ARCH E1.30" x 42"

MECHANICAL SYMBOLS LEGEND

P-1	WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES)	CHS	CHILLED HOT SUPPLY
	WASTE LINE ABOVE EARTH (W.)	CHR	CHILLED HOT RETURN
	WASTE LINE IN EARTH (W.)		UNION
CO	CLEAN OUT		FLEXIBLE PIPE CONNECTION
FFCO	FLUSH FLOOR CLEAN OUT		MANUAL DAMPER
FGCO	FLUSH GRADE CLEAN OUT	BD	BACKDRAFT DAMPER
2" 1 FD	FLOOR DRAIN AND TYPE	AD	AUTOMATIC DAMPER
RD	ROOF DRAIN	FD	FIRE DAMPER
ORD	OVERFLOW ROOF DRAIN	FS	FIRE/SMOKE DAMPER
2" 1 RD	ROOF DRAIN AND TYPE	SD	SMOKE DAMPER
	VENT LINE (V.)	6x6 A 30	GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM
	DOMESTIC COLD WATER SUPPLY (DCW)		VOLUME EXTRACTOR AND TURNING VANES
	DOMESTIC HOT WATER SUPPLY (DHW)		RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN
	DOMESTIC HOT WATER RETURN (DHWR)		SUPPLY AIR DUCT SECTION UP AND DOWN
HB/36"	HOSE BIBB AND MOUNTING HEIGHT		FLEXIBLE DUCT CONNECTION
WH	WALL HYDRANT		ROUND OR RECTANGULAR DUCT
F	FIRE LINE/STANDPIPE		FLEXIBLE DUCT
D	DRAIN LINE		THERMOSTAT
G	NATURAL GAS LINE	R	REFRIGERANT LIQUID/SUCTION
	RISE & DROP IN PIPE WITH CUT-OFF VALVE	AD	ACCESS DOOR
	REDUCER	AFF	ABOVE FINISHED FLOOR
	CHECK VALVE	EA	EXHAUST AIR
	STOP VALVE	OA	OUTSIDE AIR
	BALANCING VALVE/AUTOFLOW VALVE	RA	RETURN AIR
	PLUG VALVE	SA	SUPPLY AIR
	2-WAY CONTROL VALVE OR SOLENOID VALVE	VBS	VENT BELOW SLAB
	3-WAY CONTROL VALVE OR SOLENOID VALVE	VTR	VENT THRU ROOF
	PRESSURE REDUCING VALVE		CONNECT NEW TO EXISTING
	STRAINER		LOCKABLE GUARD
CWS	CHILLED WATER SUPPLY	VFD	VARIABLE FREQUENCY DRIVE
CWR	CHILLED WATER RETURN	H	EUH
HWS	HOT WATER SUPPLY	C	DSS, COOLING ONLY
HWR	HOT WATER RETURN	H C	DSS, HEATING/COOLING

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS.

ELECTRICAL SYMBOLS LEGEND

	CONDUIT CONCEALED IN CEILING OR WALL (1 HOT, 1 NEUTRAL, 1 GROUND UNLESS NOTED OTHERWISE)		LOCKABLE GUARD
	CONDUIT CONCEALED IN FLOOR SLAB		JUNCTION BOX
	EXPOSED CONDUIT	S	SWITCH - SINGLE POLE
	HOMERUN - ARROW INDICATES CKT., LINES INDICATE WIRES	3	SWITCH - 3-WAY
	GROUND WIRE	4	SWITCH - 4-WAY
	GROUNDING ROD	M	SWITCH - MOTION
	SINGLE RECEPTACLE	M	CEILING MOUNTED, MOTION SENSING SWITCH
	DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)	A	LIGHT FIXTURE AND TYPE
U	DUPLEX RECEPTACLE WITH USB OUTLETS		EMERGENCY LIGHT FIXTURE WITH BATTERY PACK
SW	SWITCHED DUPLEX RECEPTACLE		FIXTURE ON LIFE SAFETY BRANCH OF EMERGENCY SYSTEM
	FOURPLEX RECEPTACLE		LIGHT FIXTURE (WALL MOUNTED)
	208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)		EXIT LIGHT (CEILING OR WALL MOUNTED)
	GROUND FAULT INTERRUPTER (GFI) DUPLEX RECEPTACLE		FLUSH PANELBOARD (LIGHT & RECEPTACLES)
	TELE/DATA OUTLET *		SURFACE PANELBOARD (LIGHT & RECEPTACLES)
	PUSHBUTTON		DISTRIBUTION PANEL OR SWITCHBOARD
VFD	VARIABLE FREQUENCY DRIVE	AC	DEVICE LOCATED ABOVE COUNTER
ORT	OVERRIDE TIMER	AFF	ABOVE FINISHED FLOOR
PC	PHOTOCELL	D	DIMMER
	MOTOR	M	MOTION SENSING
	FUSIBLE SWITCH (BUSSMAN SSU)	E	INDICATES EXISTING DEVICE
	DISCONNECT SWITCH (D.S.)	EDF	ELECTRIC DRINKING FOUNTAIN
	COMBINATION MOTOR STARTER (CMS)	NL	NIGHTLIGHT FIXTURE, WIRED HOT
R	RELAY	WP	WEATHERPROOF
	THERMOSTAT	AFCI	ARC FAULT CIRCUIT INTERRUPTER
CO	CO SENSOR		CONNECT NEW TO EXISTING

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS. REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS.

* 4x4 BACKBOX WITH SINGLE GANG PLASTER RING AND A 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

NFPA SYMBOLS LEGEND

	SMOKE DETECTOR
S	SMOKE DETECTOR WITH SOUNDER BASE
ISO	SMOKE DETECTOR WITH ISOLATOR BASE
	HEAT DETECTOR
	DUCT DETECTOR
	ADDRESSABLE MANUAL PULL STATION
	DOOR HOLDER
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
T	TEST STATION
R	MR101C SHUTDOWN RELAY, SPDT W/RED
	A/V (WALL MOUNTED) 24 VDC
	STROBE
	BELL ANNUNCIATOR
	HORN/SPEAKER
FCP	FIRE ALARM CONTROL PANEL
	FIREMAN'S PHONE
ARA	AREA RESCUE CALL STATION
ARA M	AREA RESCUE MASTER STATION
ZAM S	SIGNAL ZAM
ZAM C	CONTROL ZAM
ZAM DET	DETECTOR ZAM
IAM	MONITOR MODULE
IAM R	RELAY IAM
PC	GRAPHIC COMMAND CENTER
FAA	REMOTE FIRE ALARM AUDIO
FSA	REMOTE ANNUNCIATOR WITH AUDIO
ANN	ANNUNCIATOR
FS	FIRE SMOKE DAMPER
NAC	NAC POWER EXTENDER

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

TELECOMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION	REMARKS
D201/A	TELECOMMUNICATIONS OUTLET WITH ROOM AND TYPE IDENTIFIER	1
TV	TELECOMMUNICATIONS OUTLET WALL PHONE PLATE	2
AV	AUDIO/VISUAL OUTLET	3
TV	TELEVISION OUTLET	1
	EMT CONDUIT BY E/C (1 1/4" UNLESS NOTED OTHERWISE)	4
	EMT SLEEVE BY E/C (2" UNLESS NOTED OTHERWISE)	4
AFF	ABOVE FINISHED FLOOR	
T/C	TELECOMMUNICATIONS CONTRACTOR	
E/C	ELECTRICAL CONTRACTOR	
G/C	GENERAL CONTRACTOR	
AC	DEVICE LOCATED ABOVE COUNTER	
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR	
	TELECOMMUNICATIONS CABLING	5
FACP	FIRE ALARM CONTROL PANEL	
SM	SINGLEMODE FIBER	
MM	MULTIMODE FIBER	
WAP	WIRELESS ACCESS POINT	6

TELECOMMUNICATIONS CABLING IDENTIFIER

TELECOM ROOM ——► D201/A ——► OUTLET TYPE

1 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 72171-1-1/4 W/ SINGLE GANG PLASTER RING AND 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AS INDICATED ON DRAWINGS BY E/C.
2 - 2x4 BACKBOX WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
3 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 72171-1-1/4 WITH DOUBLE GANG PLASTER RING BY E/C. CONDUITS AS INDICATED ON PLANS.
4 - E/C TO PROVIDE CONDUIT BUSHING ON CONDUIT PRIOR TO T/C INSTALLING CABLING.
5 - CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.
6 - 2x4 SURFACE MOUNT BACKBOX LOCATED ABOVE ACCESSIBLE CEILING.

AUDIO/VISUAL LEGEND

SYMBOL	DESCRIPTION	REMARKS
AV	AUDIO/VISUAL OUTLET	1
AV	AUDIO/VISUAL FLOORBOX/POKE-THRU (REFER TO ELECTRICAL DRAWINGS)	
TS	TOUCH SCREEN CONTROL PANEL	
	OVERHEAD PROJECTOR	
S	AUDIO/VISUAL SPEAKER	
V	VOLUME CONTROL	
M	MICROPHONE	
	EMT CONDUIT BY E/C (1 1/4" UNLESS NOTED OTHERWISE)	2
	EMT SLEEVE BY E/C (2" UNLESS NOTED OTHERWISE)	2
	DUPLEX RECEPTACLE	
	FOURPLEX RECEPTACLE	
	AUDIO/VISUAL CABLING	3
AFF	ABOVE FINISHED FLOOR	
AV/C	AUDIO/VISUAL CONTRACTOR	
T/C	TELECOMMUNICATION CONTRACTOR	
E/C	ELECTRICAL CONTRACTOR	
G/C	GENERAL CONTRACTOR	
AC	DEVICE LOCATED ABOVE COUNTER	
SM	SINGLEMODE FIBER	
MM	MULTIMODE FIBER	

1 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 72171-1-1/4 WITH DOUBLE GANG PLASTER RING AND 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING BY E/C.
2 - E/C TO PROVIDE CONDUIT BUSHING ON CONDUIT PRIOR TO T/C INSTALLING CABLING.
3 - CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.

SECURITY LEGEND

ACP	ACCESS CONTROL PANEL	
PPS	ACCESS CONTROL PANEL POWER SUPPLY	
CR	HID CARD READER	
REX	REQUEST TO EXIT *	
DP	DOOR POSITION SWITCH *	
EL	ELECTRIC LOCK *	
PS	DOOR POWER SUPPLY *	
PB	PUSH BUTTON	
M	MOTION DETECTOR	
GB	GLASS BREAKER SENSOR	
ADA	ADA PUSH BUTTON *	
DADA	DUAL ADA PUSH BUTTON *	
ADAM	ADA MOTORIZED OPERATOR *	
VIC	VIDEO INTERCOM DOOR STATION	
MVIC	MASTER VIDEO INTERCOM STATION	
BURG	BURGLAR/INTRUSION DETECTION PANEL	
	VIDEO SURVEILLANCE CAMERA	
NVR	NETWORK VIDEO RECORDER	
PTZ	PAN/TILT/ZOOM	

* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING/POWER REQUIREMENTS.

PAGING LEGEND

SYMBOL	DESCRIPTION	REMARKS
PS	PAGING SYSTEM	
P	CEILING PAGING SPEAKER	
	WALL-MOUNTED PAGING SPEAKER	
15W	PAGING HORN	
V	VOLUME CONTROL	

ALL SYMBOLS SHOWN MAY NOT APPEAR ON THIS PROJECT

ARCHITECTURE
LANDSCAPE
ARCHITECTURE
ENERGY SERVICES
NSPJ
ARCHITECTS, Inc.
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
NSPJARCH.COM
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2007018744
PROFESSIONAL ENGINEER
03/15/2023

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/11/2023 CITY COMMENTS
SHEET NAME COVER SHEET
SHEET NO. ME0.01

4/13/2023 9:10:02 PM

ARCH E1.30" x 42"

SITE LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURE	MODEL NUMBER	MOUNTING			FINISH	LAMPS				QUANTITY	REMARKS
			RECESS	SURFACE	WALL		LED	FLOUR.	HID	CODE		
SL 1		SEE OWNER FINISH SCHEDULE			X	BLACK	X				1	1
SL 2	HUBBELL	LMC-30LU-3-K-4			X	BLACK	X				1	5
SL 3	CREE INC.	ARE-EDG-4MB-DA-12-E-UL-BK-525-40K		POLE		BLACK	X				1	2, 3. 4
SL 4	CREE INC.	ARE-EDG-3MP-DA-06-E-UL-BK-700-40K		POLE		BLACK	X				1	3, 4
SL 5	CREE INC.	ARE-EDG-3MP-DA-06-E-UL-BK-700-40K		POLE		BLACK	X				1	2, 3. 4
SL 6	CREE INC.	ARE-EDG-4MB-DA-12-E-UL-BK-525-40K		POLE		BLACK	X				1	3, 4
SL 7	DECO	D315-LED		BOLLARD		BLACK	X				1	

REMARKS:

1 MOUNT AT 8'AFG.
2 PROVIDE WITH (1) HEAD.
3 MOUNT ON 20' POLE ROUND STRAIGHT STEEL, 80 MPH RATED.
4 VERIFY EPA RATING OF POLE WITH MANUFACTURER.
5 MOUNT AT 16' AFG

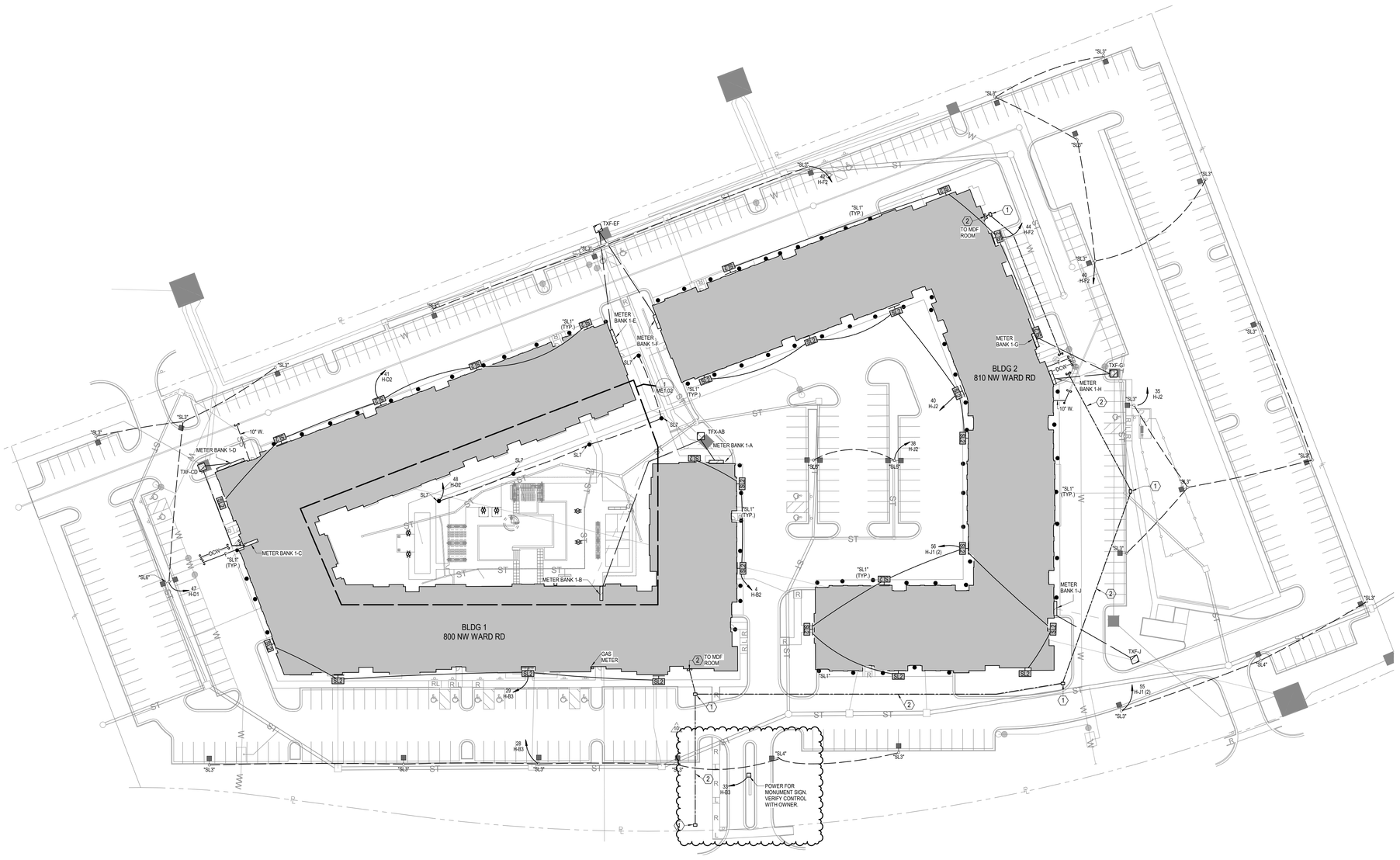
NOTES:

1. SEE CIVIL, ARCHITECTURAL AND LANDSCAPE DRAWING FOR FURTHER INFORMATION AND WORK.
2. NOTIFY UTILITY PROVIDERS PRIOR TO ANY EXCAVATION, TRENCHING OR GRADING TO MARK UTILITIES.
3. PROVIDE ALL UTILITY PROVIDER REQUIREMENTS WITH REGARDS TO INTERFACING WITH THEIR WORK AND INCLUDE ALL ITEMS REQUIRED FOR PROPER INSTALLATION.
4. TRANSFORMER AND PRIMARY LOCATIONS ARE AS PREFERRED AND NEED VERIFICATION WITH THE PROVIDER AS TO FINAL LOCATIONS BASED ON THEIR DESIGN AND CONTRACTOR REQUIREMENTS.
5. ALL SITE LIGHTING CIRCUITS ROUTE THROUGH PHOTOCELL AND HAVE (3) #10 WIRES UNLESS NOTED OTHERWISE.
6. SEE INTERIOR ELECTRICAL FLOOR PLANS FOR "SL1" FIXTURE CIRCUITING.

LEGEND:

(1) 24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS

(2) (3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE.



1 SITE PLAN
MECH./ELEC.
1" = 40'-0"

NORTH

NSPJ ARCHITECTS
ARCHITECTURE LANDSCAPE ARCHITECTURE ENERGY SERVICES
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
NSPJARCH.COM

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RICHARD R. BEARDMORE
NUMBER 2010035744
PROFESSIONAL ENGINEER
6/9/2023

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REVISIONS

2	23 0428	ADD 1/CC 2
3	23 0511	ADDENDUM 2
5	23-06-09	ASI 1
7	23-07-13	ASI 3
8	23-08-11	ASI 4
10	23-09-15	ASI 6

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-2974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (786) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

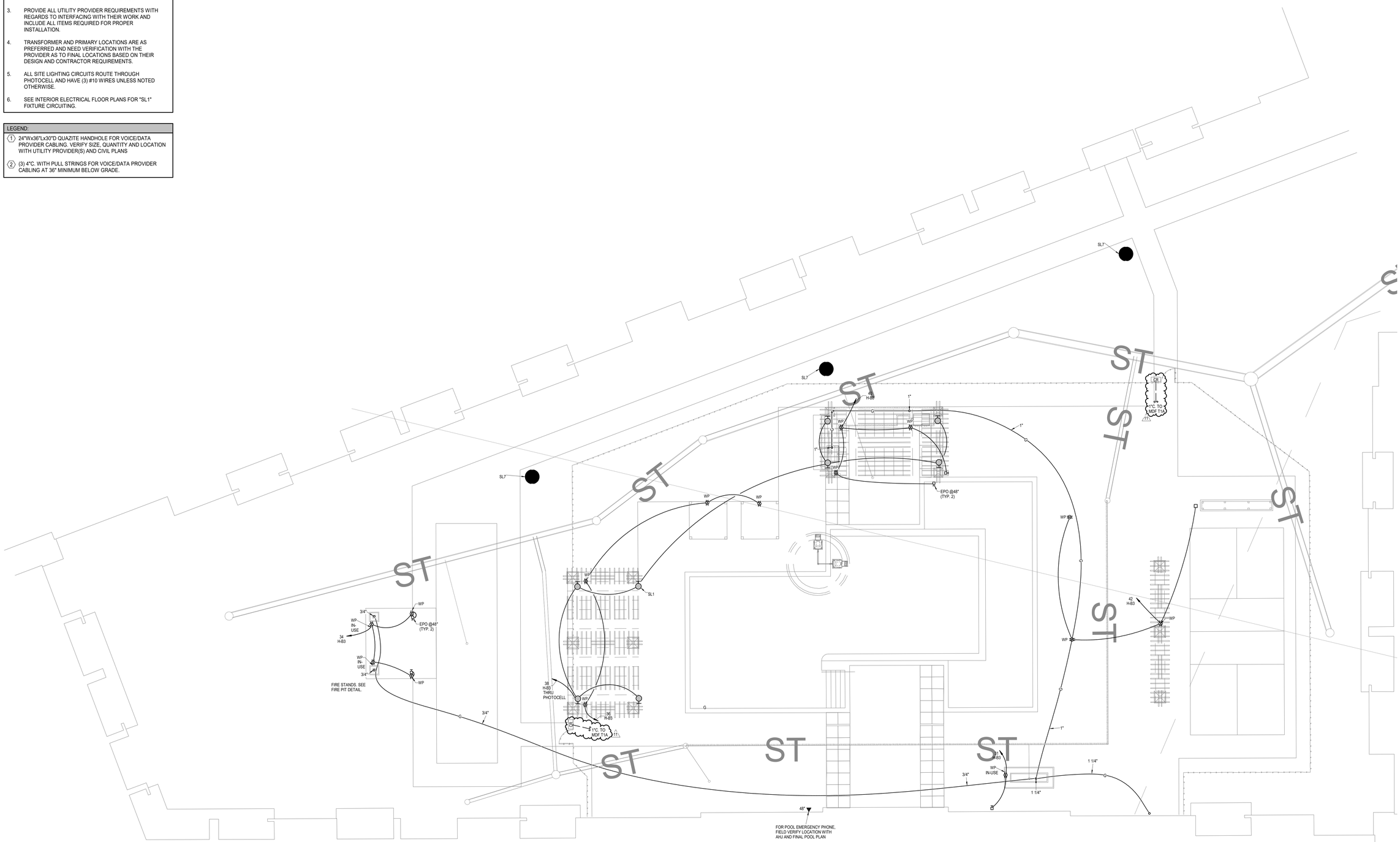
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SITE PLAN
SHEET NO. ME1.01

9/15/2023 9:44:54 AM

ARCH E1.50" x 42"

NOTES:
1. SEE CIVIL, ARCHITECTURAL AND LANDSCAPE DRAWING FOR FURTHER INFORMATION AND WORK.
2. NOTIFY UTILITY PROVIDERS PRIOR TO ANY EXCAVATION, TRENCHING OR GRADING TO MARK UTILITIES.
3. PROVIDE ALL UTILITY PROVIDER REQUIREMENTS WITH REGARDS TO INTERFACING WITH THEIR WORK AND INCLUDE ALL ITEMS REQUIRED FOR PROPER INSTALLATION.
4. TRANSFORMER AND PRIMARY LOCATIONS ARE AS PREFERRED AND NEED VERIFICATION WITH THE PROVIDER AS TO FINAL LOCATIONS BASED ON THEIR DESIGN AND CONTRACTOR REQUIREMENTS.
5. ALL SITE LIGHTING CIRCUITS ROUTE THROUGH PHOTOCELL AND HAVE (3) #10 WIRES UNLESS NOTED OTHERWISE.
6. SEE INTERIOR ELECTRICAL FLOOR PLANS FOR "SL1" FIXTURE CIRCUITING.

LEGEND:
⟨1⟩ 24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
⟨2⟩ (3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE.



NORTH

1 PARTIAL SITE PLAN
MECH./ELEC.
1/8" = 1'-0"

NSPJ ARCHITECTS
ARCHITECTURE LANDSCAPE ARCHITECTURE ENERGY SERVICES
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
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RICHARD R. BEARDMORE
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6/9/2023

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△REVISIONS

2	23-0428	ADD 1/CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4
10	23-09-15	ASI 6
11	23-11-03	ASI #7

LS&A Lastimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
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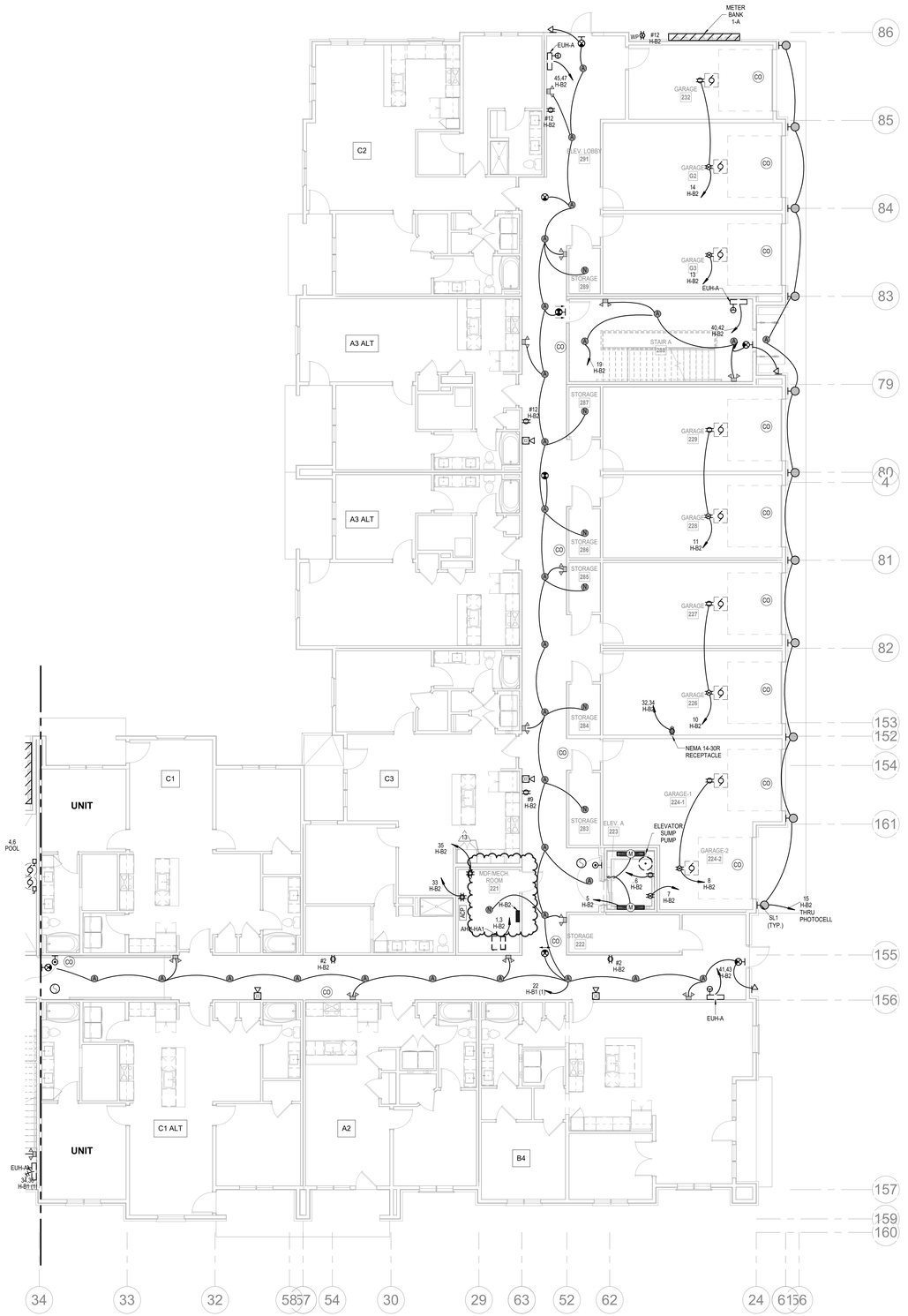
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME PARTIAL SITE PLAN
SHEET NO. ME1.02

11/3/2023 8:51:27 AM

ARCH E1.50" x 42"



NORTH

1 1ST FLOOR - SEGMENT A
ELECTRICAL
1/8" = 1'-0"

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10. ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE ALL ⊗ ⊗ ⊗ FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE ALL ⊗ FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE ALL ⊗ FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE ALL ⊗ FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.
14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:
(1) WP J.B. FOR RADON FAN

ARCHITECTURE
LANDSCAPE ARCHITECTURE
ENERGY SERVICES
NSPJ ARCHITECTS
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
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RICHARD R. BEARDMORE
NUMBER 2010018744
PROFESSIONAL ENGINEER
3/8/2024

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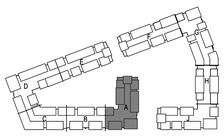

NORTH

KEY PLAN
NO SCALE

REVISIONS			
2	23.0428	ADD 1CC 2	
5	23-06-09	ASI 1	
8	23-08-11	ASI 4	
13	24-03-08	ASI #9	

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023
CITY COMMENTS #3
SHEET NAME SEGMENT A - 1ST FLOOR - ELECTRICAL
SHEET NO. E1.01

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

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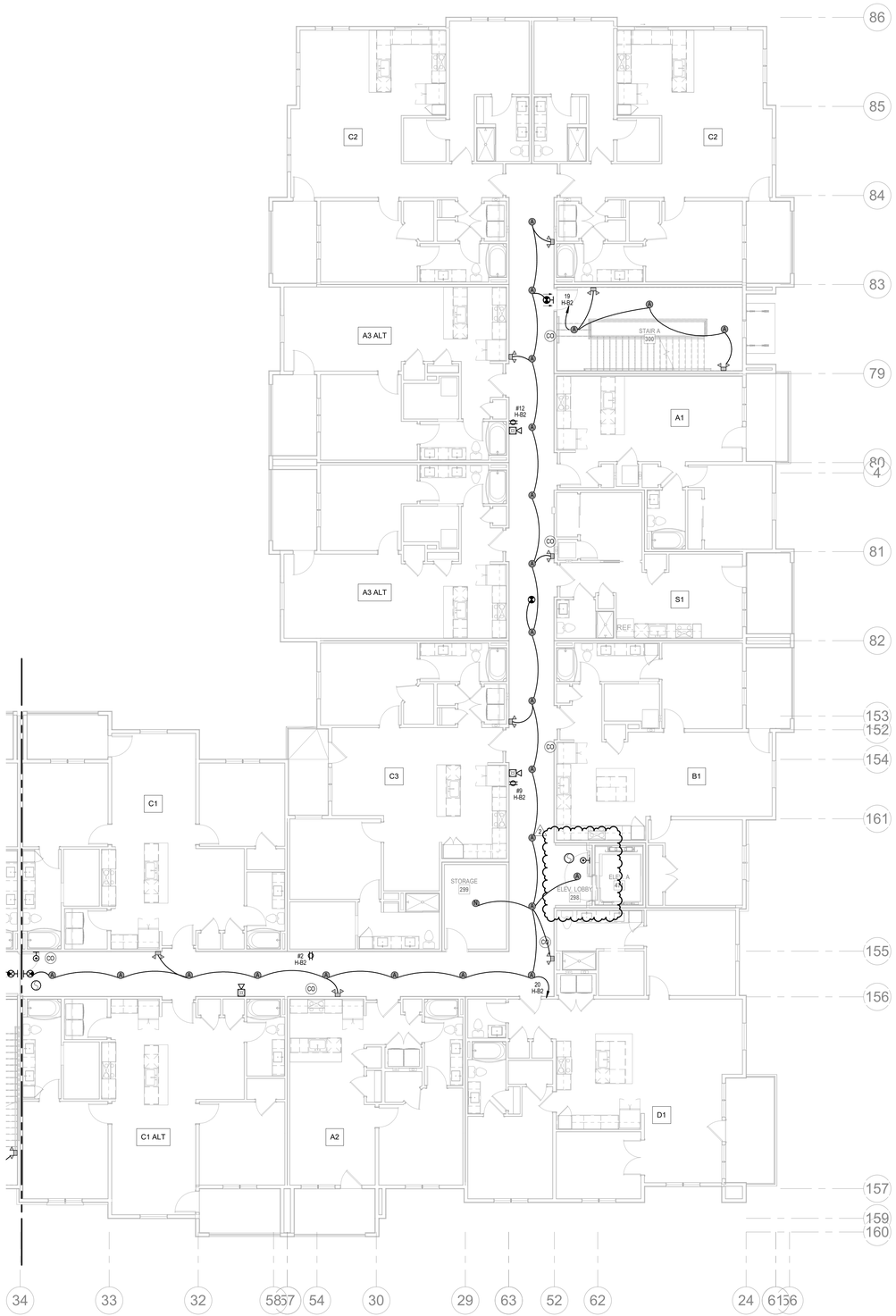
ARCH E1.50" x 42"



1 **2ND FLOOR - SEGMENT A**
ELECTRICAL
1/8" = 1'-0"
NORTH

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
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11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

ARCHITECTURE
LANDSCAPE ARCHITECTURE
ENERGY SERVICES
NSPJ ARCHITECTS, Inc.
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
NSPJARCH.COM
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RICHARD R. BEARDMORE
NUMBER 2010018744
PROFESSIONAL ENGINEER
04/28/2023

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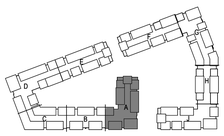
DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL



KEY PLAN
NO SCALE
NORTH

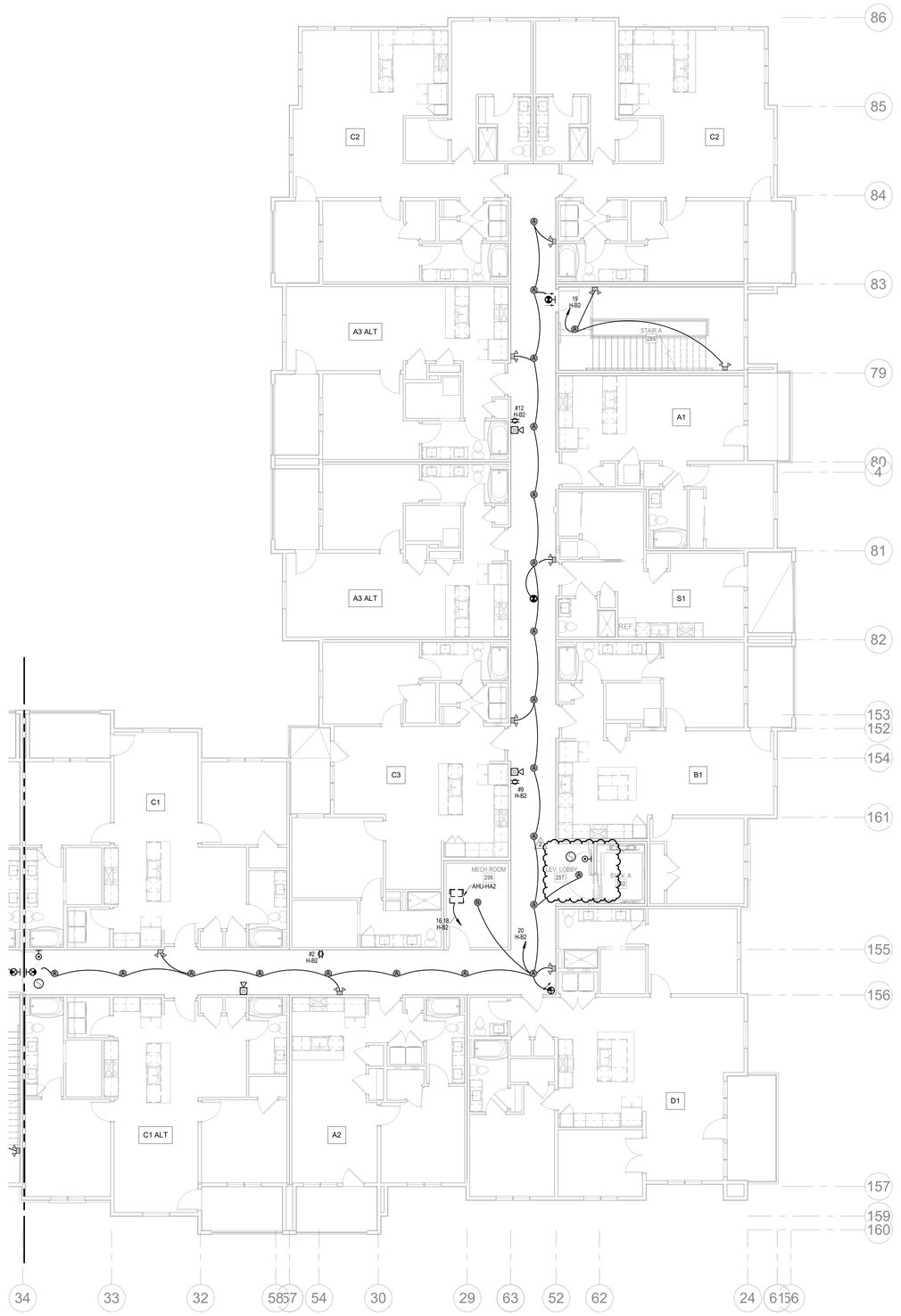
△ REVISIONS
2 23 0428 ADD 1/CC 2

JOB NO. 705921 DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT A - 2ND FLOOR - ELECTRICAL
SHEET NO. E1.02

LS&A Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

5/1/2023 3:48:24 PM

ARCH E1.50" x 42"



1 **3RD FLOOR - SEGMENT A**
ELECTRICAL
1/8" = 1'-0"

NORTH

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10. ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE ALL ⊗ ⊗ ⊗ FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE ALL ⊗ FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE ALL ⊗ FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE ALL ▭ FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES
NSPJ ARCHITECTS, Inc.
3515 W. 75TH ST., SUITE 201
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RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
04/28/2023

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

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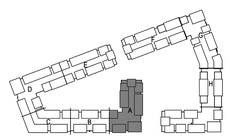
• 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS
2 23 0428 ADD 1/CC 2



NORTH

KEY PLAN
NO SCALE

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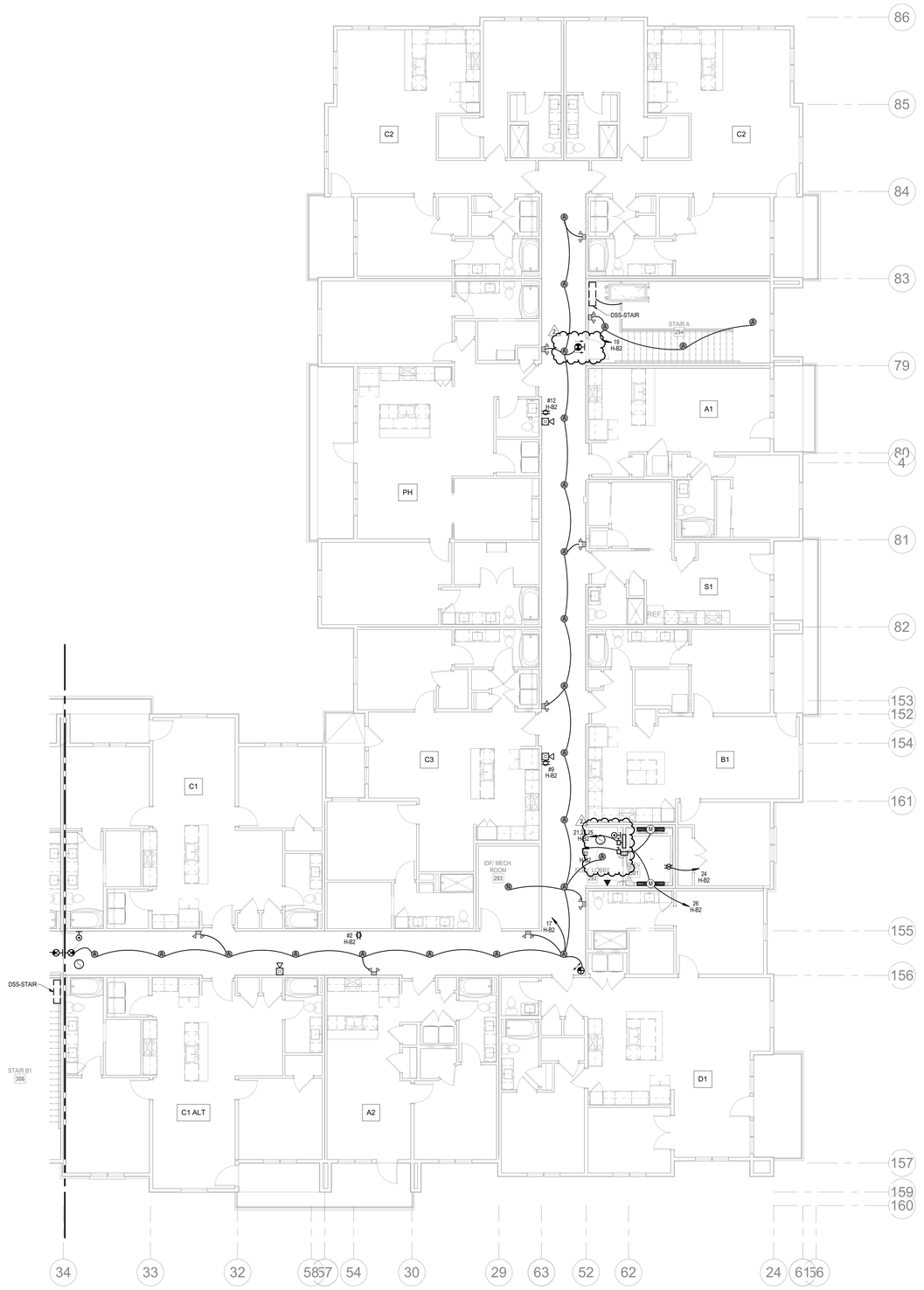
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT A - 3RD FLOOR - ELECTRICAL
SHEET NO. E1.03

5/1/2023 3:48:27 PM

ARCH E1.50" x 42"



1 **4TH FLOOR - SEGMENT A**
ELECTRICAL
1/8" = 1'-0"
NORTH

NOTES:
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3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
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04/28/2023

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DRAWING RELEASE LOG
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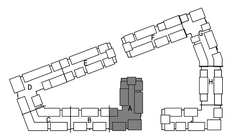

KEY PLAN
NO SCALE

△REVISIONS
2 23 0428 ADD 1/CC 2

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Topeka, Kansas 6614-3974
8626 College Boulevard, Suite 102
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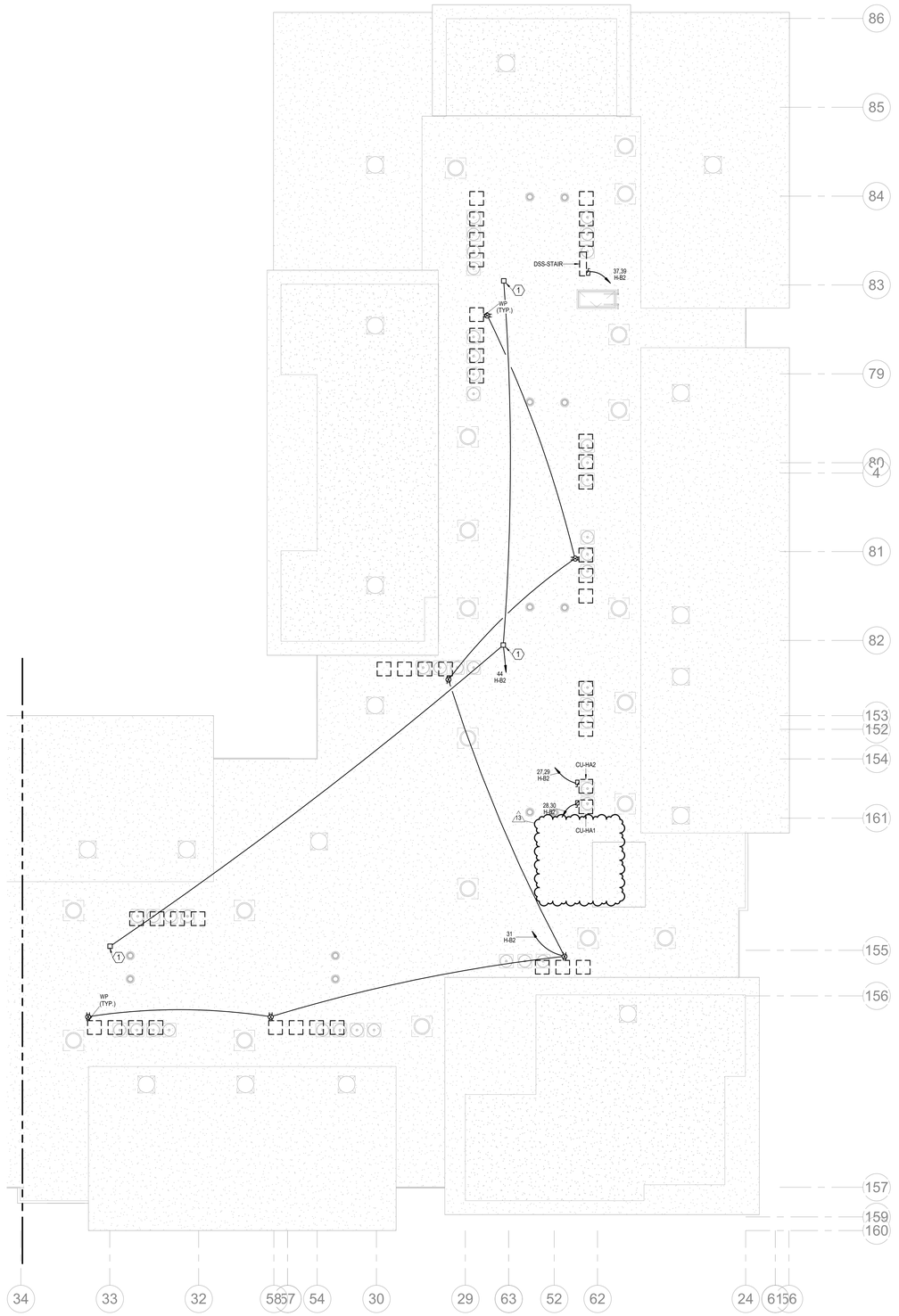
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT A - 4TH FLOOR - ELECTRICAL
SHEET NO. E1.04

5/1/2023 3:48:29 PM

ARCH E1.50" x 42"



NORTH

1 ROOF PLAN - SEGMENT A

ELECTRICAL

1/8" = 1'-0"

NOTES:
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14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:
1 WP J.B. FOR RADON FAN

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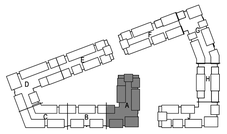

NORTH

KEY PLAN

NO SCALE

△ REVISIONS

2	23.0428	ADD 1 CC 2
7	23-07-13	ASI 3
13	24-03-08	ASI #9

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Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
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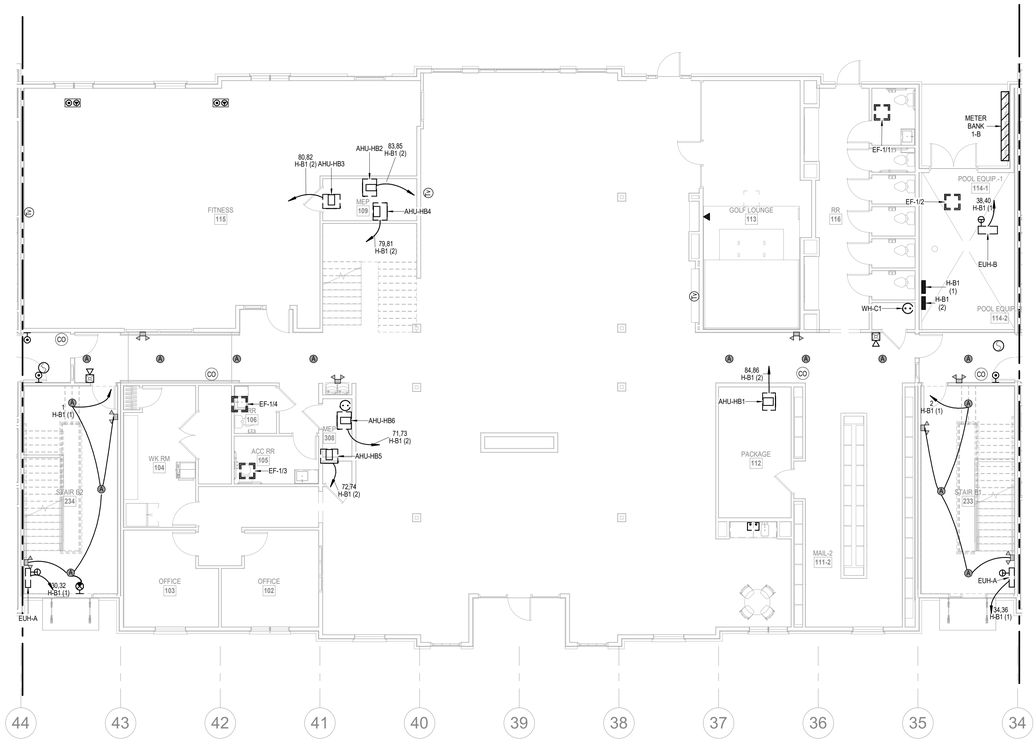
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT A - ROOF PLAN - ELECTRICAL
SHEET NO. E1.05

3/8/2024 4:26:46 PM

ARCH E1.30" x 42"



NORTH

1 1ST FLOOR - SEGMENT B

ELECTRICAL
1/8" = 1'-0"

NORTH

2 2ND FLOOR - SEGMENT B

ELECTRICAL
1/8" = 1'-0"

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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2007018744
PROFESSIONAL ENGINEER
04/28/2023

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DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

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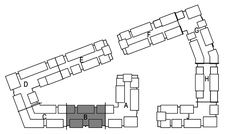

NORTH

KEY PLAN

NO SCALE

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CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

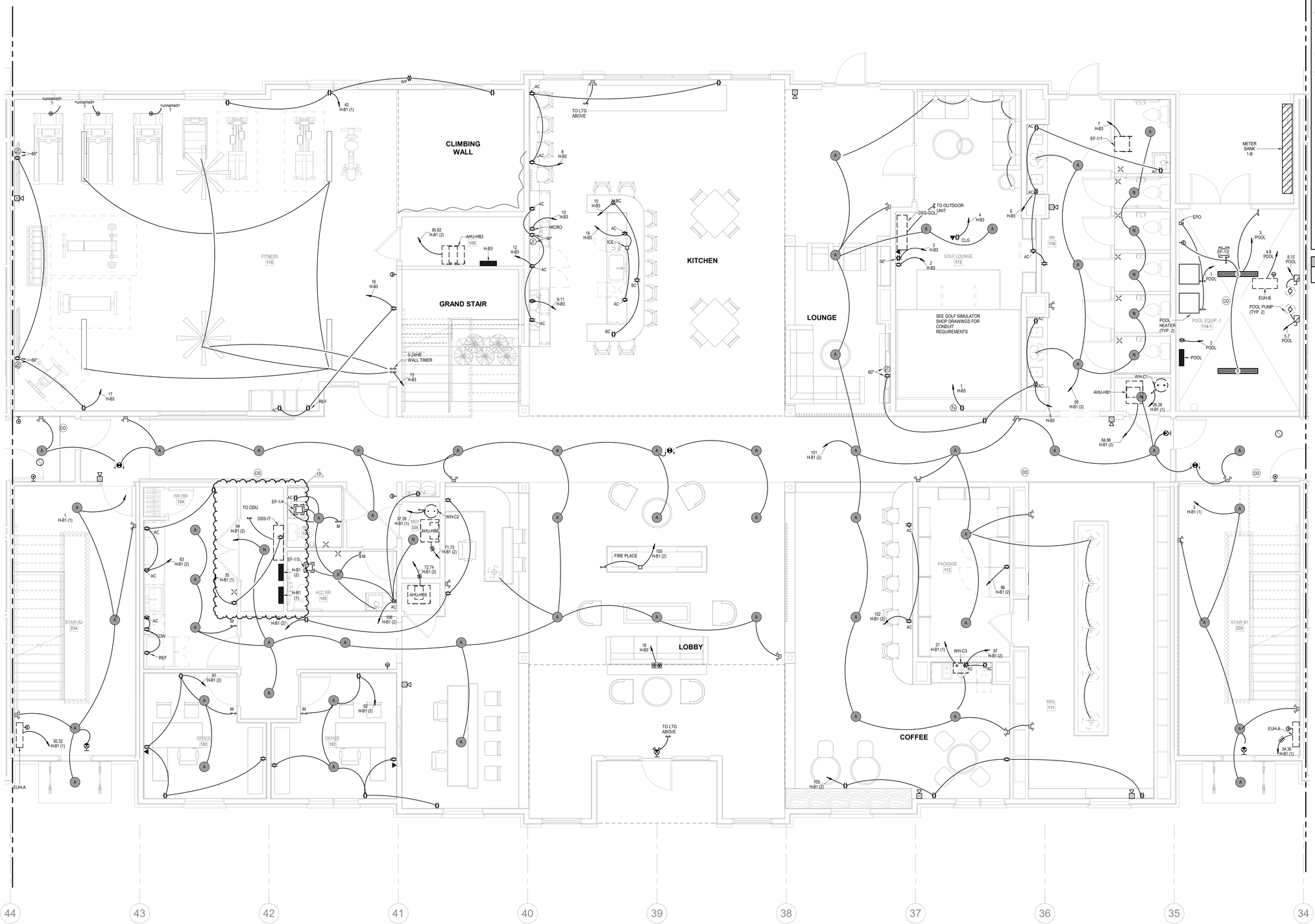
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2

SHEET NAME
SEGMENT B - 1ST & 2ND FLOOR - ELECTRICAL

SHEET NO.
E1.06

5/1/2023 3:48:35 PM

ARCH E1.30" x 42"



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LEGEND:

(1) WP J.B. FOR RADON FAN

SEE SHEET ID.400 FOR LIGHITNG TYPES. CONFIRM MOUNTING AND LOCATIONS OF LIGHT FIXTURES WITH ID AND OWNER.

NORTH

2 1ST FLOOR - SEGMENT B

ELECTRICAL
1/4" = 1'-0"

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
ENERGY SERVICES
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F. 913.831.1563
NSPJARCH.COM
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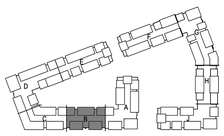
RICHARD R. BEARDMORE
NUMBER PE-2010018911
PROFESSIONAL ENGINEER
3/8/2024

A NEW RESIDENTIAL COMMUNITY AT:

TRILOGY

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL



NORTH

KEY PLAN
NO SCALE

△REVISIONS

3	23.0511	ADDENDUM 2
4	23-05-17	CC3
5	23-06-09	ASI 1
8	23-08-11	ASI 4
10	23-09-15	ASI 6
11	23-11-03	ASI #7
13	24-03-08	ASI #9

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LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT B - 1ST FLOOR - ELECTRICAL
SHEET NO. E1.06.1

3/8/2024 4:26:50 PM

ARCH E1.50" x 42"

NOTES:

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① WP J.B. FOR RADON FAN

SEE SHEET ID.400 FOR LIGHITNG TYPES. CONFIRM MOUNTING AND LOCATIONS OF LIGHT FIXTURES WITH ID AND OWNER.

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NSPJ ARCHITECTS, Inc.
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PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
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PROFESSIONAL ENGINEER

3/8/2024

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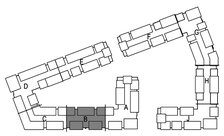

KEY PLAN
NO SCALE

NORTH

REVISIONS

3	23.0511	ADDENDUM 2
4	23-05-17	CC3
5	23-06-09	ASI 1
10	23-09-15	ASI 6
12	24-01-19	ASI #8
13	24-03-08	ASI #9

NORTH

1 2ND FLOOR - SEGMENT B

ELECTRICAL
1/4" = 1'-0"

JOB NO.	DATE
705921	03.15.2023
DRAWN BY	
LSA CAD	
5/17/2023	
CITY COMMENTS #3	
SHEET NAME	
SEGMENT B - 2ND FLOOR - ELECTRICAL	
SHEET NO.	
E1.06.2	

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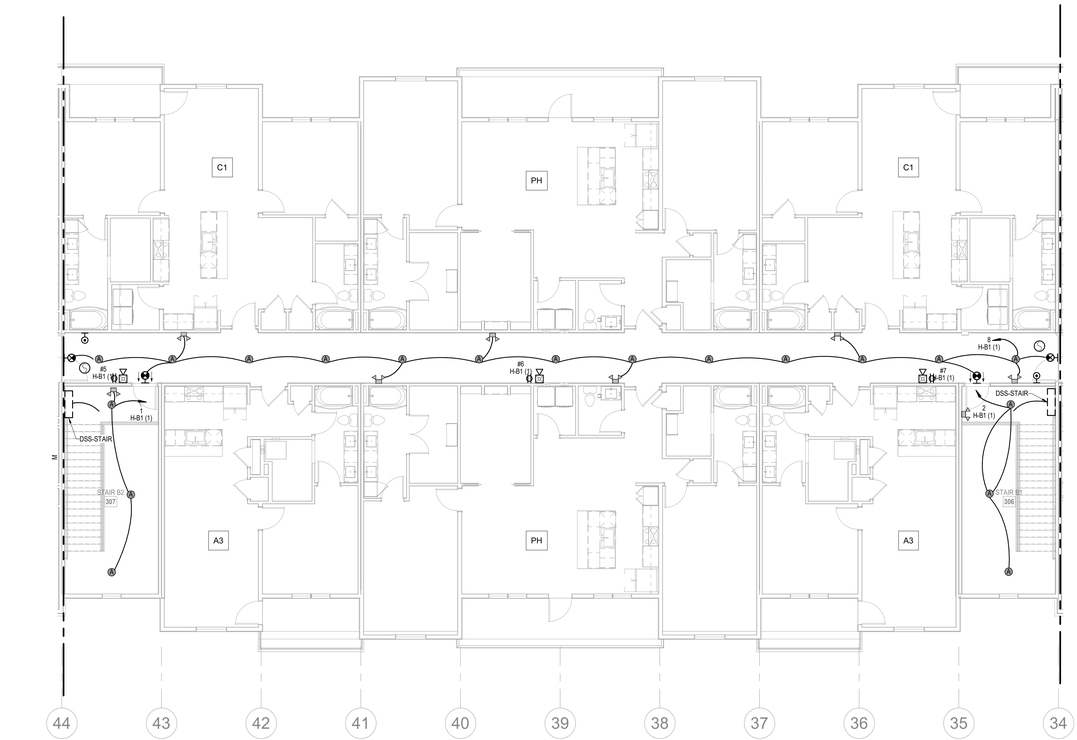
3/8/2024 4:26:52 PM

ARCH E1.30" x 42"

NORTH

1 3RD FLOOR - SEGMENT B

ELECTRICAL
1/8" = 1'-0"



NORTH

2 4TH FLOOR - SEGMENT B

ELECTRICAL
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NOTES:

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2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10. ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE
    ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE
    ALL ⊗ ⊗ ⊗ FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE
    ALL ⊗ FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE
    ALL ⊗ FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE
    ALL ⊗ FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

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NSPJ
ARCHITECTS, Inc.
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NUMBER 2010018744
PROFESSIONAL ENGINEER
03/15/2023

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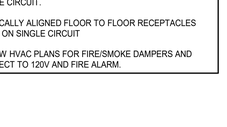
△REVISIONS



NORTH

KEY PLAN

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/11/2023 CITY COMMENTS
SHEET NAME SEGMENT B - 3RD & 4TH FLOOR - ELECTRICAL
SHEET NO. E1.07

4/13/2023 9:06:19 PM

ARCH E1.30" x 42"

NOTES:
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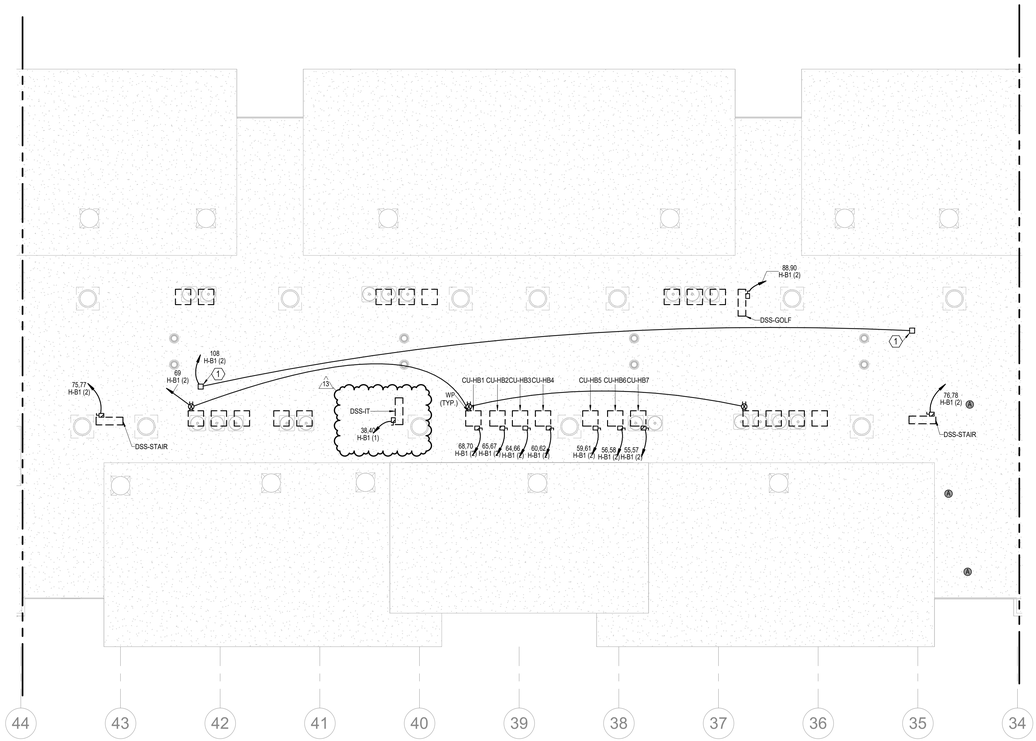
14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:
(1) WP J.B. FOR RADON FAN



NORTH

1 ROOF PLAN - SEGMENT B

ELECTRICAL

1/8" = 1'-0"

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3/8/2024

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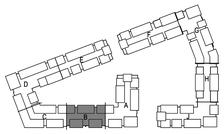

NORTH

KEY PLAN
NO SCALE

△REVISIONS

2	23 0428	ADD 1CC 2
5	23-06-09	ASI 1
7	23-07-13	ASI 3
13	24-03-08	ASI #9

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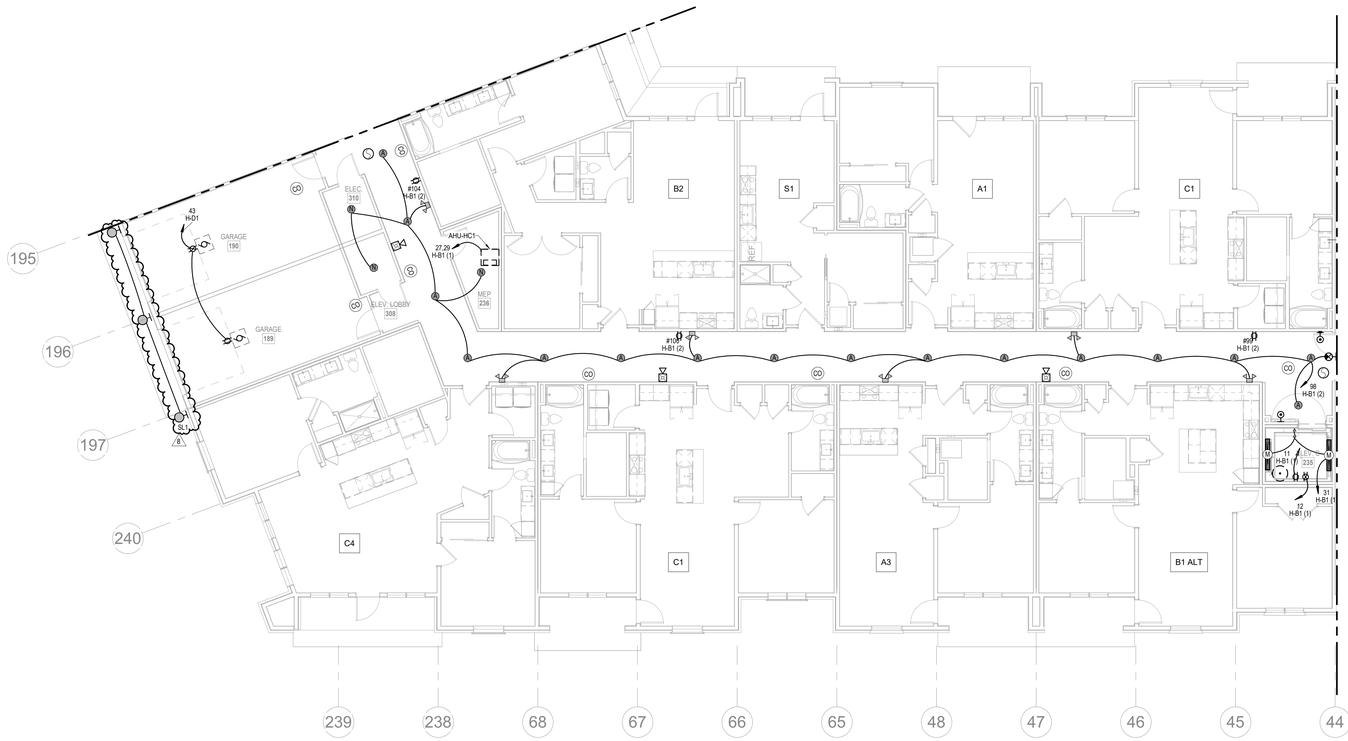
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT B - ROOF PLAN - ELECTRICAL
SHEET NO. E1.08

3/8/2024 4:26:54 PM

ARCH E1.30" x 42"



NORTH

1 1ST FLOOR - SEGMENT C

ELECTRICAL

1/8" = 1'-0"

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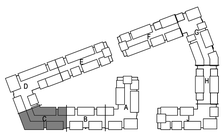

NORTH

KEY PLAN

NO SCALE

REVISIONS

2	23.0428	ADD 1CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4

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CONSULTING ENGINEERS
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Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT C - 1ST FLOOR - ELECTRICAL
SHEET NO. E1.09

8/10/2023 2:18:30 PM

ARCH E1.50" x 42"

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NORTH

1 2ND FLOOR - SEGMENT C

ELECTRICAL

1/8" = 1'-0"

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NUMBER
PROFESSIONAL ENGINEER

04/28/2023

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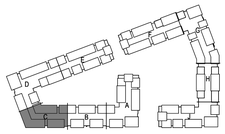

NORTH

KEY PLAN

NO SCALE

△REVISIONS
2 23 0428 ADD 1/CC 2

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3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT C - 2ND FLOOR - ELECTRICAL
SHEET NO. E1.10

5/1/2023 3:48:42 PM

ARCH E1.30" x 42"

NOTES:
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NORTH

1 3RD FLOOR - SEGMENT C

ELECTRICAL

1/8" = 1'-0"

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NUMBER
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04/28/2023

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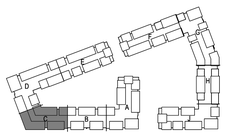
- 03.15.2023 - PERMIT SUBMITTAL



NORTH

KEY PLAN

NO SCALE

△ REVISIONS
2 23 0428 ADD 1/CC 2

LS&A
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3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
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Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT C - 3RD FLOOR - ELECTRICAL
SHEET NO. E1.11

5/1/2023 3:48:43 PM

ARCH E1.30" x 42"

NOTES:
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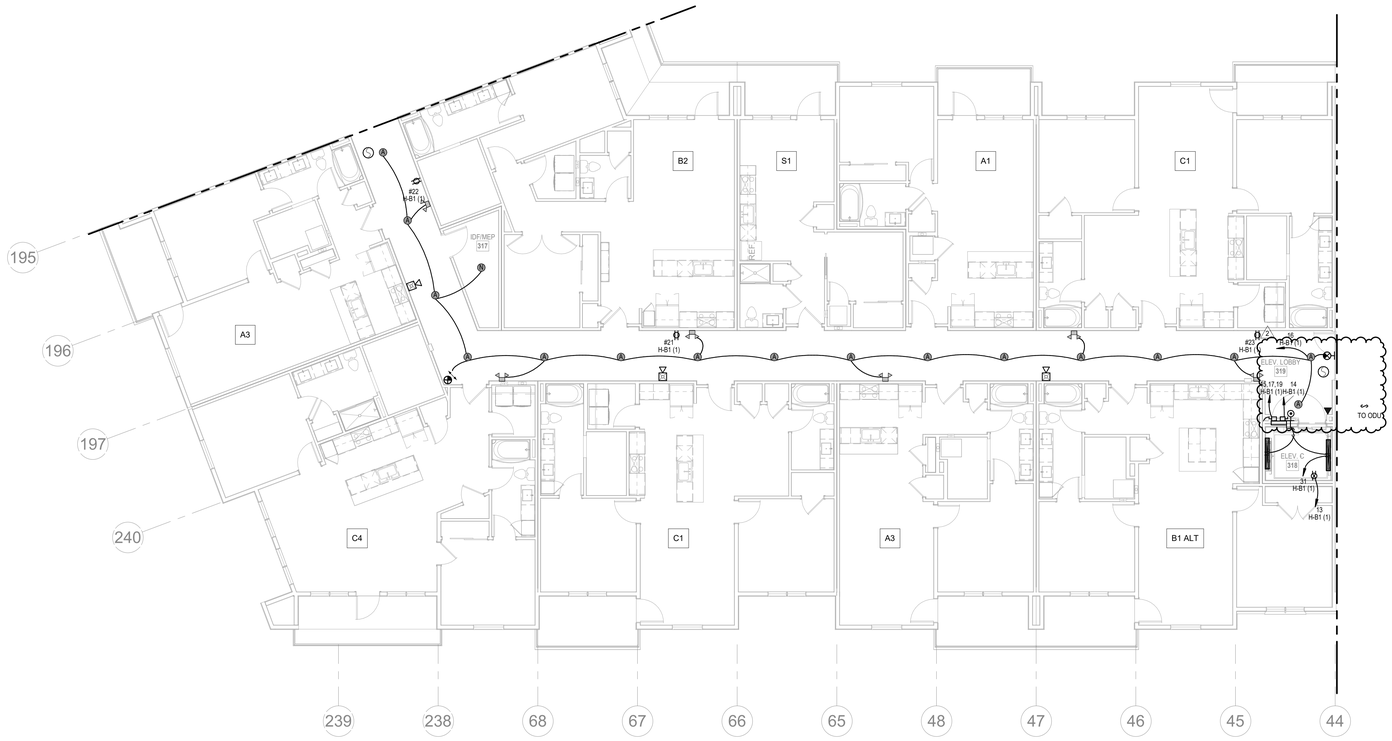

NORTH

1 4TH FLOOR - SEGMENT C
ELECTRICAL
1/8" = 1'-0"

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04/28/2023

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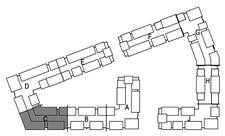
2 23.0428 ADD 1/CC 2



NORTH

KEY PLAN
NO SCALE

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3639 SW Summerfield Drive, Suite A
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8625 College Boulevard, Suite 102
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Telephone: (785) 233-3232
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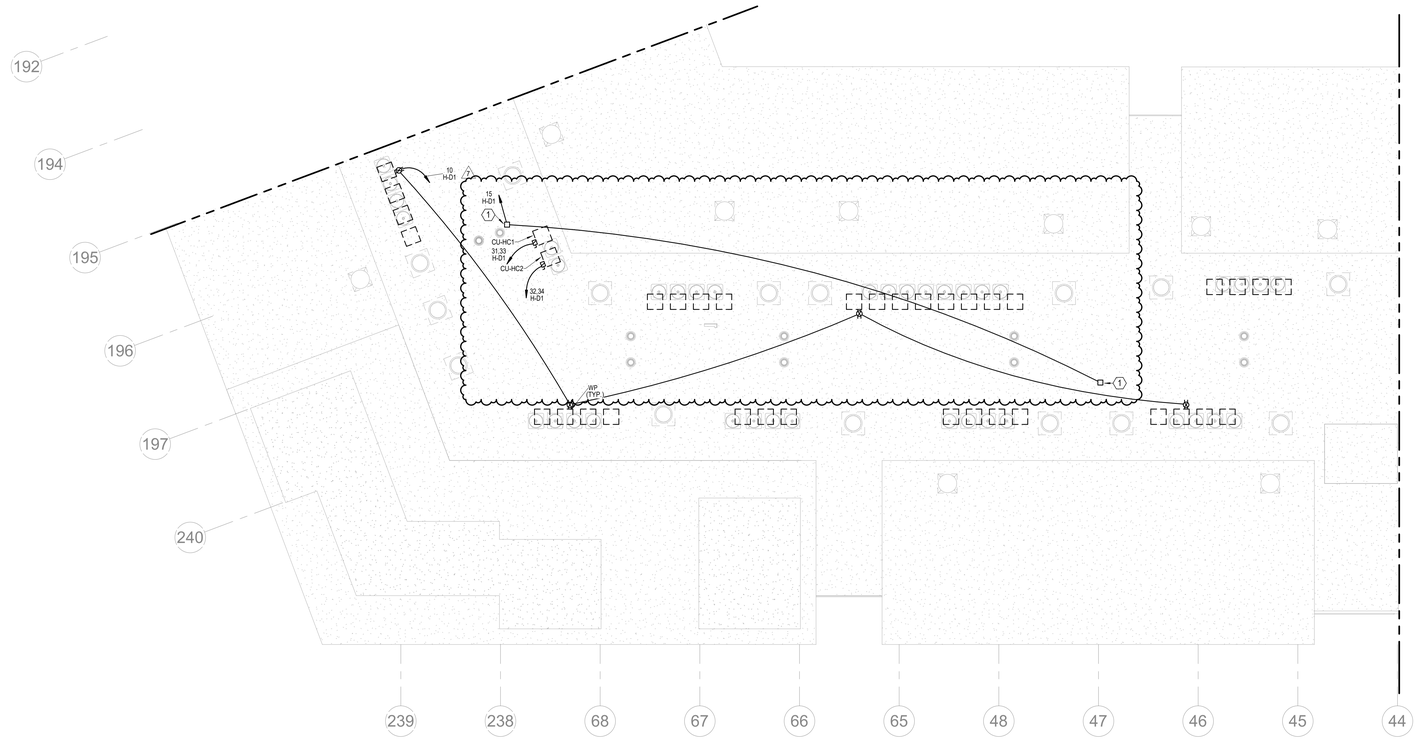
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME
SEGMENT C - 4TH FLOOR - ELECTRICAL
SHEET NO.
E1.12

5/1/2023 3:48:46 PM

ARCH E1.30" x 42"



NORTH

1 ROOF PLAN - SEGMENT C

ELECTRICAL
1/8" = 1'-0"

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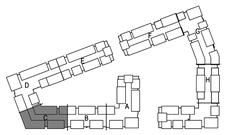

NORTH

KEY PLAN

NO SCALE

△REVISIONS

2	23.0428	ADD 1:CC 2
7	23-07-13	ASI 3

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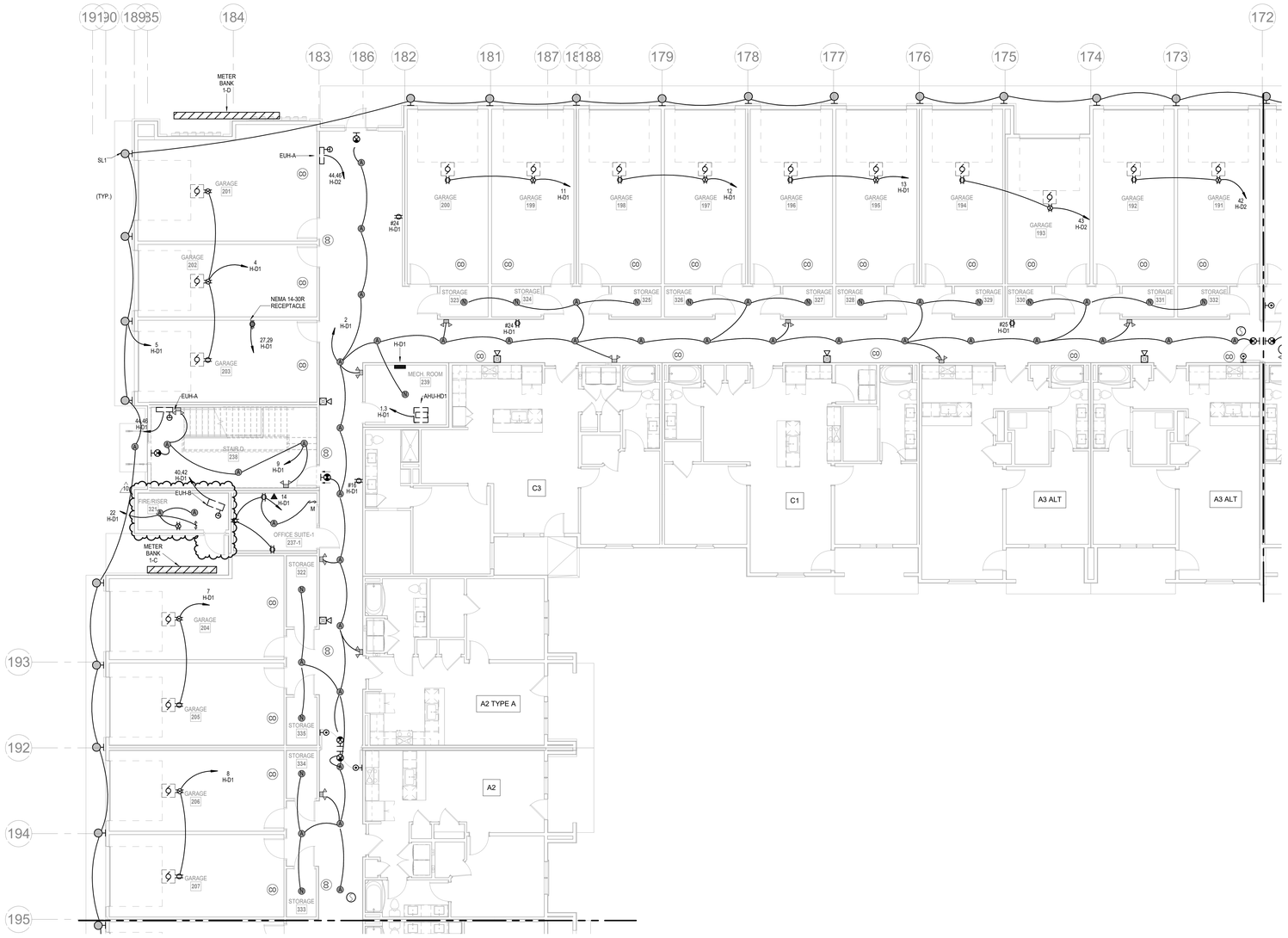
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT C - ROOF PLAN - ELECTRICAL
SHEET NO. E1.13

7/13/2023 4:27:58 PM

ARCH E1.30" x 42"



1 **1ST FLOOR - SEGMENT D**
ELECTRICAL
1/8" = 1'-0"

NORTH

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10. ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE ALL ⊗ ⊗ ⊗ FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE ALL FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE ALL FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE ALL FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.
14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:
(1) WP J.B. FOR RADON FAN

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NUMBER 2010018755
PROFESSIONAL ENGINEER
6/9/2023

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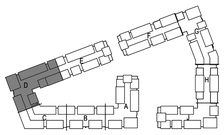
- 03.15.2023 - PERMIT SUBMITTAL



KEY PLAN
NO SCALE

NORTH

△REVISIONS

2	23-0428	ADD 1/CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4
10	23-09-15	ASI 6

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CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
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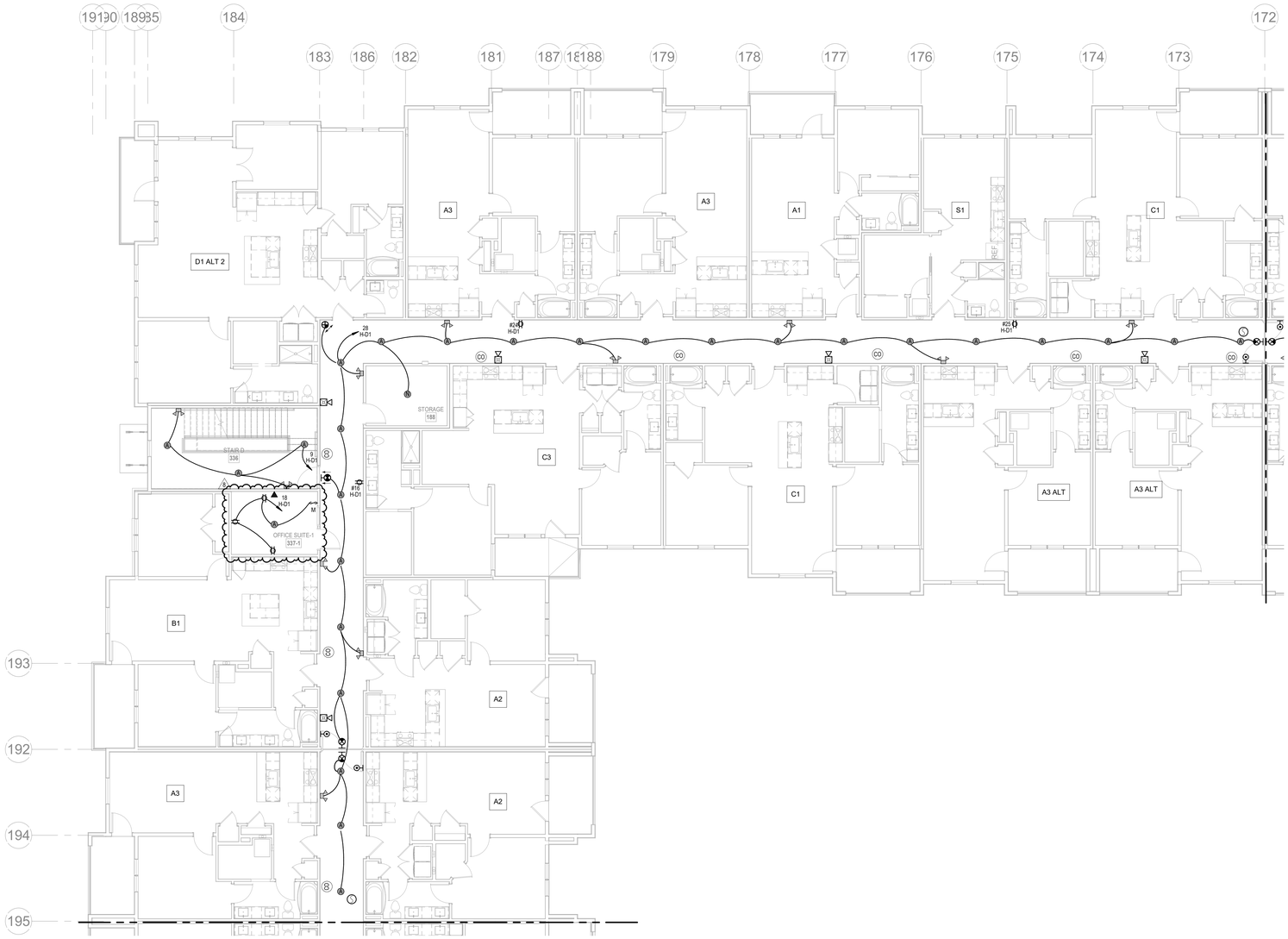
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT D - 1ST FLOOR - ELECTRICAL
SHEET NO. E1.14

9/15/2023 9:43:49 AM

ARCH E1.50" x 42"



1 **2ND FLOOR - SEGMENT D**
ELECTRICAL
1/8" = 1'-0"
NORTH

NOTES:
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12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.
14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:
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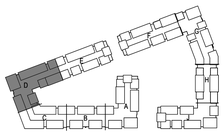

KEY PLAN
NO SCALE
NORTH

REVISIONS
2 23 0428 ADD 1CC 2
8 23-08-11 ASI 4

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CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
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Telephone: (785) 233-3232
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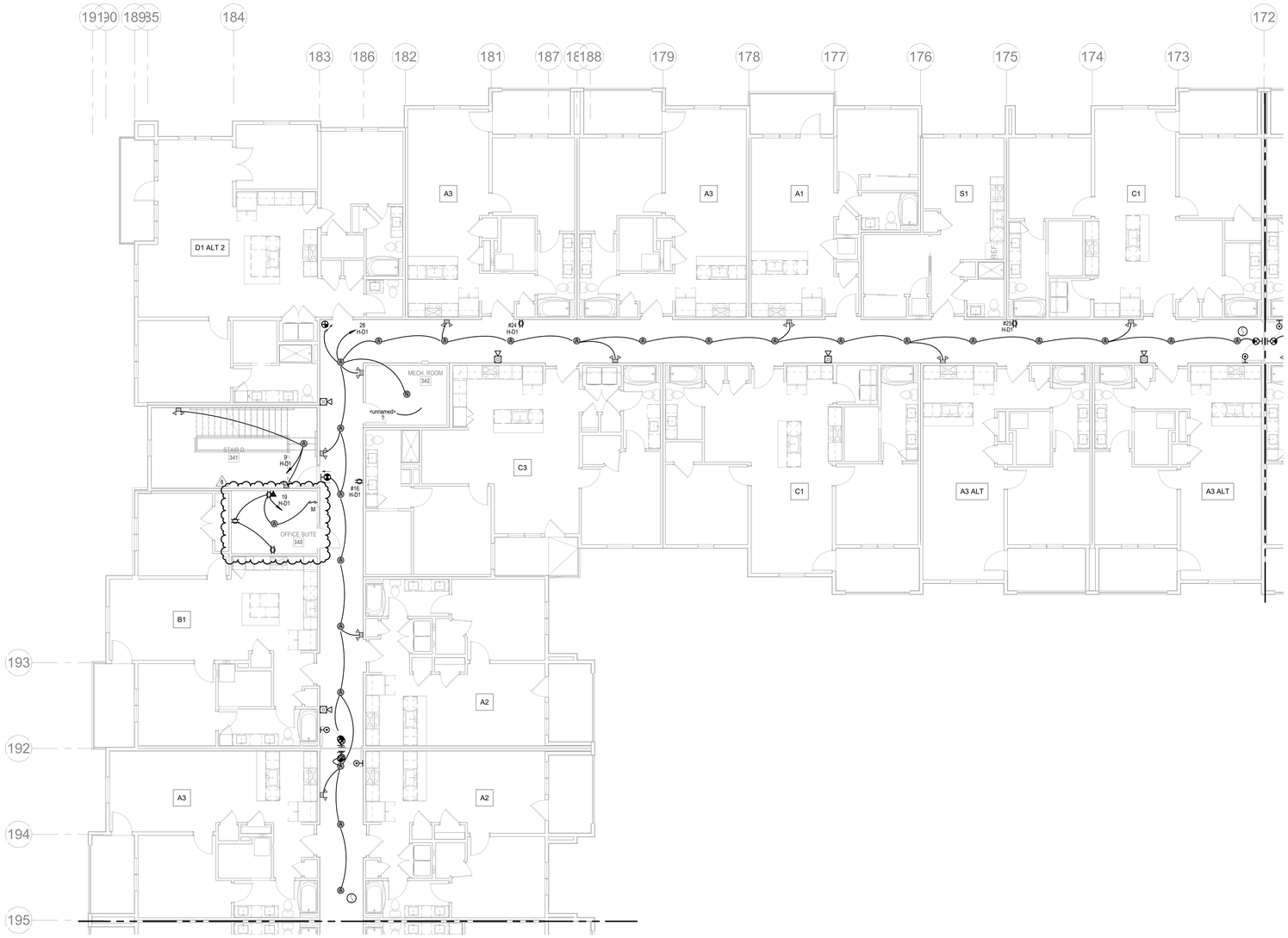
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT D - 2ND FLOOR - ELECTRICAL
SHEET NO. E1.15

8/10/2023 2:18:34 PM

ARCH E1.30" x 42"



1 3RD FLOOR - SEGMENT D

ELECTRICAL
1/8" = 1'-0"

NORTH

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DRAWING RELEASE LOG
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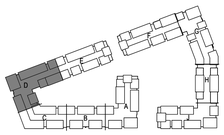

NORTH

KEY PLAN

NO SCALE

REVISIONS
2 23-04-28 ADD 1 CC 2
8 23-08-11 ASI 4

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Overland Park, Kansas 66210
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LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT D - 3RD FLOOR - ELECTRICAL
SHEET NO. E1.16

8/10/2023 2:16:36 PM

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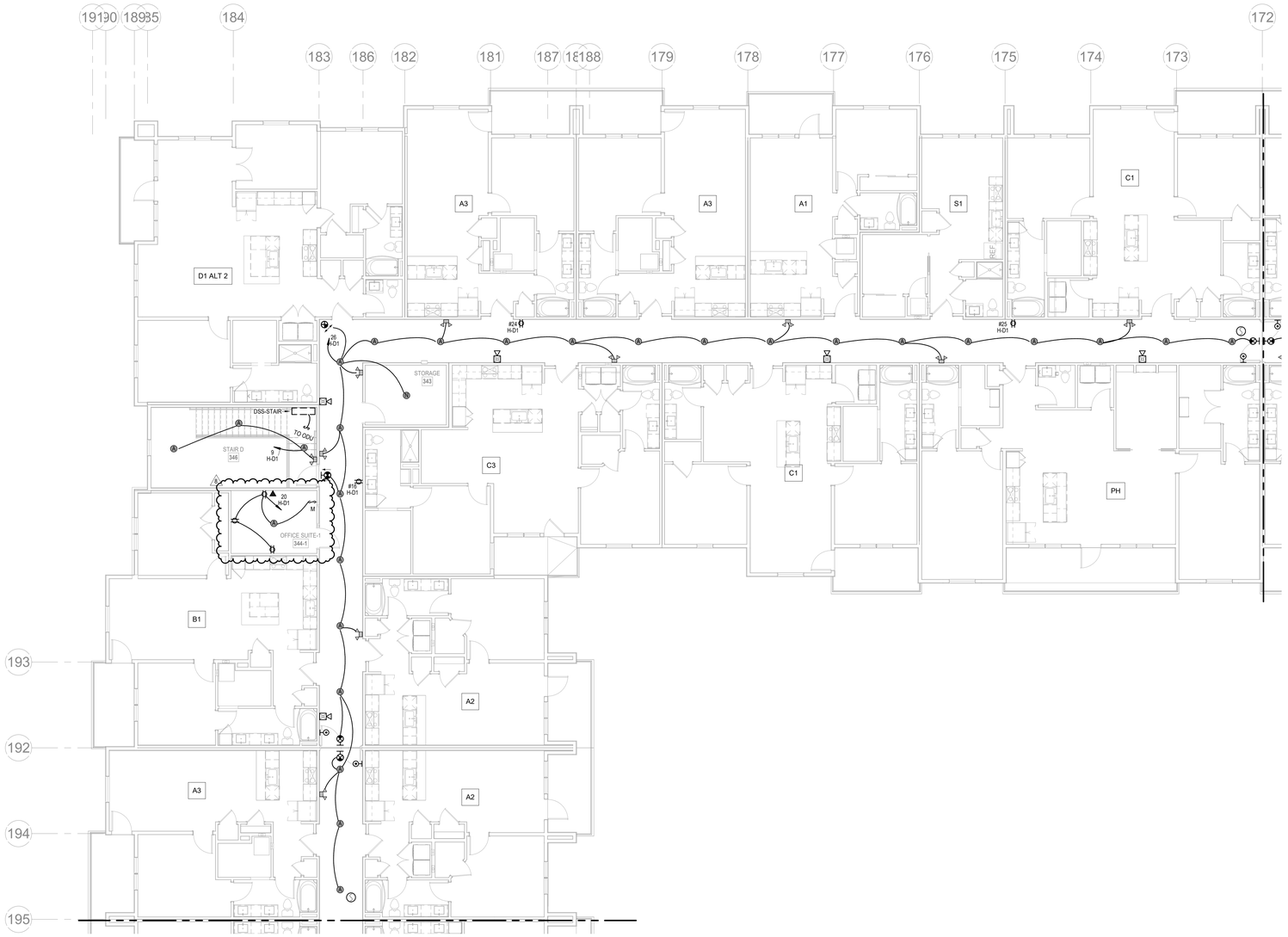

1 **4TH FLOOR - SEGMENT D**
ELECTRICAL
1/8" = 1'-0"
NORTH

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14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:
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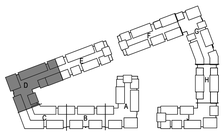
DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

REVISIONS
2 23 0428 ADD 1CC 2
8 23-06-11 ASI 4



NORTH
KEY PLAN
NO SCALE

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8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
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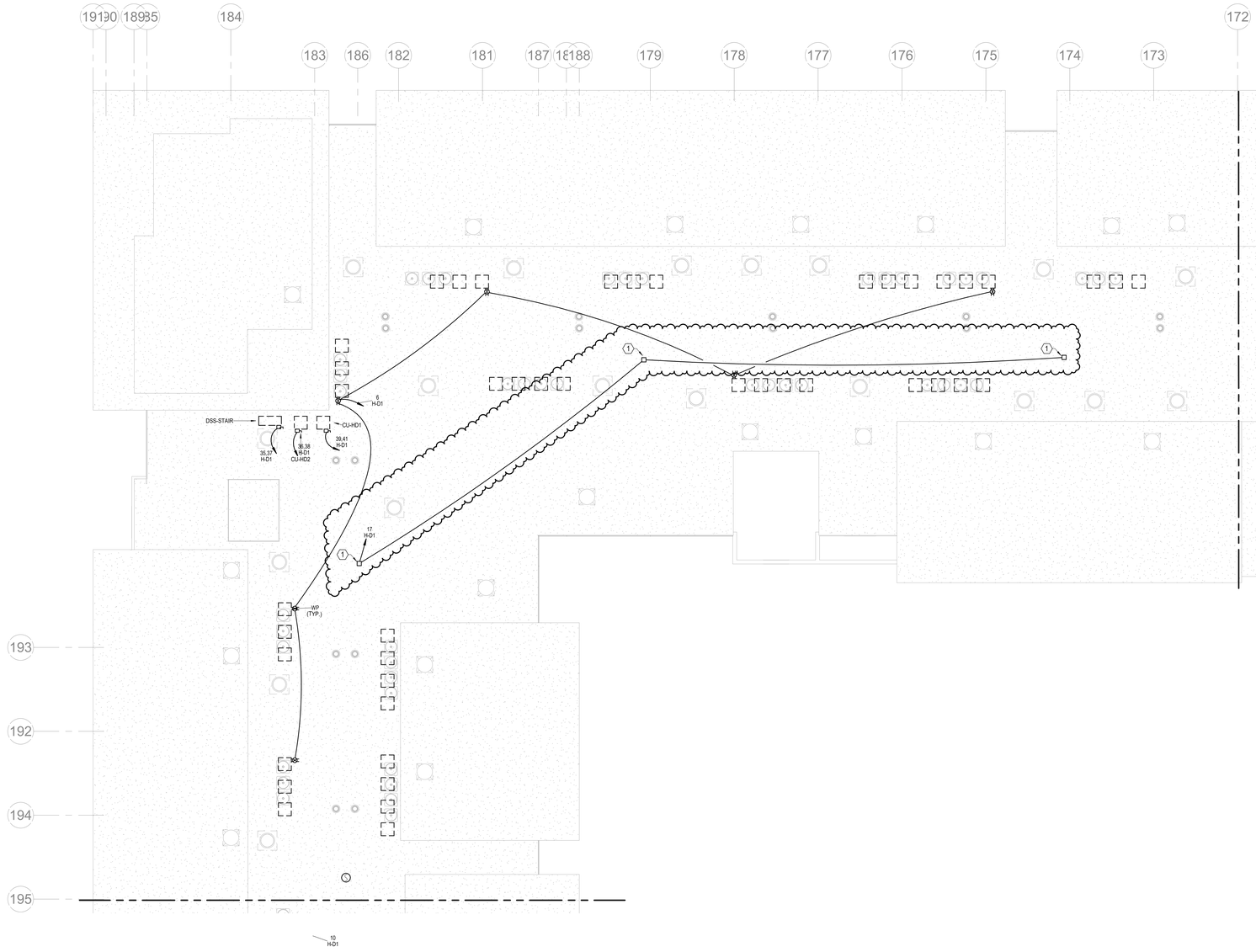
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT D - 4TH FLOOR - ELECTRICAL
SHEET NO. E1.17

8/10/2023 2:18:37 PM

ARCH E1.30" x 42"



NORTH

1 ROOF PLAN - SEGMENT D

ELECTRICAL
1/8" = 1'-0"

NOTES:
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13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

LEGEND:
(1) WP J.B. FOR RADON FAN

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ARCHITECTURE
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6/9/2023

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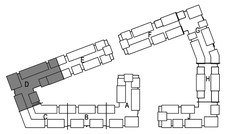
DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL



NORTH

KEY PLAN

NO SCALE

△REVISIONS
7 23-07-13 ASI 3

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Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
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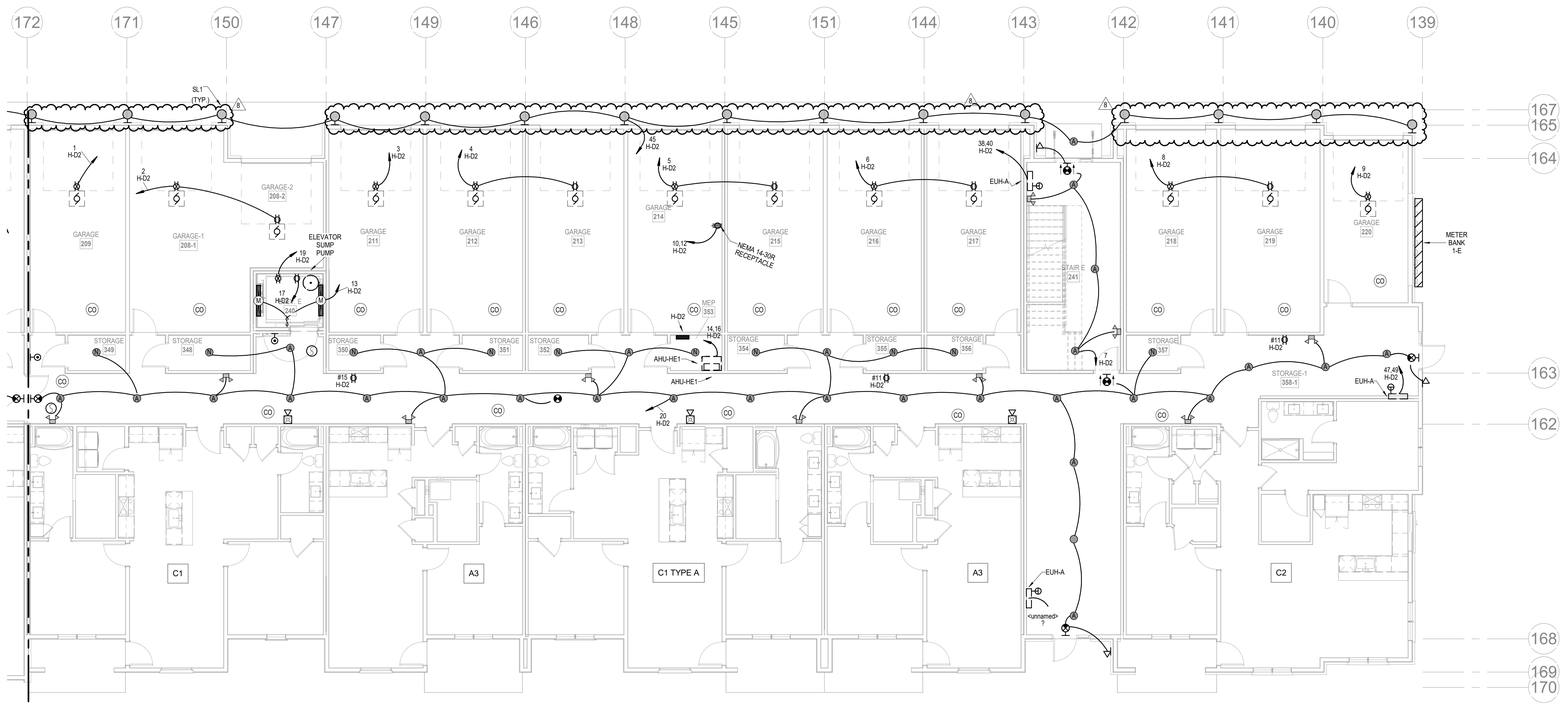
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT D - ROOF PLAN - ELECTRICAL
SHEET NO. E1.18

7/13/2023 4:27:59 PM

ARCH E1.30" x 42"



1 1ST FLOOR - SEGMENT E

ELECTRICAL

1/8" = 1'-0"

NORTH

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES

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6/9/2023

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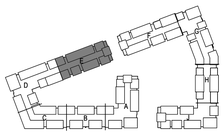
DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS

2	23.04.28	ADD 1 CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4



NORTH

KEY PLAN

NO SCALE

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LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT E - 1ST FLOOR - ELECTRICAL
SHEET NO. E1.19

8/10/2023 2:18:41 PM

ARCH E1.30" x 42"

1 **2ND FLOOR - SEGMENT E**
ELECTRICAL
1/8" = 1'-0"

NORTH

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04/28/2023

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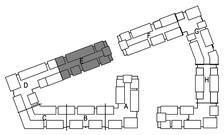
TRILOGY

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

DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS
2 23.0428 ADD 1/CC 2



KEY PLAN
NO SCALE

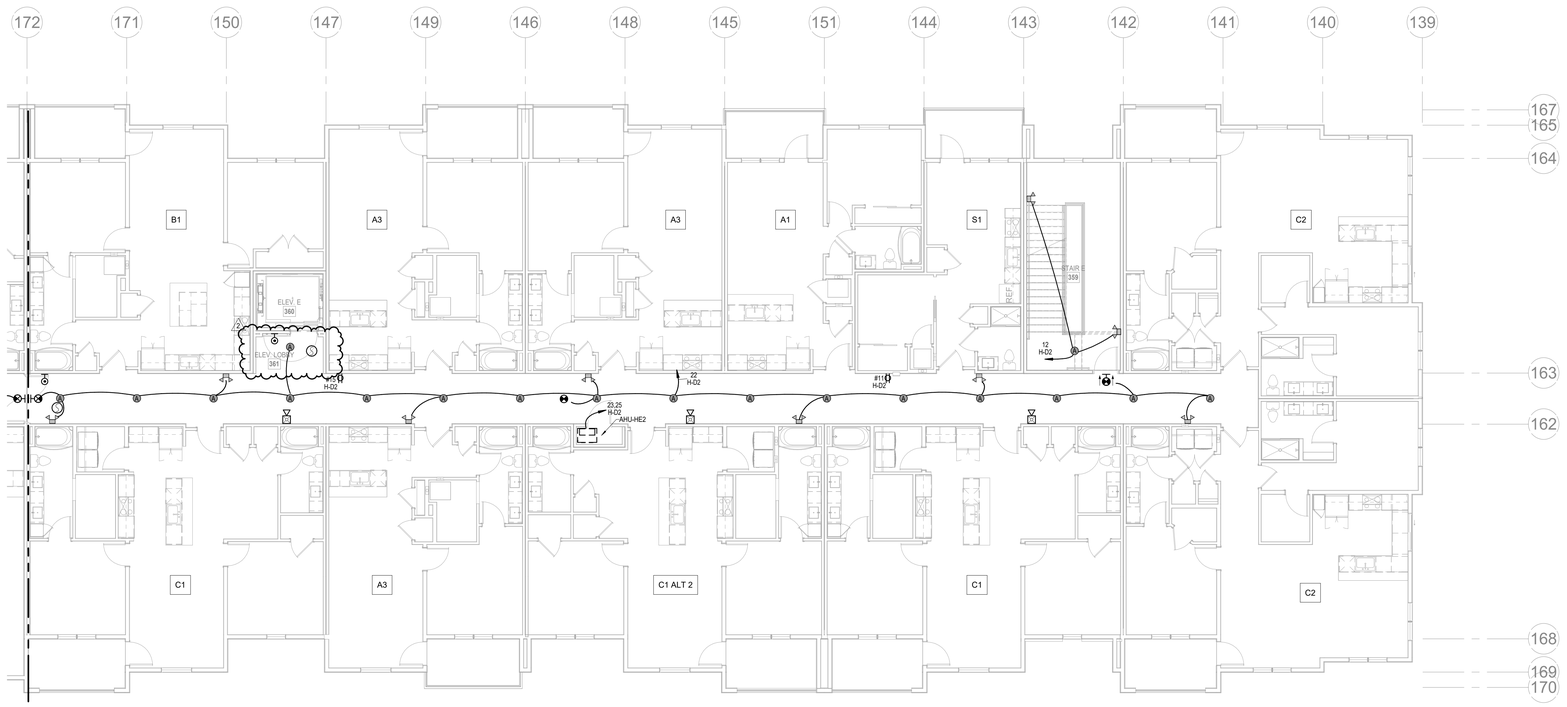
NORTH

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-2874
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT E - 2ND FLOOR - ELECTRICAL
SHEET NO. E1.20

5/1/2023 3:48:08 PM

ARCH E1.30" x 42"



1 **3RD FLOOR - SEGMENT E**
ELECTRICAL
1/8" = 1'-0"

NORTH

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10. ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE ALL ⊗ ⊗ ⊗ FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE ALL ▭ FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE ALL ▭ FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE ALL ▭ FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

ARCHITECTURE
LANDSCAPE
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ENERGY SERVICES

NSPJ
ARCHITECTS, Inc.
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

P. 913.831.1415
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

04/28/2023

A NEW RESIDENTIAL COMMUNITY AT:
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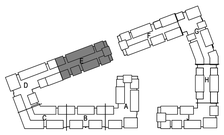

NORTH

KEY PLAN
NO SCALE

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LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
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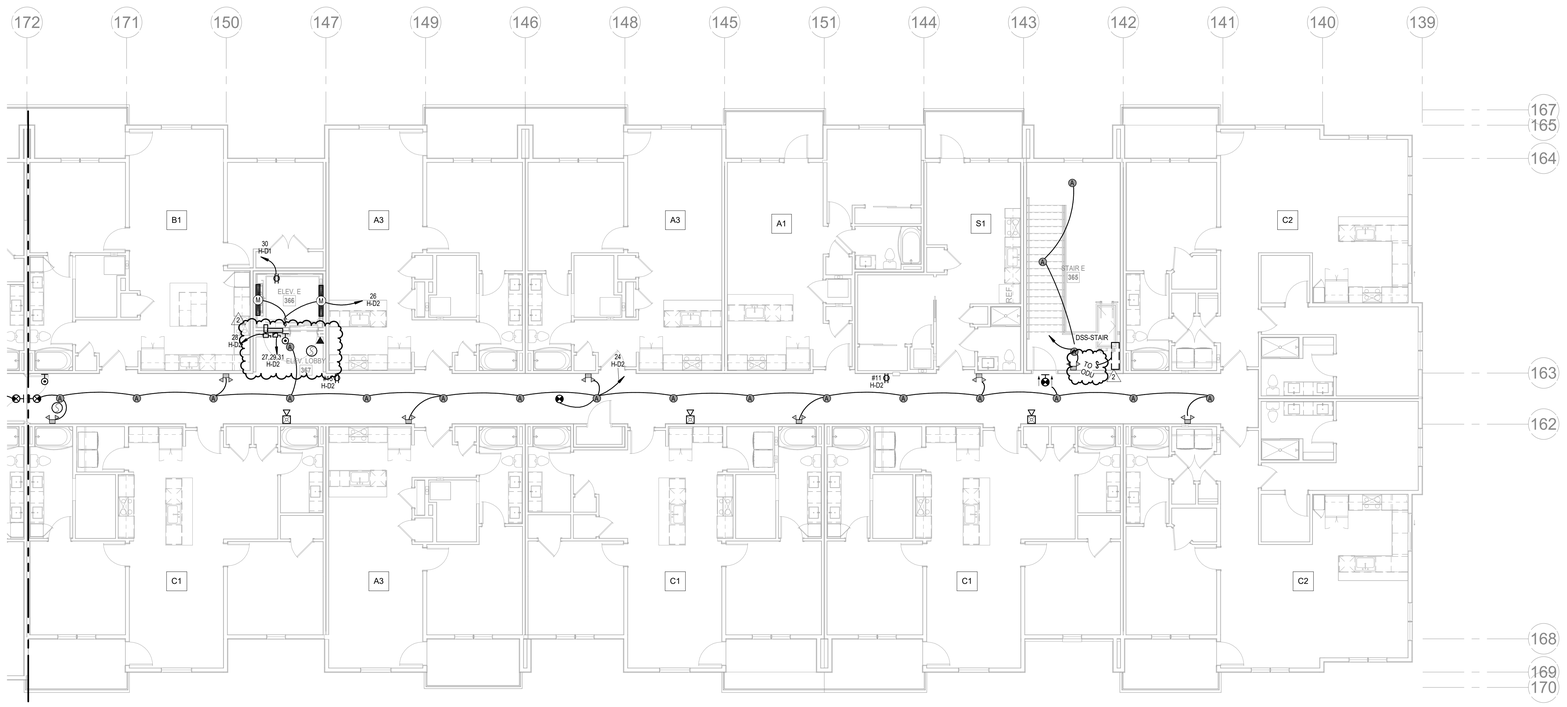
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT E - 3RD FLOOR - ELECTRICAL
SHEET NO. E1.21

5/1/2023 3:48:10 PM

ARCH E1.30" x 42"



NORTH

1 4TH FLOOR - SEGMENT E

ELECTRICAL

1/8" = 1'-0"

NOTES:
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3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
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9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
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NSPJ ARCHITECTS, Inc.
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F. 913.831.1563
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NUMBER 2010035010
PROFESSIONAL ENGINEER

04/28/2023

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- 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS
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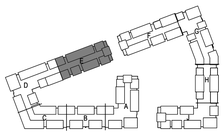

NORTH

KEY PLAN

NO SCALE

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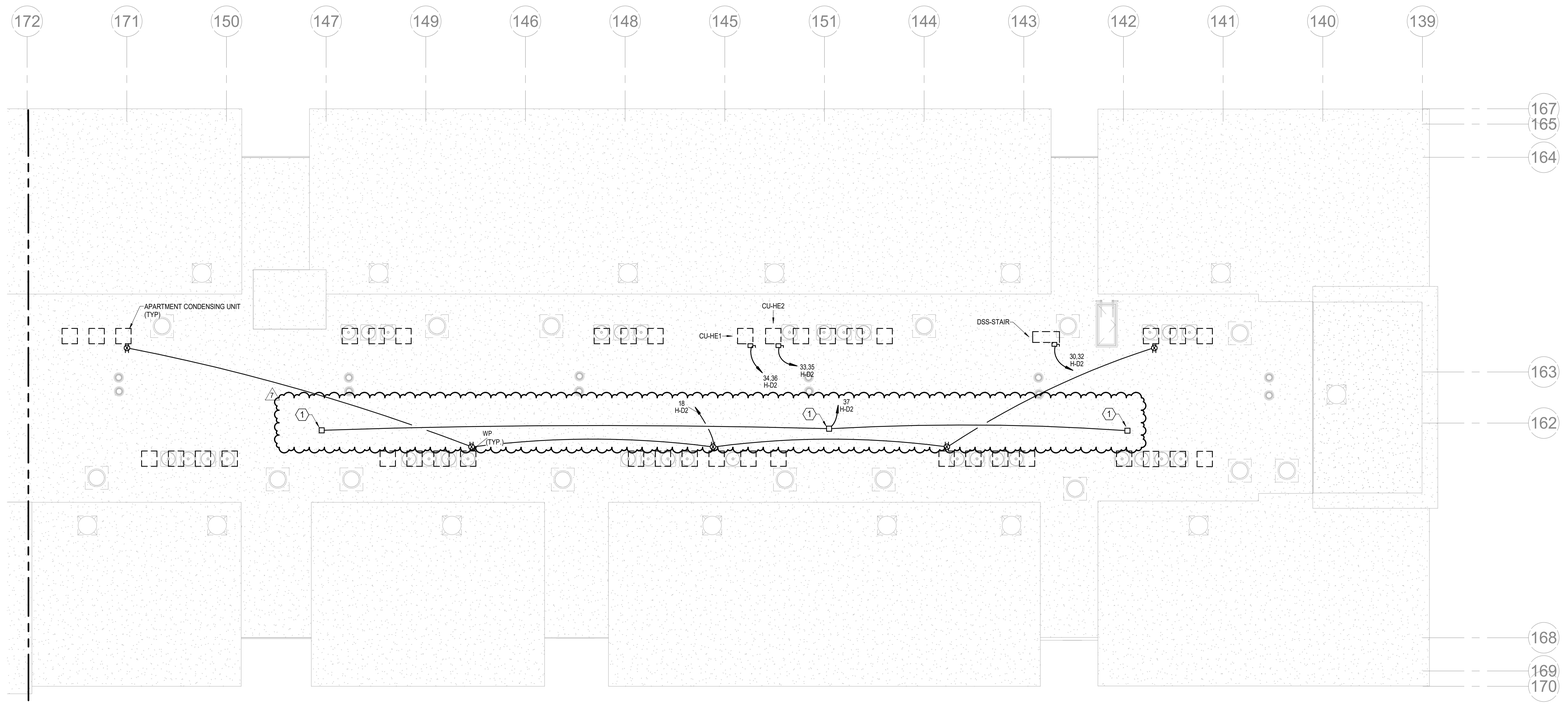
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT E - 4TH FLOOR - ELECTRICAL
SHEET NO. E1.22

5/1/2023 3:48:13 PM

ARCH E1.30" x 42"



NORTH

1 ROOF PLAN - SEGMENT E

ELECTRICAL
1/8" = 1'-0"

NOTES:
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11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

LEGEND:
(1) WP J.B. FOR RADON FAN

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES
NSPJ ARCHITECTS, Inc.
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PRAIRIE VILLAGE, KS 66208
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RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
6/9/2023

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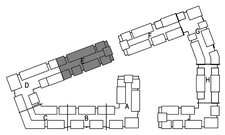
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS
7 23-07-13 ASI 3



NORTH

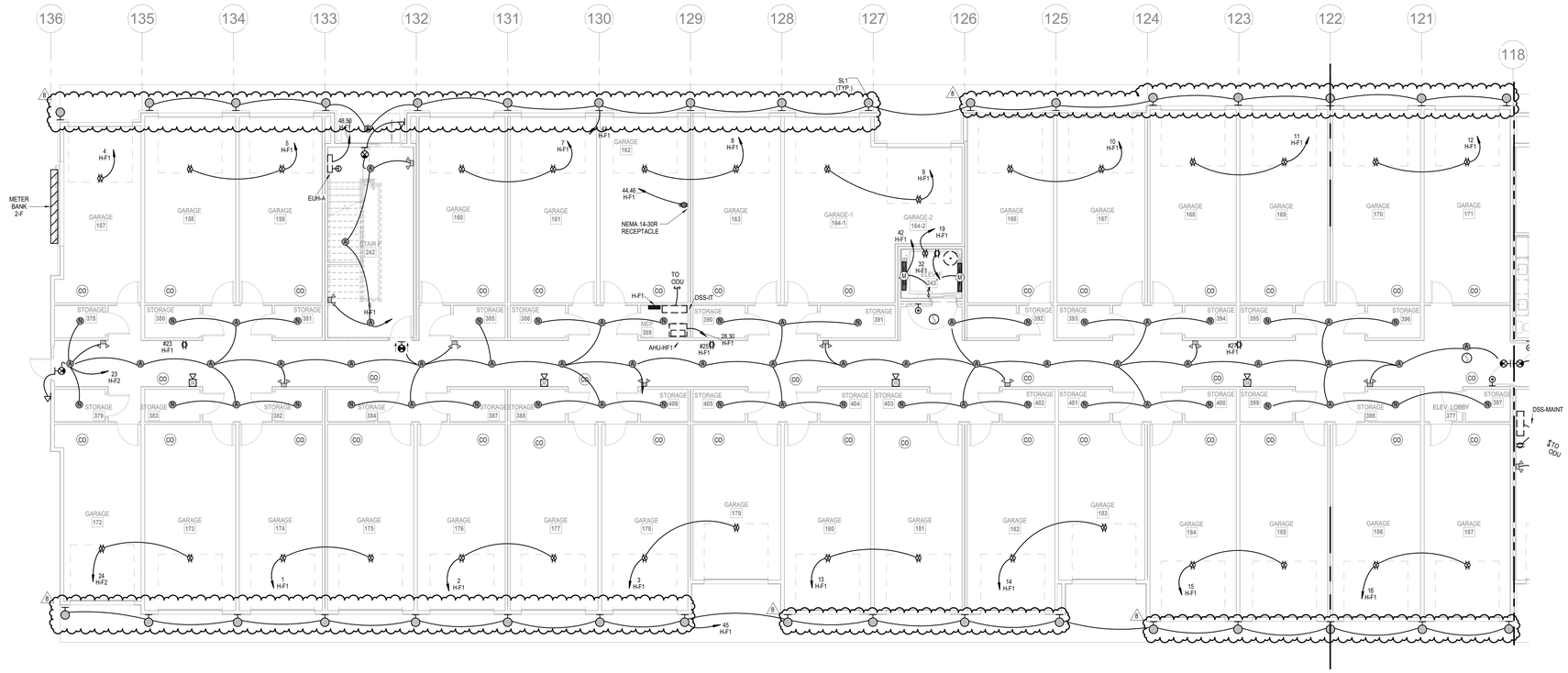
KEY PLAN
NO SCALE

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023
CITY COMMENTS #3
SHEET NAME
SEGMENT E - ROOF PLAN - ELECTRICAL
SHEET NO.
E1.23

7/13/2023 4:28:00 PM

ARCH E1.30" x 42"



1 **1ST FLOOR - SEGMENT F**
ELECTRICAL
1/8" = 1'-0"

NORTH

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.
14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:
1 WP J.B. FOR RADON FAN

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES

NSPJ ARCHITECTS, Inc.
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PROFESSIONAL ENGINEER

6/9/2023

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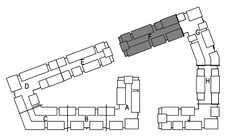

NORTH

KEY PLAN
NO SCALE

△REVISIONS

2	23 0428	ADD 1CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4

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Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT F - 1ST FLOOR - ELECTRICAL
SHEET NO. E1.24

8/10/2023 2:18:46 PM

ARCH E1.50" x 42"

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
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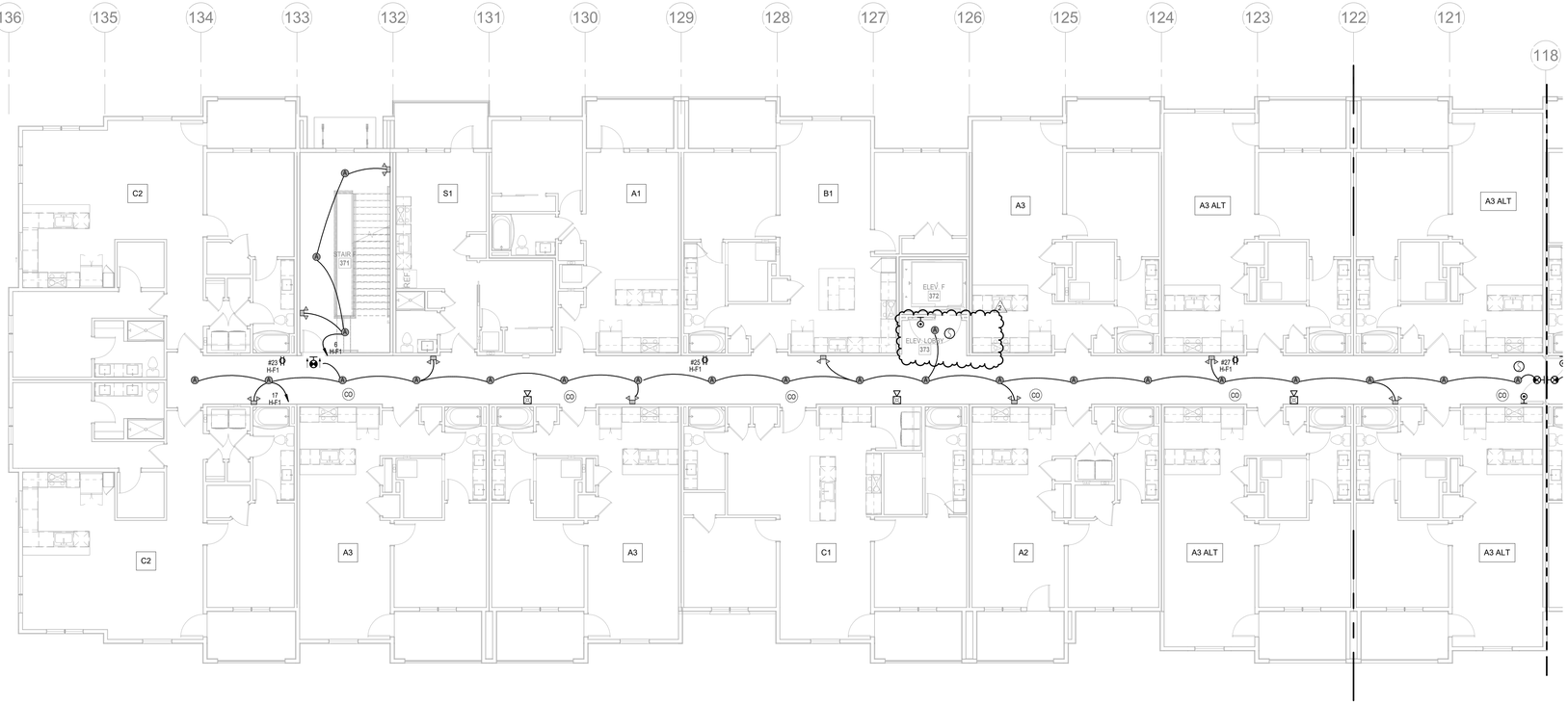

NORTH

1 2ND FLOOR - SEGMENT F

ELECTRICAL
1/8" = 1'-0"

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ENERGY SERVICES

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PRAIRIE VILLAGE, KS 66208
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F. 913.831.1563
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NUMBER
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04/28/2023

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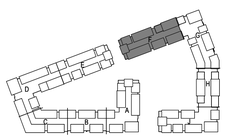

NORTH

KEY PLAN
NO SCALE

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DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT F - 2ND FLOOR - ELECTRICAL
SHEET NO. E1.25

5/1/2023 3:45:19 PM

ARCH E1.50" x 42"

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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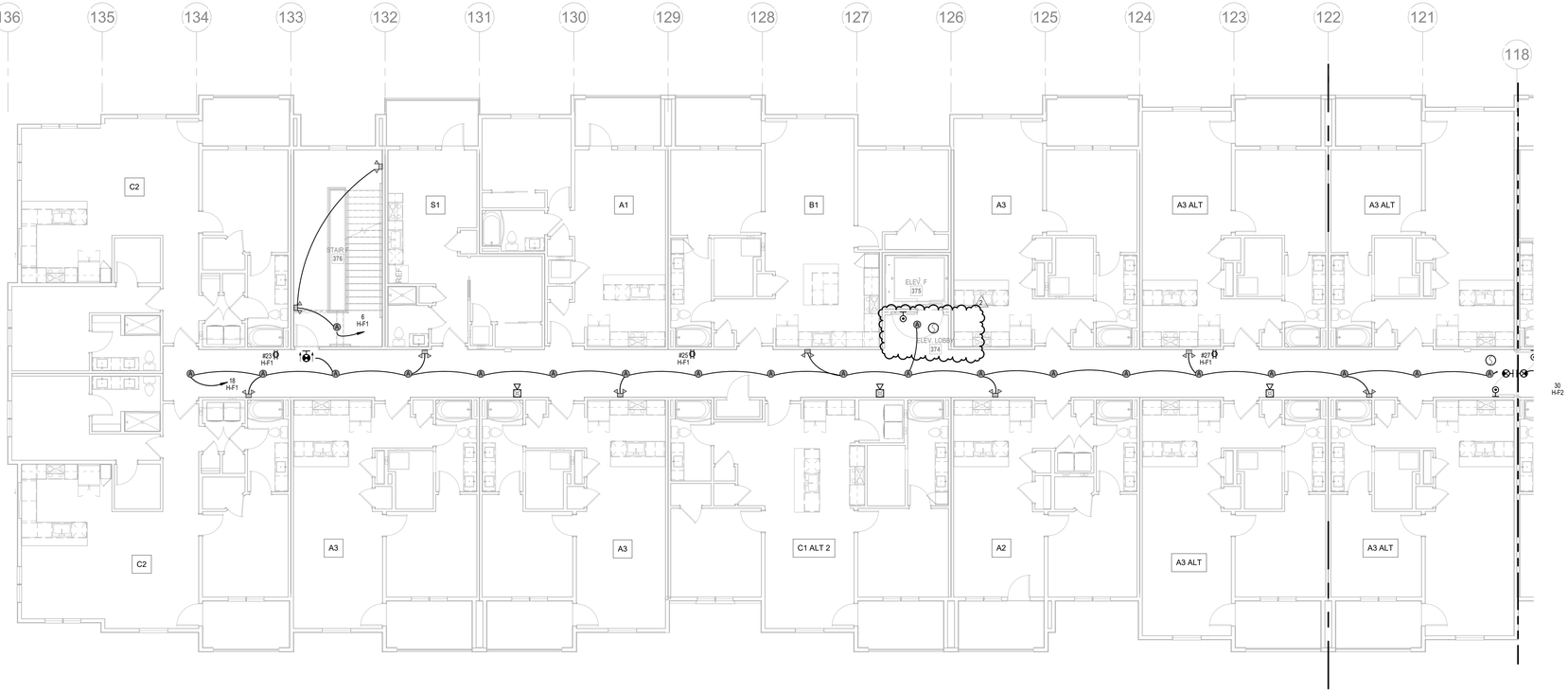

NORTH

1 3RD FLOOR - SEGMENT F

ELECTRICAL
1/8" = 1'-0"

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LANDSCAPE
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RICHARD R. BEARDMORE
NUMBER A-2007018
PROFESSIONAL ENGINEER

04/28/2023

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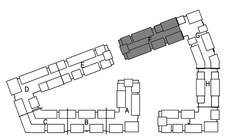

NORTH

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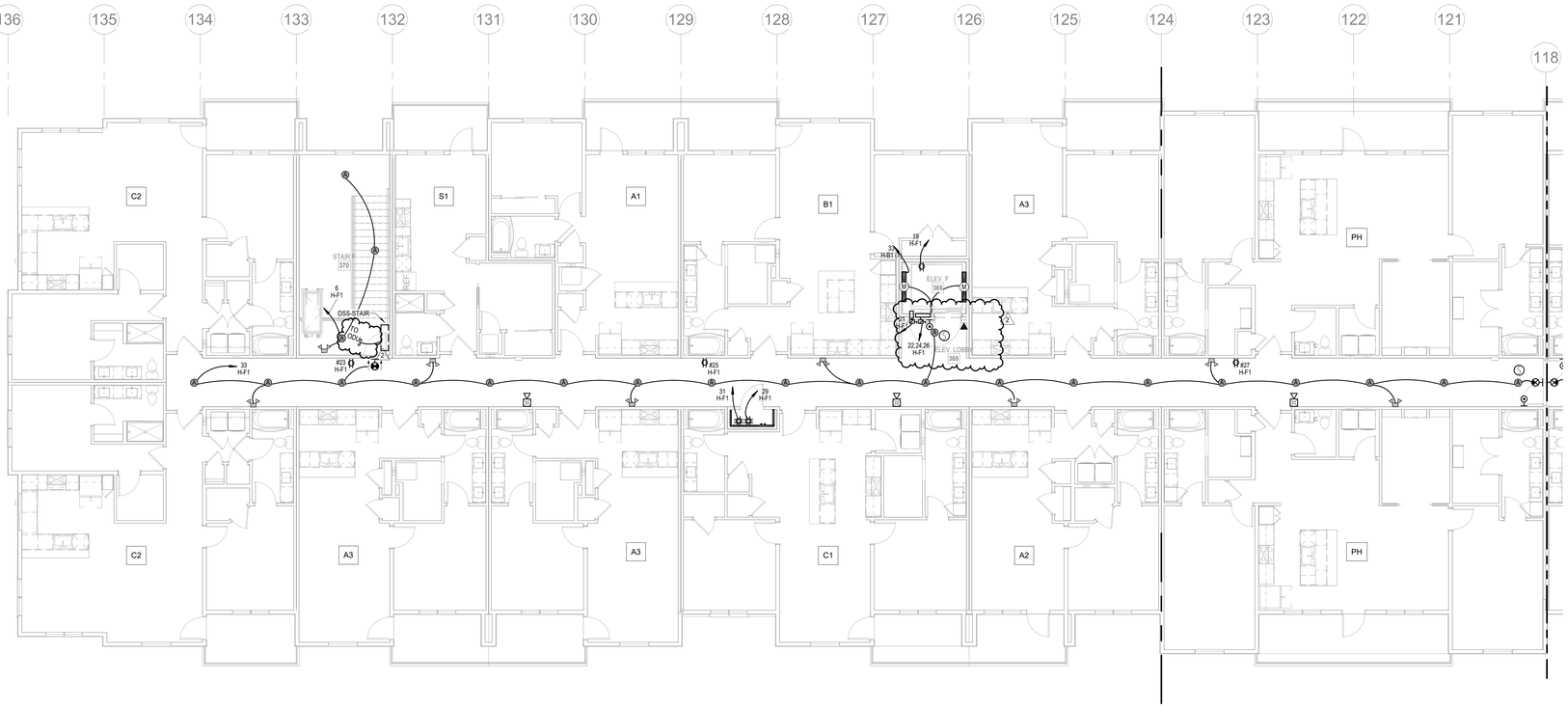
SHEET NAME
SEGMENT F - 3RD FLOOR - ELECTRICAL
SHEET NO.
E1.26

5/1/2023 3:45:22 PM

ARCH E1.30" x 42"



1 **4TH FLOOR - SEGMENT F**
ELECTRICAL
1/8" = 1'-0"

NORTH

NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
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12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

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STATE OF MISSOURI
REGISTERED
RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER

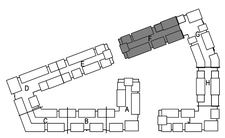
04/28/2023

A NEW RESIDENTIAL COMMUNITY AT:

TRILOGY

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL



NORTH

KEY PLAN
NO SCALE

△REVISIONS
2 23.0428 ADD 1/CC 2

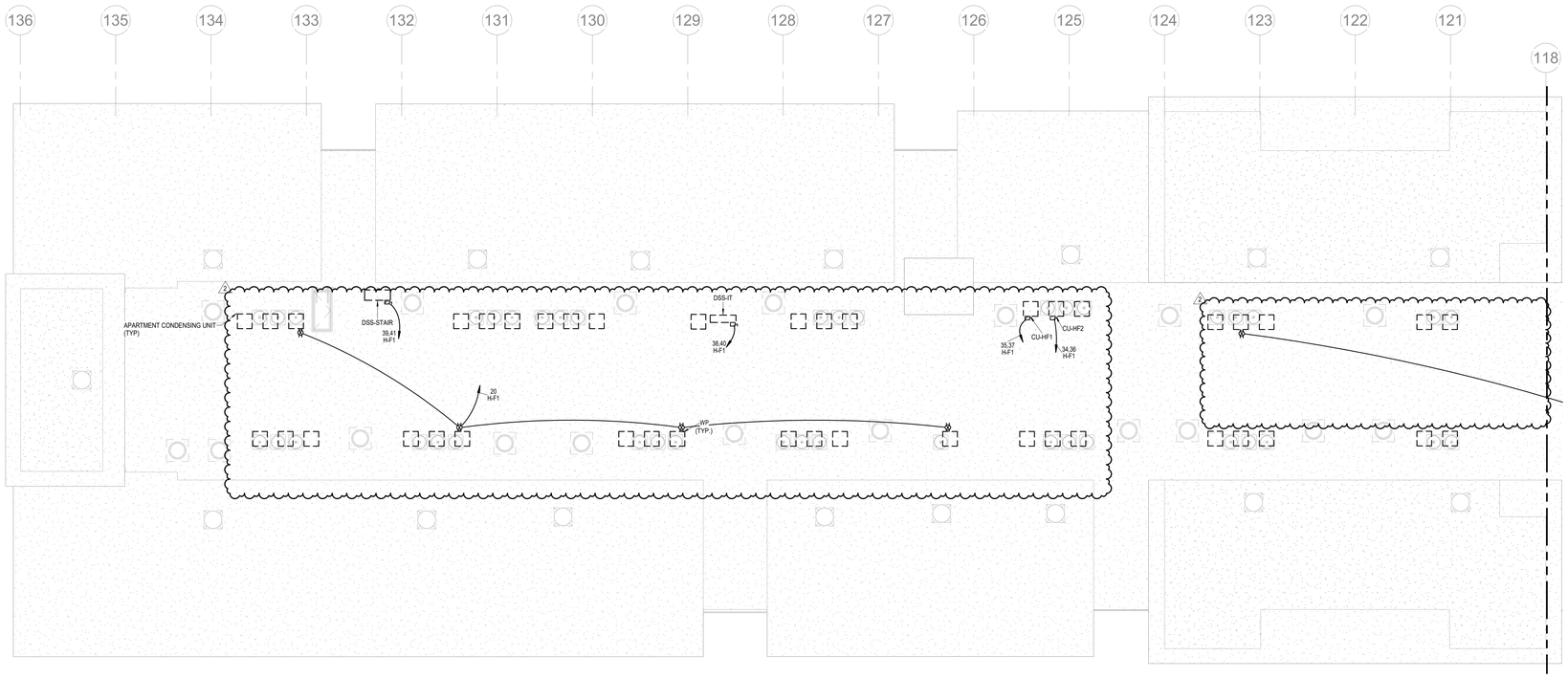
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8826 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com

LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME
SEGMENT F - 4TH FLOOR - ELECTRICAL
SHEET NO.
E1.27

5/1/2023 3:45:24 PM

ARCH E1.50" x 42"



NORTH

1 ROOF PLAN - SEGMENT F

ELECTRICAL

1/8" = 1'-0"

NOTES:
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04/28/2023

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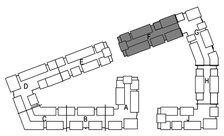

KEY PLAN

NO SCALE

NORTH

△ REVISIONS
2 23.0428 ADD 1/CC 2

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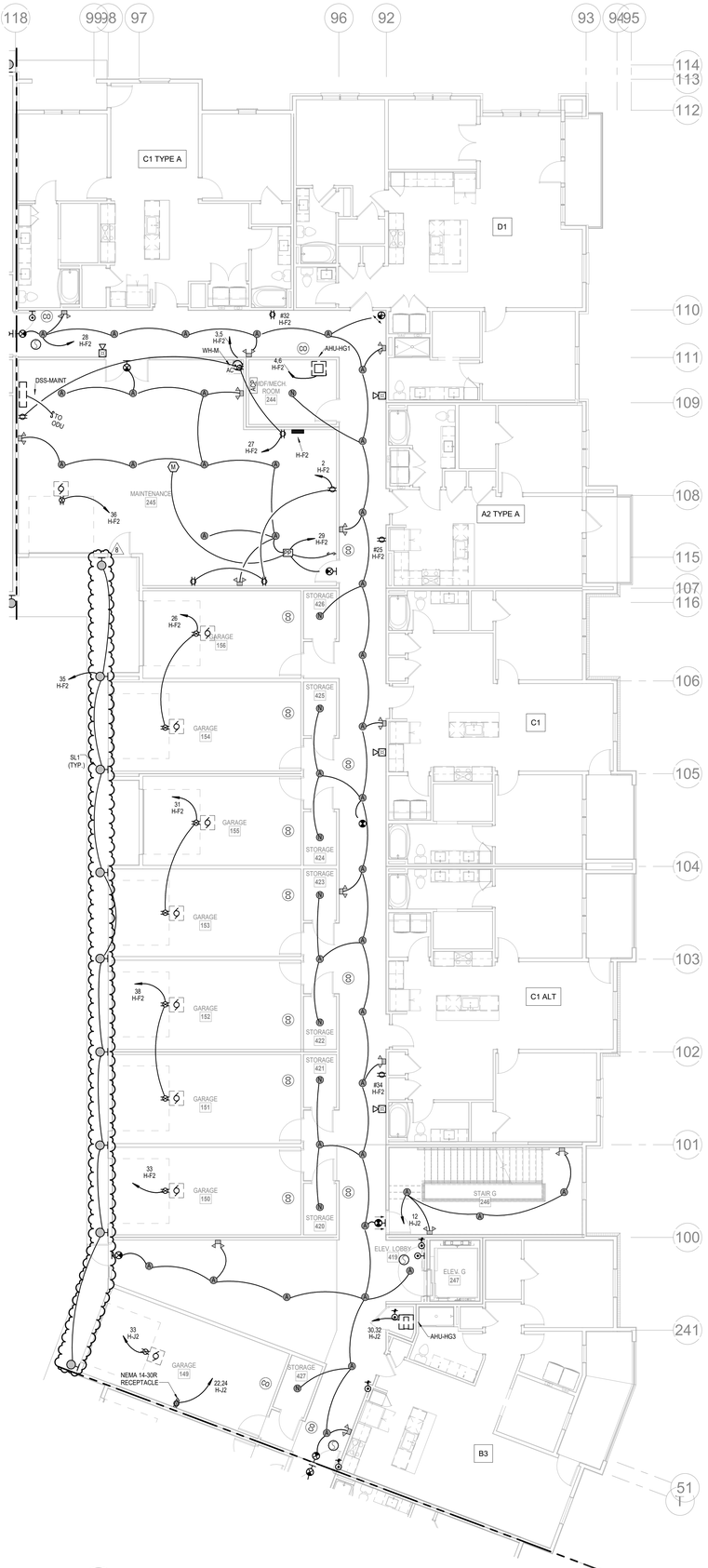
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME SEGMENT F - ROOF PLAN - ELECTRICAL
SHEET NO. E1.28

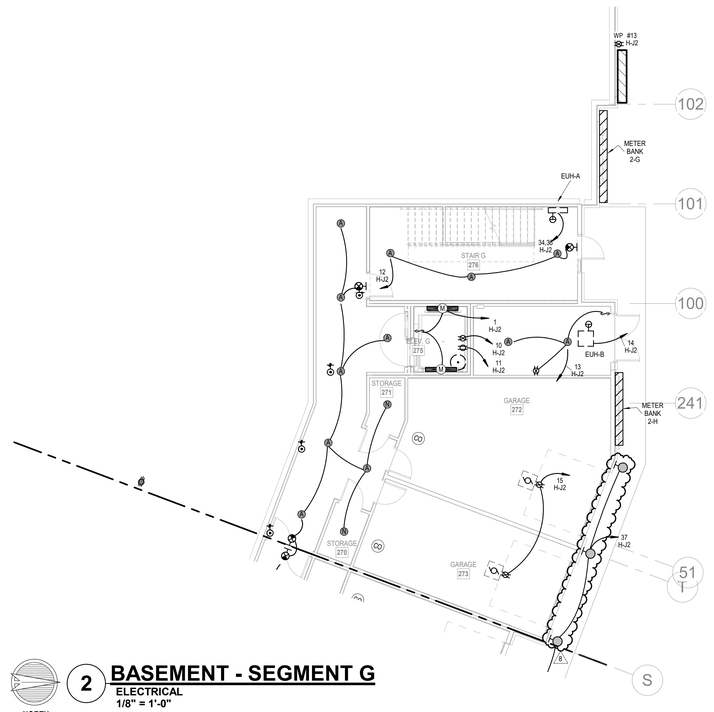
5/1/2023 3:49:05 PM

ARCH E1.30" x 42"



1 **1ST FLOOR - SEGMENT G**
ELECTRICAL
1/8" = 1'-0"

NORTH



2 **BASEMENT - SEGMENT G**
ELECTRICAL
1/8" = 1'-0"

NORTH

NOTES:
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LEGEND:
(1) WP J.B. FOR RADON FAN

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6/9/2023

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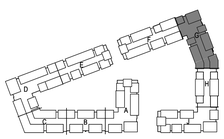
- 03.15.2023 - PERMIT SUBMITTAL



KEY PLAN
NO SCALE

NORTH

REVISIONS

2	23 0428	ADD 1CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

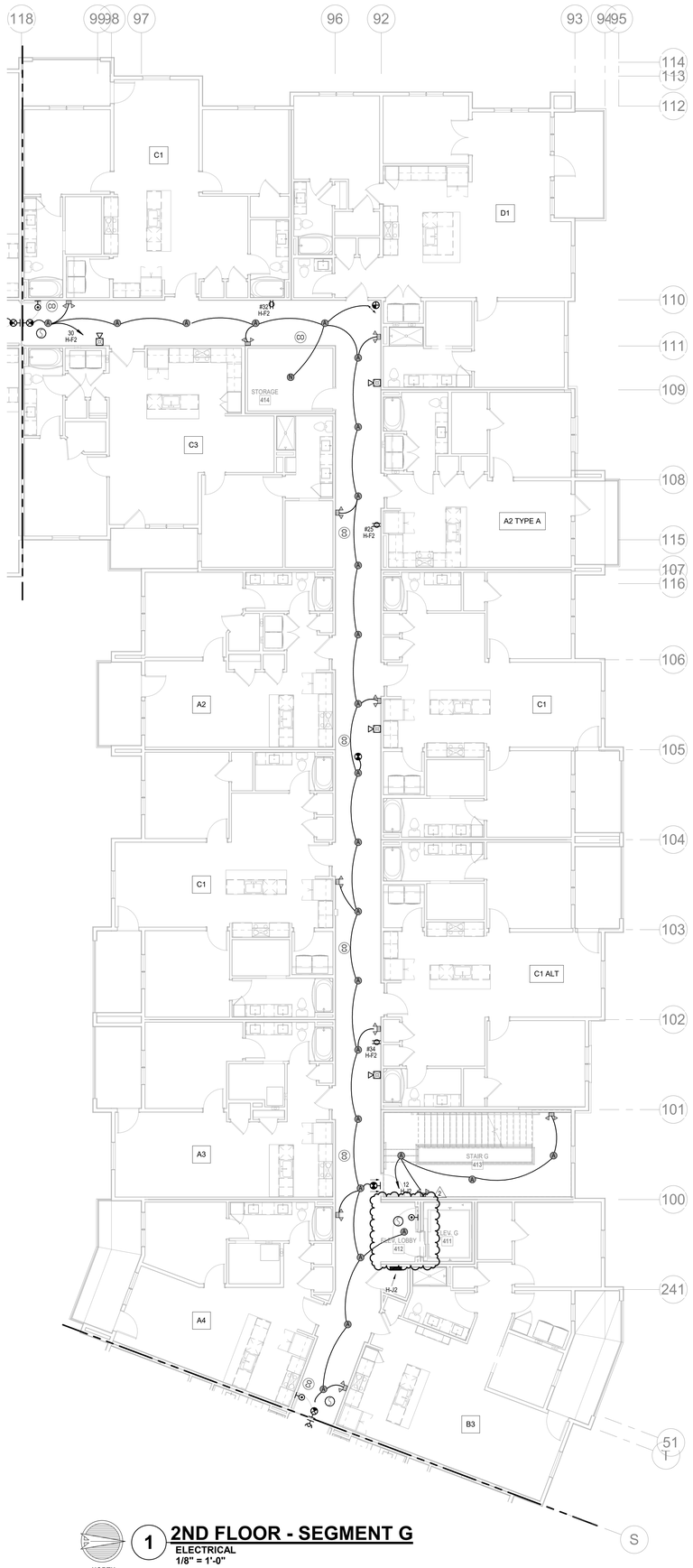
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023
CITY COMMENTS #3

SHEET NAME
SEGMENT G - BASEMENT & 1ST FLOOR - ELECTRICAL

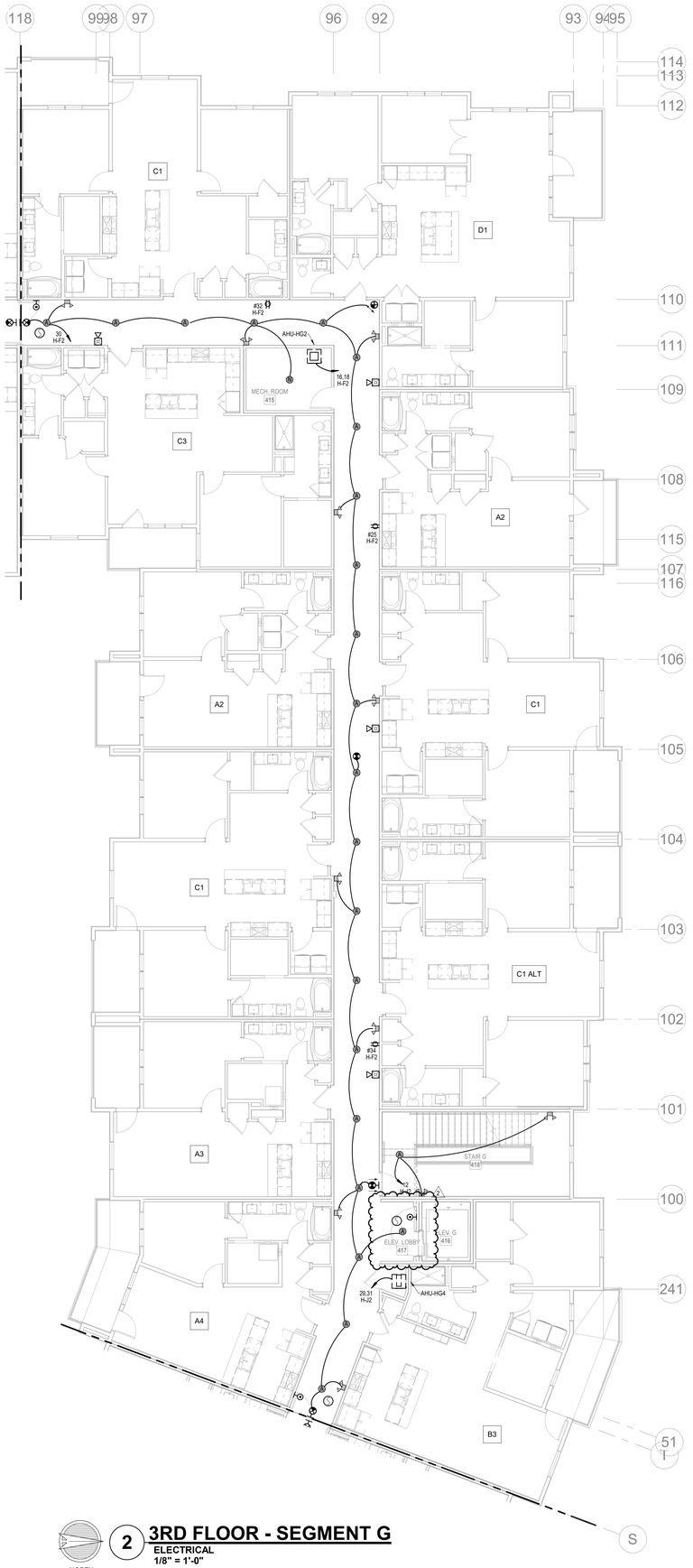
SHEET NO.
E1.29

8/10/2023 2:16:54 PM

ARCH E1.30" x 42"



1 **2ND FLOOR - SEGMENT G**
ELECTRICAL
1/8" = 1'-0"



2 **3RD FLOOR - SEGMENT G**
ELECTRICAL
1/8" = 1'-0"

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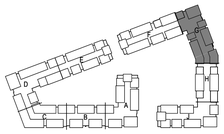
STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
04/28/2023

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL



KEY PLAN
NO SCALE

△ REVISIONS
2 23 0428 ADD 1/CC 2

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
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8826 College Boulevard, Suite 102
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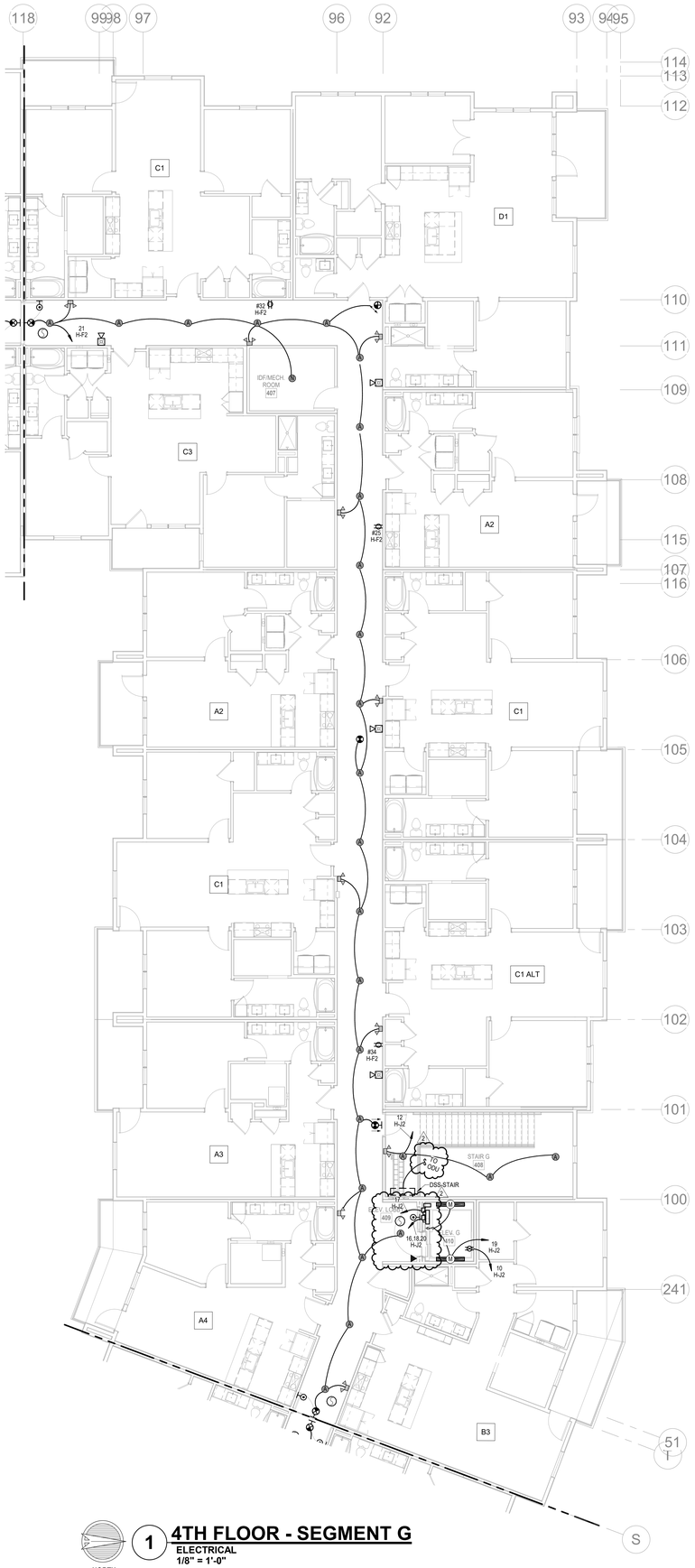
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME
SEGMENT G - 2ND & 3RD FLOOR - ELECTRICAL
SHEET NO.
E1.30

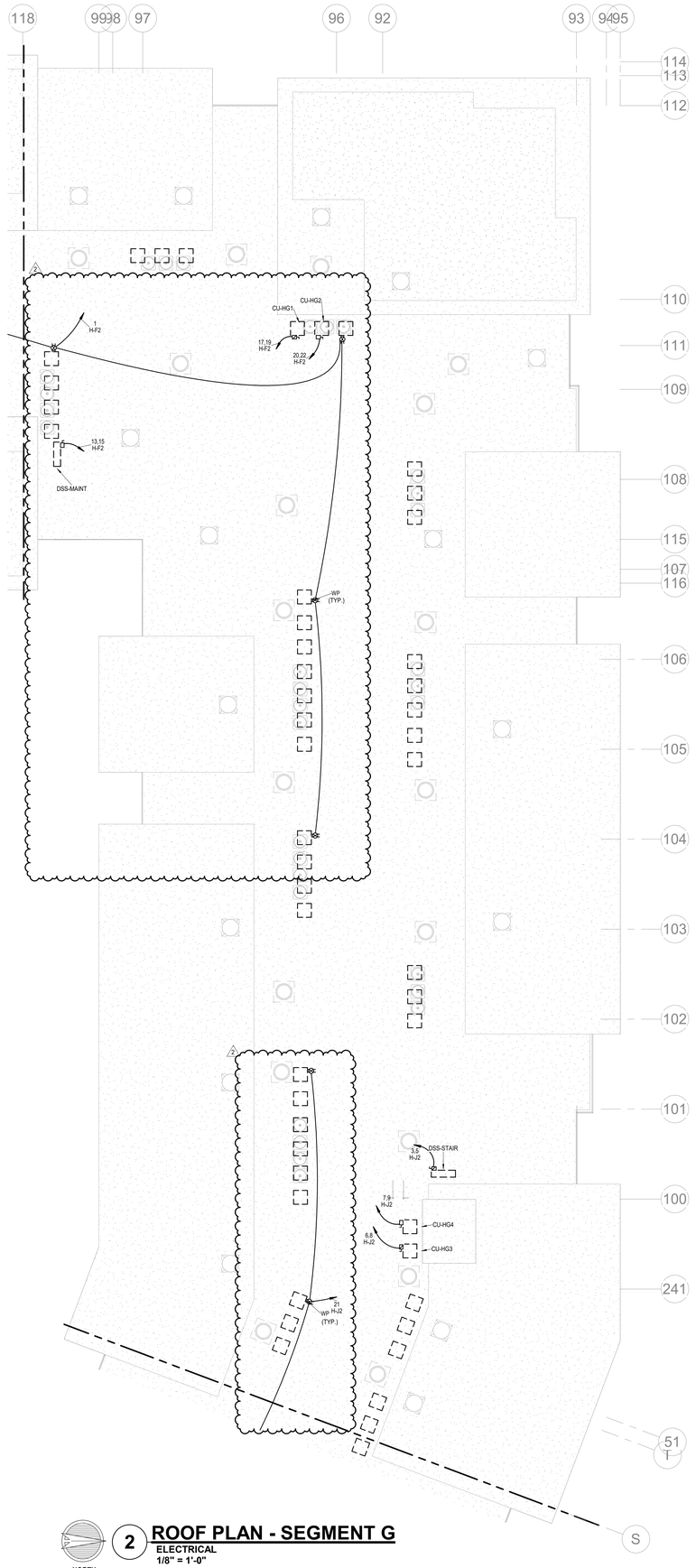
5/1/2023 3:49:35 PM

ARCH E1.30" x 42"



1 4TH FLOOR - SEGMENT G
ELECTRICAL
1/8" = 1'-0"

NORTH



2 ROOF PLAN - SEGMENT G
ELECTRICAL
1/8" = 1'-0"

NORTH

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    ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2007018744
PROFESSIONAL ENGINEER

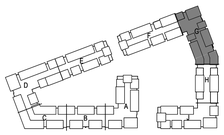
04/28/2023

A NEW RESIDENTIAL COMMUNITY AT:

TRILOGY

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL



KEY PLAN
NO SCALE

NORTH

△REVISIONS
2 23 0428 ADD 1/CC 2

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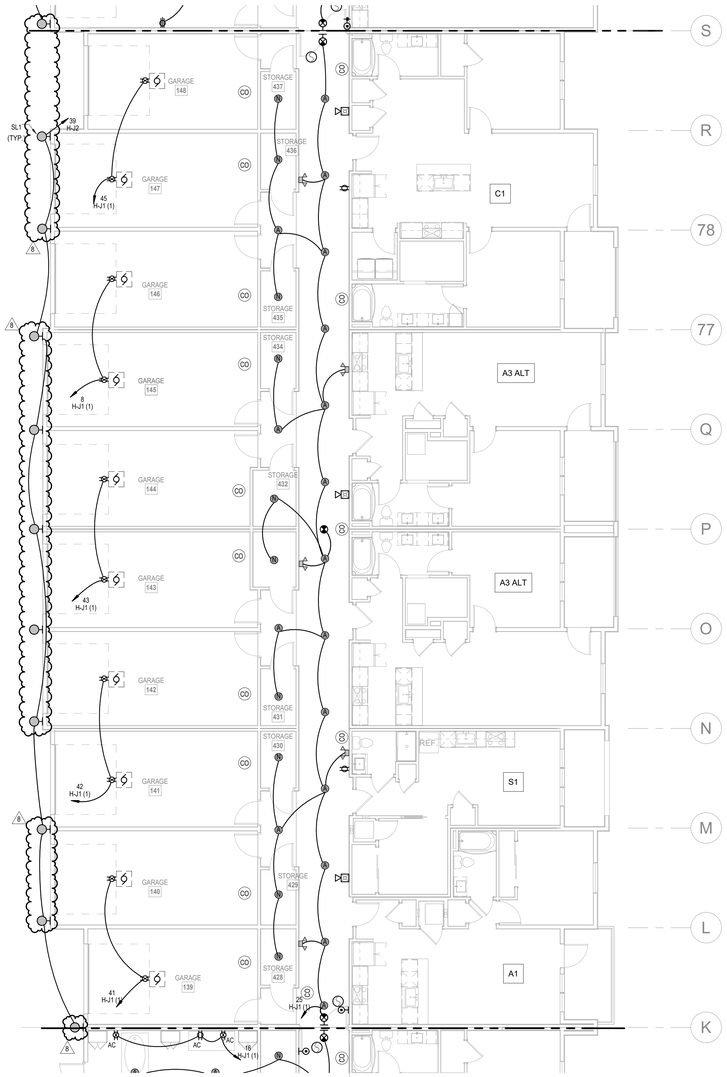
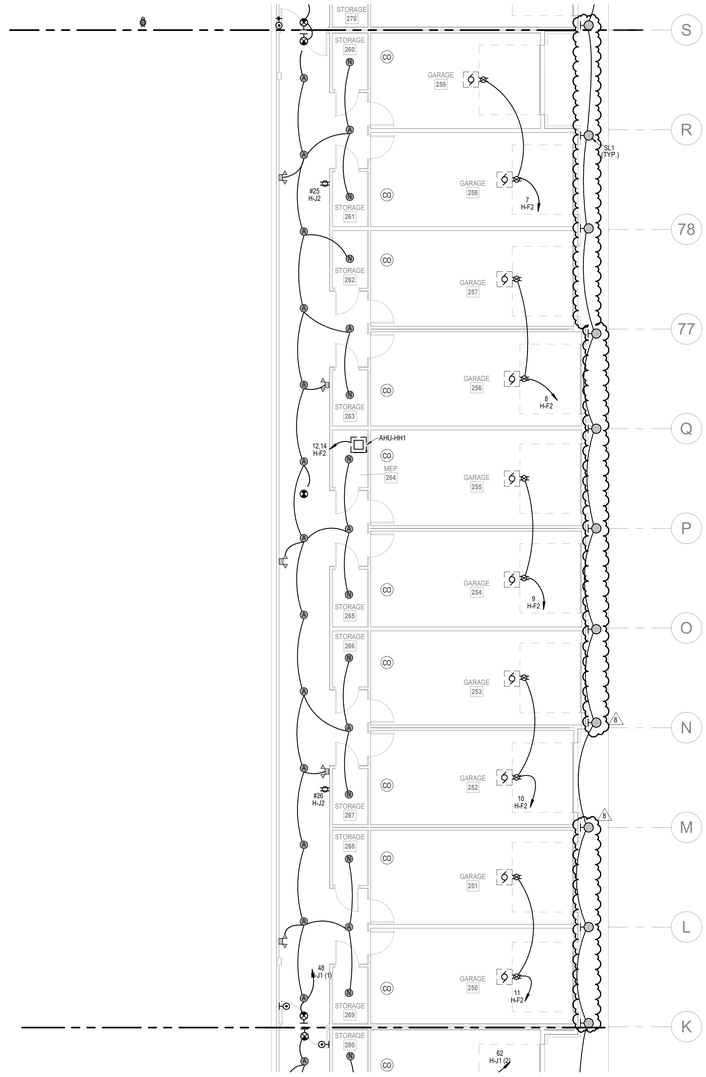
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2
SHEET NAME
SEGMENT G - 4TH FLOOR & ROOF PLAN - ELECTRICAL
SHEET NO.
E1.31

5/1/2023 3:49:39 PM

ARCH E1.30" x 42"





1 **1ST FLOOR - SEGMENT H**
ELECTRICAL
1/8" = 1'-0"
NORTH

2 **BASEMENT - SEGMENT H**
ELECTRICAL
1/8" = 1'-0"
NORTH

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6/9/2023

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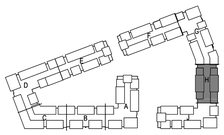

KEY PLAN
NO SCALE
NORTH

△REVISIONS

2	23.0428	ADD 1/CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4

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LSA PROJECT NO. 2204061

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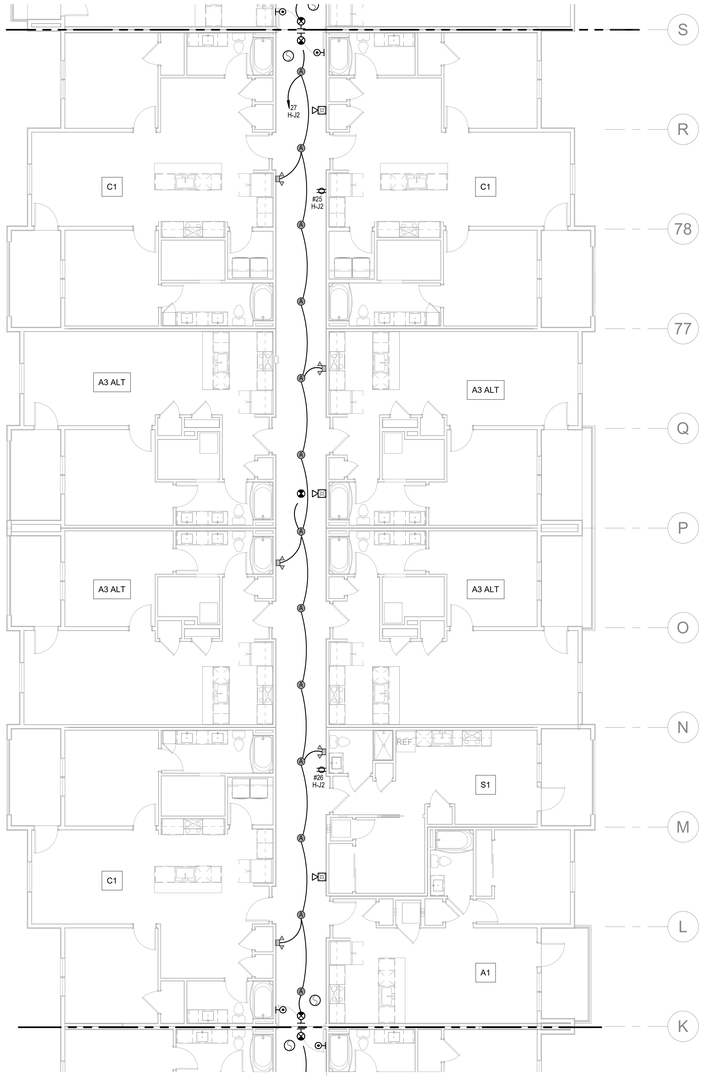
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME SEGMENT H - BASEMENT & 1ST FLOOR - ELECTRICAL
SHEET NO. E1.32

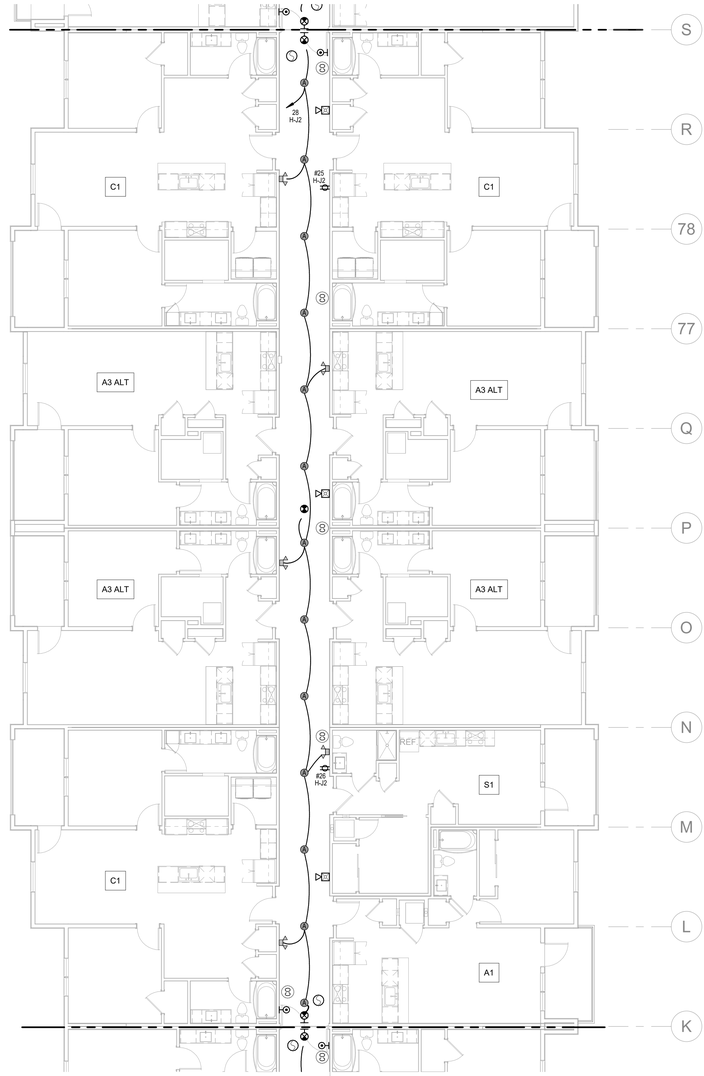
8/10/2023 2:19:01 PM

ARCH E1.50" x 42"



NORTH

1 3RD FLOOR - SEGMENT H
ELECTRICAL
1/8" = 1'-0"



NORTH

2 2ND FLOOR - SEGMENT H
ELECTRICAL
1/8" = 1'-0"

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4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10. ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE ALL ⊗ ⊗ ⊗ FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE ALL ⊗ FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE ALL ⊗ FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE ALL ▽ FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
11. LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
12. VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

ARCHITECTURE
LANDSCAPE ARCHITECTURE
ENERGY SERVICES

NSPJ ARCHITECTS, Inc.
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PRAIRIE VILLAGE, KS 66208

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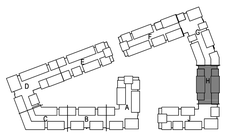
STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

04/28/2023

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS



NORTH

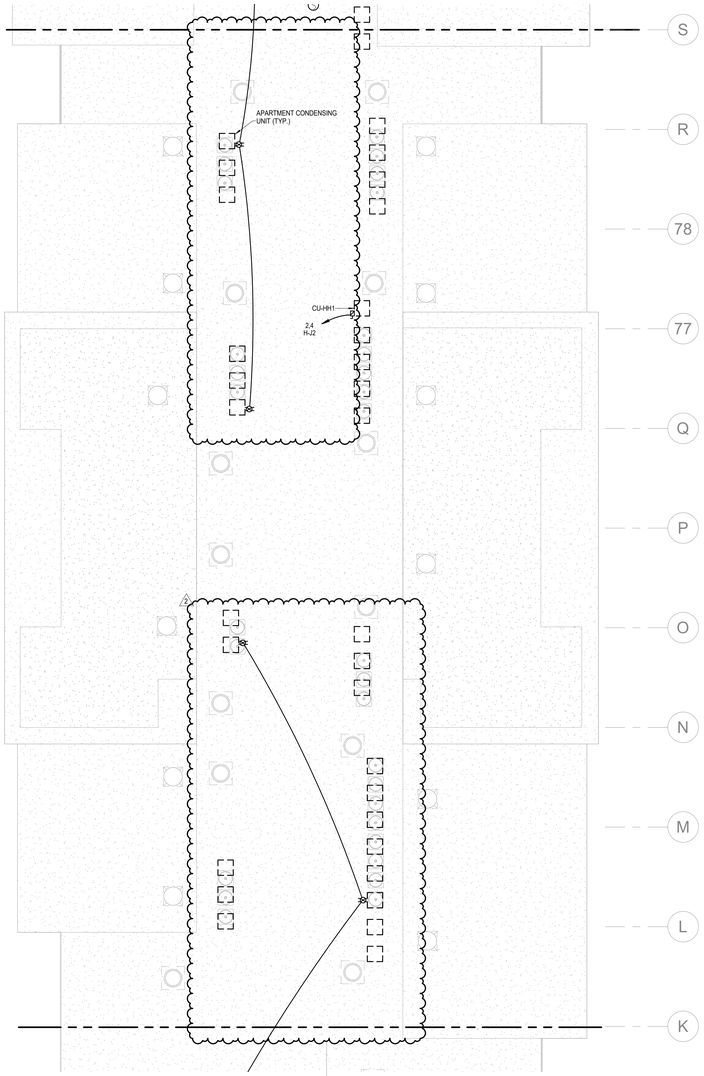
KEY PLAN
NO SCALE

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/
CITY COMMENTS #2
SHEET NAME
SEGMENT H - 2ND & 3RD FLOOR - ELECTRICAL
SHEET NO.
E1.33

5/1/2023 3:49:47 PM

ARCH E1.30" x 42"



1 ROOF PLAN - SEGMENT H

ELECTRICAL
1/8" = 1'-0"

NORTH

2 4TH FLOOR - SEGMENT H

ELECTRICAL
1/8" = 1'-0"

NORTH

NOTES:
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NSPJ ARCHITECTS
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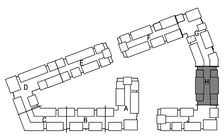

NORTH

KEY PLAN

NO SCALE

△REVISIONS
2 23 0428 ADD 1/CC 2

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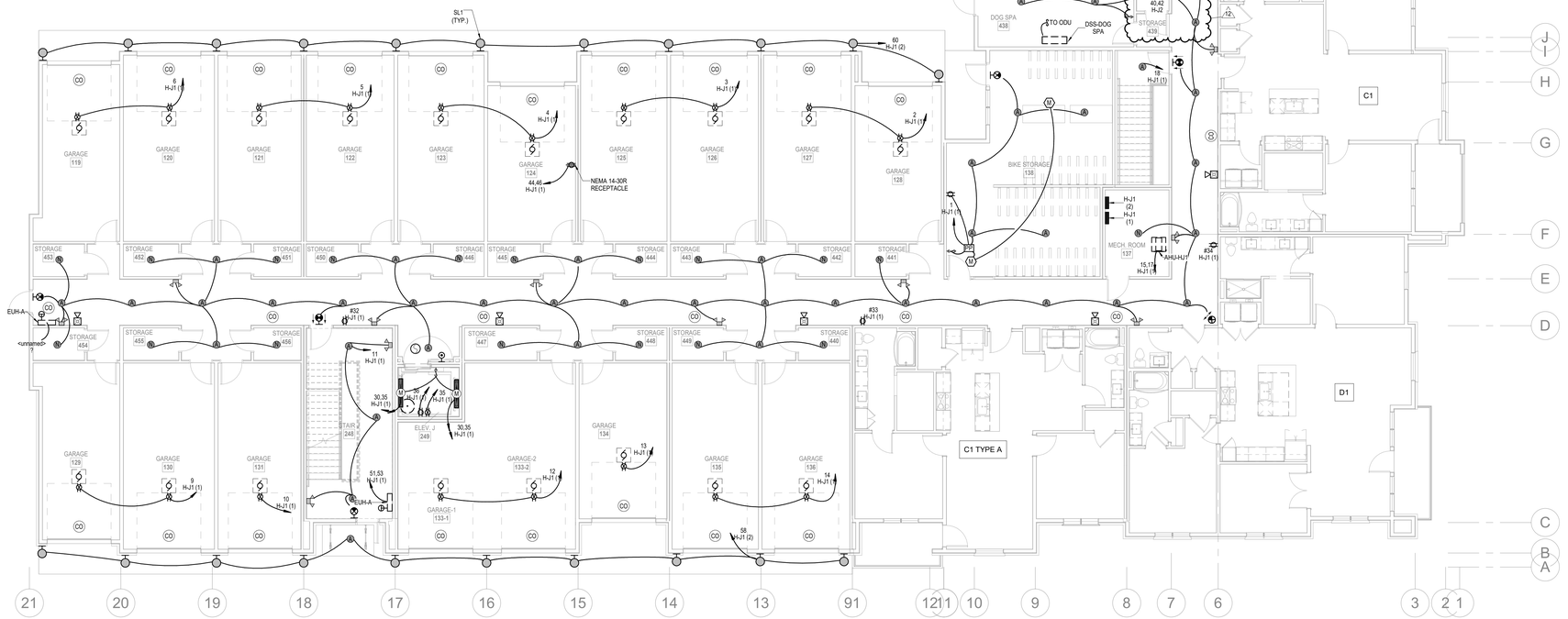
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8826 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/
CITY COMMENTS #2
SHEET NAME
SEGMENT H - 4TH FLOOR & ROOF PLAN - ELECTRICAL
SHEET NO.
E1.34

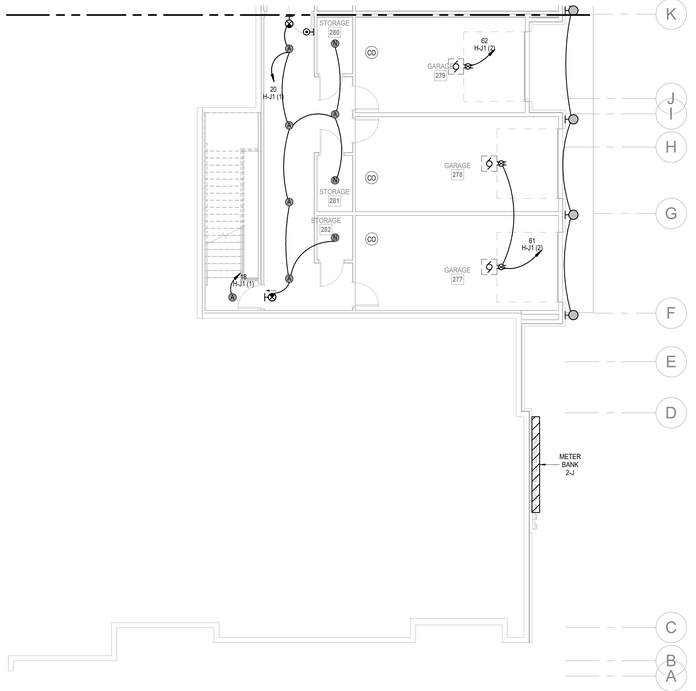
5/1/2023 3:49:50 PM

ARCH E1.35" x 42"



NORTH

1 1ST FLOOR - SEGMENT J
ELECTRICAL
1/8" = 1'-0"



NORTH

2 BASEMENT - SEGMENT J
ELECTRICAL
1/8" = 1'-0"

NOTES:

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2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
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13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.
14. GARAGE DOOR TO OPEN UPON CO DETECTION.

LEGEND:

(1) WP J.B. FOR RADON FAN

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES
NSPJ
ARCHITECTS, Inc.
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6/9/2023

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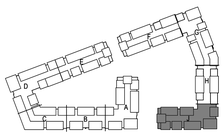

NORTH

KEY PLAN
NO SCALE

△ REVISIONS

2	23.04.05	ADD 1/CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4
12	24-01-19	ASI #8

LS&A
Lastimer 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: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD

5/17/2023
CITY COMMENTS #3

SHEET NAME
SEGMENT J - BASEMENT & 1ST FLOOR - ELECTRICAL

SHEET NO.
E1.35

1/19/2024 11:16:35 AM

ARCH E1.30" x 42"

NORTH

1 2ND FLOOR - SEGMENT J
ELECTRICAL
1/8" = 1'-0"

NORTH

2 3RD FLOOR - SEGMENT J
ELECTRICAL
1/8" = 1'-0"

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04/28/2023

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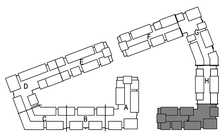

△ REVISIONS
2 23.0428 ADD 1/CC 2

NORTH

KEY PLAN
NO SCALE

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CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 103
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com

LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/28/2023 ADDENDUM 1/ CITY COMMENTS #2

SHEET NAME
SEGMENT J - 2ND & 3RD FLOOR - ELECTRICAL

SHEET NO.
E1.36

5/1/2023 3:45:58 PM

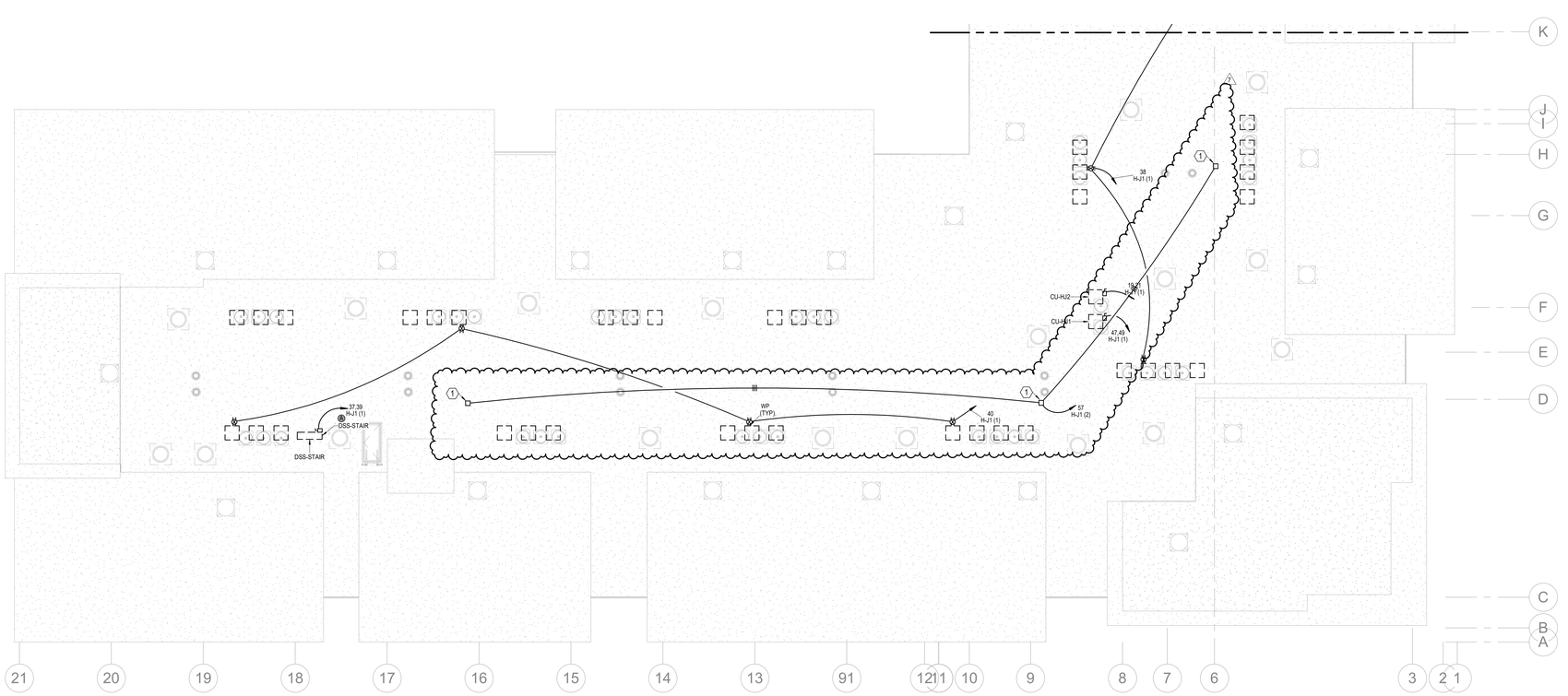
ARCH E1.30" x 42"

NORTH

1 4TH FLOOR - SEGMENT J

ELECTRICAL

1/8" = 1'-0"



NORTH

2 ROOF PLAN - SEGMENT J

ELECTRICAL

1/8" = 1'-0"

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6/9/2023

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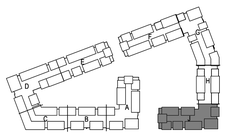
- 03.15.2023 - PERMIT SUBMITTAL



NORTH

KEY PLAN

NO SCALE

△ REVISIONS

2	23.04.26	ASD 1/CC 2	
7	23-07-13	ASI 3	

LS&A
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DATE 03.15.2023
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5/17/2023
CITY COMMENTS #3

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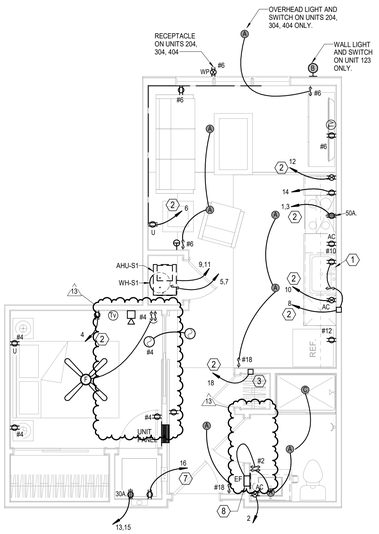
SEGMENT J - 4TH FLOOR & ROOF PLAN - ELECTRICAL

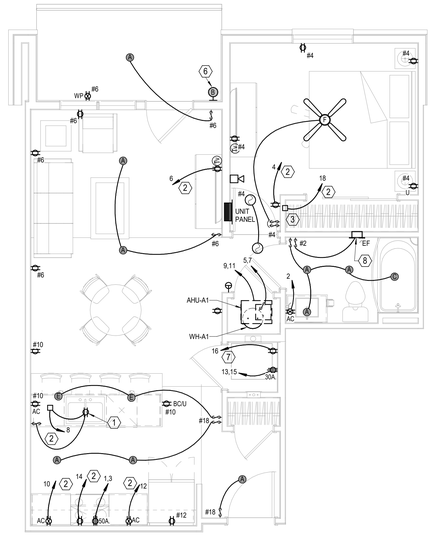
SHEET NO.
E1.37

7/13/2023 4:28:02 PM

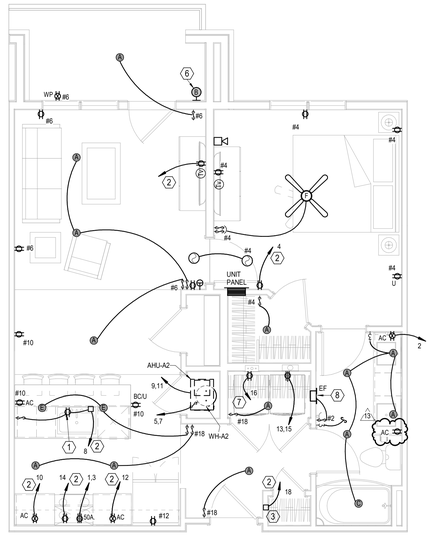
ARCH E1.30" x 42"



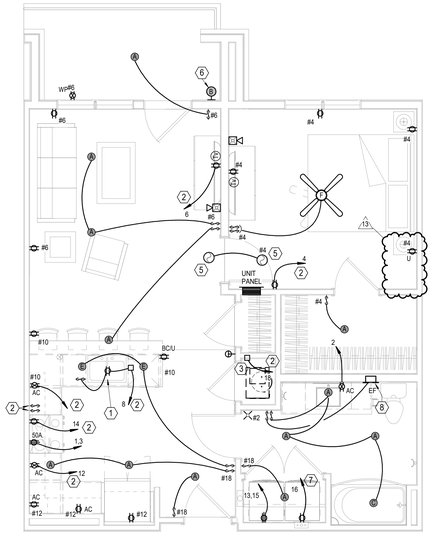
1 UNIT S1
ELECTRICAL
1/4" = 1'-0"



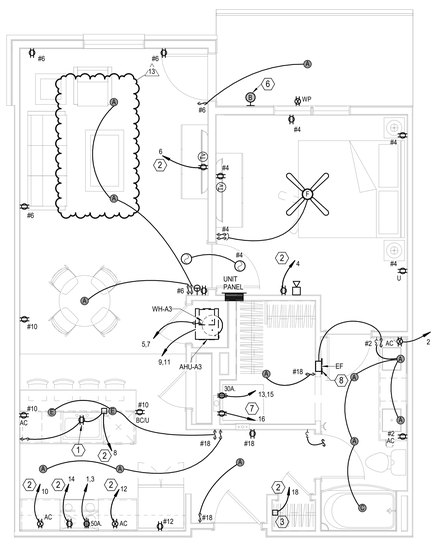
2 UNIT A1
ELECTRICAL
1/4" = 1'-0"



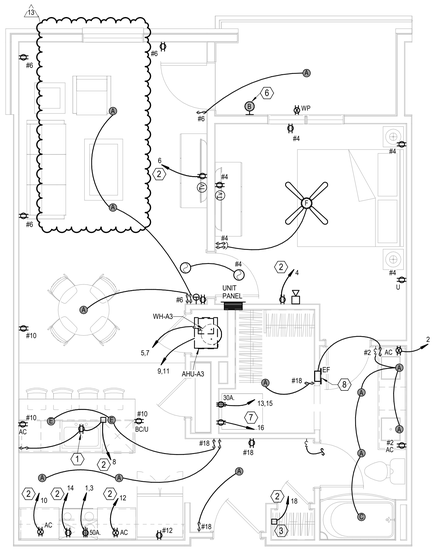
3 UNIT A2
ELECTRICAL
1/4" = 1'-0"



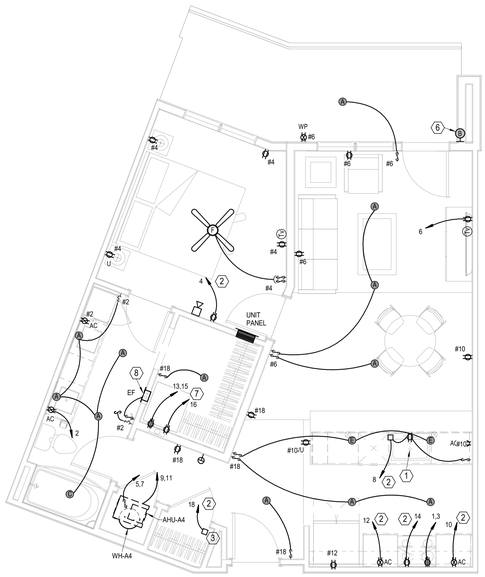
4 UNIT A2 TYPE A
ELECTRICAL
1/4" = 1'-0"



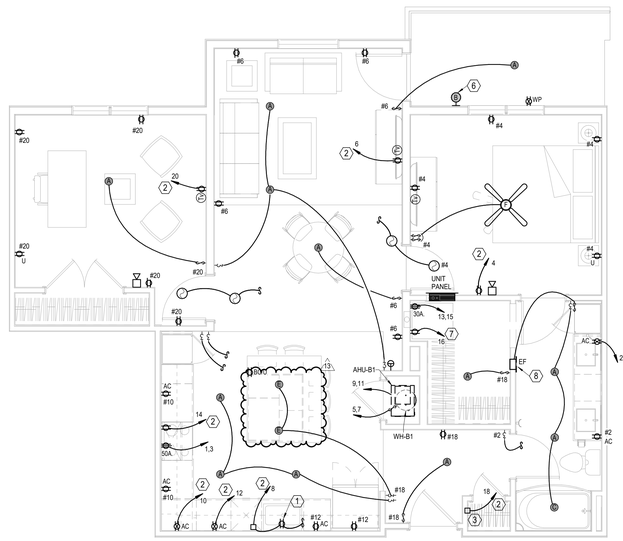
5 UNIT A3
ELECTRICAL
1/4" = 1'-0"



6 UNIT A3 ALT 1
ELECTRICAL
1/4" = 1'-0"



7 UNIT A4
ELECTRICAL
1/4" = 1'-0"



8 UNIT B1
ELECTRICAL
1/4" = 1'-0"

UNIT ELECTRICAL NOTES:

1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (2) = 120V. SM0KE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
8. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
11. ALL RANGES SERVED BY (3) #8 A (1) # 10 AND 50A. RECEPTACLE.
12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CRCUITS.
16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
17. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
18. PROVIDE ALTERNATE FOR ARC-FAULT CIRCUITS AS SHOWN. BASE BID TO HAVE ARC-FUALT ON BEDROOM AND LIVING ROOM CKTS ONLY.

LEGEND:

1. SWITCHED RECEPTABLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. TO GFI BREAKER.
2. PROVIDE ARC-FAULT BREAKER IN PANEL.
3. TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
4. SWITCHES FOR OVERHEAD MW FAN & LIGHT.
5. SMOKE ALARM TO HAVE STROBES.
6. TOP FLOOR UNITS TO RECEIVE WALL SCONE TYPE "B".
7. TO COMBINATION GFI AND ARC FAULT BREAKER.
8. PROVIDE HOT WIRE AND SWITCH LEG TO EXHAUST FAN.

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES
NSPJ
ARCHITECTS, Inc.
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PRAIRIE VILLAGE, KS 66208
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STATE OF MISSOURI
RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER
3/8/2024

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

DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS

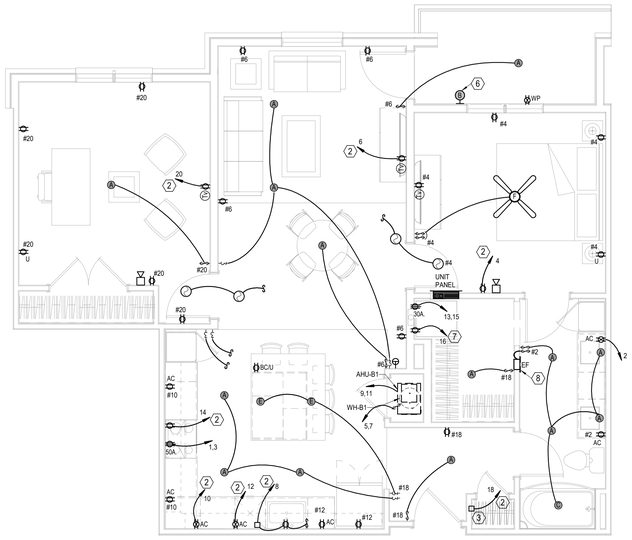
2	23-04-28	ADD 1CC 2
7	23-07-13	ASI 3
8	23-08-11	ASI 4
10	23-09-15	ASI 6
13	24-03-08	ASI #9

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-2874
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

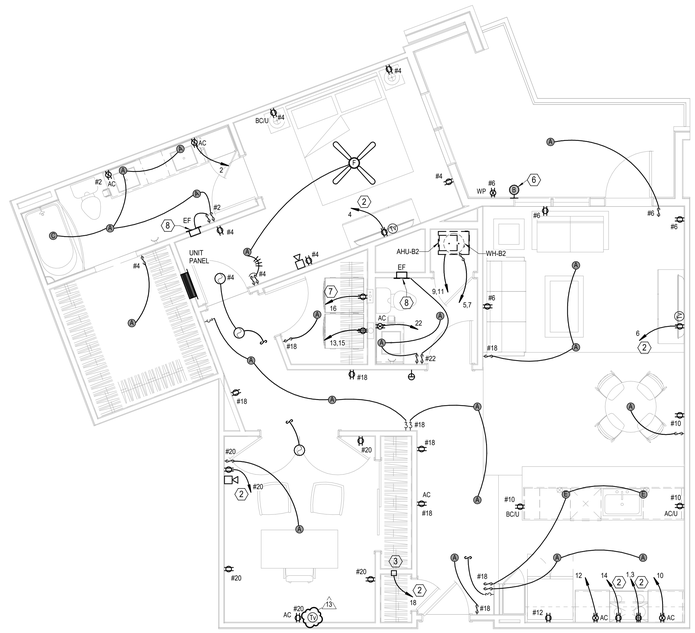
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME UNIT PLANS - ELECTRICAL
SHEET NO. E2.01

3/8/2024 4:27:26 PM

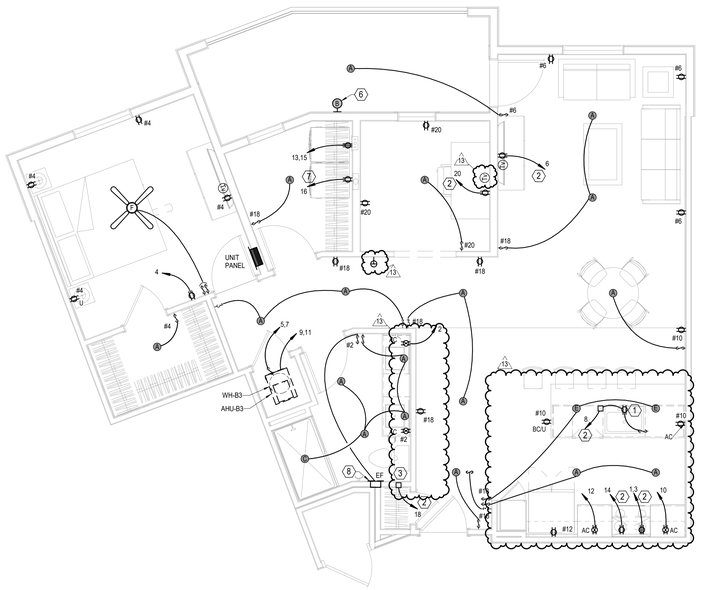
ARCH E1.30" x 42"



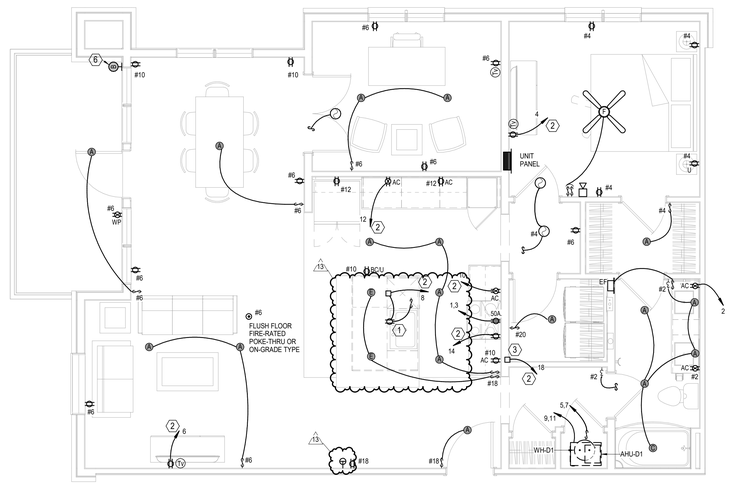
1 UNIT B1 ALT
ELECTRICAL
1/4" = 1'-0"



2 UNIT B2
ELECTRICAL
1/4" = 1'-0"



3 UNIT B3
ELECTRICAL
1/4" = 1'-0"



4 UNIT B4
ELECTRICAL
1/4" = 1'-0"

UNIT ELECTRICAL NOTES:

1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (2) = 120V. SM0KE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
8. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
11. ALL RANGES SERVED BY (3) #8 A (1) # 10 AND 50A. RECEPTACLE.
12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CRCUITS.
16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
17. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
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LEGEND:

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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2
PROFESSIONAL ENGINEER
3/8/2024

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

DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS

2	23 0428	ADD 1CC 2
7	23-07-13	ASI 3
10	23-09-15	ASI 6
13	24-03-08	ASI #9

LS&A
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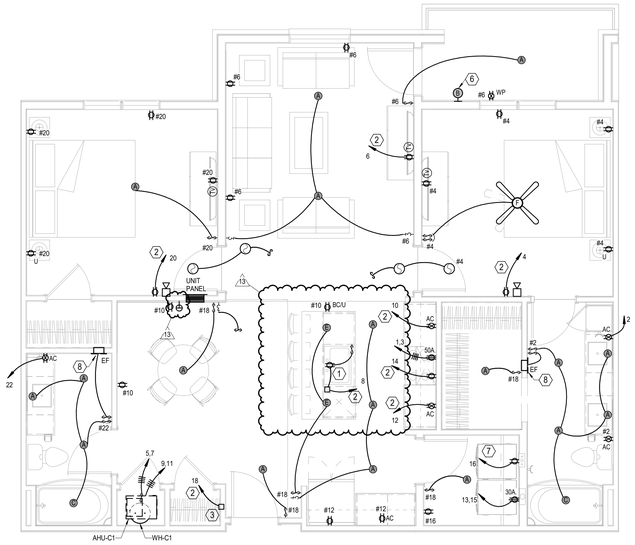
Topeka, Kansas 6614-2874
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

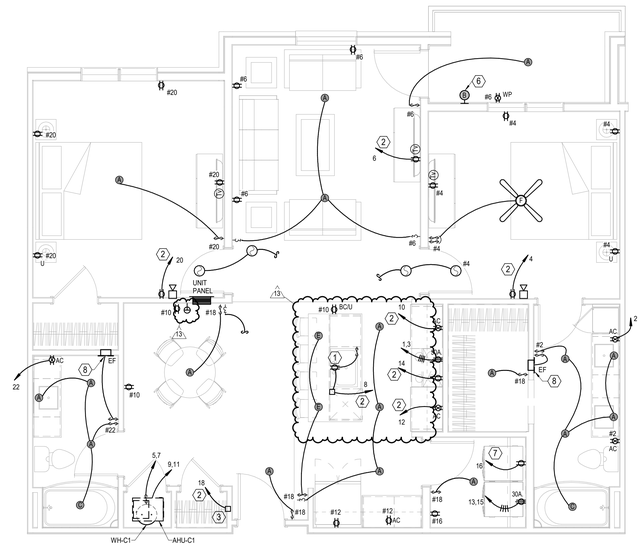
JOB.NO 705921 | DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME UNIT PLANS - ELECTRICAL
SHEET NO. E2.02

3/8/2024 4:27:43 PM

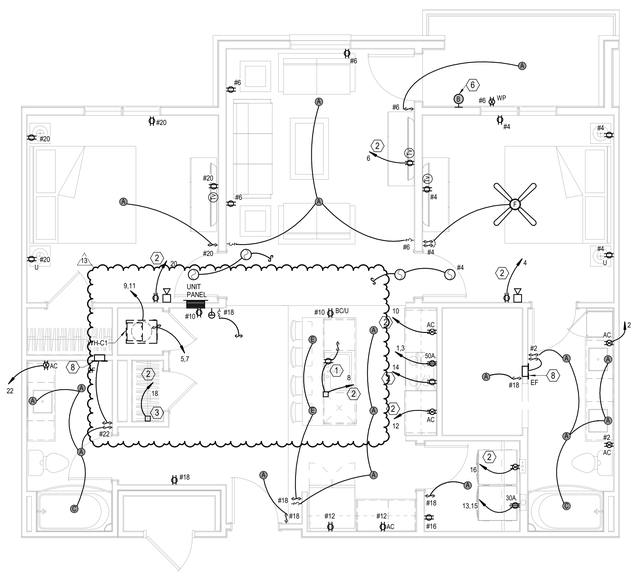
ARCH E1.30" x 42"



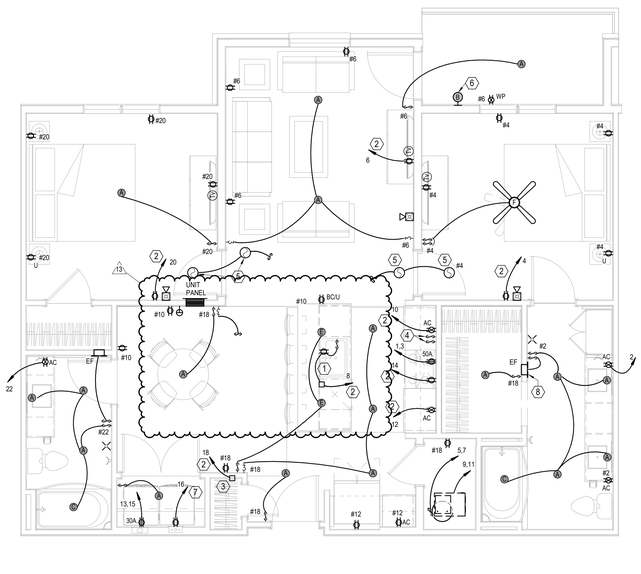
1 UNIT C1
ELECTRICAL
1/4" = 1'-0"



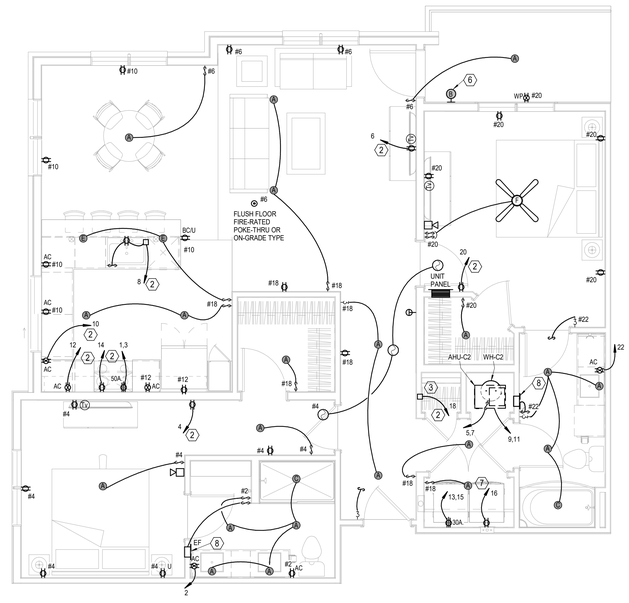
2 UNIT C1 ALT
ELECTRICAL
1/4" = 1'-0"



3 UNIT C1 ALT 2
ELECTRICAL
1/4" = 1'-0"



4 UNIT C1 TYPE A
ELECTRICAL
1/4" = 1'-0"



5 UNIT C2
ELECTRICAL
1/4" = 1'-0"

UNIT ELECTRICAL NOTES:

1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
3. GENERALLY CENTER LIGHT 0N WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (Z) = 120V. SM0KE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
8. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
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12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CRCUITS.
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
3/8/2024

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

DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS

2	23 0428	ADD 1CC 2
7	23-07-13	ASI 3
10	23-09-15	ASI 6
13	24-03-08	ASI #9

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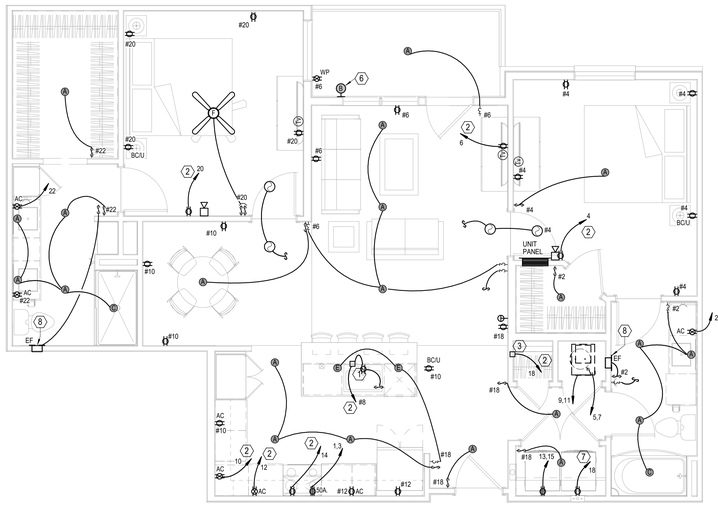
Topeka, Kansas 6614-2874
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

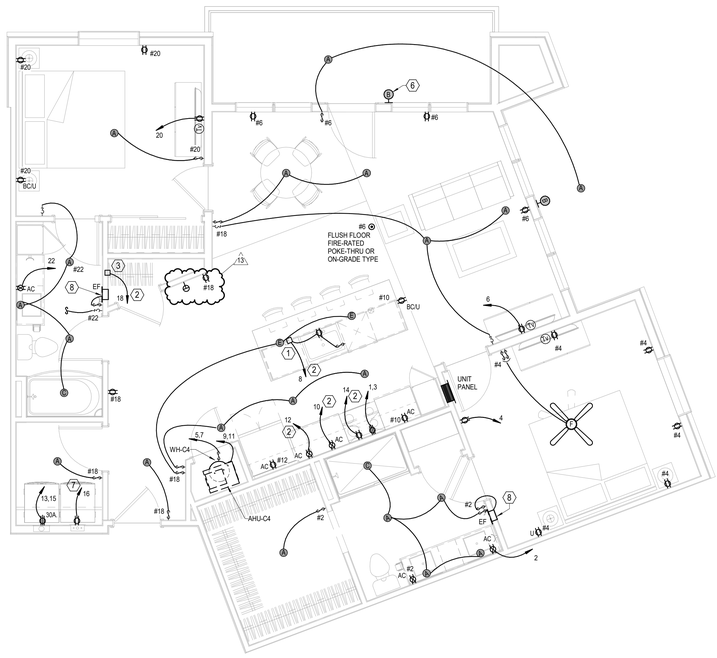
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME UNIT PLANS - ELECTRICAL
SHEET NO. E2.03

3/8/2024 4:28:03 PM

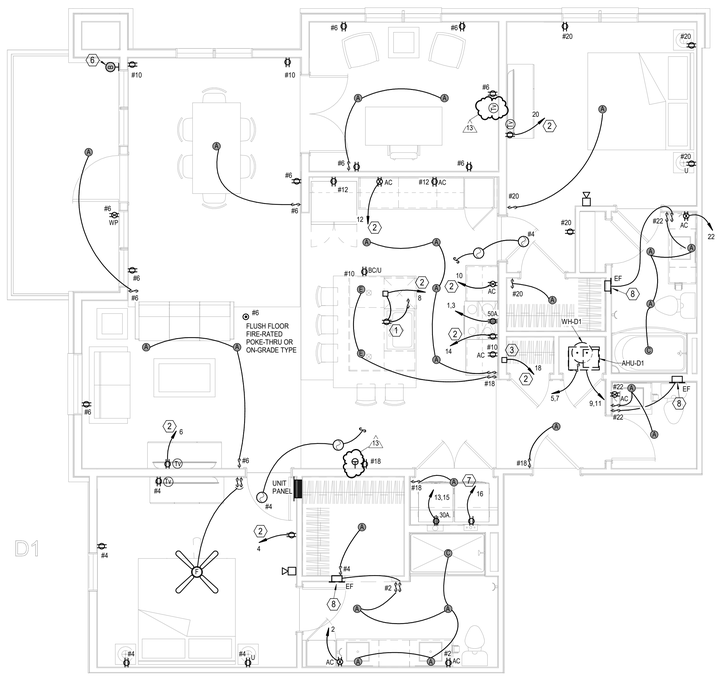
ARCH E1.30" x 42"



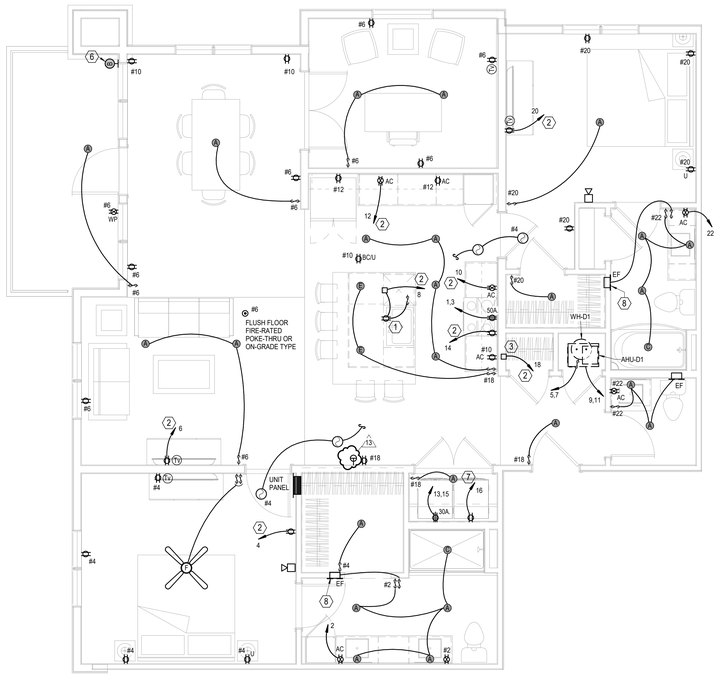
1 **UNIT C3**
ELECTRICAL
1/4" = 1'-0"



2 **UNIT C4**
ELECTRICAL
1/4" = 1'-0"



3 **UNIT D1**
ELECTRICAL
1/4" = 1'-0"



4 **UNIT D1 ALT 2**
ELECTRICAL
1/4" = 1'-0"

UNIT ELECTRICAL NOTES:
1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (2) = 120V. SM0KE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
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2	23-0428	ADD 1CC 2
7	23-07-13	ASI 3
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13	24-03-08	ASI #9

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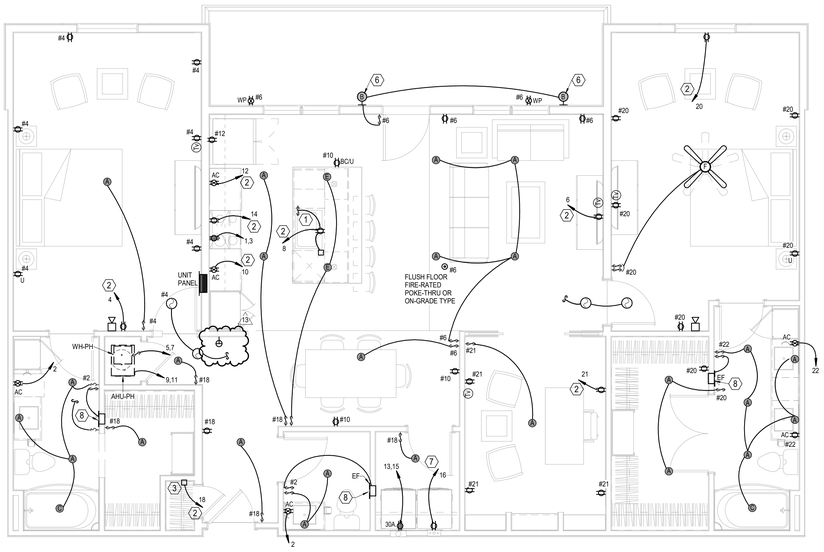
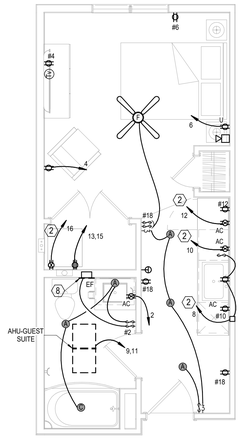
JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME UNIT PLANS - ELECTRICAL
SHEET NO. E2.04

3/8/2024 4:28:18 PM

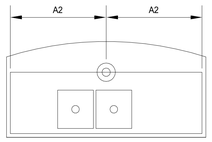
ARCH E1.30" x 42"



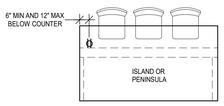
1 PENTHOUSE
ELECTRICAL
1/4" = 1'-0"



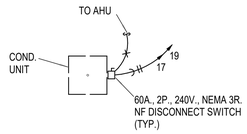
2 UNIT - GUEST SUITE
ELECTRICAL
1/4" = 1'-0"



3 KITCHEN ISLAND LIGHTING DETAIL
NOT TO SCALE



4 ISLAND RECEPTALCE DETAIL
NOT TO SCALE



5 TYPICAL COND. UNIT DETAIL
NOT TO SCALE

UNIT ELECTRICAL NOTES:

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2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (2) = 120V. SMOKE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
8. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
11. ALL RANGES SERVED BY (3) #8 A (1) # 10 AND 50A. RECEPTACLE.
12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CRCUITS.
16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
17. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
18. PROVIDE ALTERNATE FOR ARC-FAULT CIRCUITS AS SHOWN. BASE BID TO HAVE ARC-FUALT ON BEDROOM AND LIVING ROOM CKTS ONLY.

LEGEND:

1. SWITCHED RECEPTABLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. TO GFI BREAKER.
2. PROVIDE ARC-FAULT BREAKER IN PANEL.
3. TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
4. SWITCHES FOR OVERHEAD MW FAN & LIGHT.
5. SMOKE ALARM TO HAVE STROBES.
6. TOP FLOOR UNITS TO RECEIVE WALL SCONE TYPE "B".
7. TO COMBINATION GFI AND ARC FAULT BREAKER.
8. PROVIDE HOT WIRE AND SWITCH LEG TO EXHAUST FAN.

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES
NSPJ ARCHITECTS
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
NSPJARCH.COM
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
3/8/2024

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

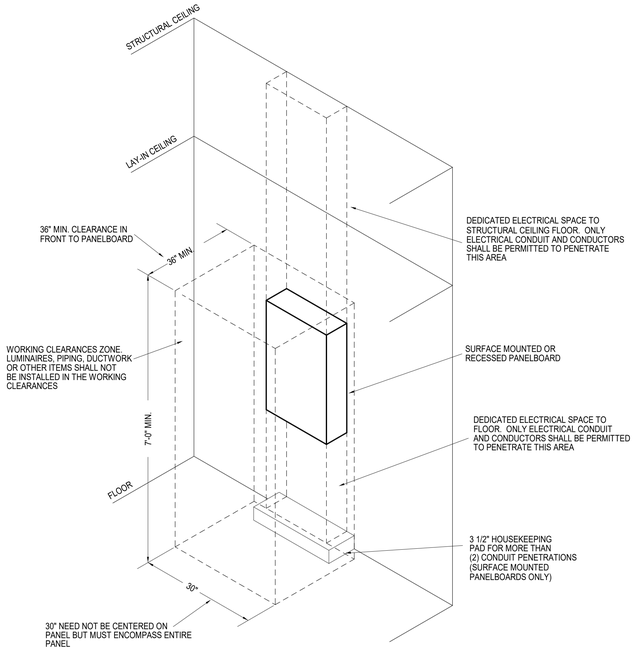
2	23-04-28	ADD 1CC 2
7	23-07-13	ASI 3
10	23-09-15	ASI 6
13	24-03-08	ASI #9

LS&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: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME UNIT PLANS - ELECTRICAL
SHEET NO. E2.05

3/6/2024 4:29:26 PM

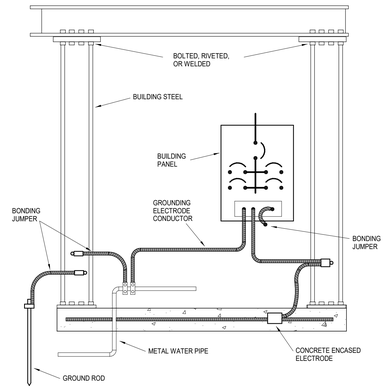
ARCH E1 30" x 42"



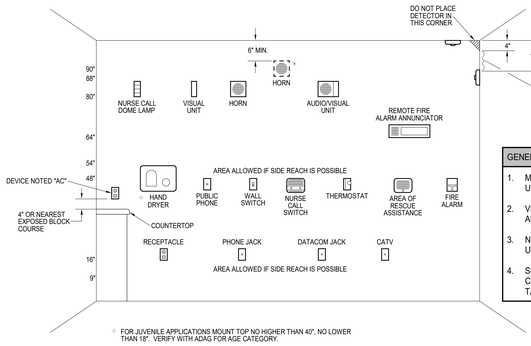
NOTE:

COORDINATE ALL WORK WITH OTHER TRADES. MAINTAIN ALL OTHER NEC CLEARANCES AND REQUIREMENTS.

1 TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



2 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



+ FOR JUVENILE APPLICATIONS MOUNT TOP NO HIGHER THAN 40", NO LOWER THAN 18". VERIFY WITH ADAG FOR AGE CATEGORY.

GENERAL NOTES:

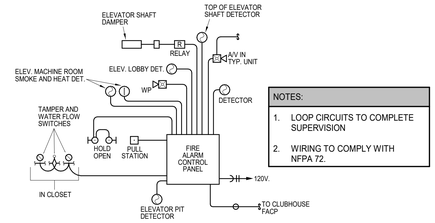
1. MOUNT DEVICES AT HEIGHT INDICATED UNLESS NOTED OTHERWISE ON PLANS.
2. VERIFY MOUNTING IN SIDE REACH AREAS WITH ARCHITECT.
3. NOT ALL DEVICES SHOWN MAY BE UTILIZED ON PROJECT.
4. SEE ARCHITECTURAL DRAWINGS FOR CONFLICTS WITH CHALK BOARDS, TACK BOARDS, AND CASEWORK.

DEVICE MOUNTING NOTES:

1. VISUAL UNIT
   DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
2. AUDIO UNIT
   DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
   * TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 6" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.
3. AUDIO/VISUAL UNIT
   DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
4. PULL STATION
   HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH).

ELECTRICAL DEVICE MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

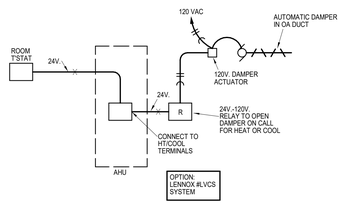
3 ELECTRICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



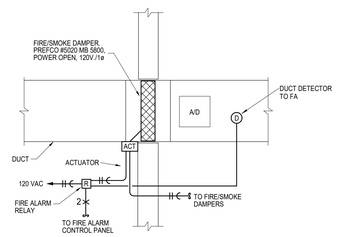
NOTES:

1. LOOP CIRCUITS TO COMPLETE SUPERVISION
2. WIRING TO COMPLY WITH NFPA 72.

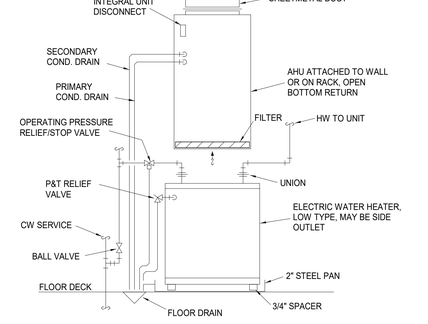
4 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



5 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NOT TO SCALE

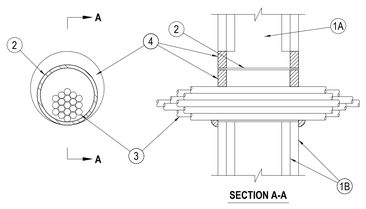


6 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



7 APARTMENT AHU/WATER HEATER
NOT TO SCALE

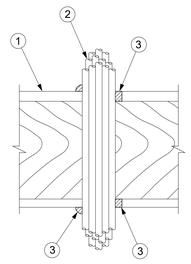
8 ELEVATOR DETAIL
NOT TO SCALE



NOTES AND LEGENDS:

1. 1. Wall Assembly — The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Steel framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board - Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
   Metallic Sleeve — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, NZs. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in.
2. (457 mm) beyond the wall surfaces.
   Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm) Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
3. A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
   C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of ½ in. (13 mm).
   D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
   E. Through Penetrating Product - Three copper conductor No. 8 AWG . Metal-Clad Cable+.
   AFC CABLE SYSTEMS INC:
   F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
   G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.
   H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable. Through Penetrating Product* - Any cables. Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
   Fill, Void or Cavity Material* — Sealant or Putty — Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating . An additional 1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. -- CP601S, CP606, FS-One Sealants or CP618 Putty
   *Bearing the UL Classification Mark
4. +Bearing the UL Listing Mark

9 FIRE RATED PENETRATION DETAIL
NO SCALE — SYSTEM WL-3065



NOTES AND LEGENDS:

1. 1. Floor-Ceiling Assembly - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
   A. Flooring System - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 3 in.
   B. Wood Joists* - Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
   C. Gypsum Board* - Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.
   Chase Wall - (Optional, Not Shown) - The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction
1A. features:
   A. Studs - Nom 2 by 4 in., 2 by 6 in. or double nom 2 by 4 in. lumber studs.
   B. Sole Plate - Nom 2 by 4 in., 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
   C. Top Plate - The double top plate shall consist of two nom 2 by 4 in., two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
   D. Gypsum Board* - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.
   Cables - Aggregate cross-sectional area of cable in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. Cables to be rigidly supported on both sides of the floor-ceiling assembly. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 150 pair No. 24 AWG telephone cable with PVC insulation and jacket.
2. B. Max 2/C No. 10 with ground Type NM nonmetallic sheathed (Romex) cable with PVC insulation and jacket.
   C. Max 3/C with ground 2/0 AWG aluminum SER cable with PVC insulation and jacket.
   D. Max 3/C No. 10 AWG copper conductor steel clad cable.
   E. Max 24 fiber optic cable.
   F. RG 59U coaxial cable.
   G. CAT 5 data cable.
   Fill, Void or Cavity Materials*-Sealant - Min 3/4 in. thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. thickness of sealant applied within the annulus flush with the bottom surface of gypsum board or lower top plate. A min 1/2 in. diameter bead of sealant applied at the cable bundle/subflooring or sole plate interface and the cable bundle/gypsum board or top plate interface at point contact locations.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC - CP 606 Flexible Firestop Sealant
3.
   *Bearing the UL Classification Mark

10 FIRE RATED PENETRATION DETAIL
NO SCALE — SYSTEM FC-3074

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LANDSCAPE ARCHITECTURE
ENERGY SERVICES
P. 913.831.1415
F. 913.831.1563
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3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI — RICHARD R. BEARDMORE — NUMBER A-2007018766 — PROFESSIONAL ENGINEER
03/15/2023

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921 — DATE 03.15.2023
DRAWN BY LSA CAD
4/11/2023 CITY COMMENTS
SHEET NAME ELECTRICAL DETAILS
SHEET NO. E3.01

4/13/2023 9:08:18 PM

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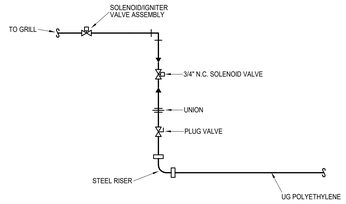
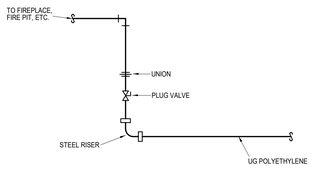


PIPING SCHEMATIC



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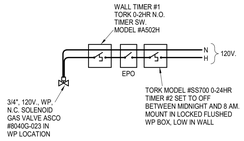
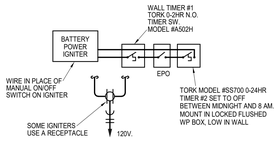
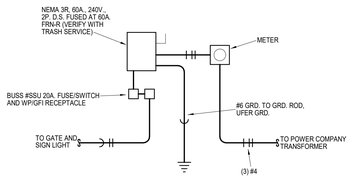


CONTROL SCHEMATIC
(GRILL)

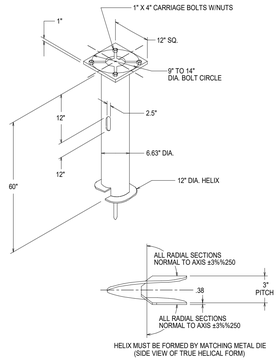


CONTROL SCHEMATIC
(FIRE PIT)

1 GAS GRILL/FIRE PIT DETAIL
NOT TO SCALE



2 COMPACTOR ELECTRICAL SERVICE DETAIL
NOT TO SCALE



HELIX MUST BE FORMED BY MATCHING METAL DIE
(SIDE VIEW OF TRUE HELICAL FORM)

3 LIGHT POLE FOUNDATION DETAIL
NOT TO SCALE

-NOTES-

1. FINISH: HOT DIP GALVANIZE PER ASTM-A153 (LATEST REVISION).
2. BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (±1%%250) AND HOLE CENTERLINE CONCENTRIC (.125 DIA) TO SHAFT AXIS.
3. STENCIL MIN. 1/2 IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (± .125 FIM) AND IN LINE (±2%%250).
5. FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE.
6. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
7. FLAMECUT IRREGULARITIES PERMISSIBLE. (1) VALLEYS NOT TO EXCEED 3/32 IN. BELOW NOMINAL SURFACES LEVEL, (2) PEAKS OR RIDGES NOT TO EXCEED 3/32 IN. ABOVE NOMINAL SURFACE LEVEL, (3) NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
9. ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:

   BASEPLATE: ASTM A36-(LATEST REVISION) HOT ROLLED STEEL PLATE, (CONFORM TO AASHTO TECH. BUL. #270)

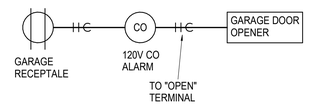
   SHAFT: STEEL PIPE PIPLES, SEAMLESS OR STRAIGHT WELDED, GRADE-B PER ASTM-A53-(LATEST REVISION) MATERIAL STEEL PIPE TYPE E OR S, GRADE-B PER ASTM A53.

   HELIX: ASTM A635 (LATEST REVISION) HOT ROLLED STEEL.

   PILOT POINT: ASTM A575 (LATEST REVISION) STEEL BAR.

   BOLTS: CARR BOLT PER ANSI B-18.2.1,SAE J429 GRADE-5.

10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 1/2" LETTERS AND DATE CODE IN 1/4" LETTERS.



SEQUENCE:
GARAGE DOOR
TO OPEN WHEN
CO SENSOR IS
TRIPPED

4 GARAGE CARBON MONOXIDE SENSOR DOOR CONNECTION DETAIL
NOT TO SCALE

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3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
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• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

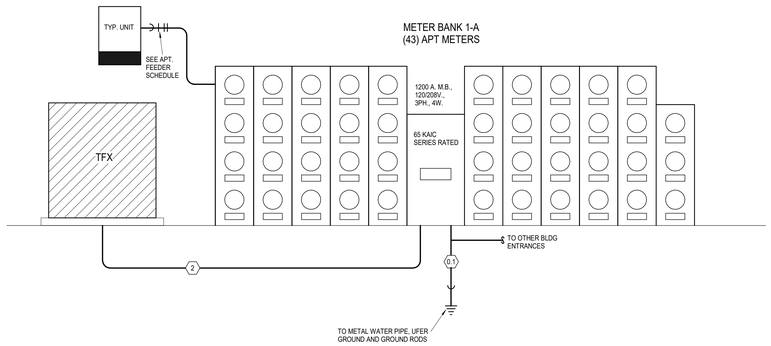
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
4/11/2023 CITY COMMENTS
SHEET NAME ELECTRICAL DETAILS
SHEET NO. E3.02

4/13/2023 5:08:19 PM

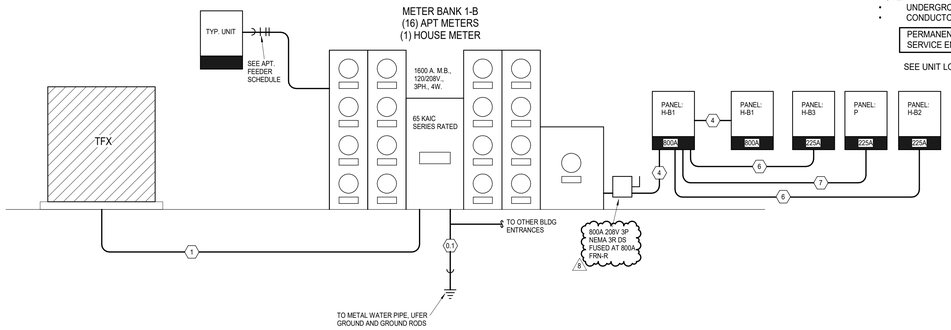
ARCH E1.30" x 42"

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



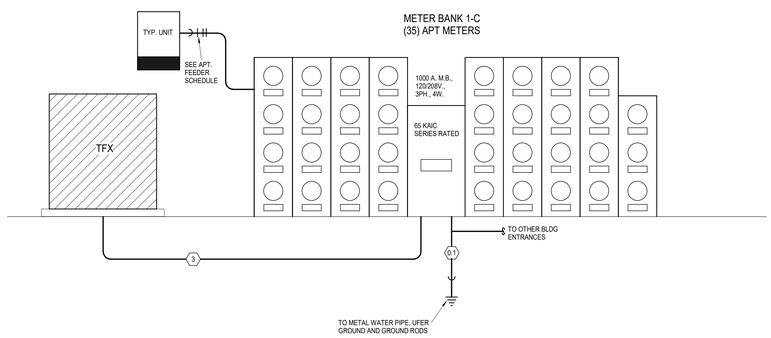
1 METER BANK 1-A ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



2 METER BANK 1-B ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



3 METER BANK 1-C ELECTRICAL RISER
NOT TO SCALE

Unit Load Calculation - Complete Analysis

Unit Type	General: Area Calculation Sq. Ft.	Load per Sq Ft	Total Per Sq Ft.	General Load: 2 Small Appliance Circuits	Dishwasher	Disposer	Dryer	Microwave	Range	Oven	Combined Oven Range	Washer	Water Heater	Total General Load	NEC 220-84 Calculation: Heater Calculation Heater	NEC Diversification	Heater Load	General Load Calculation: First 10KVA at 100%	Remainder at 40%	Total Load	Voltage	Load for Unit Service (AMPS)	Total Connected Load	Breaker Size
A1	660	3 VA	1980 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24970 VA	3700 VA	65.00%	2405 VA	10000 VA	5988 VA	18393 VA	208 V	88.43	28670 VA	100
A2	660	3 VA	1980 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24970 VA	3700 VA	65.00%	2405 VA	10000 VA	5988 VA	18393 VA	208 V	88.43	28670 VA	100
A2 TYPE A	660	3 VA	1980 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24970 VA	3700 VA	65.00%	2405 VA	10000 VA	5988 VA	18393 VA	208 V	88.43	28670 VA	100
A3	730	3 VA	2190 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25180 VA	3700 VA	65.00%	2405 VA	10000 VA	6072 VA	18477 VA	208 V	88.83	28880 VA	100
A3 ALT	730	3 VA	2190 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25180 VA	3700 VA	65.00%	2405 VA	10000 VA	6072 VA	18477 VA	208 V	88.83	28880 VA	100
A4	680	3 VA	2040 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25030 VA	3700 VA	65.00%	2405 VA	10000 VA	6012 VA	18417 VA	208 V	88.54	28730 VA	100
B1	970	3 VA	2910 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25900 VA	5600 VA	65.00%	3640 VA	10000 VA	6360 VA	20000 VA	208 V	96.15	31500 VA	100
B1 ALT	1000	3 VA	3000 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25990 VA	5600 VA	65.00%	3640 VA	10000 VA	6396 VA	20036 VA	208 V	96.33	31590 VA	100
B2	1100	3 VA	3300 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26290 VA	5600 VA	65.00%	3640 VA	10000 VA	6516 VA	20156 VA	208 V	96.90	31890 VA	100
B3	1000	3 VA	3000 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25990 VA	5600 VA	65.00%	3640 VA	10000 VA	6396 VA	20036 VA	208 V	96.33	31590 VA	100
B4	1050	3 VA	3150 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26140 VA	5600 VA	65.00%	3640 VA	10000 VA	6456 VA	20096 VA	208 V	96.62	31740 VA	100
C1	1080	3 VA	3240 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26230 VA	7500 VA	65.00%	4875 VA	10000 VA	6492 VA	21367 VA	208 V	102.73	33730 VA	110
C1 ALT	1080	3 VA	3240 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26230 VA	7500 VA	65.00%	4875 VA	10000 VA	6492 VA	21367 VA	208 V	102.73	33730 VA	110
C1 ALT 2	1080	3 VA	3240 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26230 VA	7500 VA	65.00%	4875 VA	10000 VA	6492 VA	21367 VA	208 V	102.73	33730 VA	110
C1 TYPE A	1080	3 VA	3240 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26230 VA	7500 VA	65.00%	4875 VA	10000 VA	6492 VA	21367 VA	208 V	102.73	33730 VA	110
C2	1160	3 VA	3480 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26470 VA	7500 VA	65.00%	4875 VA	10000 VA	6588 VA	21463 VA	208 V	103.19	33970 VA	110
C3	1150	3 VA	3450 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26440 VA	7500 VA	65.00%	4875 VA	10000 VA	6576 VA	21451 VA	208 V	103.13	33940 VA	110
C4	1175	3 VA	3525 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	26515 VA	7500 VA	65.00%	4875 VA	10000 VA	6606 VA	21481 VA	208 V	103.27	34015 VA	110
D1	1440	3 VA	4320 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	27310 VA	7500 VA	65.00%	4875 VA	10000 VA	6924 VA	21799 VA	208 V	104.80	34810 VA	110
D1 ALT 2	1430	3 VA	4290 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	27280 VA	7500 VA	65.00%	4875 VA	10000 VA	6912 VA	21787 VA	208 V	104.75	34780 VA	110
GS	320	3 VA	960 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	23950 VA	3700 VA	65.00%	2405 VA	10000 VA	5580 VA	17985 VA	208 V	86.47	27650 VA	100
PH	1500	3 VA	4500 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	27490 VA	7500 VA	65.00%	4875 VA	10000 VA	6996 VA	21871 VA	208 V	105.15	34990 VA	110
S1	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100

FEEDER SCHEDULE

MARK	OCP	SETS	NO. COND.	SIZE ALUM.	SIZE GRD.	CONDUIT
0.1	0 A	1	1		3/0 CU	2"
1	1600 A	5	4	600 KCMIL		4"
2	1200 A	4	4	500 KCMIL		3"
3	1000 A	3	4	500 KCMIL		3"
4	800 A	3	4	400 KCMIL	#3/0	3"
5	400 A	2	4	4/0 KCMIL	#2	3"
6	225 A	1	4	300 KMCIL	#2	3"
7	100 A	1	4	#1/0	#4	2"

APARTMENT PANEL FEEDER - TYPE SER ALUMINUM	
100A.: 2 - 2 - 2 - 6 UP TO 120 FT. 1 - 1 - 1 - 4 UP TO 150 FT. 0 - 0 - 0 - 4 UP TO 185 FT. 2/0 - 2/0 - 2/0 - 3 UP TP 235 FT.	110A.: 1 - 1 - 1 - 4 UP TO 135 FT. 0 - 0 - 0 - 4 UP TP 170 FT. 2/0 - 2/0 - 2/0 - 3 UP TO 215 FT.

NOTE:
- UNDERGROUND CONDUIT MATERIAL = SCH. 40 PVC.
- CONDUCTOR INSULATION = THHN/THWN.

PERMANENT PLACARDS SHALL BE POSTED AT EACH EXTERIOR SERVICE ENTRANCE AND METER BANK TO DISPLAY AREA SERVED.

SEE UNIT LOAD CALCS FOR APT PANEL BREAKER, 100A/2P, 110A/2P.

MULTI-FAMILY BUILDING LOAD ANALYSIS BLDG 1

Panel / Unit Type (Connected Load)	Total Units / Unit Quantity	Total Connected Load / Sum of Units	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps
METER BANK 1-A	43	1,367,095 VA	1367	27%	369	1025	0	1025
A1-(28,670 VA)	3	86010 VA						
A2-(28,670 VA)	4	114680 VA						
A3 ALT-(28,880 VA)	6	173280 VA						
B1-(31,500 VA)	3	94500 VA						
B4-(31,740 VA)	1	31740 VA						
C1-(33,730 VA)	4	134920 VA						
C1 ALT-(33,730 VA)	4	134920 VA						
C2-(33,970 VA)	7	237790 VA						
C3-(33,940 VA)	4	135760 VA						
D1-(34,810 VA)	3	104430 VA						
PH-(34,990 VA)	1	34990 VA						
S1-(28,025 VA)	3	84075 VA						
METER BANK 1-B	16	509,540 VA	510	39%	199	552	700	1252
A3-(28,880 VA)	6	173280 VA						
C1-(33,730 VA)	5	168650 VA						
GUEST SUITE-(27,650 VA)	1	27650 VA						
PH-(34,990 VA)	4	139960 VA						
METER BANK 1-C	35	1,088,760 VA	1089	30%	327	907	0	907
A1-(28,670 VA)	4	114680 VA						
A3-(28,880 VA)	7	202160 VA						
B1 ALT-(31,590 VA)	4	126360 VA						
B2-(31,890 VA)	4	127560 VA						
C1-(33,730 VA)	8	269840 VA						
C4-(34,015 VA)	4	136060 VA						
S1-(28,025 VA)	4	112100 VA						
METER BANK 1-D	47	1,438,345 VA	1438	26%	374	1039	350	1389
A1-(28,670 VA)	3	86010 VA						
A2-(28,670 VA)	7	200690 VA						
A2 TYPE A-(28,670 VA)	1	28670 VA						
A3-(28,880 VA)	9	259920 VA						
A3 ALT-(28,880 VA)	6	173280 VA						
B1-(31,500 VA)	3	94500 VA						
C1-(33,730 VA)	7	236110 VA						
C3-(33,940 VA)	4	135760 VA						
D1 ALT 2-(34,780 VA)	3	104340 VA						
PH-(34,990 VA)	1	34990 VA						
S1-(28,025 VA)	3	84075 VA						
METER BANK 1-E	38	1,190,875 VA	1191	29%	345	959	0	959
A1-(28,670 VA)	3	86010 VA						
A2-(28,670 VA)	1	28670 VA						
A3-(28,880 VA)	10	288800 VA						
B1-(31,500 VA)	3	94500 VA						
C1-(33,730 VA)	9	303570 VA						
C1 ALT 2-(33,730 VA)	1	33730 VA						
C1 TYPE A-(33,730 VA)	1	33730 VA						
C2-(33,970 VA)	7	237790 VA						
S1-(28,025 VA)	3	84075 VA						

MULTI-FAMILY BUILDING LOAD ANALYSIS BLDG 2

Panel / Unit Type (Connected Load)	Total Units / Unit Quantity	Total Connected Load / Sum of Units	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps
METER BANK 2-F	34	1,031,045 VA	1031	30%	309	859	350	1209
A1-(28,670 VA)	3	86010 VA						
A2-(28,670 VA)	3	86010 VA						
A3-(28,880 VA)	9	259920 VA						
A3 ALT-(28,880 VA)	4	115520 VA						
B1-(31,500 VA)	3	94500 VA						
C1-(33,730 VA)	2	67460 VA						
C1 ALT 2-(33,730 VA)	1	33730 VA						
C2-(33,970 VA)	6	203820 VA						
S1-(28,025 VA)	3	84075 VA						
METER BANK 2-G	45	1,432,390 VA	1432	27%	387	1074	0	1074
A2-(28,670 VA)	5	143350 VA						
A2 TYPE A-(28,670 VA)	2	57340 VA						
A3-(28,880 VA)	3	86640 VA						
A3 ALT-(28,880 VA)	4	115520 VA						
A4-(28,730 VA)	3	86190 VA						
B3-(31,590 VA)	4	126360 VA						
C1-(33,730 VA)	10	337300 VA						
C1 ALT-(33,730 VA)	4	134920 VA						
C1 TYPE A-(33,730 VA)	1	33730 VA						
C3-(33,940 VA)	3	101820 VA						
D1-(34,810 VA)	4	139240 VA						
PH-(34,990 VA)	2	69980 VA						
METER BANK 2-H	30	922,860 VA	923	33%	305	846	0	846
A1-(28,670 VA)	4	114680 VA						
A3 ALT-(28,880 VA)	10	288800 VA						
C1-(33,730 VA)	10	337300 VA						
PH-(34,990 VA)	2	69980 VA						
S1-(28,025 VA)	4	112100 VA						
METER BANK 2-J	33	1,083,060 VA	1083	31%	336	933	400	1333
A2-(28,670 VA)	3	86010 VA						
A3-(28,880 VA)	3	86640 VA						
B1-(31,500 VA)	3	94500 VA						
C1-(33,730 VA)	10	337300 VA						
C1 TYPE A-(33,730 VA)	1	33730 VA						
C2-(33,970 VA)	6	203820 VA						
C3-(33,940 VA)	3	101820 VA						
D1-(34,810 VA)	4	139240 VA						

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
A	Disk Light	Halo	SLD612/8027/WH	jb/surface	white	1200 Lumen 2700K 15W LED	Wet Location
B	Patio Sconce		SEE FINISH SCHEDULE	wall	Black	1-10W LED	Wet Location
C	Shower Disk Light		SEE FINISH SCHEDULE	jb/surface	white	600 Lumen 2700K 10W LED	Wet Location
D	Vanity Sconce		SEE FINISH SCHEDULE	wall	br. Nickel	1740 Lumen 24W LED	
E	Kitchen Pendant		SEE FINISH SCHEDULE	jb/surface		1-13W 3000K LED	
F	5-blade fan, 3-spd, rev. w/globe		SEE FINISH SCHEDULE	surface	br. Nickel	2-8W LED	Energy Star Rated
G	NOT USED						
H	NOT USED						
J				jb/surface	CONFIRM	1500 Lumen 3000K 20W	
K	Exterior Sconce		CONFIRM WITH OWNER	wall	black	1-10W LED	Wet Location
M	Vapor Tight Strip	Lithonia	CSVT-L48-4000LM-MVOLT-35K-80CRI-IE7WCP	surface	white	4000 Lumen 3500K LED	With 2HR Battery
N	Surface Downlight	Satco	62-1312	jb/surface	white	1050 Lumen 3000k 15W	
S	Strip Light	Lithonia	CSS-L48-4000LM-MVOLT-40K-80CRI	surface	white	4000 Lumen 4000K LED	
S1	Strip Light	Lithonia	CSS-L48-4000LM-MVOLT-40K-80CRI	surface	white	4000 Lumen 4000K LED	With 2HR Battery
X1	Exit	Progress	PETPE-UR-30-RC	surface	white/red	1.5W LED	
X2	Exit w/heads	Progress	PECUE-UR-30-RC	surface	white/red	1.5W LED	
X3	Dual-Head Emergency	NICOR	EML7	surface	std	700 lumen	
X4	Exterior Remote Head	Progress	PERHC-SG-OD-30	surface	std	1W LED	

NSPJ ARCHITECTS, Inc.
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STATE OF MISSOURI — RICHARD R. BEARDMORE — NUMBER — PROFESSIONAL ENGINEER
6/9/2023

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

DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS

2	23 0428	ADD 1/CC 2
3	23 0511	ADDENDUM 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4

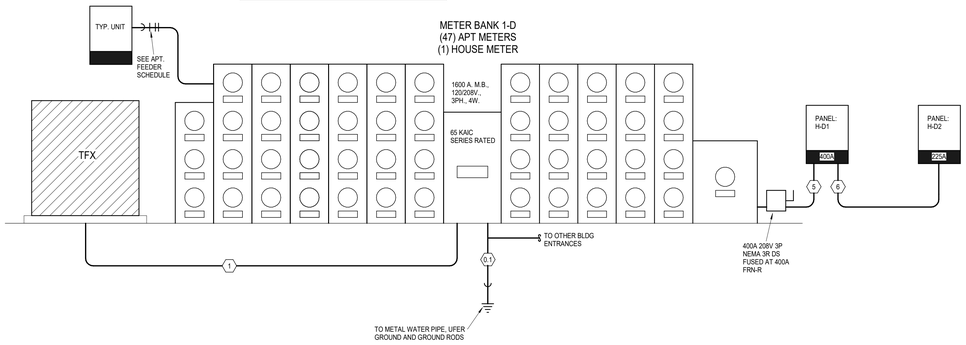
LS&A Lattner Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-2974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921 DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME ELECTRICAL DETAILS/SCHEDULES
SHEET NO. E3.03

8/17/2023 9:06:21 AM

ARCH E1.30" x 42"

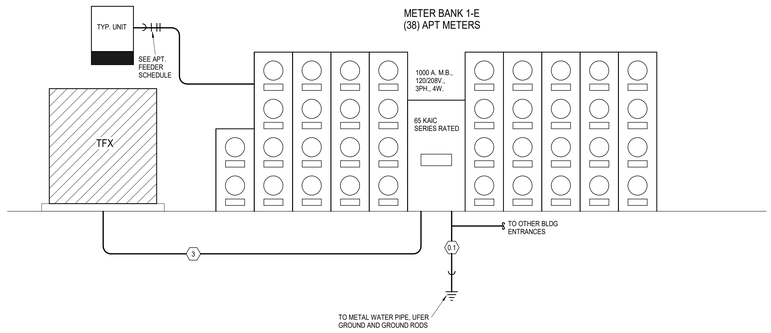
NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



1 METER BANK 1-D ELECTRICAL RISER
NOT TO SCALE

FEEDER SCHEDULE						
MARK	OCP	SETS	NO. COND.	SIZE ALUM.	SIZE GRD.	CONDUIT
0.1	0 A	1	1		3/0 CU	2"
1	1600 A	5	4	600 KCMIL		4"
2	1200 A	4	4	500 KCMIL		3"
3	1000 A	3	4	400 KCMIL	#3/0	3"
4	800 A	3	4	600 KCMIL	#3/0	3"
5	400 A	2	4	4/0	#6	3"
6	225 A	1	4	300 KMCIL	#2	3"
7	100 A	1	4	#1/0	#4	2"

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



2 METER BANK 1-E ELECTRICAL RISER
NOT TO SCALE

NOTES:
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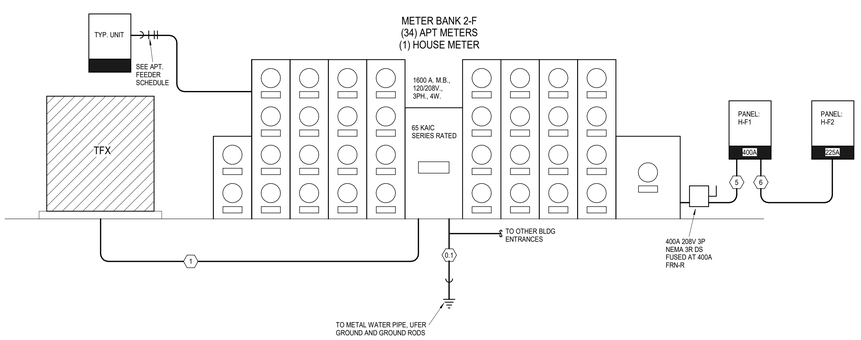
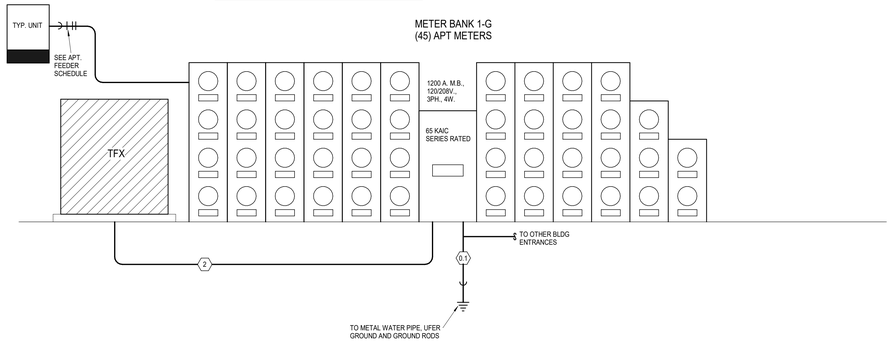
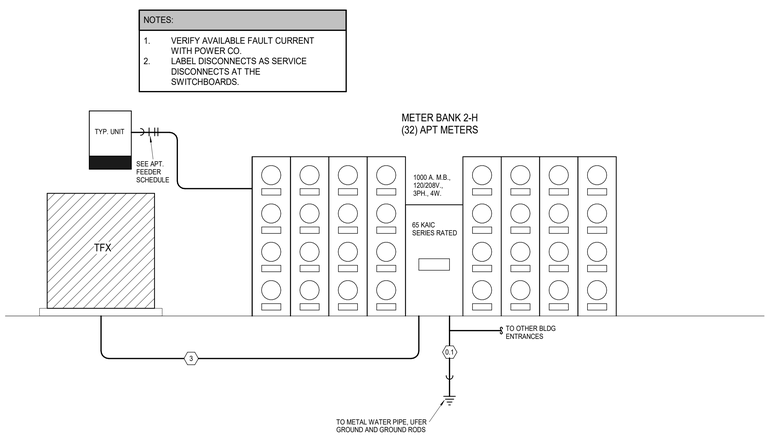


3 METER BANK 2-F ELECTRICAL RISER
NOT TO SCALE



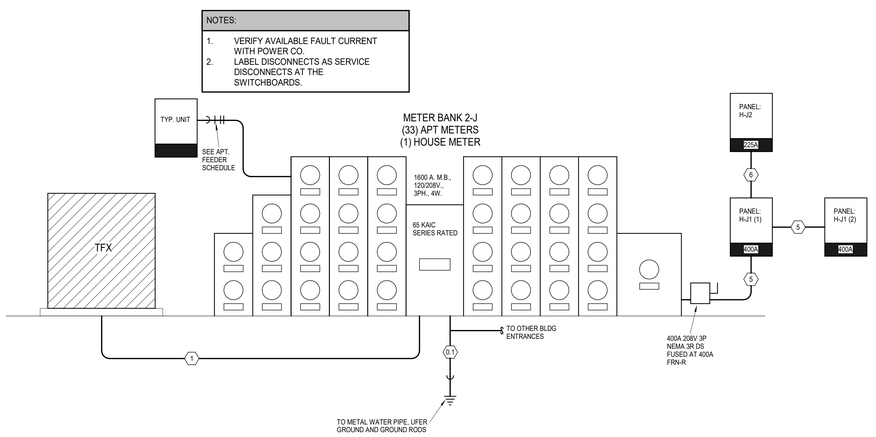
4 METER BANK 2-G ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



5 METER BANK 2-H ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



6 METER BANK 2-J ELECTRICAL RISER
NOT TO SCALE

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PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
6/9/2023

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

DRAWING RELEASE LOG
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS
2	23.0428	ADD 1CC 2
5	23-06-09	ASI 1
8	23-08-11	ASI 4

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-2874
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME ELECTRICAL DETAILS/SCHEDULES
SHEET NO. E3.04

8/11/2023 9:06:21 AM

ARCH E1.30" x 42"

Panel: H-B1 (1)

Location: CLUB AREA
Supply From: MB 1-B
Mounting:
Enclosure:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42000
Mains Type: MLO
Mains Rating: 800 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	Lighting STAIR B2 234	20 A	12	0	0					12	20 A	Lighting STAIR B1 233	2
3							195			12	20 A	Lighting	4
5	Receptacle Space 2240	20 A	12					360	360	12	20 A	Receptacle Space 2240	6
7	Receptacle Space 2240	20 A	12	360	195					12	20 A	Lighting	8
9	Lighting Space 2240	20 A	12			15							10
11	Receptacle ELEV. C 235	20 A	12					180	180	12	20 A	Receptacle ELEV. C 235	12
13	Receptacle ELEV. C 313	20 A	12	180	0					12	20 A	Power ELEV. C 318	14
15						2358	240			12	20 A	Lighting	16
17	ELEVATOR (SHUNT TRIP)	90 A	3					2358	6665	8	50 A	AHU-HC2	18
19				2358	6665								20
21	Other	20 A	12			0	360			12	20 A	Lighting	22
23	Power MAIL-1 111-1	20 A	12					500	240	12	20 A	Lighting	24
25	Lighting ELEV. LOBBY 312	20 A	12	240	1976					12	20 A	WH-C1	26
27	AHU-HC1	50 A	8			6665	1976						28
29								6665	1500	12	20 A	EUH-A	30
31	Lighting ELEV. C 235	20 A	12	480	1500								32
33	Lighting ELEV. F 369	20 A	12			240	1500			12	20 A	EUH-A	34
35	Receptacle WK RM 104	20 A	12					180	1500				36
37	WH-C2	20 A	12	1976									38
39						1976							40
41	Lighting	20 A	12					0	720	12	20 A	Receptacle FITNESS 115	42
43					180								44
45							2079				100 A	POOL	46
47	Space	--	--					--	1850				48
49				22265	5650								50
51	H1-B2	225 A				33029	11000				225 A	H-B3	52
53								25674	12501				54
		Total Load:		98937 VA		101959 VA		110673 VA					
		Total Amps:		824 A		854 A		926 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	228986 VA	70.00%	160291 VA		
Lighting	4864 VA	125.00%	6080 VA	**Total Conn. Load:**	311569 VA
Other	8684 VA	100.00%	8684 VA	**Total Est. Demand:**	232335 VA
Power	6250 VA	100.00%	6250 VA	**Total Conn.:**	865 A
Receptacle	33420 VA	64.96%	21710 VA	**Total Est. Demand:**	645 A
Motor	14150 VA	100.00%	14150 VA		
Appliance	5000 VA	100.00%	5000 VA		
HVAC Load	0 VA	0.00%	0 VA		
Range	10400 VA	100.00%	10400 VA		

Notes:

Panel: H-B1 (2)

Location: CLUB AREA
Supply From: MB 1-B
Mounting:
Enclosure:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42000
Mains Type: MLO
Mains Rating: 800 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
55	CU-HB7	45 A	8	2205	1560					8	30 A	CU-HB6	56
57						2205	1560						58
59	CU-HB5	15 A	12					874	874	12	20 A	CU-HB4	60
61				874	874								62
63	Receptacle WK RM 104	20 A	12			540	1560			8	30 A	CU-HB3	64
65	CU-HB2	30 A	8					1560	1560				66
67				1560	1560					8	30 A	CU-HB1	68
69	Receptacle	20 A	12			540	1560						70
71	AHU-HB6	50 A	6					7205	6665	8	50 A	AHU-HB5	72
73				7205	6665								74
75	DSS-STAIR	25 A	10			1612	1612			10	25 A	DSS-STAIR	76
77								1612	1612				78
79	AHU-HB4	50 A	6	7205	7205					6	50 A	AHU-HB3	80
81						7205	7205						82
83	AHU-HB2	50 A	6					7205	7205	6	50 A	AHU-HB1	84
85				7205	7205								86
87	AHU-HB7	70 A	4			9907	1612			10	25 A	DSS-GOLF	88
89								9907	1612				90
91	Lighting	20 A	12	720	900					12	20 A	Receptacle OFFICE 102	92
93	Receptacle Space 483	20 A	12			540	0			12	20 A	Lighting	94
95	Lighting	20 A	12					0	180	12	20 A	Receptacle PACKAGE 112	96
97	Receptacle	20 A	12	360	225					12	20 A	Lighting	98
99	Receptacle ELEV. LOBBY 308	20 A	12			720	720			12	20 A	Receptacle ELEV. LOBBY 308	100
101	Lighting	20 A	12					0	180	12	20 A	Receptacle	102
103	Receptacle	20 A	12	720	720					12	20 A	Receptacle ELEV. LOBBY 308	104
105	Power	20 A	12			500	780			12	20 A	Receptacle RR 106	106
107	Space	--	--					--	1000	12	20 A	RADON	108
		Total Load:		54957 VA		40379 VA		49251 VA					
		Total Amps:		469 A		336 A		422 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	135494 VA	70.00%	94846 VA		
Lighting	225 VA	125.00%	281 VA	**Total Conn. Load:**	144588 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	103993 VA
Power	1500 VA	100.00%	1500 VA	**Total Conn.:**	401 A
Receptacle	7380 VA	100.00%	7380 VA	**Total Est. Demand:**	289 A
HVAC Load	0 VA	0.00%	0 VA		

Notes:

Panel: H-B2

Location: SECTION A FIRST FLOOR
Supply From: H-B1
Mounting:
Enclosure:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	AHU-HA1	50 A	8	6665	900					12	20 A	Receptacle ELEV. LOBBY 291	2
3						6665	120			10	20 A	SITE LIGHTING	4
5	Receptacle ELEV. A 223	20 A	12					240	180	12	20 A	Receptacle ELEV. A 223	6
7	Receptacle ELEV. A 223	20 A	12	180	1000					12	20 A	Receptacle GARAGE-1 224-1	8
9	Receptacle GARAGE 226	20 A	12			720	1000			12	20 A	Receptacle GARAGE 226	10
11	Receptacle GARAGE 228	20 A	12					1000	1080	12	20 A	Receptacle ELEV. LOBBY 291	12
13	Receptacle GARAGE 230	20 A	12	500	1000					12	20 A	Receptacle GARAGE 231	14
15	Lighting	20 A				15	9907			4	70 A	AHU-HA2	16
17	Lighting	20 A	12					285	9907				18
19	Lighting STAIR A 288	20 A	12	90	570					12	20 A	Lighting	20
21	ELEVATOR (SHUNT TRIP) VERIFY	90 A	3			2358	500			12	20 A	Power ELEV. 301	22
23								2358	180	12	20 A	Receptacle ELEV. 301	24
25				2358	240					12	20 A	Lighting ELEV. 301	26
27	CU-HA2	45 A	8			2184	1435			10	25 A	CU-HA1	28
29								2184	1435				30
31	Receptacle	20 A	12	1080	2500					8	30 A	EV CHARGER	32
33	Receptacle MDF/MECH. ROO...	20 A	12			1000	2500						34
35	Receptacle MDF/MECH. ROO...	20 A	12					1000	1350	10	25 A	DSS-IT	36
37	DSS-STAIR	25 A	10	1625	1350								38
39						1625	1500			12	20 A	EUH-A	40
41	EUH-A	20 A	12					1500	1500				42
				1500	750								
45	EUH-A	20 A	12			1500	--			--	--	]	46
47								1500	--	--	--	Space	48
49	Spare	20 A	--	0	--					--	--	Space	50
51	Spare	20 A	--			0	--			--	--	Space	52
53	Spare	20 A	--					0	--	--	--	Space	54
		Total Load:		22265 VA		33029 VA		25674 VA					
		Total Amps:		186 A		280 A		218 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	55333 VA	70.00%	38733 VA		
Lighting	1440 VA	125.00%	1800 VA	**Total Conn. Load:**	80967 VA
Other	620 VA	100.00%	620 VA	**Total Est. Demand:**	64301 VA
Power	750 VA	100.00%	750 VA	**Total Conn.:**	225 A
Receptacle	10820 VA	96.21%	10410 VA	**Total Est. Demand:**	178 A
Motor	7075 VA	100.00%	7075 VA		
Appliance	5000 VA	100.00%	5000 VA		

Notes:

Panel: H-B3

Location: FITNESS MECH ROOM
Supply From: H-B1
Mounting:
Enclosure:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	Receptacle GOLF LOUNGE 113	20 A	12	180	180					12	20 A	Receptacle GOLF LOUNGE 113	2
3	Receptacle GOLF LOUNGE 113	20 A	12			1000	180			12	20 A	Receptacle GOLF LOUNGE 113	4
5	Receptacle RR 116	20 A	12					720	900	12	20 A	Receptacle RR 116	6
7	HVAC	20 A	12	1800	540					12	20 A	Receptacle	8
9	Range	40 A	8			5200	180			12	20 A	Receptacle	10
11								5200	720	12	20 A	Receptacle	12
13	Other FITNESS 115	20 A	12	0	360					12	20 A	Receptacle	14
15	Receptacle	20 A	12			540	720			12	20 A	Receptacle FITNESS 115	16
17	Receptacle FITNESS 115	20 A	12					540	0	12	20 A	Receptacle	18
19	Receptacle TREATMENT 90	20 A	12	540	540					12	20 A	Receptacle SPA LOBBY 96	20
21	Receptacle YOGA-1 92-1	20 A	12			540	105			12	20 A	Lighting Space 2301	22
23	Lighting Space 2240	20 A	12					75	900	12	20 A	Receptacle CO-WORKING 305	24
25	Receptacle CO-WORKING 305	20 A	12	540	540					12	20 A	Receptacle ZOOM 99	26
27	Receptacle CONFERENCE 101	20 A	12			720	600			10	20 A	Lighting	28
29	Other	20 A	10					160	250	8	30 A	SAUNA	30
31	Receptacle	20 A		180	250								32
33	Spare	20 A	--			0	680				20 A	Receptacle	34
35	Spare	20 A	--					0	1360		20 A	Receptacle	36
37	Spare	20 A	--	0	0						20 A	Lighting	38
39	Spare	20 A	--			0	540				20 A	Receptacle	40
41	Spare	20 A	--					0	1680		20 A	Receptacle	42
		Total Load:		5650 VA		11000 VA		12501 VA					
		Total Amps:		47 A		99 A		111 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	1800 VA	70.00%	1260 VA		
Lighting	773 VA	125.00%	966 VA	**Total Conn. Load:**	29151 VA
Other	160 VA	100.00%	160 VA	**Total Est. Demand:**	27544 VA
Power	3500 VA	100.00%	3500 VA	**Total Conn.:**	81 A
Receptacle	12520 VA	89.94%	11260 VA	**Total Est. Demand:**	76 A
Range	10400 VA	100.00%	10400 VA		

Notes:

Panel: H-D1

Location: SECTION D FIRST FLOOR
Supply From: METER BANK 1-D
Mounting:
Enclosure:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	AHU-HD1	70 A	4	9907	390					12	20 A	Lighting	2
3						9907	540			12	20 A	Receptacle GARAGE 202	4
5	Lighting	20 A						0	1080	12	20 A	Receptacle	6
7	Receptacle GARAGE 204	20 A	12	360	360					12	20 A	Receptacle GARAGE 206	8
9	Lighting	20 A	12			30	720			12	20 A	Receptacle	10
11	Receptacle GARAGE 199	20 A	12					360	360	12	20 A	Receptacle GARAGE 197	12
13	Receptacle GARAGE 195	20 A	12	360	554						20 A	Receptacle OFFICE SUITE-1...	14
15	RADON	20 A	12			1000	720			12	20 A	Receptacle ELEV. LOBBY 320	16
17	RADON	20 A	12					1500	554		20 A	Receptacle OFFICE SUITE-1...	18
19	Receptacle OFFICE SUITE 340	20 A		554	554						20 A	Receptacle OFFICE SUITE-1...	20
21						15				12	20 A	Lighting	22
23								900	12	20 A	Receptacle ELEV. LOBBY 320	24
25	Receptacle ELEV. LOBBY 320	20 A	12	720	245					12	20 A	Lighting	26
27	EV CHARGER	30 A	12			2500	690			12	20 A	Lighting	28
29								2500	180	12	20 A	Receptacle ELEV. E 240	30
31	CU-HC1	15 A	12	874	874					12	15 A	CU-HC2	32
33						874	874						34
35	DSS-STAIR	25 A	10					1612	2205	8	45 A	CU-HD2	36
37				1612	2205								38
39	CU-HD1	45 A	8			2205	1850			10	25 A	EUH-B	40
41								2205	1850				42
43	Lighting	20 A	12	360	540					12	20 A	EUH-A	44
45							500						46
47	Lighting	20 A	12					400					48
49				24287									50
51	H-D2	225 A				20609							52
53								20186					54
		Total Load:		45781 VA		43997 VA		35892 VA					
		Total Amps:		392 A		377 A		299 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	86114 VA	70.00%	60280 VA		
Lighting	3547 VA	125.00%	4434 VA	**Total Conn. Load:**	125669 VA
Other	700 VA	100.00%	700 VA	**Total Est. Demand:**	98131 VA
Power	3250 VA	100.00%	3250 VA	**Total Conn.:**	349 A
Receptacle	15120 VA	83.07%	12560 VA	**Total Est. Demand:**	272 A
Motor	7075 VA	100.00%	7075 VA		
Appliance	10000 VA	100.00%	10000 VA		

Notes:

Panel: H-D2

Location: SECTION E FIRST FLOOR
Supply From: H-D1
Mounting:
Enclosure:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	Lighting	20 A	12	180	360					12	20 A	Lighting	2
3	Lighting	20 A	12			180	360			12	20 A	Lighting	4
5	Lighting	20 A	12					360	360	12	20 A	Lighting	6
7	Lighting STAIR E 241	20 A	12	60	360					12	20 A	Lighting	8
9	Lighting	20 A	12			180	2500			10	30 A	EV CHARGER	10
11	Receptacle STORAGE-1 358-1	20 A	12					900	2500				12
13	Lighting ELEV. E 240	20 A	12	240	7205					6	50 A	AHU-HE1	14
15	Receptacle STORAGE-1 358-1	20 A	12			720	7205						16
17	Receptacle ELEV. E 240	20 A	12					180	900	12	20 A	Receptacle	18
19	Receptacle ELEV. E 240	20 A	12	180	330					12	20 A	Lighting	20
21	Lighting	20 A	12			255	255			12	20 A	Lighting	22
23	AHU-HE2	50 A	6					7205	255	12	20 A	Lighting	24
25				7205	240					12	20 A	Lighting ELEV. E 366	26
27	ELEVATOR (SHUNT TRIP) VERIFY	90 A	3			2358	500			12	20 A	Power ELEV. E 366	28
29								2358	0	10	25 A	DSS-STAIR	30
31				2358	0								32
33	CU-HE2	30 A	8			1560	1560			8	30 A	CU-HE1	34
35								1560	1560				36
37	Power	20 A		750	1500					12	20 A	EUH-A	38
39							1500						40
41	Other	20 A	10					200	360	12	20 A	Receptacle GARAGE 191	42
43	Receptacle GARAGE 193	20 A	12	360	1500					12	20 A	EUH-A	44
45	Lighting	20 A	12			0	1500						46
47	EUH-A	20 A	12					1500	0		20 A	Lighting	48
49				1500									50
51													52
53													54
		Total Load:		24287 VA		20609 VA		20186 VA					
		Total Amps:		203 A		172 A		168 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	44061 VA	70.00%	30843 VA		
Lighting	1635 VA	125.00%	2044 VA	**Total Conn. Load:**	65082 VA
Other	700 VA	100.00%	700 VA	**Total Est. Demand:**	52253 VA
Power	750 VA	100.00%	750 VA	**Total Conn.:**	181 A
Receptacle	5940 VA	100.00%	5940 VA	**Total Est. Demand:**	145 A
Motor	7075 VA	100.00%	7075 VA		
Appliance	5000 VA	100.00%	5000 VA		

Notes:

ARCHITECTURE
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P. 913.831.1415
F. 913.831.1563
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NSPJ ARCHITECTS, Inc.
3515 W. 75TH ST., SUITE 201
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
6/9/2023

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

2	23-04-28	ASI 1/CC 2	
5	23-06-09	ASI 1	
8	23-08-11	ASI 4	

LS&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: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME ELECTRICAL SCHEDULES
SHEET NO. E3.05

8/11/2023 5:06:21 AM

ARCH E1.30" x 42"

Panel: H-F1

Location: SECTION F FLOOR 1 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: METER BANK 2-F | **Phases:** 3 | **Mains Type:** MLO
Mounting: | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	Lighting	20 A	12	360	360					12	20 A	Lighting	2
3	Lighting	20 A	12			360	180			12	20 A	Lighting	4
5	Lighting	20 A	12					360	45	12	20 A	Lighting Space 3352	6
7	Lighting	20 A	12	360	360					12	20 A	Lighting	8
9	Lighting	20 A	12			360	360			12	20 A	Lighting	10
11	Lighting	20 A	12					360	360	12	20 A	Lighting	12
13	Lighting	20 A	12	360	360					12	20 A	Lighting	14
15	Lighting	20 A	12			360	360			12	20 A	Lighting	16
17	Lighting	20 A	12					300	300	12	20 A	Lighting	18
19	Receptacle ELEV. F 243	20 A	12	360	720					12	20 A	Receptacle	20
21	Power ELEV. F 369	20 A	12			500	4900						22
23	Receptacle ELEV. LOBBY 377	20 A	12					720	4900	3	90 A	ELEVATOR (SHUNT TRIP) VERIFY	24
25	Receptacle ELEV. LOBBY 377	20 A	12	720	4900								26
27	Receptacle ELEV. LOBBY 377	20 A	12			720	9907			4	70 A	AHU-HF1	28
29	Receptacle MEP 613	20 A	12					1000	9907				30
31	Receptacle MEP 613	20 A	12	1000	180					12	20 A	Receptacle ELEV. F 243	32
33	Lighting	20 A	12			300	2205						34
35	CU-HF1	45 A	8					2205	2205	8	45 A	CU-HF2	36
37				2205	1350								38
39	DSS-STAIR	25 A	10			0	1350			10	25 A	DSS-IT	40
41								0	120	12	20 A	Lighting ELEV. F 243	42
43	Lighting	20 A		0	2500					8	30 A	EV CHARGER	44
45	Lighting	20 A				0	2500						46
47	Space	--	--					--	1500	12	20 A	EUH-A	48
49				14521	1500								50
51	PANEL F-2	225 A				20817	1000				20 A	RADON	52
53								23935	--	--	--	Space	54
		Total Load:		32116 VA		46165 VA		48179 VA					
		Total Amps:		268 A		403 A		420 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	78356 VA	70.00%	54849 VA		
Lighting	3514 VA	125.00%	4392 VA	**Total Conn. Load:**	126459 VA
Other	4612 VA	100.00%	4612 VA	**Total Est. Demand:**	99617 VA
Power	2000 VA	100.00%	2000 VA	**Total Conn.:**	351 A
Receptacle	18380 VA	77.20%	14190 VA	**Total Est. Demand:**	277 A
Motor	14700 VA	100.00%	14700 VA		
Appliance	5000 VA	100.00%	5000 VA		

Notes:

Panel: H-F2

Location: SECTION G FLOOR 1 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: H-F1 | **Phases:** 3 | **Mains Type:** MLO
Mounting: | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	Receptacle	20 A	12	900	540					12	20 A	Receptacle MAINTENANCE 245	2
3	WATER HEATER - M	20 A	12			1976	6665			8	50 A	AHU-HG1	4
5								1976	6665				6
7	Lighting	20 A	12	360	360					12	20 A	Lighting	8
9	Lighting	20 A	12			360	360			12	20 A	Lighting	10
11	Lighting	20 A	12					360	5584	8	40 A	AHU-HH1	12
13	DSS-MAINT	25 A	10	1350	5584								14
15						1350	6665			8	50 A	AHU-HG2	16
17	CU-HG1	15 A	12					874	6665				18
19				874	874					12	15 A	CU-HG2	20
21	Lighting	20 A	12			330	874						22
23	Lighting	20 A	12					330	360	12	20 A	Lighting	24
25	Receptacle ELEV. LOBBY 419	20 A	12	720	360					12	20 A	Lighting	26
27	Receptacle MAINTENANCE 245	20 A	12			540	330			12	20 A	Lighting	28
29	Other MAINTENANCE 245	20 A	12					60	630	12	20 A	Lighting ELEV. LOBBY 409	30
31	Lighting	20 A	12	360	720					12	20 A	Receptacle ELEV. LOBBY 419	32
33	Lighting	20 A	12			180	720			12	20 A	Receptacle ELEV. LOBBY 419	34
35	Lighting	20 A	12					0	180	12	20 A	Receptacle MAINTENANCE 245	36
37	RADON	20 A	12	1000	360					12	20 A	Lighting	38
39	Spare	20 A	--			0	500			10	20 A	Lighting	40
41	Spare	20 A	--					0	300	10	20 A	Lighting	42
43	Spare	20 A	--	0	160					10	20 A	Other	44
45	Spare	20 A	--			0	--			--	--	Space	46
47	Spare	20 A	--					0	--	--	--	Space	48
49	Spare	20 A	--	0	--					--	--	Space	50
51	Spare	20 A	--			0	--			--	--	Space	52
53	Spare	20 A	--					0	--	--	--	Space	54
		Total Load:		14521 VA		20817 VA		23935 VA					
		Total Amps:		121 A		182 A		208 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	44022 VA	70.00%	30816 VA		
Lighting	2453 VA	125.00%	3066 VA	**Total Conn. Load:**	59273 VA
Other	4112 VA	100.00%	4112 VA	**Total Est. Demand:**	46667 VA
Power	1000 VA	100.00%	1000 VA	**Total Conn.:**	165 A
Receptacle	7740 VA	100.00%	7740 VA	**Total Est. Demand:**	130 A

Notes:

Panel: H-J1 (1)

Location: SECTION J FLOOR 1 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	Other BIKE STORAGE 138	20 A	12	0	360					12	20 A	Lighting	2
3	Lighting	20 A	12			360	360			12	20 A	Lighting	4
5	Lighting	20 A	12					360	360	12	20 A	Lighting	6
7	Lighting	20 A	12	315	360					12	20 A	Lighting	8
9	Lighting	20 A	12			360	180			12	20 A	Lighting	10
11	Lighting STAIR J 248	20 A	12					0	360	12	20 A	Lighting	12
13	Lighting	20 A	12	180	360					12	20 A	Lighting	14
15	AHU-HJ1	70 A	4			9907	540			12	20 A	Receptacle DOG SPA 438	16
17								9907	0	12	20 A	Lighting	18
19	CU-HJ2	30 A	8	1560	0					12	20 A	Lighting	20
21						1560	7205						22
23	Lighting ELEV. LOBBY 458	20 A	12					570	7205	6	50 A	AHU-HJ2	24
25	Lighting	20 A	12	195	285					12	20 A	Lighting	26
27	ELEVATOR (SHUNT TRIP) VERIFY	90 A	3			4900	500			12	20 A	Power ELEV. J 467	28
29								4900	480	12	20 A	Lighting ELEV. J 249	30
31				4900	720					12	20 A	Receptacle STORAGE 439	32
33	Receptacle STORAGE 439	20 A	12			720	720			12	20 A	Receptacle STORAGE 439	34
35	Receptacle ELEV. J 249	20 A	12					360	180	12	20 A	Receptacle ELEV. J 249	36
37	DSS-STAIR	25 A	10	1613	720					12	20 A	Receptacle	38
39						1613	720			12	20 A	Receptacle	40
41	Lighting	20 A	12					360	360	12	20 A	Lighting	42
43	Lighting	20 A	12	360	2500					8	30 A	EV CHARGER	44
45	Lighting	20 A	12			360	2500						46
47	CU-HJ1	45 A	8					2205	195	12	20 A	Lighting	48
49				2205	27390								50
51	EUH-A	20 A	12			1500	14273			225 A		PANEL H-J2	52
53								1500	26081				54
		Total Load:		45064 VA		50641 VA		56935 VA					
		Total Amps:		376 A		429 A		482 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	92677 VA	70.00%	64874 VA		
Lighting	4262 VA	125.00%	5327 VA	**Total Conn. Load:**	152639 VA
Other	1440 VA	100.00%	1440 VA	**Total Est. Demand:**	123767 VA
Power	750 VA	100.00%	750 VA	**Total Conn.:**	424 A
Receptacle	14220 VA	85.16%	12110 VA	**Total Est. Demand:**	344 A
Motor	29400 VA	100.00%	29400 VA		
Appliance	10000 VA	100.00%	10000 VA		

Notes:

Panel: H-J1 (2)

Location: SECTION J FLOOR 1 | **Volts:** 120/208 Wye
Supply From: | **Phases:** 3
Mounting: | **Wires:** 4
Enclosure:

A.I.C. Rating: 42000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
55	Lighting	20 A	10	300	240					10	20 A	Other	56
57	RADON	20 A	12			750	0			12	20 A	Lighting	58
59									0	12	20 A	Lighting	60
61	Receptacle GARAGE 277	20 A	12	360	180					12	20 A	Receptacle GARAGE 279	62
63	DSS-DOG SPA	25 A	10			1613							64
65								1613					66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
85													86
87													88
89													90
91													92
93													94
95													96
		Total Load:		1080 VA		2363 VA		1613 VA					
		Total Amps:		9 A		20 A		14 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	3225 VA	70.00%	2258 VA		
Lighting	300 VA	125.00%	375 VA	**Total Conn. Load:**	5055 VA
Other	240 VA	100.00%	240 VA	**Total Est. Demand:**	4163 VA
Power	750 VA	100.00%	750 VA	**Total Conn.:**	14 A
Receptacle	540 VA	100.00%	540 VA	**Total Est. Demand:**	12 A

Notes:

Panel: H-J2

Location: SEGMENT G FLOOR 2 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: H-J1 | **Phases:** 3 | **Mains Type:** MLO
Mounting: | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	Lighting ELEV. G 275	20 A	12	240	697					12	15 A	CU-HH1	2
3	DSS-STAIR	25 A	10			1612	697						4
5								1612	874	12	15 A	CU-HG3	6
7	CU-HG4	15 A	12	874	874								8
9						874	360			12	20 A	Receptacle ELEV. G 275	10
11	Receptacle ELEV. G 275	20 A	12					180	0	12	20 A	Lighting STAIR G 246	12
13	Lighting	20 A	12	360	3700					10	25 A	EUH-B	14
15	Lighting	20 A	12			360	4900						16
17	Power ELEV. G 410	20 A	12					500	4900	3	90 A	ELEVATOR (SHUNT TRIP) VERIFY	18
19	Lighting	20 A	12	240	4900								20
21	Receptacle	20 A	12			720	2500			8	30 A	EV CHARGER	22
23	Lighting	20 A	12					195	2500				24
25	Receptacle Space 3702	20 A	12	900	900					12	20 A	Receptacle Space 3702	26
27	Lighting	20 A	12			195	195			12	20 A	Lighting Space 2742	28
29	AHU-HG4	50 A	8					6665	6665	8	50 A	AHU-HG3	30
31				6665	6665								32
33	Lighting	20 A	12			180	1500			12	20 A	EUH-A	34
35	Lighting	20 A	10					500	1500				36
37	Lighting	20 A	12	0	400					10	20 A	Lighting	38
39	Lighting	20 A	12			0	200			10	20 A	Other	40
41									--	--	--	Space	42
		Total Load:		27390 VA		14273 VA		26081 VA					
		Total Amps:		243 A		119 A		232 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	41472 VA	70.00%	29030 VA		
Lighting	1940 VA	125.00%	2426 VA	**Total Conn. Load:**	67744 VA
Other	700 VA	100.00%	700 VA	**Total Est. Demand:**	55781 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	188 A
Receptacle	3960 VA	100.00%	3960 VA	**Total Est. Demand:**	155 A
Motor	14700 VA	100.00%	14700 VA		
Appliance	5000 VA	100.00%	5000 VA		

Notes:

Panel: POOL

Location: POOL | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: H-B1 | **Phases:** 3 | **Mains Type:** MLO
Mounting: | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	HVAC Load POOL EQUIP.-1...	20 A	12	0	180					12	20 A	Receptacle POOL EQUIP.-1...	2
3	Lighting	20 A	12			240	1850			12	20 A	EUH-B	4
5	POOL PUMP	20 A	12					0	1850				6
7				0	0					12	20 A	POOL PUMP (VERIFY)	8
9						0							10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
		Total Load:		180 VA		2079 VA		1850 VA					
		Total Amps:		2 A		19 A		18 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	3700 VA	70.00%	2590 VA		
Lighting	240 VA	125.00%	300 VA	**Total Conn. Load:**	4109 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	3056 VA
Receptacle	180 VA	100.00%	180 VA	**Total Conn.:**	11 A
HVAC Load	0 VA	0.00%	0 VA	**Total Est. Demand:**	8 A

Notes:

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ENERGY SERVICES
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F. 913.831.1563
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3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
6/9/2023

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

REVISIONS
2 23.0428 ADD 1/CC 2
5 23-06-09 ASI 1
8 23-08-11 ASI 4

LS&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: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921 | DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME ELECTRICAL SCHEDULES
SHEET NO. E3.06

8/10/2023 2:19:47 PM

ARCH E1.30" x 42"

ELECTRICAL PANEL SCHEDULE

PANEL: S1, A1		POLES: 20		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		30	2	1
17, 19	CONDENSING UNIT		20	2	1
2	LIGHTS AND RECEPTACLES		20	1	1
4, 6, 10-14 EVEN, 18	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	7
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
20	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: A2, A3, A4		POLES: 20		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		30	2	1
17, 19	CONDENSING UNIT		20	2	1
2	LIGHTS AND RECEPTACLES		20	1	1
4, 6, 10-14 EVEN, 18	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	7
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
20	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: B1, B3		POLES: 24		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		40	2	1
17, 19	CONDENSING UNIT		15	2	1
2	LIGHTS AND RECEPTACLES		20	1	1
4, 6, 10-14 EVEN, 18, 20	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	8
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
21	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: B2		POLES: 24		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		40	2	1
17, 19	CONDENSING UNIT		15	2	1
2, 22	LIGHTS AND RECEPTACLES		20	1	2
4, 6, 10-14 EVEN, 18-22 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	9
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
21	SPARE		20	1	3

ELECTRICAL PANEL SCHEDULE

PANEL: B4		POLES: 24		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		50	2	1
17, 19	CONDENSING UNIT		25	2	1
2	LIGHTS AND RECEPTACLES		20	1	1
4, 6, 10-14 EVEN, 18, 20	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	8
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
21	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: C1, C3		POLES: 24		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		40	2	1
17, 19	CONDENSING UNIT		15	2	1
2, 22	LIGHTS AND RECEPTACLES		20	1	2
4, 6, 10-14 EVEN, 18-22 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	9
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
21	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: C2, C4		POLES: 24		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		50	2	1
17, 19	CONDENSING UNIT		25	2	1
2, 22	LIGHTS AND RECEPTACLES		20	1	2
4, 6, 10-14 EVEN, 18-22 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	9
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
21	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: D1		POLES: 24		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		50	2	1
17, 19	CONDENSING UNIT		30	2	1
2, 22	LIGHTS AND RECEPTACLES		20	1	2
4, 6, 10-14 EVEN, 18-22 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	9
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
21	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL:PH		POLES: 24		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		50	2	1
17, 19	CONDENSING UNIT		30	2	1
2, 22	LIGHTS AND RECEPTACLES		20	1	2
4, 6, 10-14 EVEN, 18-22 EVEN, 21	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	10
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
23	SPARE		20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: GS		POLES: 20		MOUNTING:	FLUSH
BUS: 125A.	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10K
CIRCUIT NUMBERS	DESCRIPTION		AMPS	POLES	QUANTITY
1, 3	RANGE		40	2	1
5, 7, 13, 15	WATER HEATER, DRYER		30	2	2
9, 11	AHU		30	2	1
17, 19	CONDENSING UNIT		15	2	1
2	LIGHTS AND RECEPTACLES		20	1	1
4, 6, 10-14 EVEN, 18	ARC-FAULT LIGHTS AND RECEPTACLES		20	1	7
8, 16	COMBINATION GFI/ARC-FAULT		20	1	1
20	SPARE		20	1	1

NSPJ
ARCHITECTURE LANDSCAPE ARCHITECTURE ENERGY SERVICES
ARCHITECTS, Inc.
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
NSPJARCH.COM
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010020010
PROFESSIONAL ENGINEER
6/9/2023

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

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

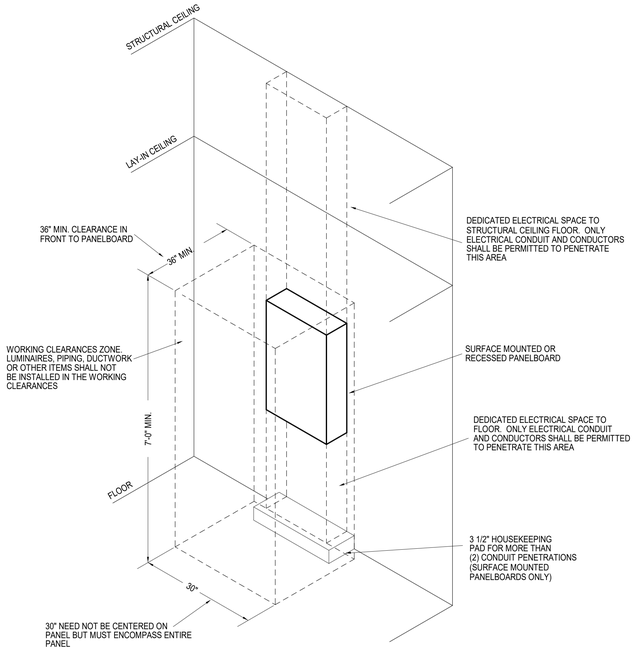
△ REVISIONS
1 23-06-09 ASI 1

LS&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: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023
DRAWN BY LSA CAD
5/17/2023 CITY COMMENTS #3
SHEET NAME ELECTRICAL SCHEDULES
SHEET NO. E3.07
△ NEW SHEET

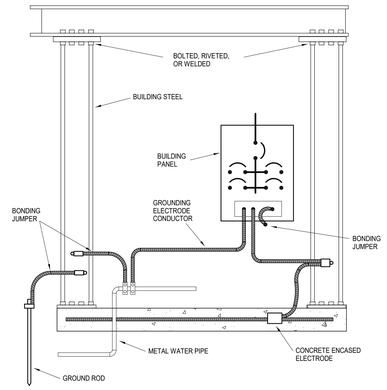
6/12/2023 5:48:11 PM

ARCH E1 30" x 42"

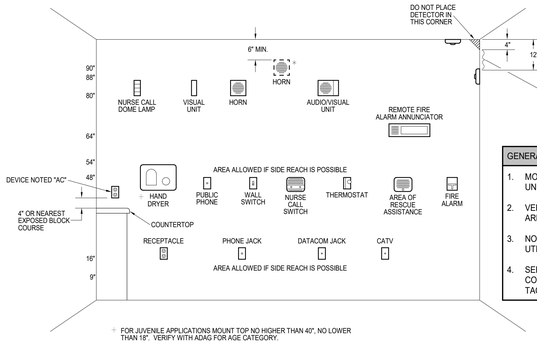


NOTE:
COORDINATE ALL WORK WITH OTHER TRADES. MAINTAIN ALL OTHER NEC CLEARANCES AND REQUIREMENTS.

1 TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



2 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE

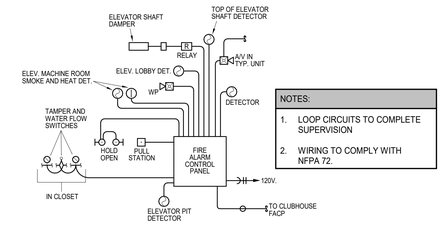


+ FOR JUVENILE APPLICATIONS MOUNT TOP NO HIGHER THAN 40", NO LOWER THAN 18". VERIFY WITH ADAG FOR AGE CATEGORY.

GENERAL NOTES:
1. MOUNT DEVICES AT HEIGHT INDICATED UNLESS NOTED OTHERWISE ON PLANS.
2. VERIFY MOUNTING IN SIDE REACH AREAS WITH ARCHITECT.
3. NOT ALL DEVICES SHOWN MAY BE UTILIZED ON PROJECT.
4. SEE ARCHITECTURAL DRAWINGS FOR CONFLICTS WITH CHALK BOARDS, TACK BOARDS, AND CASEWORK.

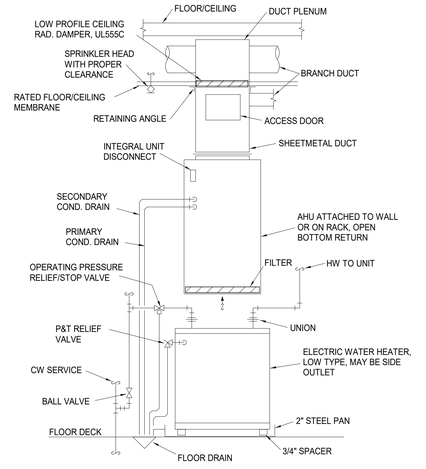
DEVICE MOUNTING NOTES:
1. VISUAL UNIT DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
2. AUDIO UNIT DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER. * TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 6" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.
3. AUDIO/VISUAL UNIT DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
4. PULL STATION HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH).
ELECTRICAL DEVICE MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

3 ELECTRICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE

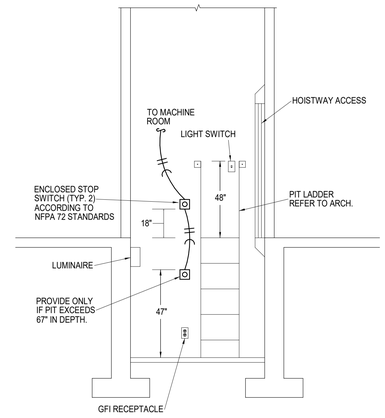


NOTES:
1. LOOP CIRCUITS TO COMPLETE SUPERVISION
2. WIRING TO COMPLY WITH NFPA 72.

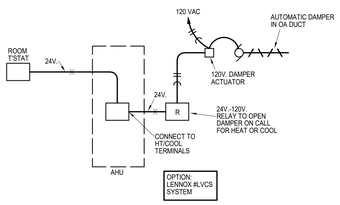
4 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



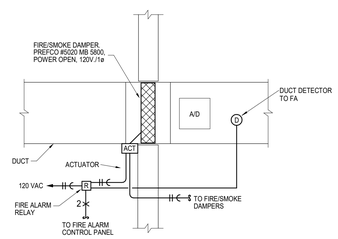
7 APARTMENT AHU/WATER HEATER
NOT TO SCALE



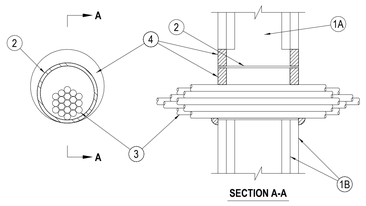
8 ELEVATOR DETAIL
NOT TO SCALE



5 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NOT TO SCALE

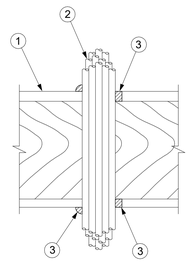


6 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



9 FIRE RATED PENETRATION DETAIL
NO SCALE — SYSTEM WL-3065

NOTES AND LEGENDS:
1. 1. Wall Assembly — The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: A. Studs - Steel framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. B. Gypsum Board - 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed. The F Rating of the firestop system is equal to the fire rating of the wall assembly. Metallic Sleeve — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, NZs. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm) Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used: A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket. B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket. C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of ½ in. (13 mm). D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm). E. Through Penetrating Products - Three copper conductor No. 8 AWG . Metal-Clad Cable+. AFC CABLE SYSTEMS INC: F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing. G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket. H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable. Through Penetrating Product* - Any cables. Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers. Fill, Void or Cavity Material** — Sealant or Putty – Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating . An additional 1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. -- CP601S, CP606, FS-One Sealants or CP618 Putty *Bearing the UL Classification Mark 4. +Bearing the UL Listing Mark



10 FIRE RATED PENETRATION DETAIL
NO SCALE — SYSTEM FC-3074

NOTES AND LEGENDS:
1. 1. Floor-Ceiling Assembly - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below: A. Flooring System - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 3 in. B. Wood Joists* - Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped. C. Gypsum Board* - Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Chase Wall - (Optional, Not Shown) - The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: 1A. A. Studs - Nom 2 by 4 in., 2 by 6 in. or double nom 2 by 4 in. lumber studs. B. Sole Plate - Nom 2 by 4 in., 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in. C. Top Plate - The double top plate shall consist of two nom 2 by 4 in., two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in. D. Gypsum Board* - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design. Cables - Aggregate cross-sectional area of cable in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. Cables to be rigidly supported on both sides of the floor-ceiling assembly. Any combination of the following types and sizes of copper conductor cables may be used: A. Max 150 pair No. 24 AWG telephone cable with PVC insulation and jacket. 2. B. Max 2/C No. 10 with ground Type NM nonmetallic sheathed (Romex) cable with PVC insulation and jacket. C. Max 3/C with ground 2/0 AWG aluminum SER cable with PVC insulation and jacket. D. Max 3/C No. 10 AWG copper conductor steel clad cable. E. Max 24 fiber optic cable. F. RG 59U coaxial cable. G. CAT 5 data cable. Fill, Void or Cavity Materials*-Sealant - Min 3/4 in. thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. thickness of sealant applied within the annulus flush with the bottom surface of gypsum board or lower top plate. A min 1/2 in. diameter bead of sealant applied at the cable bundle/subflooring or sole plate interface and the cable bundle/gypsum board or top plate interface at point contact locations. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 606 Flexible Firestop Sealant 3. *Bearing the UL Classification Mark

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ARCHITECTURE LANDSCAPE ARCHITECTURE ENERGY SERVICES
P. 913.831.1415
F. 913.831.1563
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A NEW RESIDENTIAL COMMUNITY AT:

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DRAWING RELEASE LOG
- 08.26.2022 - PLAN REVIEW
- 12.16.2022 - PROGRESS SET

△REVISIONS:

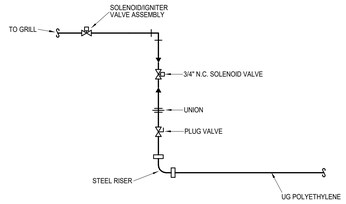
LS&A Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

DATE: 01.20.2023
JOB NO. 705922
DRAWN BY: Author
SHEET NO. E4.01

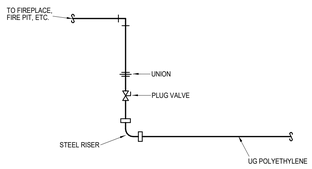
1/20/2022

Autodesk Docs://705921-NP Summit Square III\Summit Square III MEP R22.rvt 1/19/2023 4:36:41 PM NSPJ ARCHITECTS ©

ARCH E1 30" x 42"



PIPING SCHEMATIC



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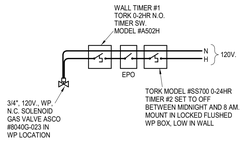
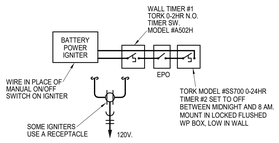
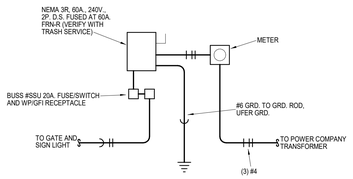


CONTROL SCHEMATIC
(GRILL)

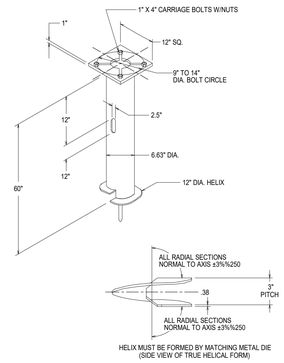


CONTROL SCHEMATIC
(FIRE PIT)

1 GAS GRILL/FIRE PIT DETAIL
NOT TO SCALE



2 COMPACTOR ELECTRICAL SERVICE DETAIL
NOT TO SCALE



HELIX MUST BE FORMED BY MATCHING METAL DIE
(SIDE VIEW OF TRUE HELICAL FORM)

-NOTES-

1. FINISH: HOT DIP GALVANIZE PER ASTM-A153 (LATEST REVISION).
2. BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (±1%%250) AND HOLE CENTERLINE CONCENTRIC (.125 DIA) TO SHAFT AXIS.
3. STENCIL MIN. 1/2 IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (± .125 FIM) AND IN LINE (±3%%250).
5. FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE.
6. PREHEAT, TUMBLE/BLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
7. FLAMECUT IRREGULARITIES PERMISSIBLE. (1) VALLEYS NOT TO EXCEED 3/32 IN. BELOW NOMINAL SURFACES LEVEL, (2) PEAKS OR RIDGES NOT TO EXCEED 3/32 IN. ABOVE OR BEYOND THE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
9. ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:

   BASEPLATE: ASTM A36-(LATEST REVISION) HOT ROLLED STEEL PLATE, (CONFORM TO AASHTO TECH. BUL. #270)

   SHAFT: STEEL PIPE PILES, SEAMLESS OR STRAIGHT WELDED, GRADE B EFFECTIVE GRADE, ASTM MATERIAL STEEL PIPE TYPE E OR S, GRADE-B PER ASTM A53.

   HELIX: ASTM A635 (LATEST REVISION) HOT ROLLED STEEL.

   PILOT POINT: ASTM A575 (LATEST REVISION) STEEL BAR.

   BOLTS: CARR BOLT PER ANSI B-18.2.1,SAE J429 GRADE-5.

10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 1/2" LETTERS AND DATE CODE IN 1/4" LETTERS.

3 LIGHT POLE FOUNDATION DETAIL
NOT TO SCALE

SEQUENCE:
GARAGE DOOR
TO OPEN WHEN
CO SENSOR IS
TRIPPED

4 GARAGE CARBON MONOXIDE SENSOR DOOR CONNECTION DETAIL
NOT TO SCALE

NSPJ
ARCHITECTS PA
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208
P. 913.831.1415
F. 913.831.1563
NSPJARCH.COM
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△REVISIONS:

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

DATE: 01.20.2023
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DRAWN BY: Author
SHEET NO. E4.02

1/20/2022

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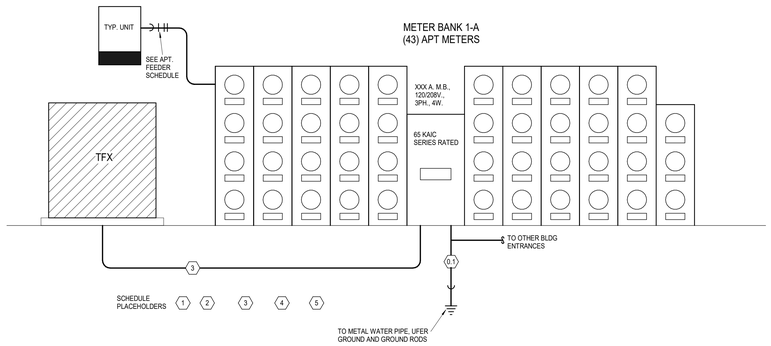
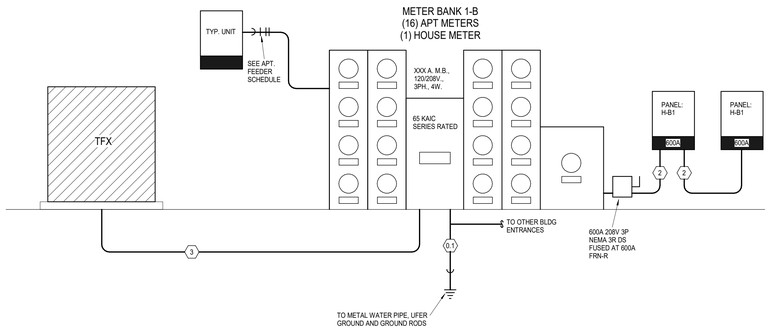
ARCH E1 30" x 42"

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



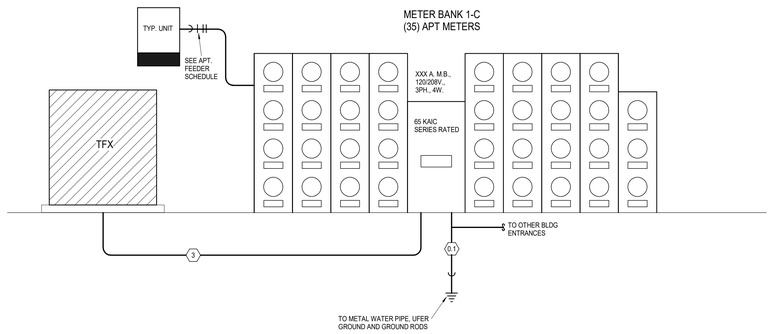
1 METER BANK 1-A ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



2 METER BANK 1-B ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



3 METER BANK 1-C ELECTRICAL RISER
NOT TO SCALE

Unit Load Calculation - Complete Analysis

	General															NEC 220-84 Calculation								
	Area Calculation			General Load												Heater Calculation			General Load Calculation					
Unit Type	Sq. Ft.	Load per Sq Ft	Total Per Sq Ft.	2 Small Appliance Circuits	Dishwasher	Disposer	Dryer	Microwave	Range	Oven	Combined Oven Range	Washer	Water Heater	Total General Load	Heater	NEC Diversificati on	Heater Load	First 10KVA at 100%	Remainder at 40%	Total Load	Voltage	Load for Unit Service (AMPS)	Total Connected Load	Breaker Size
A1	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
A2	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
A3	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
A3 ALT	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
A4	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
B1	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
B1 ALT	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
B2	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
B3	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
C1	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
C1 ALT	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
C2	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
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C4	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
D1	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
D1 ALT	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
D1 ALT 2	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
GS	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
PH	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100
S1	445	3 VA	1335 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	24325 VA	3700 VA	65.00%	2405 VA	10000 VA	5730 VA	18135 VA	208 V	87.19	28025 VA	100

FEEDER SCHEDULE

MARK	OCP	SETS	NO. COND.	SIZE ALUM.	SIZE GRD.	CONDUIT
0.1	0 A	1	1		3/0 CU	2"
1	225 A	1	4	300 KCMIL	#2	2"
2	600 A	2	4	500 KCMIL	#2/0	3"
3	1000 A	3	4	600 KCMIL		4"
4	1200 A	4	4	500 KCMIL		3"
5	400 A	2	4	#4/0	#1	3"

APARTMENT PANEL FEEDER - TYPE SER ALUMINUM	
100A.: 2 - 2 - 2 - 6 UP TO 120 FT. 1 - 1 - 1 - 4 UP TO 150 FT. 0 - 0 - 0 - 4 UP TO 185 FT. 2/0 - 2/0 - 2/0 - 3 UP TP 235 FT.	110A.: 1 - 1 - 1 - 4 UP TO 135 FT. 0 - 0 - 0 - 4 UP TP 170 FT. 2/0 - 2/0 - 2/0 - 3 UP TO 215 FT.

NOTE:
- UNDERGROUND CONDUIT MATERIAL = SCH. 40 PVC.
- CONDUCTOR INSULATION = THHN/THWN.

PERMANENT PLACARDS SHALL BE POSTED AT EACH EXTERIOR SERVICE ENTRANCE AND METER BANK TO DISPLAY AREA SERVED.

SEE UNIT LOAD CALCS FOR APT PANEL BREAKER, 100A/2P, 110A/2P.

MULTI-FAMILY BUILDING LOAD ANALYSIS BLDG 1

Panel Unit Type (Connected Load)	Total Units Unit Quantity	Total Connected Load Sum of Units	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps
METER BANK 1-A	43	1,205,075 VA	1205	27%	325	904	0	904
A1-(28,025 VA)	3	84075 VA						
A2-(28,025 VA)	4	112100 VA						
A3-(28,025 VA)	4	112100 VA						
A3 ALT-(28,025 VA)	2	56050 VA						
B1-(28,025 VA)	3	84075 VA						
C1-(28,025 VA)	4	112100 VA						
C1 ALT-(28,025 VA)	4	112100 VA						
C2-(28,025 VA)	7	196175 VA						
C3-(28,025 VA)	4	112100 VA						
D1-(28,025 VA)	3	84075 VA						
D1 ALT-(28,025 VA)	1	28025 VA						
PH-(28,025 VA)	1	28025 VA						
S1-(28,025 VA)	3	84075 VA						
METER BANK 1-B	16	448,400 VA	448	39%	175	486	600	1086
A3-(28,025 VA)	6	168150 VA						
C1-(28,025 VA)	5	140125 VA						
GUEST SUITE-(28,025 VA)	1	28025 VA						
PH-(28,025 VA)	4	112100 VA						
METER BANK 1-C	35	980,975 VA	981	30%	294	817	0	817
A1-(28,025 VA)	4	112100 VA						
A3-(28,025 VA)	7	196175 VA						
B1 ALT-(28,025 VA)	4	112100 VA						
B2-(28,025 VA)	4	112100 VA						
C1-(28,025 VA)	8	224200 VA						
C4-(28,025 VA)	4	112100 VA						
S1-(28,025 VA)	4	112100 VA						
METER BANK 1-D	33	924,825 VA	925	31%	287	796	400	1196
A1-(28,025 VA)	4	112100 VA						
A2-(28,025 VA)	4	112100 VA						
A3-(28,025 VA)	8	224200 VA						
A3 ALT-(28,025 VA)	2	56050 VA						
B1-(28,025 VA)	2	56050 VA						
C1-(28,025 VA)	5	140125 VA						
C3-(28,025 VA)	3	84075 VA						
D1 ALT 2-(28,025 VA)	2	56050 VA						
PH-(28,025 VA)	1	28025 VA						
S1-(28,025 VA)	2	56050 VA						
METER BANK 1-E	38	1,064,950 VA	1065	29%	309	858		
A1-(28,025 VA)	3	84075 VA						
A3-(28,025 VA)	12	336300 VA						
B1-(28,025 VA)	3	84075 VA						
C1-(28,025 VA)	6	168150 VA						
C2-(28,025 VA)	7	196175 VA						
C3-(28,025 VA)	1	28025 VA						
C4-(28,025 VA)	3	84075 VA						
S1-(28,025 VA)	3	84075 VA						

MULTI-FAMILY BUILDING LOAD ANALYSIS BLDG 2

Panel Unit Type (Connected Load)	Total Units Unit Quantity	Total Connected Load Sum of Units	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps
METER BANK 2-F	34	952,850 VA	953	30%	286	794	0	794
A1-(28,025 VA)	3	84075 VA						
A2-(28,025 VA)	3	84075 VA						
A3-(28,025 VA)	13	364325 VA						
B1-(28,025 VA)	3	84075 VA						
C1-(28,025 VA)	3	84075 VA						
C2-(28,025 VA)	6	168150 VA						
S1-(28,025 VA)	3	84075 VA						
METER BANK 2-G	45	1,261,125 VA	1261	27%	341	946	500	1446
A1-(28,025 VA)	3	84075 VA						
A2-(28,025 VA)	7	196175 VA						
A3-(28,025 VA)	4	112100 VA						
A4-(28,025 VA)	3	84075 VA						
B3-(28,025 VA)	4	112100 VA						
C1-(28,025 VA)	11	308275 VA						
C1 ALT-(28,025 VA)	4	112100 VA						
C3-(28,025 VA)	3	84075 VA						
D1-(28,025 VA)	4	112100 VA						
PH-(28,025 VA)	2	56050 VA						
METER BANK 2-H	32	896,800 VA	897	31%	278	772	0	772
A1-(28,025 VA)	4	112100 VA						
A3-(28,025 VA)	14	392350 VA						
C1-(28,025 VA)	10	280250 VA						
S1-(28,025 VA)	4	112100 VA						
METER BANK 2-J	33	924,825 VA	925	31%	287	796	400	1196
A2-(28,025 VA)	3	84075 VA						
A3-(28,025 VA)	3	84075 VA						
B1-(28,025 VA)	3	84075 VA						
C1-(28,025 VA)	11	308275 VA						
C2-(28,025 VA)	6	168150 VA						
C3-(28,025 VA)	3	84075 VA						
D1-(28,025 VA)	4	112100 VA						

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F. 913.831.1563
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- 12.16.2022 - PROGRESS SET

△REVISIONS:

LS&A Lathrop Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

DATE: 01.20.2023
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ARCHITECTURE LANDSCAPE ARCHITECTURE ENERGY SERVICES
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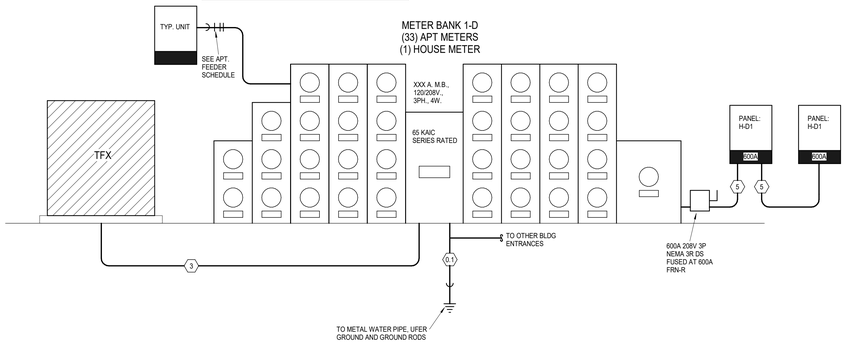
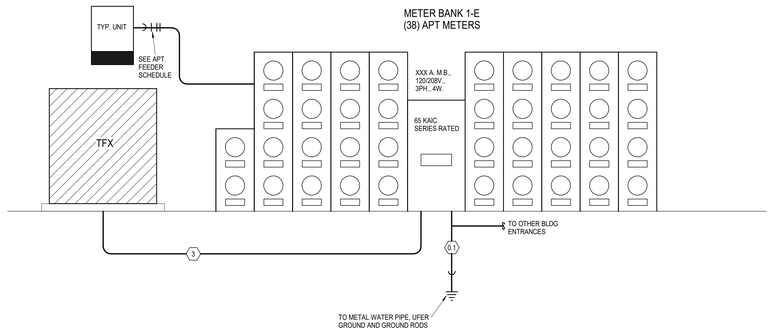
FEEDER SCHEDULE						
MARK	OCP	SETS	NO. COND.	SIZE ALUM.	SIZE GRD.	CONDUIT
0.1	0 A	1	1		3/0 CU	2"
1	225 A	1	4	300 KCMIL	#2	2"
2	600 A	2	4	500 KCMIL	#2/0	3"
3	1000 A	3	4	600 KCMIL		4"
4	1200 A	4	4	500 KCMIL		3"
5	400 A	2	4	#4/0	#1	3"

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



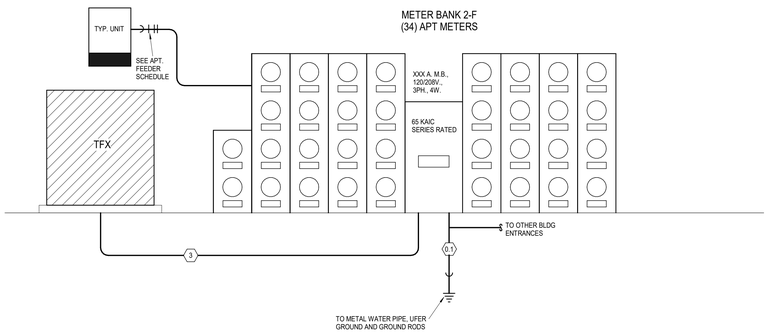
1 METER BANK 1-D ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



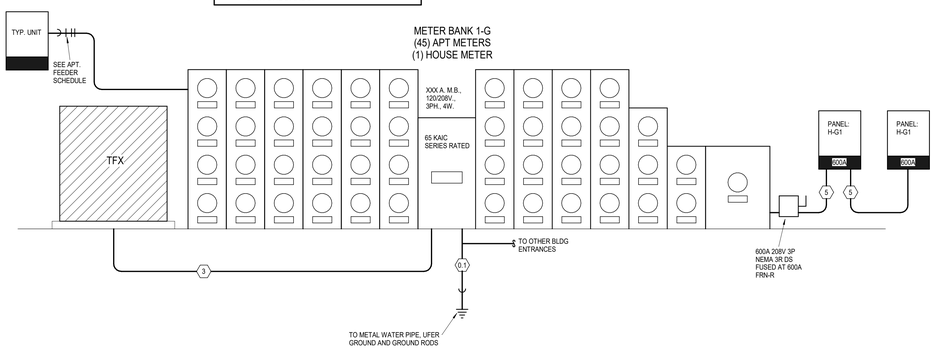
2 METER BANK 1-E ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



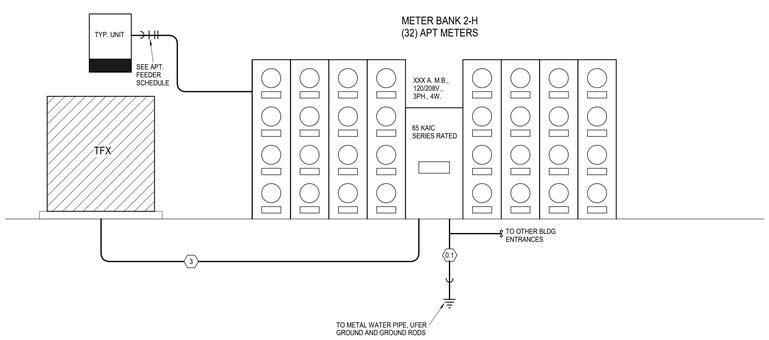
3 METER BANK 2-F ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



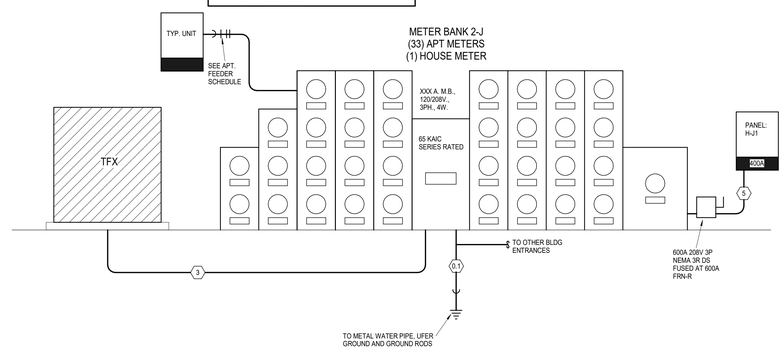
4 METER BANK 2-G ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



5 METER BANK 2-H ELECTRICAL RISER
NOT TO SCALE

NOTES:
1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.



6 METER BANK 2-J ELECTRICAL RISER
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LS&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: lsapa@lsapa.com
LSA PROJECT NO. 2204061

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