBE		0.1	0
TOTAL			1.32
LOOP LENGTH	500	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	3.37	20.63	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 1-2			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75		0.2	0
STROBE - 15/75	3	0.077	0.231
LF HORN	8	0.08	0.64
LF HORN/STROBE	5	0.1	0.5
TOTAL			1.371
LOOP LENGTH	450	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	3.15	20.85	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 1-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	9	0.2	1.8
STROBE - 15/75		0.077	0
LF HORN		0.08	0
LF HORN/STROBE		0.1	0
TOTAL			1.8
LOOP LENGTH	470	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	4.31	19.69	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 2-1			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	4	0.2	0.8
STROBE - 15/75		0.077	0
LF HORN	8	0.08	0.64
LF HORN/STROBE		0.1	0
TOTAL			1.44
LOOP LENGTH	400	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	2.94	21.06	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 2-2			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	11	0.2	2.2
STROBE - 15/75	9	0.077	0.693
LF HORN		0.08	0
LF HORN/STROBE		0.1	0
TOTAL			2.893
LOOP LENGTH	490	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	7.23	16.77	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 2-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	5	0.2	1
STROBE - 15/75	9	0.077	0.693
LF HORN		0.08	0
LF HORN/STROBE		0.1	0
TOTAL			1.693
LOOP LENGTH	320	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	2.76	21.24	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 2-4			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	5	0.2	1
STROBE - 15/75		0.077	0
LF HORN	13	0.08	1.04
LF HORN/STROBE		0.1	0
TOTAL			2.04
LOOP LENGTH	650	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	6.76	17.24	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 3-1, 4-1, 6-1			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	3	0.2	0.6
STROBE - 15/75		0.077	0
LF HORN	11	0.08	0.88
LF HORN/STROBE		0.1	0
TOTAL			1.48
LOOP LENGTH	580	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	4.38	19.62	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 3-2, 4-2, 6-2			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	1	0.2	0.2
STROBE - 15/75		0.077	0
LF HORN	10	0.08	0.8
LF HORN/STROBE		0.1	0
TOTAL			1
LOOP LENGTH	450	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	2.30	21.71	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 3-3, 4-3, 6-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	6	0.2	1.2
STROBE - 15/75		0.077	0
LF HORN	11	0.08	0.88
LF HORN/STROBE		0.1	0
TOTAL			2.08
LOOP LENGTH	700	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	7.43	16.57	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 5-1, 5-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	4	0.2	0.8
STROBE - 15/75		0.077	0
LF HORN	11	0.08	0.88
LF HORN/STROBE		0.1	0
TOTAL			1.68
LOOP LENGTH	550	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	4.71	19.29	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 1 - NAC 5-2, 5-4			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	3	0.2	0.6
STROBE - 15/75		0.077	0
LF HORN	6	0.08	0.48
LF HORN/STROBE		0.1	0
TOTAL			1.08
LOOP LENGTH	420	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	2.31	21.69	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 1-1			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	4	0.2	0.8
STROBE - 15/75		0.077	0
LF HORN		0.08	0
LF HORN/STROBE		0.1	0
TOTAL			0.8
LOOP LENGTH	200	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	0.82	23.18	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 1-2			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	7	0.2	1.4
STROBE - 15/75	2	0.077	0.154
LF HORN	7	0.08	0.56
LF HORN/STROBE	3	0.1	0.3
TOTAL			2.414
LOOP LENGTH	640	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	7.88	16.12	16

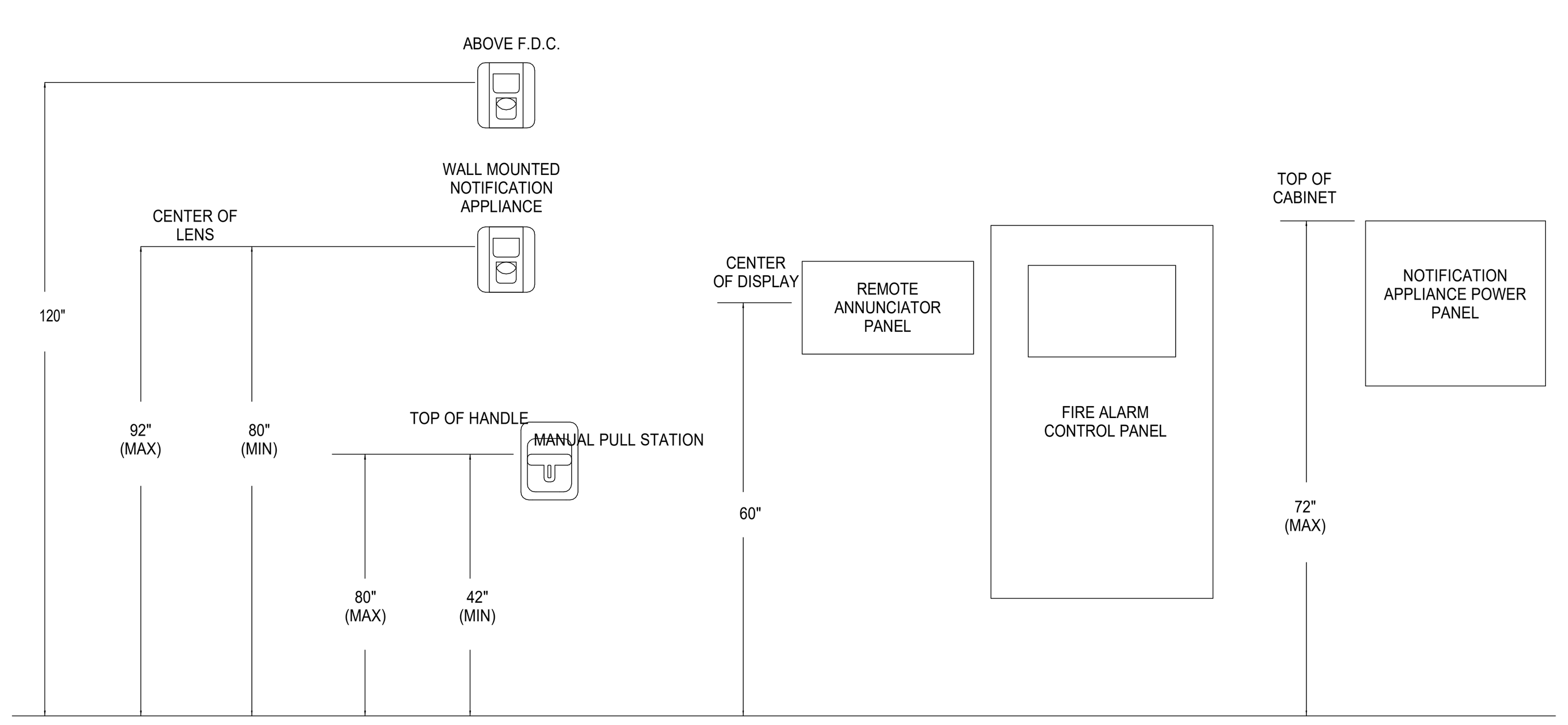
NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 1-3			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	5	0.2	1
STROBE - 15/75	3	0.077	0.231
LF HORN	4	0.08	0.32
LF HORN/STROBE	5	0.1	0.5
TOTAL			2.051
LOOP LENGTH	700	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	7.32	16.68	16

NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 1-4, 2-6, 3-2			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	5	0.2	1
STROBE - 15/75		0.077	0
LF HORN	11	0.08	0.88
LF HORN/STROBE		0.1	0
TOTAL			1.88
LOOP LENGTH	550	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	5.27	18.73	16

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

NAC CIRCUIT VOLTAGE DROP			
Bldg 2 - NAC 2-2, 3-1, 3-4			
APPLIANCE	QTY	AMPS EACH	TOTAL AMPS
HORN/STROBE - 75	2	0.2	0.4
STROBE - 15/75		0.077	0
LF HORN	12	0.08	0.96
LF HORN/STROBE		0.1	0
TOTAL			1.36
LOOP LENGTH	620	WIRE SIZE	#14
NOM. VOLTS	LOSS	FINAL VOLTS	MIN. VOLTS
24	4.30	19.70	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



1 **WALL MOUNTED EQUIPMENT FIRE ALARM INSTALLATION HEIGHTS/DETAILS**
NO SCALE

Jobsite Information: Summit Square 3 Bldg 1

FCPS-24FS6 / 8 Battery Calculation

Entries only to be made in the Yellow cell locations

Regulated Load in Standby

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

Regulated Load in ALARM

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

Battery Amp Hour Calculation

Standby Load Current (Amps)		Required Standby Time (*Typically 24 or 60 Hours*)			
0.065	X	24	=	1.56	AH
Alarm Load Current (Amps)		Required Alarm Time (*Typically 5 or 10 Minutes*)			
25.125	X	10	=	4.19	AH
		Sub Total Standby / Alarm Amp Hours		5.75	AH
		Multiply by the Derating Factor X		1.2	*AH
		Total Ampere Hours Required =		**7**	

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

Jobsite Information: Summit Square 3 Bldg 2

FCPS-24FS6 / 8 Battery Calculation

Entries only to be made in the Yellow cell locations

Regulated Load in Standby

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

Regulated Load in ALARM

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

Battery Amp Hour Calculation

Standby Load Current (Amps)		Required Standby Time (*Typically 24 or 60 Hours*)			
0.065	X	24	=	1.56	AH
Alarm Load Current (Amps)		Required Alarm Time (*Typically 5 or 10 Minutes*)			
18.685	X	10	=	3.11	AH
		Sub Total Standby / Alarm Amp Hours		4.67	AH
		Multiply by the Derating Factor X		1.2	*AH
		Total Ampere Hours Required =		**6**	

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

FIRE ALARM SEQUENCE OF OPERATION MATRIX

SYSTEM OUTPUTS

	SYSTEM INPUTS	A audible alarms activation	B actuate strobes	C transmit alarm to remote station	D display alarm signal	E display supervisory signal	F display trouble signal	G transmit supervisory signal	H transmit trouble signal	I record event at FACP	J activate outside flow bell	K release magnetic door holders	L recall elevator to lowest level	M recall elevator to alternate level	
1	manual pull station	X	X	X	X					X		X	X		1
2	area smoke detector	X	X	X	X					X		X	X	X	2
3	fire sprinkler system water flow	X	X	X	X					X	X	X	X		3
4	fire spinkler system tamper					X		X		X					4
5	fire alarm AC power failure						X		X	X					5
6	fire alarm low battery						X		X	X					6
7	fire alarm open circuit						X		X	X					7
8	fire alarm ground fault						X		X	X					8
9	notification appliance circuit fault						X		X	X					9
10	fire alarm panel clear									X					10
		A	B	C	D	E	F	G	H	I	J	K	L	M	

NFPA SYMBOLS LEGEND	
FCP	FIRE ALARM CONTROL PANEL
	PULL STATION
	SMOKE DETECTOR
	WALL HORN ONLY
W	HORN/STROBE WALL LOW FREQUENCY
WP	OUTSIDE HORN/STROBE FOR WATER FLOW
	STROBE ONLY
	FLOW DETECTOR/SWITCH
	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	

NOTES:

1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS. INCLUDING CHAPTER 72.
2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
3. ALL INSTALLATIONS MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. 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.
5. 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.
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.
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.
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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STATE OF MISSOURI
RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER
04/02/2024

A NEW RESIDENTIAL COMMUNITY AT:
TRILOGY
800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
● 03.15.2023 - PERMIT SUBMITTAL

REVISIONS

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JOB NO. 705921
DATE 03.15.2023
DRAWN BY Author
9/15/2023
SHEET NAME FIRE ALARM DETAILS/SCHEDULES
SHEET NO.
FA2.03

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