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	MR101/C 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

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 SD	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		
HWS	HOT WATER SUPPLY		
HWR	HOT WATER RETURN		

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

TELECOMMUNICATIONS SYMBOLS LEGEND:

SYMBOL	DESCRIPTION	REMARKS
D201/A	TELECOMMUNICATIONS OUTLET WITH ROOM AND TYPE IDENTIFIER	1
W	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.

ELECTRICAL SYMBOLS LEGEND

	CONDUIT CONCEALED IN CEILING OR WALL. 2 HOT + GROUND.		THERMOSTAT
	CONDUIT CONCEALED IN FLOOR SLAB		LOCKABLE GUARD
	EXPOSED CONDUIT		JUNCTION BOX
	HOMERUN - ARROW INDICATES CKT., LINES INDICATE WIRES		SWITCH - SINGLE POLE
	GROUNDING ROD	3	SWITCH - 3-WAY
	SINGLE RECEPTACLE	4	SWITCH - 4-WAY
	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	E	INDICATES EXISTING DEVICE
	FUSIBLE SWITCH (BUSSMAN SSU)	EDF	ELECTRIC DRINKING FOUNTAIN
	DISCONNECT SWITCH (D.S.)	NL	NIGHTLIGHT FIXTURE, WIRED HOT
	COMBINATION MOTOR STARTER (CMS)	WP	WEATHERPROOF
R	RELAY	AFCI	ARC FAULT CIRCUIT INTERRUPTER
	FLOOR BOX		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.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.22
Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAMONTE
NUMBER 2010021351
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO.: 2104043

SHEET TITLE

COVER SHEET

SHEET NUMBER

ME-000

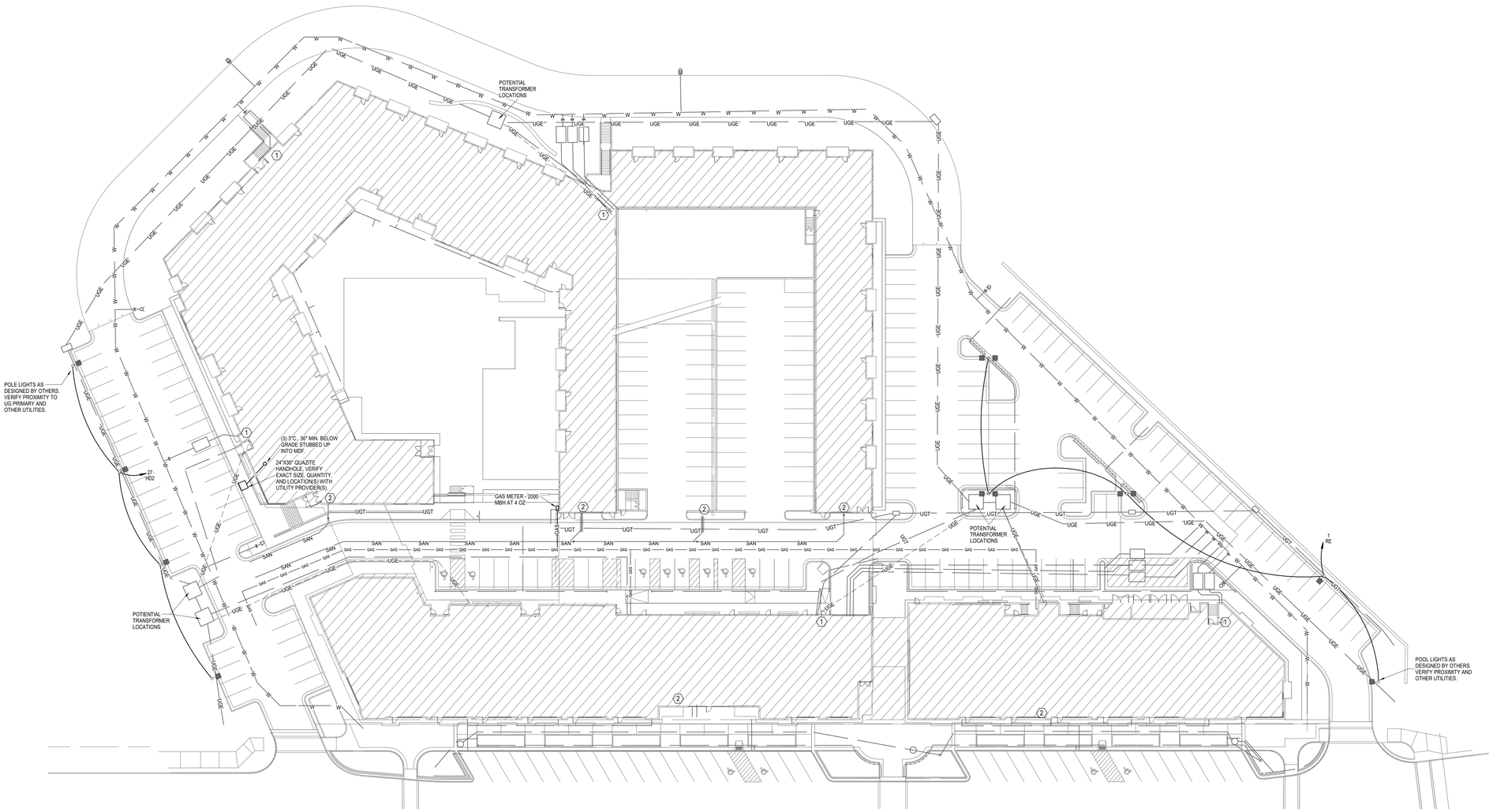
NOTES:

1. COORDINATE WITH CIVIL PLANS FOR EXACT LOCATIONS OF UTILITIES, SITE FEATURES AND GRADE.
2. COORDINATE WITH UTILITY PROVIDERS, INCLUDE ALL REQUIREMENTS AND FEES WITHIN THE BID WORK. IF NO FEE IS AVAILABLE, PROVIDE AN ALLOWANCE AND LIST ON BID SUBMISSION.
3. TRANSFORMER LOCATIONS ARE AS SUGGESTED AND PREFERRED. POWER COMPANY WILL MAKE FINAL DETERMINATION.
4. FOR ANY GAS SERVICES, PROVIDE STEEL RISER, SHUT-OFF AND APPROPRIATE PRV AT APPLIANCES IF APPROPRIATE.
5. ALL SITE LIGHTING IS #10 WIRE IN 1" MIN. PVC CONDUIT AND ROUTE THROUGH PHOTOCELL/TIMER.

LEGEND:

(1) WATER/FIRE SERVICE ENTRANCE - SEE CIVIL.

(2) SANITARY SEWER EXIT POINT - SEE CIVIL.



1 SITE PLAN
1" = 30'-0"

PARAGON STAR NORTH VILLAGE

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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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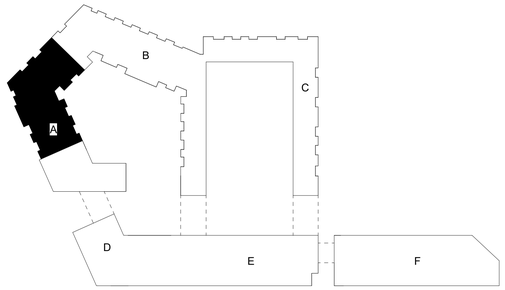
LSA PROJECT NO. 2104043

SHEET TITLE

SITE PLAN

SHEET NUMBER

ME-001



1 **BUILDING A FIRST FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

NORTH

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

PARAGON STAR NORTH VILLAGE

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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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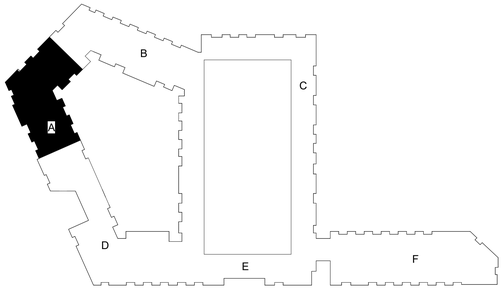
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING A FIRST FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.11A



NOTES:

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3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

1 BUILDING A SECOND FLOOR PLAN
PLUMBING
1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
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Project No.:	18017,19050.07,19050.08
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2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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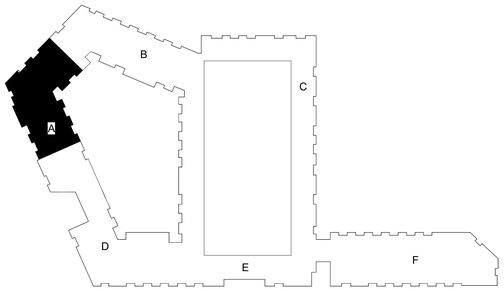
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING A SECOND FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.12A



1 BUILDING A THIRD FLOOR PLAN

PLUMBING

1/8" = 1'-0"

NORTH

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

PARAGON STAR NORTH VILLAGE

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2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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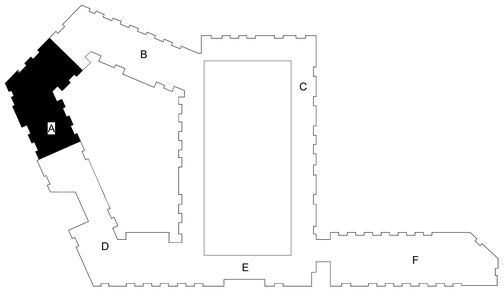
LSA PROJECT NO. 2104043

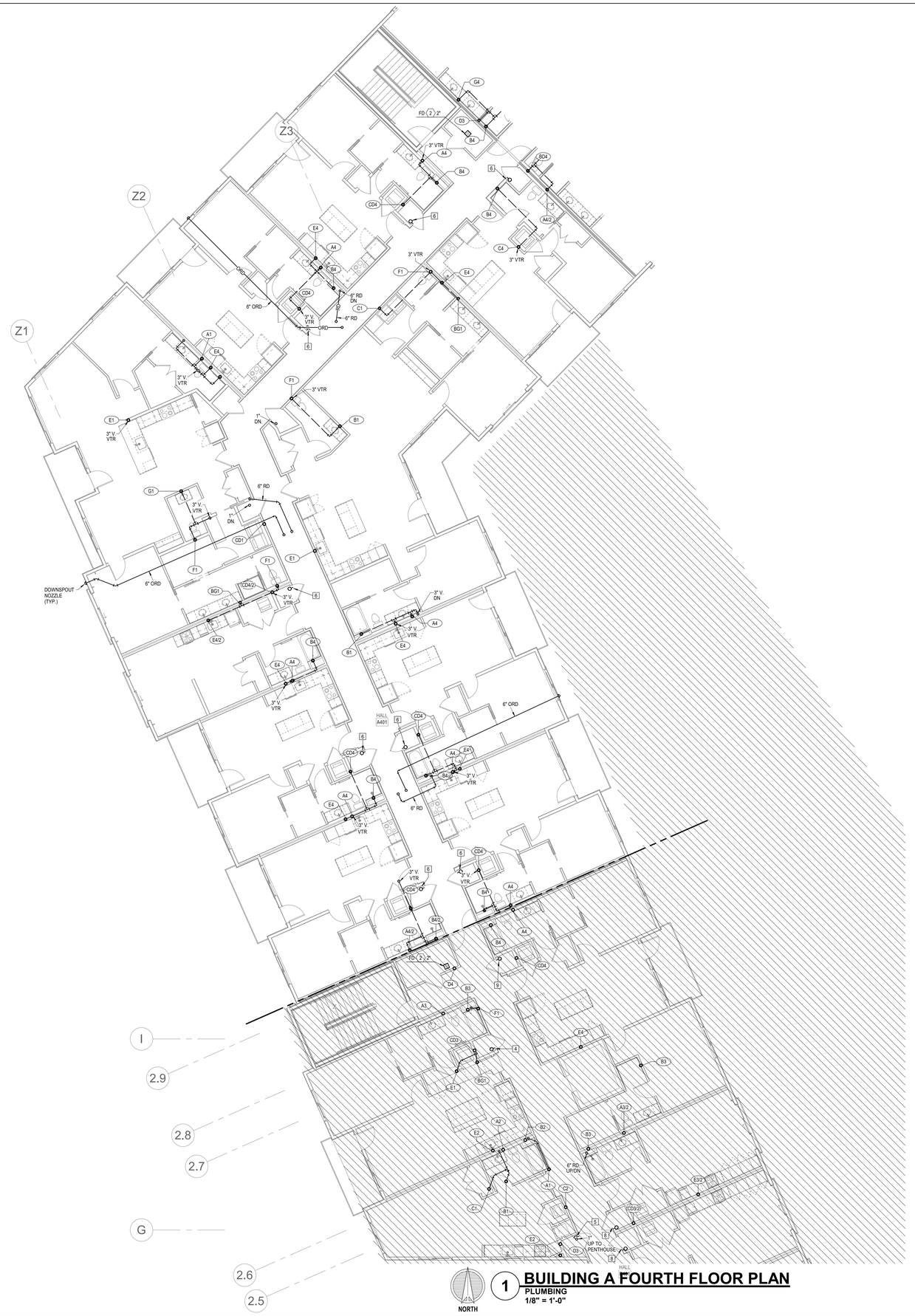
SHEET TITLE

BUILDING A THIRD FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.13A





NORTH

1 BUILDING A FOURTH FLOOR PLAN
PLUMBING
1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

PARAGON STAR NORTH VILLAGE

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No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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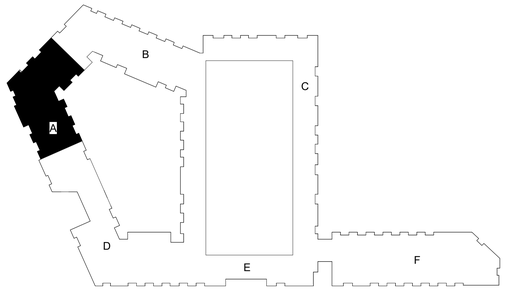
LSA PROJECT NO. 2104043

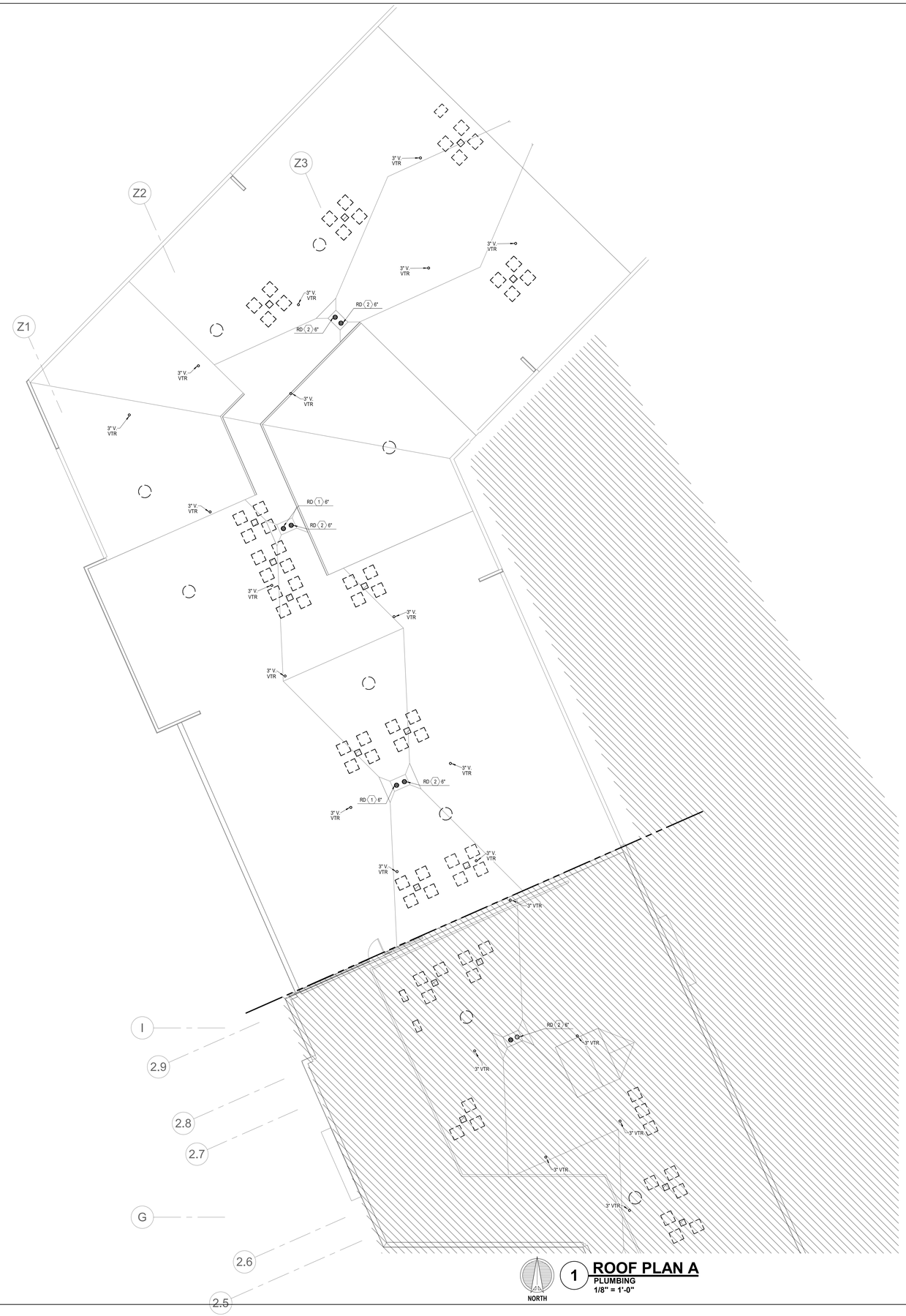
SHEET TITLE

BUILDING A FOURTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.14A





1 **ROOF PLAN A**
PLUMBING
1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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. 2104043

SHEET TITLE

ROOF PLAN A - PLUMBING

SHEET NUMBER

P1.15A

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
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11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

1 **BUILDING B 1ST FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

NORTH

7/25/2022 12:15:12 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER PE-2010018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B FIRST FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.21B

NOTES:

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NORTH

1 BUILDING B 2ND FLOOR PLAN

PLUMBING

1/8" = 1'-0"

7/25/2022 12:15:17 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

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Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B SECOND FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.22B

NOTES:

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NORTH

1 BUILDING B 3RD FLOOR PLAN

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
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Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B THIRD FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.23B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

1 **BUILDING B 4TH FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

NORTH

7/25/2022 12:15:27 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2004018744
PROFESSIONAL ENGINEER
7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B FOURTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.24B

NOTES:

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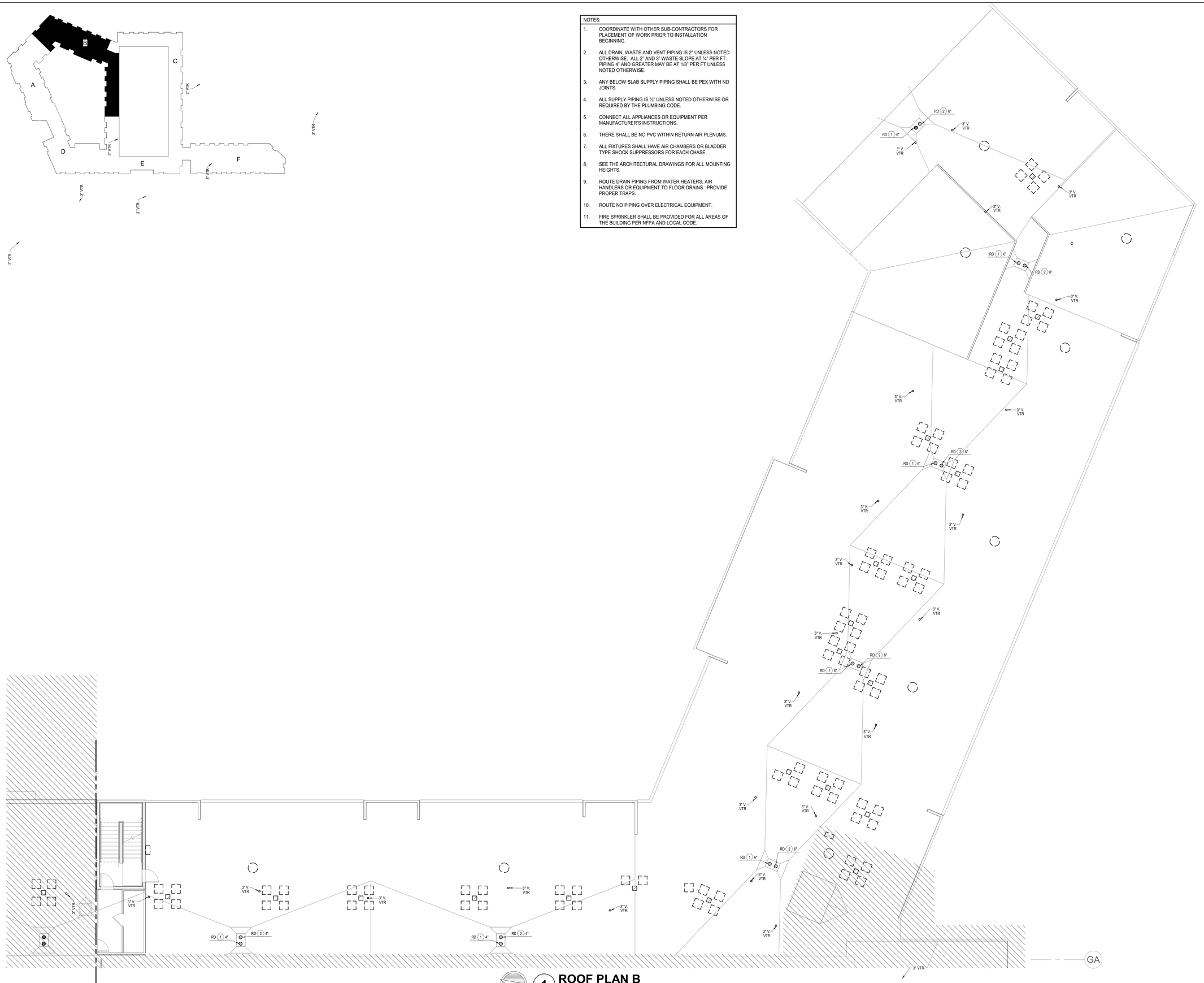


1 **ROOF PLAN B**
PLUMBING
1/8" = 1'-0"

7/25/2022 12:15:30 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

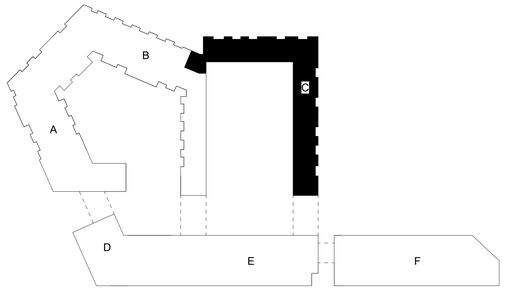
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN B - PLUMBING

SHEET NUMBER

P1.25B



NOTES:

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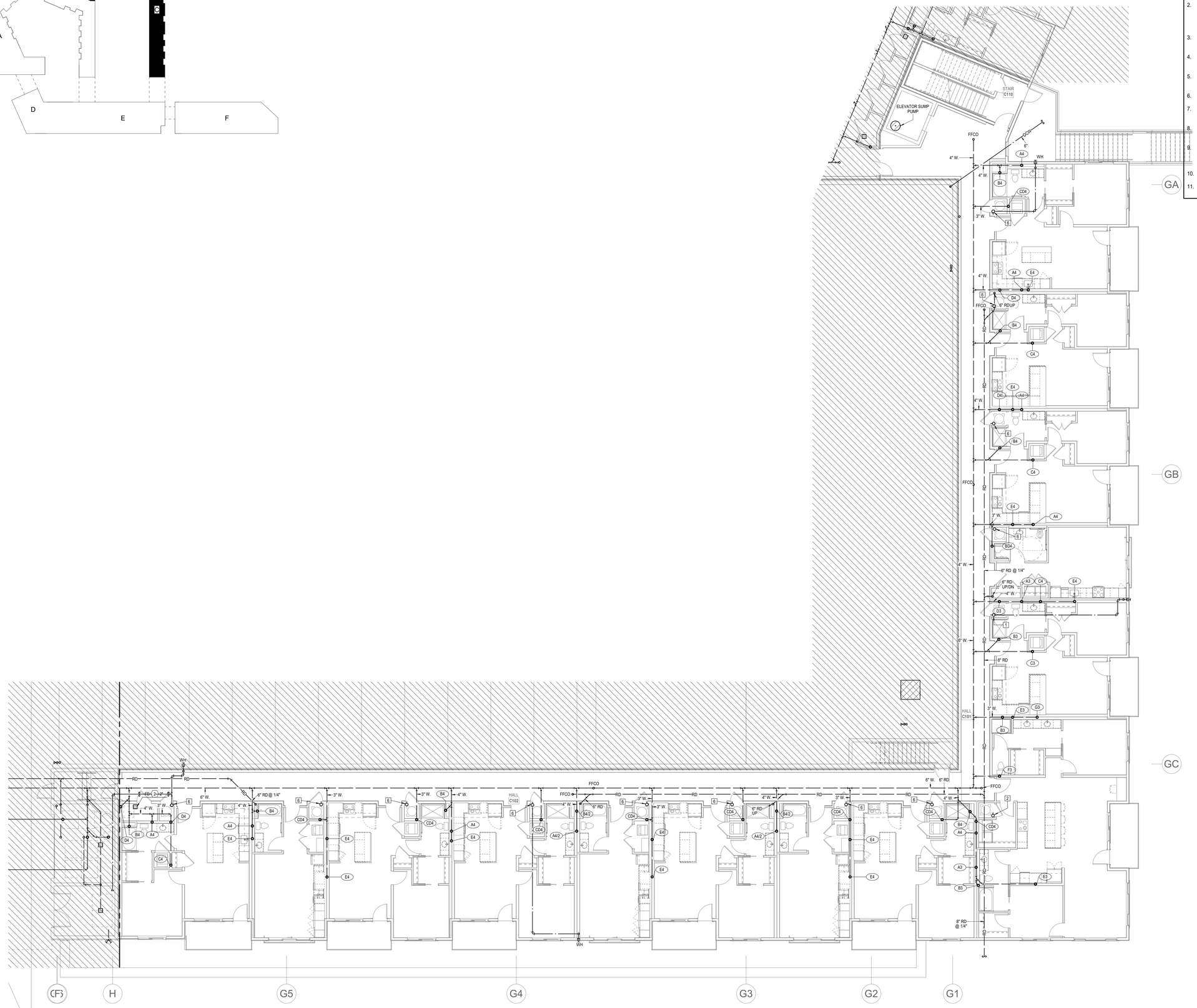

1 **BUILDING C 1ST FLOOR PLAN**
PLUMBING
1/8" = 1'-0"
NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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2	07.11.22	ADDENDUM 1
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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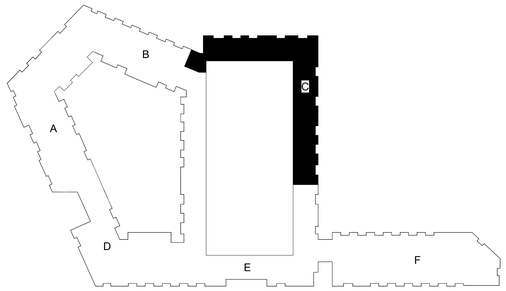
LSA PROJECT NO. 2104043

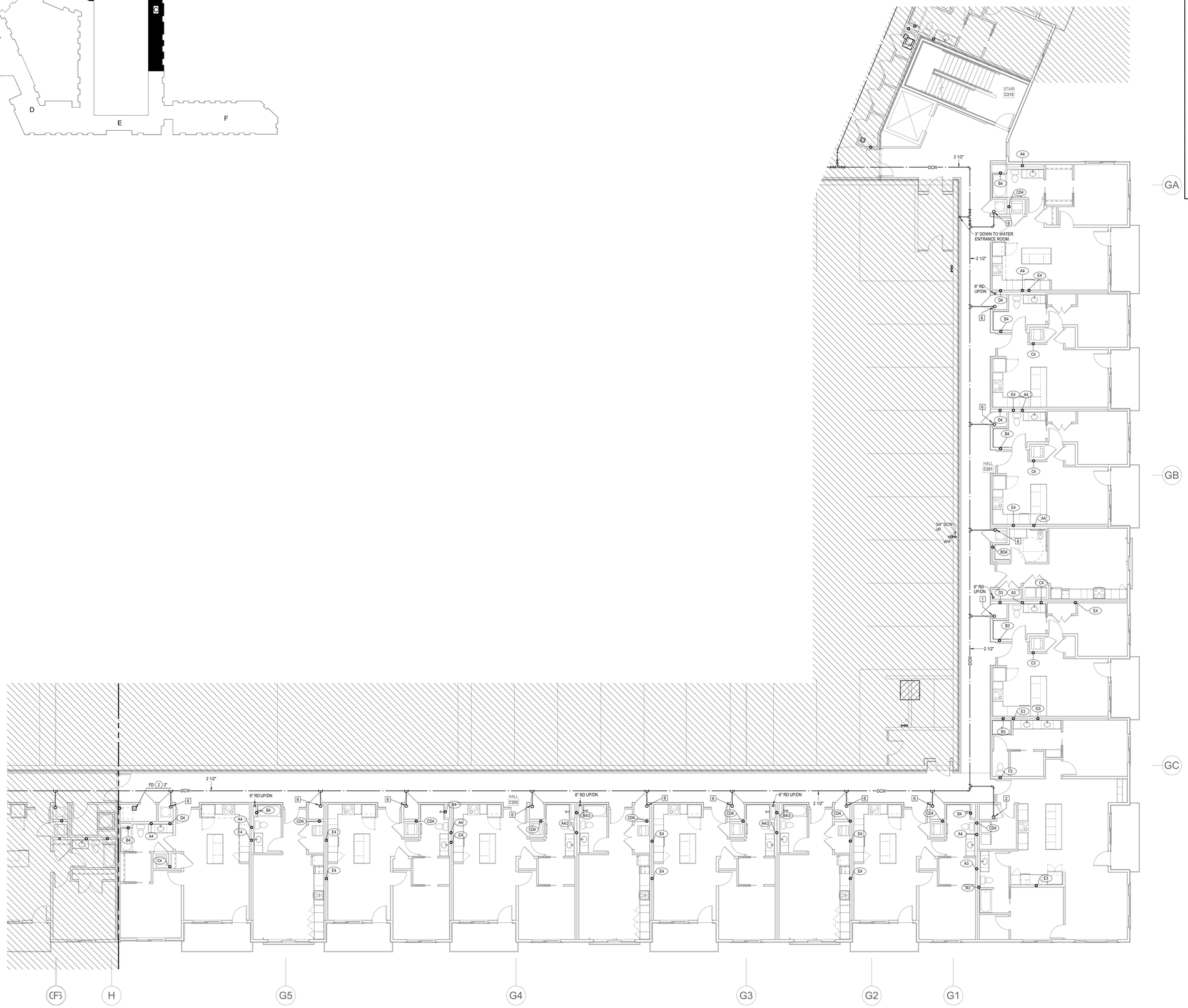
SHEET TITLE

BUILDING C FIRST FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.31C





NOTES:

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NORTH

1 BUILDING C 2ND FLOOR PLAN

PLUMBING
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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2	07.11.22	ADDENDUM 1
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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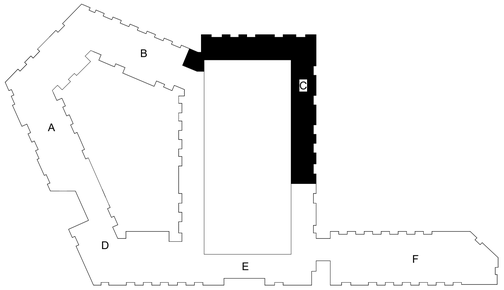
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING C SECOND FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.32C



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NORTH

1 BUILDING C 3RD FLOOR PLAN

PLUMBING

1/8" = 1'-0"

7/25/2022 12:15:43 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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2	07.11.22	ADDENDUM 1
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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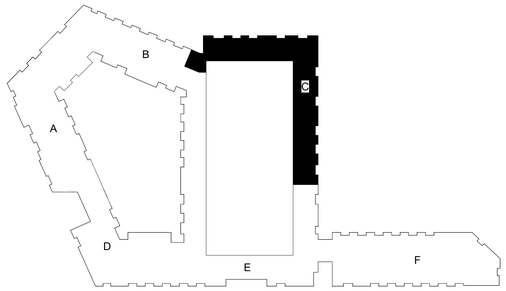
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING C THIRD FLOOR PLAN - PLUMBING

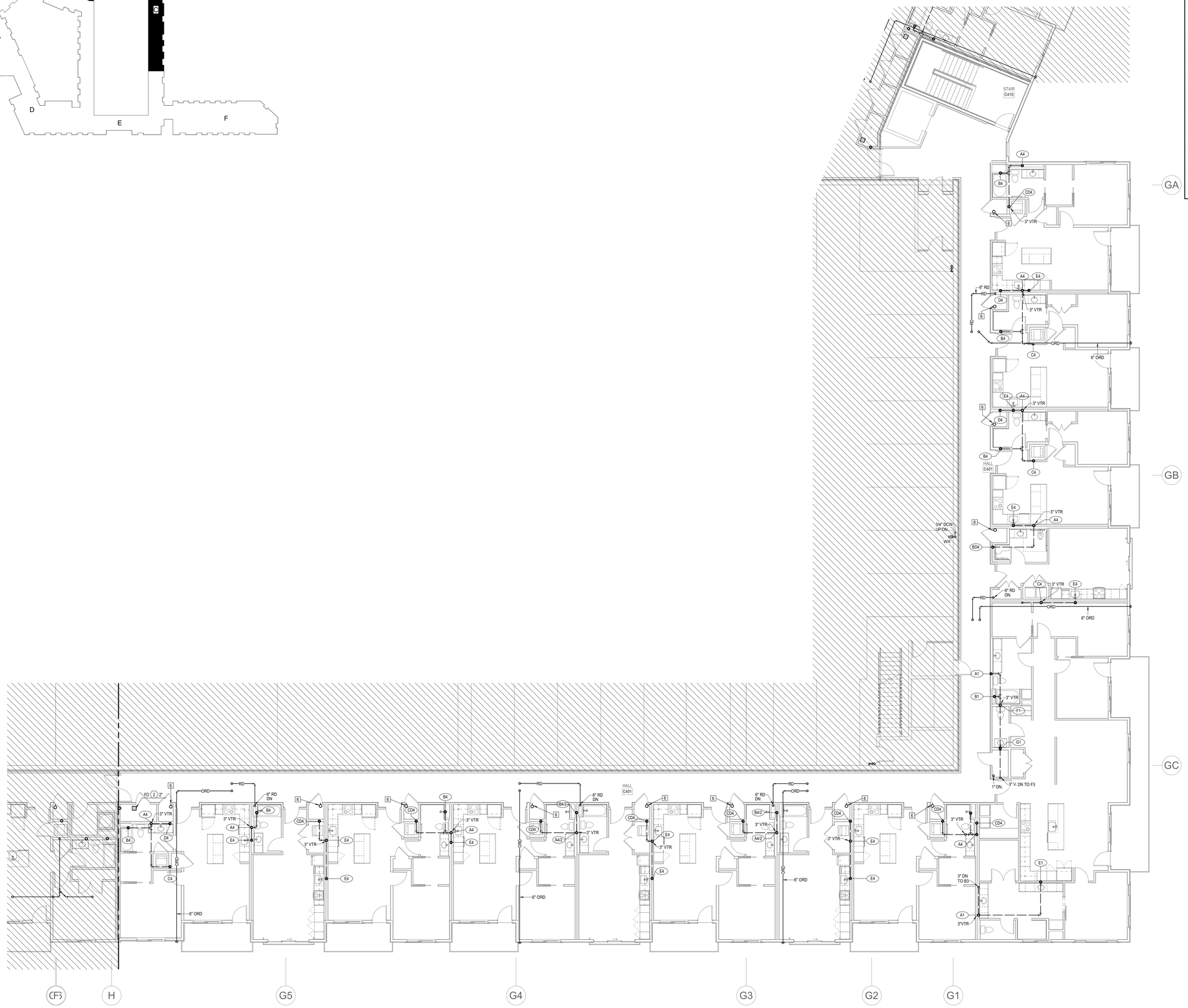
SHEET NUMBER

P1.33C



NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



NORTH

1 BUILDING C 4TH FLOOR PLAN

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
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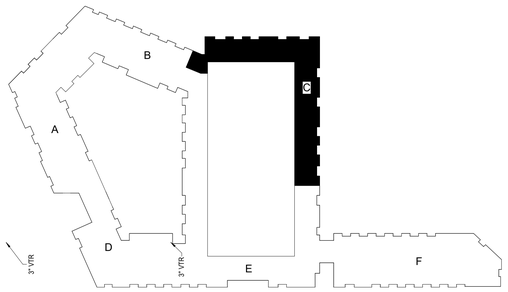
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

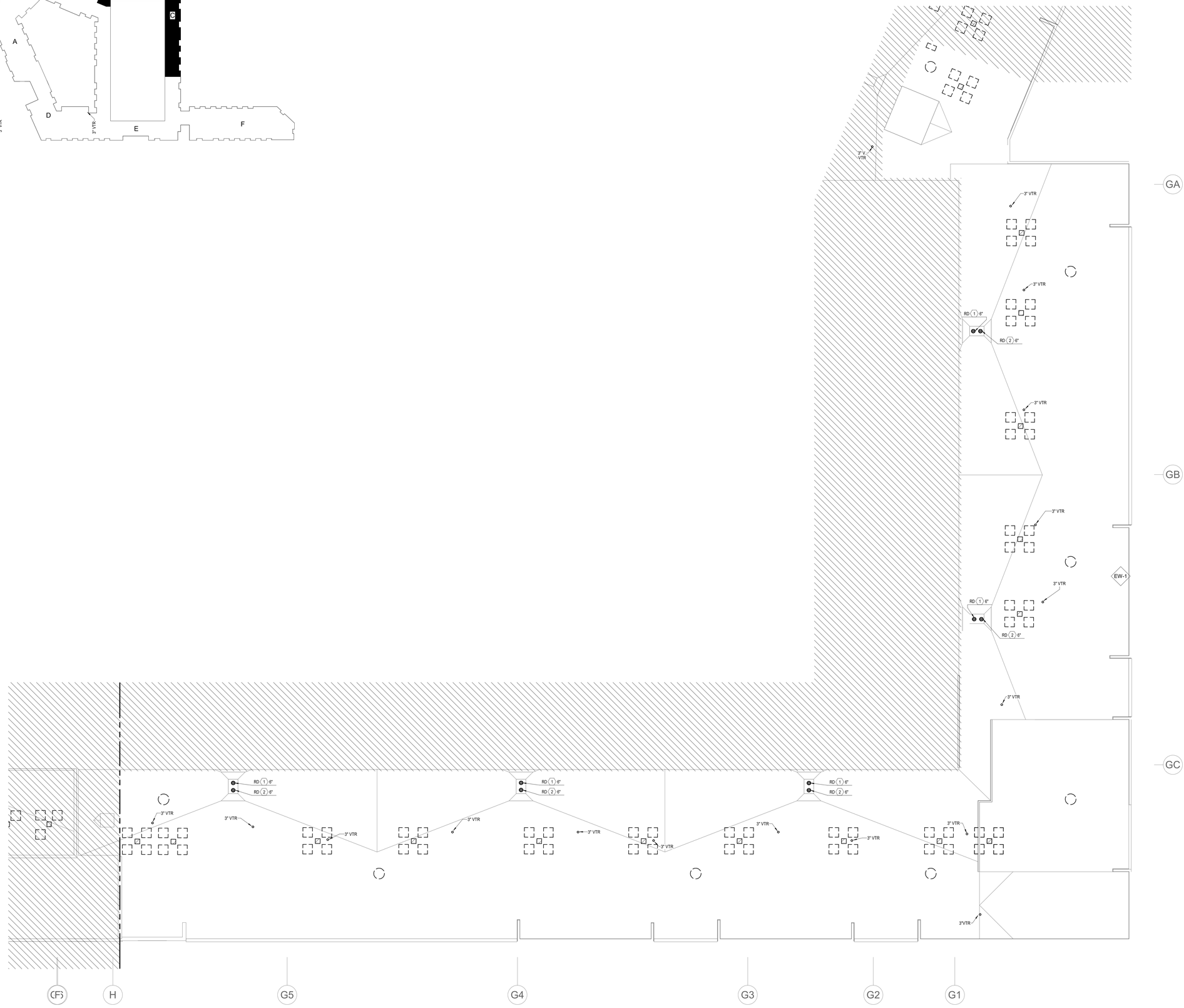
SHEET TITLE

BUILDING C FOURTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.34C





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10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

NORTH

1 ROOF PLAN C
PLUMBING
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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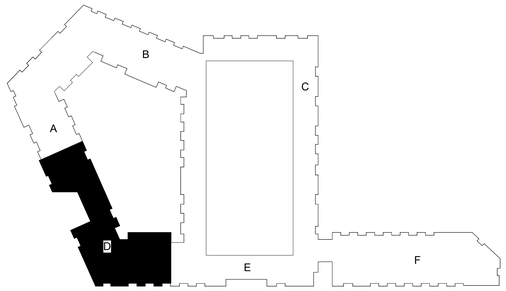
Telephone: (785) 233-3222
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN C - PLUMBING

SHEET NUMBER

P1.35C



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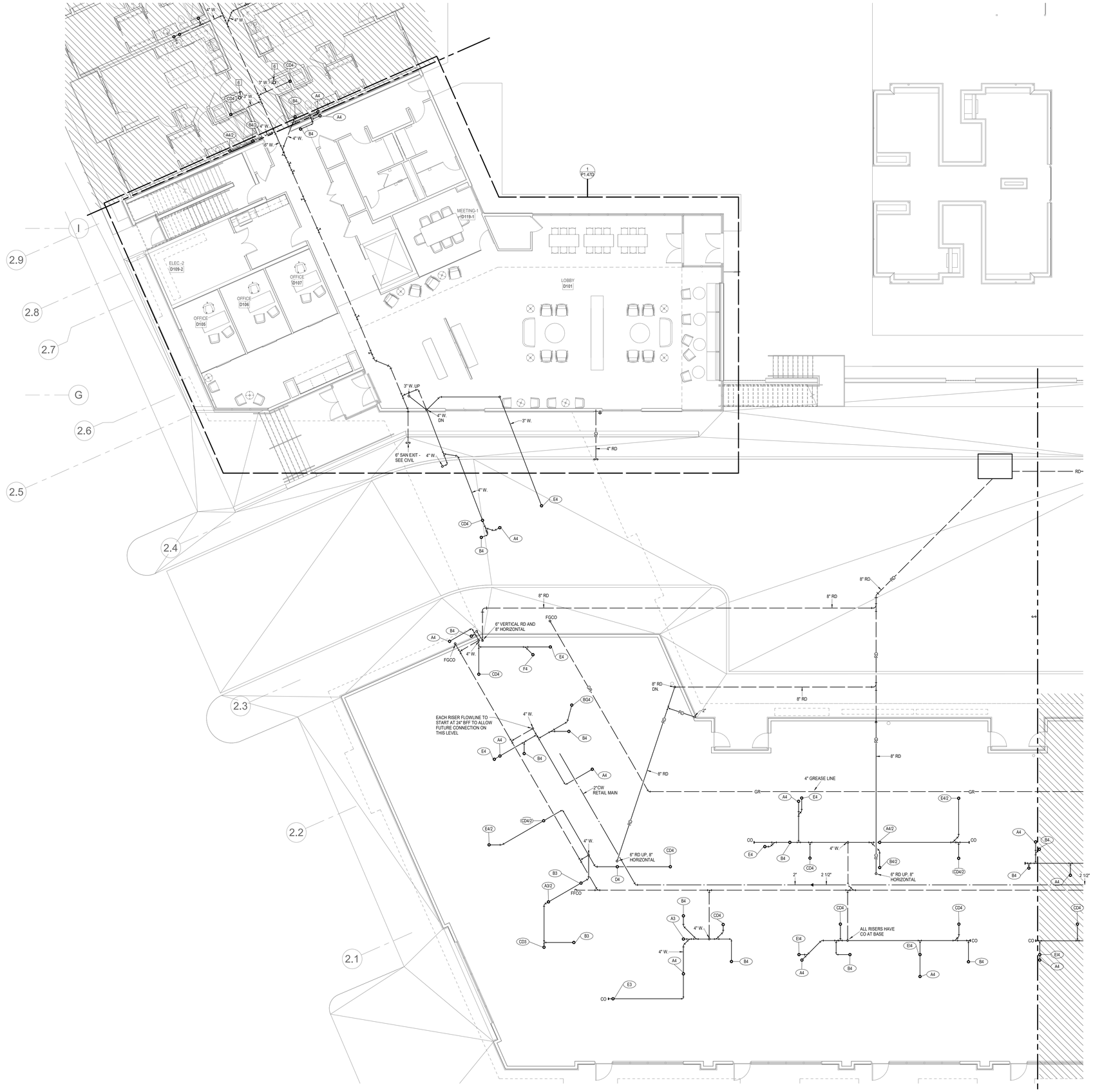

NORTH

1 **BUILDING D FIRST FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

7/25/2022 12:15:54 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2010019772
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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9625 College Boulevard, Suite 102
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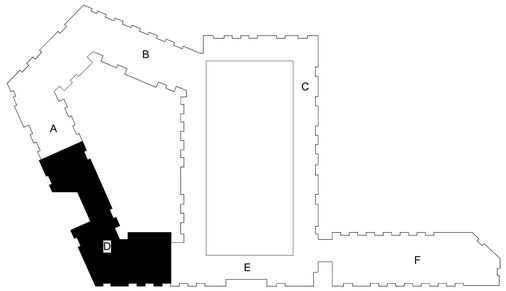
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D FIRST FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.41D



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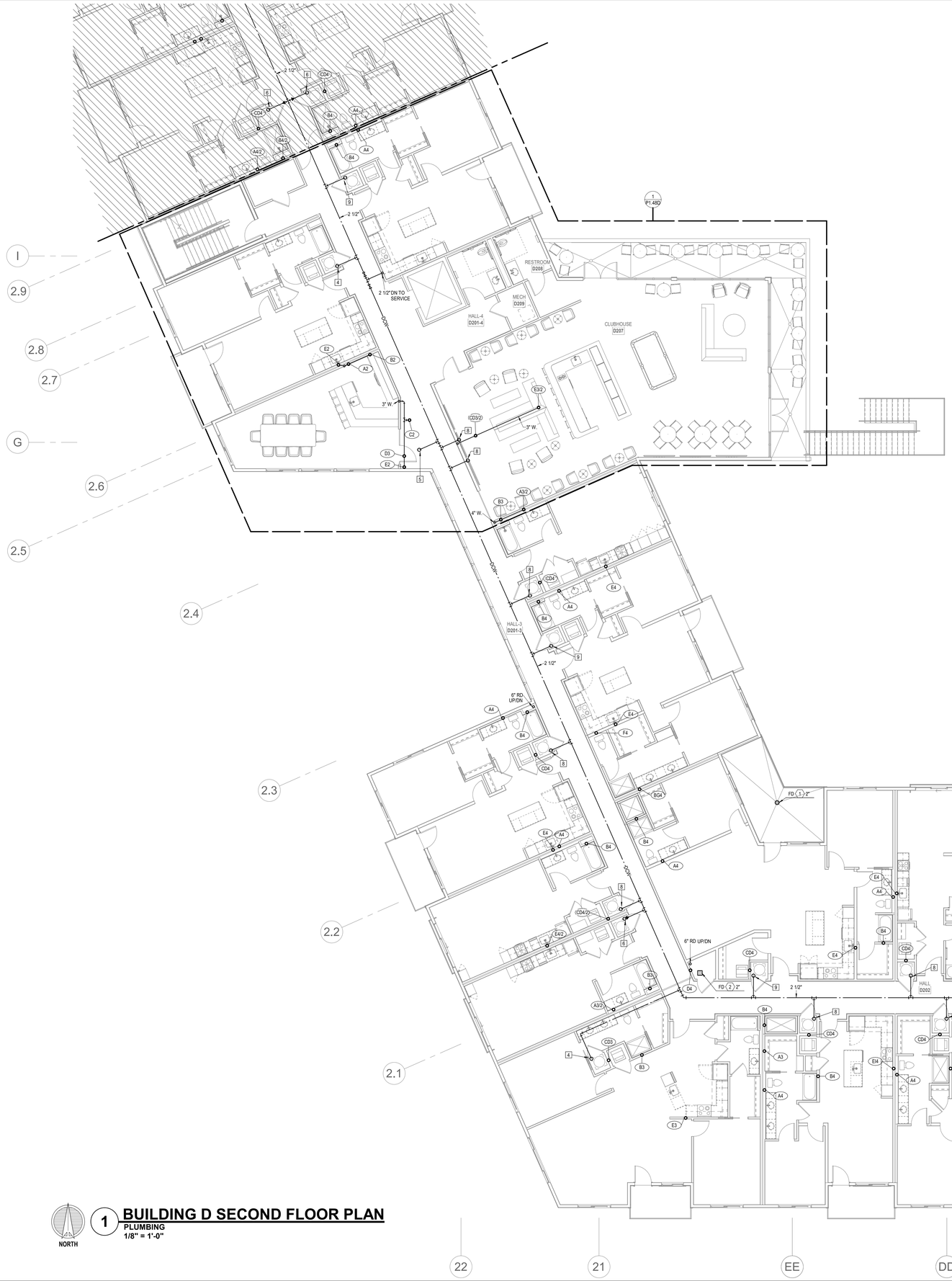

1 **BUILDING D SECOND FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

NORTH

7/25/2022 12:15:58 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2010018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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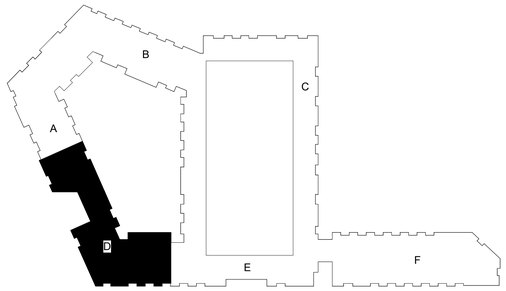
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D SECOND FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.42D



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11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

NORTH

1 **BUILDING D THIRD FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

7/25/2022 12:16:02 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010043104
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

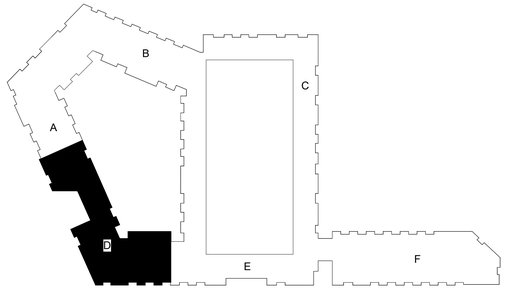
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D THIRD FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.43D



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8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

1 BUILDING D FOURTH FLOOR PLAN

PLUMBING

1/8" = 1'-0"

NORTH

7/25/2022 12:16:06 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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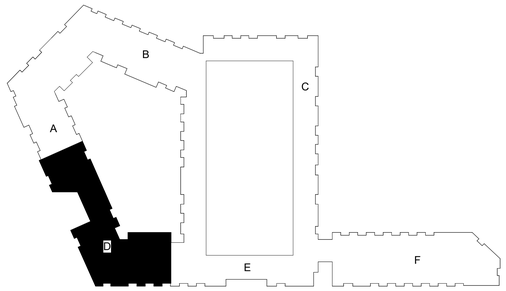
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D FOURTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.44D



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NORTH

1 BUILDING D FIFTH FLOOR PLAN

PLUMBING

1/8" = 1'-0"

7/25/2022 12:16:11 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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2	07.11.22	ADDENDUM 1
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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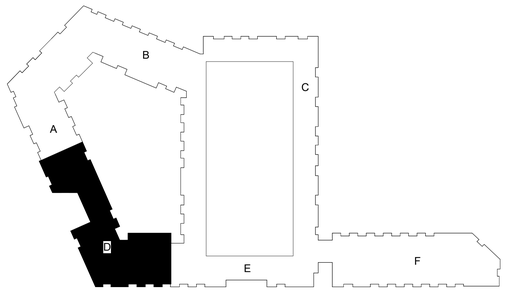
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D FIFTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.45D



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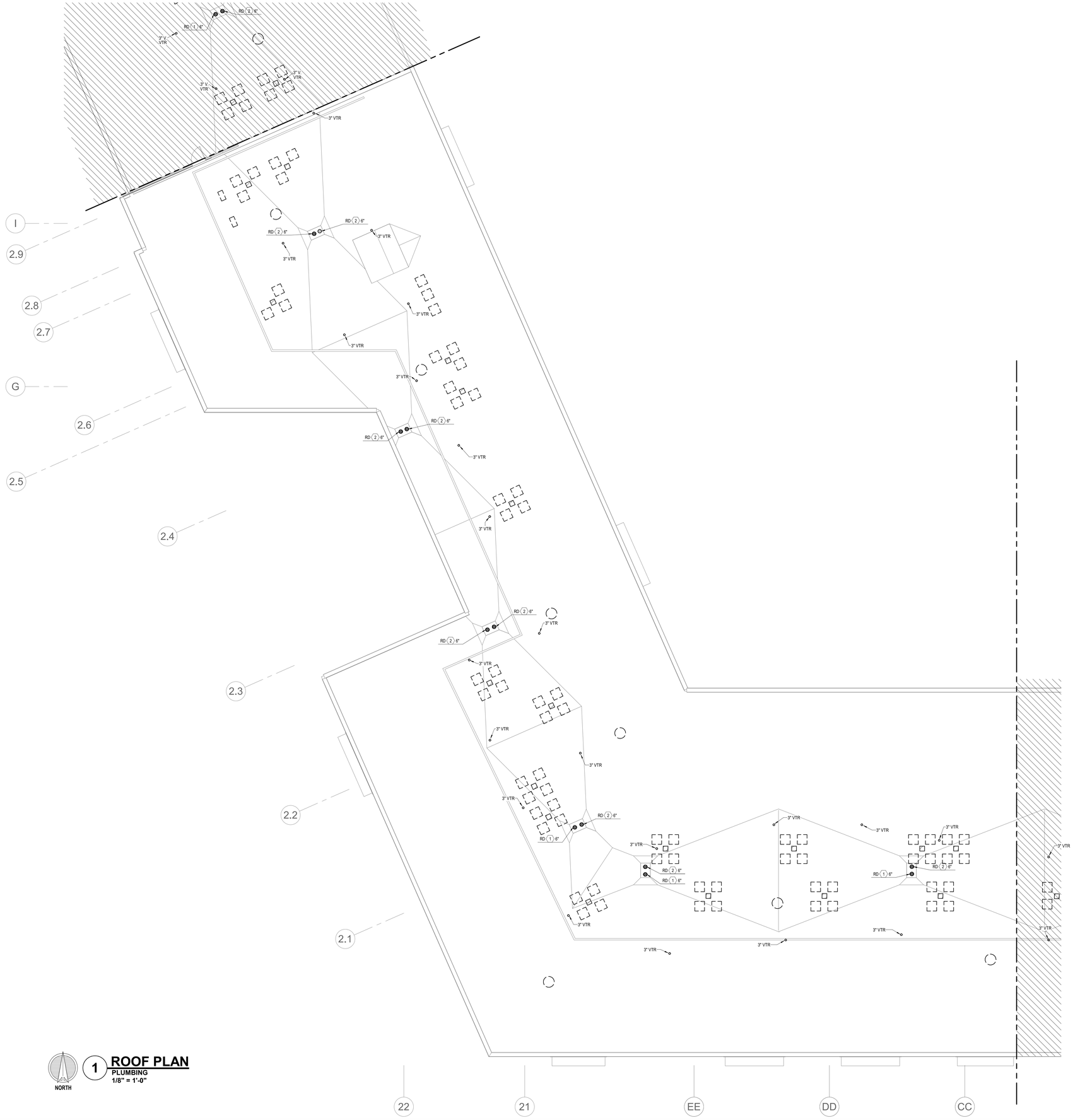


NORTH

1 **ROOF PLAN**
PLUMBING
1/8" = 1'-0"

7/25/2022 12:16:13 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8626 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210404

SHEET TITLE

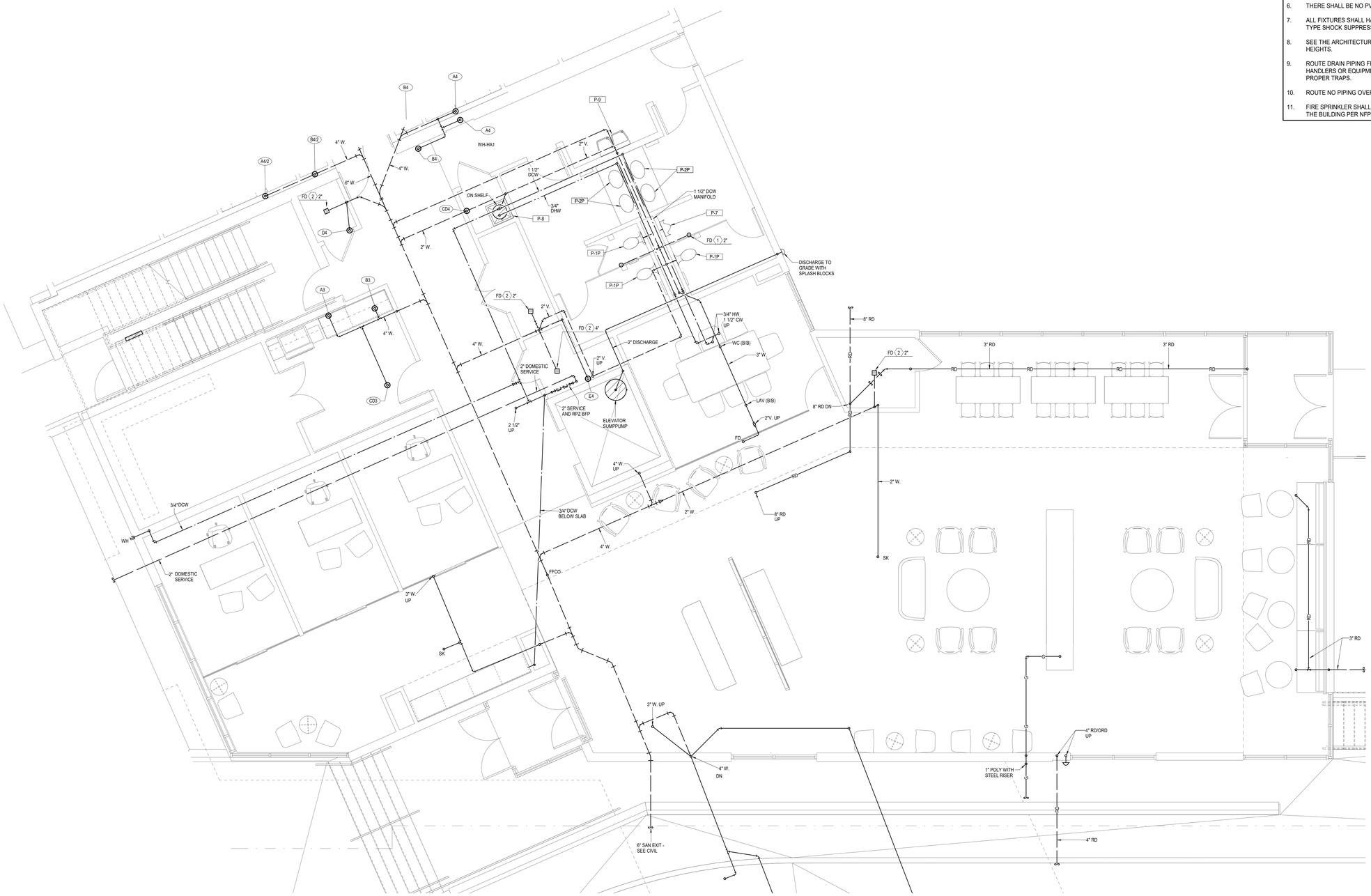
ROOF PLAN D - PLUMBING

SHEET NUMBER

P1.46D

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



NORTH

1 PARTIAL FIRST FLOOR PLAN

PLUMBING

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

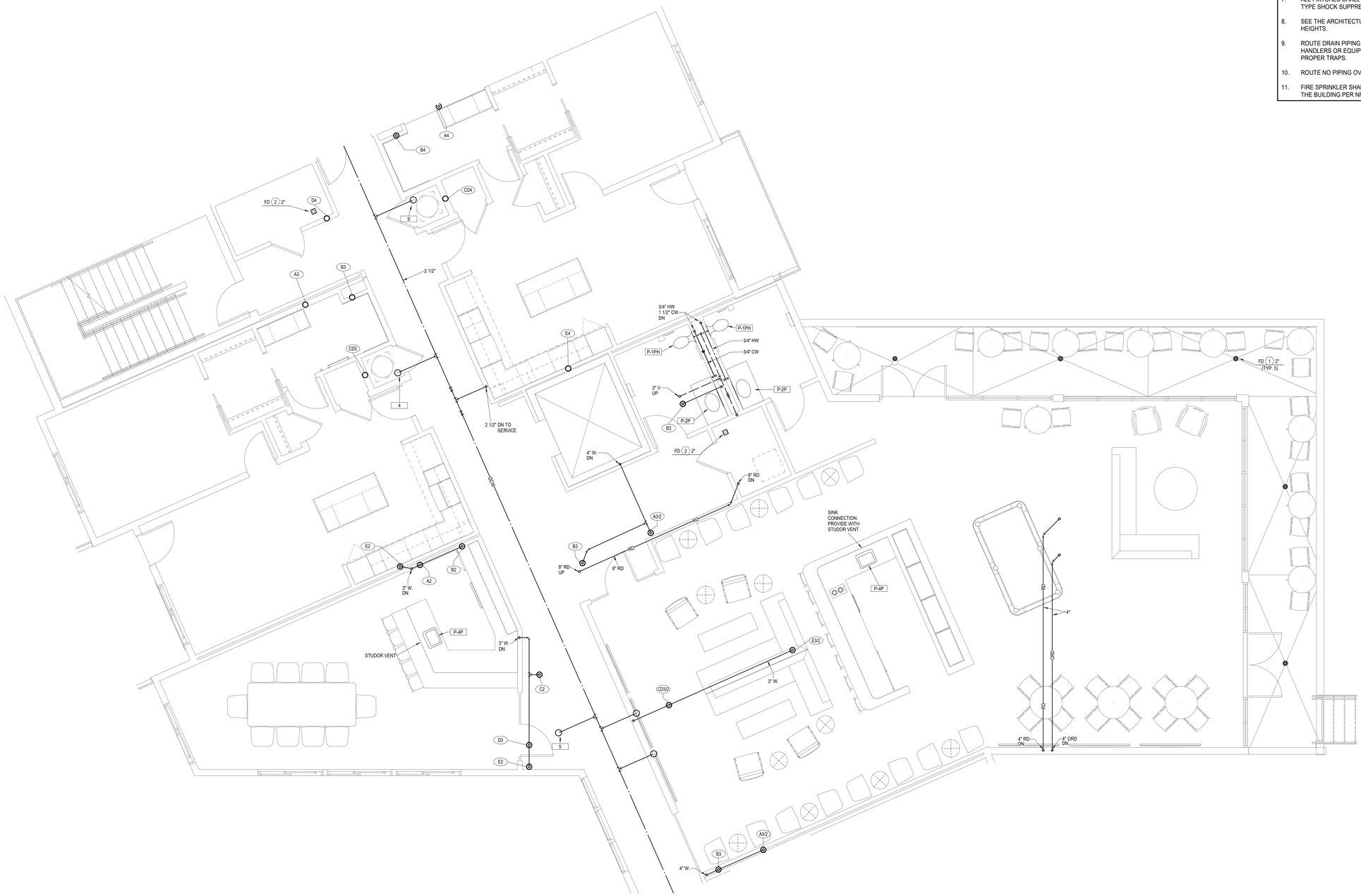
BUILDING D FIRST FLOOR PARTIAL PLAN - PLUMBING

SHEET NUMBER

P1.47D

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



1 PARTIAL SECOND FLOOR PLAN

PLUMBING

1/4" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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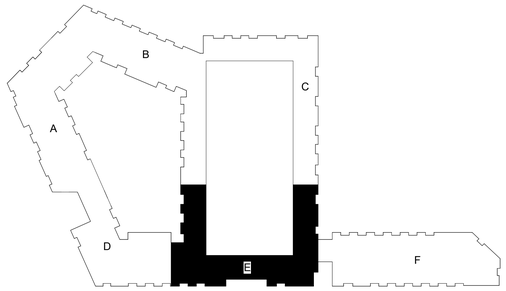
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D SECOND FLOOR PARTIAL PLAN - PLUMBING

SHEET NUMBER

P1.48D



NOTES:

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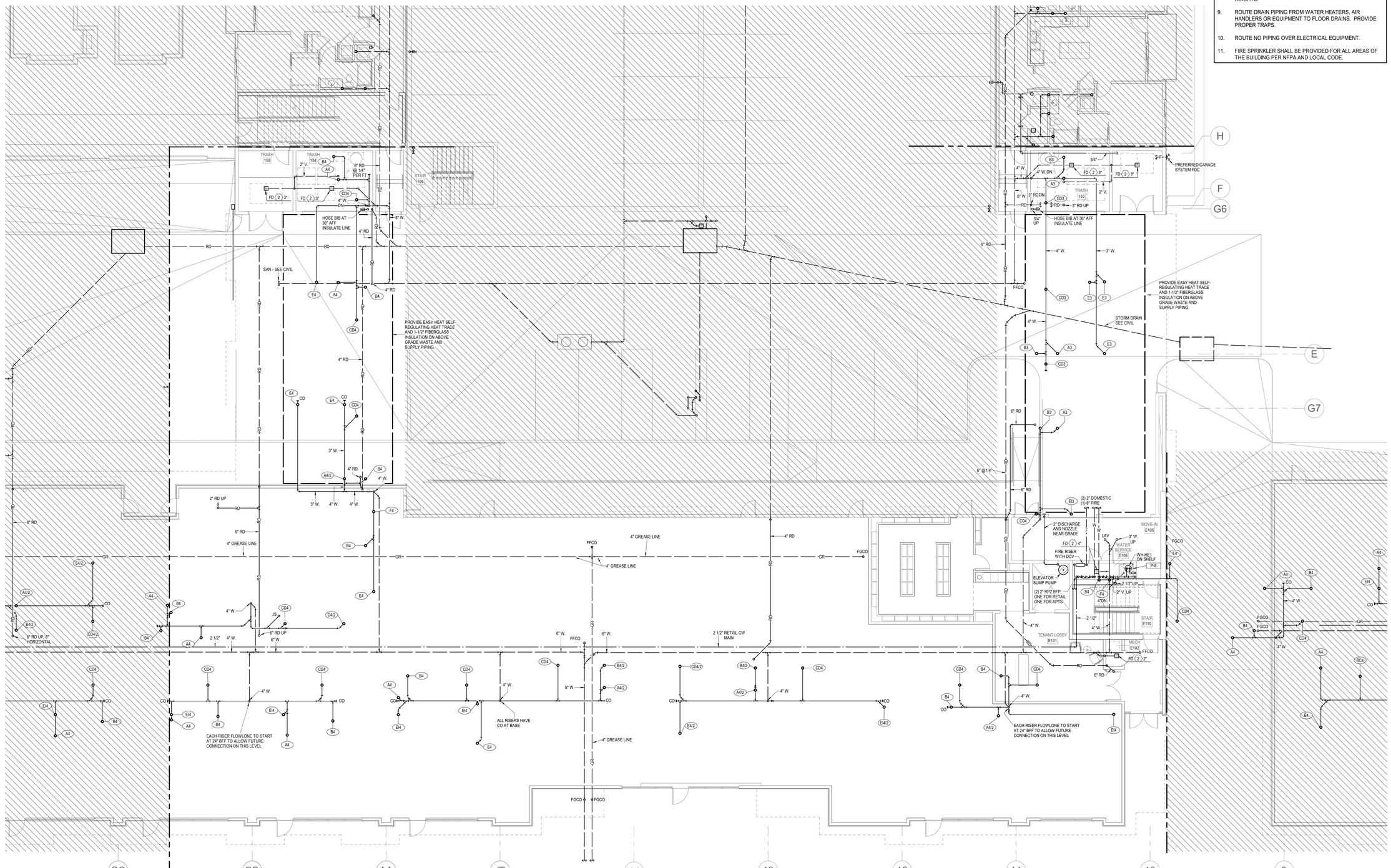
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



1 **BUILDING E FIRST FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

NORTH

7/25/2022 12:16:22 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010043704
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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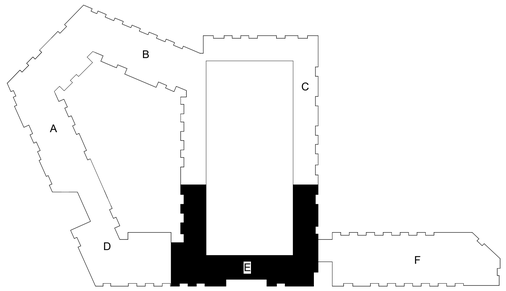
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING E FIRST FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.51E



NOTES:

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8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
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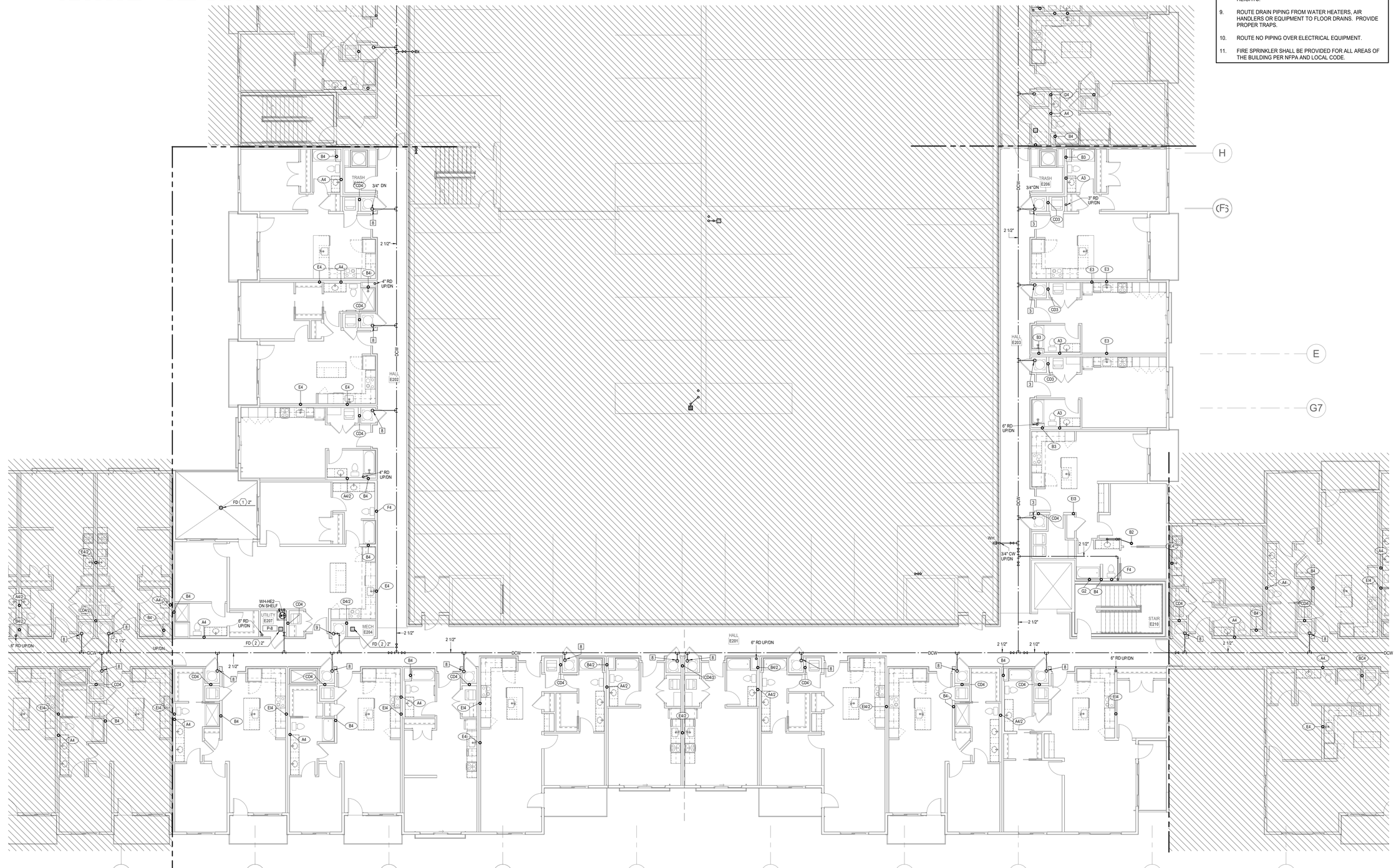
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



1 BUILDING E SECOND FLOOR PLAN

PLUMBING

1/8" = 1'-0"

NORTH

7/25/2022 12:16:27 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2006018766
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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3639 SW Summerfield Drive, Suite A
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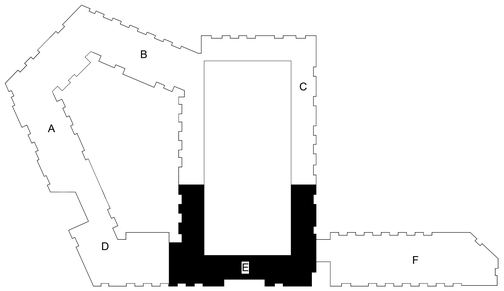
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING E SECOND FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.52E



NOTES:

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8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
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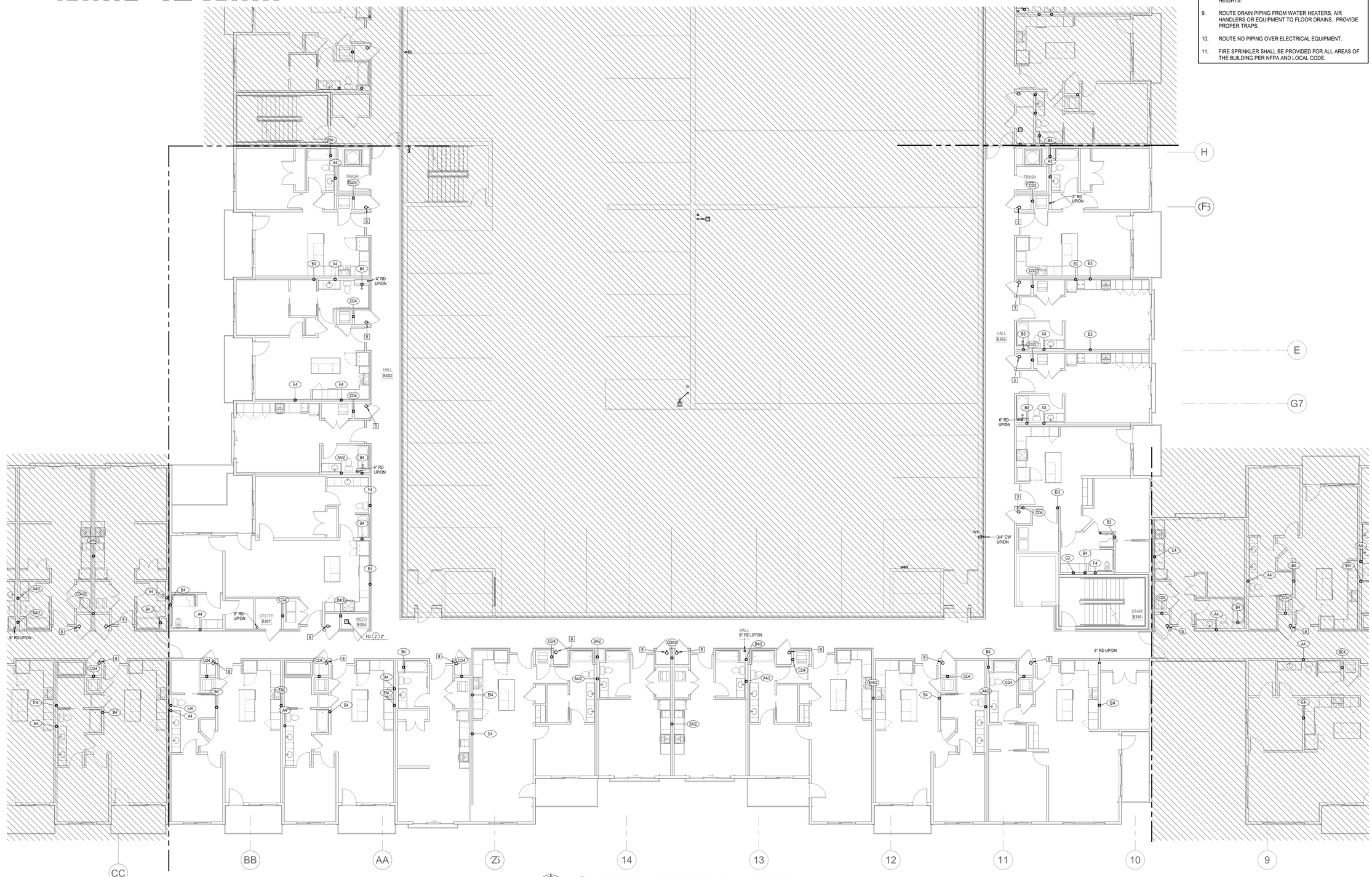
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



NORTH

1 **BUILDING E THIRD FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2007018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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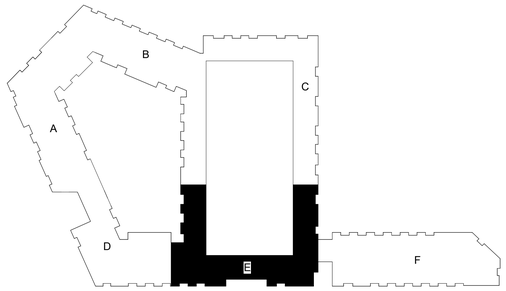
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210403

SHEET TITLE

BUILDING E THIRD FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.53E



NOTES:

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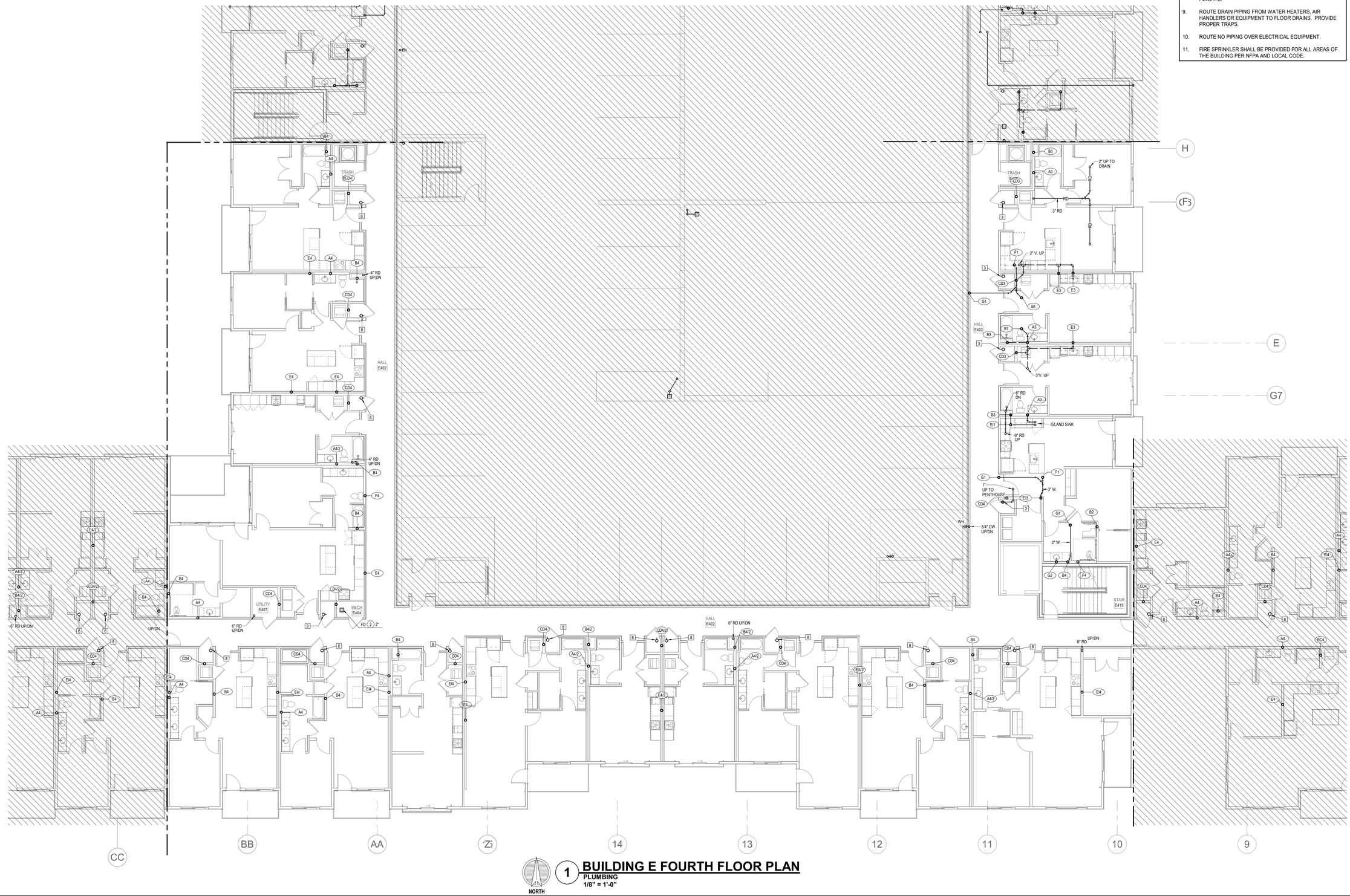
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS ½" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



1 BUILDING E FOURTH FLOOR PLAN

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

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2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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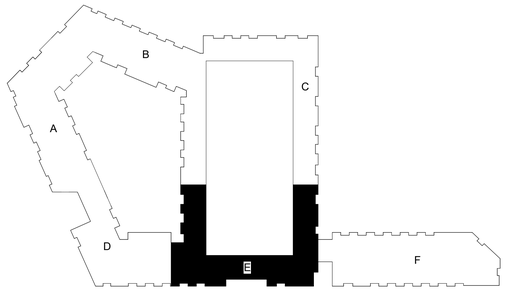
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING E FOURTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.54E



NOTES:

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5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
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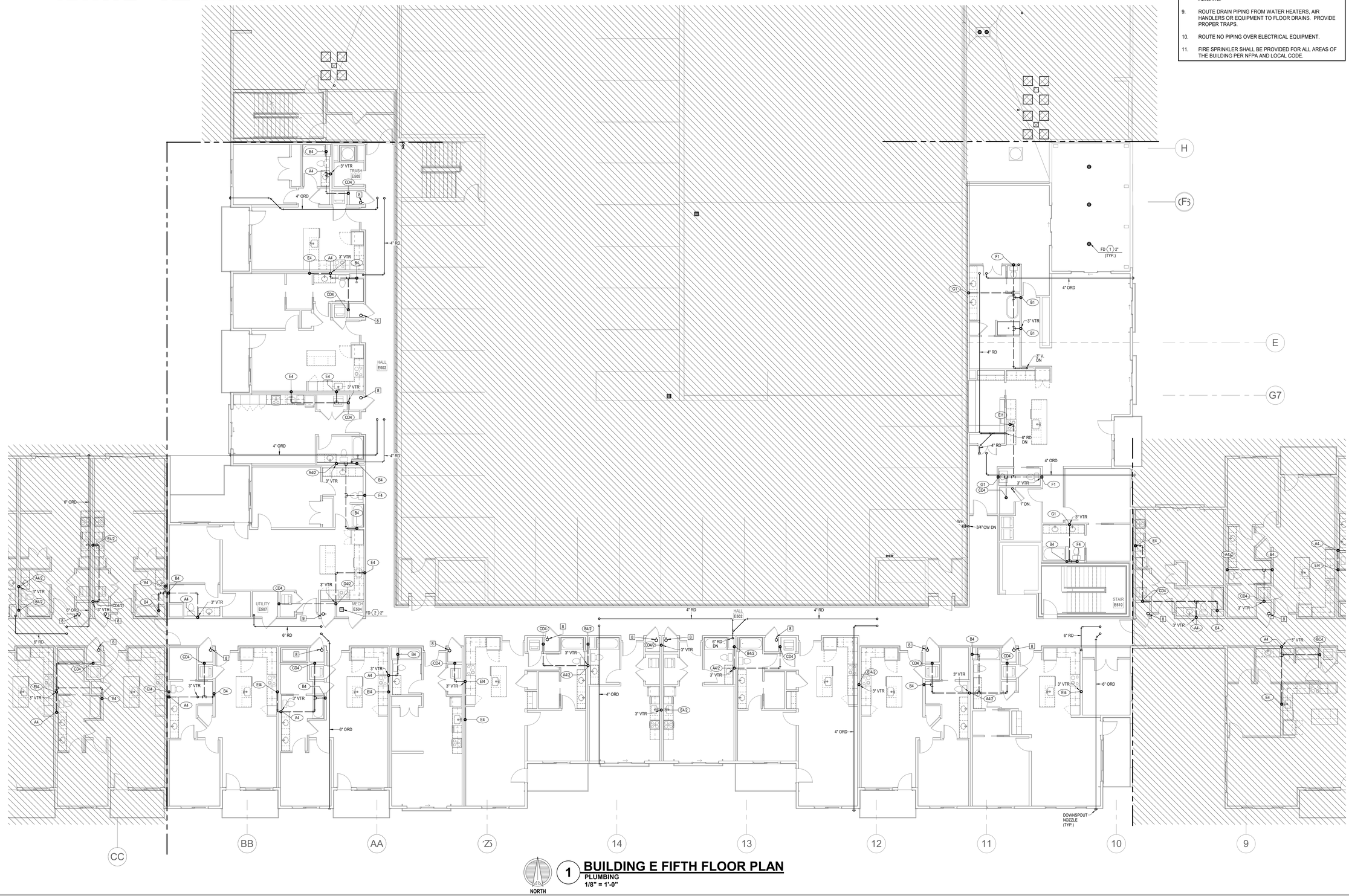

NORTH

1 BUILDING E FIFTH FLOOR PLAN
PLUMBING
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

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2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2007018
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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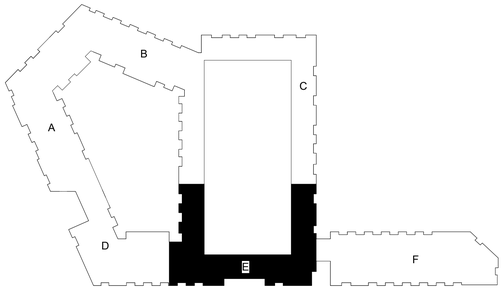
Telephone: (785) 233-3232
Email: lsaps@lsaps.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING E FIFTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.55E



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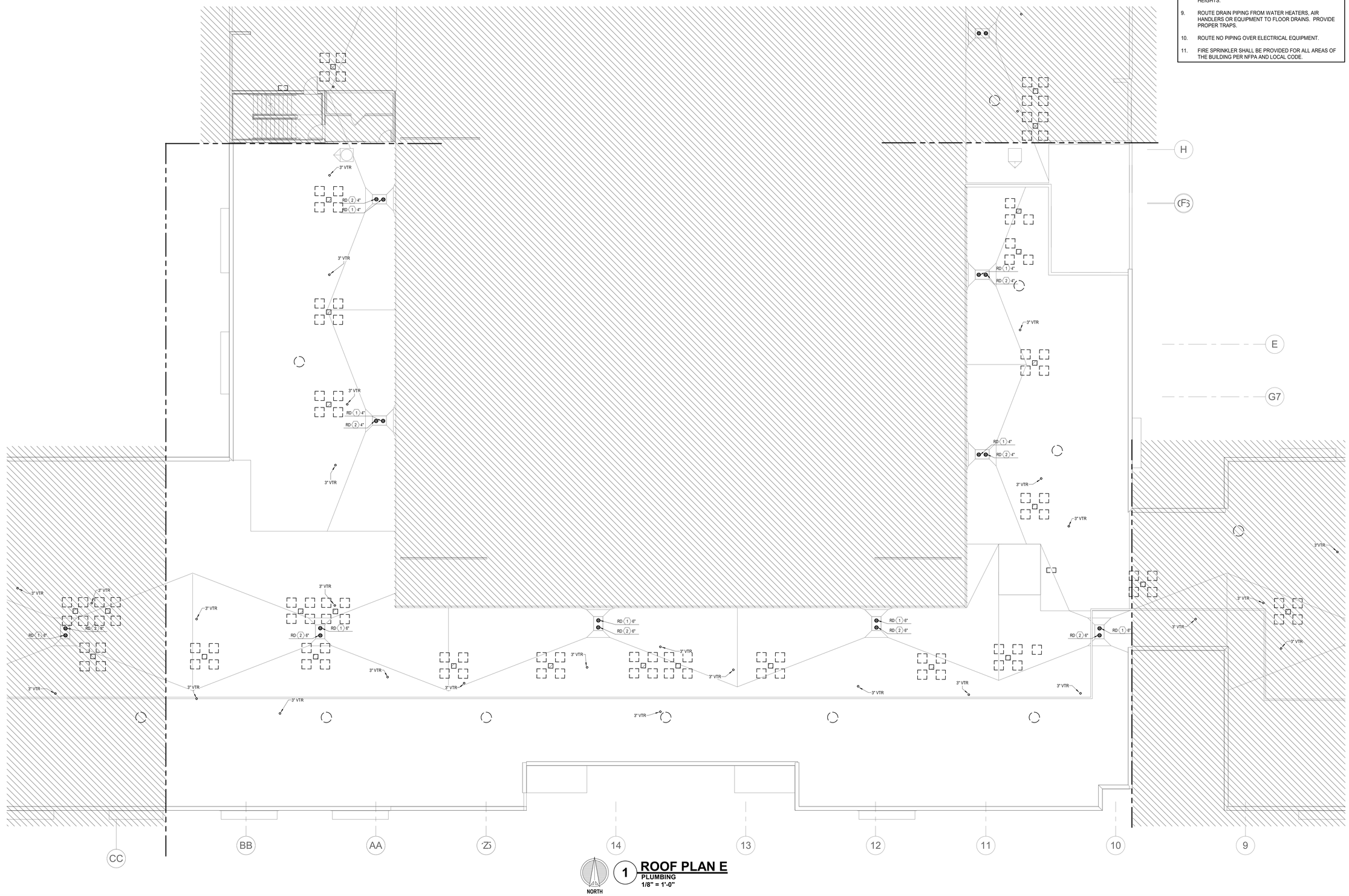
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
10. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.



NORTH

1 ROOF PLAN E

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER 2010021751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

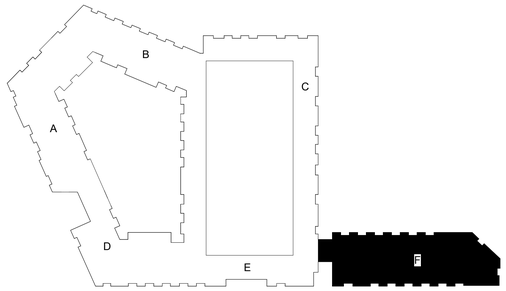
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3222
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN E - PLUMBING

SHEET NUMBER

P1.56E



NOTES:

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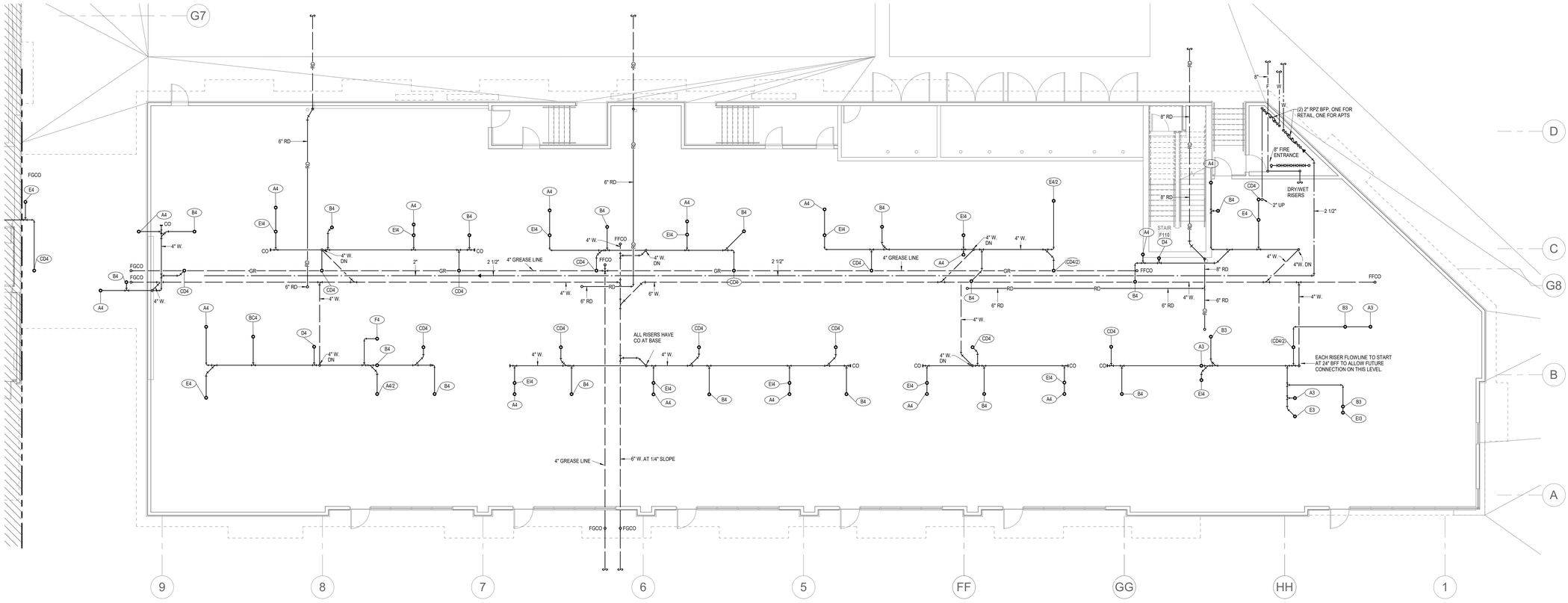

NORTH

1 BUILDING F FIRST FLOOR PLAN

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2012021751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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6625 College Boulevard, Suite 102
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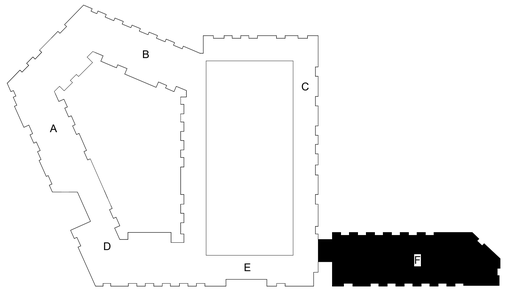
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FIRST FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.61F



NOTES:

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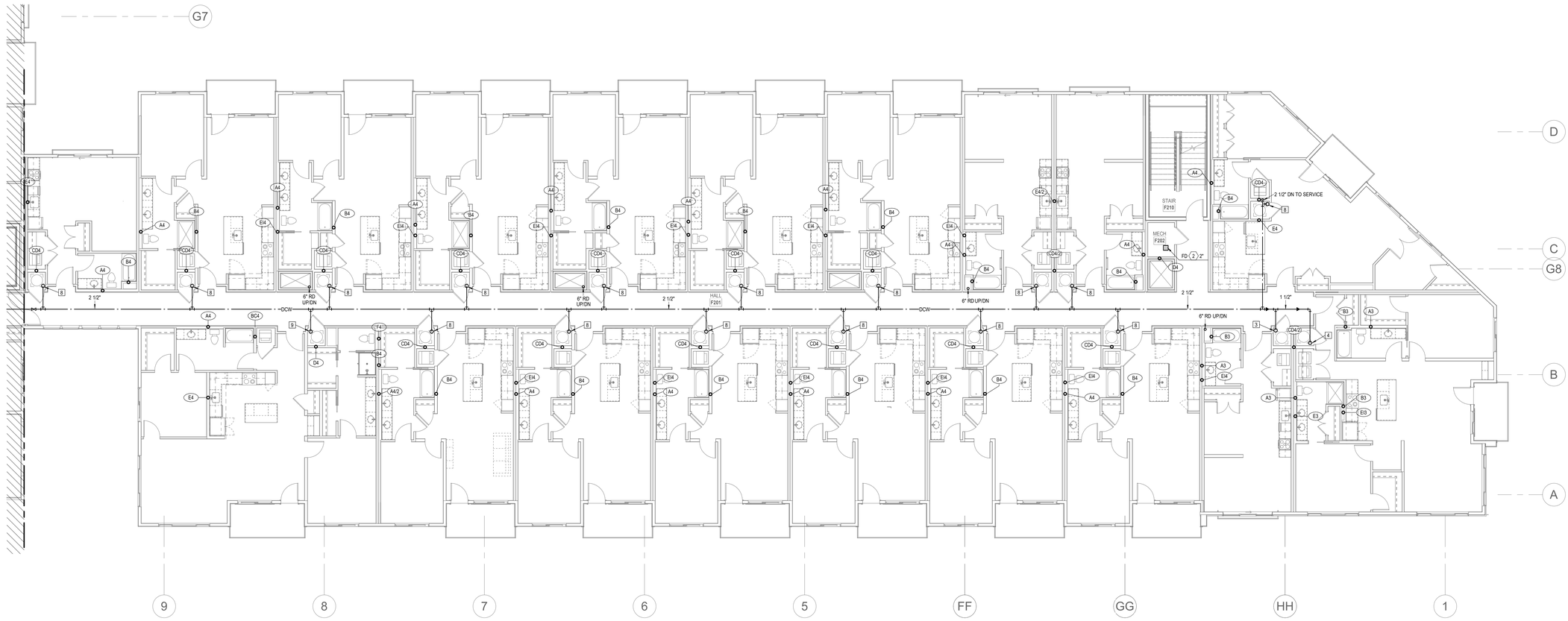

NORTH

1 BUILDING F SECOND FLOOR PLAN

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2006018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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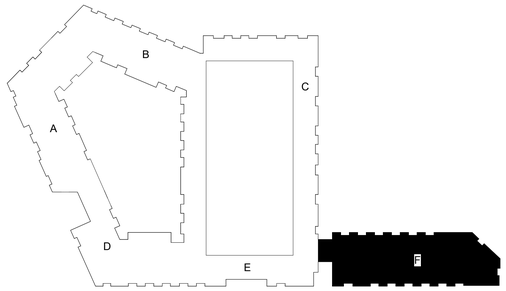
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F SECOND FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.62F



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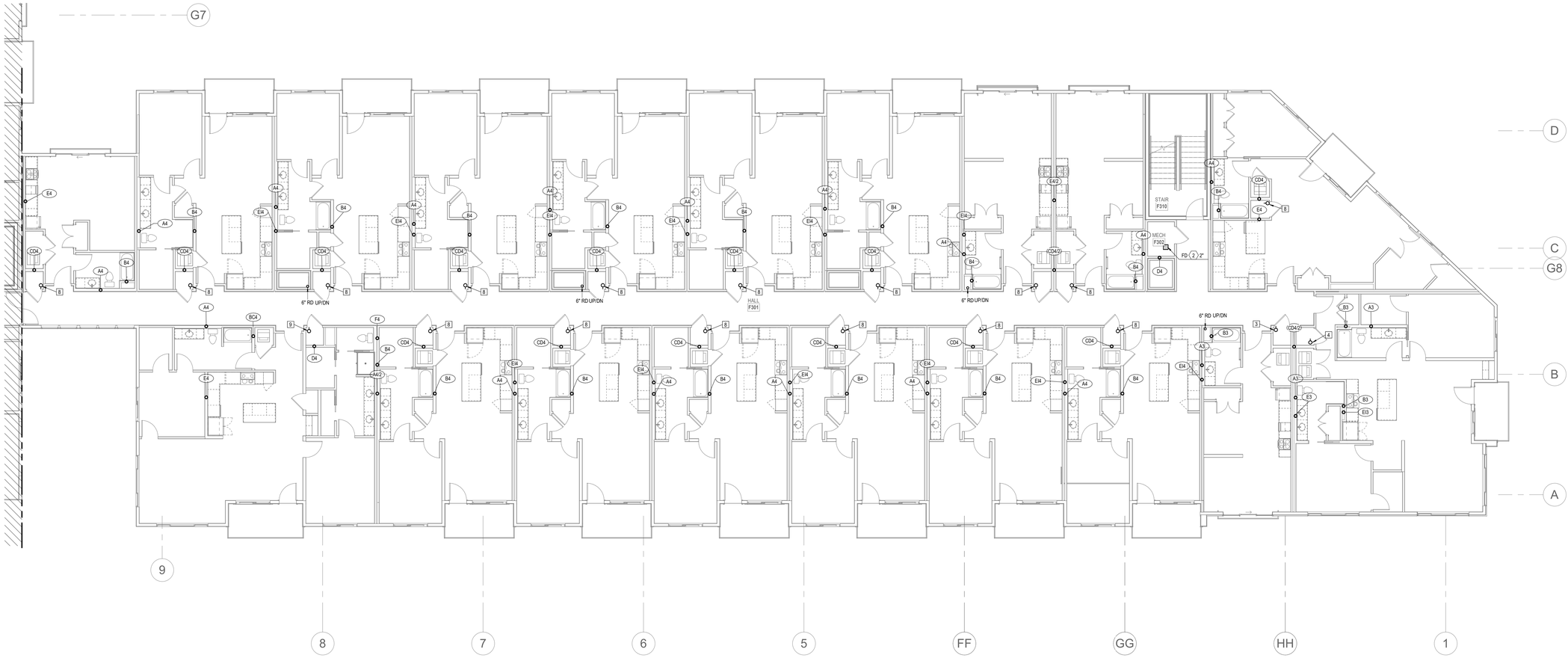

NORTH

1 BUILDING F THIRD FLOOR PLAN

PLUMBING
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAMONTE
NUMBER A-2003018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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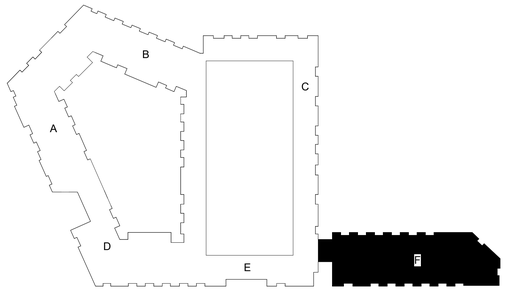
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F THIRD FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.63F



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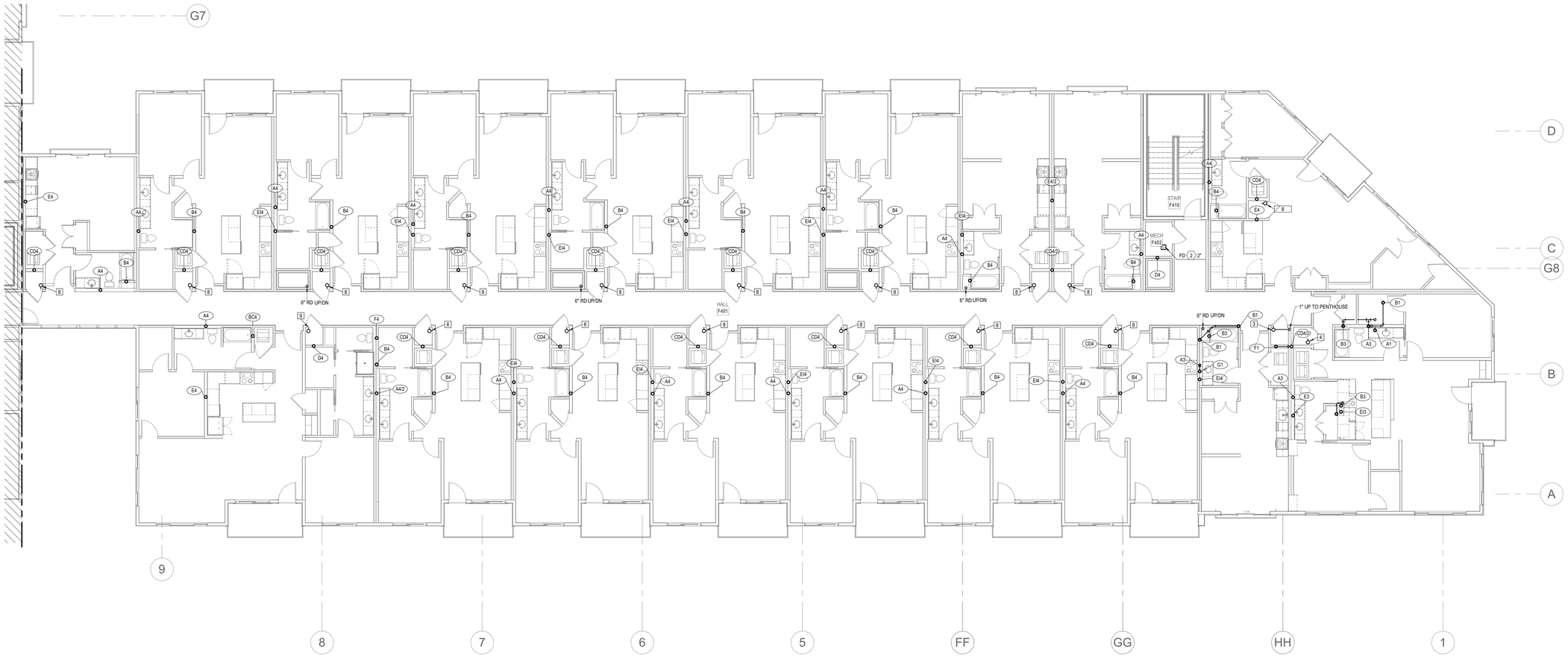

1 BUILDING F FOURTH FLOOR PLAN

PLUMBING
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2003018078
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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3639 SW Summerfield Drive, Suite A
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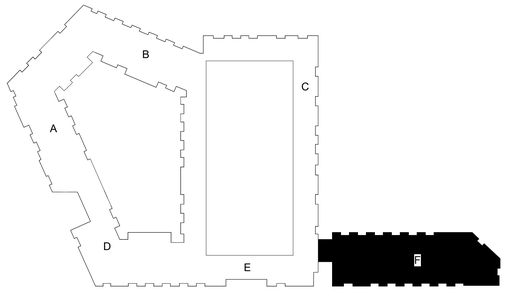
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FOURTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.64F



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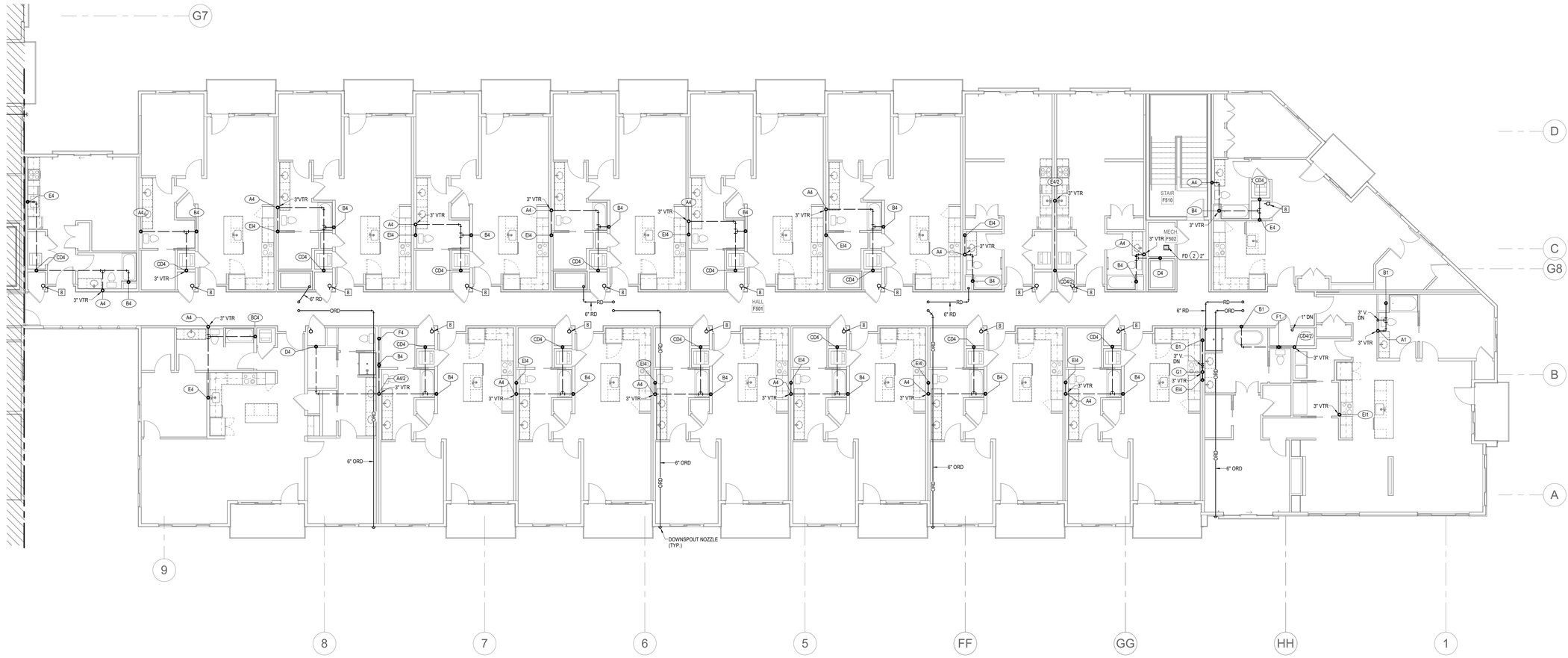

1 BUILDING F FIFTH FLOOR PLAN

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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CONSULTING ENGINEERS
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Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
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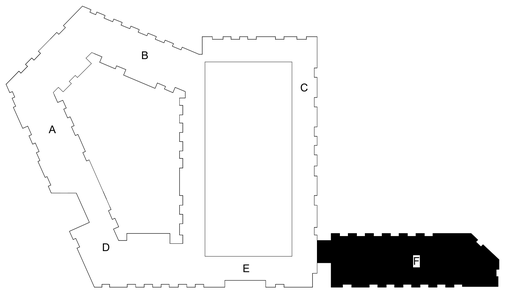
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FIFTH FLOOR PLAN - PLUMBING

SHEET NUMBER

P1.65F



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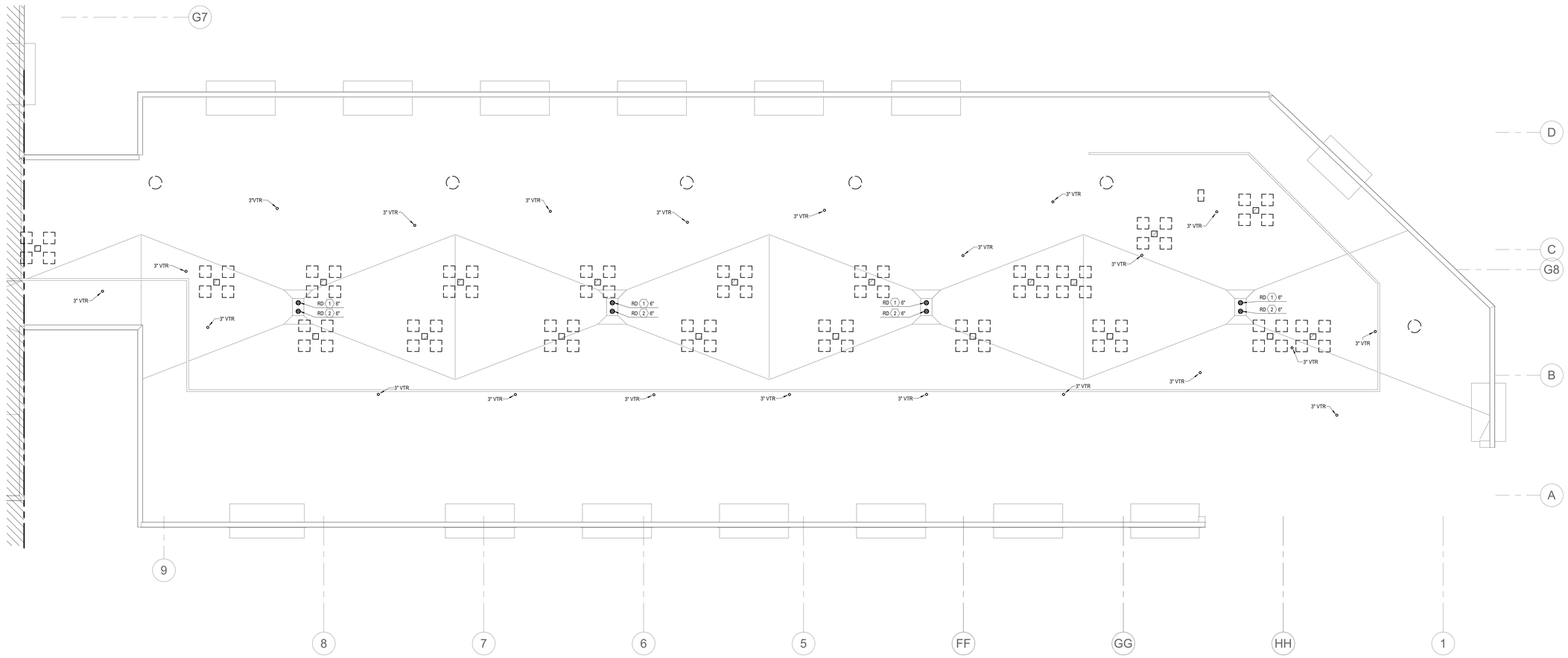

NORTH

1 ROOF PLAN F

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN F - PLUMBING

SHEET NUMBER

P1.66F

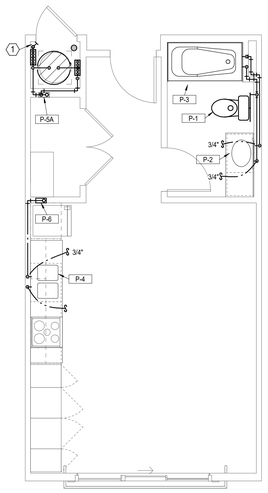
NOTES:

1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2. PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4. PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6. P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

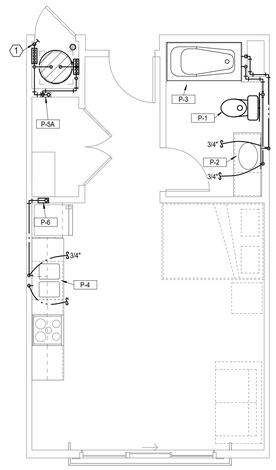
LEGEND:

(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.

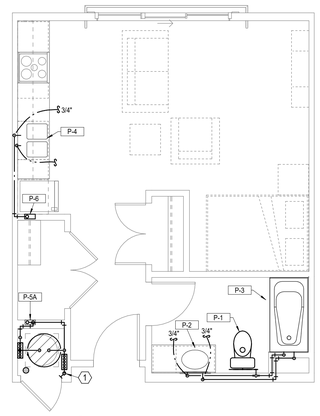
(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.



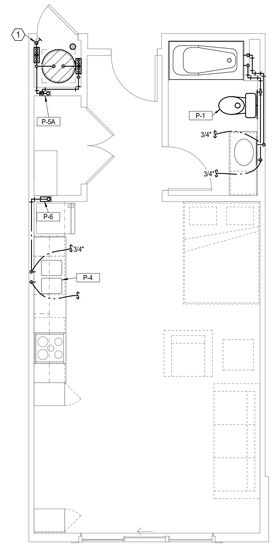
1 **TYPICAL UNIT A-1**
PLUMBING
1/4" = 1'-0"



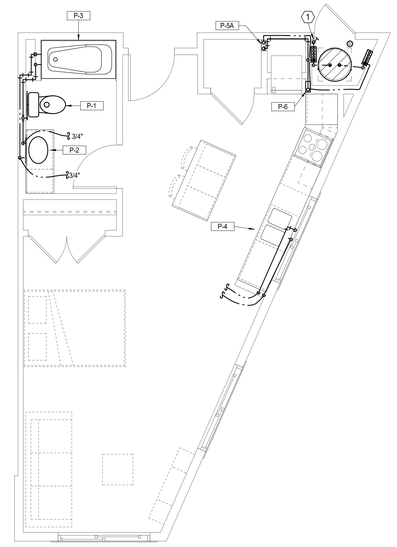
2 **TYPICAL UNIT A-2**
PLUMBING
1/4" = 1'-0"



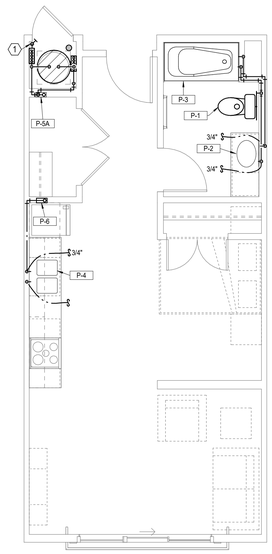
3 **TYPICAL UNIT A-3**
PLUMBING
1/4" = 1'-0"



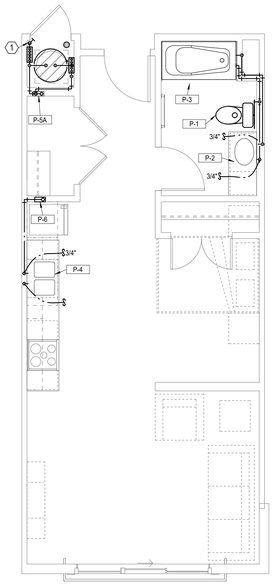
4 **TYPICAL UNIT A-4**
PLUMBING
1/4" = 1'-0"



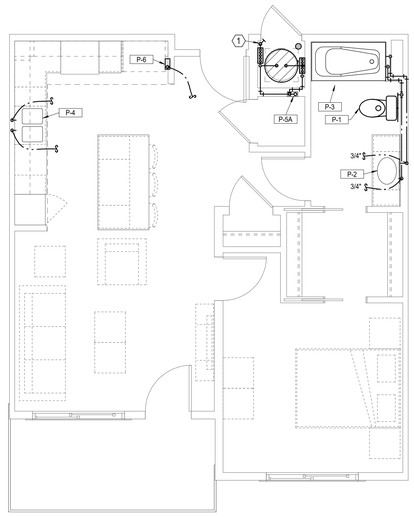
5 **TYPICAL UNIT A-5**
PLUMBING
1/4" = 1'-0"



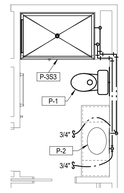
6 **TYPICAL UNIT B-1**
PLUMBING
1/4" = 1'-0"



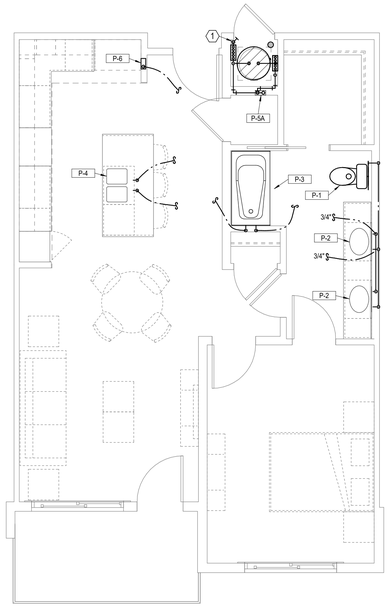
7 **TYPICAL UNIT B-2**
PLUMBING
1/4" = 1'-0"



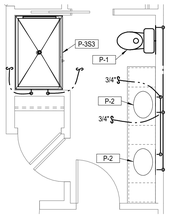
8 **TYPICAL UNIT C-1**
PLUMBING
1/4" = 1'-0"



9 **TYPICAL UNIT C-1 S**
PLUMBING
1/4" = 1'-0"



10 **TYPICAL UNIT C-2**
PLUMBING
1/4" = 1'-0"



11 **TYPICAL UNIT C-2 S**
PLUMBING
1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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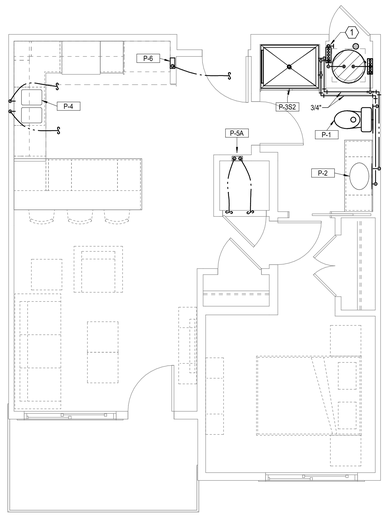
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

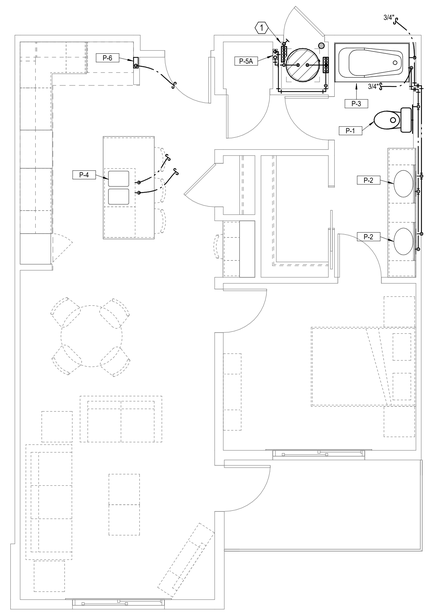
TYPICAL UNIT PLANS - PLUMBING

SHEET NUMBER

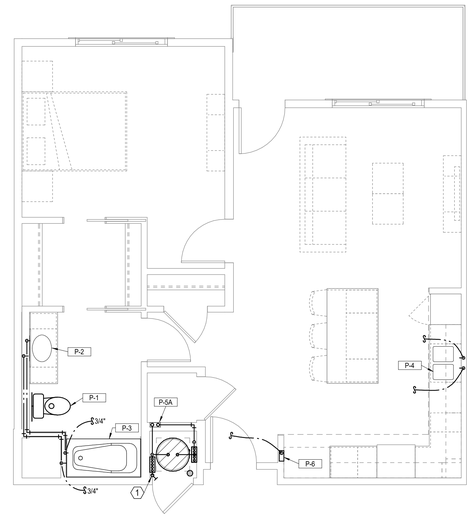
P2.01



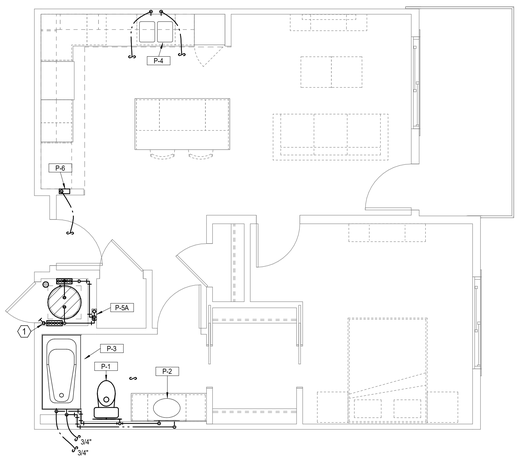
1 TYPICAL UNIT C-3
PLUMBING
1/4" = 1'-0"



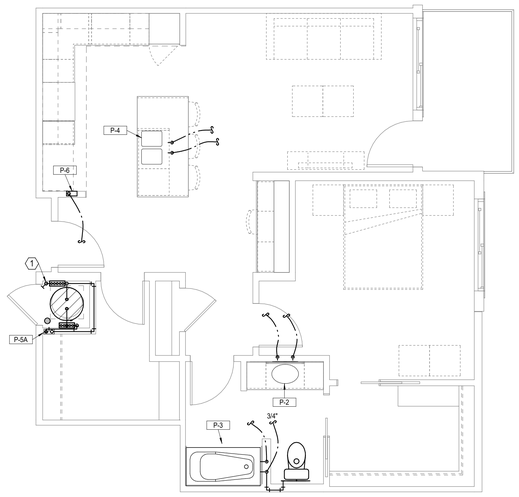
2 TYPICAL UNIT C-4
PLUMBING
1/4" = 1'-0"



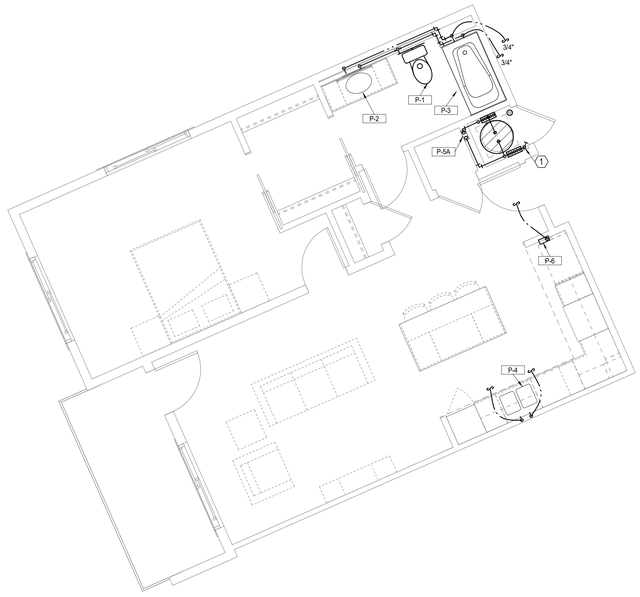
3 TYPICAL UNIT C-5
PLUMBING
1/4" = 1'-0"



4 TYPICAL UNIT C-6
PLUMBING
1/4" = 1'-0"



5 TYPICAL UNIT C-7
PLUMBING
1/4" = 1'-0"



6 TYPICAL UNIT C-8
PLUMBING
1/4" = 1'-0"

NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2.	PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4.	PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6.	P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:	
1	3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.
2	1" SERVICE AND SHUT-OFF WITH MANIFOLDS.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010043
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

TYPICAL UNIT PLANS - PLUMBING

SHEET NUMBER

P2.02

NOTES:

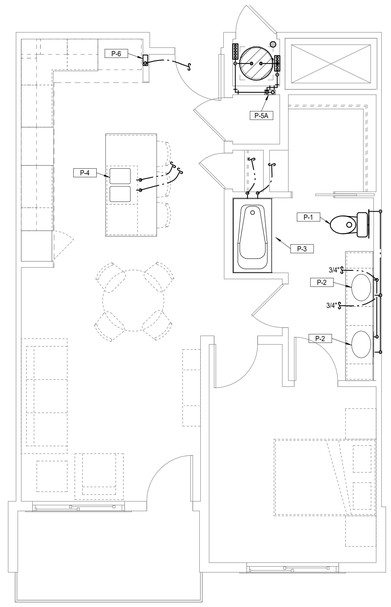
1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2. PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4. PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6. P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:

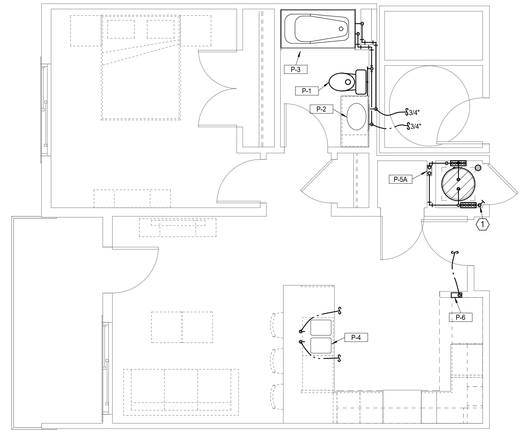
(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.

(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.

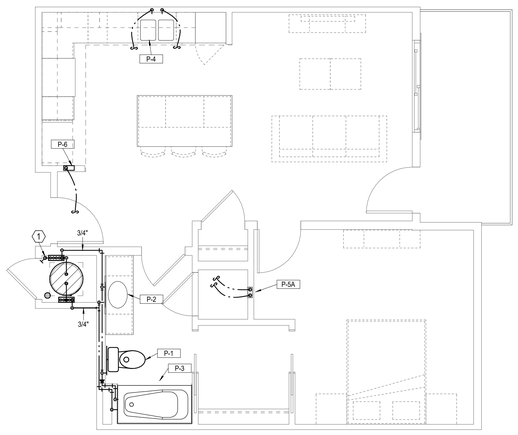
1 TYPICAL UNIT C-9
PLUMBING
1/4" = 1'-0"



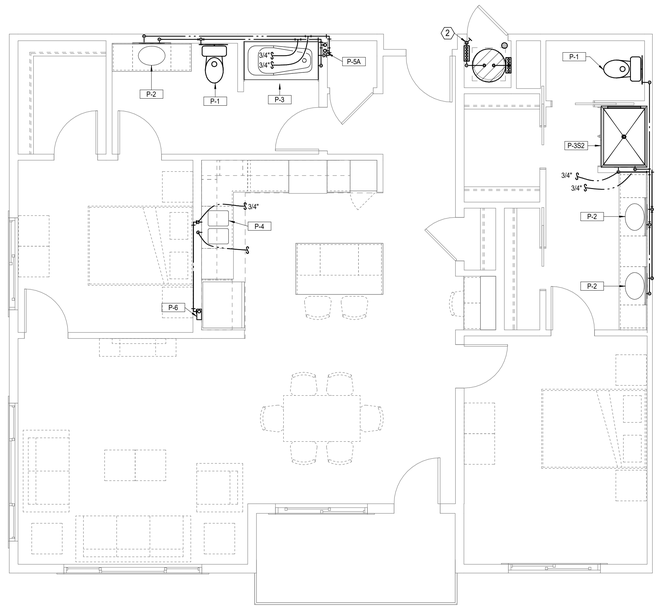
2 TYPICAL UNIT C-10
PLUMBING
1/4" = 1'-0"



3 TYPICAL UNIT C-11
PLUMBING
1/4" = 1'-0"



5 TYPICAL UNIT C-12
PLUMBING
1/4" = 1'-0"



6 TYPICAL UNIT D-1
PLUMBING
1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010020778
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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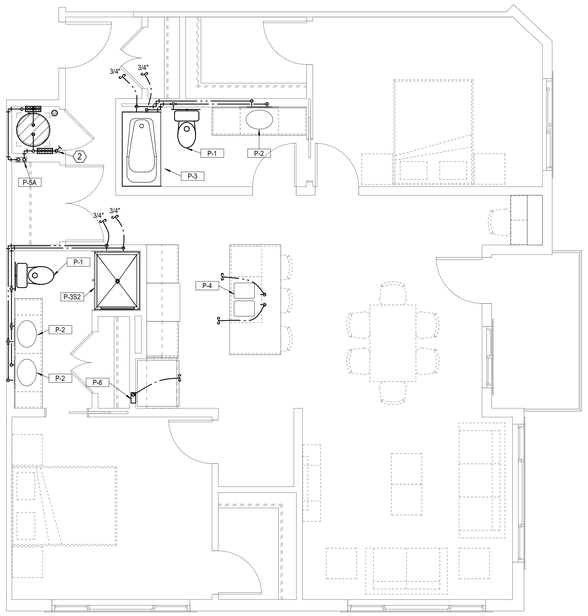
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

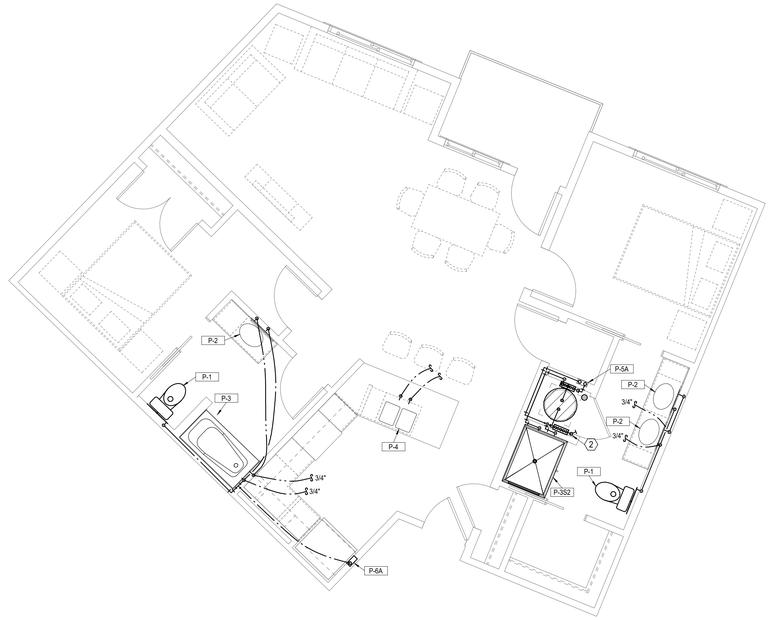
TYPICAL UNIT PLANS - PLUMBING

SHEET NUMBER

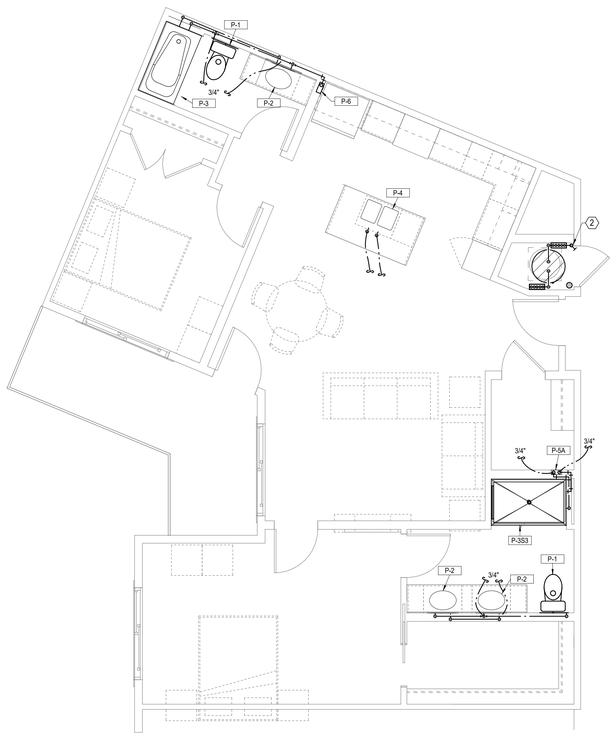
P2.03



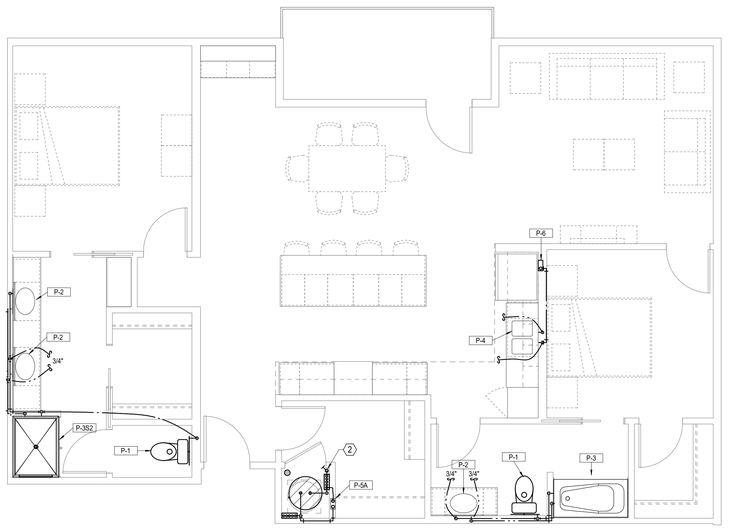
1 TYPICAL UNIT D-2
PLUMBING
1/4" = 1'-0"



2 TYPICAL UNIT D-3
PLUMBING
1/4" = 1'-0"



3 TYPICAL UNIT D-4
PLUMBING
1/4" = 1'-0"



4 TYPICAL UNIT D-5
PLUMBING
1/4" = 1'-0"

NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2.	PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4.	PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6.	P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:
(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.
(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
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REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2007018611
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNIT PLANS - PLUMBING

SHEET NUMBER

P2.04

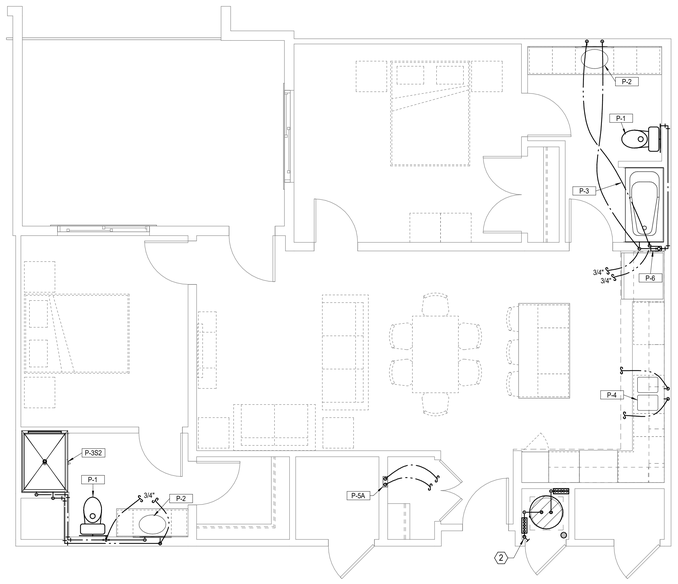
NOTES:

1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2. PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4. PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6. P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

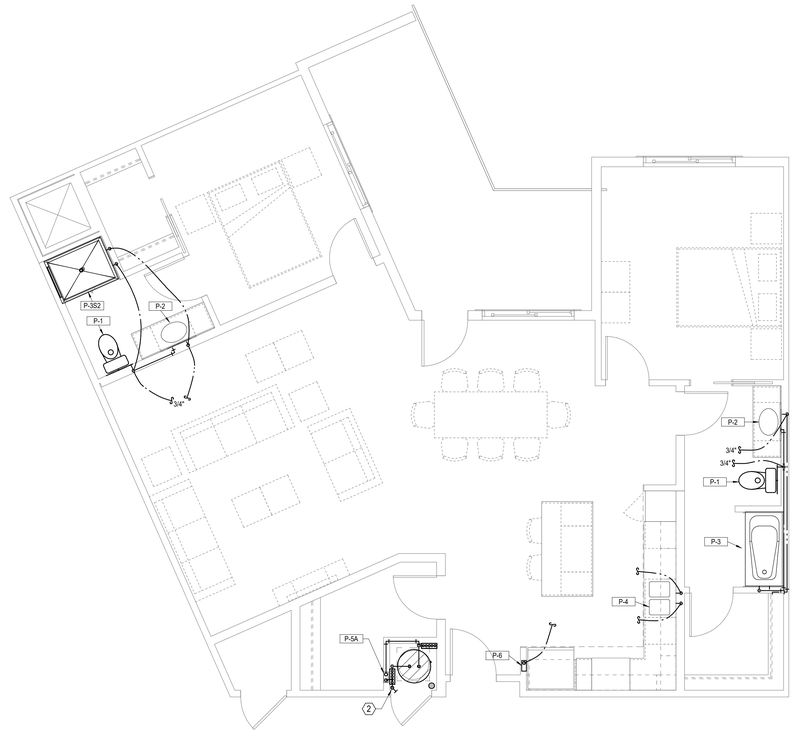
LEGEND:

(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.

(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.



1 TYPICAL UNIT D-6
PLUMBING
1/4" = 1'-0"



2 TYPICAL UNIT D-7
PLUMBING
1/4" = 1'-0"

3 TYPICAL UNIT D-8
PLUMBING
1/4" = 1'-0"

4 TYPICAL UNIT D-9
PLUMBING
1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2007018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.. 2104043

SHEET TITLE

TYPICAL UNIT PLANS - PLUMBING

SHEET NUMBER

P2.05

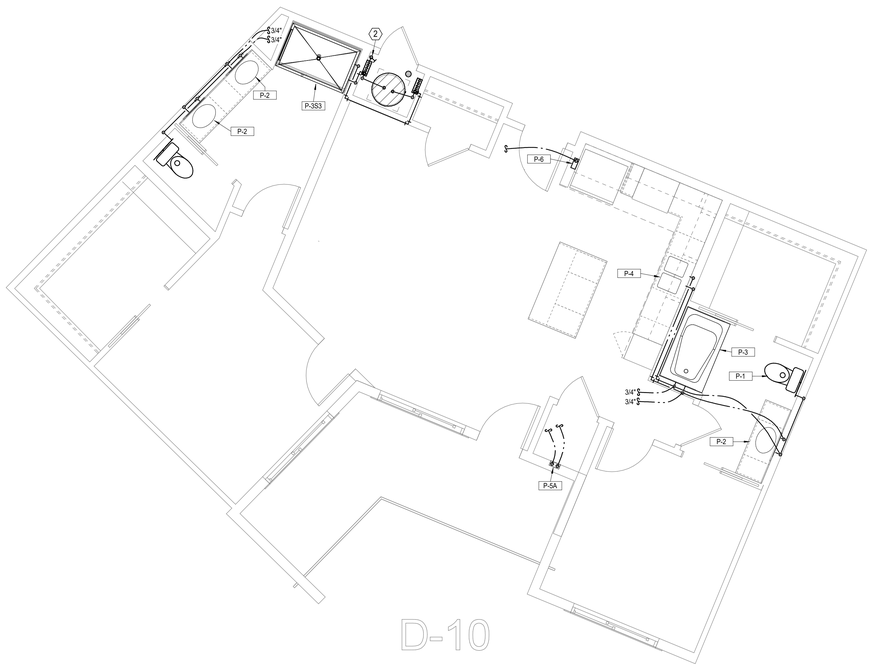
NOTES:

1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2. PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4. PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6. P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

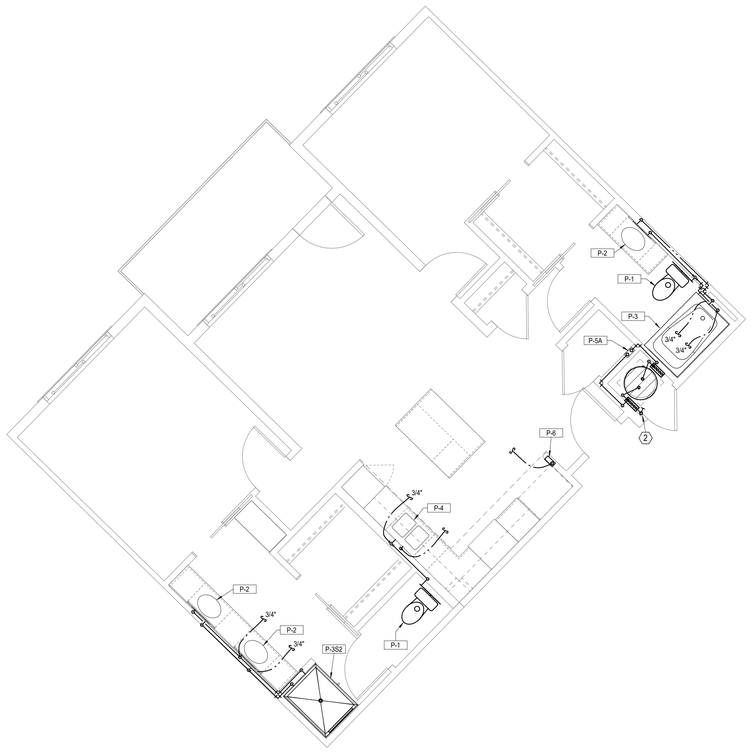
LEGEND:

(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.

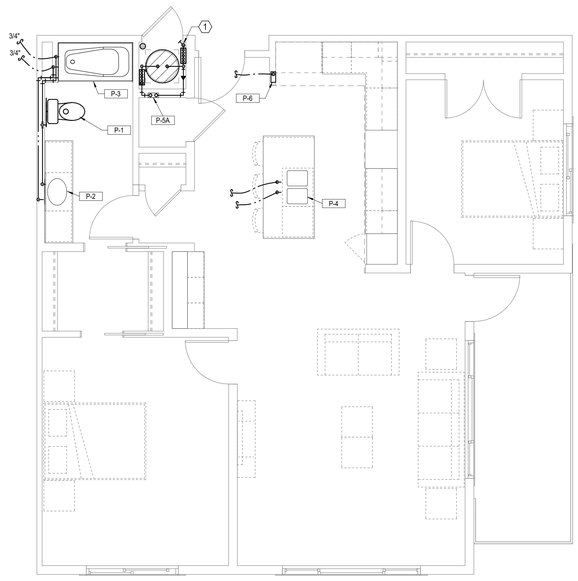
(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.



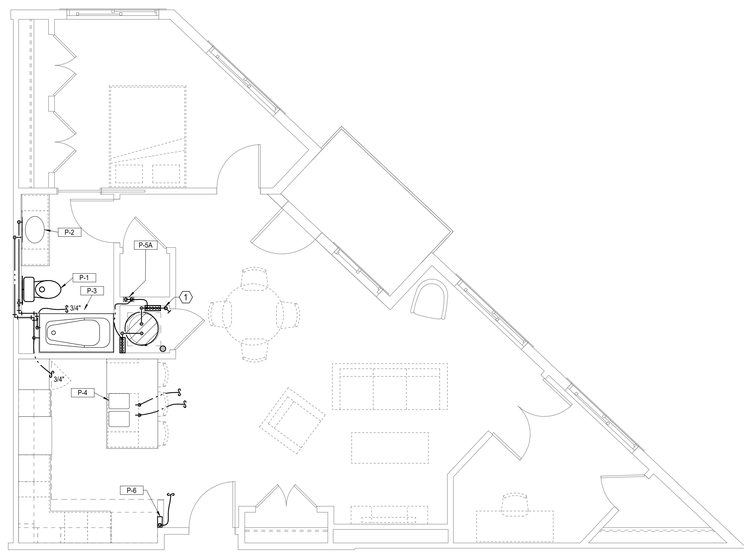
1 TYPICAL UNIT D-10
PLUMBING
1/4" = 1'-0"



2 TYPICAL UNIT D-11
PLUMBING
1/4" = 1'-0"



3 TYPICAL UNIT E-1
PLUMBING
1/4" = 1'-0"



4 TYPICAL UNIT F-1
PLUMBING
1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REVISIONS

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3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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3639 SW Summerfield Drive, Suite A
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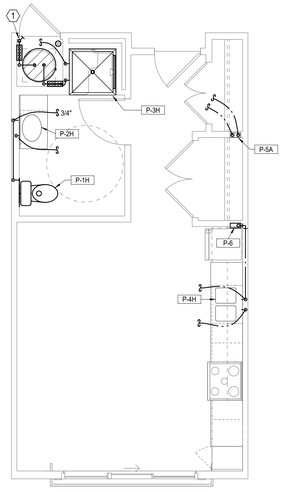
Overland Park, Kansas 66210
Telephone: (785) 233-3222
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

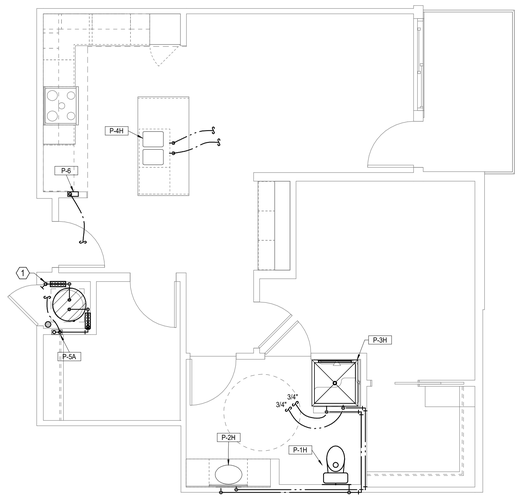
TYPICAL UNIT PLANS - PLUMBING

SHEET NUMBER

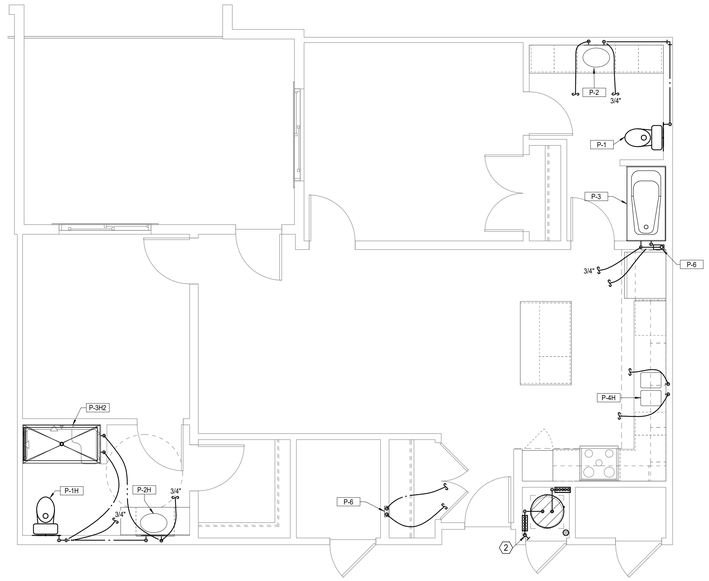
P2.06



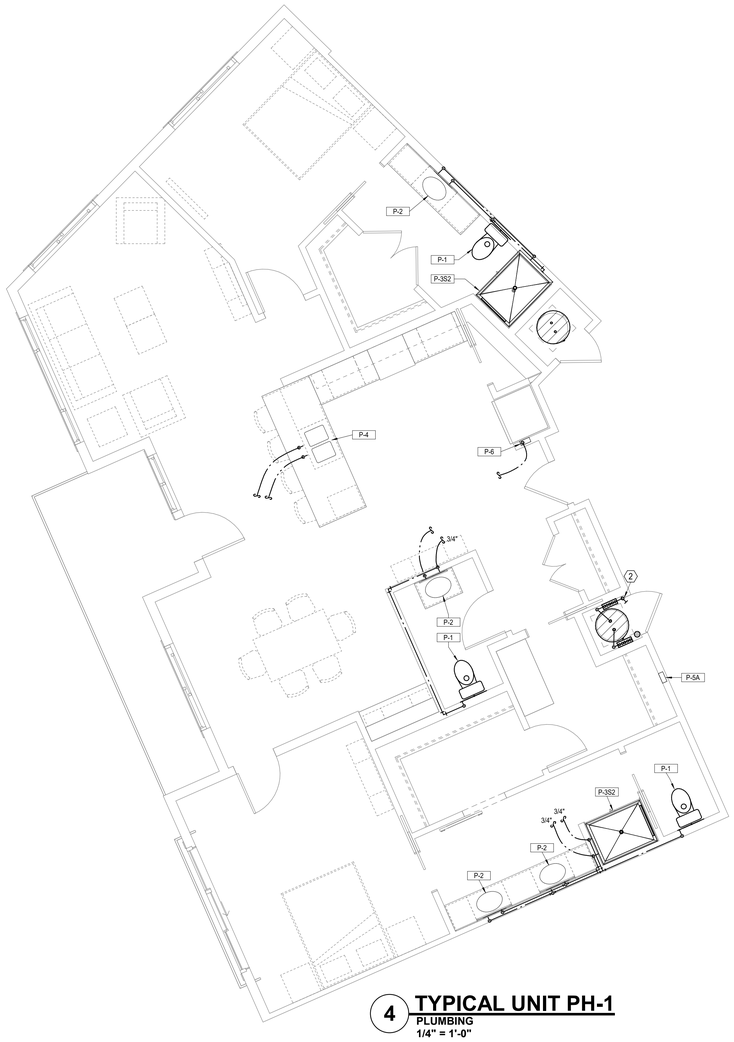
1 TYPICAL UNIT A-1 TYPE A
PLUMBING
1/4" = 1'-0"



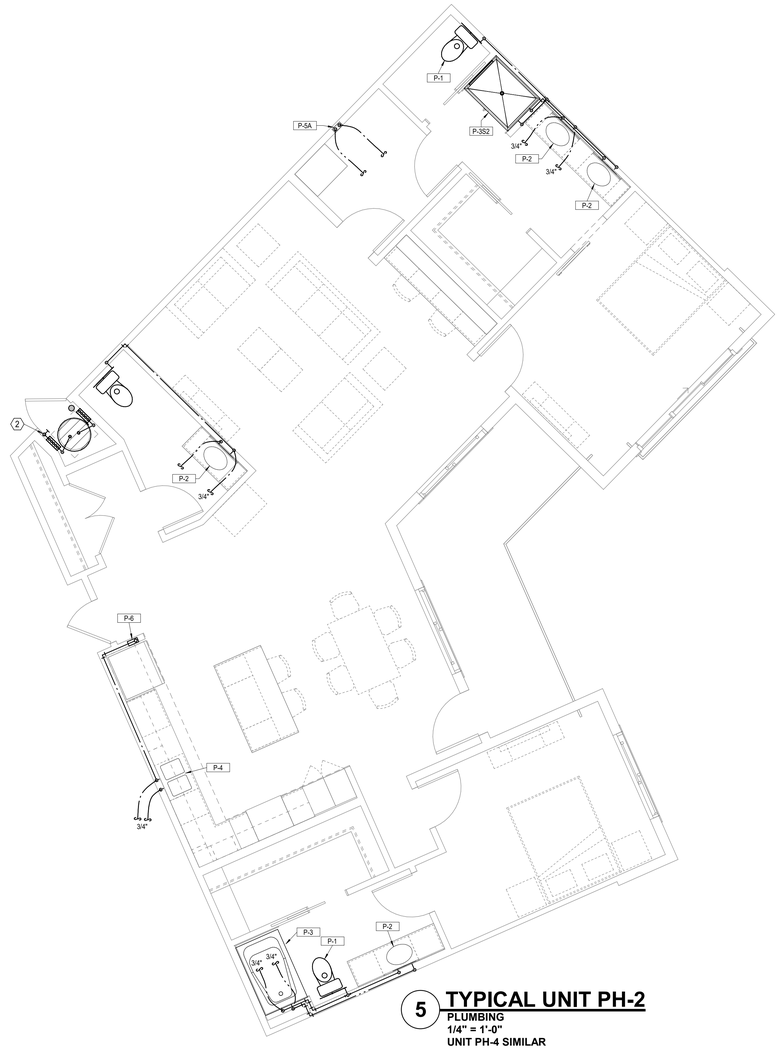
2 TYPICAL UNIT C-7 TYPE A
PLUMBING
1/4" = 1'-0"



3 TYPICAL UNIT D-6 TYPE A
PLUMBING
1/4" = 1'-0"



4 TYPICAL UNIT PH-1
PLUMBING
1/4" = 1'-0"



5 TYPICAL UNIT PH-2
PLUMBING
1/4" = 1'-0"
UNIT PH-4 SIMILAR

NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2.	PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4.	PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6.	P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:	
1	3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.
2	1" SERVICE AND SHUT-OFF WITH MANIFOLDS.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2009018844
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNIT PLANS - PLUMBING

SHEET NUMBER

P2.07

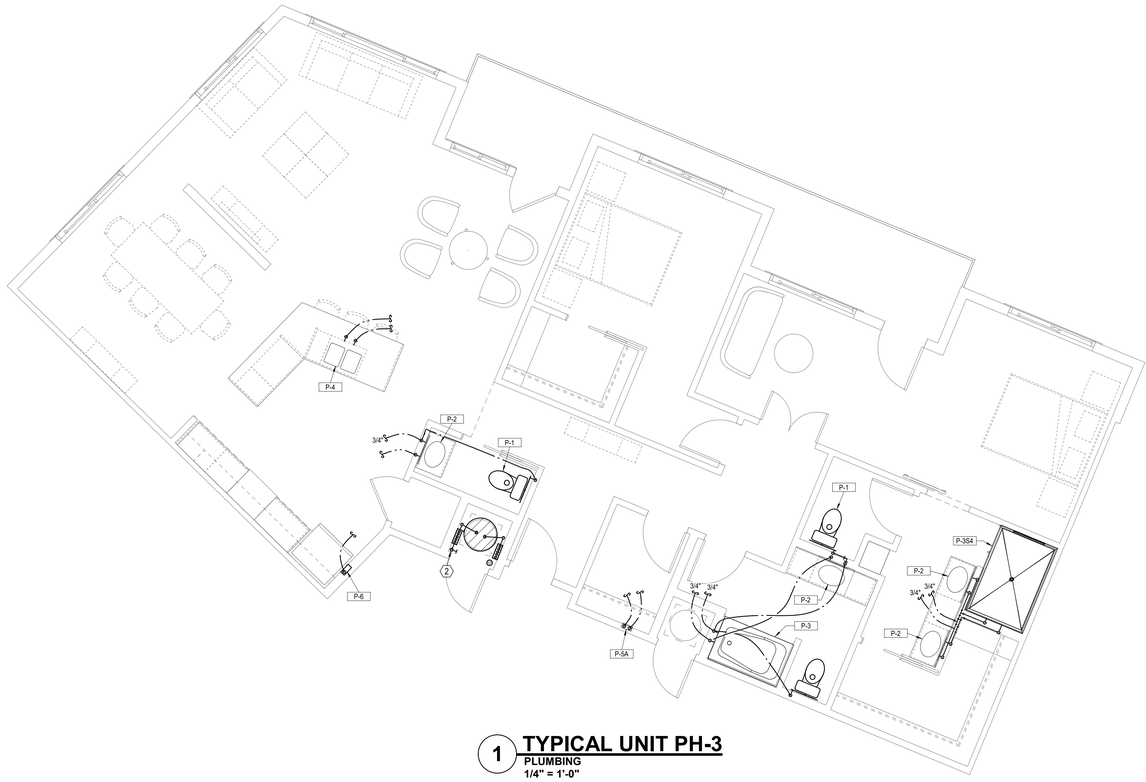
NOTES:

1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2. PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4. PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6. P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:

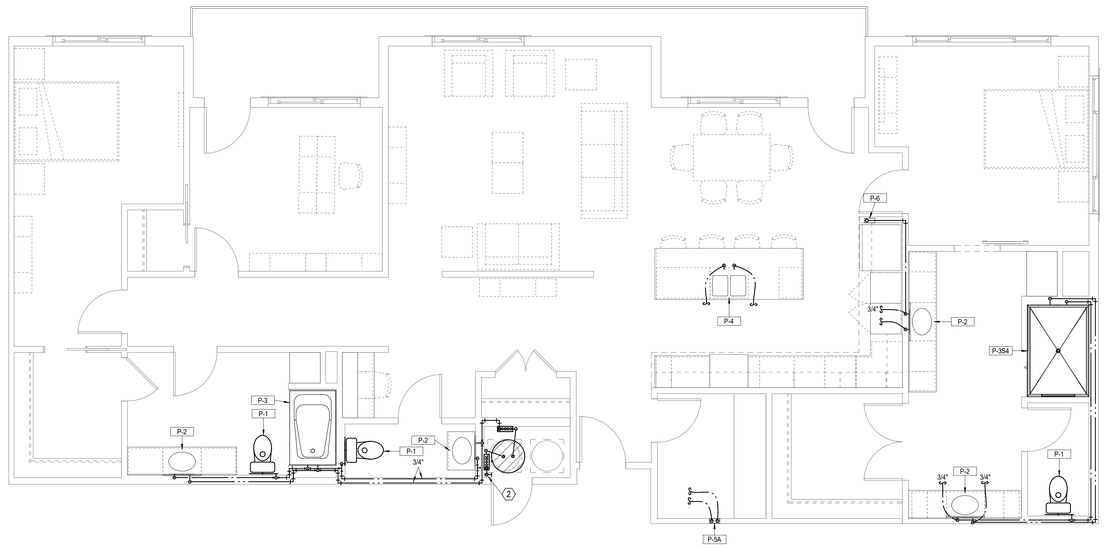
(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.

(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.



1 TYPICAL UNIT PH-3

PLUMBING
1/4" = 1'-0"



2 TYPICAL UNIT PH-5

PLUMBING
1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

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REVISIONS

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3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018754
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNITS PLANS - PLUMBING

SHEET NUMBER

P2.08

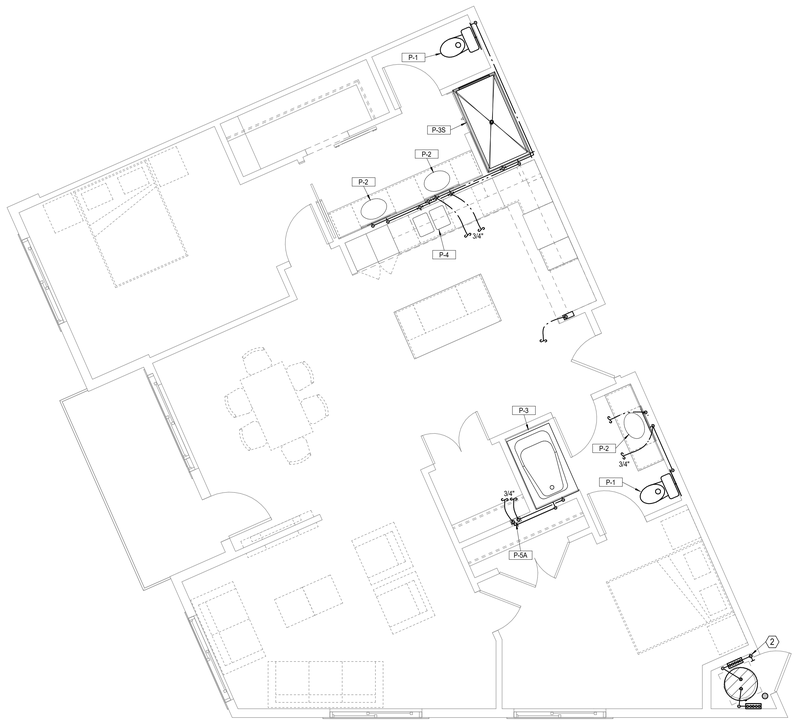
NOTES:

1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2. PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4. PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6. P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:

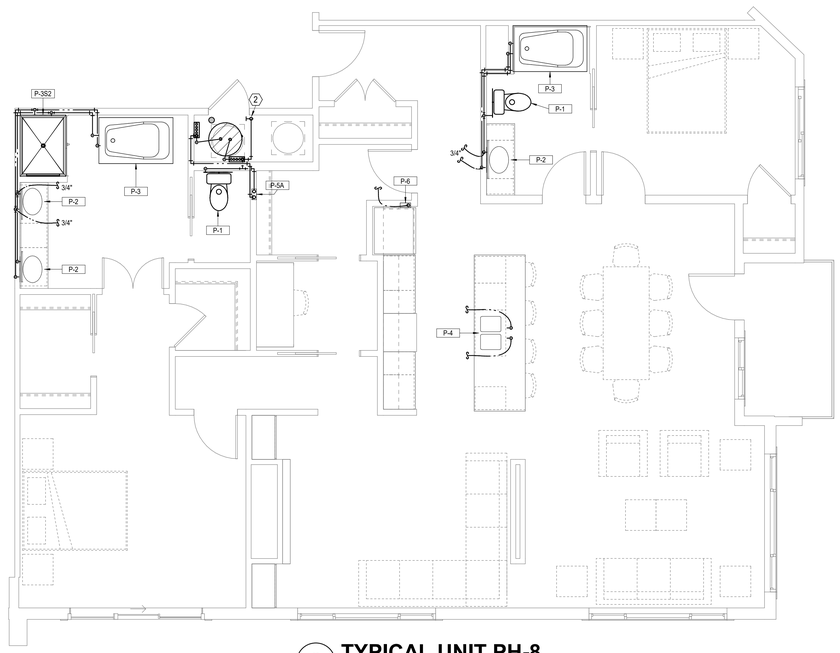
(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.

(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.



1 TYPICAL UNIT PH-6
PLUMBING
1/4" = 1'-0"

2 TYPICAL UNIT PH-7
PLUMBING
1/4" = 1'-0"



3 TYPICAL UNIT PH-8
PLUMBING
1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

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REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2004018
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

TYPICAL UNITS PLANS - PLUMBING

SHEET NUMBER

P2.09

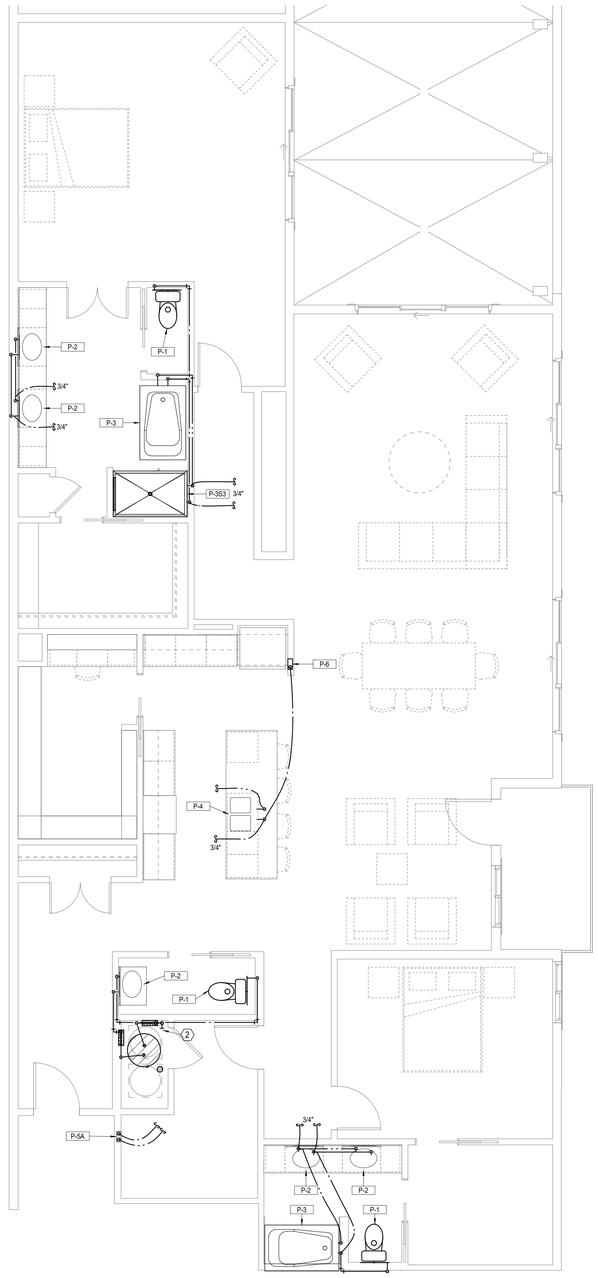
NOTES:

1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2. PROVIDE shock absorbers ON P—4, P—5. AND P—6.
3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4. PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION.
5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6. P—5, P—6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:

(1) 3/4" SERVICE AND SHUT-OFF WITH MANIFOLDS.

(2) 1" SERVICE AND SHUT-OFF WITH MANIFOLDS.



1 TYPICAL UNIT PH-9

PLUMBING

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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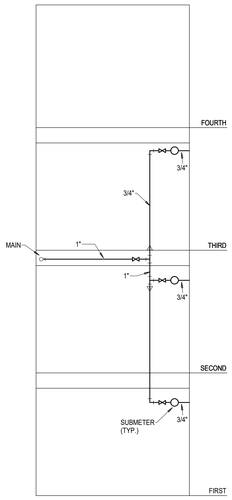
SHEET TITLE

TYPICAL UNITS PLANS - PLUMBING

SHEET NUMBER

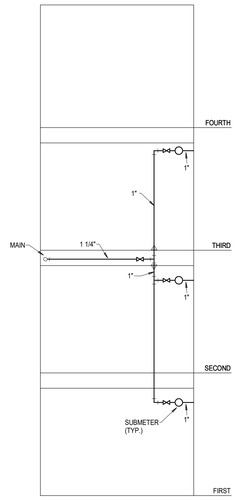
P2.10

NOTE: SOME RISERS START AT 2ND FLOOR CEILING AND EXTEND TO 5TH FLOOR



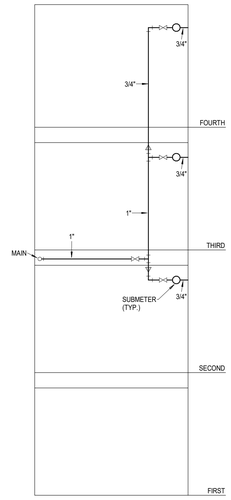
1 1 BR 3 FLOORS
NOT TO SCALE

NOTE: SOME RISERS START AT 2ND FLOOR CEILING AND EXTEND TO 5TH FLOOR



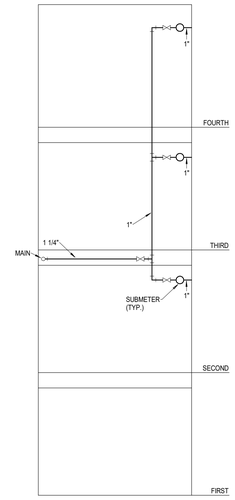
2 2 BR 3 FLOORS
NOT TO SCALE

NOTE: SOME RISERS START AT 2ND FLOOR CEILING AND EXTEND TO 5TH FLOOR

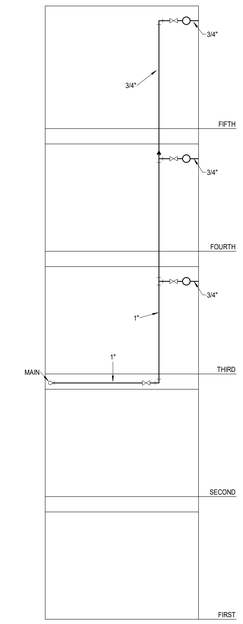


3 1 BR 3 FLOORS
NOT TO SCALE

NOTE: SOME RISERS START AT 2ND FLOOR CEILING AND EXTEND TO 5TH FLOOR

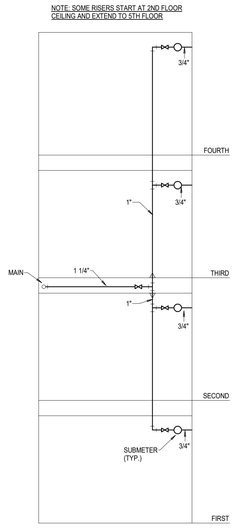


4 2 BR 3 FLOORS
NOT TO SCALE



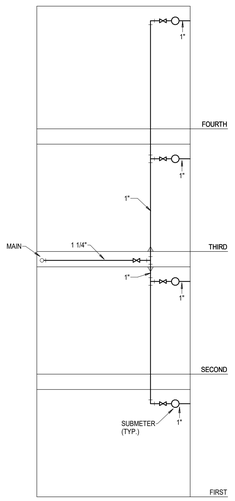
5 1 BR 3 FLOORS
NOT TO SCALE

NOTE: SOME RISERS START AT 2ND FLOOR CEILING AND EXTEND TO 5TH FLOOR

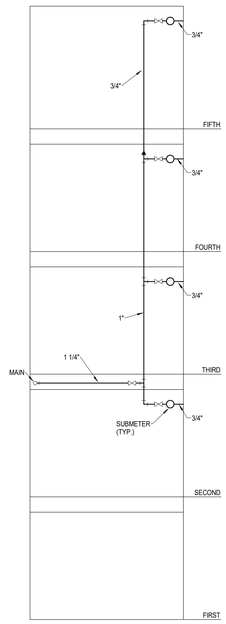


6 1 BR 4 FLOORS
NOT TO SCALE

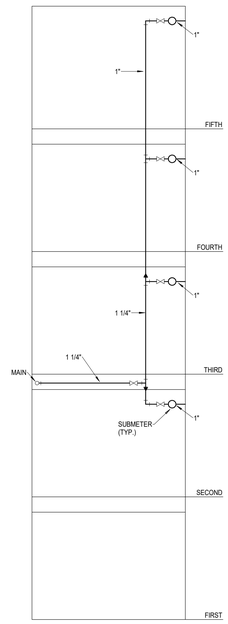
NOTE: SOME RISERS START AT 2ND FLOOR CEILING AND EXTEND TO 5TH FLOOR



7 2 BR 4 FLOORS
NOT TO SCALE



8 1 BR 4 FLOORS
NOT TO SCALE



9 2 BR 4 FLOORS
NOT TO SCALE

PARAGON STAR NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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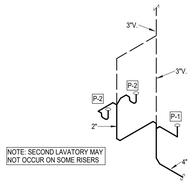
LSA PROJECT NO. 2104043

SHEET TITLE

PLUMBING RISERS

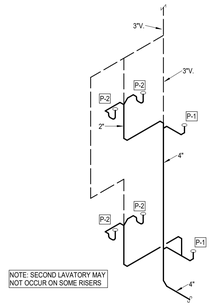
SHEET NUMBER

P3.01



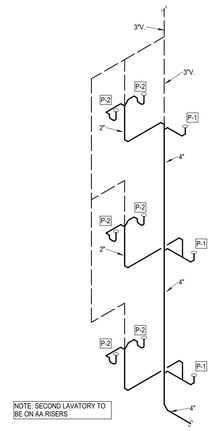
NOTE: SECOND LAVATORY MAY NOT OCCUR ON SOME RISERS

A1 Plumbing Riser
NOT TO SCALE



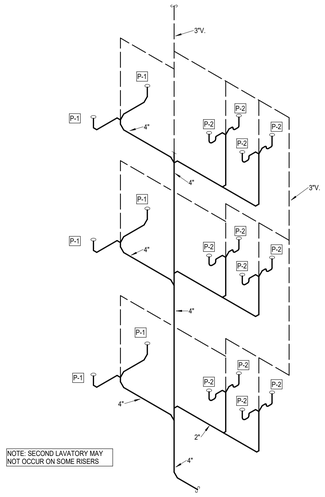
NOTE: SECOND LAVATORY MAY NOT OCCUR ON SOME RISERS

A2 Plumbing Riser
NOT TO SCALE



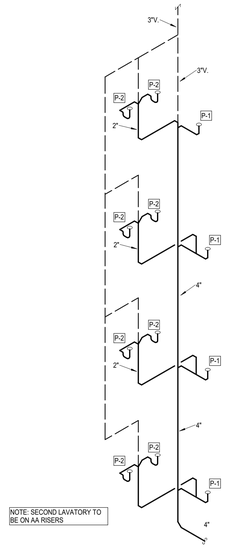
NOTE: SECOND LAVATORY TO BE ON AA RISERS

A3 Plumbing Riser
NOT TO SCALE



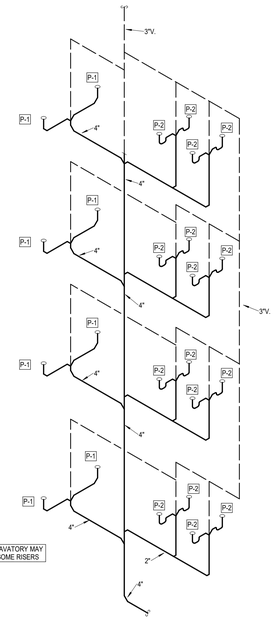
NOTE: SECOND LAVATORY MAY NOT OCCUR ON SOME RISERS

A3/2 Plumbing Riser
NOT TO SCALE



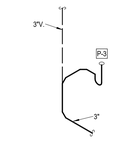
NOTE: SECOND LAVATORY TO BE ON AA RISERS

A4 Plumbing Riser
NOT TO SCALE

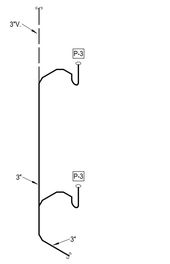


NOTE: SECOND LAVATORY MAY NOT OCCUR ON SOME RISERS

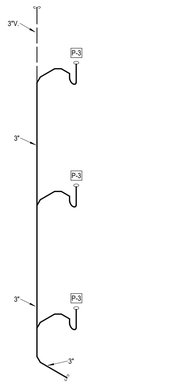
A4/2 Plumbing Riser
NOT TO SCALE



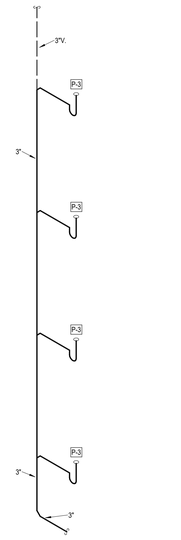
B1 Plumbing Riser
NOT TO SCALE



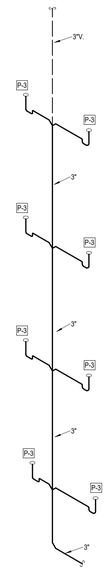
B2 Plumbing Riser
NOT TO SCALE



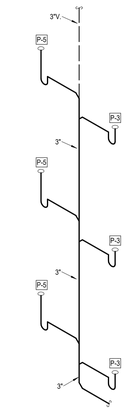
B3 Plumbing Riser
NOT TO SCALE



B4 Plumbing Riser
NOT TO SCALE



B4/2 Plumbing Riser
NOT TO SCALE



BC3 Plumbing Riser
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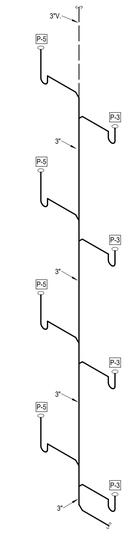

BC4 Plumbing Riser
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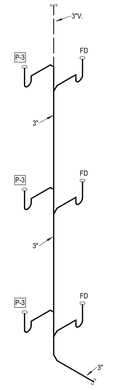

BD3 Plumbing Riser
NOT TO SCALE

7/25/2022 12:18:15 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2014
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
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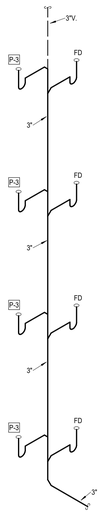
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

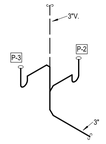
PLUMBING RISERS

SHEET NUMBER

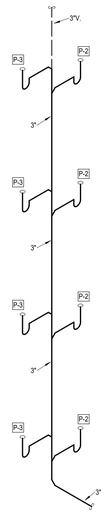
P3.02



BD4 **Plumbing Riser**
NOT TO SCALE



BG1 **Plumbing Riser**
NOT TO SCALE



BG4 **Plumbing Riser**
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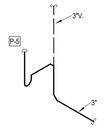
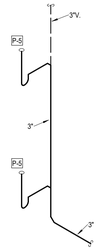
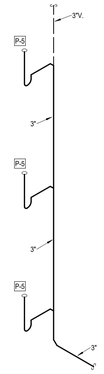


C1 **Plumbing Riser**
NOT TO SCALE



C2 **Plumbing Riser**
NOT TO SCALE



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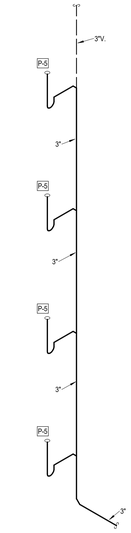

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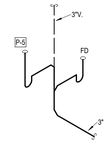

CD1 **Plumbing Riser**
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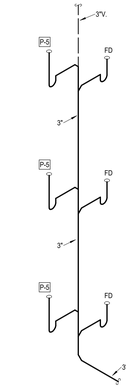

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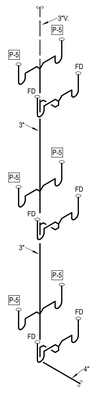

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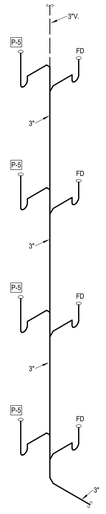

CD4 **Plumbing Riser**
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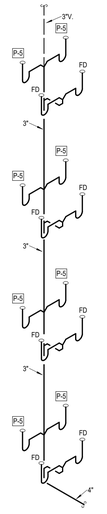

CD4/2 **Plumbing Riser**
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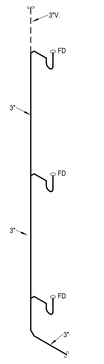
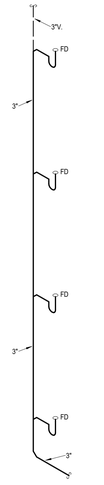


D3 **Plumbing Riser**
NOT TO SCALE



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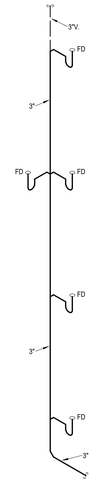

D4/2 **Plumbing Riser**
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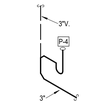
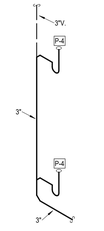


E1 **Plumbing Riser**
NOT TO SCALE



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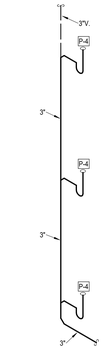
NOT TO SCALE



E3 **Plumbing Riser**
NOT TO SCALE

7/25/2022 12:18:17 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2004018754
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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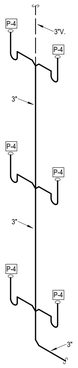
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

PLUMBING RISERS

SHEET NUMBER

P3.03



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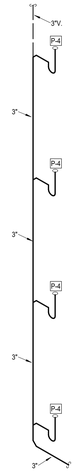

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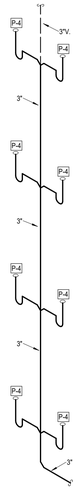

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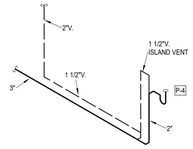
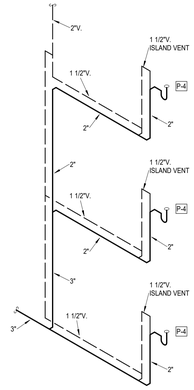


EI1 **Plumbing Riser**
NOT TO SCALE



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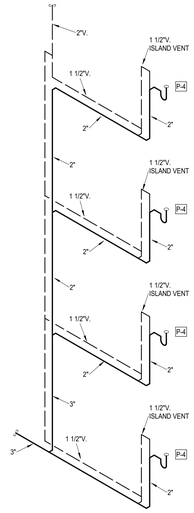

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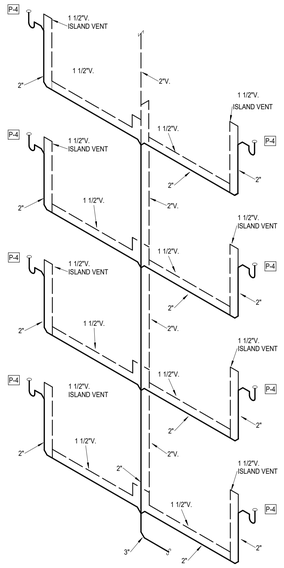

EI4/2 **Plumbing Riser**
NOT TO SCALE

F1 **Plumbing Riser**
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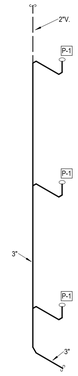
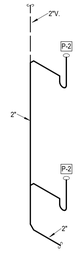


F3 **Plumbing Riser**
NOT TO SCALE

F4 **Plumbing Riser**
NOT TO SCALE

G1 **Plumbing Riser**
NOT TO SCALE



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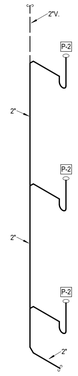

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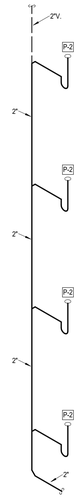

G4 **Plumbing Riser**
NOT TO SCALE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2014
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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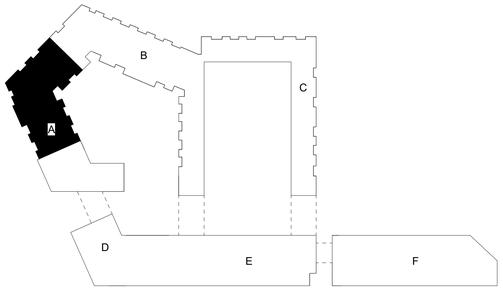
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

PLUMBING RISERS

SHEET NUMBER

P3.04



1 BUILDING A FIRST FLOOR PLAN
HVAC
1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.

PARAGON STAR NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

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RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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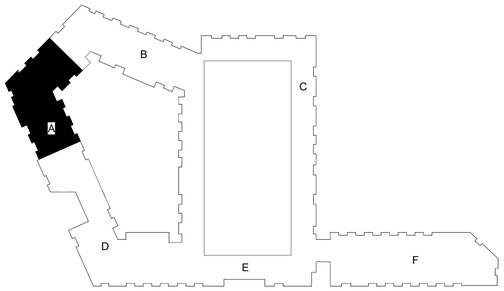
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING A FIRST FLOOR PLAN - HVAC

SHEET NUMBER

M1.11A



NORTH

1 BUILDING A SECOND FLOOR PLAN
HVAC
1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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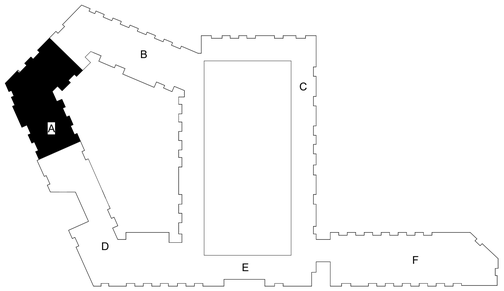
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

BUILDING A SECOND FLOOR PLAN - HVAC

SHEET NUMBER

M1.12A



NORTH

1 BUILDING A THIRD FLOOR PLAN
HVAC
1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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9625 College Boulevard, Suite 102
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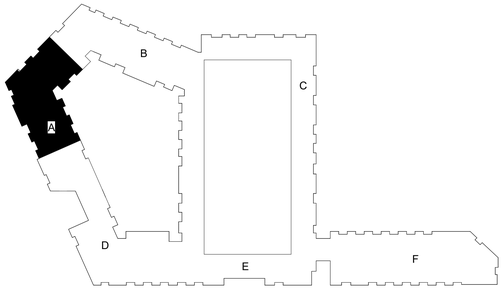
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING A THIRD FLOOR PLAN - HVAC

SHEET NUMBER

M1.13A



NORTH

1 BUILDING A FOURTH FLOOR PLAN

HVAC

1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
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LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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9625 College Boulevard, Suite 102
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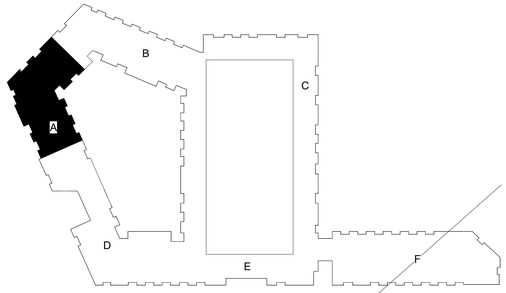
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

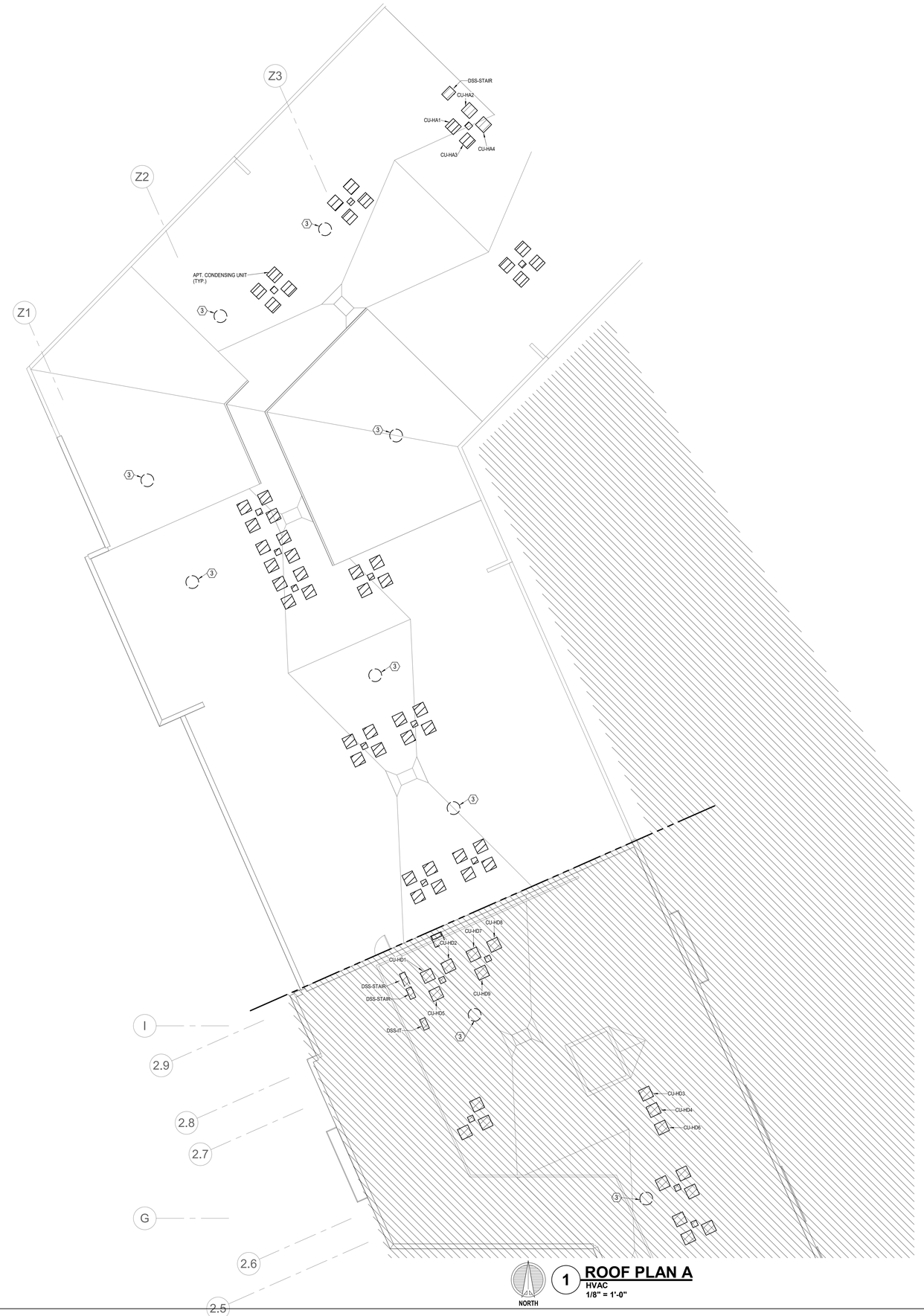
SHEET TITLE

BUILDING A FOURTH FLOOR PLAN - HVAC

SHEET NUMBER

M1.14A





NORTH

1 ROOF PLAN A
HVAC
1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN A - HVAC

SHEET NUMBER

M1.15A

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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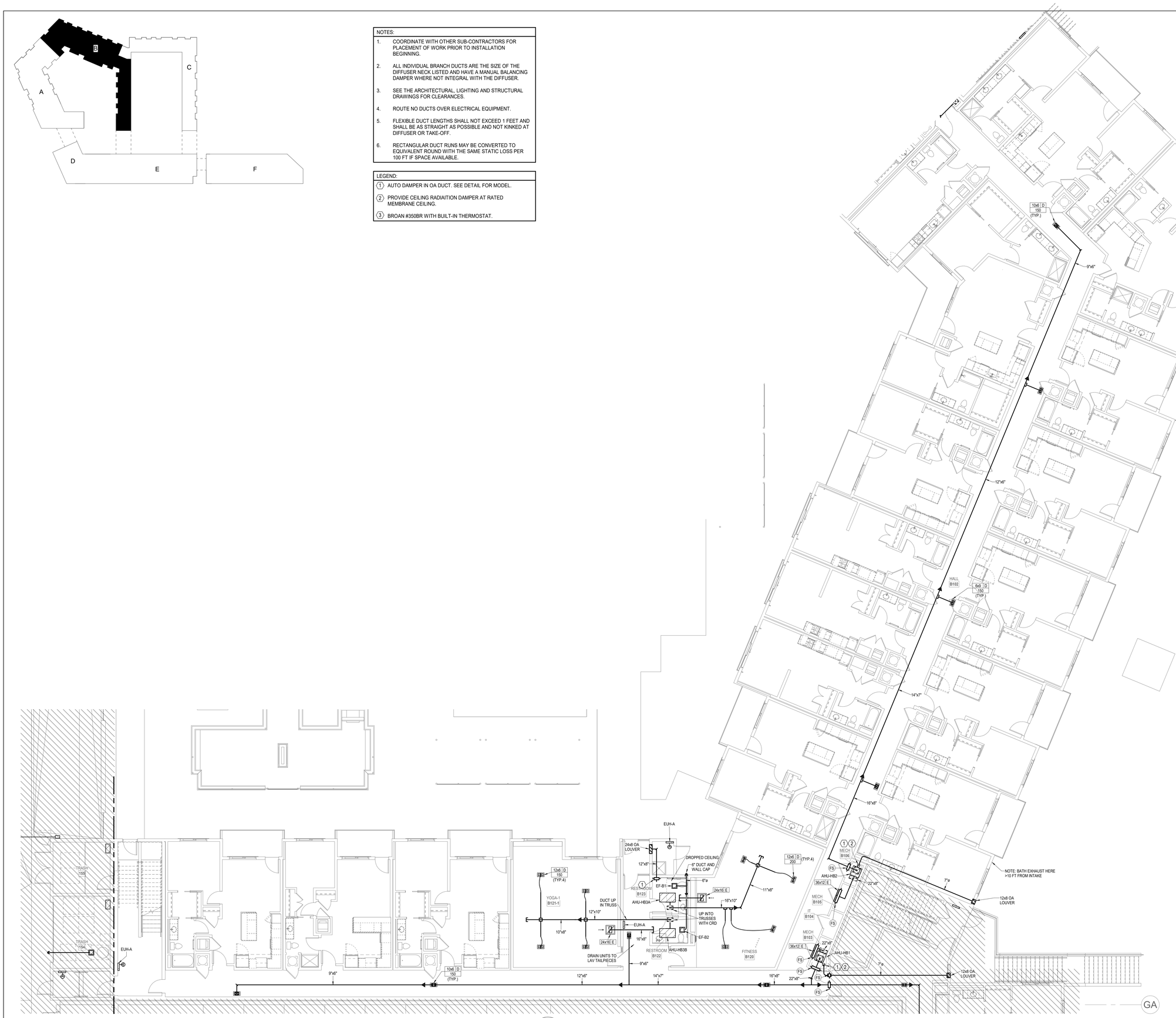
(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING B 1ST FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Telephone: (785) 233-5222
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING B FIRST FLOOR PLAN - HVAC

SHEET NUMBER

M1.21B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

NORTH

1 BUILDING B 2ND FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2009018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B SECOND FLOOR PLAN - HVAC

SHEET NUMBER

M1.22B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.

NORTH

1 BUILDING B 3RD FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B THIRD FLOOR PLAN - HVAC

SHEET NUMBER

M1.23B

NOTES:

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

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(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

1 BUILDING B 4TH FLOOR PLAN

HVAC

1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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9625 College Boulevard, Suite 102
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Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING B FOURTH FLOOR PLAN - HVAC

SHEET NUMBER

M1.24B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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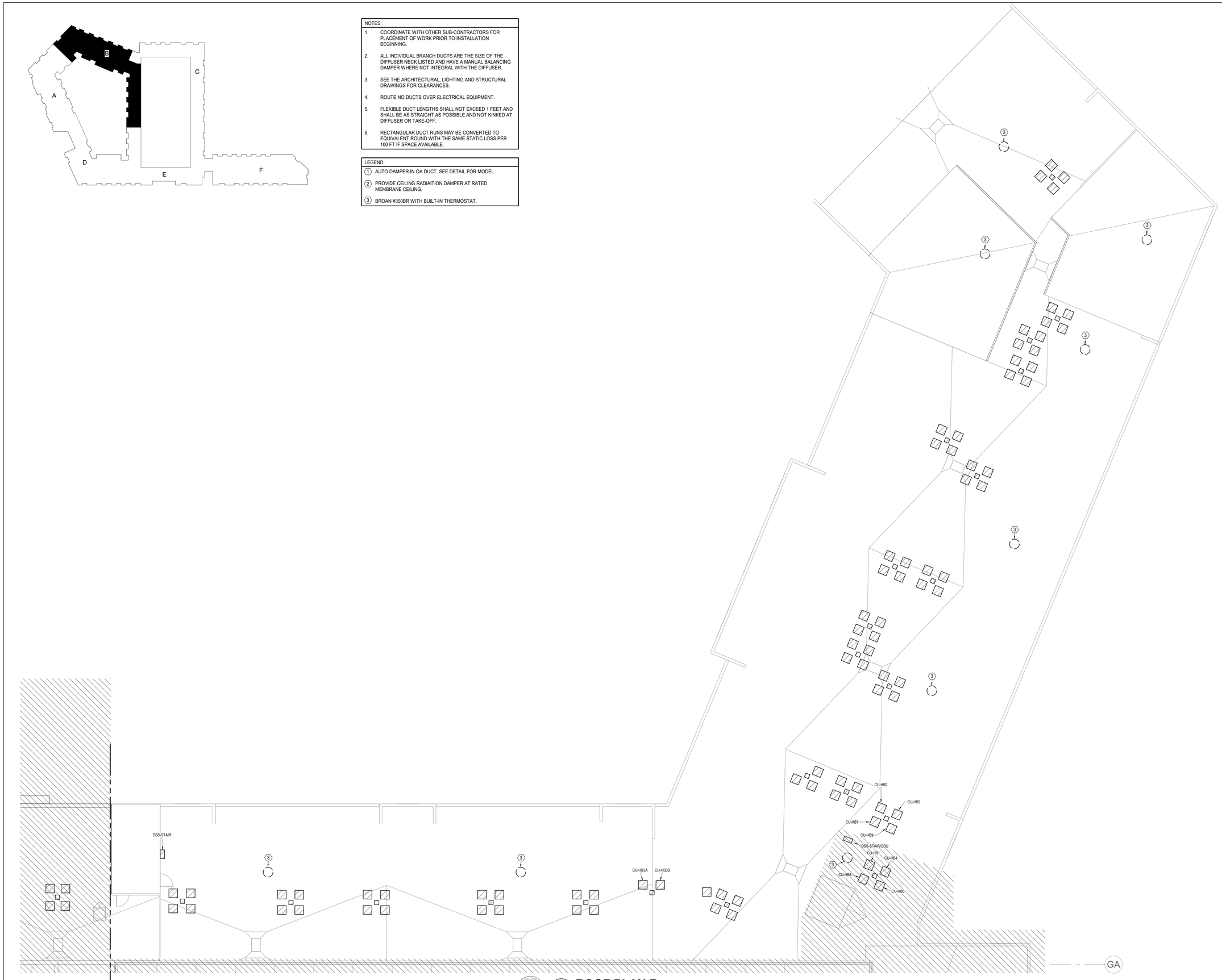

NORTH

1 ROOF PLAN B

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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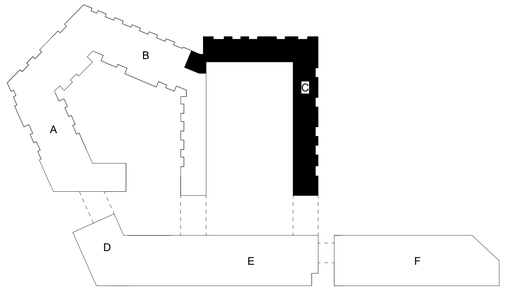
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN B - HVAC

SHEET NUMBER

M1.25B



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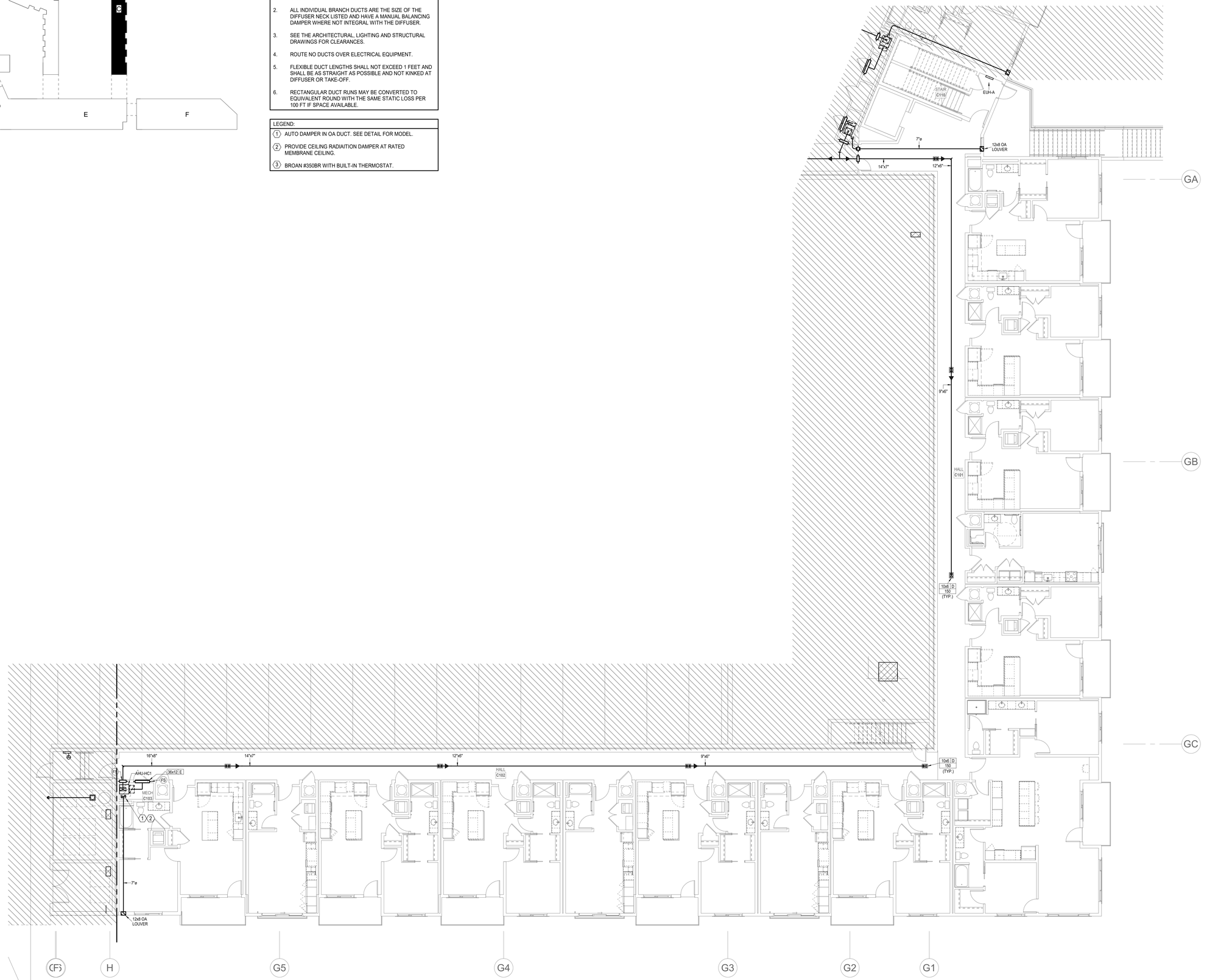

1 **BUILDING C 1ST FLOOR PLAN**
HVAC
1/8" = 1'-0"

NORTH

7/25/2022 12:11:21 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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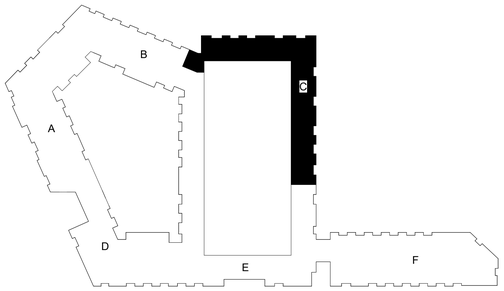
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING C
FIRST FLOOR
PLAN - HVAC

SHEET NUMBER

M1.31C



NOTES:

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3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

NORTH

1 BUILDING C 2ND FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

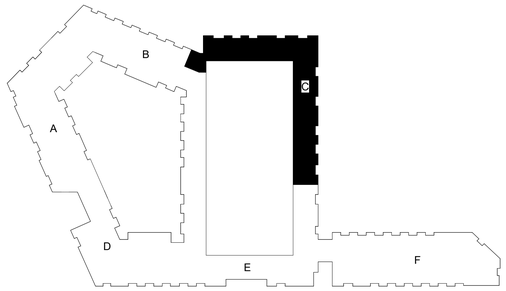
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING C
SECOND FLOOR
PLAN - HVAC

SHEET NUMBER

M1.32C



NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
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LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.

NORTH

1 BUILDING C 3RD FLOOR PLAN

HVAC
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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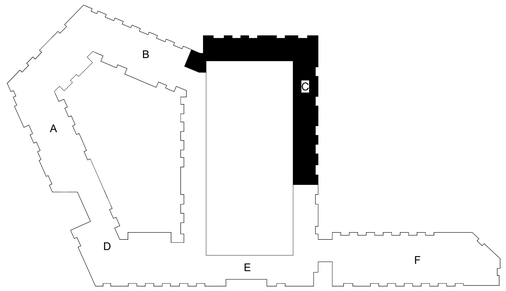
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING C
THIRD FLOOR
PLAN - HVAC

SHEET NUMBER

M1.33C



NOTES:

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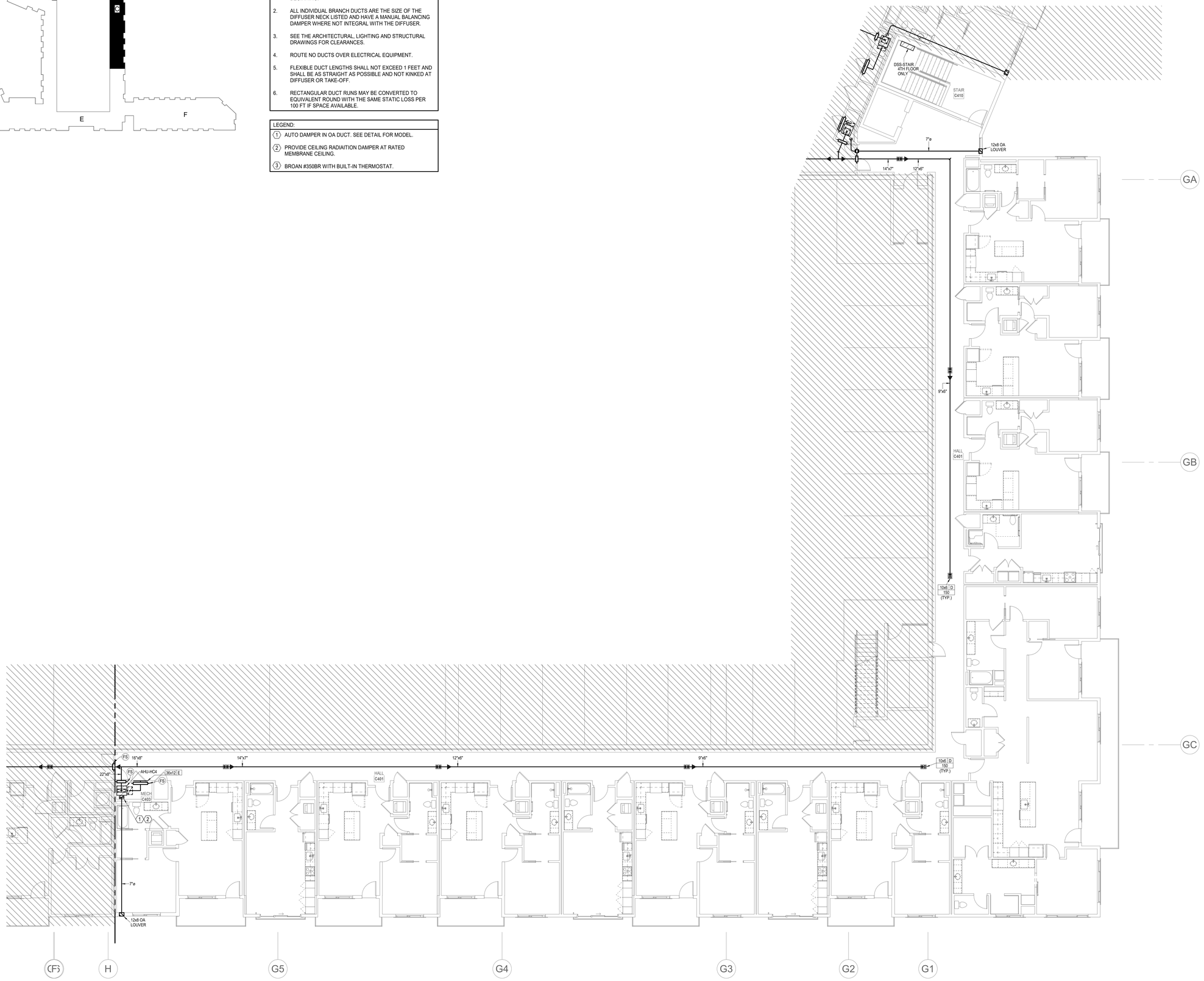
(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING C 4TH FLOOR PLAN

NOT TO SCALE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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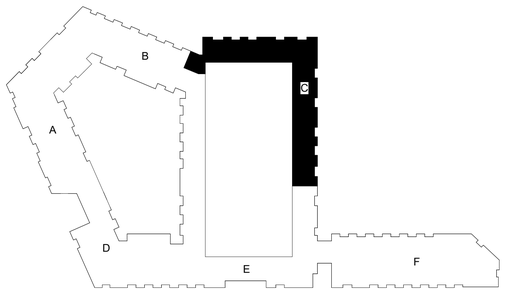
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

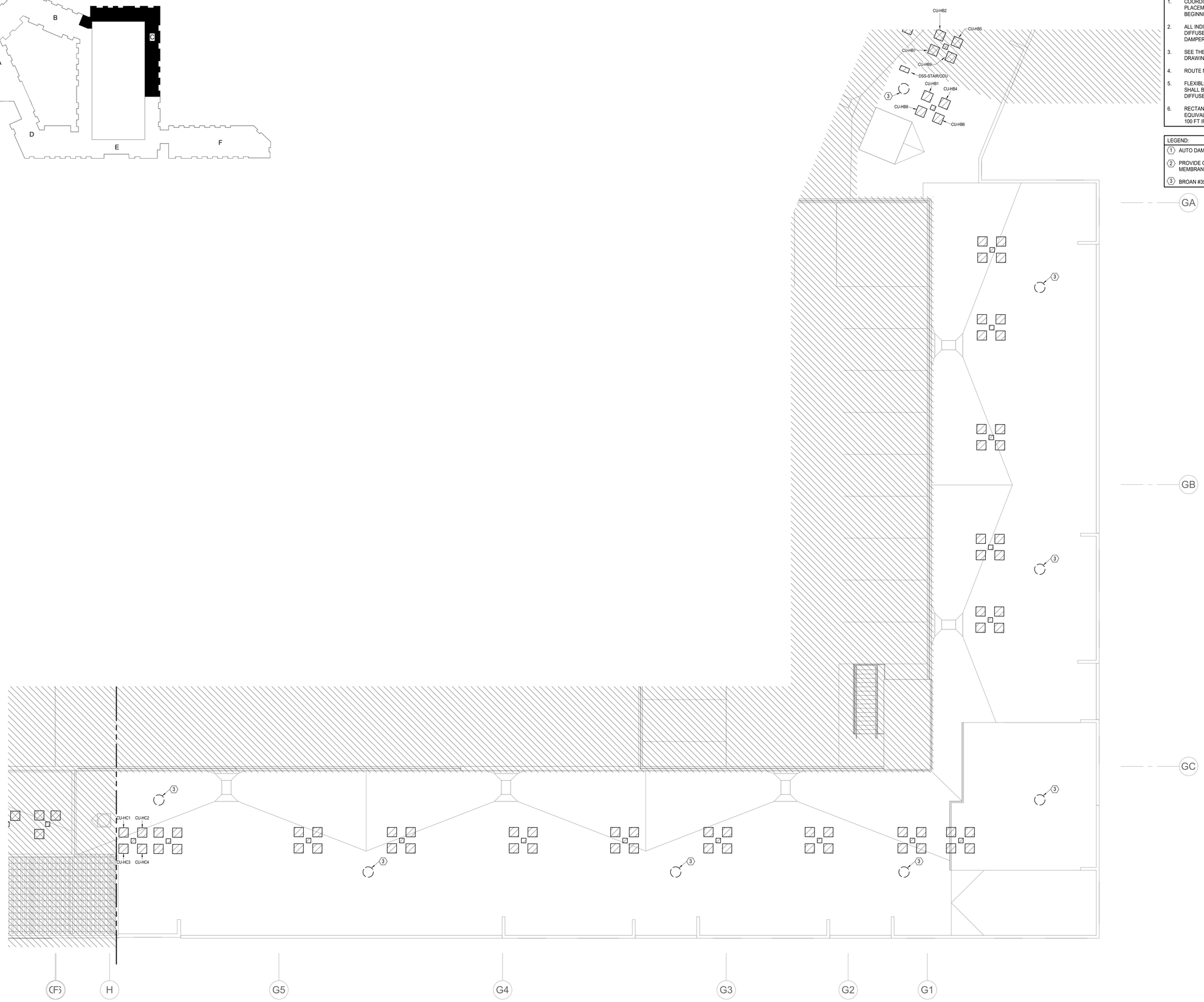
SHEET TITLE

BUILDING C
FOURTH FLOOR
PLAN - HVAC

SHEET NUMBER

M1.34C





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LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

NORTH

1 **ROOF PLAN C**
HVAC
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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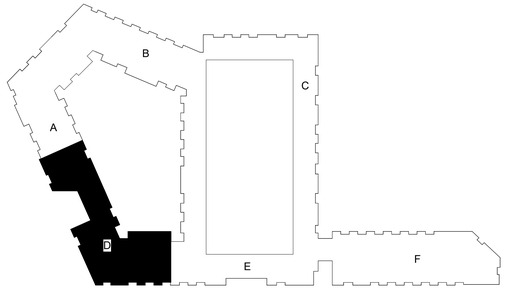
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN C - HVAC

SHEET NUMBER

M1.35C



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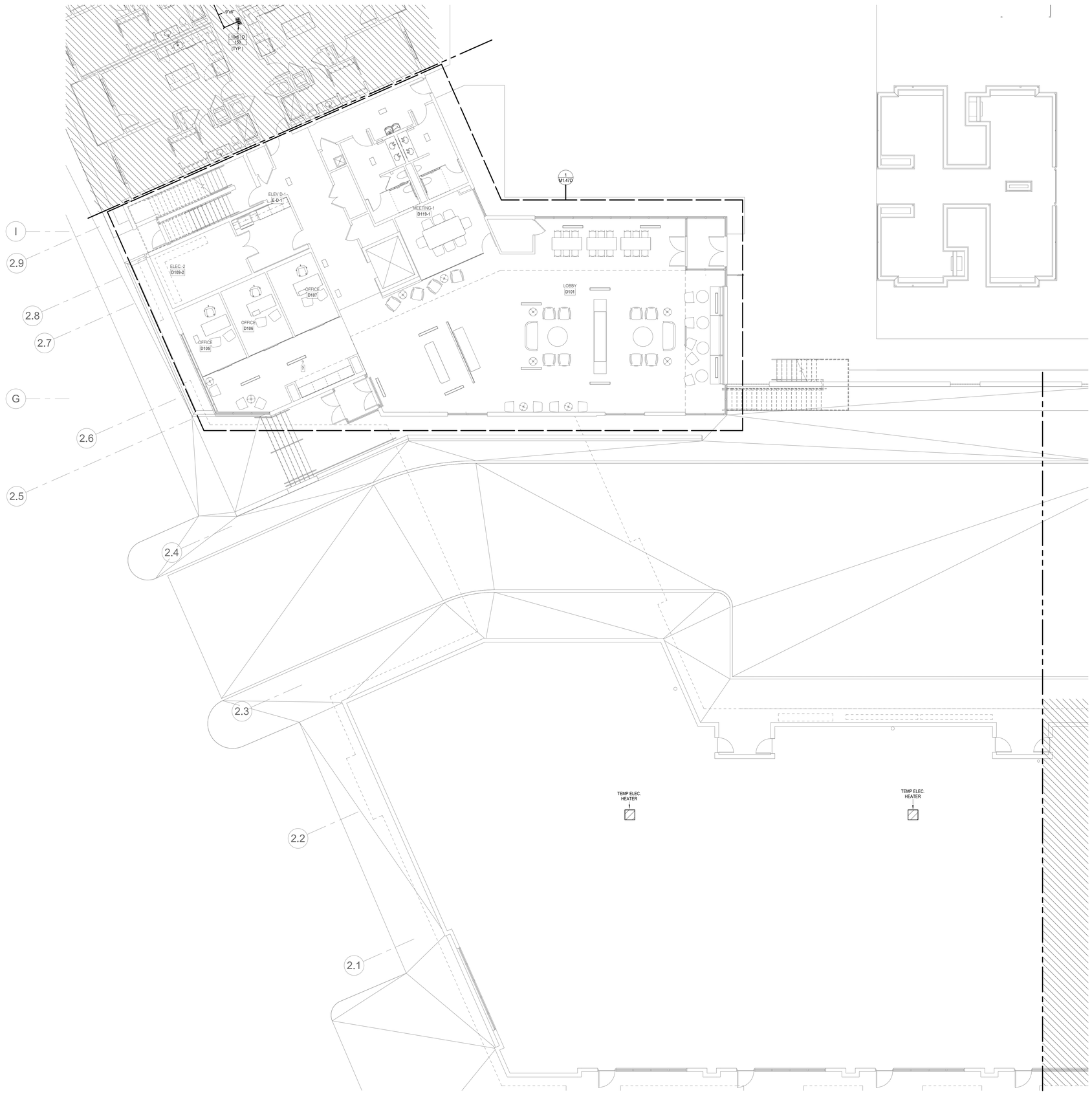
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.



1 BUILDING D 1ST FLOOR PLAN

HVAC

1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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3639 SW Summerfield Drive, Suite A
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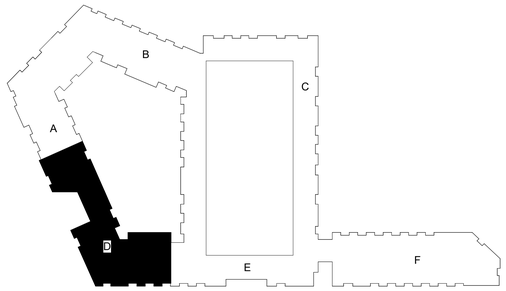
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3222
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D
FIRST FLOOR
PLAN - HVAC

SHEET NUMBER

M1.41D



NOTES:

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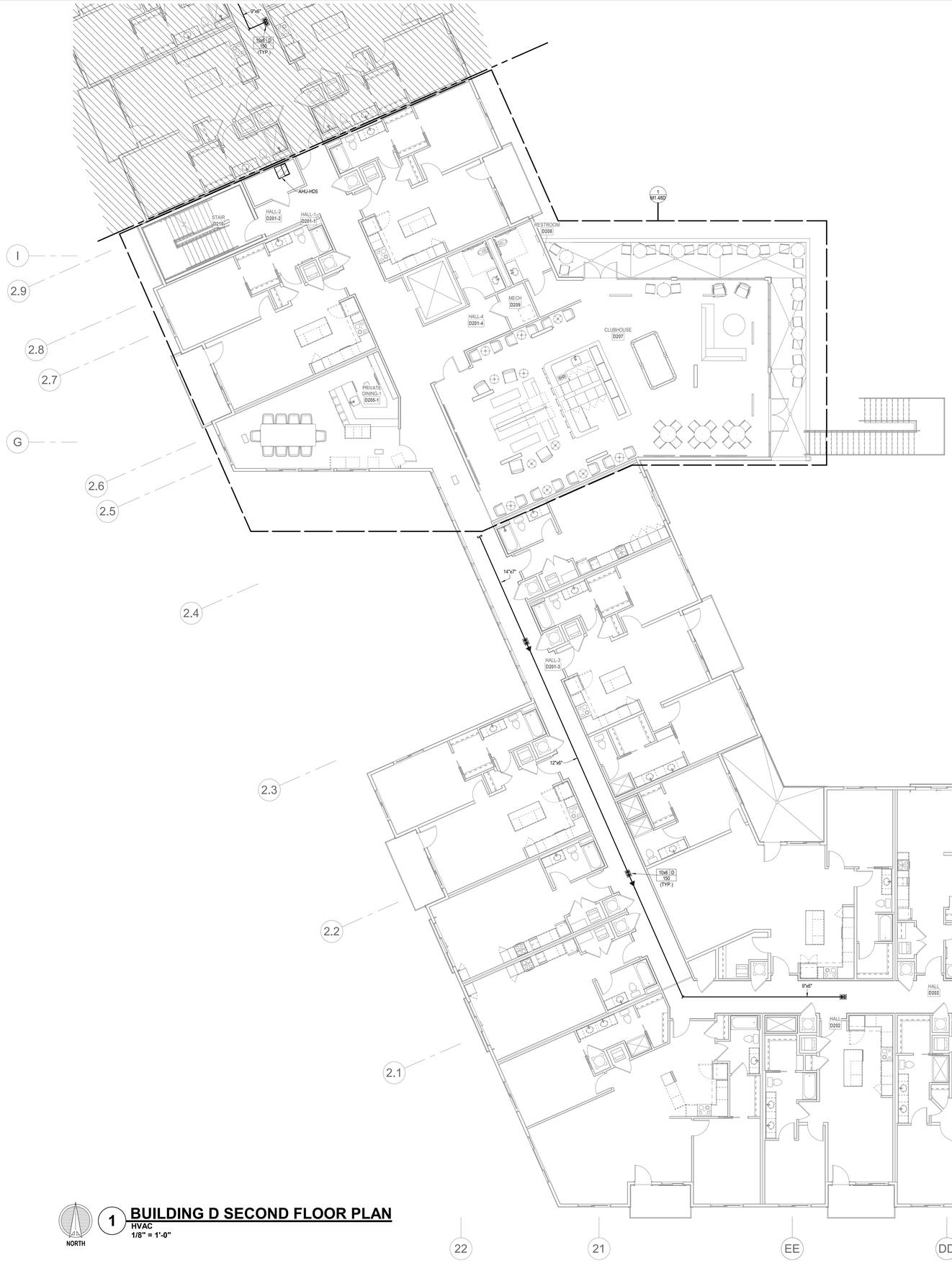
LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



1 **BUILDING D SECOND FLOOR PLAN**
HVAC
1/8" = 1'-0"

NORTH

7/25/2022 12:11:39 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

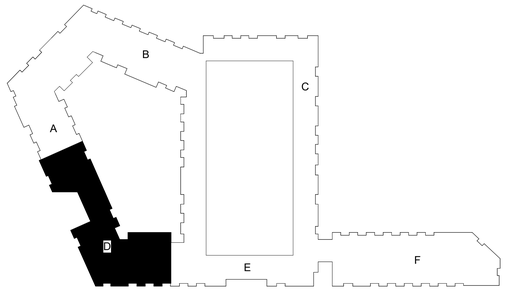
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D SECOND FLOOR PLAN - HVAC

SHEET NUMBER

M1.42D



NOTES:

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2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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LEGEND:

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(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

1 **BUILDING D THIRD FLOOR PLAN**
HVAC
1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010021
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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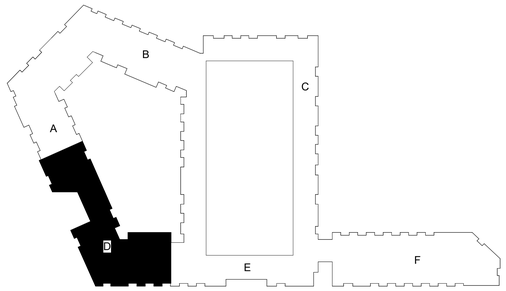
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D
THIRD FLOOR
PLAN - HVAC

SHEET NUMBER

M1.43D



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NORTH

1 **BUILDING D FOURTH FLOOR PLAN**
HVAC
1/8" = 1'-0"

7/25/2022 12:11:48 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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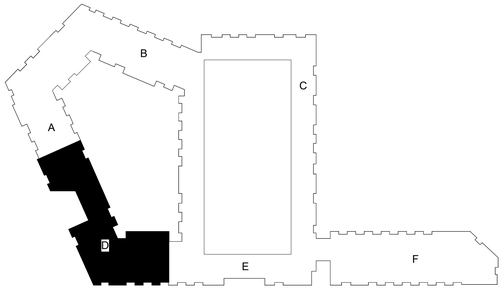
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D FOURTH FLOOR PLAN - HVAC

SHEET NUMBER

M1.44D



NOTES:

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(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

NORTH

1 **BUILDING D FIFTH FLOOR PLAN**
HVAC
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

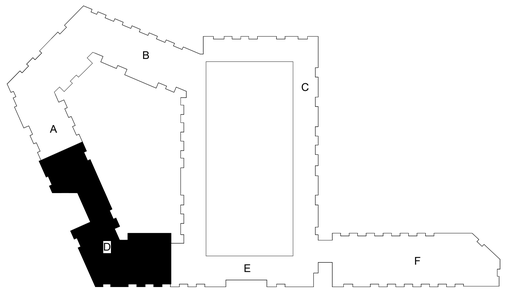
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

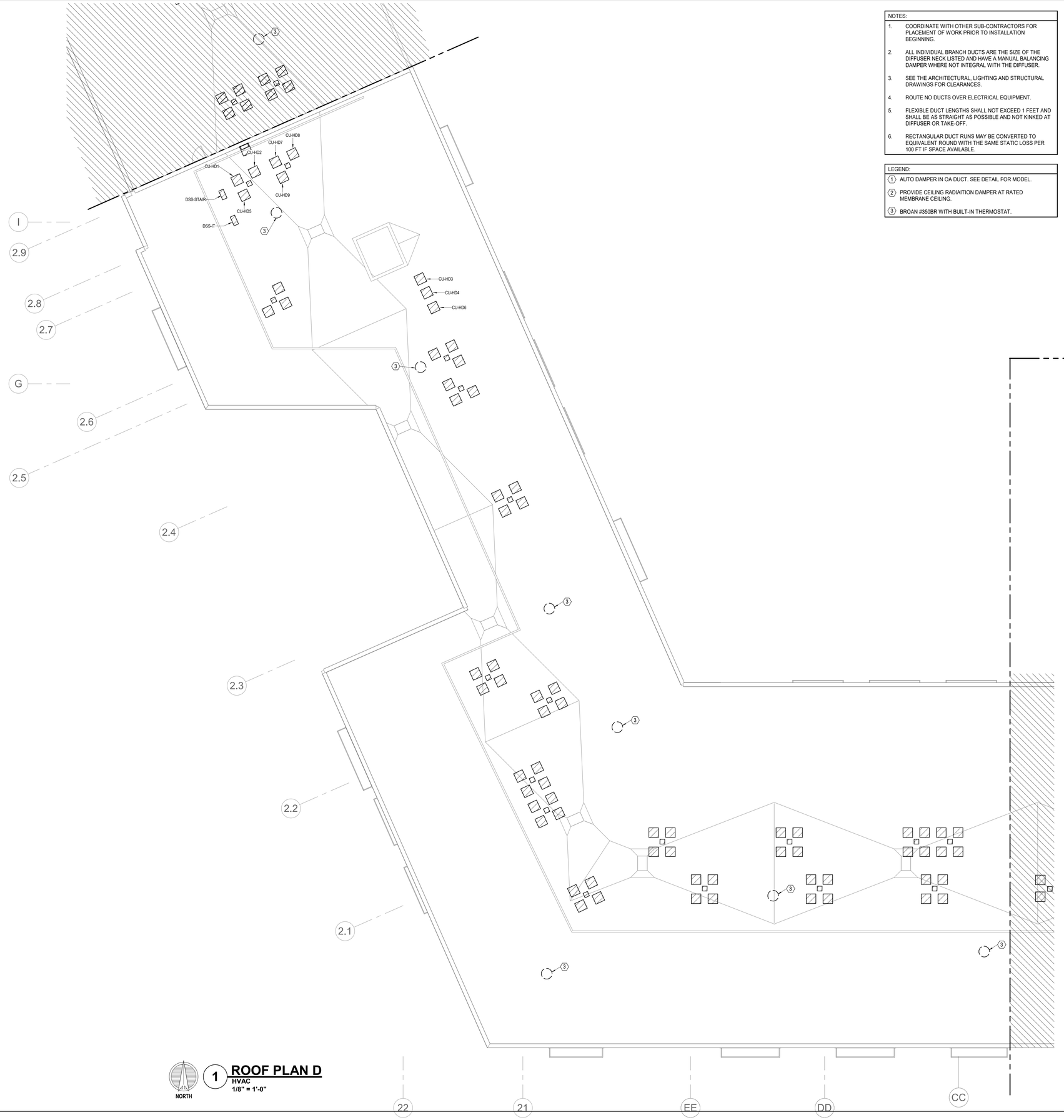
SHEET TITLE

BUILDING D
FIFTH FLOOR
PLAN - HVAC

SHEET NUMBER

M1.45D





NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.

NORTH

1 **ROOF PLAN D**
HVAC
1/8" = 1'-0"

7/25/2022 12:11:51 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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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. 2104043

SHEET TITLE

ROOF PLAN D - HVAC

SHEET NUMBER

M1.46D

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
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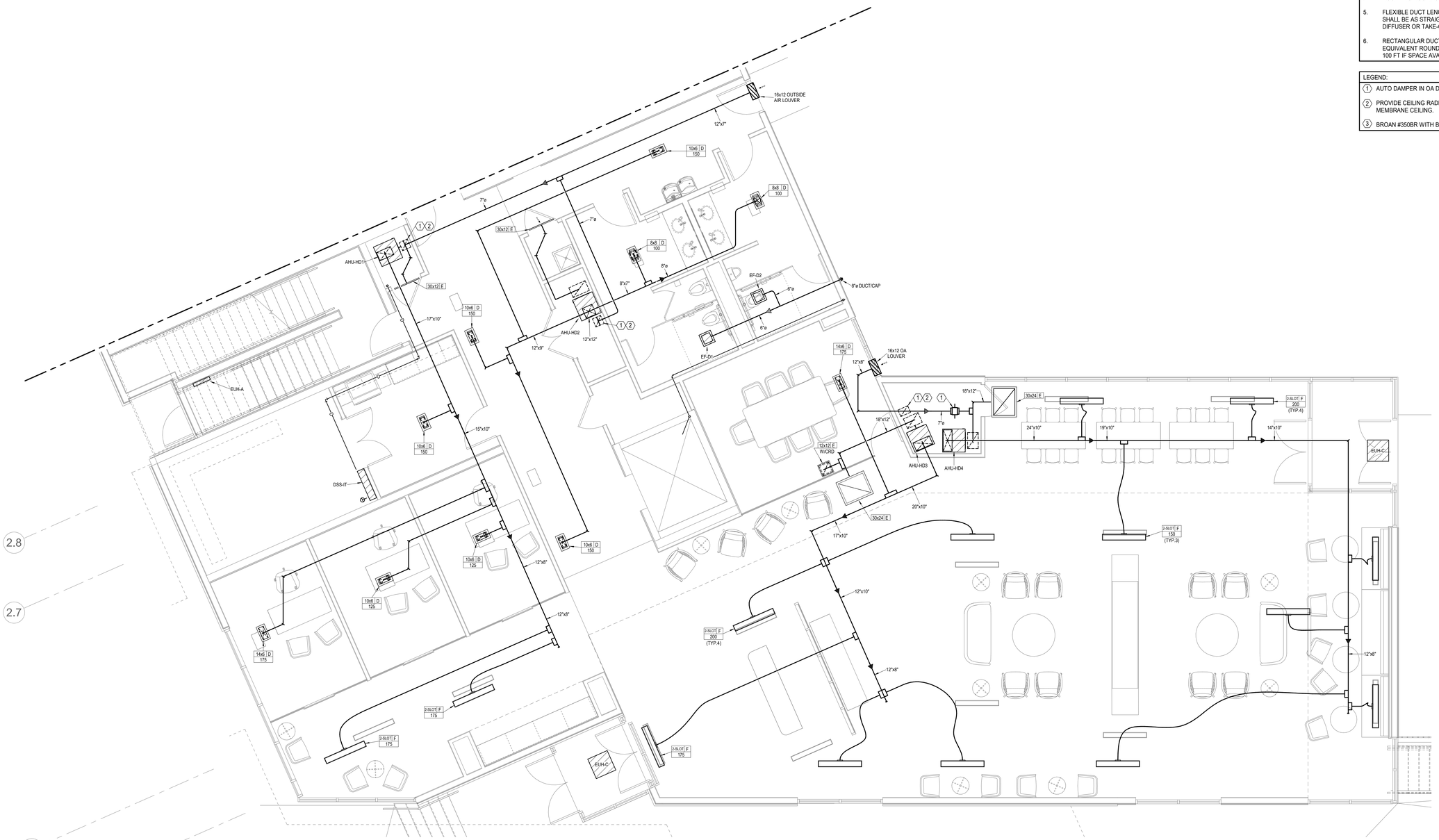
LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 PARTIAL FIRST FLOOR PLAN

HVAC

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2010037766
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210404

SHEET TITLE

BUILDING D FIRST FLOOR PARTIAL PLAN - HVAC

SHEET NUMBER

M1.47D

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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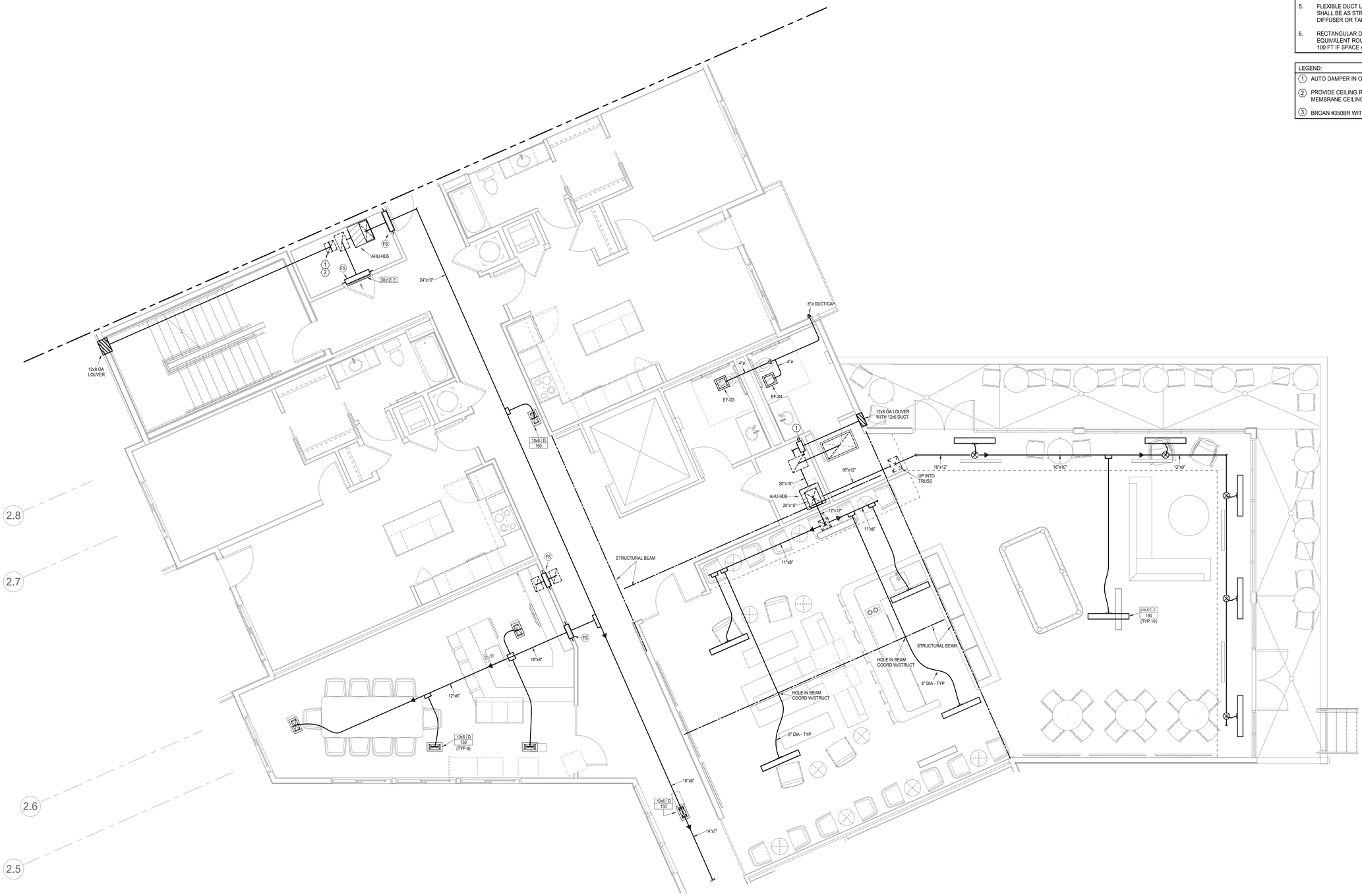
LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 PARTIAL SECOND FLOOR PLAN

HVAC

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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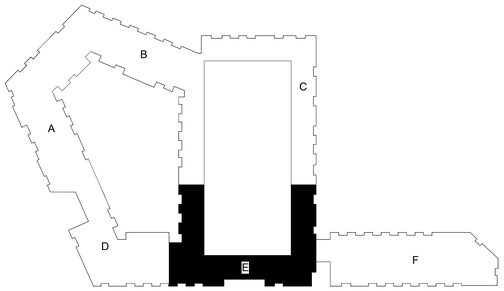
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D SECOND FLOOR PARTIAL PLAN - HVAC

SHEET NUMBER

M1.48D



NOTES:

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4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
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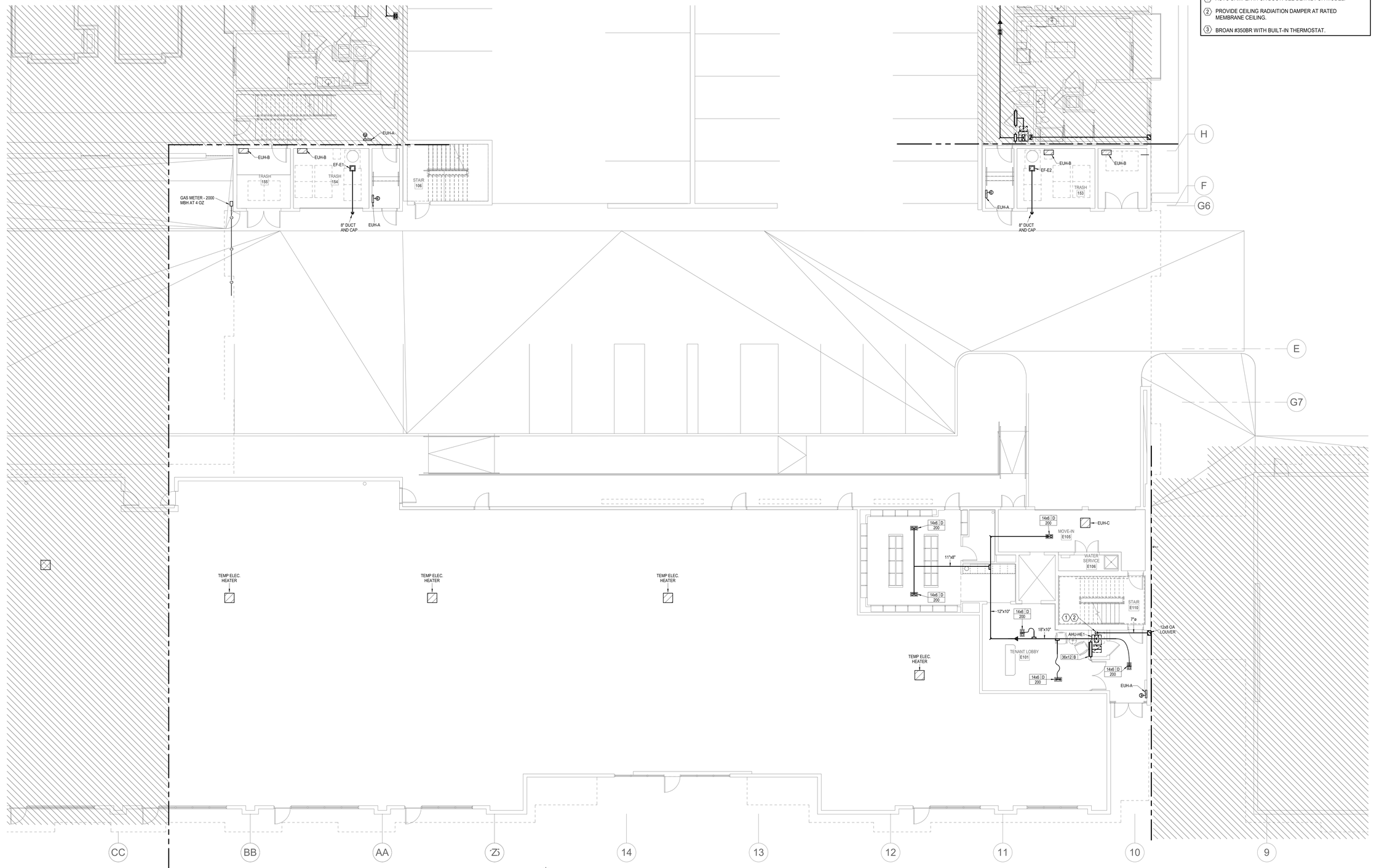
LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING E 1ST FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

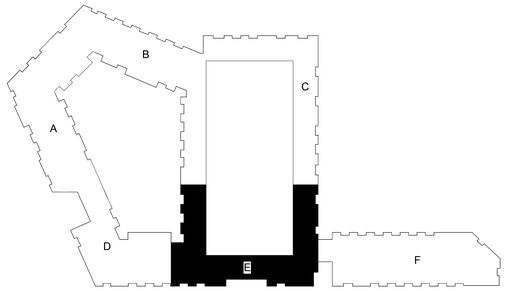
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING E FIRST FLOOR PLAN - HVAC

SHEET NUMBER

M1.51E



NOTES:

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2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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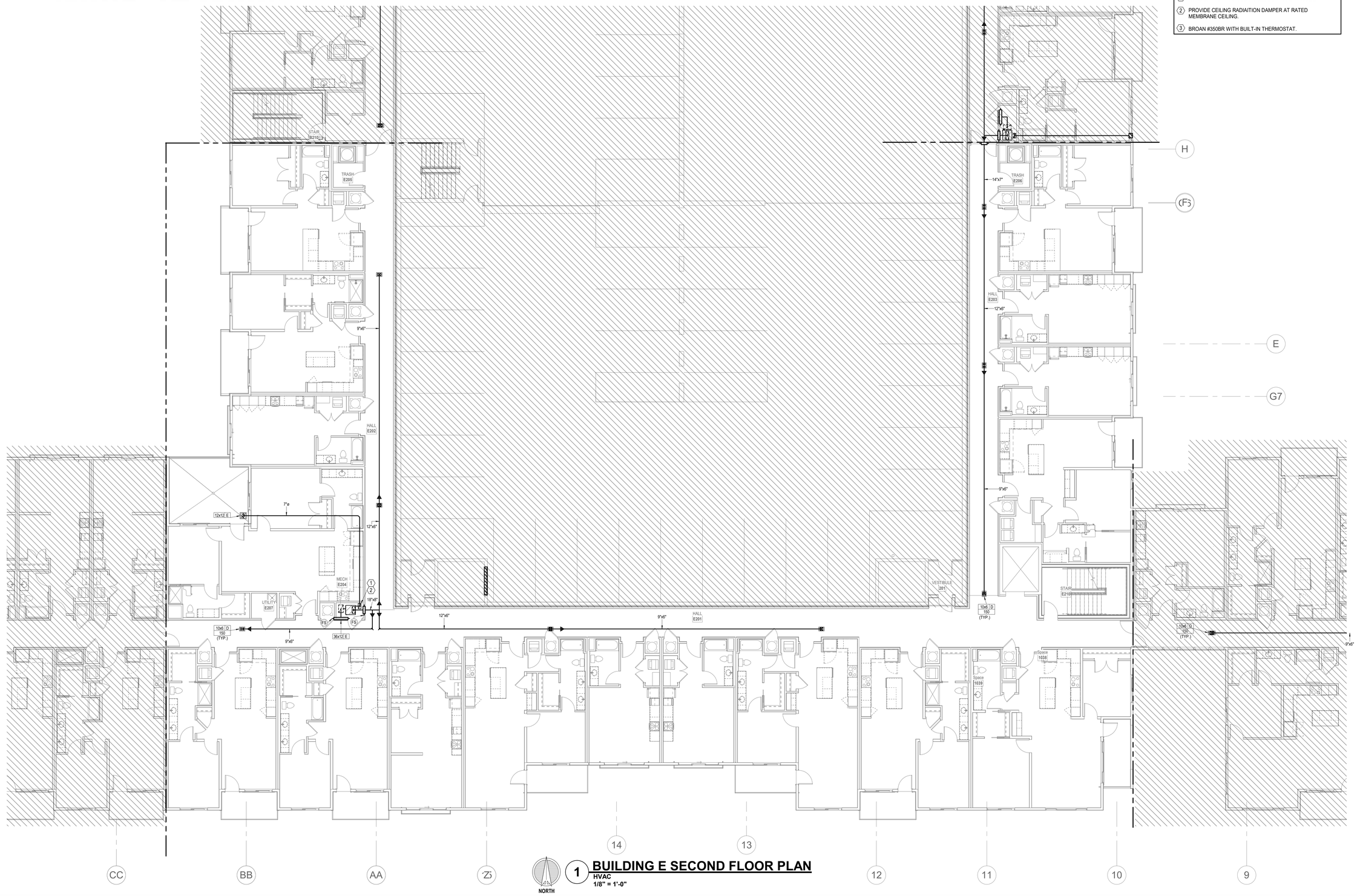
LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.



1 **BUILDING E SECOND FLOOR PLAN**
HVAC
1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

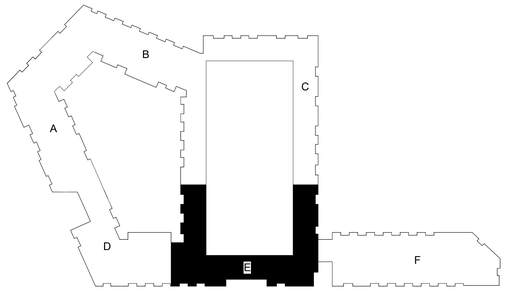
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210403

SHEET TITLE

BUILDING E SECOND FLOOR PLAN - HVAC

SHEET NUMBER

M1.52E



NOTES:

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2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
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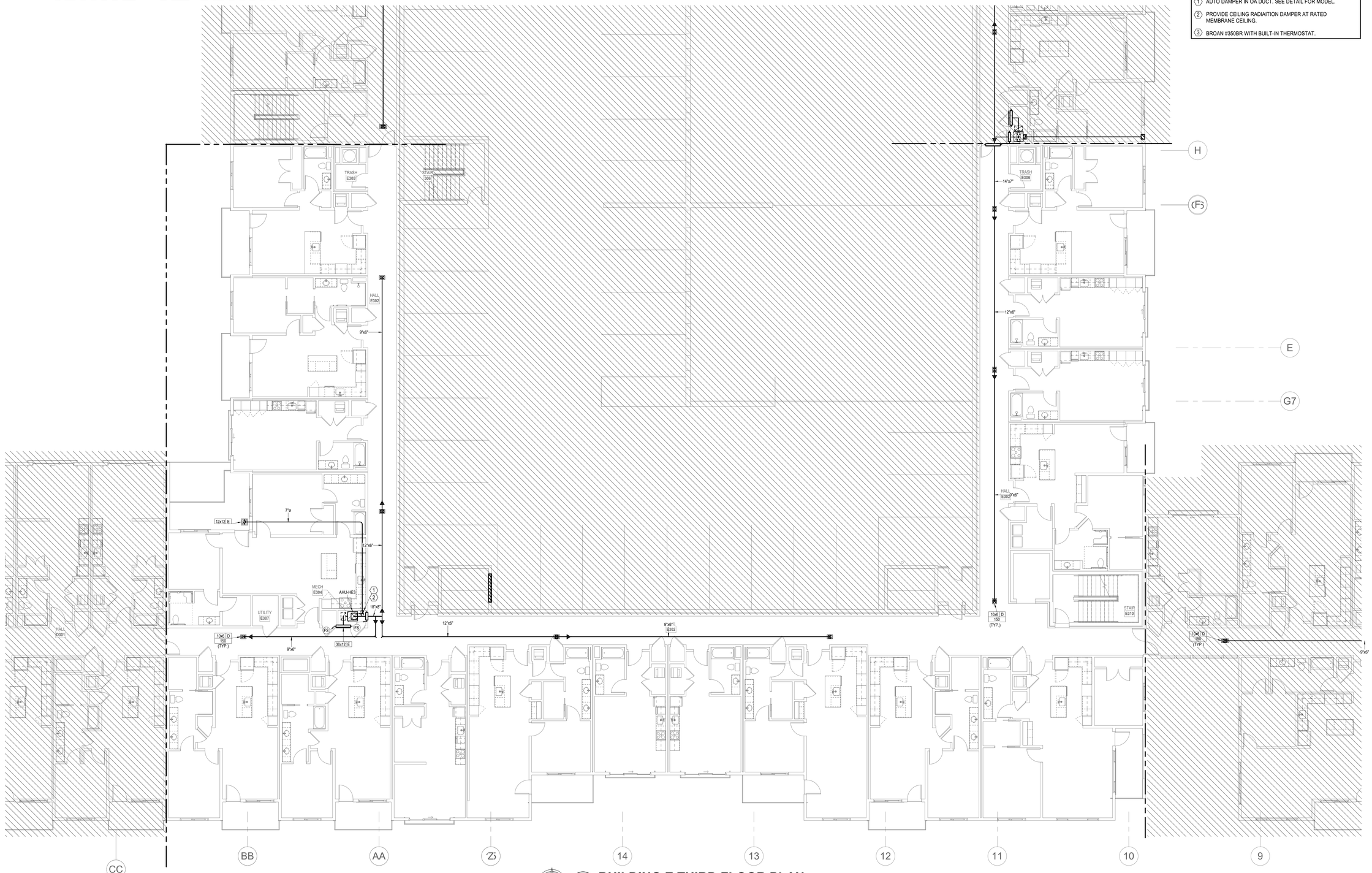
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.



1 **BUILDING E THIRD FLOOR PLAN**
HVAC
1/8" = 1'-0"

NORTH

7/25/2022 12:12:07 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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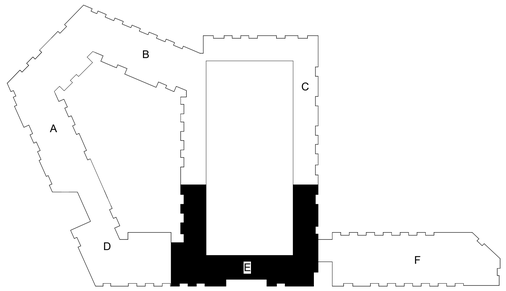
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-5222
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING E THIRD FLOOR PLAN - HVAC

SHEET NUMBER

M1.53E



NOTES:

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LEGEND:

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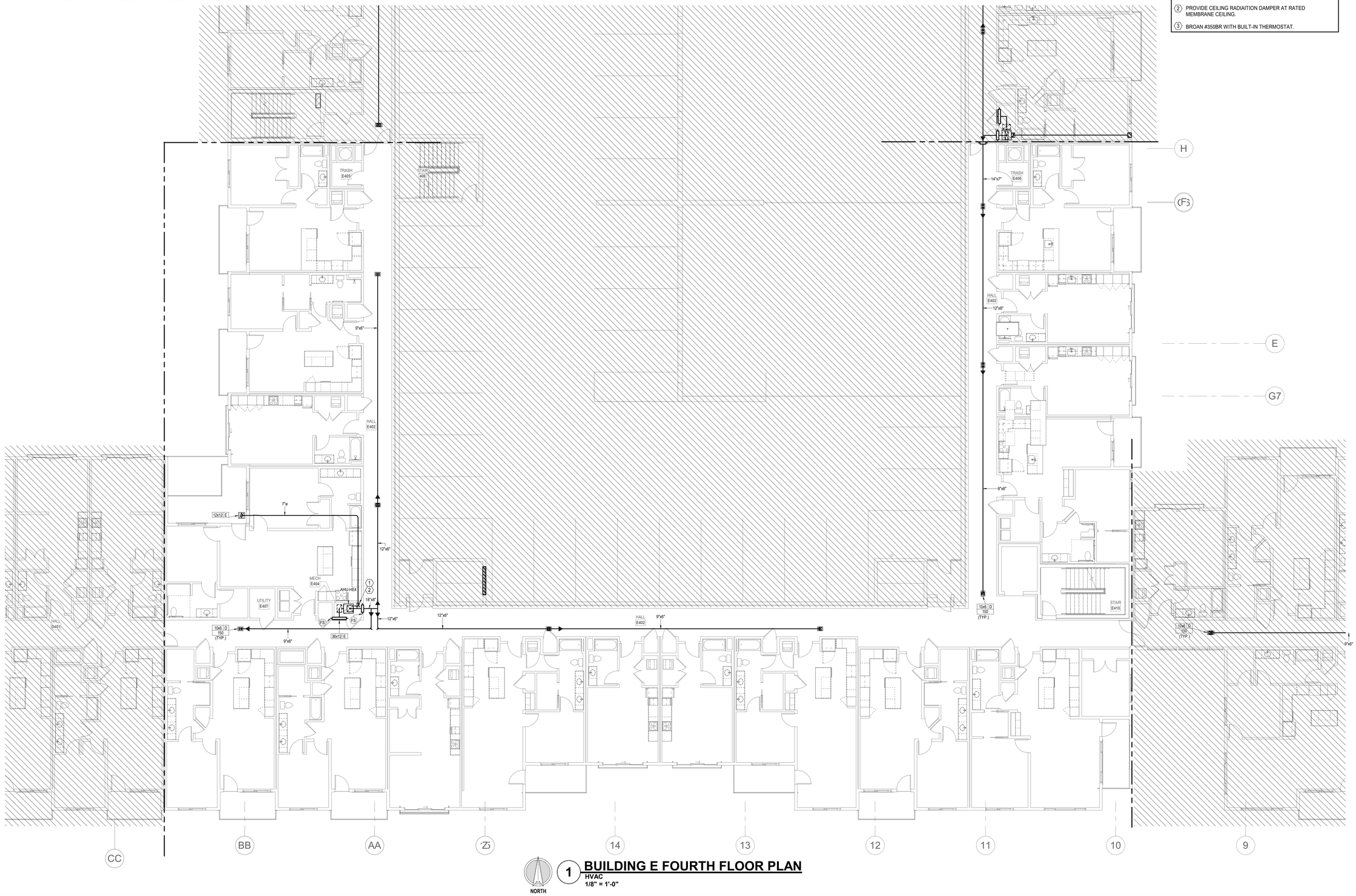
(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING E FOURTH FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010037010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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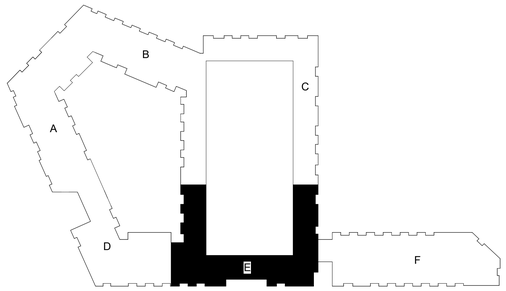
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING E FOURTH FLOOR PLAN - HVAC

SHEET NUMBER

M1.54E



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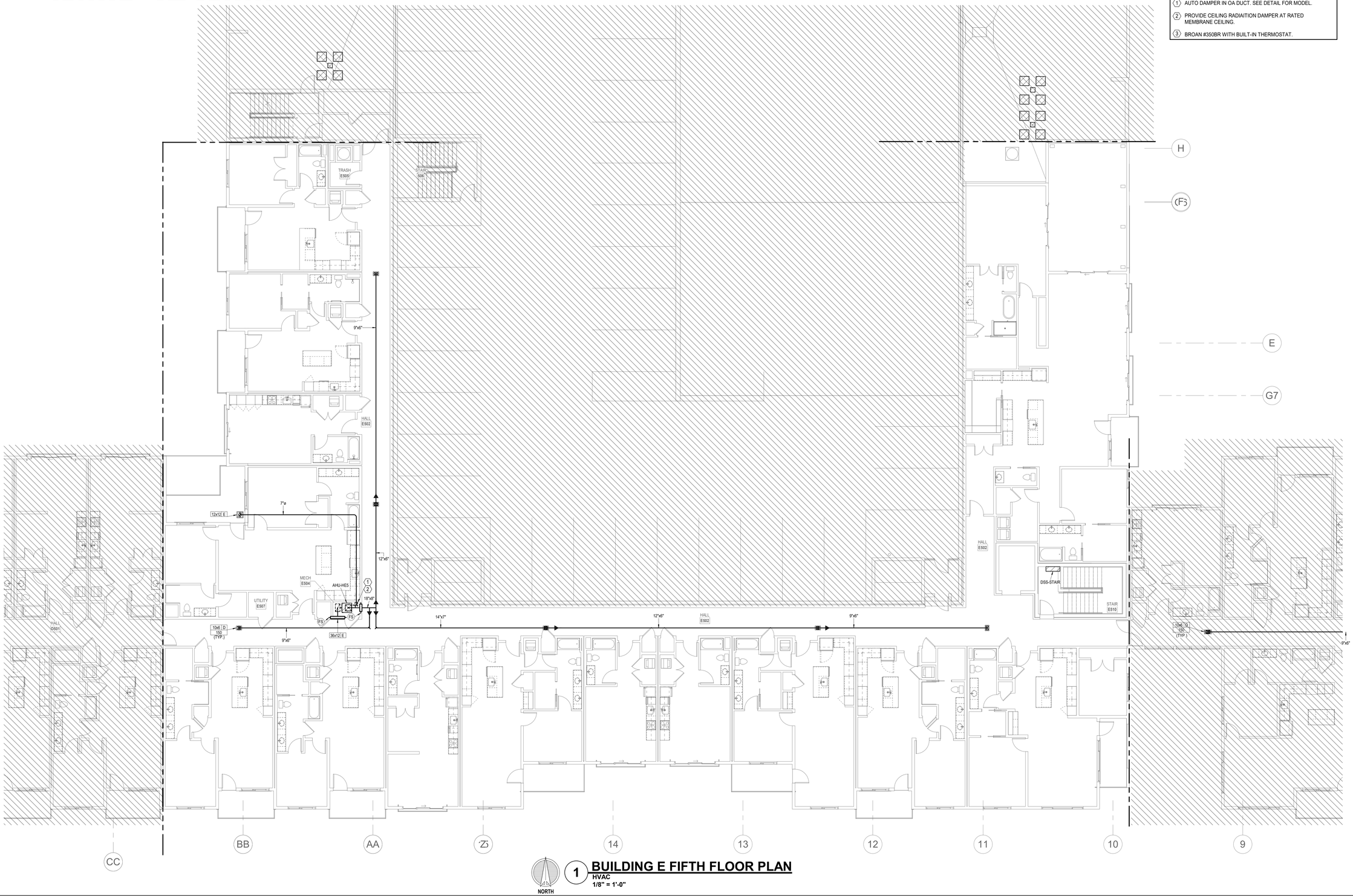

1 BUILDING E FIFTH FLOOR PLAN

HVAC

1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

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2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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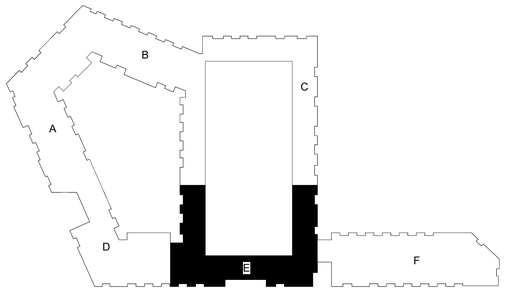
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING E FIFTH FLOOR PLAN - HVAC

SHEET NUMBER

M1.55E



NOTES:

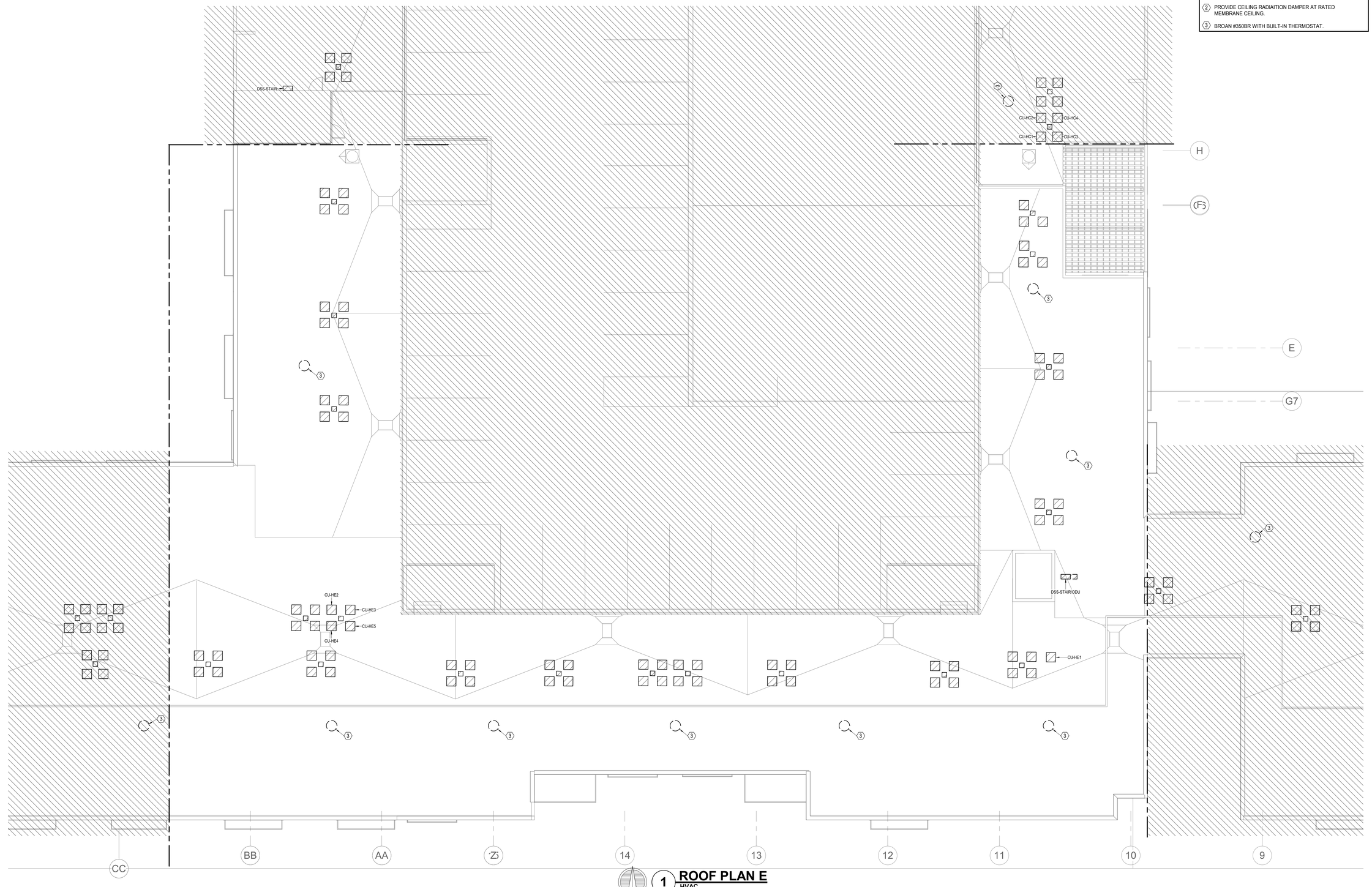
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



1 ROOF PLAN E
HVAC
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

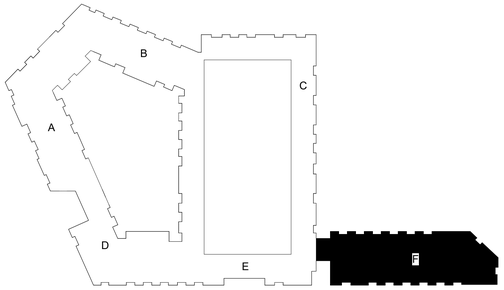
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3222
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN E - HVAC

SHEET NUMBER

M1.56E



NOTES:

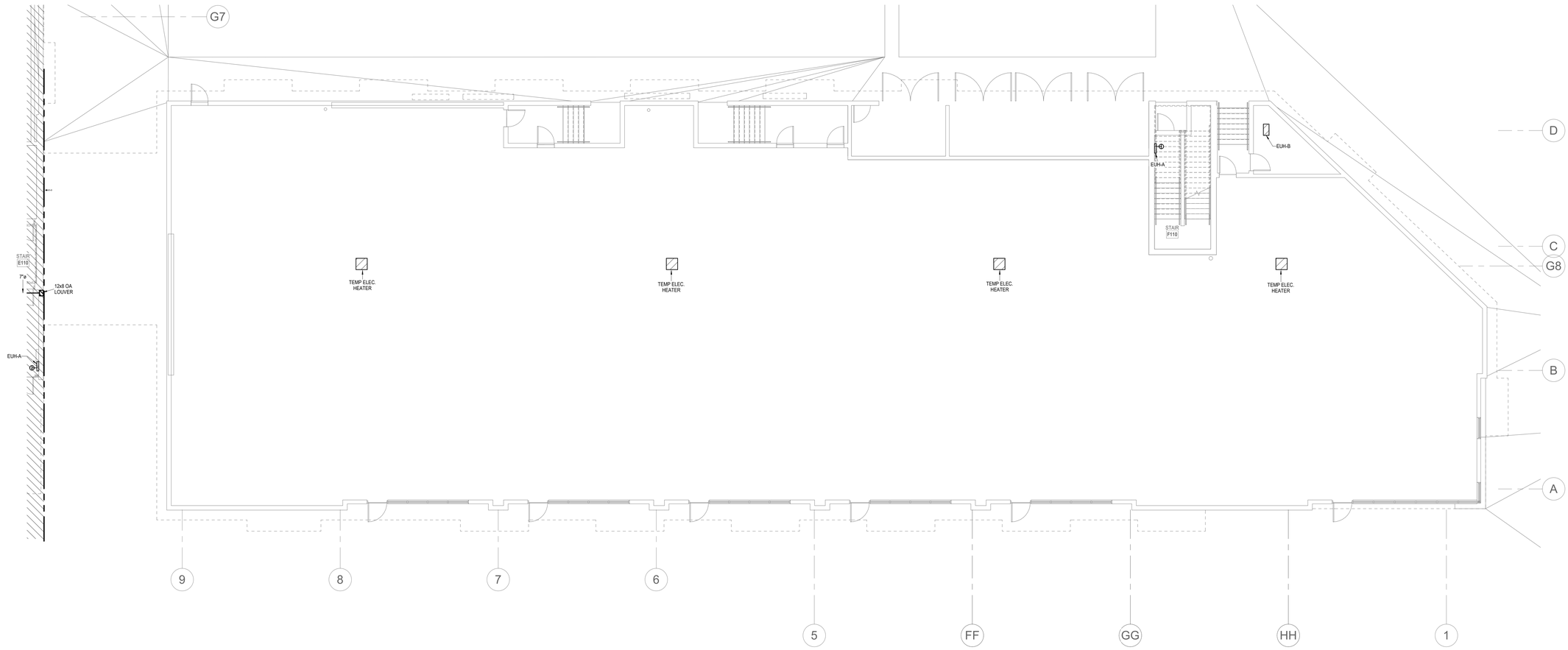
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

(1) AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.

(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING F 1ST FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
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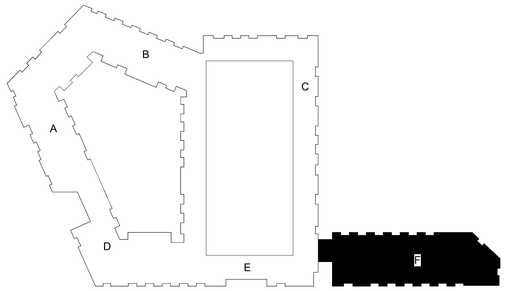
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FIRST FLOOR PLAN - HVAC

SHEET NUMBER

M1.61F

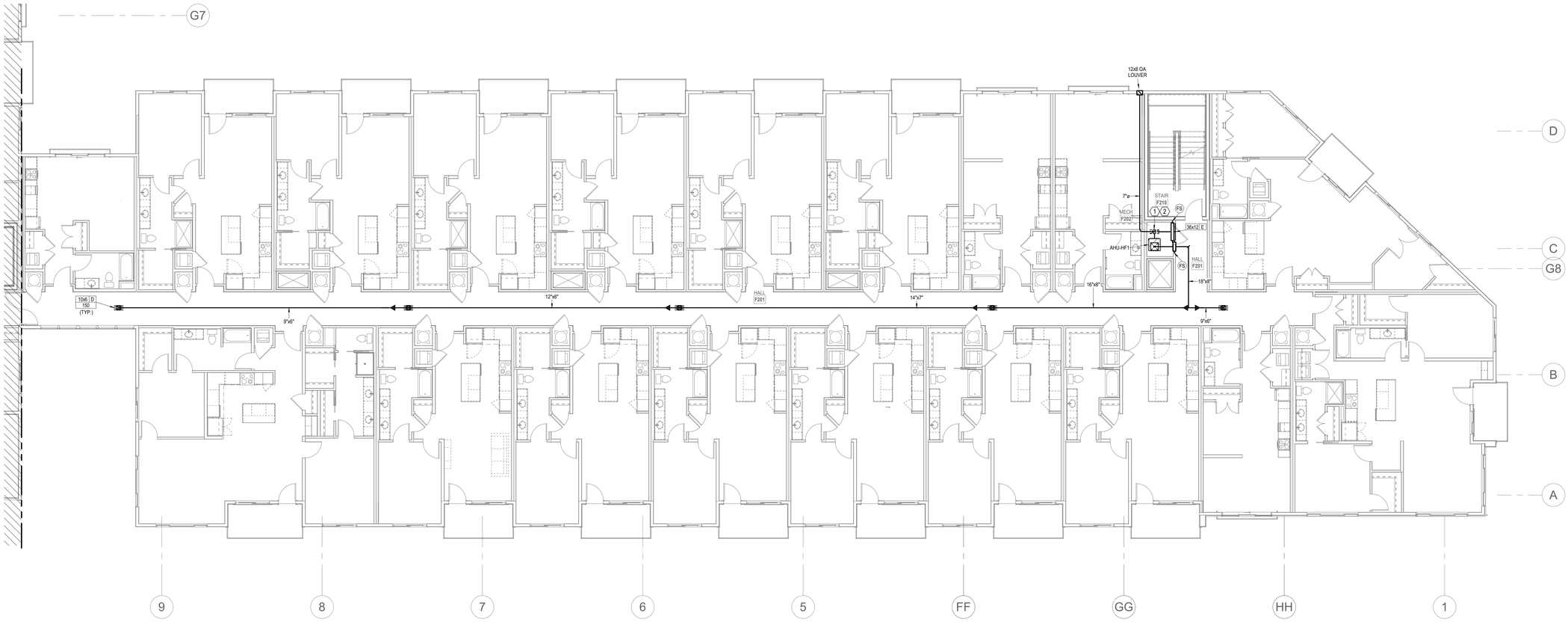


NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 1 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING F SECOND FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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3639 SW Summerfield Drive, Suite A
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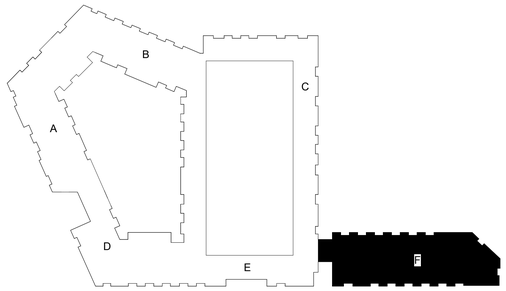
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F SECOND FLOOR PLAN - HVAC

SHEET NUMBER

M1.62F



NOTES:

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2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
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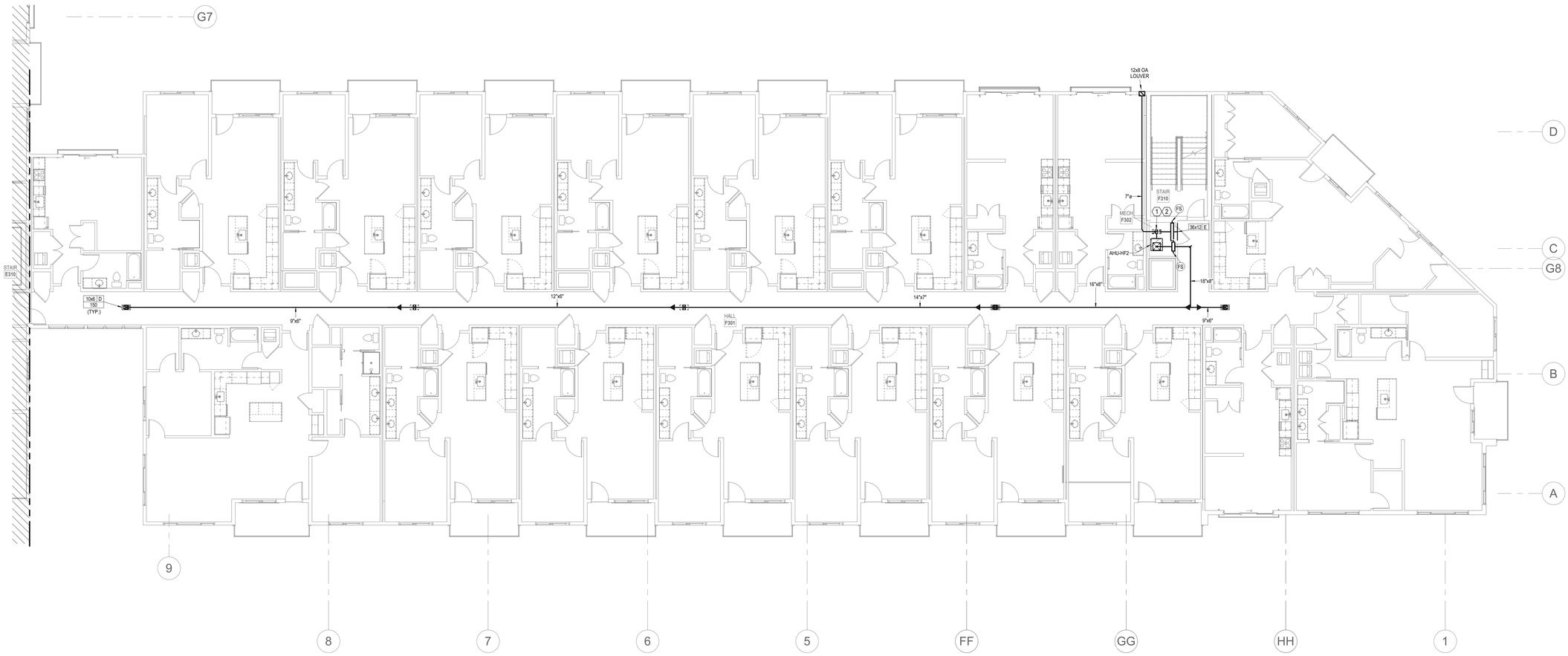
6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT IF SPACE AVAILABLE.

LEGEND:

1. AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
2. PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.



1 BUILDING F THIRD FLOOR PLAN

HVAC

1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

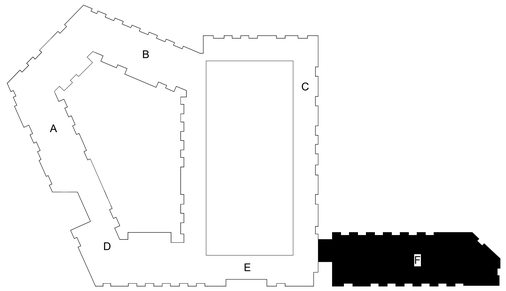
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING F THIRD FLOOR PLAN - HVAC

SHEET NUMBER

M1.63F



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LEGEND:

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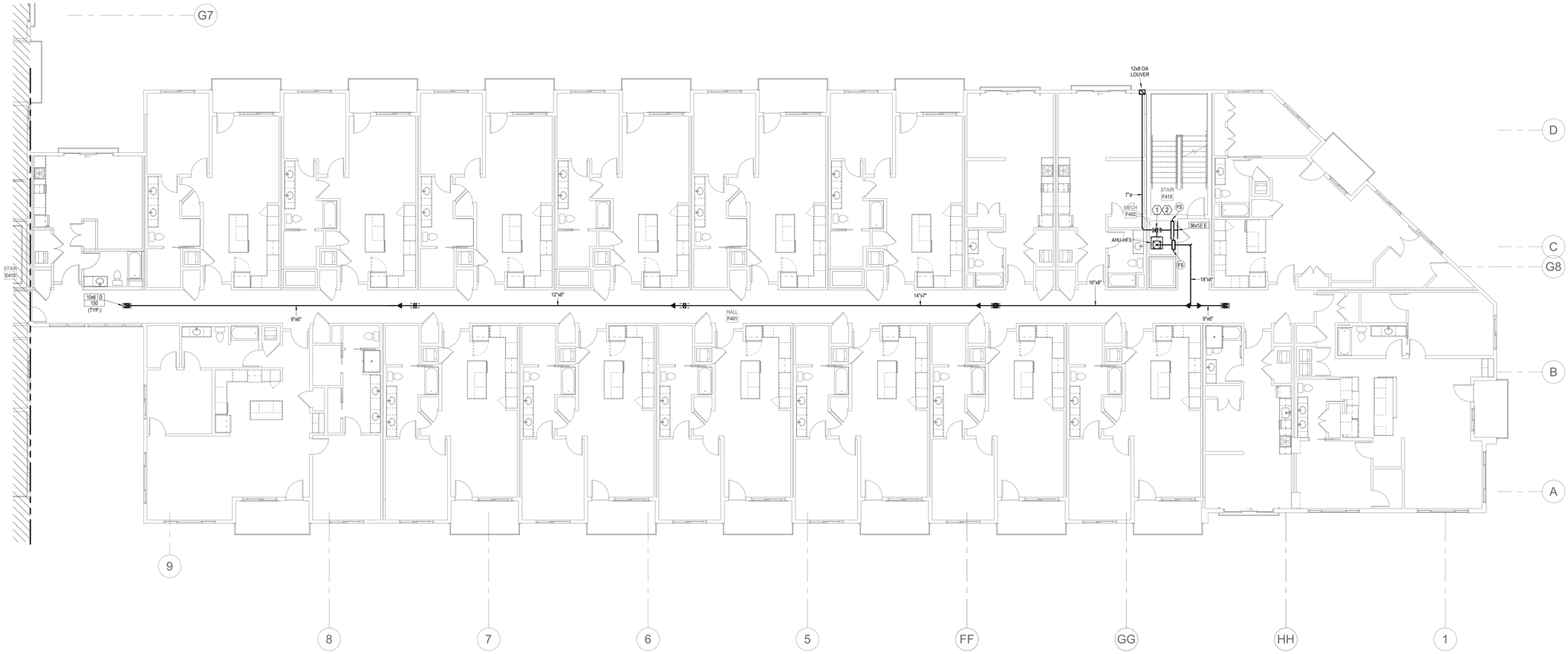
2. PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.
3. BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING F FOURTH FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

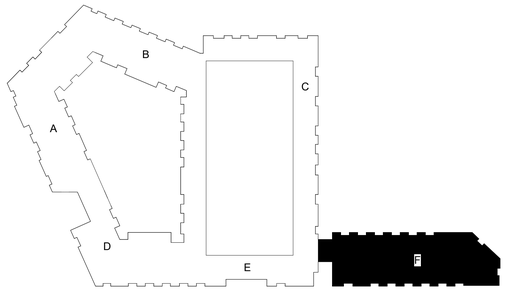
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FOURTH FLOOR PLAN - HVAC

SHEET NUMBER

M1.64F



NOTES:

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3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
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LEGEND:

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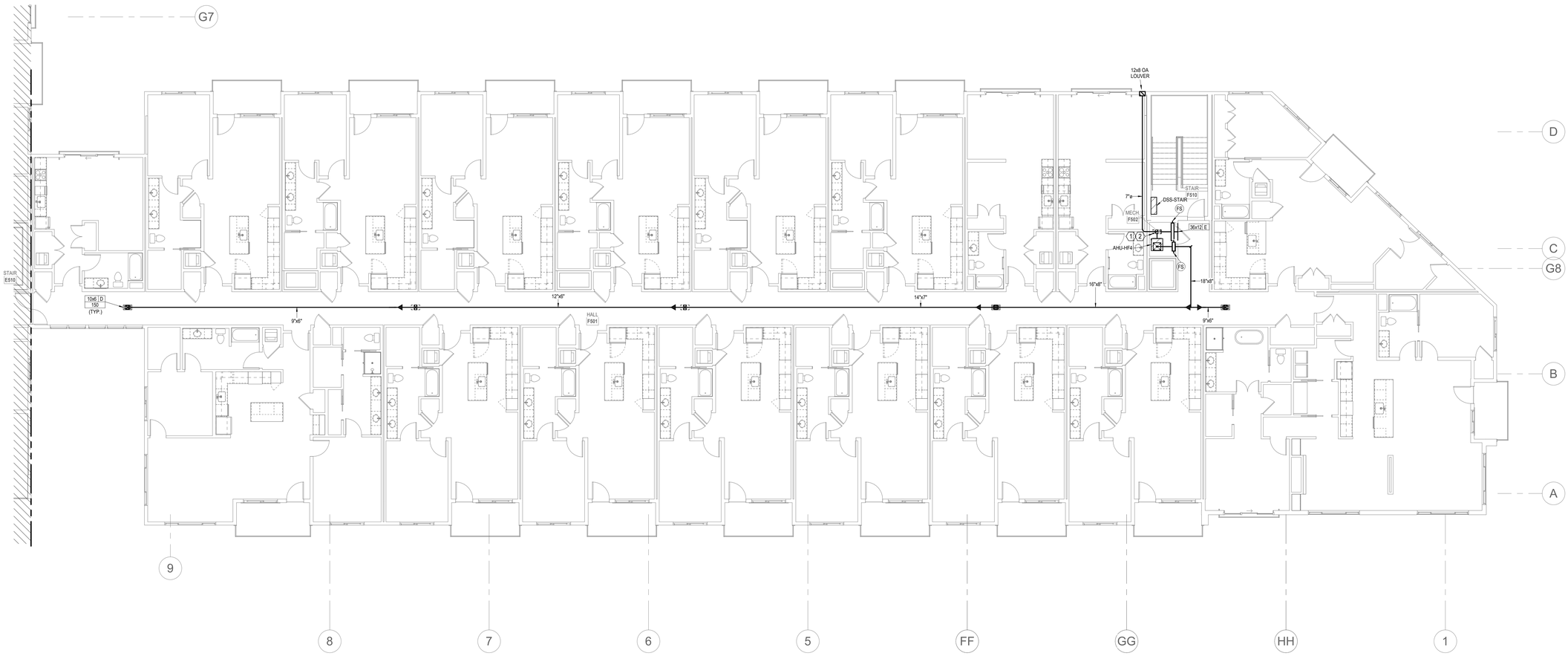
(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 BUILDING F FIFTH FLOOR PLAN

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAMONTE
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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CONSULTING ENGINEERS
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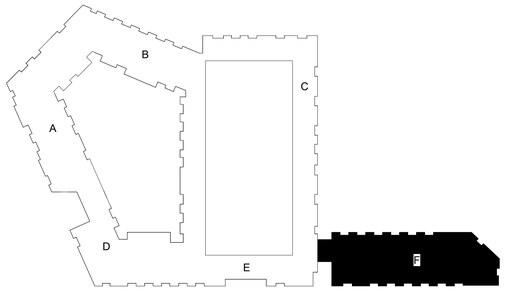
Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FIFTH FLOOR PLAN - HVAC

SHEET NUMBER

M1.65F



NOTES:

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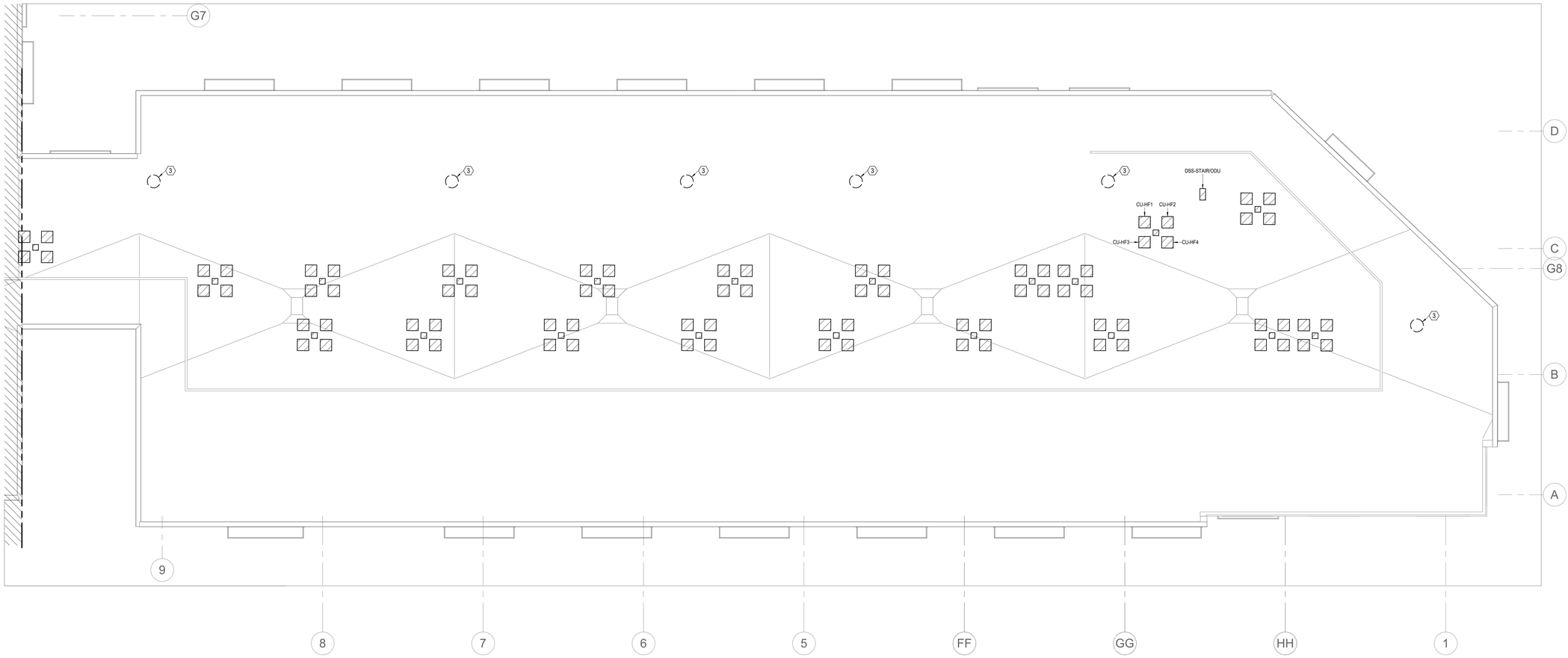
(2) PROVIDE CEILING RADIAITION DAMPER AT RATED MEMBRANE CEILING.

(3) BROAN #350BR WITH BUILT-IN THERMOSTAT.



NORTH

1 ROOF PLAN F

HVAC

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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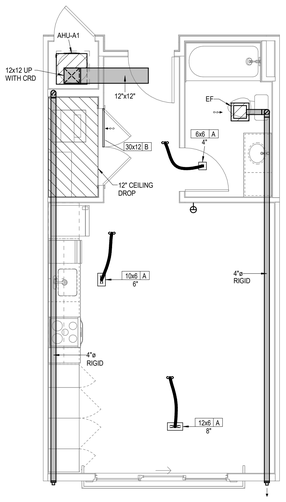
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

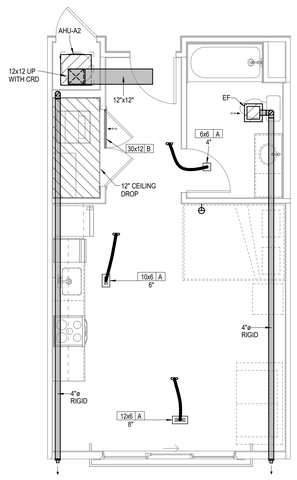
ROOF PLAN F - HVAC

SHEET NUMBER

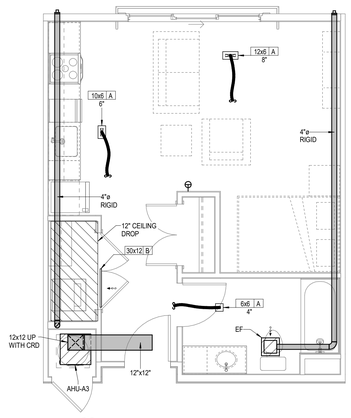
M1.66F



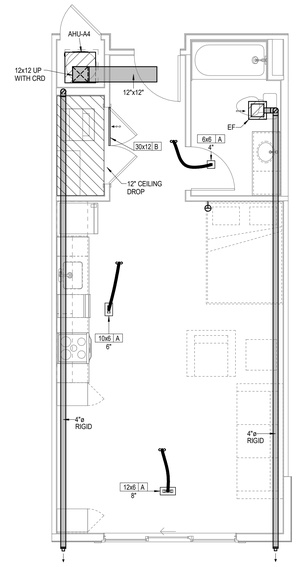
1 TYPICAL UNIT A-1
HVAC
1/4" = 1'-0"



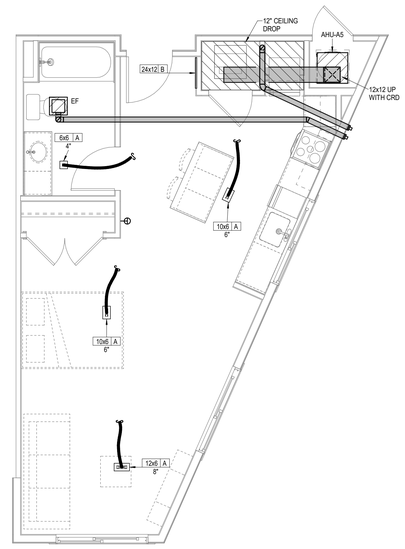
2 TYPICAL UNIT A-2
HVAC
1/4" = 1'-0"



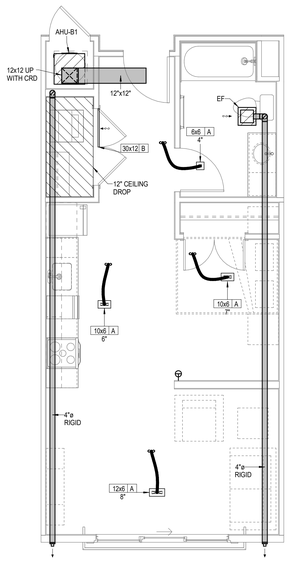
3 TYPICAL UNIT A-3
HVAC
1/4" = 1'-0"



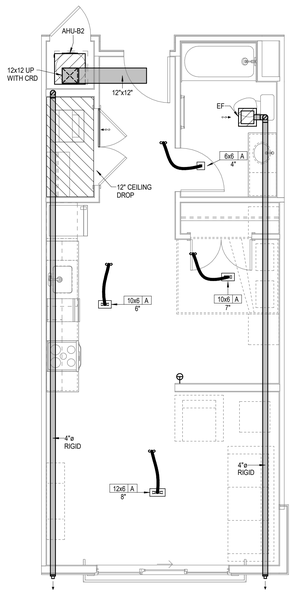
4 TYPICAL UNIT A-4
HVAC
1/4" = 1'-0"



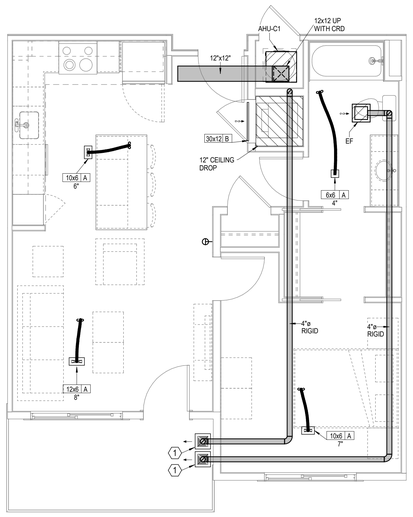
5 TYPICAL UNIT A-5
HVAC
1/4" = 1'-0"



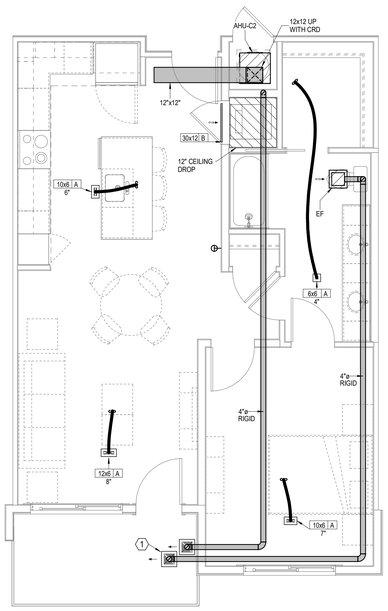
6 TYPICAL UNIT B-1
HVAC
1/4" = 1'-0"



7 TYPICAL UNIT B-2
HVAC
1/4" = 1'-0"



8 TYPICAL UNIT C-1
HVAC
1/4" = 1'-0"
C-1 S SIMILAR



9 TYPICAL UNIT C-2
HVAC
1/4" = 1'-0"
C-2 S & C-10 SIMILAR

LEGEND:

(1) BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED 0THERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
3. ALL CONDENSNG UNTS ARE ROOF MOUNTED. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SETS.
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PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2010014346
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

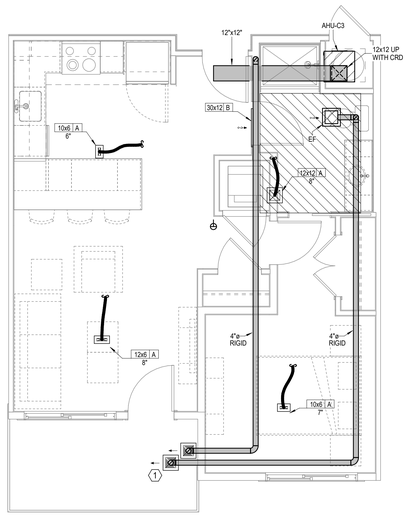
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

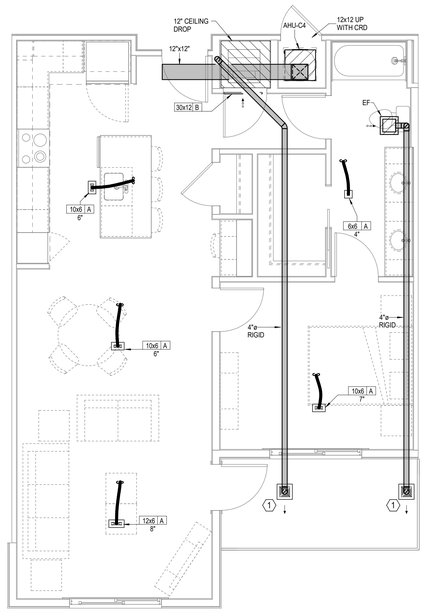
TYPICAL UNIT PLANS - HVAC

SHEET NUMBER

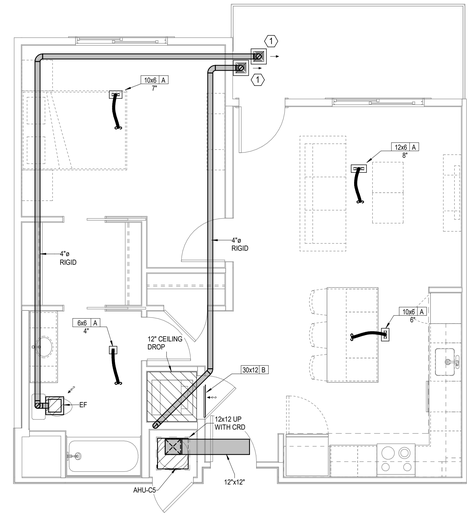
M2.01



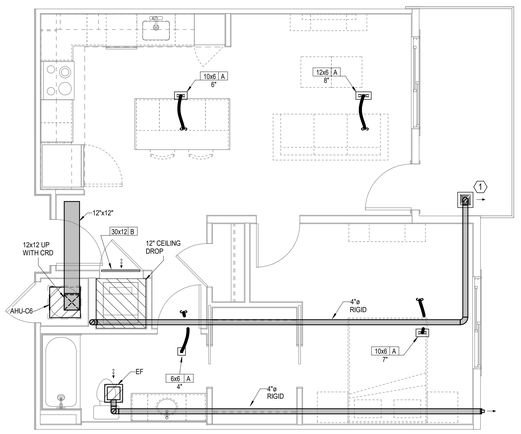
1 TYPICAL UNIT C-3
HVAC
1/4" = 1'-0"



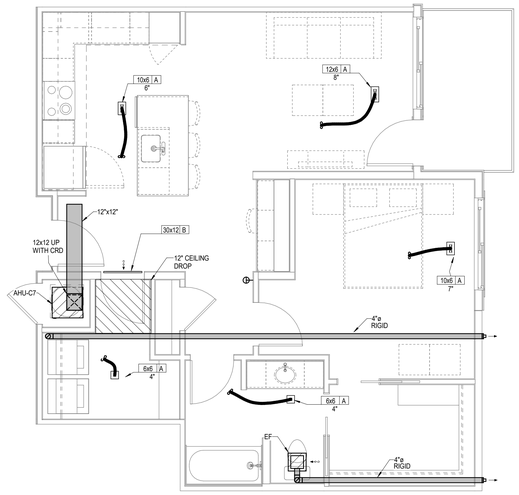
2 TYPICAL UNIT C-4
HVAC
1/4" = 1'-0"



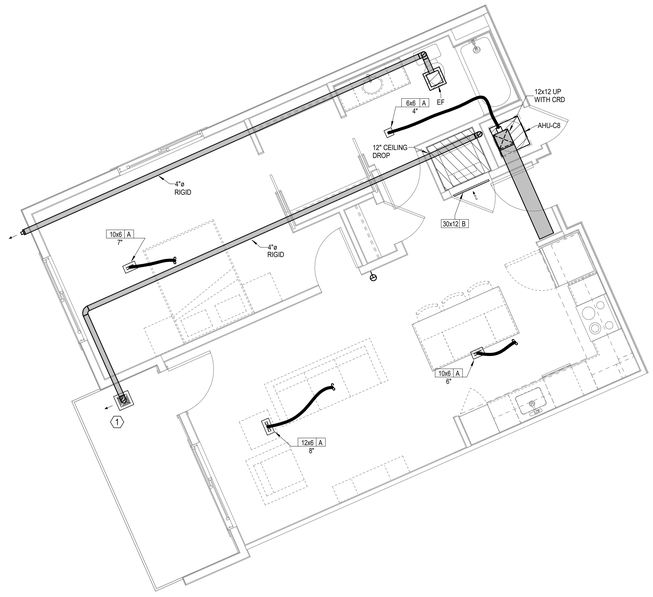
3 TYPICAL UNIT C-5
HVAC
1/4" = 1'-0"



4 TYPICAL UNIT C-6
HVAC
1/4" = 1'-0"



5 TYPICAL UNIT C-7
HVAC
1/4" = 1'-0"



6 TYPICAL UNIT C-8
HVAC
1/4" = 1'-0"

LEGEND:

1 BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

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LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.22
Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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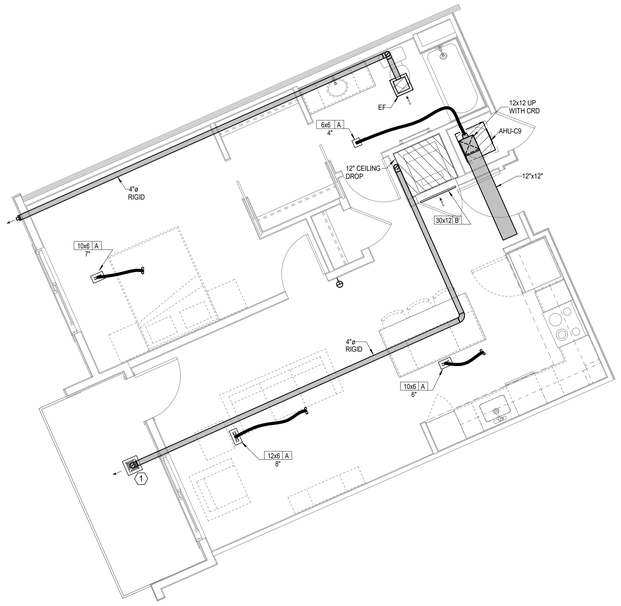
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 103
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

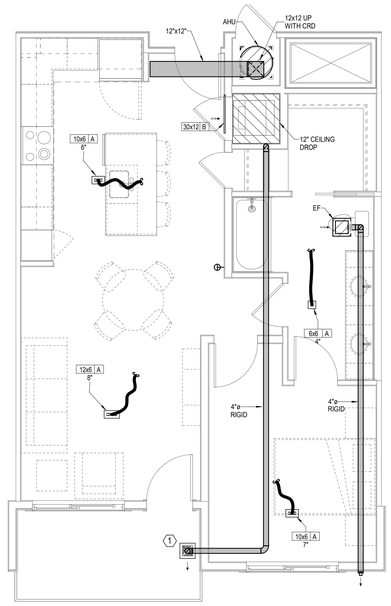
TYPICAL UNIT PLANS - HVAC

SHEET NUMBER

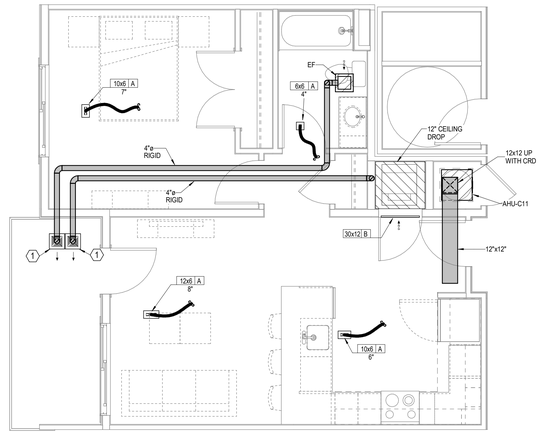
M2.02



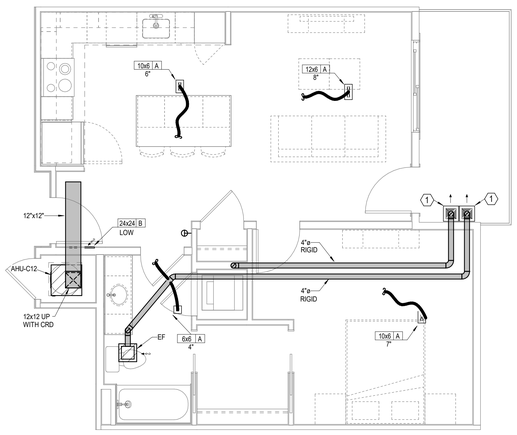
1 TYPICAL UNIT C-9
HVAC
1/4" = 1'-0"



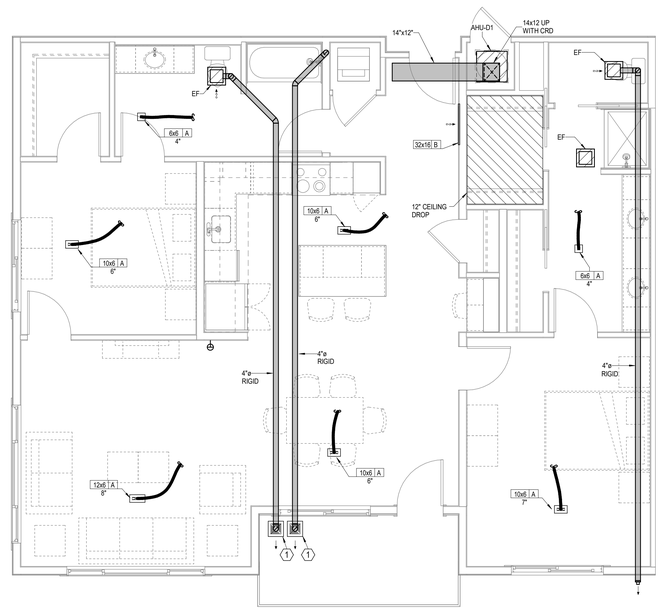
2 TYPICAL UNIT C-10
HVAC
1/4" = 1'-0"



3 TYPICAL UNIT C-11
HVAC
1/4" = 1'-0"



5 TYPICAL UNIT C-12
HVAC
1/4" = 1'-0"



6 TYPICAL UNIT D-1
HVAC
1/4" = 1'-0"

LEGEND:

1	BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

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PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010037
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Latimer Sommers & Associates P.A.
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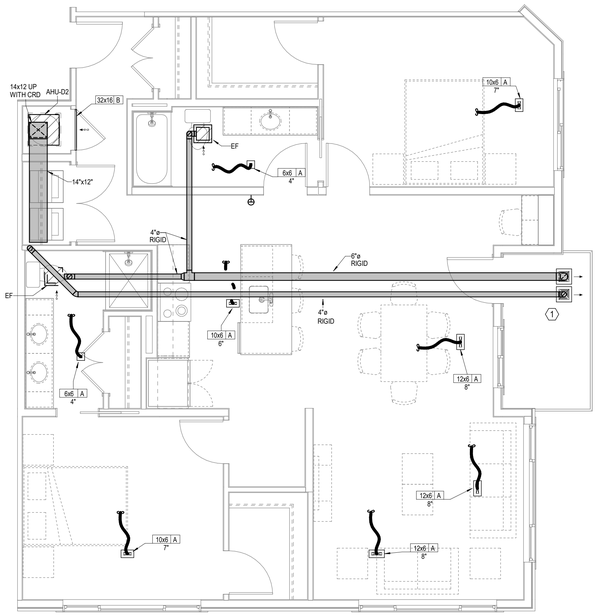
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNIT PLANS - HVAC

SHEET NUMBER

M2.03

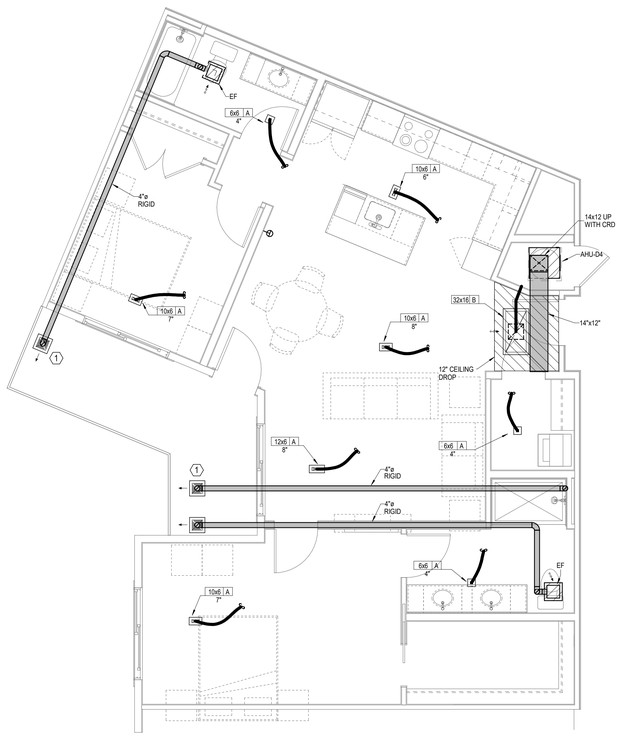


1 TYPICAL UNIT D-2

HVAC
1/4" = 1'-0"

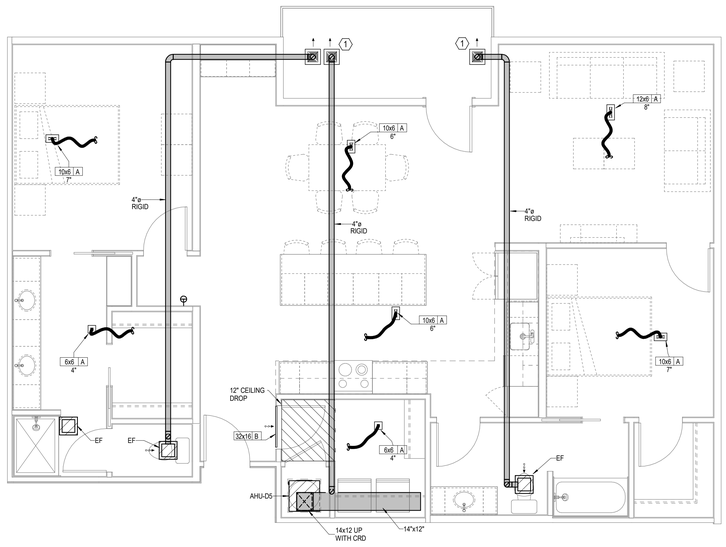
2 TYPICAL UNIT D-3

HVAC
1/4" = 1'-0"



3 TYPICAL UNIT D-4

HVAC
1/4" = 1'-0"



4 TYPICAL UNIT D-5

HVAC
1/4" = 1'-0"

LEGEND:
(1) BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

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LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2010020778
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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CONSULTING ENGINEERS
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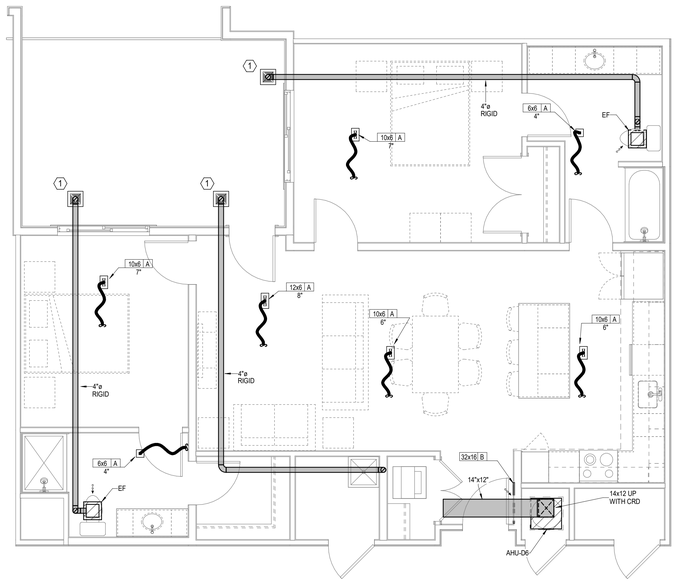
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

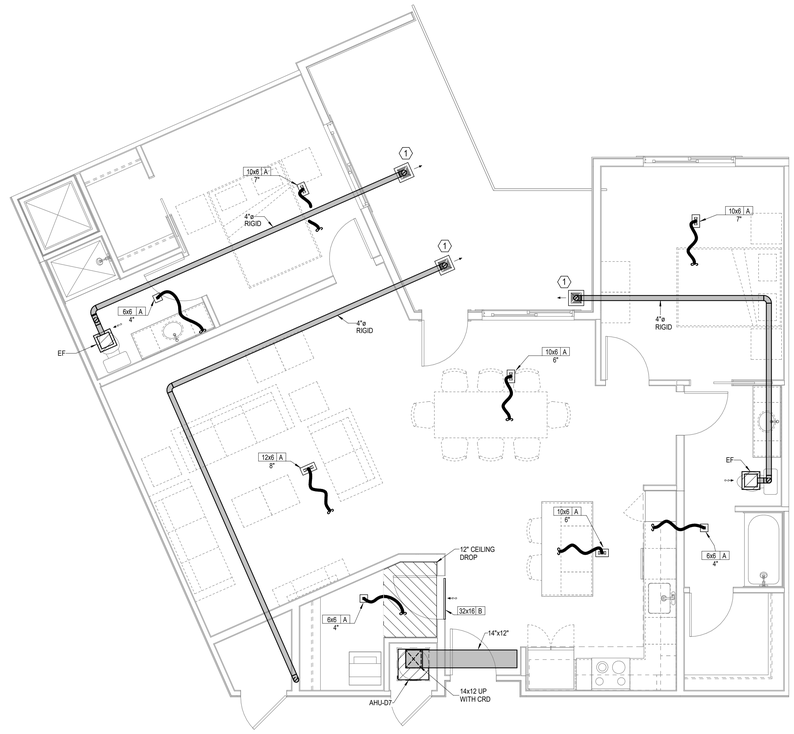
TYPICAL UNIT PLANS - HVAC

SHEET NUMBER

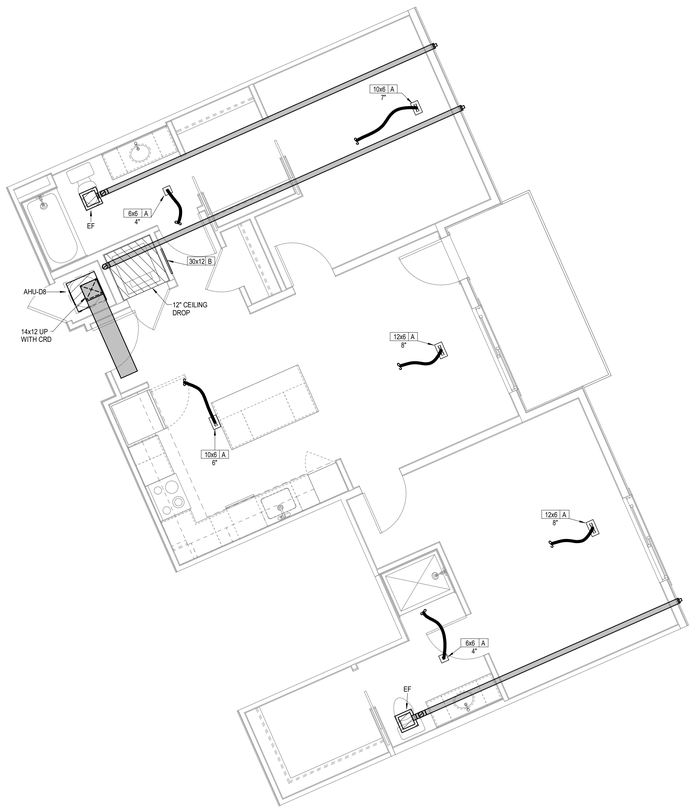
M2.04



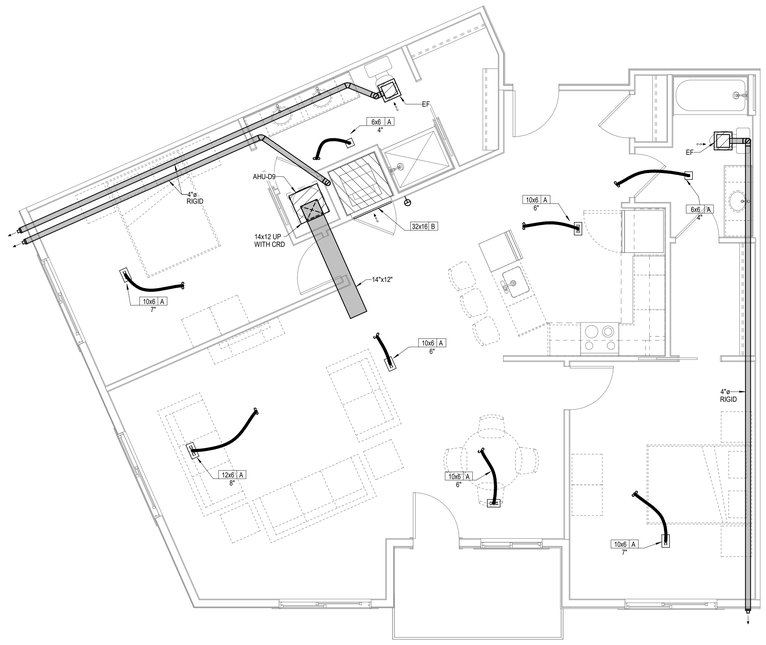
1 TYPICAL UNIT D-6
HVAC
1/4" = 1'-0"



2 TYPICAL UNIT D-7
HVAC
1/4" = 1'-0"



3 TYPICAL UNIT D-8
HVAC
1/4" = 1'-0"



4 TYPICAL UNIT D-9
HVAC
1/4" = 1'-0"

LEGEND:
(1) BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

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REVISIONS

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3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2003018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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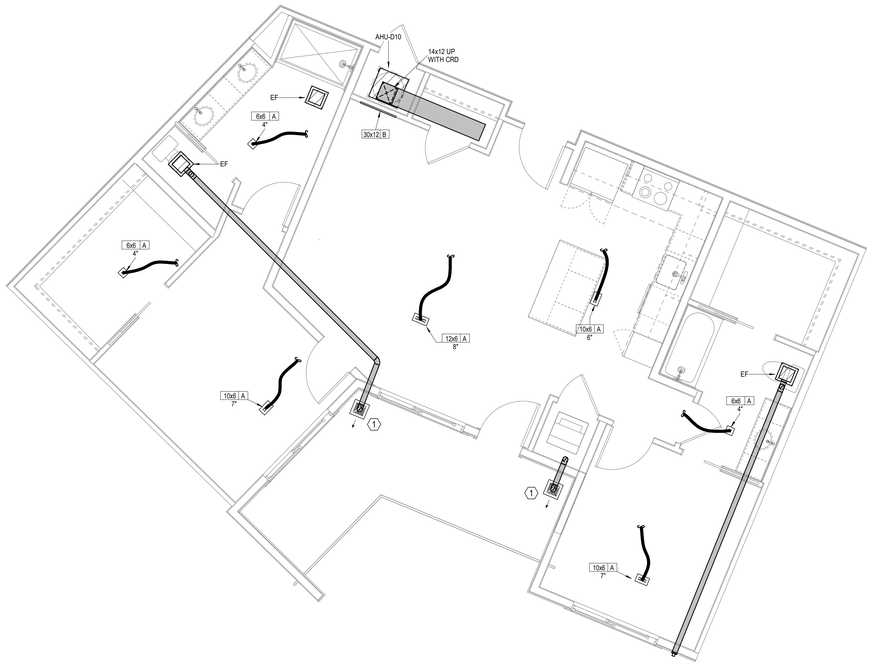
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

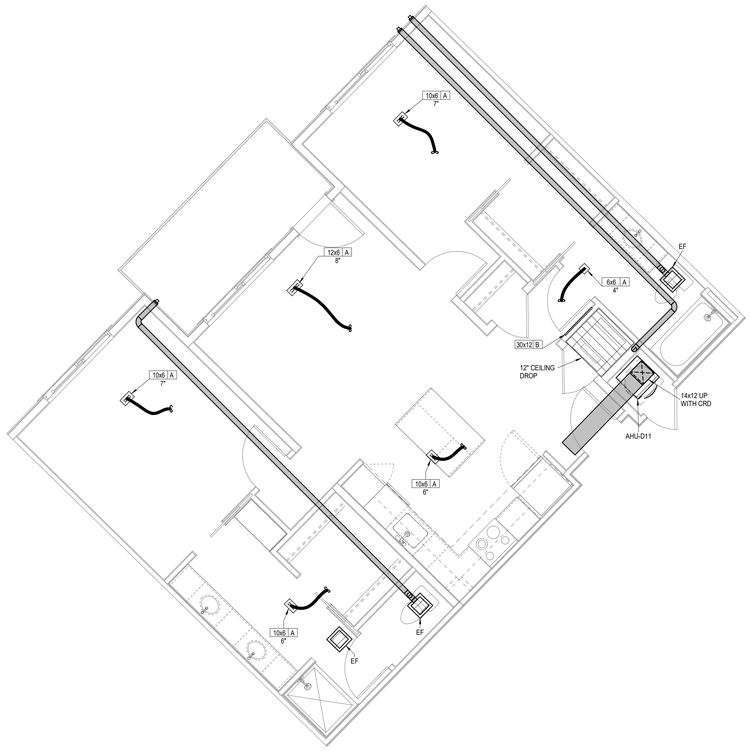
TYPICAL UNIT PLANS - HVAC

SHEET NUMBER

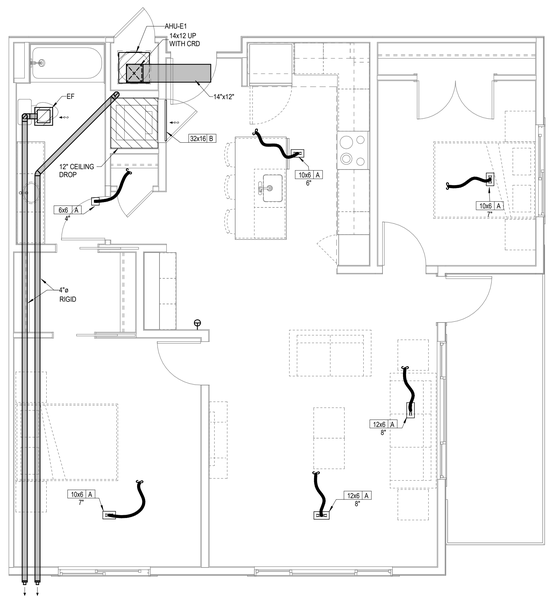
M2.05



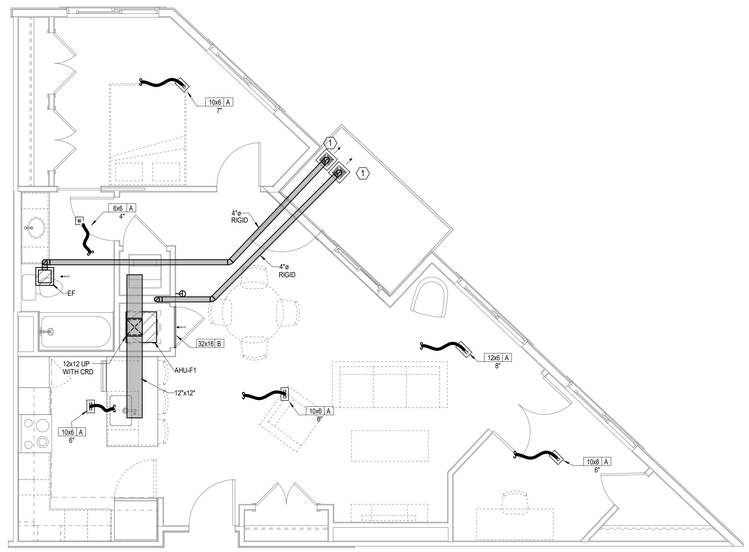
1 TYPICAL UNIT D-10
HVAC
1/4" = 1'-0"



2 TYPICAL UNIT D-11
HVAC
1/4" = 1'-0"



3 TYPICAL UNIT E-1
HVAC
1/4" = 1'-0"



4 TYPICAL UNIT F-1
HVAC
1/4" = 1'-0"

LEGEND:
(1) BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED 0THERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
3. ALL CONDENSNG UNTS ARE ROOF MOUNTED. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SETS.
4. PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
5. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
6. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
7. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
8. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
9. EXHAUST AND DRYER DUCTS ARE 4" RIGID.
10. USE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010037744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
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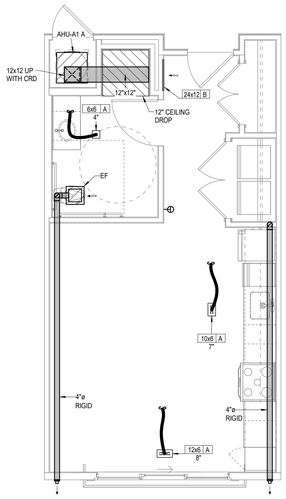
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3222
Email: lsapa@lsapa.com
LSA PROJECT NO. 210403

SHEET TITLE

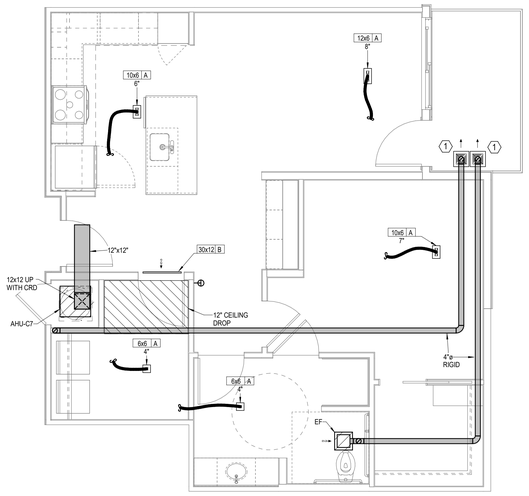
TYPICAL UNIT PLANS - HVAC

SHEET NUMBER

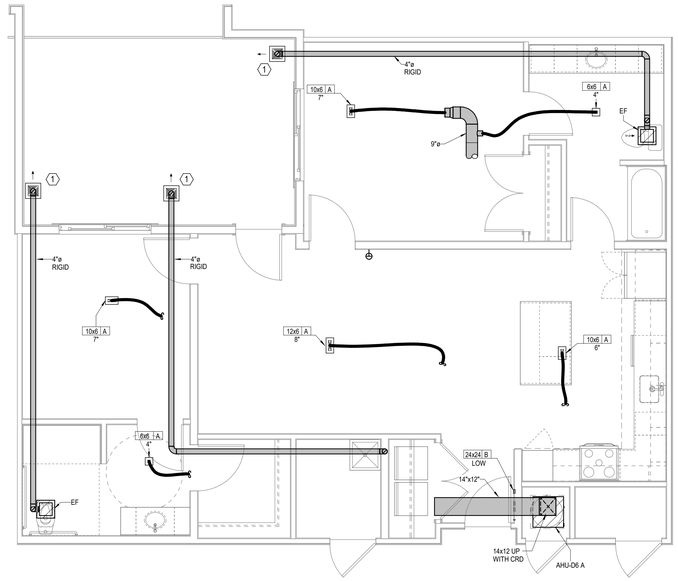
M2.06



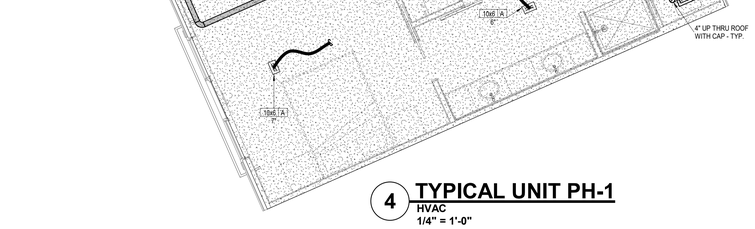
1 TYPICAL UNIT A-1 TYPE A
HVAC
1/4" = 1'-0"



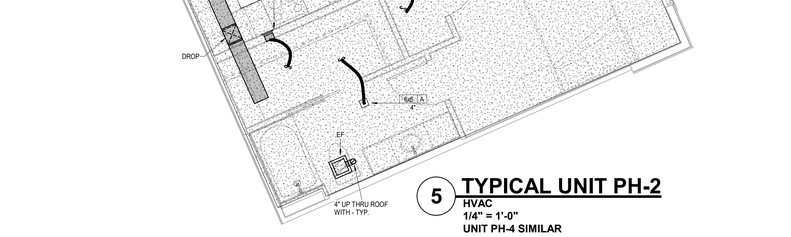
2 TYPICAL UNIT C-7 TYPE A
HVAC
1/4" = 1'-0"



3 TYPICAL UNIT D-6 TYPE A
HVAC
1/4" = 1'-0"



4 TYPICAL UNIT PH-1
HVAC
1/4" = 1'-0"



5 TYPICAL UNIT PH-2
HVAC
1/4" = 1'-0"
UNIT PH-4 SIMILAR

LEGEND:	
1	BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
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9. EXHAUST AND DRYER DUCTS ARE 4" RIGID.
10. USE RA GRILLE AT HVAC CLOSET AS CRD ACCESS, POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Telephone: (785) 233-3232
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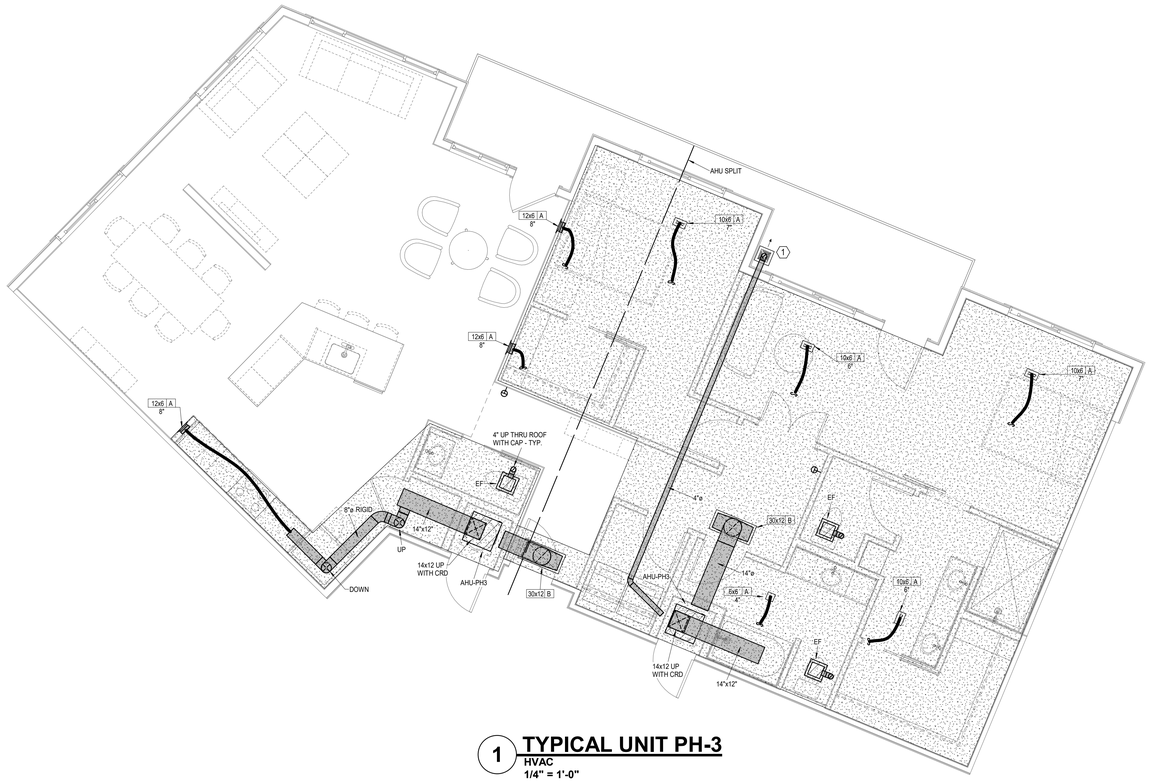
LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNIT PLANS - HVAC

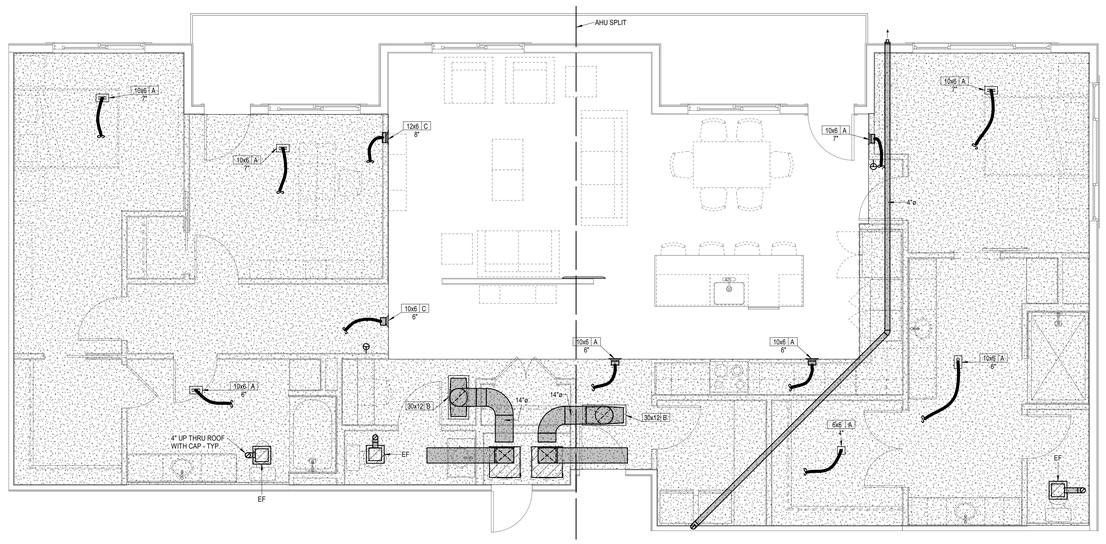
SHEET NUMBER

M2.07



1 TYPICAL UNIT PH-3

HVAC
1/4" = 1'-0"



2 TYPICAL UNIT PH-5

HVAC
1/4" = 1'-0"

LEGEND:

1	BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED 0THERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
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PARAGON STAR NORTH VILLAGE

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Project No.:	18017,19050.07,19050.08
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Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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3639 SW Summerfield Drive, Suite A
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9625 College Boulevard, Suite 103
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

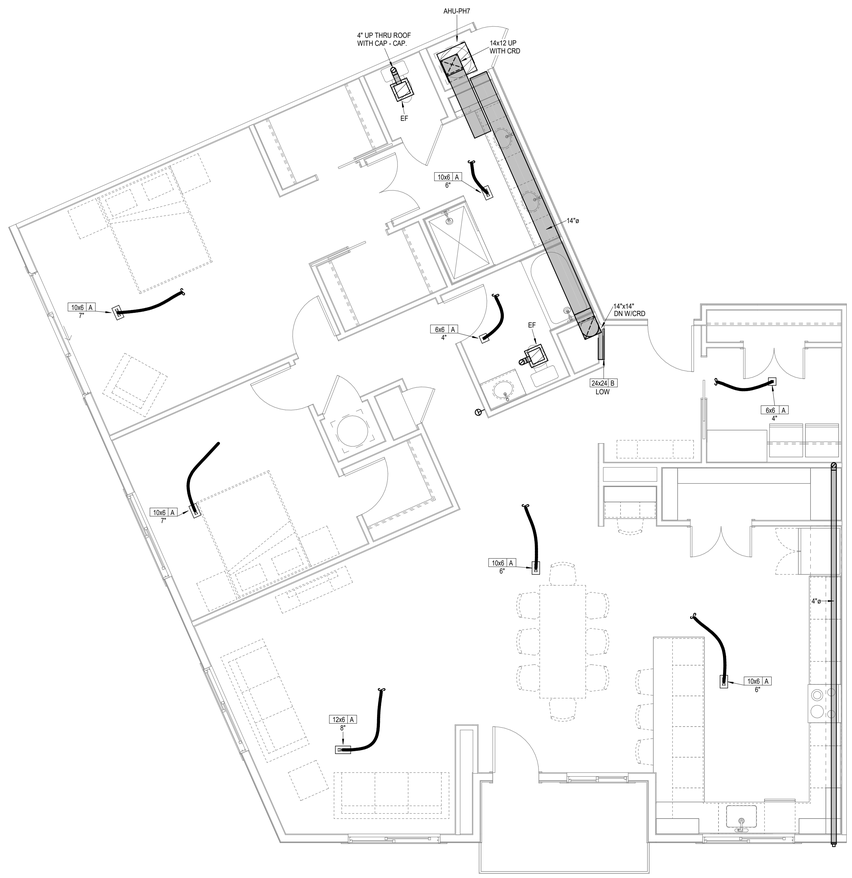
SHEET TITLE

TYPICAL UNITS PLANS - HVAC

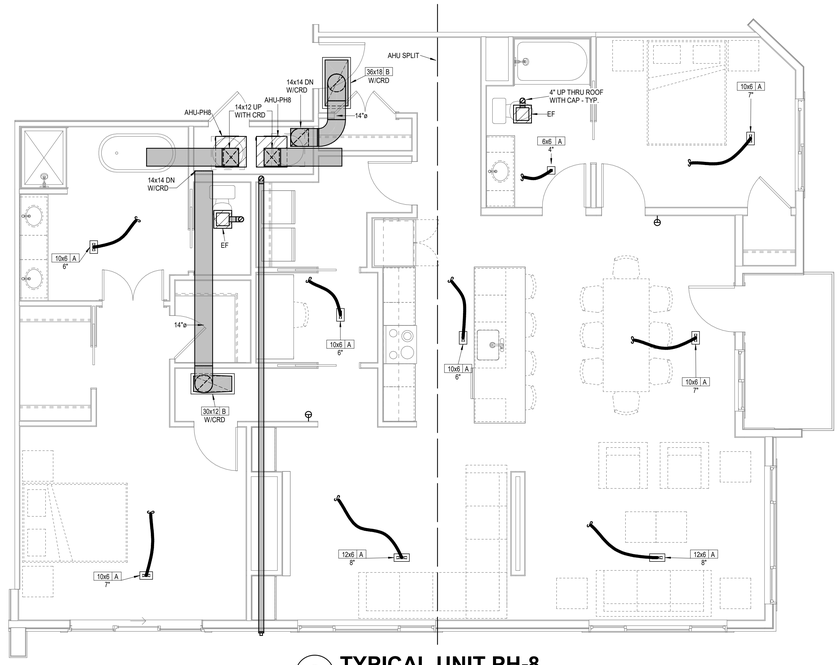
SHEET NUMBER

M2.08

1 TYPICAL UNIT PH-6
HVAC
1/4" = 1'-0"



2 TYPICAL UNIT PH-7
HVAC
1/4" = 1'-0"



3 TYPICAL UNIT PH-8
HVAC
1/4" = 1'-0"

LEGEND:

1	BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

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PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
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9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

TYPICAL UNITS PLANS - HVAC

SHEET NUMBER

M2.09

LEGEND:

(1)	BALCONY CEILING VENT - MOUNT >3 FT FROM DOORS AND WINDOWS MINIMUM

NOTES:

1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED 0THERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
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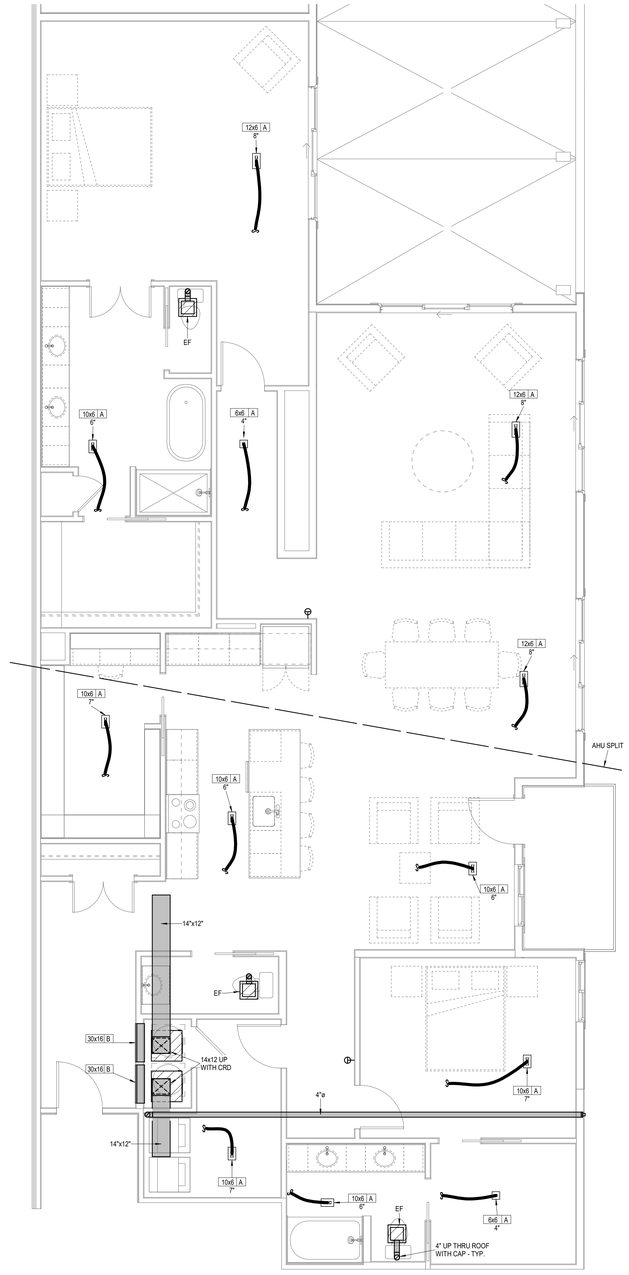

1 TYPICAL UNIT PH-9

HVAC

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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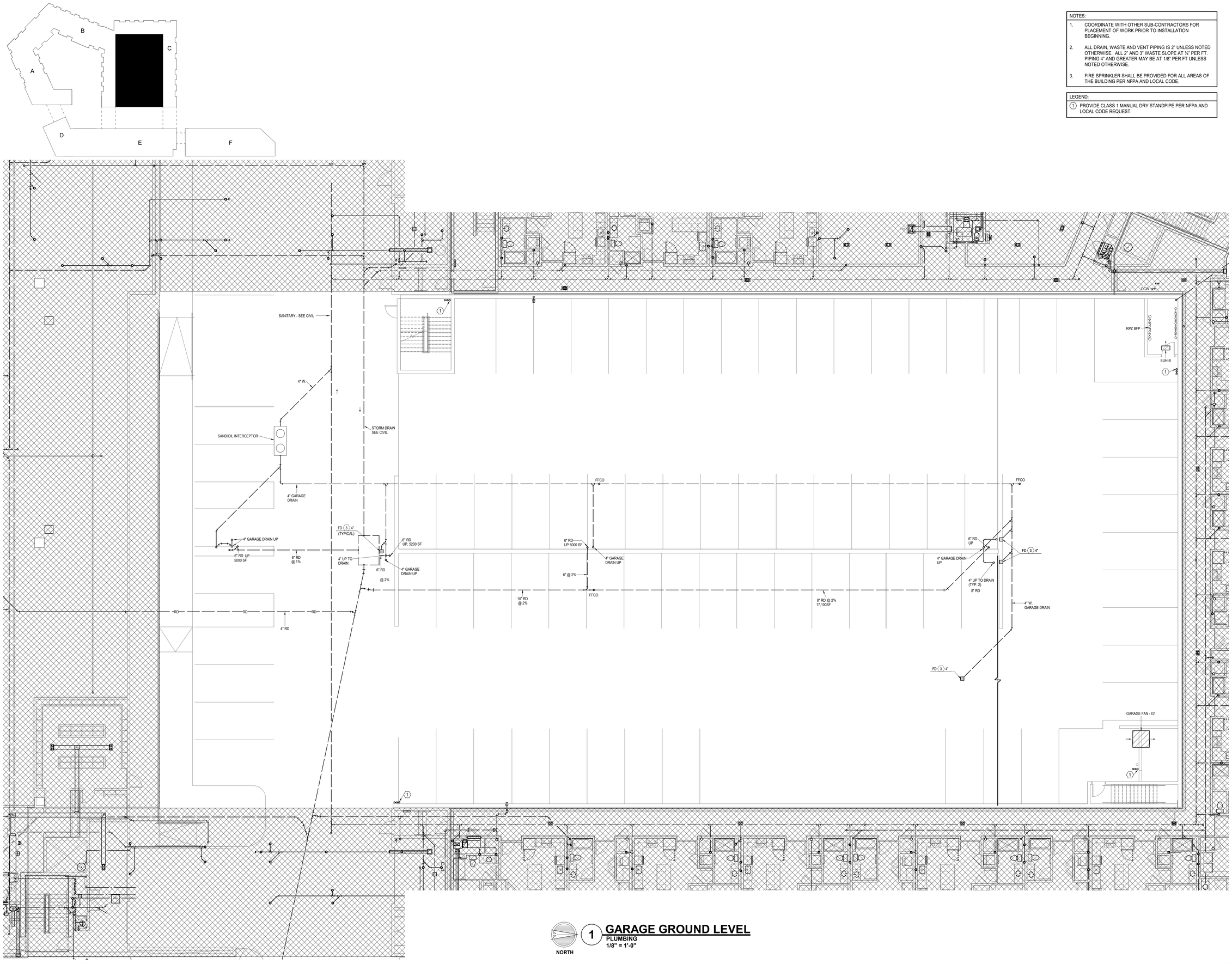
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNITS PLANS - HVAC

SHEET NUMBER

M2.10



NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

LEGEND:

(1) PROVIDE CLASS 1 MANUAL DRY STANDPIPE PER NFPA AND LOCAL CODE REQUEST.

1 GARAGE GROUND LEVEL
PLUMBING
1/8" = 1'-0"

NORTH

7/25/2022 12:13:59 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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9625 College Boulevard, Suite 102
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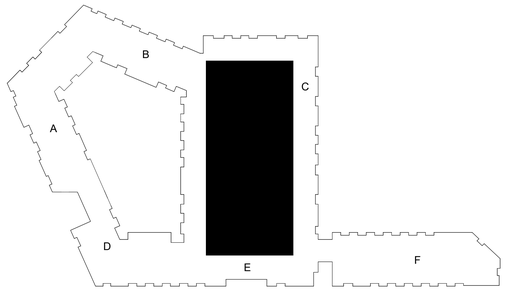
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

GARAGE FIRST FLOOR - PLUMBING

SHEET NUMBER

MP1.71G



NOTES:

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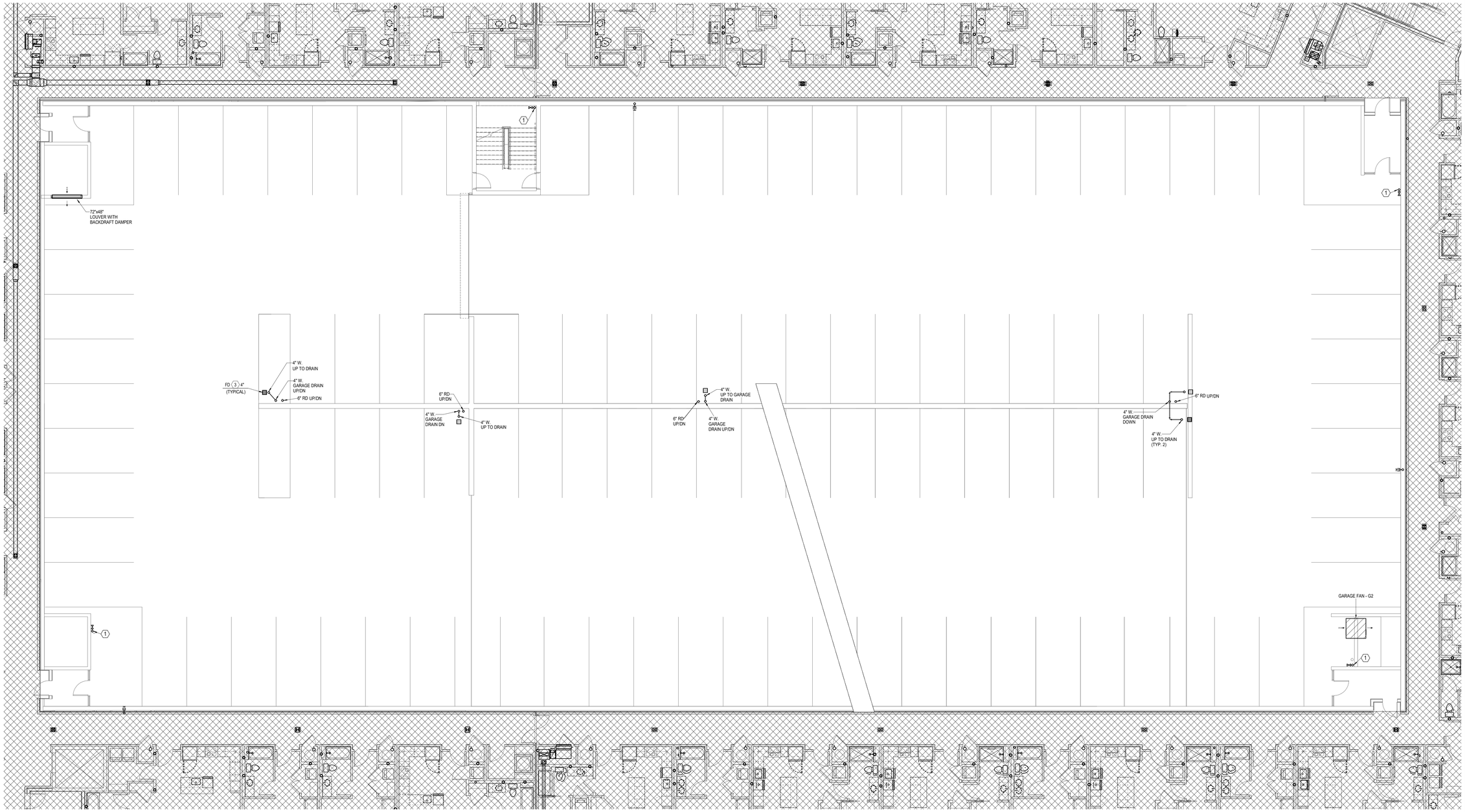
LEGEND:

(1) PROVIDE CLASS 1 MANUAL DRY STANDPIPE PER NFPA AND LOCAL CODE REQUEST.



NORTH

1 **GARAGE 2**
PLUMBING
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018102
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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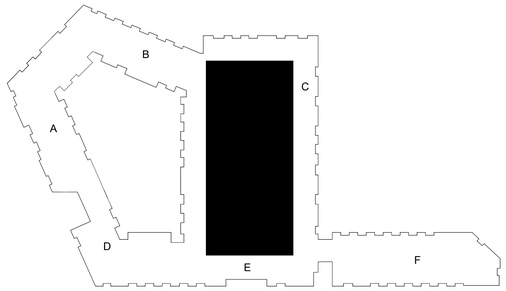
LSA PROJECT NO. 2104043

SHEET TITLE

GARAGE SECOND FLOOR - PLUMBING

SHEET NUMBER

MP1.72G

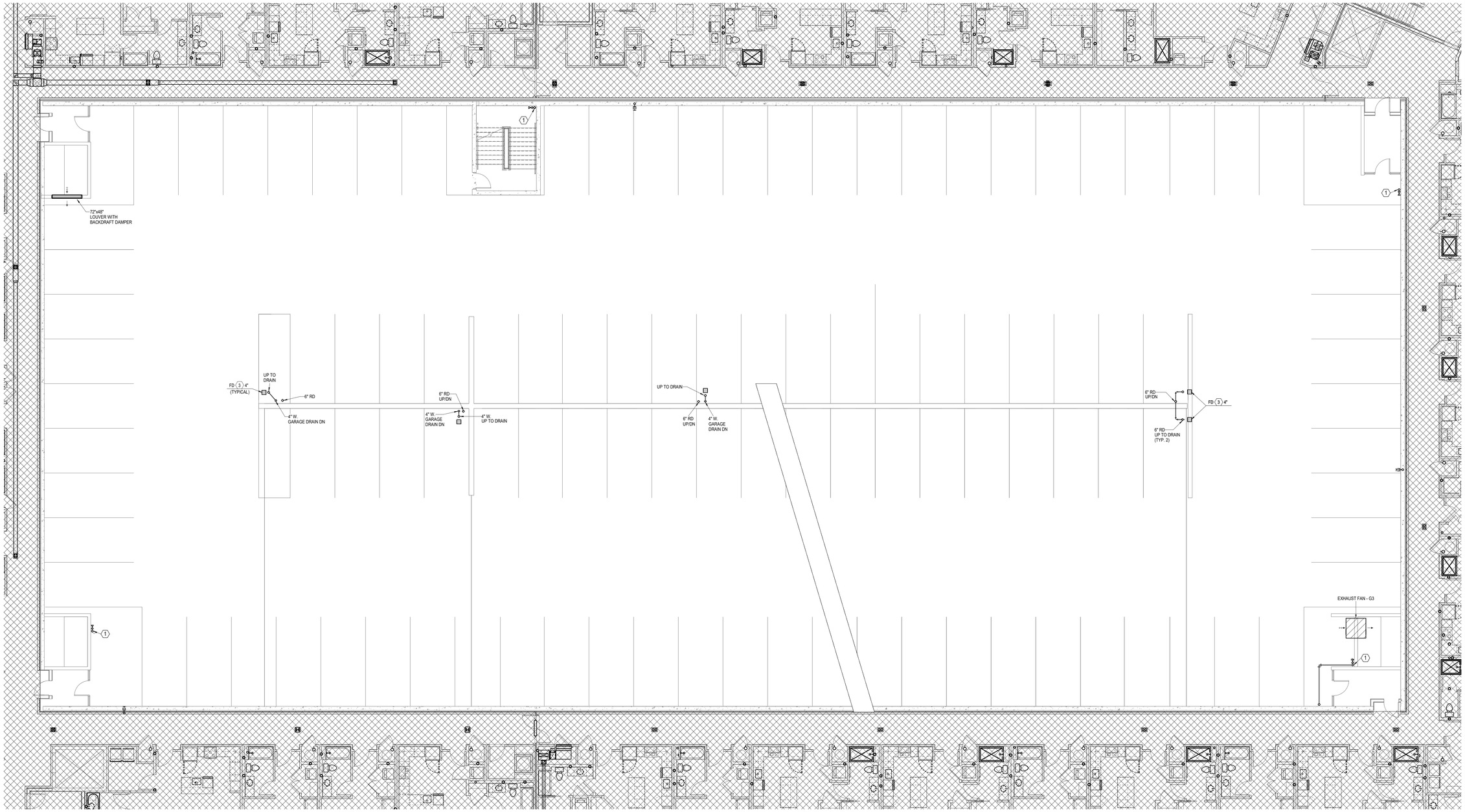


NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

LEGEND:

(1) PROVIDE CLASS 1 MANUAL DRY STANDPIPE PER NFPA AND LOCAL CODE REQUEST.



NORTH

1 GARAGE 3

PLUMBING

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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3639 SW Summerfield Drive, Suite A
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Overland Park, Kansas 66210
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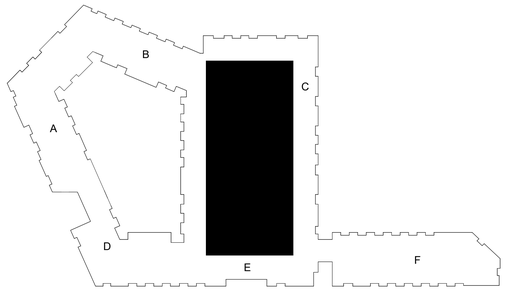
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

GARAGE THIRD FLOOR - PLUMBING

SHEET NUMBER

MP1.73G



NOTES:

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3. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

LEGEND:

(1) PROVIDE CLASS 1 MANUAL DRY STANDPIPE PER NFPA AND LOCAL CODE REQUEST.

72"x48" LOUVER WITH BACKDRAFT DAMPER

6" RD UP TO DRAIN
6" RD
FD (3) 4"
6" RD DN
6" RD UP TO RD
FD (3) 4"
FD (3) 4"
6" RD UP TO DRAIN
6" RD DN
6" RD DN
FD (3) 6" 7600 SF
UP TO DRAIN (TYP. 2)
EDGE OF SLAB

NORTH

1 **GARAGE 4**
PLUMBING
1/8" = 1'-0"

7/25/2022 12:14:13 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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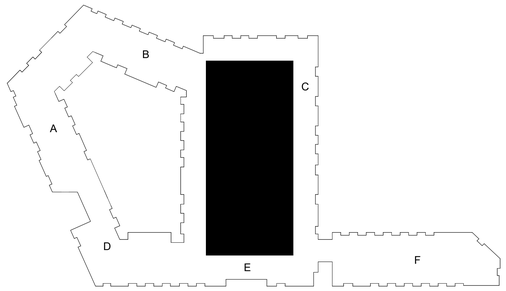
LSA PROJECT NO. 2104043

SHEET TITLE

GARAGE
FOURTH FLOOR
- PLUMBING

SHEET NUMBER

MP1.74G



NOTES:

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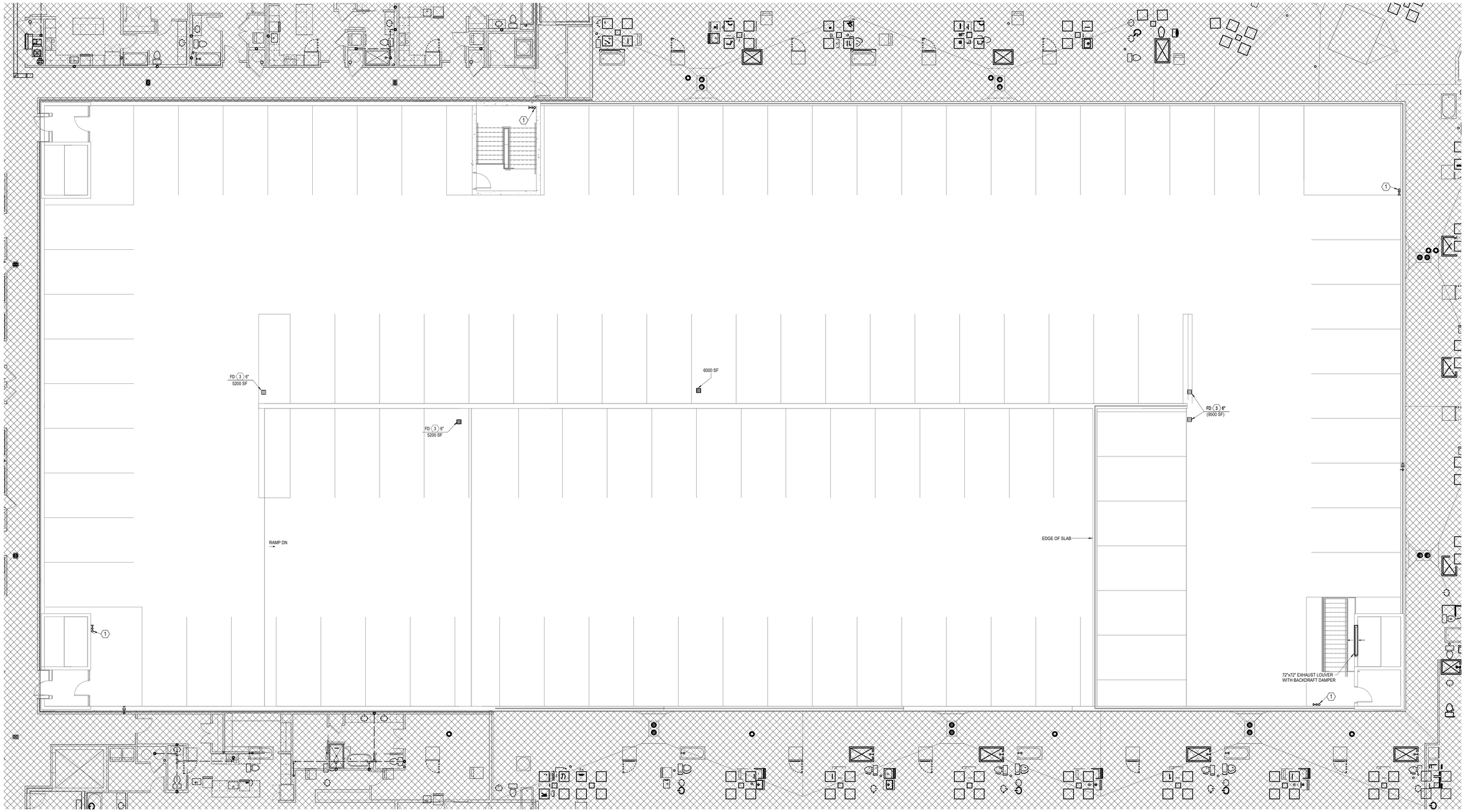
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT ¼" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE.

LEGEND:

(1) PROVIDE CLASS 1 MANUAL DRY STANDPIPE PER NFPA AND LOCAL CODE REQUEST.



1 **GARAGE 5**
PLUMBING
1/8" = 1'-0"

7/25/2022 12:14:20 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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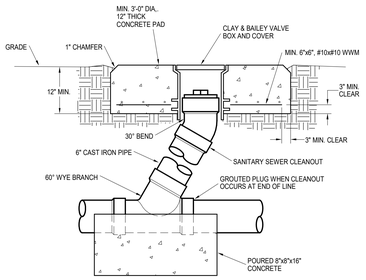
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

GARAGE FIFTH FLOOR - PLUMBING

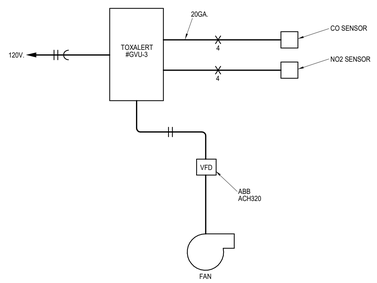
SHEET NUMBER

MP1.75G



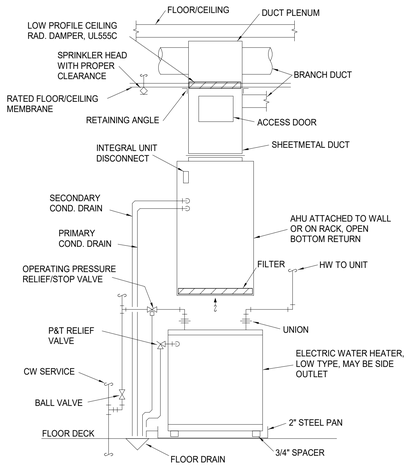
1 FLUSH GRADE CLEANOUT DETAIL
NOT TO SCALE

SEQUENCE OF OPERATION - EF OPERATES AT MINIMUM SPEED FOR 2000 CFM CONTINUOUS OPERATION.CO AND NO2 SENSORS IN GARAGE WILL BRING FAN TO FULL SPEED UNTIL SETPOINT MET.



EQUIPMENT (VFD INCLUDED) BY M/C, WIRING BY E/C.
SEE DRAWING FOR QUANTITY.

2 PARKING GARAGE FAN CONTROL DETAIL
NOT TO SCALE



3 APARTMENT AHU/WATER HEATER
NOT TO SCALE

SPECIFICATIONS
1. 4" inlet/outlet Sch. 40. Plain End (No-Hub)
2. Max flow rate: 75 GPM
3. Liquid capacity: 125 gallons (16.7 cu. ft.)
4. Max oil capacity: 84.4 gallons
5. Sand capacity: 19.2 gallons
6. Unit weight w/std. covers: 130 lbs.
7. Highway rated (16,000 lb. load) or pedestrian rated (2,000 lb. load) bolted, gas/water tight composite cover (choose one).
8. Maximum operating temperature 190 ° F continuous.
9. Seamless molded polyethylene tank.

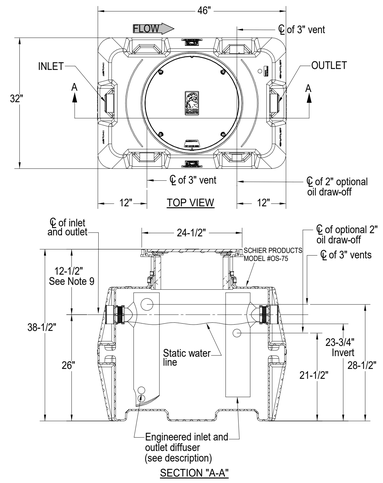
NOTES
1. Factory installed Built-in Flow control.
2. For gravity drainage applications only. Do not use for pressure applications.
3. Seamless high density polyethylene tank.
4. Unit supplied with built-in adapter for up to 6" of adjustability. Additional riser available for deeper burial depth.
5. Cover placement allows full access to tank for proper maintenance.
6. Narrow footprint allows clearance through doorways and down stairwells.
7. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
8. For on the-floor or buried applications.
9. Trimming of adaptor required between 12-1/2" to 16" , not required for 16" to 18-1/2".

DIFFUSION FLOW TECHNOLOGY
The inlet diffuser splits incoming effluent into two paths that utilize the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce effluent turbulence. The effluent enters the main chamber without disturbing the existing oil or sediment layers.

The bottom of the outlet diffuser allows only effluent which is free of oil to exit the tank.

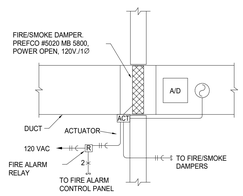
ENGINEER SPECIFICATION GUIDE
Schier Oil Reserve - oil/sand separator model# OS-75 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded High Density Polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, built-in flow control, vent connections and optional oil draw-off for connection to independent collection tank. Separator flow rate shall be 75 GPM. Separator capacity shall be 84.4 gallons of oil and 19.2 gallons of sediment. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs load capacity.

OPTIONS:
- Highway Rated Cover: 16,000 lb. capacity
- Pedestrian Rated Cover: 2,000 lb. capacity
- Teleglide field adjustable risers for extending covers to grade
- Male pipe thread connections
- 6" Plain end pipe connections (Inlet/Outlet only)
- High water Anchor Kit
- 2" Plain end oil draw-off connection
- Clean Sweep coalescing media
- Clamping Collar Kit

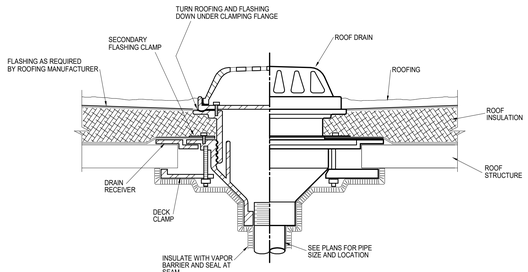


SECTION "A-A"

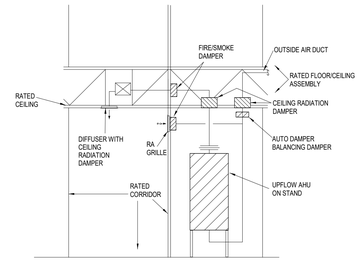
4 SAND/OIL SEPERATOR DETAIL
NOT TO SCALE



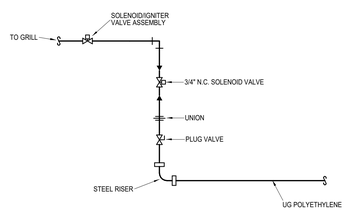
5 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



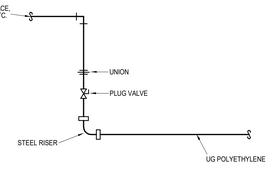
6 ROOF DRAIN DETAIL
NOT TO SCALE



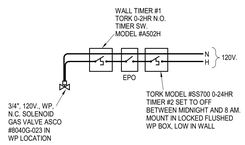
7 CORRIDOR AHU DETAIL
NO SCALE



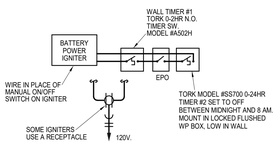
PIPING SCHEMATIC



PIPING SCHEMATIC

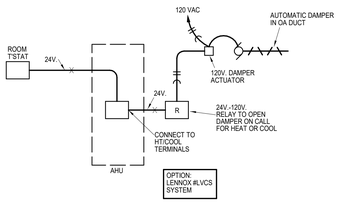


CONTROL SCHEMATIC
(GRILL)

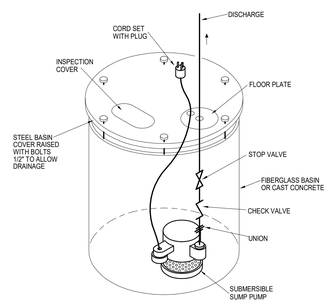


CONTROL SCHEMATIC
(FIRE PIT)

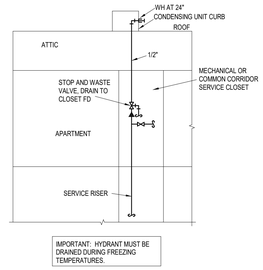
11 GAS GRILL/FIRE PIT DETAIL
NOT TO SCALE



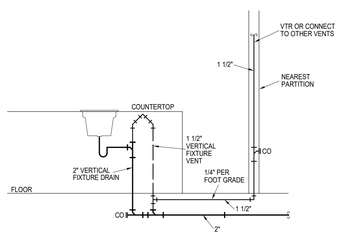
8 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NOT TO SCALE



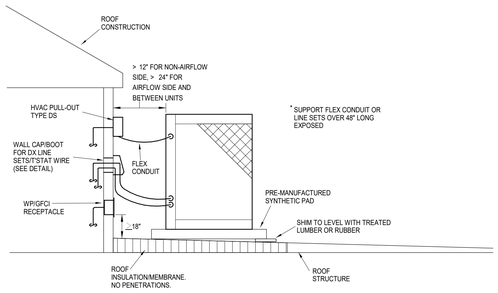
9 ELEVATOR SUMP PUMP DETAIL
NOT TO SCALE



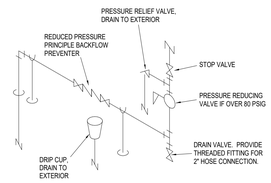
10 ROOF HYDRANT
NOT TO SCALE



12 ISLAND VENT DETAIL
NOT TO SCALE

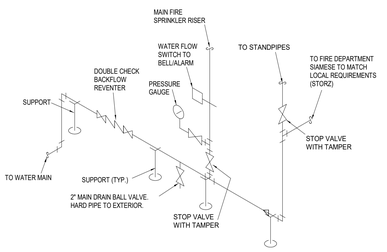


13 ROOF MOUNTED CONDENSING UNIT DETAIL
NOT TO SCALE



14 DOMESTIC WATER RISER
NO SCALE

NOTES:
1. DRAWING IS SCHEMATIC ONLY. INSTALLATION SHALL CONFORM TO NFPA AND ALL APPLICABLE LOCAL CODES.



15 FIRE SUPPRESSION ENTRANCE RISER
NO SCALE

LS&A
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LSA PROJECT NO. 2104043

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2004018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

SHEET TITLE

MECHANICAL
DETAILS/SCHEDULES

SHEET NUMBER

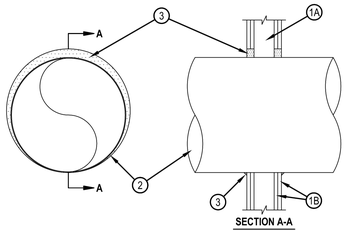
MP2.01

WL 7042

System No. W-L-7042

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Items 1 and 3)	F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 1 and 2 Hr (See Items 1 and 3)
	FTH Rating - 0 Hr



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. Studs — Wall 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 24 in. (610 mm) OC.
   B. Gypsum Board* — For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 21-3/4 in. (552 mm) for steel stud walls.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant — Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (0 mm, point contact) and max 1-1/2 in. (64 mm) Duct to be rigidly supported on both sides of wall assembly.
   A. Spiral Wound HVAC Duct — Nom 20 in. (502 mm) diam (or smaller) No. 24 MSG (or heavier) galv steel spiral wound duct.
   B. Sheet Metal Duct — Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.
3. Fill, Void or Cavity Material*—Sealant — Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. At the point contact location between duct and wallboard, a min 1/2 in. (13 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Elastomeric Firestop Sealant, FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

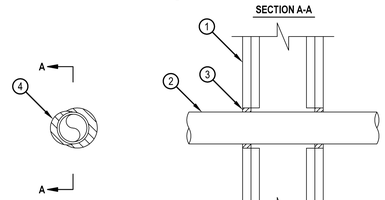
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

WL 2474

System No. W-L-2474

F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating at 400 F - 4 CFM/Sq Ft

Classified by Underwriters Laboratories, Inc. to UL 1479



1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL fire Resistance Directory and shall include the construction features noted below:
   A. Studs — Wall 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 max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Diam of opening shall be 1 in. (25 mm) larger than the nom pipe diam.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and the periphery of the opening shall be min 0 in. (point contact) to a max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) cellular or solid core Schedule 40 (or heavier) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Crosslinked Polyethylene (PEX) Tubing — Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
   D. Rigid Nonmetallic Conduit (RNC)+ — Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location, a min 5/8 in. (16 mm) diam bead of fill material shall be applied to the wall/penetrant interface on both surfaces of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
+ Bearing the UL Listing Mark

Hilti Firestop Systems

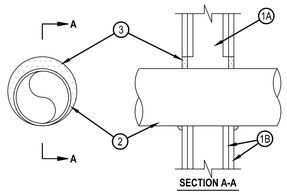
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 26, 2015

WL 1054

System No. W-L-1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft L Rating at 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall 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. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide 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 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015

WL 1054

System No. W-L-1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) , diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

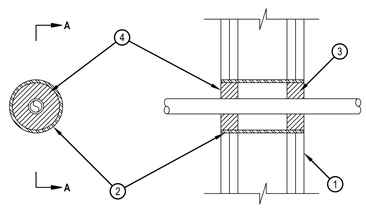
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015

WL 2186

System No. W-L-2186

F Ratings — 1 and 2 Hr (See Items 1 and 4)
T Ratings — 1/2 and 1 Hr (See Items 3 and 4)
L Rating at Ambient - Less Than 1 CFM/sq ft
L Rating at 400 F - 2 CFM/sq ft

Classified by Underwriters Laboratories, Inc. to UL 1479



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall 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 max 16 in. (406 mm) . Steel studs to be min 2-1/2 in. ,(64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick gypsum board as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick gypsum board as required in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm).
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Sleeve — (Optional) - Max 3 in. (76 mm) diam Schedule 40 (or heavier) steel pipe sleeve friction-fit into circular opening core drilled through wall. Length of steel sleeve to be equal to thickness of wall.
3. Through Penetrant — One nom 1 in. (25 mm) diam (or smaller) SDR 9 cross-linked polyethylene (PEX) tubing for use in closed (process or supply) piping systems. The tubing installed concentrically or eccentrically within the opening. The annular space between the tube and the steel sleeve or wall opening shall be min 1/2 in. (13 mm) to max 1-3/8 in. (35 mm). Tube to be rigidly supported on both sides of wall assembly. When steel sleeve (Item 2) is not provided, tube may be installed at an angle not greater than 45 degrees from perpendicular.
   The hourly T Rating is 1/2 Hr and 1 Hr for 1 Hr and 2 Hr fire rated wall assemblies, respectively.
4. Fill, Void or Cavity Material*-Sealant — Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 and 2 hr rated walls, respectively. When a steel sleeve (Item 2) is provided for assemblies with L Ratings, sealant shall be applied around periphery of opening to cover the exposed ends of the sleeve and to lap min 1/4 in. (6 mm) onto gypsum board on each side of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

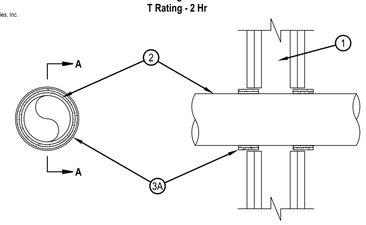
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 22, 2015

WL 2344

System No. W-L-2344

F Rating - 2 Hr
T Rating - 2 Hr

Classified by Underwriters Laboratories, Inc. to UL 1479



SECTION A-A

1. Wall Assembly -- The 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing shall consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* -- Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, and orientation shall be as specified in the individual U300 or U400 Wall and Partition Design. Max diam of opening is 5-1/2 in.
2. Through Penetrants -- One nonmetallic pipe to be centered within the firestop system. A nom annular space of 3/8 to1/2 in. is required within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Acrylonitrile Butadiene Styrene (ABS) Pipe -- Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Polyvinyl Chloride (PVC) Pipe -- Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   C. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- Nom 4 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
3. Firestop System -- The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* - Wrap Strip -- Two layers of nom 3/16 in. thick by 1-3/4 in. wide intumescent wrap strip individually wrapped around the outer circumference of the pipe and slid into the annular space such that wrap strip extends 3/4 in. beyond both surfaces of wall. Butted ends in successive layers shall be offset. Wrap strip secured with tape, wire or tie wire.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP648-E W45/1-3/4" Wrap Strip

*Bearing the UL Classification Mark

Hilti Firestop Systems

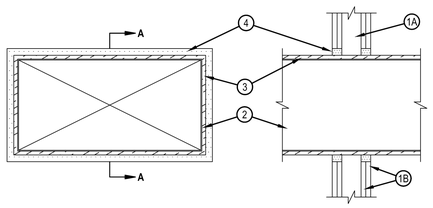
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2005

WL 7059

System No. W-L-7059

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 1/2 and 3/4 Hr (See Item 1)	FT Rating - 1/2 and 3/4 Hr(See Item 1)
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Rating - 1/2 and 3/4 Hr (See Item 1)



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of channel studs. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. The opening in the wall to accommodate the steel duct (Item 2) shall be framed on all sides using lengths of studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be a nom 6 in. (152 mm) wide and 12 in. (305 mm) higher than the width and height of the steel duct.
   B. Wallboard, Gypsum* — 5/8 in. (16 mm) thick, 4 ft (1.22 mm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max area of opening is 395 sq. in. (0.25 m2)with max dimensions of 26-3/4 in. (679 mm) for steel studs. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings are 1/2 hr and 3/4 hr for 1 and 2 hr rated assemblies, respectively

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

WL 7059

System No. W-L-7059

2. Steel Duct — Nom 24 in. by 12 in. (610 by 305 mm) (or smaller) No. 24 gauge (or heavier) steel duct to be installed eccentrically within the framed opening. The annular space shall be min 1 in. (25 mm) to max 1-3/4 in. (45 mm) Steel duct to be rigidly supported on both sides of wall assembly.
3. Batts and Blankets* — Max 1-1/2 in. (38 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m3) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed 50% such that the annular space within the firestop system shall be min 1/4 in. (6 mm) to max 1 in. (25 mm). See Batts and Blankets - (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.
4. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. or 1-1/4 in. (16 or 32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. If voids develop after the fill materials cures, the voids shall be sealed with additional fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI — RICHARD P. BEAUMONT — NUMBER — PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
6625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

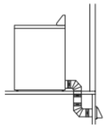
MP2.02

7/25/2022 12:14:33 PM | PARAGON STAR NORTH VILLAGE

TOP LOAD DRYER

Special provisions for mobile home installations:

The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.



Determine vent path:

- Select route that will provide straightest and most direct path outdoors.
- Plan installation to use fewest number of elbows and turns.
- When using elbows or making turns, allow as much room as possible.
- Bend vent gradually to avoid kinking.
- Use as few 90° turns as possible.

Determine vent length and elbows needed for best drying performance:

- Use following "Vent System Chart" to determine type of vent material and hood combinations acceptable to use.

  NOTE: Do not use vent runs longer than those specified in "Vent System Chart." Exhaust systems longer than those specified will:

  - Shorten life of dryer.
  - Reduce performance, resulting in longer drying times and increased energy usage.

The "Vent System Chart" provides venting requirements that will help achieve best drying performance.

Vent System Chart

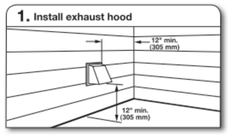
Number of 90° turns or elbows	Type of vent	Box/louvered hoods	Angled hoods
0	Rigid metal	64 ft. (20 m)	58 ft. (17.7 m)
1	Rigid metal	54 ft. (16.5 m)	48 ft. (14.6 m)
2	Rigid metal	44 ft. (13.4 m)	38 ft. (11.6 m)
3	Rigid metal	35 ft. (10.7 m)	29 ft. (8.8 m)
4	Rigid metal	27 ft. (8.2 m)	21 ft. (6.4 m)

Vent System Chart
(29" Wide Long Vent WED/WGD4875 and WED/WGD4975 Models Only)

Number of 90° turns or elbows	Type of vent	Box/louvered or angled hoods
0	Rigid metal	160 ft. (48.8 m)
1	Rigid metal	150 ft. (45.7 m)
2	Rigid metal	140 ft. (42.7 m)
3	Rigid metal	130 ft. (39.6 m)
4	Rigid metal	120 ft. (36.6 m)
5	Rigid metal	110 ft. (33.5 m)

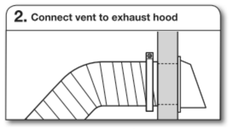
INSTALL VENT SYSTEM

1. Install exhaust hood



Install exhaust hood and use caulking compound to seal exterior wall opening around exhaust hood.

2. Connect vent to exhaust hood

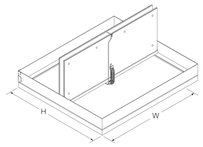


Vent must fit over the exhaust hood. Secure vent to exhaust hood with 4" (102 mm) clamp. Run vent to dryer location using straightest path possible. Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws, or other fastening devices that extend into interior of vent to secure vent, because they can catch lint.

METAL-FAB INC.

MODEL: DGCD BUTTERFLY DYNAMIC CEILING RADIATION DAMPER SQUARE/RECTANGULAR

UL CLASSIFIED
(SEE COMPLETE MARKING ON PRODUCT)



MODEL DGCD: UL 555C Listed 1-hour (Ceiling Design M557 & P581) (ULC-S112.2 for static damper only)

Square or rectangular butterfly-type

STANDARD CONSTRUCTION:

Frame: Roll formed, 22 Ga. galvanized steel
Blades: 22 Ga. galvanized steel
Blade Insulation: Non-asbestos, ceramic blanket (all sizes)

Spring: Corrosion resistant steel spring
Finish: Mill galvanized

OPTIONS:

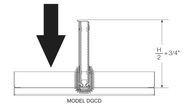
Adjustable Volume Control
Fusible Link: Replaceable 165°F

SIZE LIMITATIONS:

Sizes: Minimum: 4.25" W or 5.25" H.
Minimum area: 24 sq. inch (nominal).
Maximum 16" W x 14" H

VELOCITY RATING: 2,000 FPM @1" w.c.

AIRFLOW



SUGGESTED SPECIFICATION

Square and rectangular butterfly type ceiling radiation dampers shall be model DGCD by Metal-Fab. Ceiling dampers shall bear the Underwriters' Laboratories label and be rated for ductless, flexible duct or steel duct air systems. Ceiling radiation dampers shall be installed in an insulated metal boot/plenum (min. 28 gauge). Ceiling damper insulation shall be of the non-asbestos type. Ceiling dampers shall be furnished with a fusible link.

Project: Contractor:
Location: Address:
Architect: P.O. Number:
Engineer: Date:

©2020 Metal-Fab, Inc. Form No. L3029 - 08/20
10053

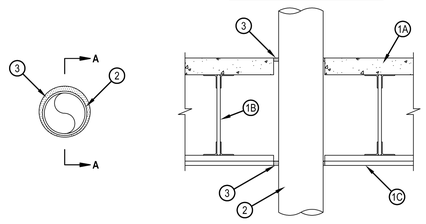
Litho in U.S.A.

System No. F-E-1004

FE 1004

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 1 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Floor-Ceiling Assembly — The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
   A. Concrete Floor — Normal weight or lightweight (100-150 pcf or 1600-2400 kg/m3) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Diam of floor opening to be max 1 in (25 mm) larger than OD of through penetrant.
   B. Joists — Steel joists or Structural Steel Members* as specified in the individual G500 Series Design.
   C. Gypsum board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design. Diam of ceiling opening to be max 1 in. (25 mm) larger than OD of through penetrant.
2. Through Penetrant — One metallic pipes, conduit or tube to be installed either concentrically or eccentrically within the opening. Annular space to be min 1/4 in. (6 mm) to max 3/4 in. (19 mm). Penetrant to be located approx midway between joists and rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, conduits or tubes may be used:
   A. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Materials*- Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of gypsum board.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI Hilti Firestop Systems

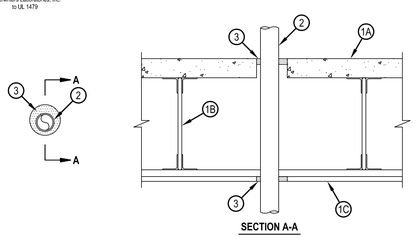
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2015

System No. F-E-2005

F Rating — 1 Hr
T Rating — 1 Hr

FE 2005

CLASSIFIED
Classified by Underwriters Laboratories, Inc. to UL 1479



SECTION A-A

1. Floor-Ceiling Assembly — The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
   A. Concrete Floor — Normal weight or lightweight (100-150 pcf or 1600-2400 kg/m3) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Max diam of opening to be max 1-5/8 in. (41 mm) larger than OD of through penetrant.
   B. Joists — Steel joists or Structural Steel Members* as specified in the individual G500 Series Design.
   C. Gypsum board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design. Max diam of ceiling opening to be max 1-5/8 in. (41 mm) larger than OD of through penetrant.
2. Through Penetrant — One nonmetallic pipe to be installed either concentrically or eccentrically within the opening. Annular space to be min 1/2 in. (13 mm) to max 1-1/8 in. (29 mm). Penetrant to be located approx midway between joists and rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipe may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
3. Fill, Void or Cavity Materials*- Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of gypsum board.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE-MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI Hilti Firestop Systems

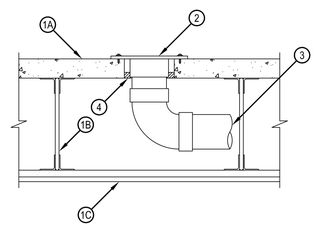
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2015

System No. F-E-2026

F Rating - 1 Hr
T Rating - 1/2 Hr

FE2026

CLASSIFIED
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



1. Floor-Ceiling Assembly — The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
   A. Concrete Floor — Normal weight or lightweight (100-150 pcf or 1600-2400 kg/m3) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Max diam of floor opening is 5 in. (127 mm).
   B. Joists — Steel joists or Structural Steel Members* as specified in the individual G500 Series Design
   C. Gypsum Board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design.
2. Closet Flange — Acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) closet stub sized to accommodate drain pipe. Closet flange installed over drain piping within floor opening with flange secured to concrete floor with steel screws. Diam of floor opening to be max 1/2 in. (13 mm) larger than outside diam of closet flange.
3. Drain Piping — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) drain pipe and 90 degree elbow for use in vented (drain, waste or vent) piping systems. Pipe installed concentrically within firestop system.
4. Fill, Void or Cavity Materials* — Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with the bottom surface of floor. When steel deck is used as a form for the concrete floor, the min 3/4 in. (19 mm) thickness of fill material shall be applied within the annulus above the top plane of the steel deck.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE-MAX Intumescent Sealant
5. Water Closet — (Not Shown) — Floor mounted vitreous china water closet.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2015

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.22
Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER PE-2009018755
PROFESSIONAL ENGINEER
7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
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LANDSCAPE	LAND 3
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MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

MECHANICAL DETAILS

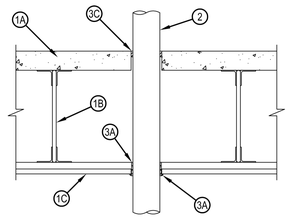
SHEET NUMBER

MP2.03

FE 2029

System No. F-E-2029

F Rating — 1 Hr
T Ratings — 0, and 1/2 Hr (See Item 2)



1. Floor-Ceiling Assembly — The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
   A. Flooring — Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete as specified in the individual G500 Series Design. Max diam of opening shall be 4 in. (102 mm).
   B. Joists — Steel joists or Structural Steel Members* as specified in the individual G500 Series Design.
   C. Gypsum Board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design. Max diam of opening shall be 4 in. (102 mm).
2. Through Penetrants — One non-metallic pipe or conduit to be installed concentrically or eccentrically within the opening. The annular space between the pipe or conduit and the periphery of opening shall be min 3/16 in (4.8 mm). to max 5/16 in. (8 mm). Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of non-metallic pipes or conduit may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular core or solid core PVC pipe for use in vented (drain, waste or vent) or closed (process or supply) piping systems.
   B. Chlorinated Polyvinyl (CPVC) Pipe — Nom 3 in. (76 mm) diam (or smaller) SDR13.5 CPVC pipe for use in vented (drain, waste or vent) or closed (process or supply) piping systems.
   C. Rigid Nonmetallic Conduit+ — Nom 3 in. (76 mm) diam (or smaller) PVC conduit installed in accordance with the National Electrical Code (NFPA 70).
   D. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   The T Rating is 1/2 Hr for penetrants with a nom diam of 2 in (51 mm) or smaller. The T Rating is 0 Hr for penetrants with a nom diam greater than 2 in. (51 mm).

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2015

FE 2029

System No. F-E-2029

3. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* - Wrap Strip — Wrap strip to be wrapped around pipe with ends tightly butted and held in place with tape. Wrap strip slid into the annular space such that the bottom edge of the wrap strip extends 1/4 in. (6 mm) from the bottom surface of the ceiling board.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 648S - 1.5"(38 mm) US, CP 648S - 2"(51 mm) US, CP 648S - 3"(76 mm).
   B. Fill, Void or Cavity Material* - Sealant — Min 1/4 in. (6 mm) bead applied around periphery of wrap strip, at the wrap strip/gypsum board interface.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE-MAX Intumescent Sealant
   C. Fill, Void or Cavity Material* - Sealant — Min 3/4 in (19 mm) depth applied within the annulus, flush with the top surface of the floor.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+Bearing the UL Listing Mark.

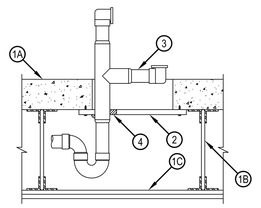
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2015

FE 2028

System No. F-E-2028

F Rating - 1 Hr
T Rating - 1/2 Hr



1. Floor-Ceiling Assembly — The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
   A. Concrete Floor — Normal weight or lightweight (100-150 pcf or 1600-2400 kg/m3) concrete formed on removable flat forms or on corrugated steel deck as specified in the individual G500 Series Design. Max area of floor opening is 96 in.2 (0.06 m2) with max dimension of 12 in. (305 mm).
   B. Joists — Steel joists or Structural Steel Members* as specified in the individual G500 Series Design
   C. Gypsum Board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design.
2. Floor Patch — Min 5/8 in. (16 mm) thick patch cut from water resistant Gypsum Board* or Cementitious Backer Unit* secured to underside of floor beneath floor opening. Patch sized to lap min 2 in. (51 mm) beyond each side of floor opening. Patch split into two pieces at opening made to accommodate bathtub drain fitting (Item 3). Diam of hole-sawed opening in patch to be 1 in. (25 mm) larger than outside diam of bathtub drain fitting. Two pieces of patch positioned around drain fitting with cut edges tightly-butted and such that the annular space between the drain fitting and the patch is min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Patch secured to underside of floor with min 3/16 in. (4.8 mm) diam by 1-3/4 in. (44 mm) long steel masonry anchors in conjunction with min 1 in. (25 mm) diam steel fender washers. Fasteners to be located at each corner of patch, on each side of split made to accommodate drain fitting and max 6 in. (152 mm) on center around perimeter of floor opening.
3. Drain Piping — Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 solid or cellular core acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) pipe and drain fittings cemented together and provided with ABS or PVC bathtub waste/overflow fittings.
4. Fill Void or Cavity Materials* — Min 5/8 in. (16 mm) depth of fill material applied within the annulus, flush with both surfaces of gypsum board or cementitious backer unit patch. When floor is formed with corrugated steel deck, each corrugation above patch is to be filled with a min 5/8 in. (16 mm) depth of fill material along the side edges of the patch.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE-MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

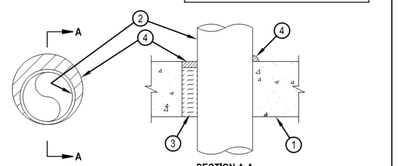
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2015

CAJ 1149

System No. C-AJ-1149

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating —2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
W Rating — Class 1 (See Item 4)	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *, Max diam of opening is 12 in. (305 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 0 in. (point contact) to max 1-1/4 in. (32 mm). The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 10 in. (254 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
   D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 4 in. (102 in.) diam (or smaller) Regular (or heavier) copper pipe.
3. Packing Material — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation for nom 4 in. diam (and smaller) pipes, conduits or tubings and a min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation for pipe greater than nom 4 in. diam, firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.
4. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. At the point of contact location between pipe and concrete, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. W Rating applies only when CFS-S SIL GG, CFS-S SIL SL (floors only), CP601S or CP604 sealant is used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP604, CFS-S SIL GG, CFS-S SIL SL (floors only), CP606 or FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

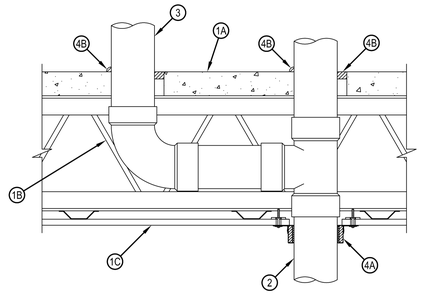
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 06, 2015

FE 2033

System No. F-E-2033

F Rating — 1 Hr
T Rating — 1 Hr



1. Floor-Ceiling Assembly — The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
   A. Concrete Floor — Normal weight or lightweight (100-150 pcf or 1600-2400 kg/m3) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Diam of floor opening to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than diam of pipe. Max diam of opening is 5 in. (127 mm).
   B. Joists — Steel joists or Structural Steel Members* as specified in the individual G500 Series Design.
   C. Gypsum Board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design. Diam of ceiling opening to be max 1/2 in. (13 mm) larger than diam of pipe. Max diam of opening is 5 in. (127 mm).
2. Through Penetrant — One nonmetallic pipe to be installed within the firestop system. Pipe to be located approx midway between joists and rigidly supported on both sides of floor-ceiling assembly. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Pipe may be installed with continuous point contact where it passes through gypsum board ceiling. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

Hilti Firestop Systems

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FE 2033

System No. F-E-2033

3. Branch Piping — (Optional) — One nonmetallic pipe with or without nom 4 in. (102 mm) diam (or smaller) toilet flange (not shown) connected to through penetrant (Item 2) within concealed space above ceiling and installed concentrically or eccentrically within opening in concrete floor. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Branch piping may terminate in a max 4 in. (102 mm) diam toilet flange that corresponds to the type of branch piping. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
4. Firestop System — The details of the firestop system shall be as follows:
   A. Firestop Device* — Firestop Collar — Steel collar lined with an intumescent material sized to fit the specific diam of pipe shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to underside of ceiling using the anchor hooks provided with the collar. Min two anchor hooks required for 1-1/2 (38 mm) and 2 in. (51 mm) diam pipes and min three anchor hooks required for 3 in. (76 mm) and 4 in. (102 mm) diam pipes. The anchor hooks are to be secured to the ceiling with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) long steel toggle bolts in conjunction with min 3/4 in. (19 mm) diam steel washers.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP643 63/2"N, CP 643 90/3"N or CP643 110/4"N Firestop Collar
   B. Fill, Void or Cavity Material* - Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with the top surface of the floor. Min 1/4 in. (6 mm) diam bead of sealant applied at point contact locations at pipe/floor interface.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

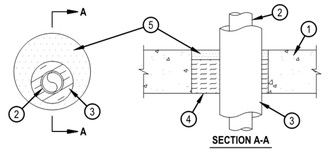
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 20, 2015

CAJ 5048

System No. C-AJ-5048

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 2 Hr	FT Rating — 2 Hr
L Rating At Ambient — 4 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Rating — 2 Hr
W Rating — Class 1 (See Items 3A and 5)	L Rating At Ambient — 4 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 5 in. (127 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. (203 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Pipe — One 2 in. (51 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly.

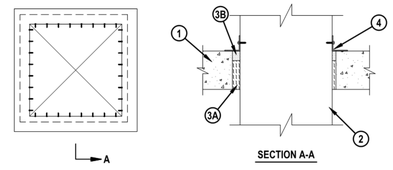
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 14, 2015

CAJ 7051

System No. C-AJ-7051

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 3 Hr	F Rating — 3 Hr
T Rating - 1 Hr	FT Rating - 1 Hr
	FH Rating - 3 Hr
	FTH Rating - 1 HR



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 5-1/2 in. (140 mm) thick lightweight on normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 1024 in. sq (6606 cm2) with a max dimension of 32 in. (813 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Duct — Nom 30 by 30 in. (762 by 762 mm) by No. 24 gauge (or heavier) galv steel duct. One steel duct to be positioned within the firestop system. The annular space shall be min 1/4 in. (6 mm) to max 1-3/4 in. (44 mm). Duct to be rigidly supported on both sides of floor or wall assembly.
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Materials — Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form between the bare steel duct and the periphery of the opening. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Flexible Firestop Sealant, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
4. Steel Retaining Angle — Nom 2 in. by 2 in. (51 by 51 mm) by No. 16 gauge (or heavier) steel angles attached to all four sides of the steel duct on the top surface or both surfaces of the wall. The angles shall be attached with No. 8 (or larger) steel sheet metal screws spaced max of 1 in. (25 mm) from each end and a max of 3 in. (76 mm) OC.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 14, 2015

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2007018010
PROFESSIONAL ENGINEER

7/20/2022

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ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

MP2.04

HVAC SYSTEM SCHEDULE

			AHU											OUTDOOR UNIT					
MARK	**MFGR**	**NOM TON**	**MODEL**	**CFM**	**OA CFM**	**E.S.P.**	**HP**	**SMBH**	**TMBH**	**HEAT CAP**	**ELEC**	**FLA**	**OCP**	**MFGR**	**MODEL**	**ELEC**	**FLA**	**OCP**	**SEER**	**NOTES**
APARTMENTS																				
A1, A2, A3, A4, B1, B2, B3	GOODMAN	1 1/2	AWUF1908C14	600		0.5	0.2	12.4	17.4	3.7 KW	208/1	20	30	GOODMAN	GSX14018	208/1	14	20	14.0	
C1, C2, C3	GOODMAN	1 1/2	AWUF1908C14	600		0.5	0.2	12.4	17.4	5.6 KW	208/1	31	40	GOODMAN	GSX14018	208/1	14	20	14.0	
C4, C5, C6, C7, C8, C9, C10, C11, C12, D3, D4, D6, D8, E2, E3	GOODMAN	2	AWUF2408C14	750		0.5	0.2	17.2	22.8	5.6 KW	208/1	31	40	GOODMAN	GSX14024	208/1	14	25	14.0	
D1, D2, D5, D7, D9, D10, D11, E1, F1	GOODMAN	2 1/2	AWUF3010	950		0.5	0.33	21	28.8	7.5 KW	208/1	39	50	GOODMAN	GSX14030	208/1	15	30	14.0	
PH-1 THRU PH-9	GOODMAN	2	AWUF2408C14	750		0.5	0.2	17.2	22.8	5.6 KW	208/1	31	40	GOODMAN	GSX14024	208/1	14	25	14.0	
COMMON AREAS																				
HA1, HA2, HA3, HA4, HB2, HB5, HB7, HB9, HC1, HD2,	GOODMAN	1.5	ARUF25B14	500-750	110	0.3	0.25	13.5	17.8	6 KW	208/1	31	40	GOODMAN	GSX14-0181	208/1	6.7	15	14.0	
HD7, HD8, HD9, HE2, HE3, HE4, HE5, HF1, HF2, HF3, HF4, HF5	GOODMAN	2	ARUF25B14	750-975	120	0.4	0.33	16.9	23.0	7.2 KW	208/1	37	50	GOODMAN	GSX14-0241	208/1	8.4	15	14.0	
HB1, HB4, HB6, HB8, HC2, HC3, HC4, HD1, HE2, HE3, HE4	GOODMAN	2.5	ARUF31B14	800-1050	130	0.4	0.33	21.0	28.2	7.2 KW	208/1	37	50	GOODMAN	GSX14-0301	208/1	13.8	25	14.0	
HD3, HD4, HD5, HE1	GOODMAN	3	ARUF37D14	1120-1300	100	0.4	0.5	25	33.6	10.8 KW	208/1	55	70	GOODMAN	GSX14-036	208/1	15.1	30	14.0	
	GOODMAN	4	ARUF47D14	1400-1600	250	0.4	0.5	32	45	10.8 KW	208/1	55	70	GOODMAN	GSX14-0481	208/1	21.2	45	14.0	
HD6	GOODMAN	5	ARUF61D14	1750-1980	280	0.4	0.75	40	57	14.4 KW	208/1	73	90	GOODMAN	GSX14-0601	208/1	26.3	50	14.0	
HB3A	GOODMAN	2.5	ACNF-3108	800	100	0.4	0.25	21.0	28.2	6 KW	208/1	33	40	GOODMAN	GSX14-0301	208/1	13.8	25	14.0	
HB3B	GOODMAN	2	ACNF-2508	600	80	0.4	0.25	16.9	23.0	6 KW	208/1	33	40	GOODMAN	GSX14-0241	208/1	8.4	15	14.0	
																				WALL STAT, LOW AMB
DSS IT	FUJITSU	1.5	ASU18RLF	540	0	0			18	21 MBH	208/1	W/HP		FUJITSU	AOU18RXLFW1	208-240/1	13	25	19	WALL STAT, LOW AMB
DSS STAIR	FUJITSU	2	ASU24RLF	700	0	0			22	25 MBH	208/1	W/HP		FUJITSU	AOU24RXLFW1	208-240/1	15.5	25	19	

COOLING EAT = 80/67/95
PROVIDE EACH UNIT WITH FILTER AND RACK, SINGLE POINT BREAKER, T'STAT. SEE SPECS.
FLOOR PLAN SHOWS "W" PREFIX "AHU-W##"
UNLESS OTHERWISE SHOWN, TSTAT IS INSTALLED BEHIND RETURN AIR GRILL.

EXHAUST FAN SCHEDULE

						ELECTRICAL				
MARK	MFGR	MODEL	CFM	ESP	FAN HP	VOLTS/ PH	FLA	OCP	WIRING	CONFIGURATION - NOTES
EF-G1, G2, G3	GREENHECK	SB-2L48-30	25000	0.25	3.00	208/3	8	15	(3) #12	sidewall, 1
EF-B1, B2, D3, D4	GREENHECK	SP-A110	75	0.25	Fr.	120/1	1	15	(3) #12	ceiling, 1, 2
EF-D1, D2	GREENHECK	SP-A190	150	0.25	Fr.	120/1	1	15	(3) #12	ceiling, 1, 2
APT EF	BROAN	LP50100DC	80	0.1	Fr.	120/1	1	15	(3) #12	ceiling, 2, 3

NOTES:
1-BD DAMPER, CO/NO2 SENSING SYSTEM, LPD, WALL COLLAR, BACK GUARD
2-CEILING GRILLE, DS, WALL/ROOF CAP
3-WITH CRD

ELECTRIC UNIT HEATER SCHEDULE

						ELECTRICAL				
MARK	**MFGR**	**MODEL**	**KW**	**MBH**	**CFM**	**VOLTS/ PH**	**FLA**	**OCP**	**WIRING**	**CONFIGURATION - NOTES**
EUH - A	BERKO	FRA-4024	3.0	10.2	100	208/1	12	20	(3) #12	WALL, 1, 4, 6
EUH - B	BERKO	HUH-520	5.0	17.0	270	208/1	26	35	(2) #8, (1) #10	SUSPENDED, 4, 6
EUH - C	BERKO	SRC-1512	1.5	5.1	65	120/1	12	20	(3) #12	CEILING, 1, 4, 5
TEMP EUH	BERKO	HUH-1520	15.0	51.0	600	208/1	42	50	(2) #8, (1) #10	SUSPENDED, 4, 6

NOTES:
1-SURFACE MOUNTED
2-SEMI-RECESSED
3-FULLY RECESSED
4-DISCONNECT
5-INTEGRAL T'STAT - HONEYWELL T3000
6-WALL T'STAT - HONEYWELL T3000

DRAIN SCHEDULE

MARK	APPLICATION	MFGR	MODEL	BODY MAT'L	DEPTH	GRATE MAT'L	GRATE SHAPE	ACCESSORIES
APT FD	FLOOR	SIOUX CHIEF	842	ABS/PVC	3"	PVC	6" SQUARE	
APT FD	FLOOR - WOOD	SIOUX CHIEF	822	ABS/PVC	3"	PVC	6" SQUARE	
FD-1	FLOOR	ZURN	ZN-415S	COATED CAST IRON	3"	NICKEL BRONZE	6" SQUARE	1, 2, 6
FD-2	FLOOR	ZURN	Z-611-S	COATED CAST IRON	6"	COATED CAST IRON	9" SQUARE	1, 2, 3, 6
FD-3	FLOOR - GARAGE	ZURN	Z-534-Y	COATED CAST IRON	3"	COATED CAST IRON	12" ROUND	4, 6
RD-1	ROOF	SIOUX CHIEF	686	ABS/PVC	6"	POLY	DOME	
RD-2	ROOF	SIOUX CHIEF	868-STP2	ABS/PVC	6"	POLY	DOME	5
TRENCH	TRENCH	ABT	POLYDRAIN	COMPOSITE	6-8"	EPOXY CTD DUCTILE	6" WIDTH	

ACCESSORIES:
1 - DEEP TRAP, ADJUSTABLE GRATE
2 - USE WIDE FLANGE MODEL WHERE IN WOOD DECK FLOOR
3 - INTERNAL STRAINER
4 - SEDIMENT BUCKET
5 - 2" DAM FOR OVERFLOW SERVICE
6 - WITH TRAP GUARD

AIR TERMINAL DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	FINISH	DAMPER	FRAME TYPE	NOTES
A	AIR MATE	A190	WHITE	YES	GYP BD.	CRD
B	AIR MATE	170	WHITE	NO	GYP BD	
C	AIR MATE	240 VO	WHITE	YES	GYP BD	
D	PRICE	620DAL/N/L/A/B12	WHITE	YES	GYP. BD.	CRD where in rated clg
E	PRICE	635/N/L/A/B12	WHITE	NO	GYP. BD.	

Notes - Provide radiation damper in rated ceilings.

PLUMBING FIXTURE SCHEDULE

Mark	Item	Model	Description	Individual Connections				Accessories					
				W	V	CW	HW	Supplies	Stops	Carrier	P-Trap	Drain	Other
P-1	Water Closet, Tank Type	Proflo #1401TWH with PF1400T	Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white seat with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1"		2					
P-1H	Accessible Water Closet, Tank Type	Proflo #1403TWH with PF1400T	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Public seats to be ProFlo #PFTSCOF2000BL	3" or 4"	2"	1"		2					
P-1P	Water Closet, Flush Valve, Wall Mount	American Standard 3351101.020 with Sloan 111SMO	Wall mounted water closet: White viterous china, elongated bowl, 1.6gpf auto flush valve. Provide solid plastic open front elongated white seat/cover with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1"		2					
P-1PH	Accessible Water Closet, Flush Valve, Wall Mount	American Standard 3351101.020 with Sloan 111SMO	ADA compliant wall mounted water closet: White viterous china, elongated bowl, 1.6gpf auto flush valve. Provide solid plastic open front elongated white seat/cover with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1"		2					
P-1PHF	Accessible Water Closet, Flush Valve, Floor Mount	American Standard 3043.001 with Sloan 111SMO	ADA compliant water closet: White viterous china, elongated bowl, 1.6gpf auto flush valve. Provide solid plastic open front elongated white seat/cover with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1"		2					
P-2	Lavatory, Undermount	ProFlo #PF1713UWH with Moen #MT6142BL	17" x 13" rectangular vitreous china undermount lavatory with overflow. Faucet is 4" o.c. dual lever ADA handles, copper waterways,matte black finish, 1.2 GPM.	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1	1	
P-2P	Accessible Lavatory, Undermount	Kohler #K-2882-0, Bradley S53-3300, 6-3300	17"x13"x3" vitreous china undermount lavatory with overflow. Faucet is auto sensing, copper waterways, brushed black stainless, .35 GPM. Provide with auto soap dispenser and drain stopper to match faucet finish.	2"	1 1/2" or 2"	1/2"	1/2"	2, 4	1		1	1	1, 3
P-2H	Accessible Lavatory, Undermount	ProFlo #PF1713UWH with Moen #MT6142BL	17" x 13" rectangular vitreous china undermount lavatory with overflow. Faucet is 4" o.c. dual lever ADA handles, copper waterways,matte black finish, 1.2 GPM.	2"	1 1/2" or 2"	1/2"	1/2"	2, 4	1		1	1	1, 3
P-3	Bathtub	Sterling Ensemble # 71121112 with Moen T3003EPBL	60-1/4" x 32" reinforced resin base. Provide pressure balanced 1.75 GPM valve with large head, matte black, lever handle. See Arch for door/curtain.	2"	2"	1/2"	1/2"				2		
P-3S	72" x 36" Shower	Tile Redi P3672C-PVC with Peerless Precept #PTT188792-BL	72" x 36" reinforced resin base with slip-resistant bottom. Provide pressure balanced 2.0 gpm valve with large head, matte black, lever handle. See Arch for door/curtain.	2"	2"	1/2"	1/2"				2	3	
P-3S2	48" Shower	Sterling #72120106 with Peerless Precept #PTT188792-BL	48" x 34" reinforced resin base with slip-resistant bottom. Provide pressure balanced 2.0 gpm valve with large head, matte black, lever handle. See Arch for door/curtain.	2"	2"	1/2"	1/2"				2	3	
P-3S3	60" Shower	Sterling #72181120 and Peerless Precept #PTT188792-BL	60" x 36" reinforced resin base with slip-resistant bottom. Provide pressure balanced 2.0 gpm valve with large head, matte black, lever handle. See Arch for door/curtain.	2"	2"	1/2"	1/2"				2	3	
P-3S4	72" x 48" Shower	Tile Redi P3672C-PVC with Peerless Precept #PTT188792-BL	72" x 48" reinforced resin base with slip-resistant bottom. Provide pressure balanced 2.0 gpm valve with large head, matte black, lever handle. See Arch for door/curtain.	2"	2"	1/2"	1/2"				2	3	
P-3SH	60" Shower - ADA	Freedom Showers #APF6033BFPANC with Moen T8346	60" x 33" white fiberglass reinforced plastic/acrylic non-slip basin. Compressable rubber threshold. Handheld ADA sprayer. matte black	2"	2"	1/2"	1/2"				2	3	
P-4	Kitchen Sink	Elkay #ECTRU24179RT, Moen #7882BL	Stainless steel under-mount 18 ga.single bowl 25x18x9 deep. Single handle matte black faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1		2	2	
P-4H	Accessible Kitchen Sink	Elkay #ELUHAD191655PD, Moen #7882BL	Stainless steel under-mount 18 ga single bowl 21" x 18" x 6" deep with back outlet. Single handle ADA faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug. Install per ADA clearnaces.	2"	2"	1/2"	1/2"	1	1		2	2	
P-4P	Kitchen Sink, Amenity	Koohler #K-5872-5UA1 with Delta #D9159TVBLDST	Enameled cast iron 22"x16"x9" deep undermount. Single handle bronze faucet with pull out sprayer.										
P-5	Washer Box	Guy Gray #WB200HATM	Recessed non-metallic with dual PVC/ABS 2" outlets, two angle quarter turn stops with built-in shock absorbers.	2"	2"	1/2"	1/2"	1			3		
P-6	Water Outlet Box	Guy Gray #BIM877QTS	Recessed non-metallic with two angle quarter turn stops.			1/2"		1					
P-7	Urinal	Zurn #Z5755-U, ZER6003AV-TM	White vitreous china wall hung with 3/4" top spud, 1.0 gallon siphon jet flushing action. Mount rim per Architectural elevation.	2"	2"	3/4"		3		1	1		2
P-8	Janitor's Sink	Fiat #MSB-2424	24" x 24" x 10" white molded stone with stainless steel integral drain, chrome plated brass wall mounted faucet with VB, integral stops, adjustable wall brace, pail hook, 3/4" hose threaded spout and wall shileds.	2" or 3"	2"	1/2"	1/2"				2		2
P-9	Accessible Dual Height Water Cooler	Halsey Taylor #HAC8BLFSQ	ADA compliant dual bowl cooler providing 8 gph of 50 deg water at 90 deg ambient. Provide front and side push bars, lead free, mounted with 27" knee clearance and spout no more than 36" AFF.	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1		1
P-9a	Accessible Water Cooler with bottle filler	Elkay #EZSTLDDWSLK	ADA compliant double bowl cooler providing 8 gph of 50 deg water at 90 deg ambient. Provide front and side push bars, lead free, mounted with 27" knee clearance and spout no more than 36" AFF.	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1		1
P-9b	Bottle Filler	Elkay #LZ8WSSSMC	ADA compliant surface mount bottle filling station. providing 8 gph of 50 deg water at 90 deg ambient	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1		1
P-12	Utility Sink	Fiat #FL-1	20" x 17" x 13" white molded stone with legs, stainless steel integral drain and stopper, chrome plated brass deck mounted faucet with VB, integral stops, adjustable wall brace, pail hook, 3/4" hose threaded spout.	2"	2"	1/2"	1/2"	2	1		1		2

Supplies
1 - Flexible braided stainless steel
2 - Flexible braided compression hose.
3 - Sloan Royal 186 1.0 gpf diaphragm type.
4 - Public lavatories to have ASSE 1070 thrmostatic mixing valve

Stops
1 - Angle handle compression

Carrier
1 - Steel tube floor-mounted in-wall carrier with arms

P-Trap
1 - PVC with deep escutcheon
2 - PVC
3 - deep seal PVC trap and 30" standpipe.

Drain
1 - Metal pop-up with tailpiece
2 - Basket strainers in finish to match faucet, tailpiece.

Other
1 - Provide trap and supply guard if exposed.
2 - Hose and bracket, mop hanger and hose rack.
3 - See ID Plans for faucet spec

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.22
Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER A-2007018010
PROFESSIONAL ENGINEER
7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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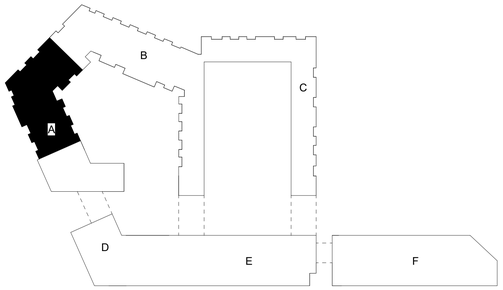
LSA PROJECT NO. 2104043

SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

MP2.05



NORTH

1 BUILDING A FIRST FLOOR PLAN

POWER

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. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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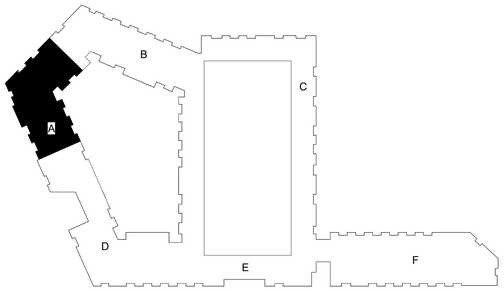
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING A FIRST FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.11A



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.
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8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
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    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING A SECOND FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2010021
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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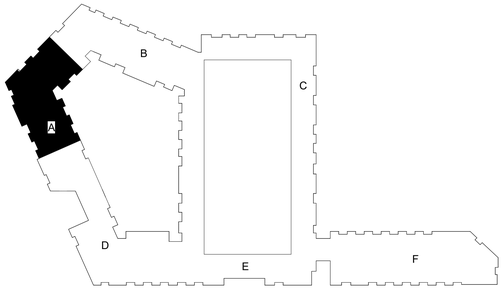
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING A SECOND FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.12A



1 **BUILDING A THIRD FLOOR PLAN**
POWER
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.
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8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
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    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAMONTE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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9625 College Boulevard, Suite 102
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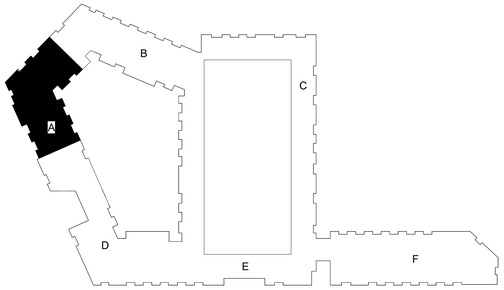
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING A THIRD FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.13A



1 BUILDING A FOURTH FLOOR PLAN

POWER

1/8" = 1'-0"

NORTH

NOTES:

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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.
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    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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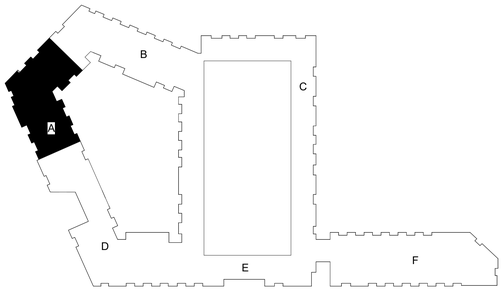
Email: lsapa@lsapa.com
LSA PROJECT NO. 210404

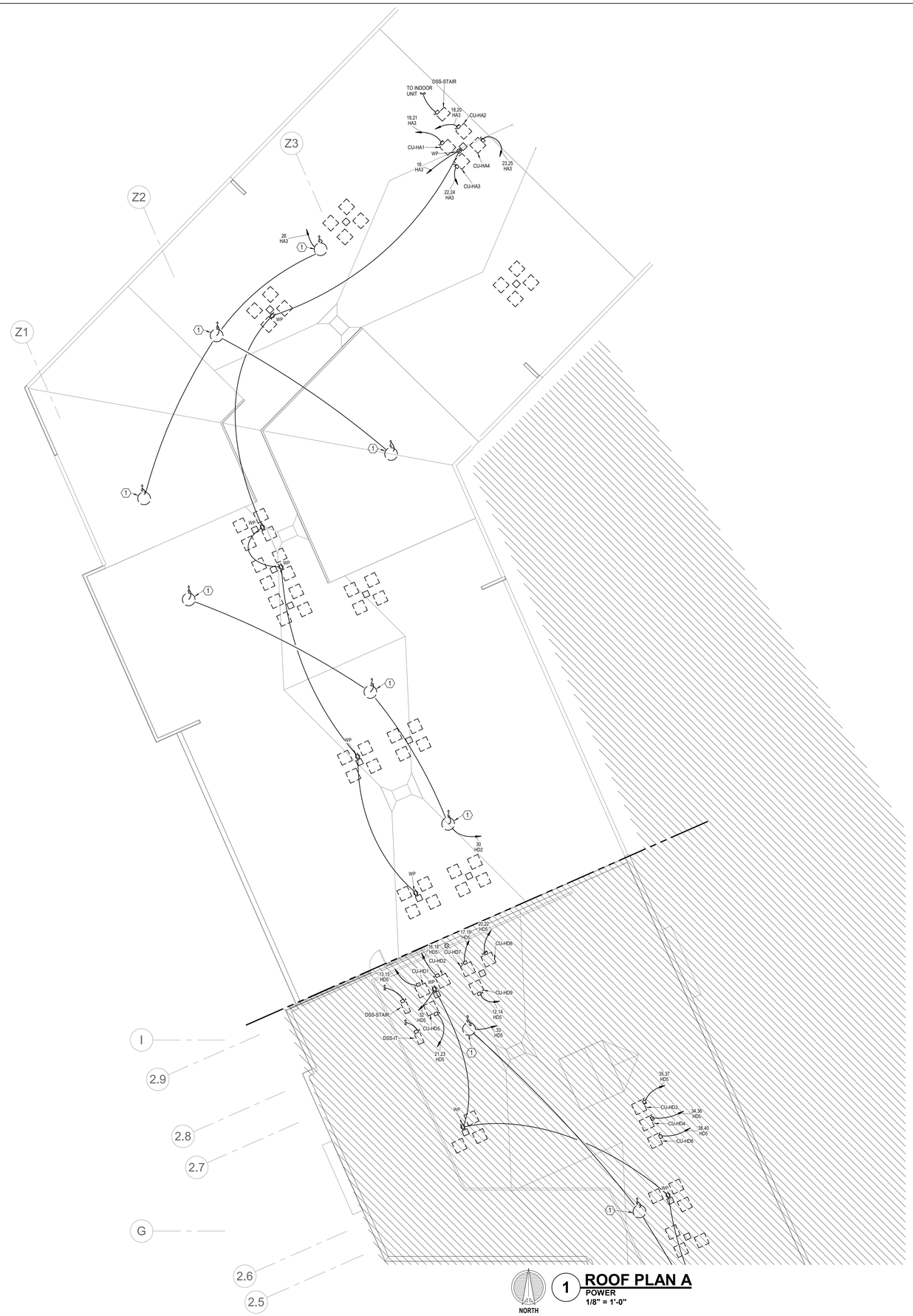
SHEET TITLE

BUILDING A FOURTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.14A





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10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL ▽ FIXTURES ARE TYPE X1 UNO
    ALL ▽1 FIXTURES ARE TYPE X2 UNO
    ALL ▽2.5 FIXTURES ARE TYPE X3 UNO
    ALL ▽ FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

XX PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN.

(1) INSTALL DEVICE WITH FIRE ALARM SYSTEM.

1 **ROOF PLAN A**
POWER
1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAPDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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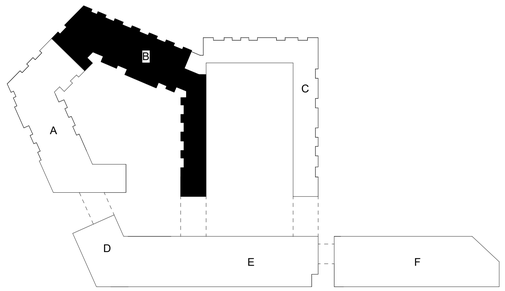
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN A - ELECTRICAL

SHEET NUMBER

E1.15A



NOTES:

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2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
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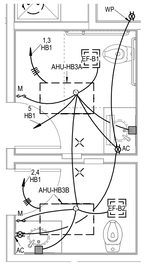
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

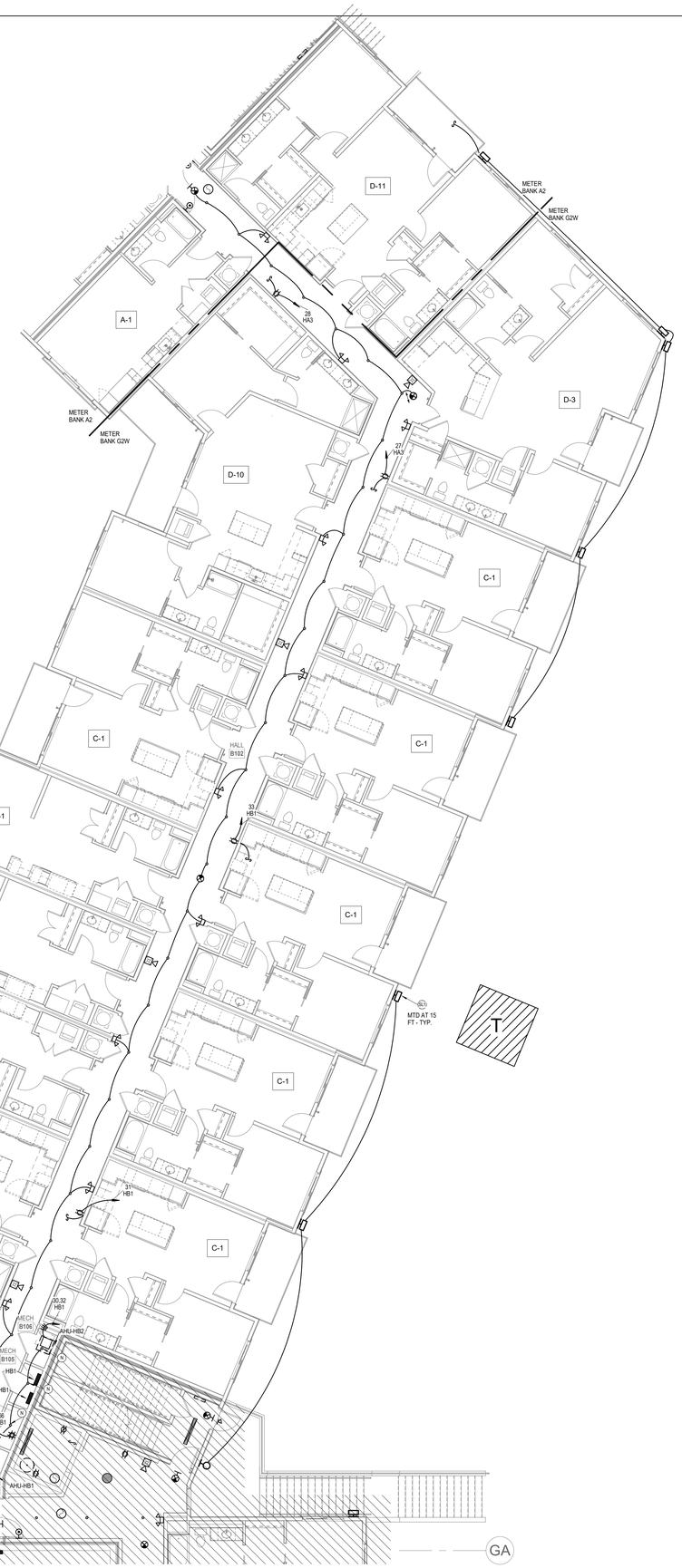
(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



NORTH

2 PARTIAL FIRST FLOOR PLAN RESTROOM POWER

1/4" = 1'-0"



NORTH

1 BUILDING B FIRST FLOOR PLAN POWER

1/8" = 1'-0"

7/25/2022 12:03:44 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2006018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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9625 College Boulevard, Suite 102
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Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B FIRST FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.21B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING B SECOND FLOOR PLAN

POWER

1/8" = 1'-0"

7/25/2022 12:03:48 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B SECOND FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.22B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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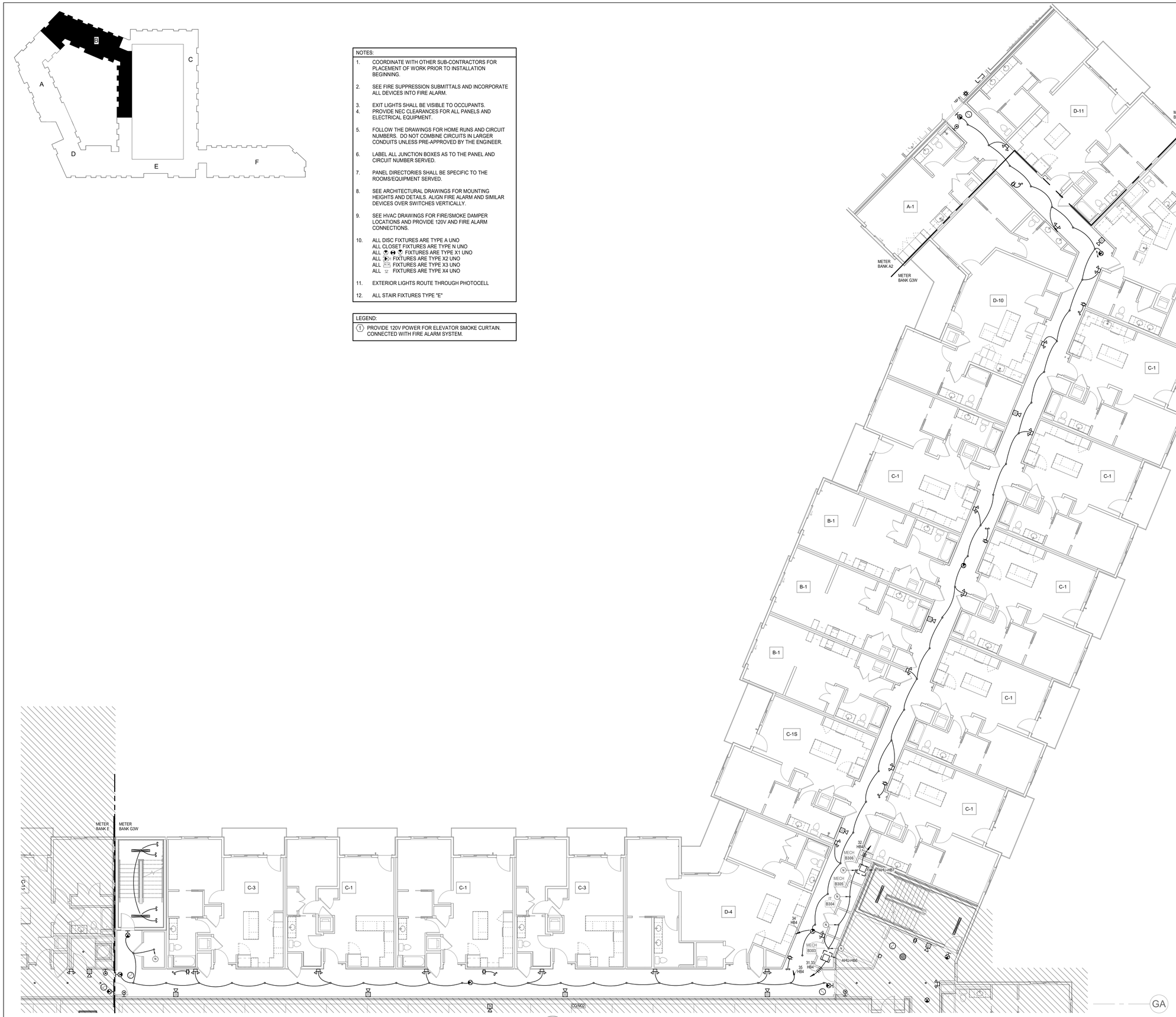
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



NORTH

1 BUILDING B THIRD FLOOR PLAN

POWER

1/8" = 1'-0"

7/25/2022 12:03:52 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Overland Park, Kansas 66210
Telephone: (785) 233-5222
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B THIRD FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.23B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

1 BUILDING B FOURTH FLOOR PLAN

POWER

1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING B FOURTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.24B

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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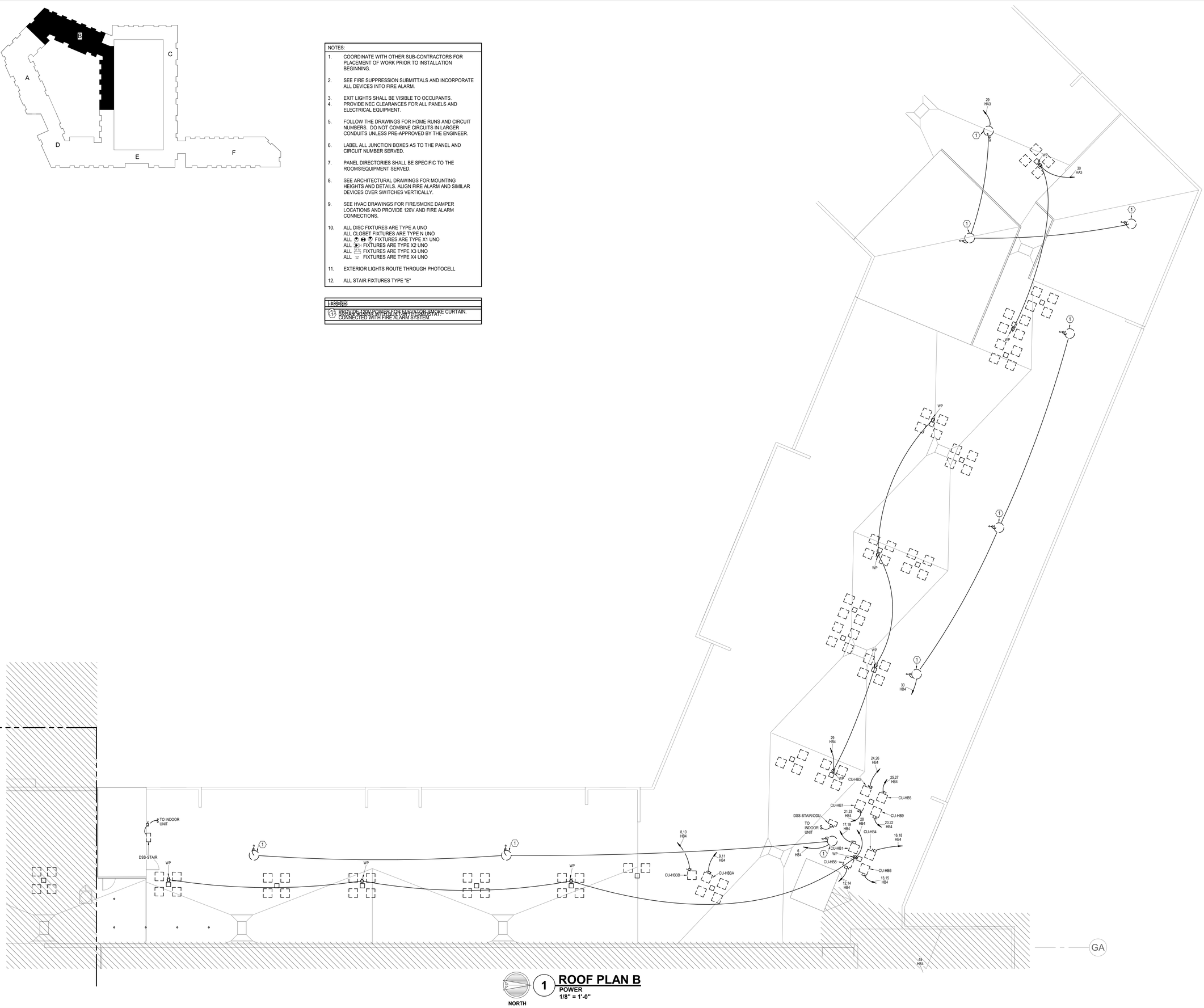
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. BRAVA 32486 WITH BUILT-IN THERMOSTAT. CONNECTED WITH FIRE ALARM SYSTEM.



NORTH

1 ROOF PLAN B

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
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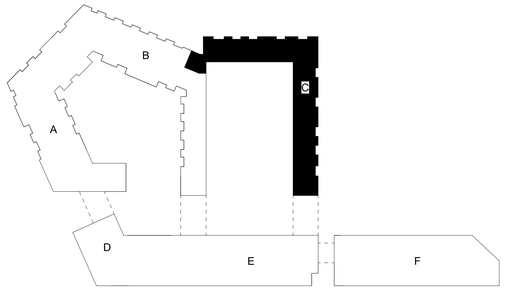
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

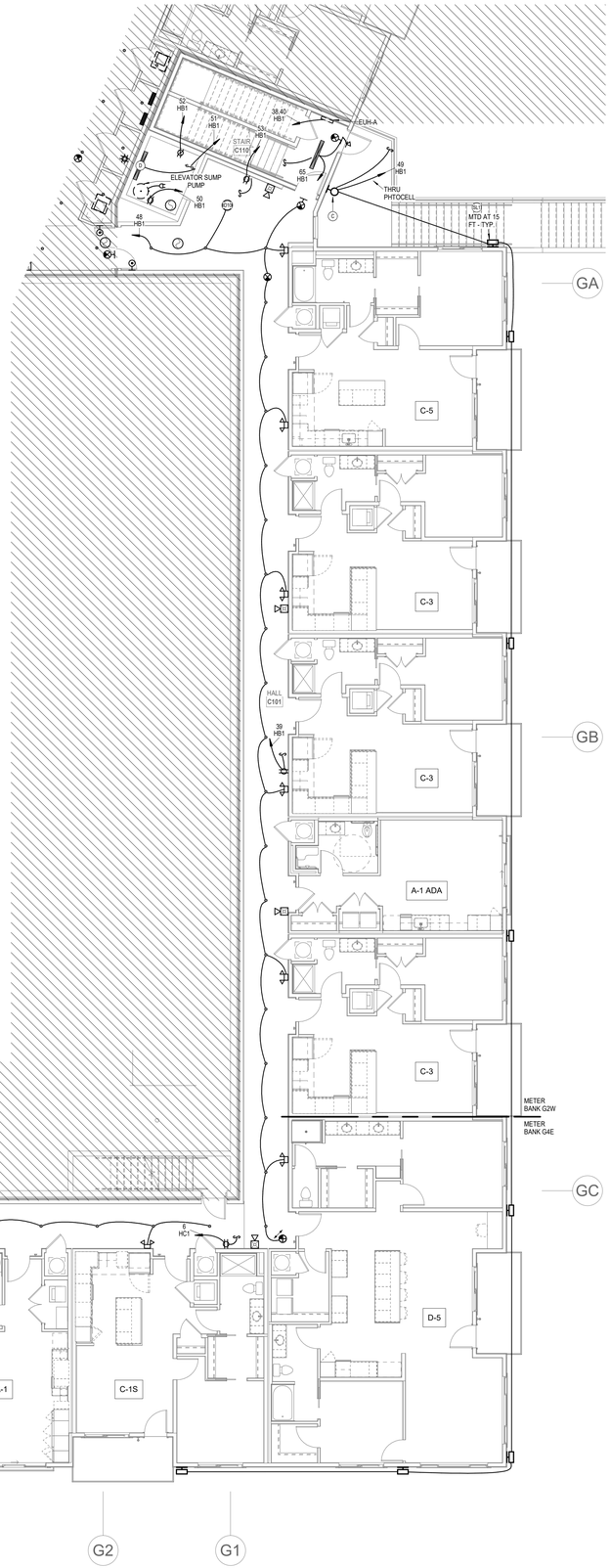
SHEET TITLE

ROOF PLAN B - ELECTRICAL

SHEET NUMBER

E1.25B





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. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING C FIRST FLOOR PLAN

POWER
1/8" = 1'-0"

7/25/2022 12:04:03 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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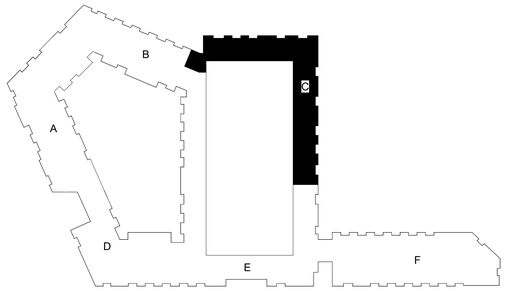
Telephone: (785) 233-5222
Email: lsapa@lsapa.com
LSA PROJECT NO. 210403

SHEET TITLE

BUILDING C FIRST FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.31C



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.
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8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
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    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING C SECOND FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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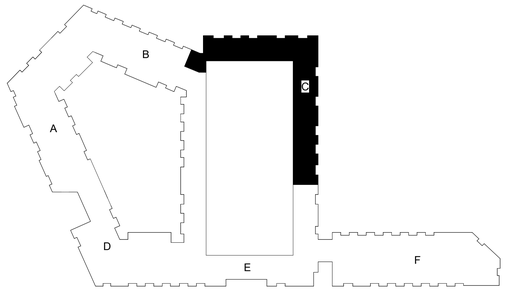
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING C SECOND FLOOR PLAN -ELECTRICAL

SHEET NUMBER

E1.32C



NOTES:

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    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING C THIRD FLOOR PLAN

POWER
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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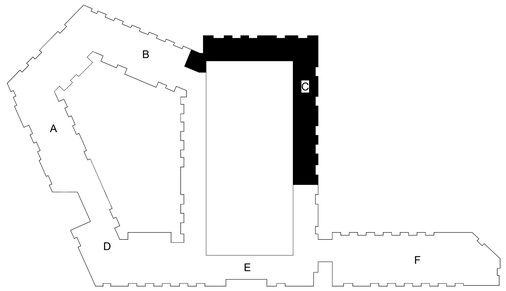
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING C THIRD FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.33C



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.
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    ALL CLOSET FIXTURES ARE TYPE N UNO
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    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING C FOURTH FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

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3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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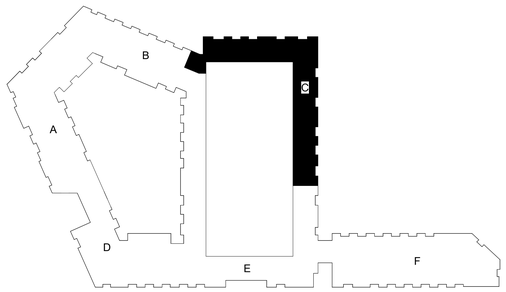
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

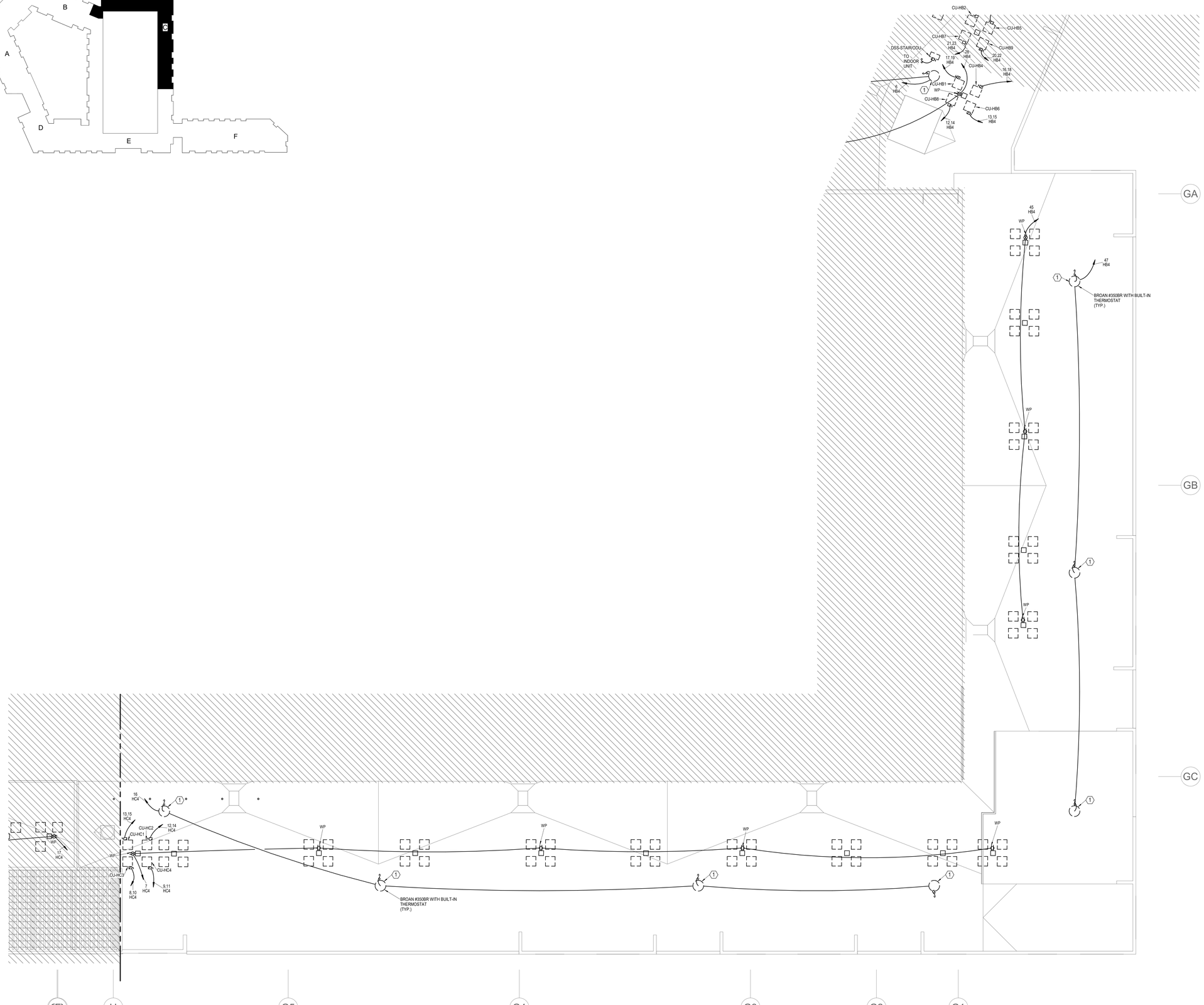
SHEET TITLE

BUILDING C FOURTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.34C





1 **ROOF PLAN C**
POWER
1/8" = 1'-0"

NORTH

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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10. ALL DISC FIXTURES ARE TYPE A UNO
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    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(E) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN.
LOWER LEVEL ONLY
(1) BROAN #350BR WITH BUILT-IN THERMOSTAT.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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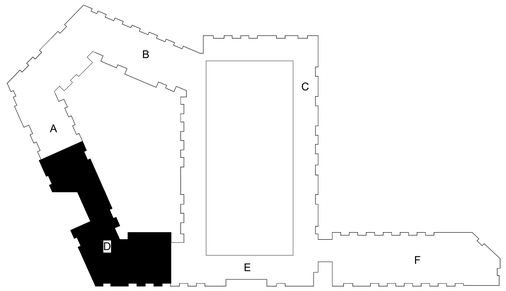
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN C - ELECTRICAL

SHEET NUMBER

E1.35C



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.
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8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
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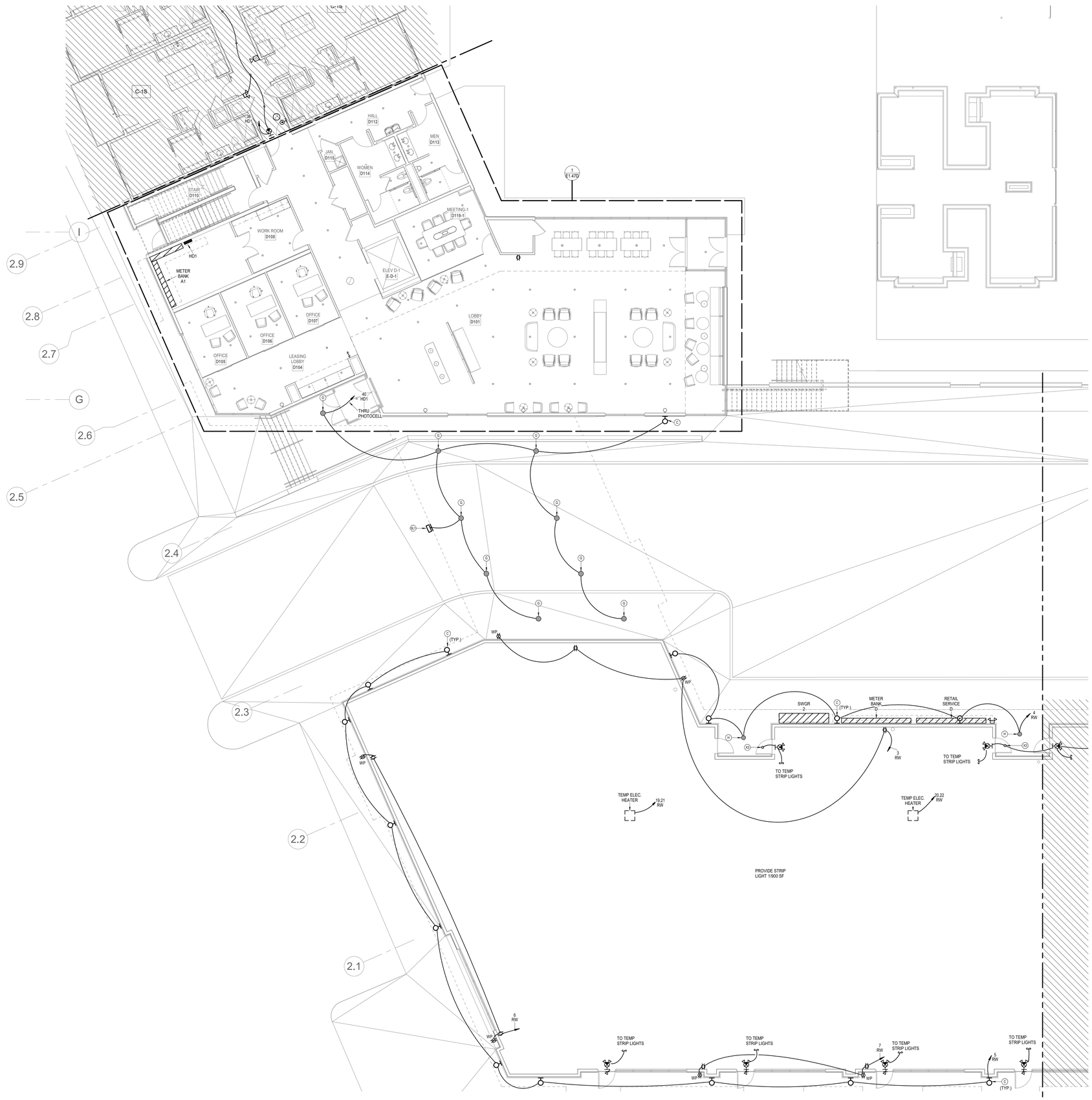
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



1 BUILDING D FIRST FLOOR PLAN

POWER

1/8" = 1'-0"

NORTH

7/25/2022 12:04:20 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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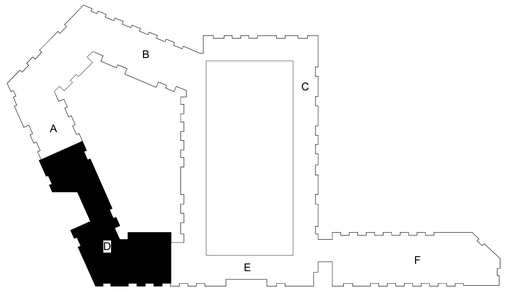
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D FIRST FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.41D



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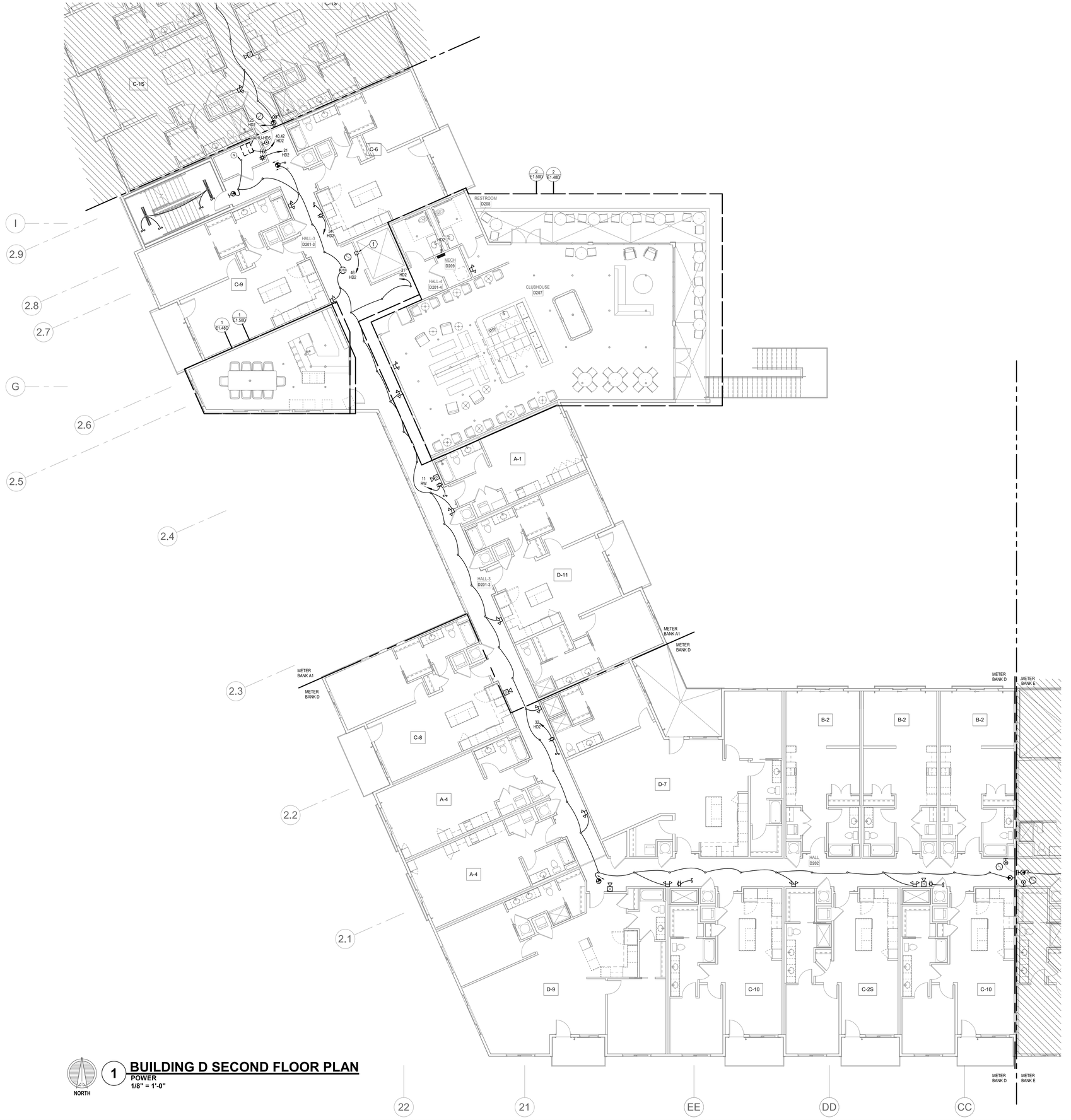
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



NORTH

1 BUILDING D SECOND FLOOR PLAN

POWER
1/8" = 1'-0"

7/25/2022 12:04:24 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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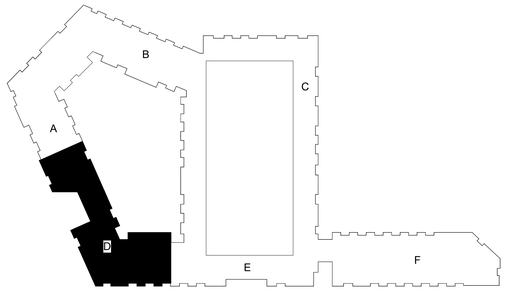
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D SECOND FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.42D



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. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL ▼ ◐ ▼ FIXTURES ARE TYPE X1 UNO
    ALL ▶ FIXTURES ARE TYPE X2 UNO
    ALL ⩛ FIXTURES ARE TYPE X3 UNO
    ALL ▽ FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING D THIRD FLOOR PLAN
POWER
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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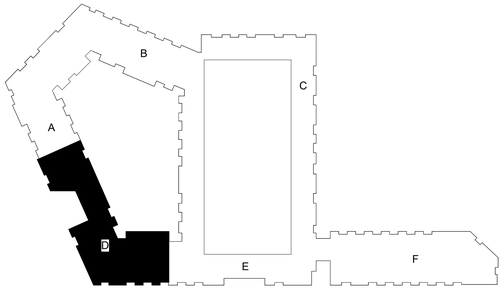
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D THIRD FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.43D



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.
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10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

1 **BUILDING D FOURTH FLOOR PLAN**
POWER
1/8" = 1'-0"

NORTH

7/25/2022 12:04:31 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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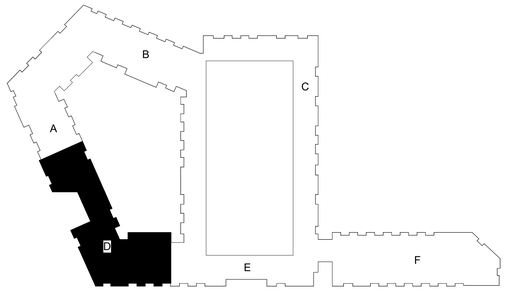
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D FOURTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.44D



NOTES:

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    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 BUILDING D FIFTH FLOOR PLAN

POWER
1/8" = 1'-0"

7/25/2022 12:04:35 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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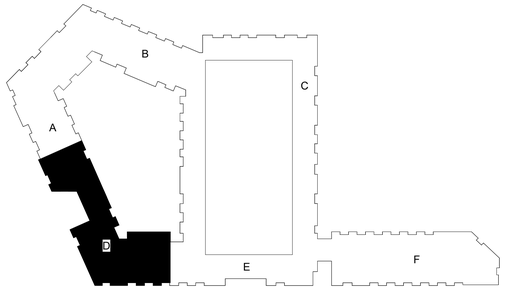
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D FIFTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.45D



NOTES:

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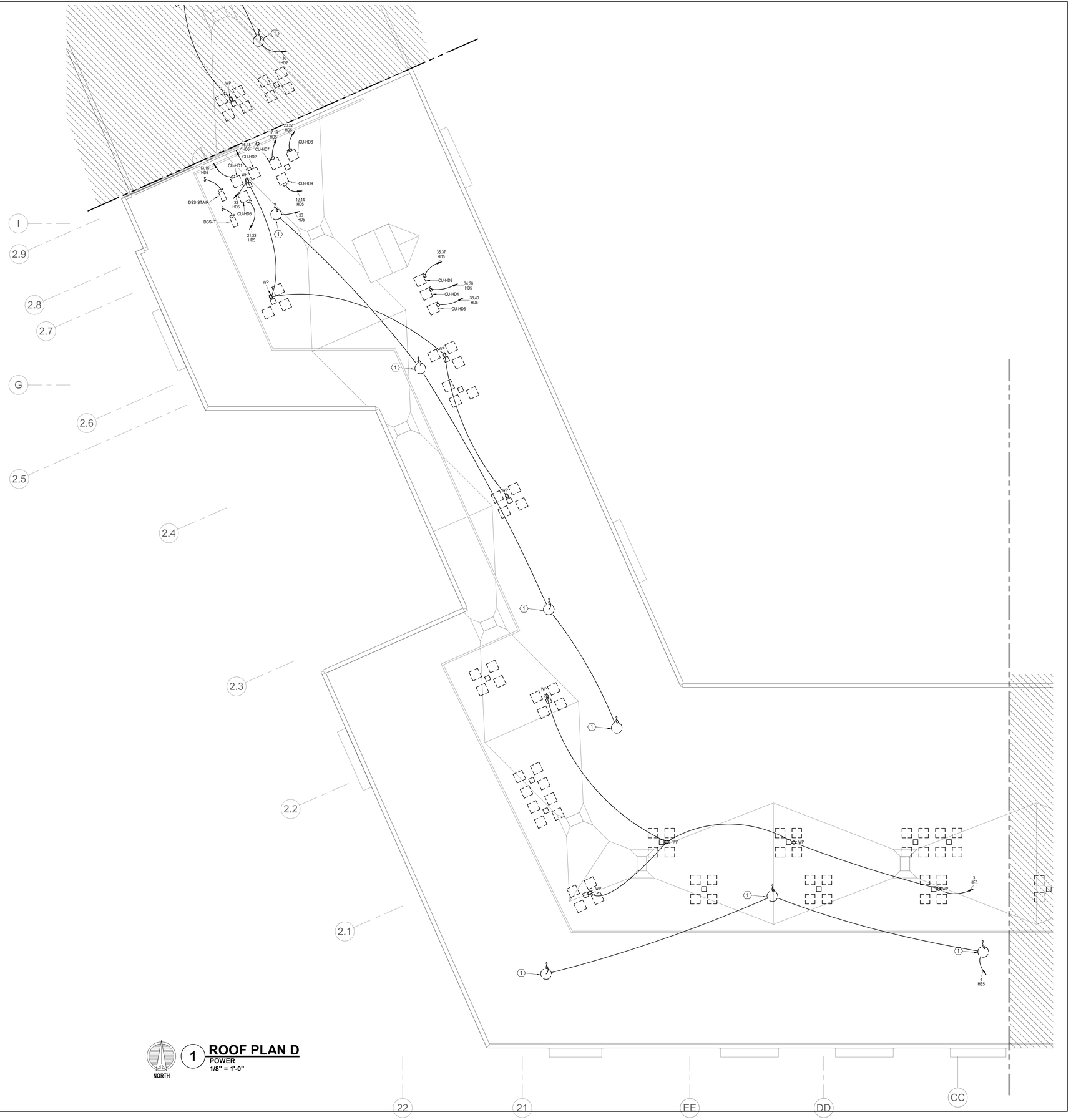
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(17) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. BREAK ACROSS WITH BUILT-IN THERMOSTAT. CONNECTED WITH FIRE ALARM SYSTEM.



1 **ROOF PLAN D**
POWER
1/8" = 1'-0"

NORTH

7/25/2022 12:04:38 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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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
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN D - ELECTRICAL

SHEET NUMBER

E1.46D

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.
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8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 PARTIAL FLOOR PLAN - LOBBY

POWER

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER A-2007018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D
FIRST FLOOR
PARTIAL PLAN -
ELECTRICAL

SHEET NUMBER

E1.47D

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.
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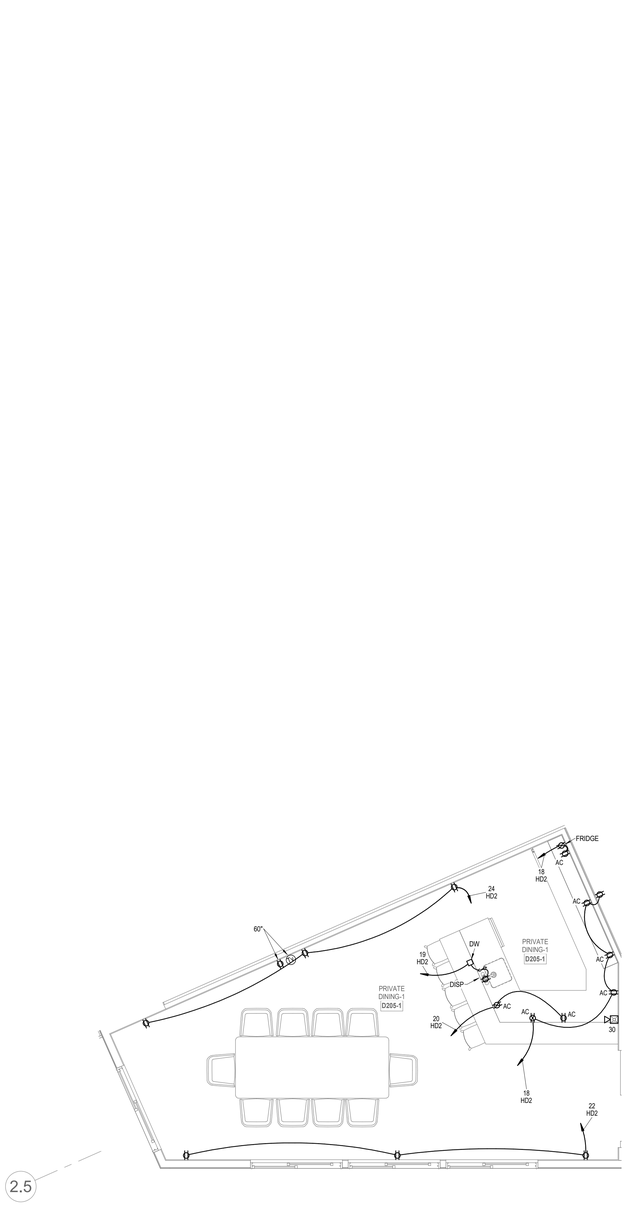
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

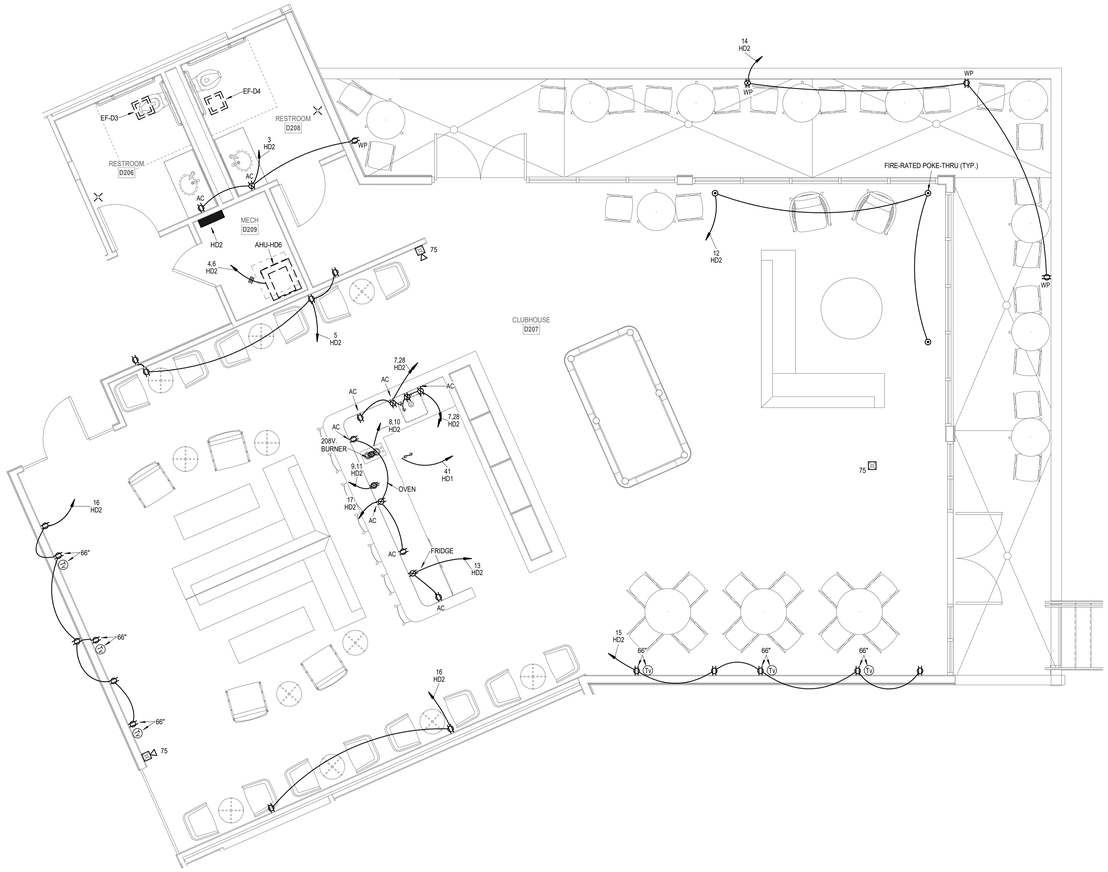


NORTH

1 PARTIAL FLOOR PLAN - PRIVATE DINING

POWER

1/4" = 1'-0"



NORTH

2 OVERALL 2ND FLOOR PLAN - CLUBHOUSE

POWER

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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CONSULTING ENGINEERS
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9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D SECOND FLOOR PARTIAL PLAN - ELECTRICAL

SHEET NUMBER

E1.48D

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.
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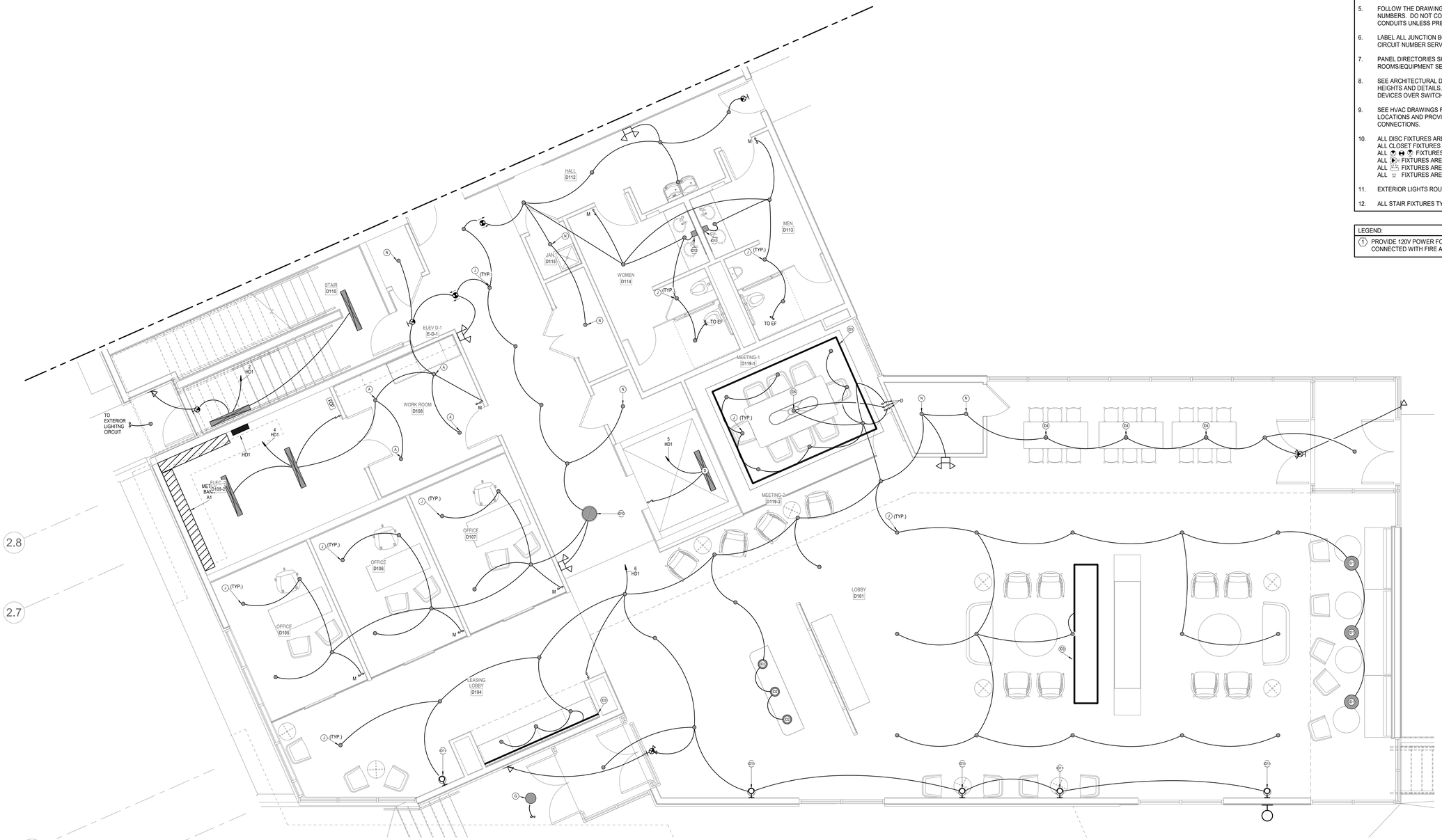
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



NORTH

1 PARTIAL FLOOR PLAN - LOBBY

LIGHTING

1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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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. 2104043

SHEET TITLE

BUILDING D FIRST FLOOR PARTIAL PLAN - LIGHTING

SHEET NUMBER

E1.49D

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. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

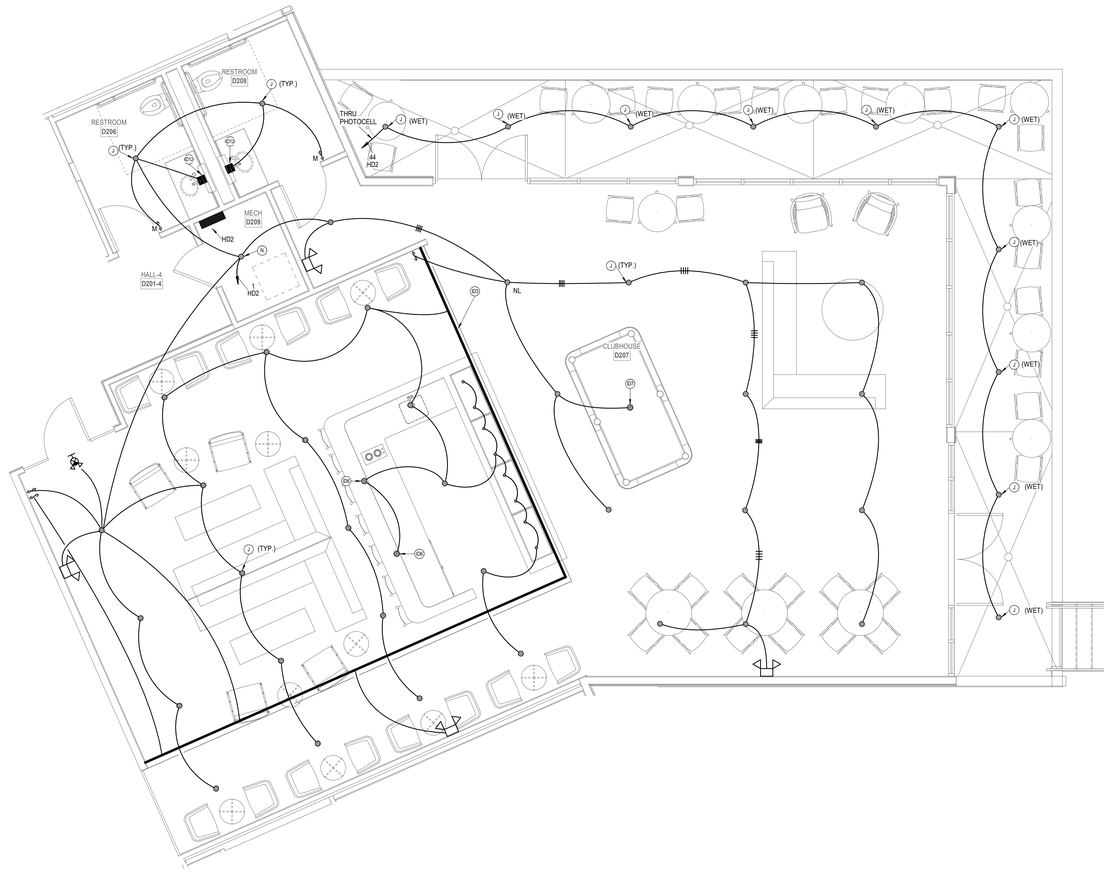
LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.

NORTH

1 PARTIAL FLOOR PLAN - PRIVATE DINING

LIGHTING
1/4" = 1'-0"



NORTH

2 OVERALL 2ND FLOOR PLAN - CLUBHOUSE

LIGHTING
1/4" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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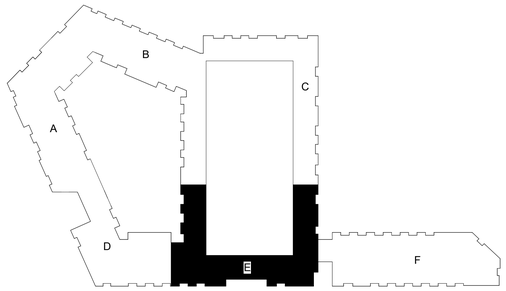
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING D SECOND FLOOR PARTIAL PLAN - LIGHTING

SHEET NUMBER

E1.50D



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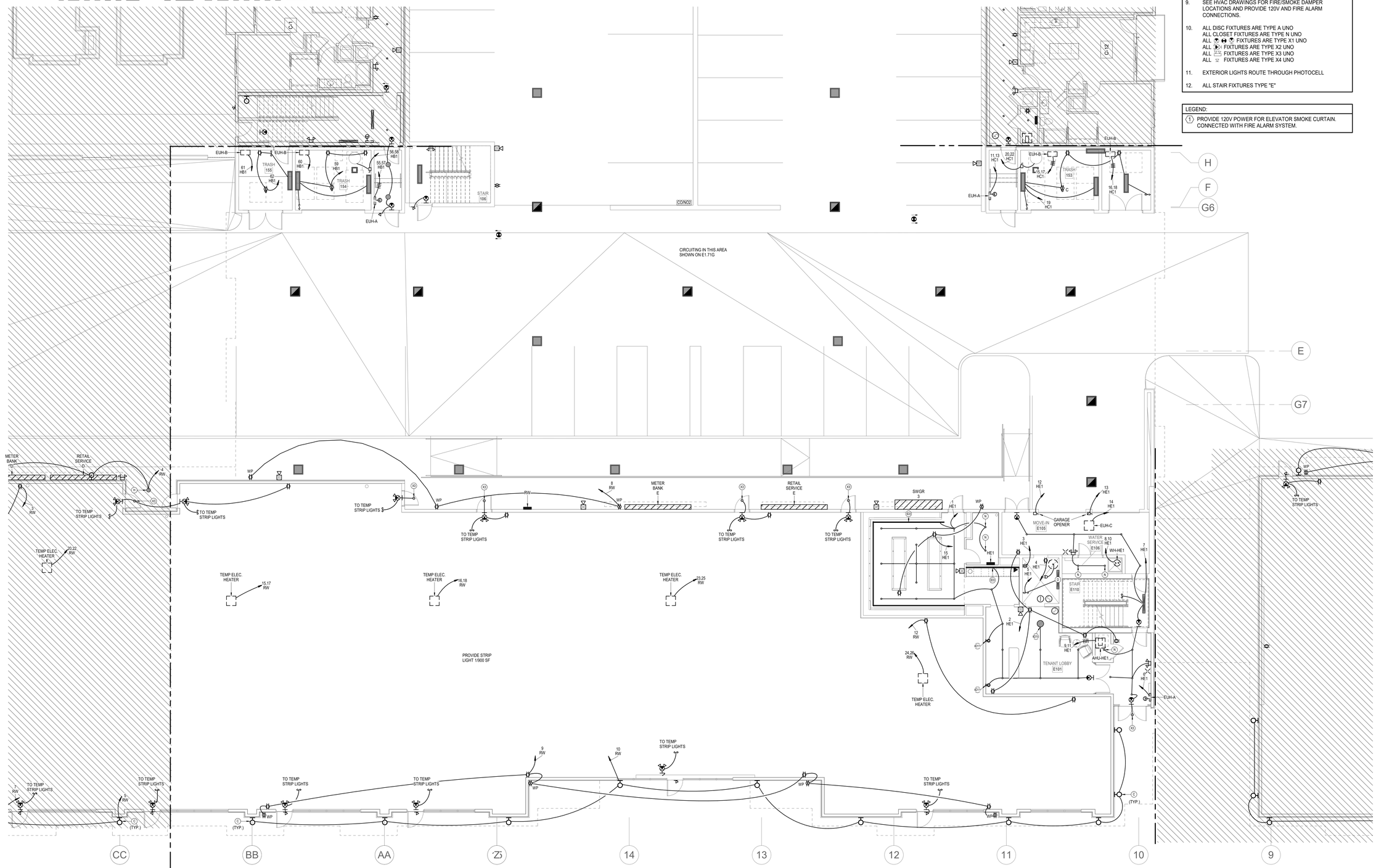
LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



NORTH

1 BUILDING E FIRST FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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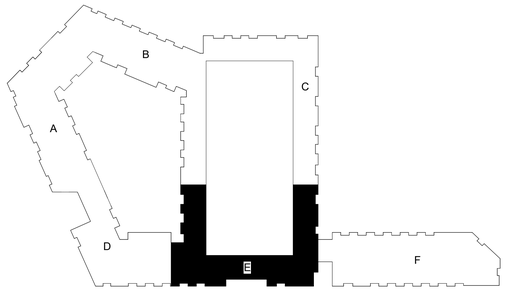
Email: lsapa@lsapa.com
LSA PROJECT NO. 210443

SHEET TITLE

BUILDING E FIRST FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.51E



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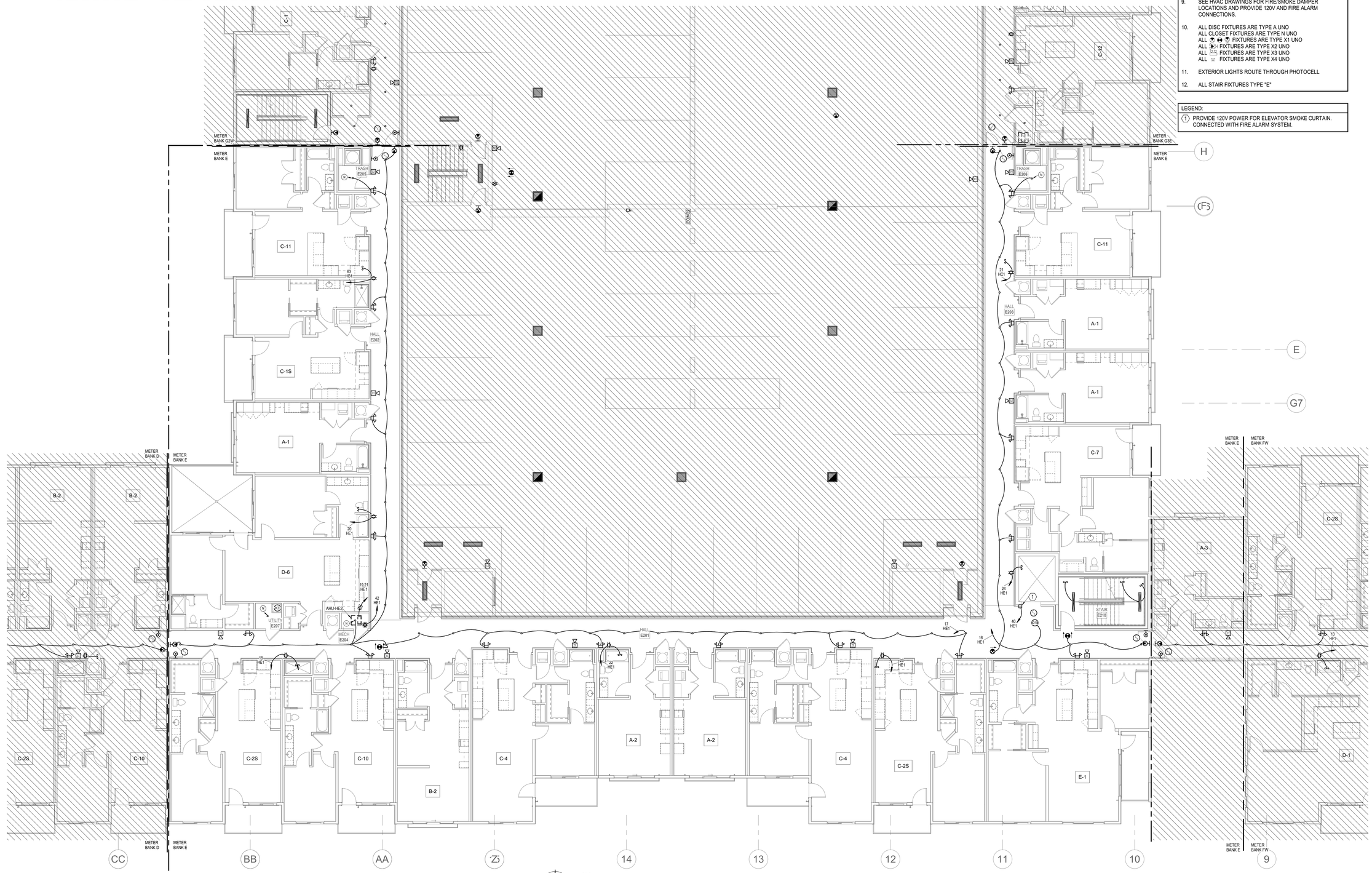
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



1 BUILDING E SECOND FLOOR PLAN

POWER

1/8" = 1'-0"

NORTH

7/25/2022 12:04:57 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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2	07.11.22	ADDENDUM 1
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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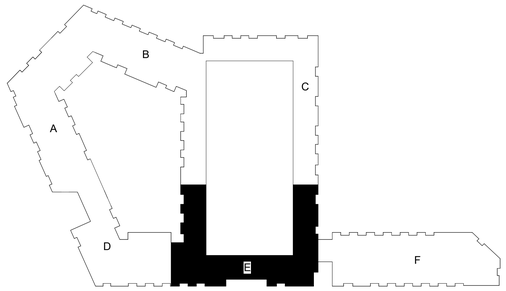
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING E SECOND FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.52E



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LEGEND:

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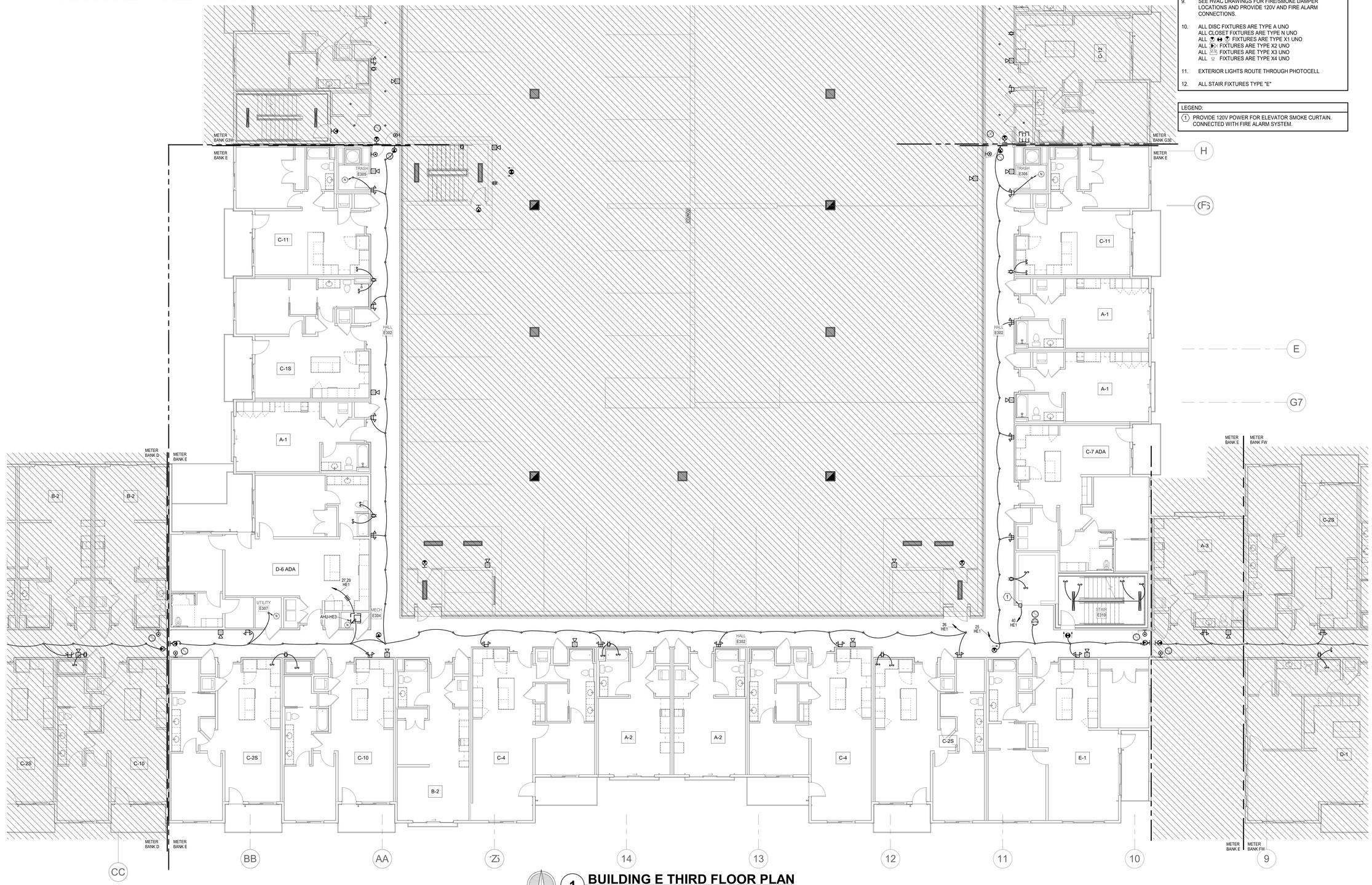

NORTH

1 BUILDING E THIRD FLOOR PLAN

POWER

1/8" = 1'-0"

7/25/2022 12:05:01 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010037511
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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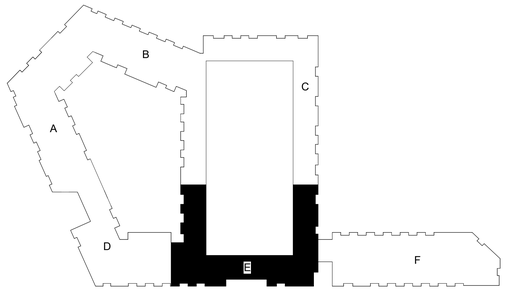
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING E THIRD FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.53E



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LEGEND:

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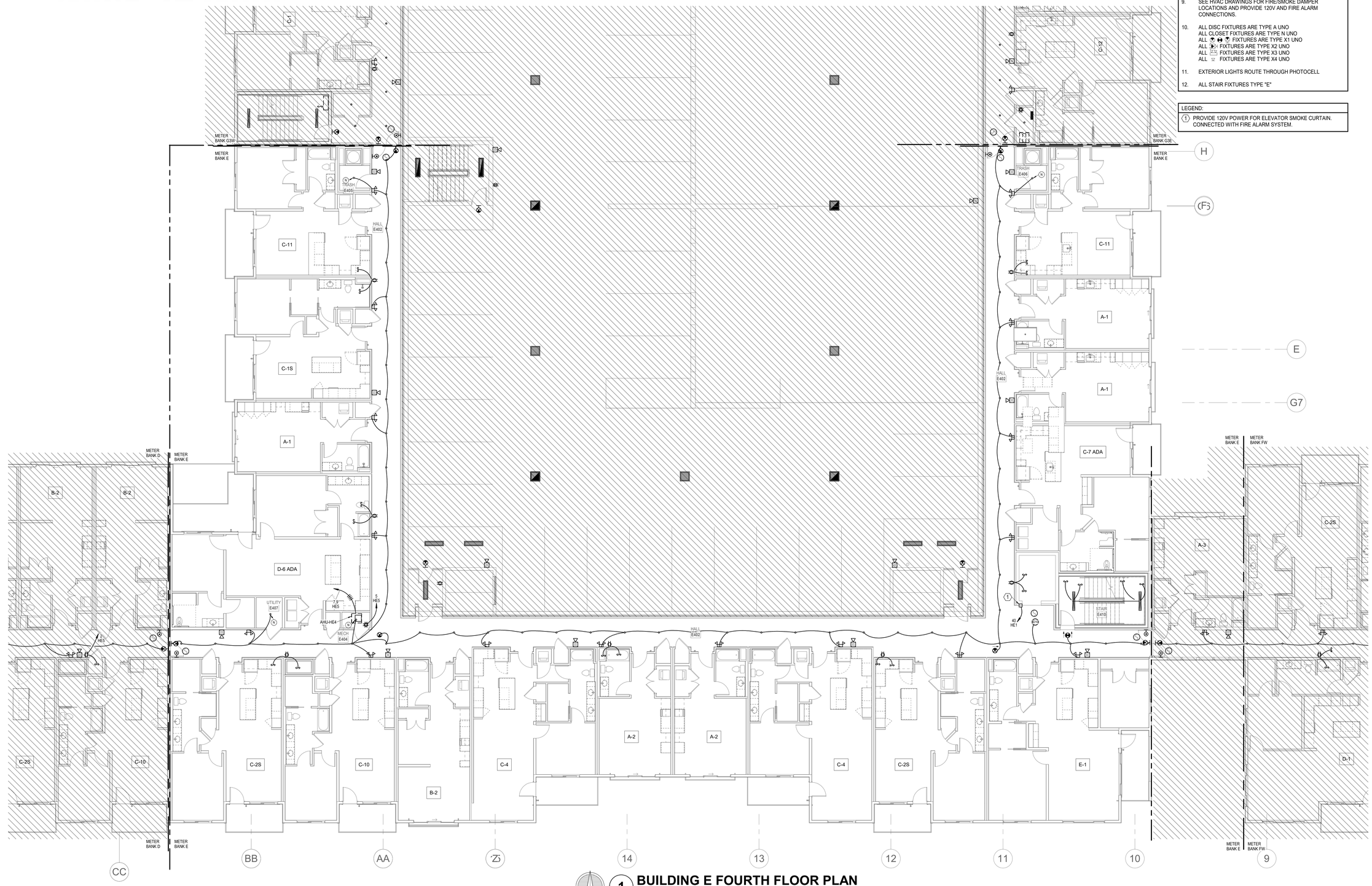

NORTH

1 BUILDING E FOURTH FLOOR PLAN

POWER

1/8" = 1'-0"

7/25/2022 12:05:05 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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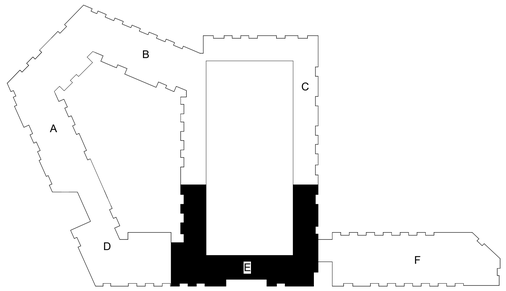
SHEET TITLE

BUILDING E FOURTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.54E



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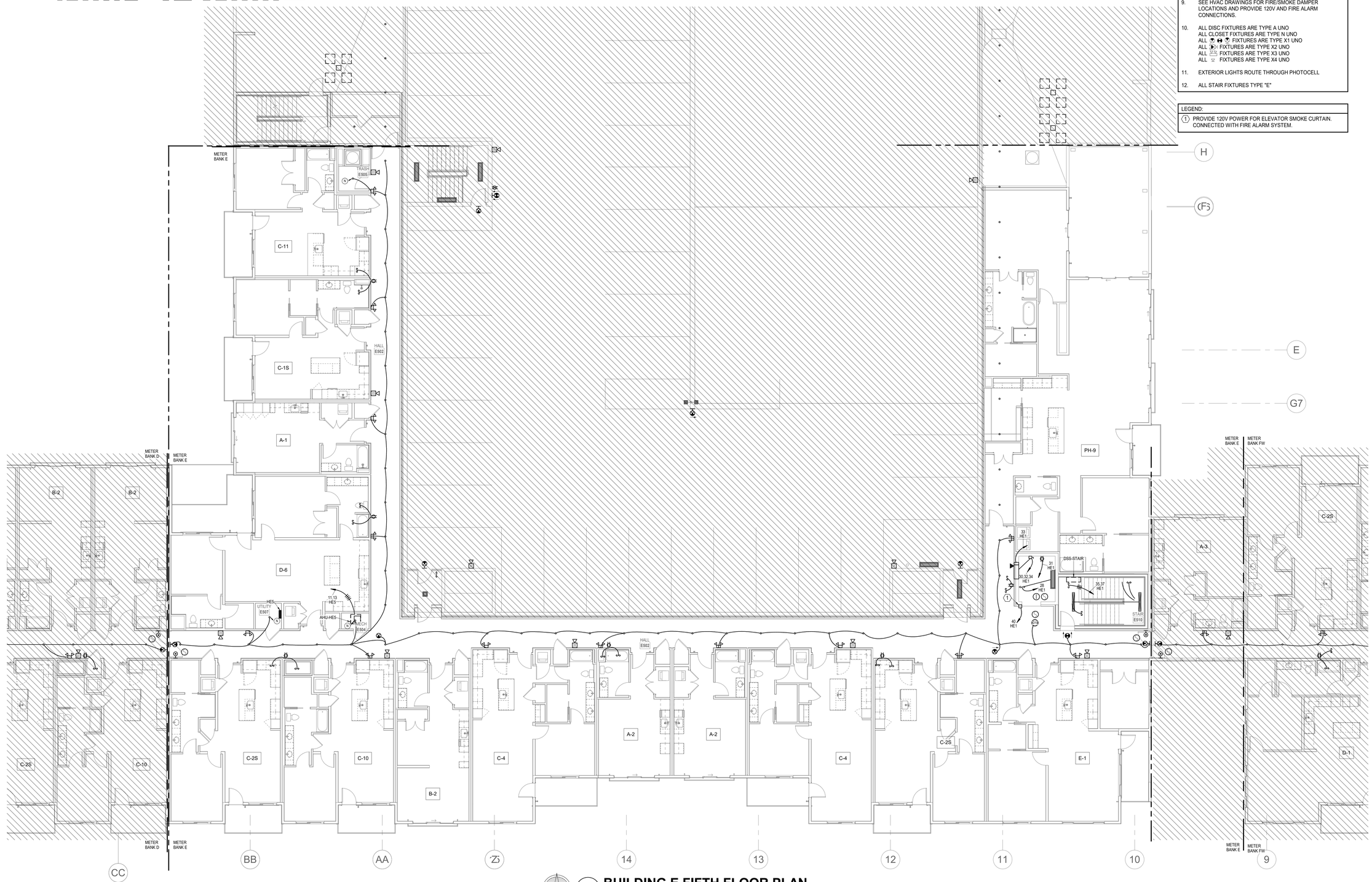

1 BUILDING E FIFTH FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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2	07.11.22	ADDENDUM 1
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007021751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
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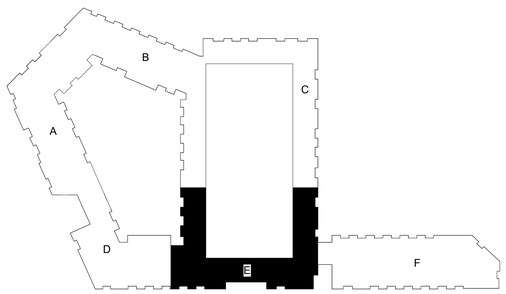
SHEET TITLE

BUILDING E FIFTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.55E



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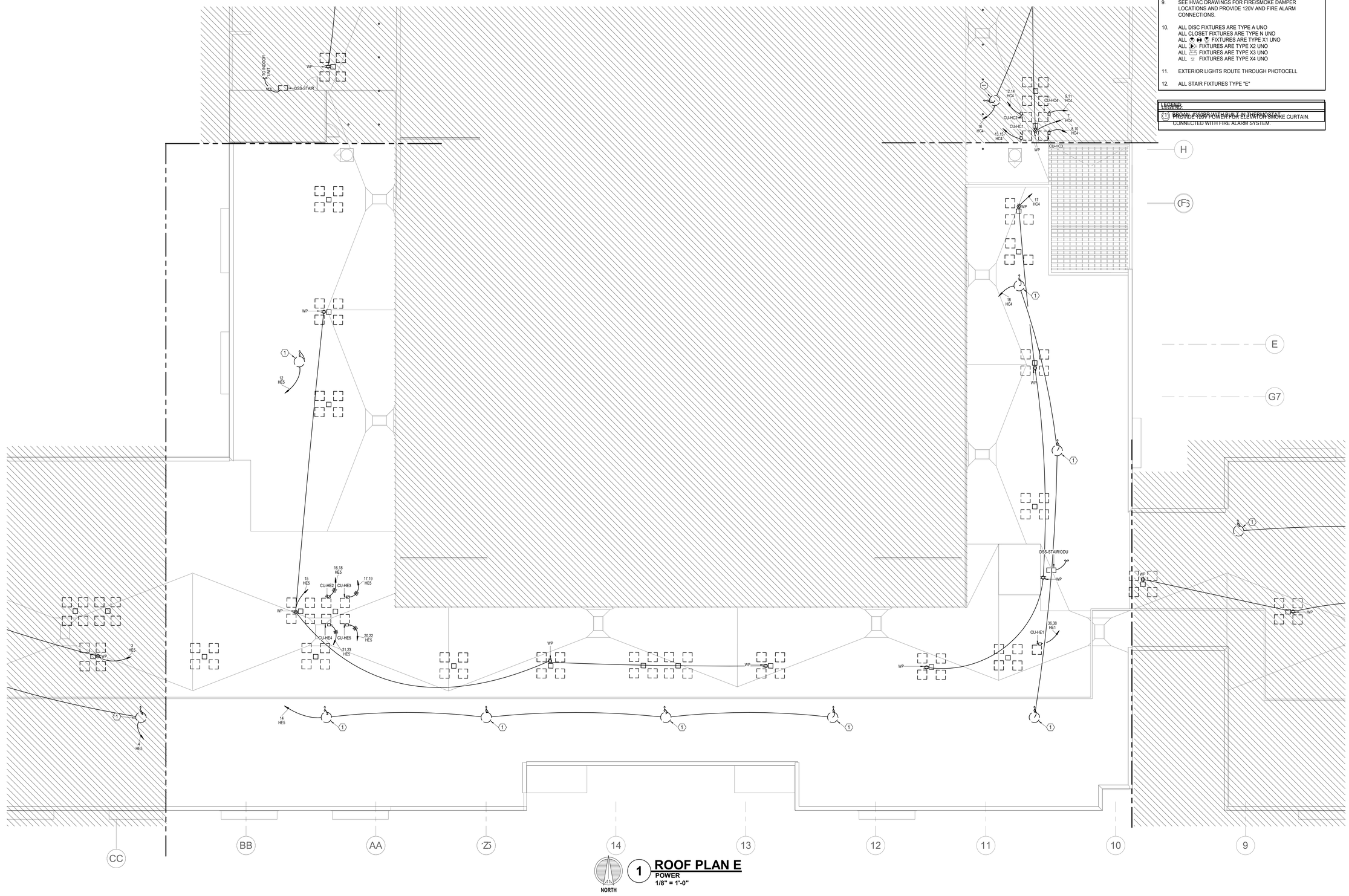
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) BROAN #350RP WITH BUILT IN THERMOSTAT. PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



NORTH

1 ROOF PLAN E

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

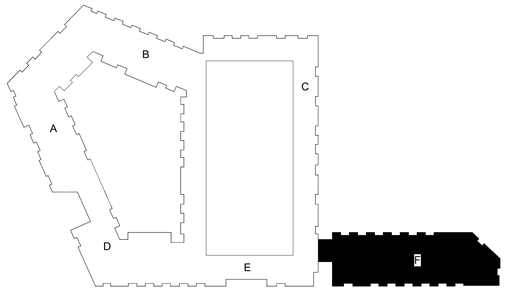
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN E - ELECTRICAL

SHEET NUMBER

E1.56E

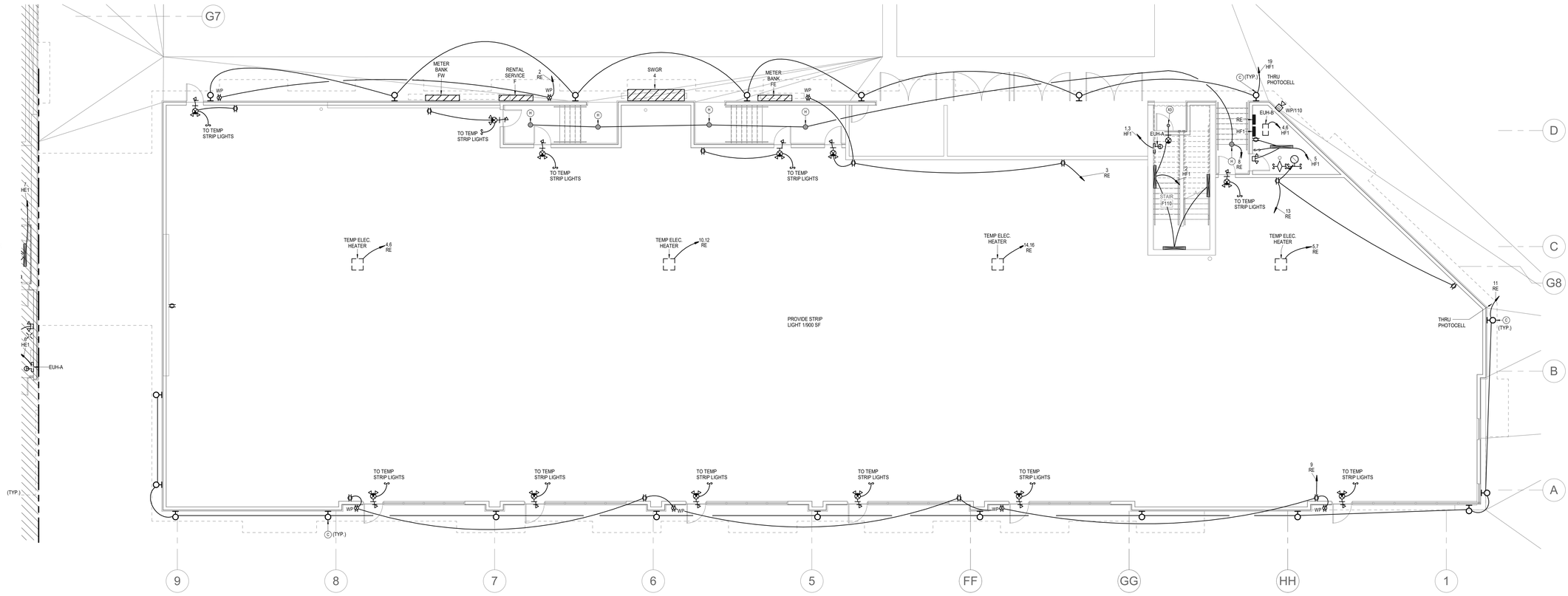


NOTES:

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. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.
9. SEE HVAC DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS AND PROVIDE 120V AND FIRE ALARM CONNECTIONS.
10. ALL DISC FIXTURES ARE TYPE A UNO
    ALL CLOSET FIXTURES ARE TYPE N UNO
    ALL FIXTURES ARE TYPE X1 UNO
    ALL FIXTURES ARE TYPE X2 UNO
    ALL FIXTURES ARE TYPE X3 UNO
    ALL FIXTURES ARE TYPE X4 UNO
11. EXTERIOR LIGHTS ROUTE THROUGH PHOTOCELL
12. ALL STAIR FIXTURES TYPE "E"

LEGEND:

(1) PROVIDE 120V POWER FOR ELEVATOR SMOKE CURTAIN. CONNECTED WITH FIRE ALARM SYSTEM.



1 BUILDING F FIRST FLOOR PLAN

POWER

1/8" = 1'-0"

NORTH

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2010021252
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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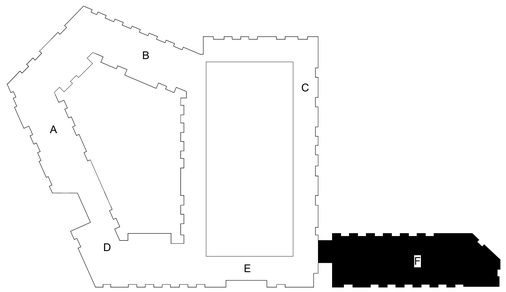
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FIRST FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.61F



NOTES:

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LEGEND:

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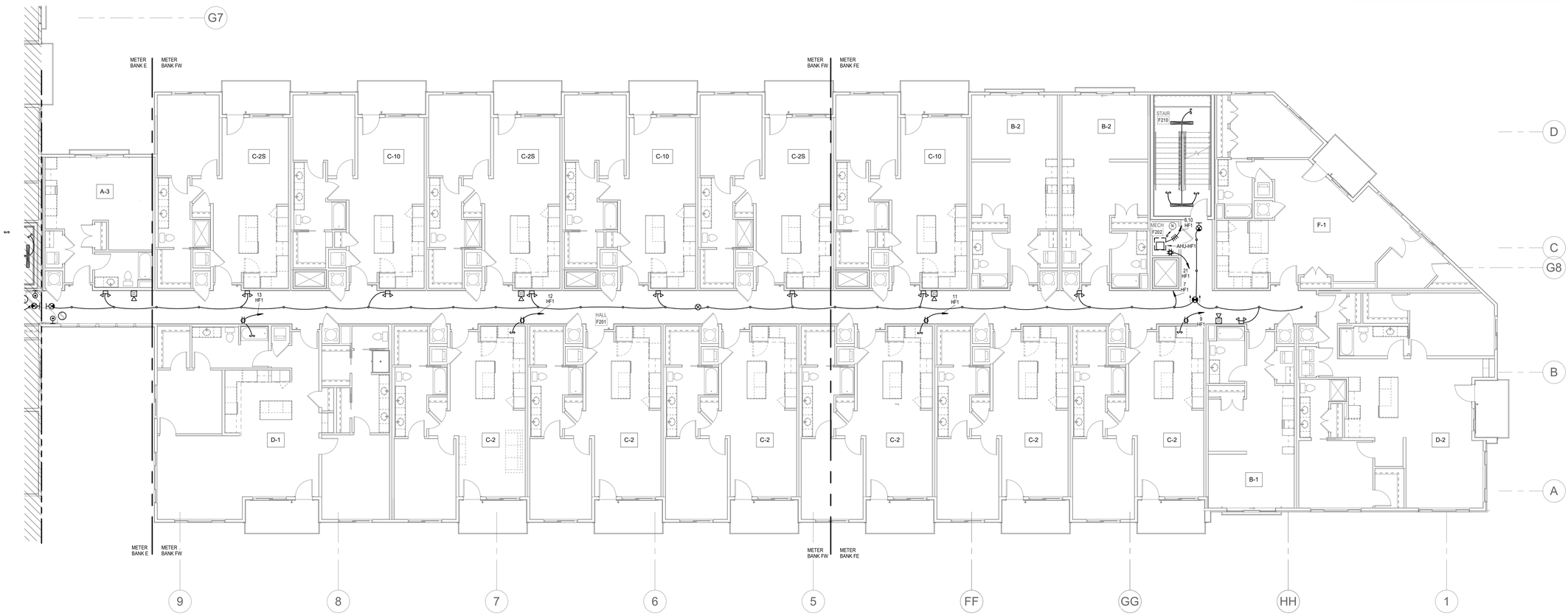

NORTH

1 BUILDING F SECOND FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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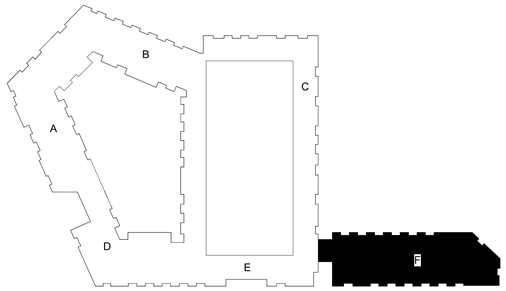
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F SECOND FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.62F



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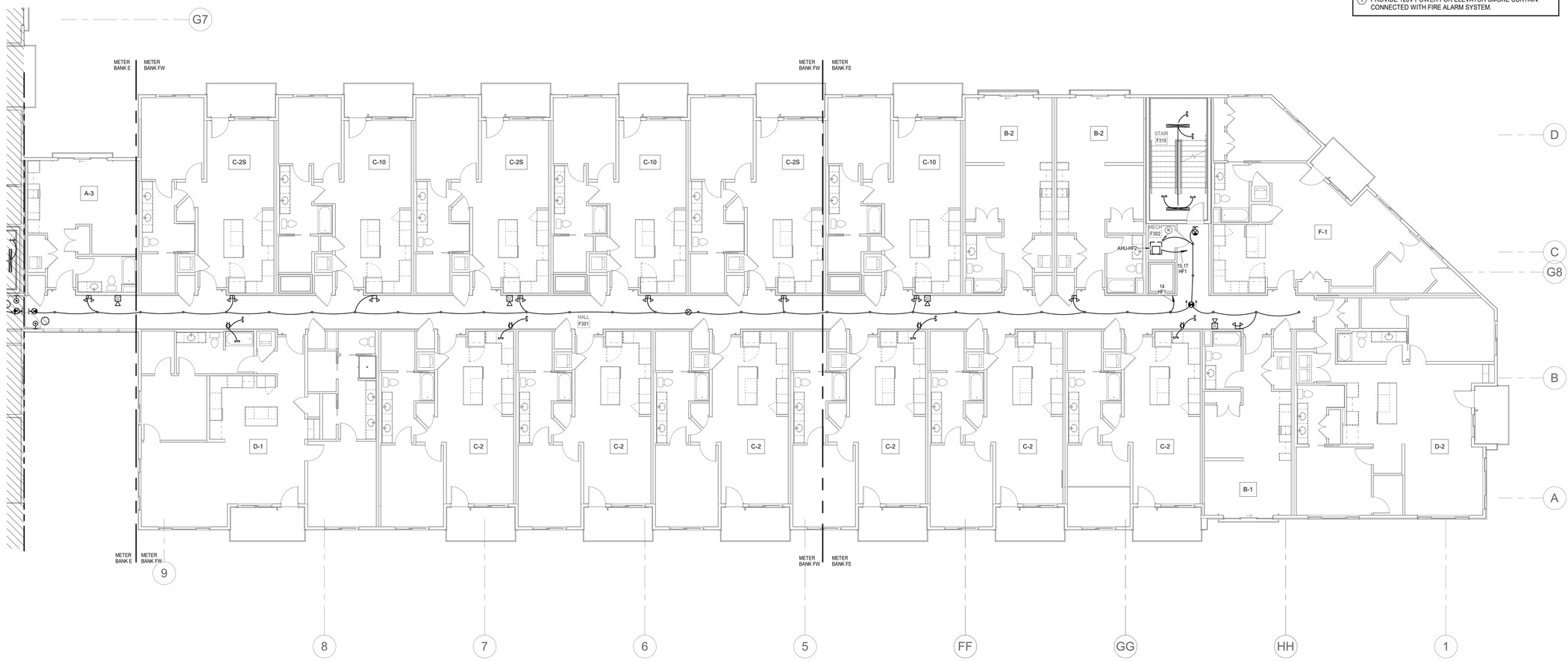

NORTH

1 BUILDING F THIRD FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2007018010
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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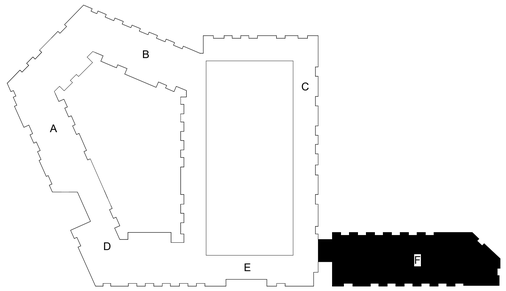
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F THIRD FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.63F



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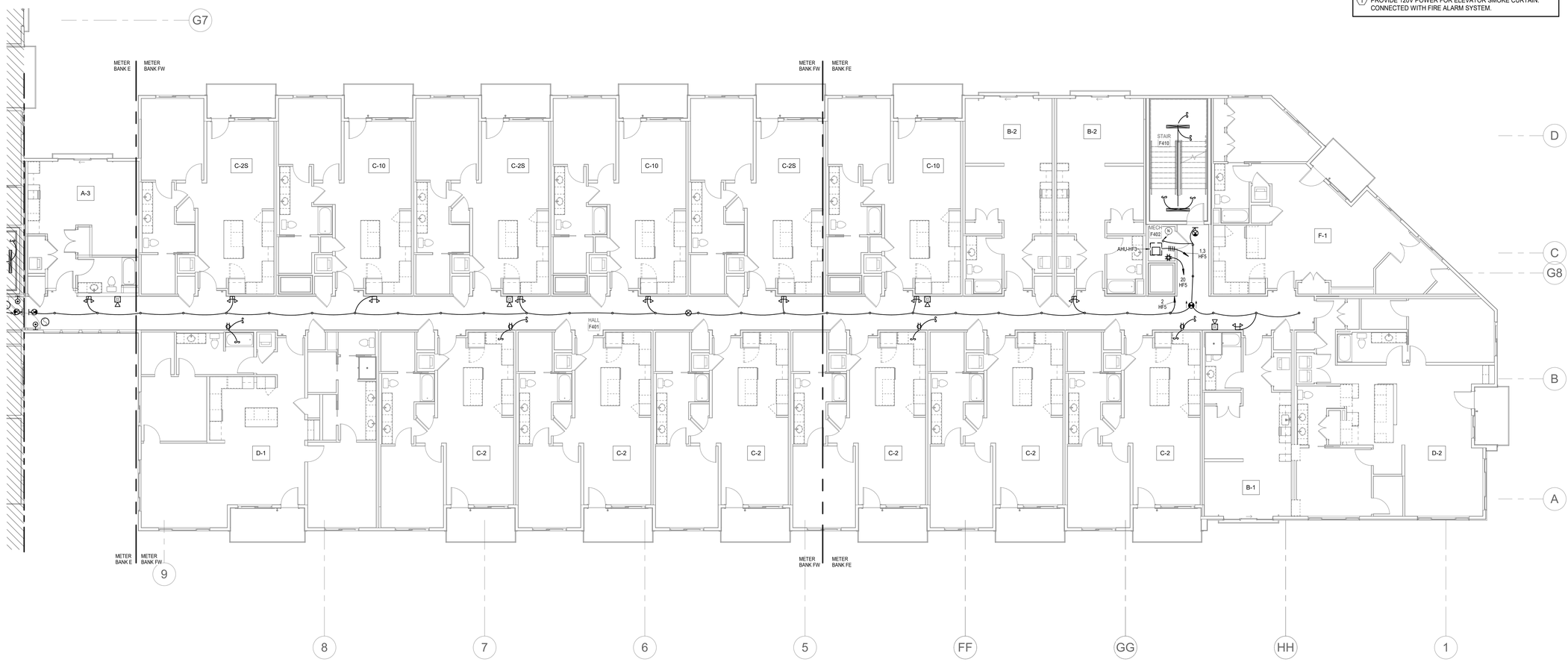

NORTH

1 BUILDING F FOURTH FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Overland Park, Kansas 66210
Telephone: (785) 233-3232
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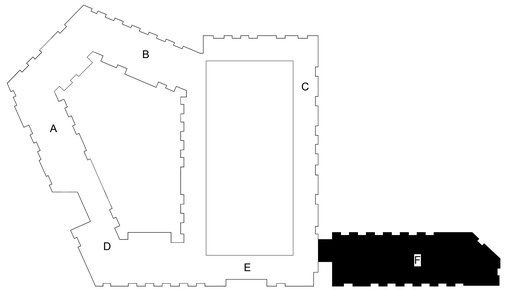
LSA PROJECT NO. 2104043

SHEET TITLE

BUILDING F FOURTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.64F



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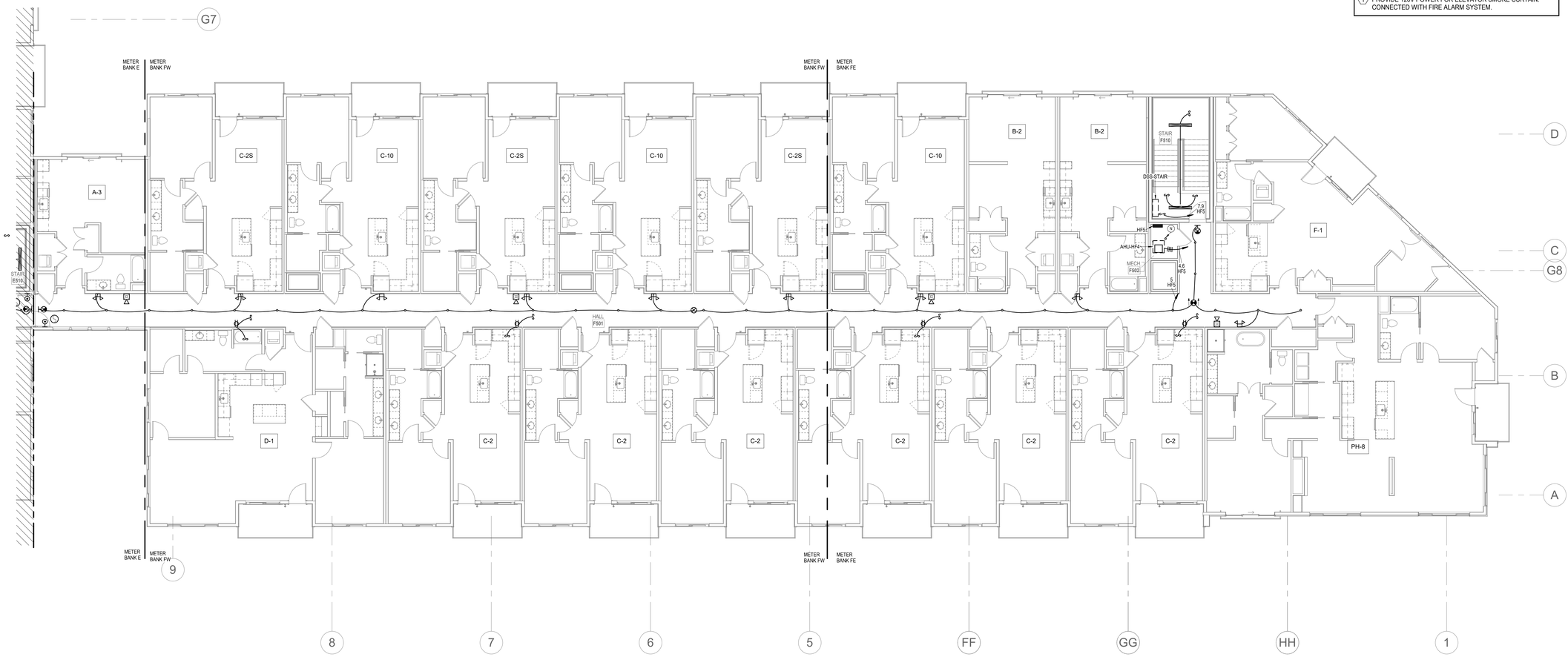

NORTH

1 BUILDING F FIFTH FLOOR PLAN

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2007018752
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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BUILDING F FIFTH FLOOR PLAN - ELECTRICAL

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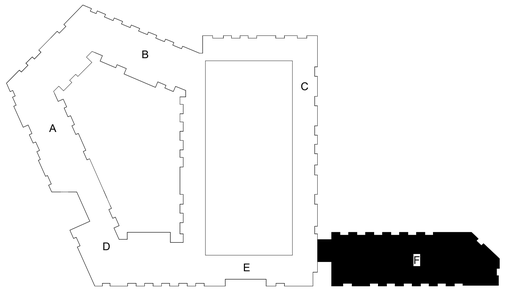
E1.65F



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LEGEND:

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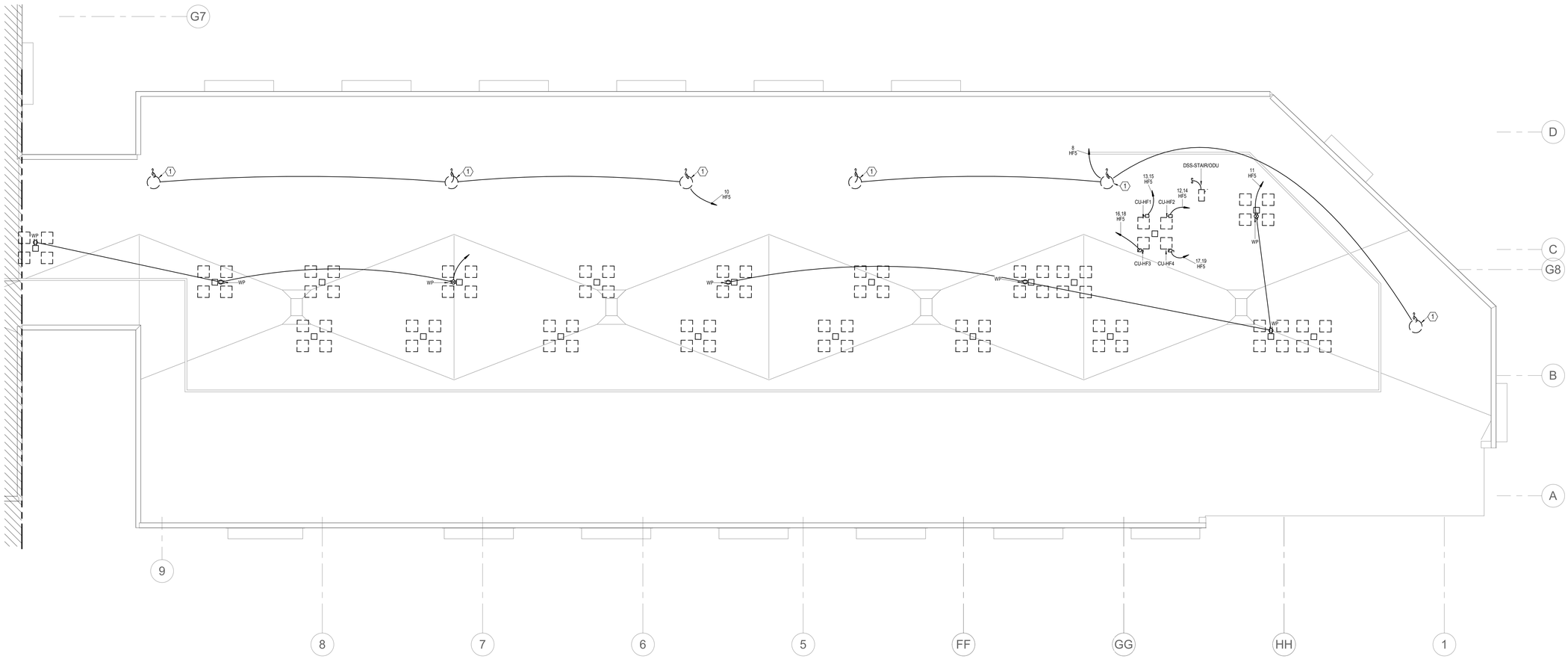

NORTH

1 ROOF PLAN F

POWER

1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2006018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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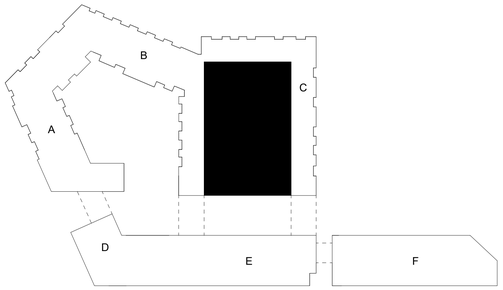
LSA PROJECT NO. 2104043

SHEET TITLE

ROOF PLAN F - ELECTRICAL

SHEET NUMBER

E1.66F



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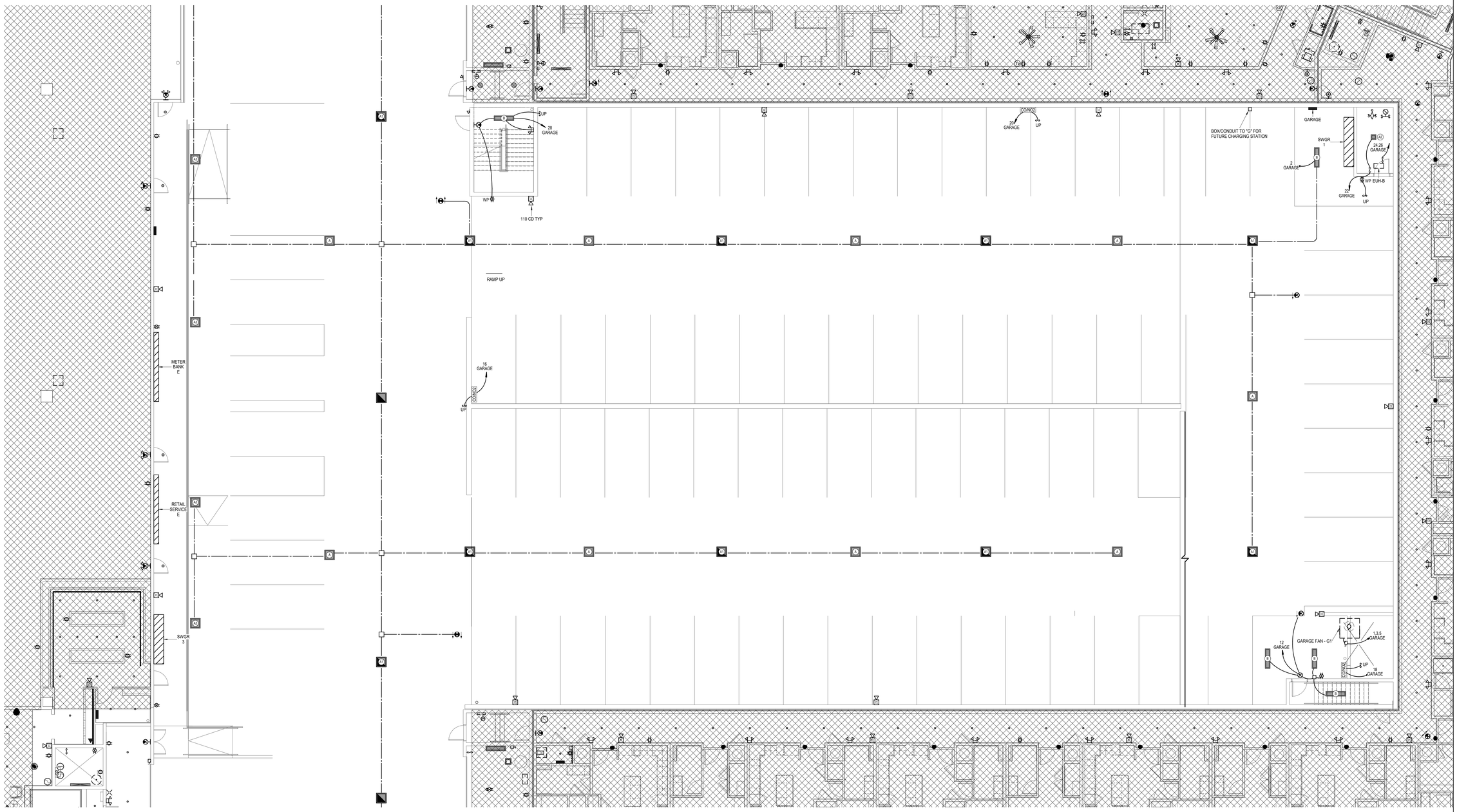


NORTH

1 **GARAGE GROUND LEVEL**
POWER
1/8" = 1'-0"

7/25/2022 12:05:36 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010019744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

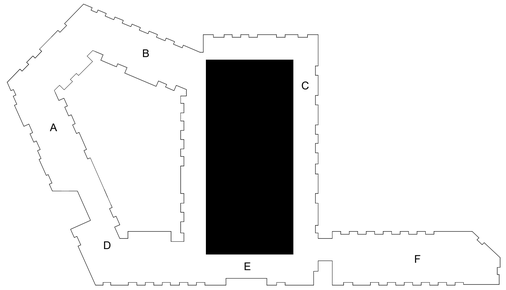
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8626 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210403

SHEET TITLE

GARAGE FIRST FLOOR PLAN - ELECTRICAL

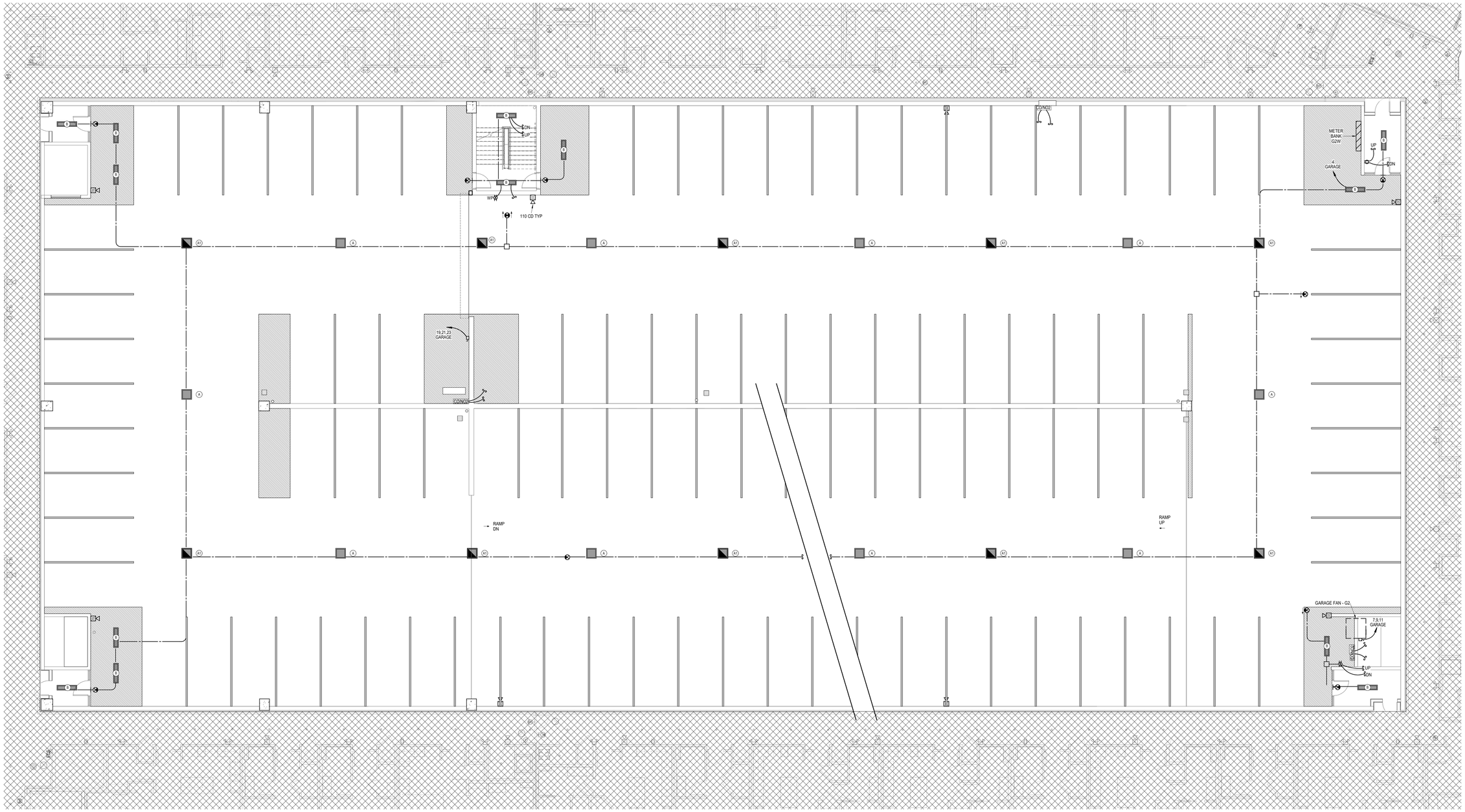
SHEET NUMBER

E1.71G



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. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
6. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.



NORTH

1 **GARAGE 2**
POWER
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARMORE
NUMBER 2010021271
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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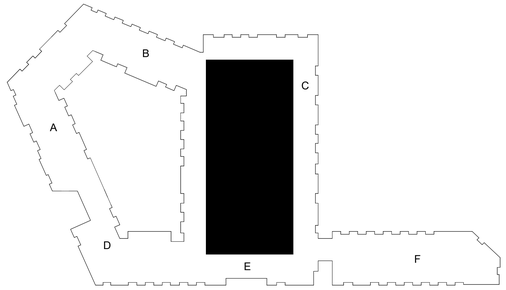
8626 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210404

SHEET TITLE

GARAGE SECOND FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.72G



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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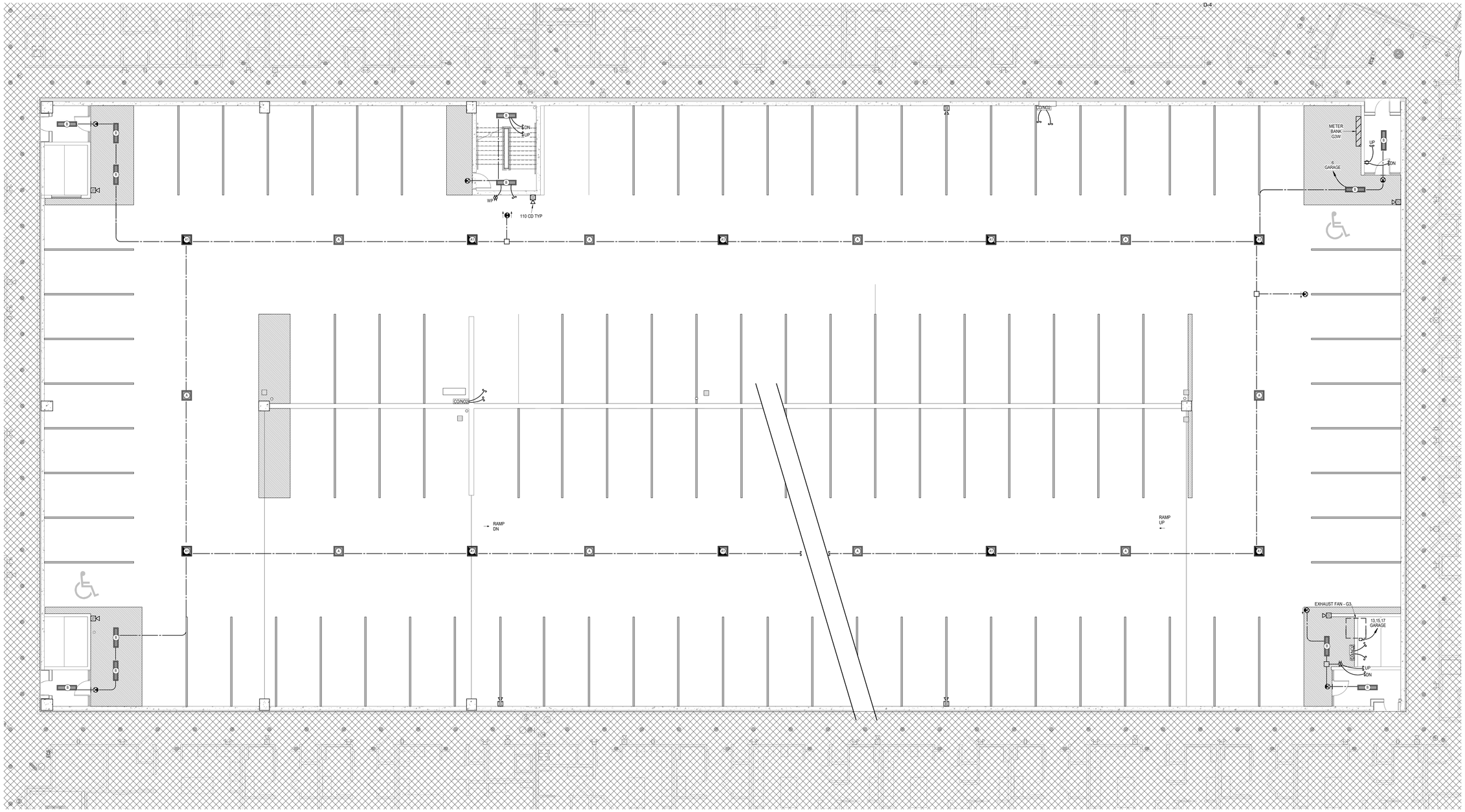
4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
6. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.



NORTH

1 GARAGE 3

POWER

1/8" = 1'-0"

7/25/2022 12:05:44 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010021273
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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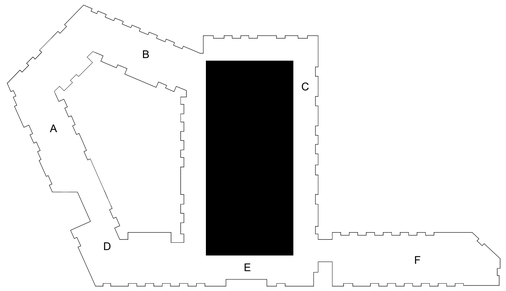
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 210403

SHEET TITLE

GARAGE THIRD FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.73G



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.
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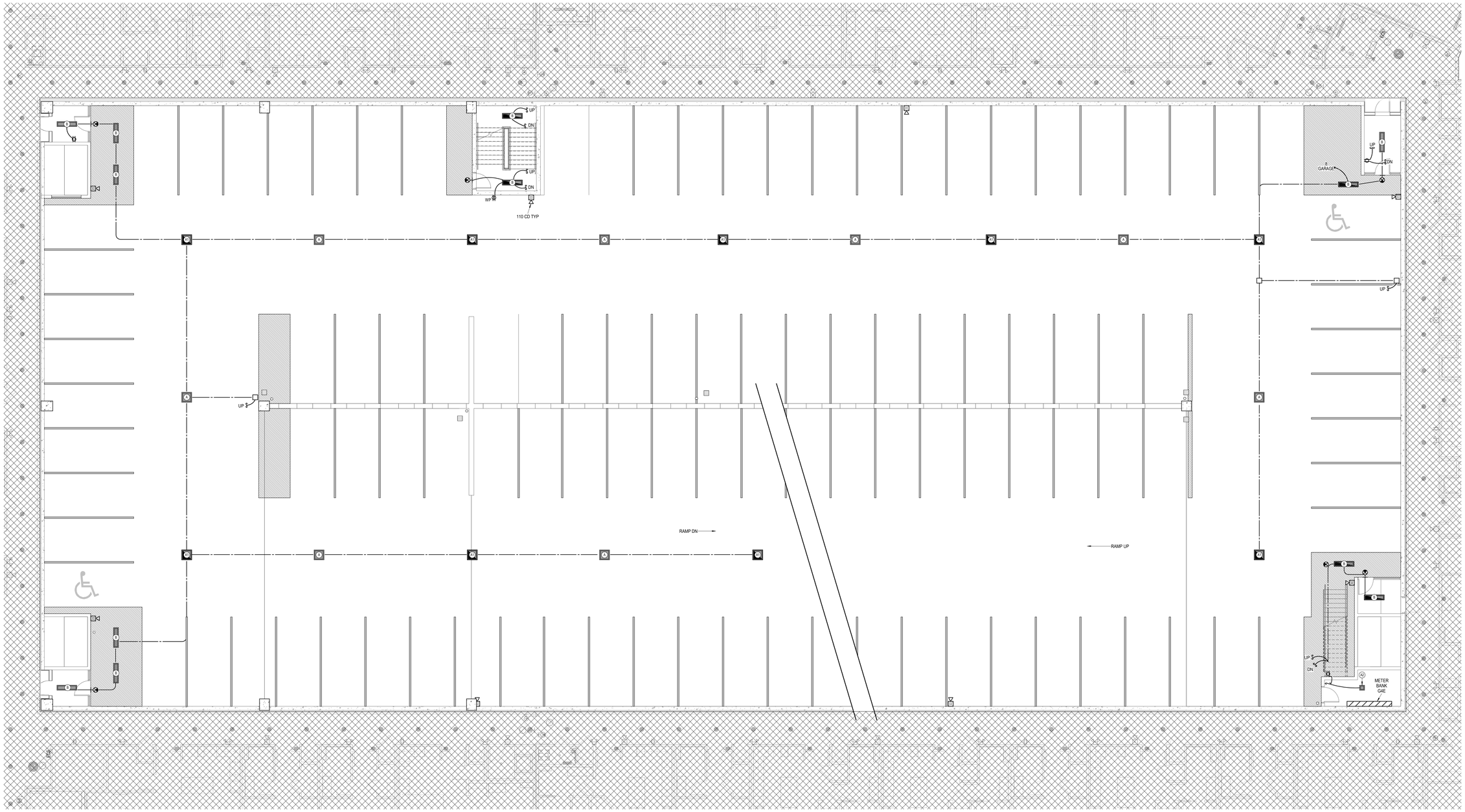
6. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.



NORTH

1 **GARAGE 4**
POWER
1/8" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010035744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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3639 SW Summerfield Drive, Suite A
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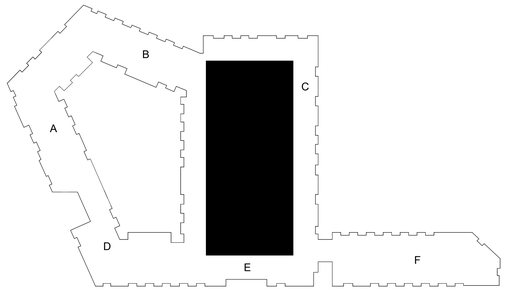
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

GARAGE FOURTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E1.74G



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.
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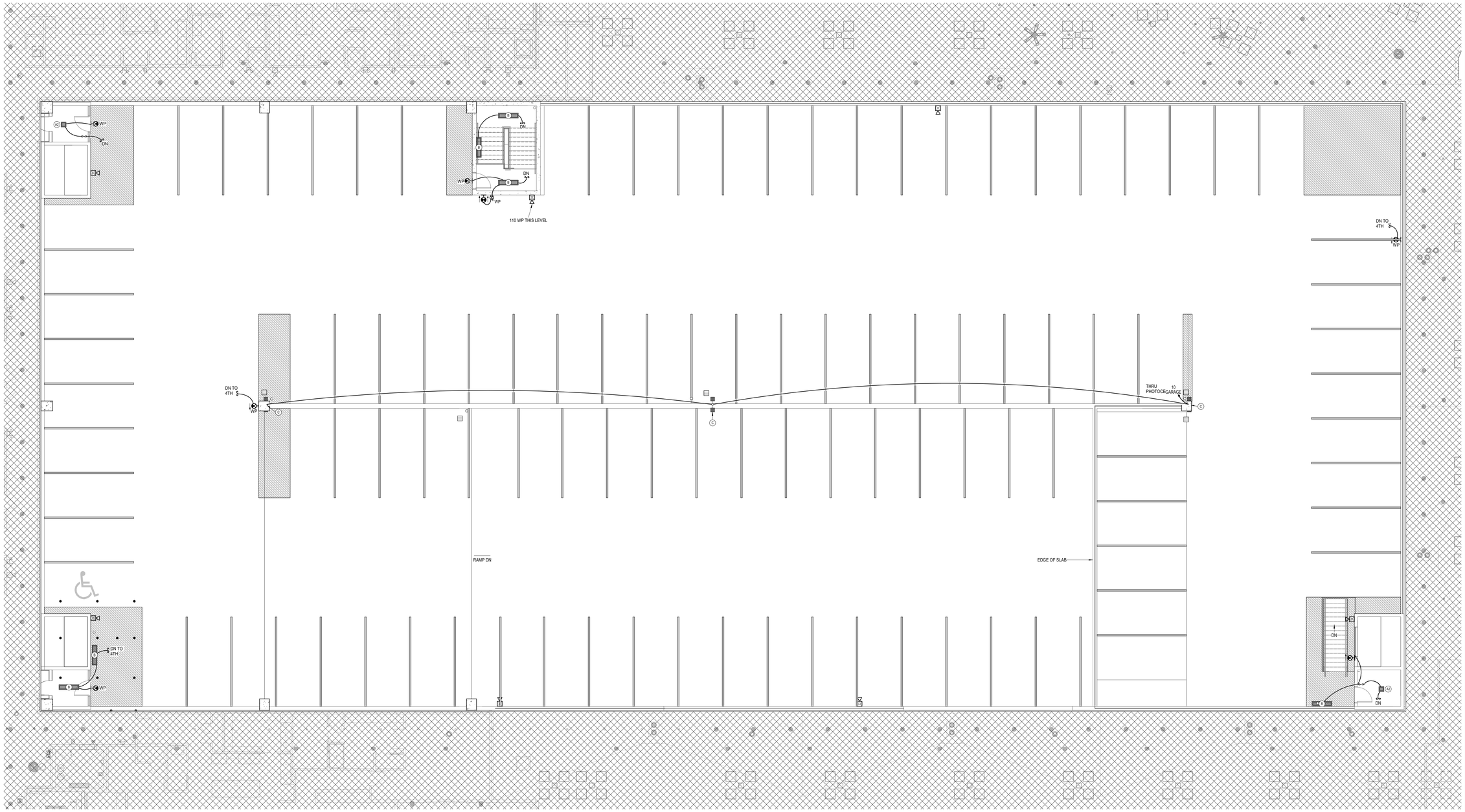
6. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.



NORTH

1 **GARAGE 5**
POWER
1/8" = 1'-0"

7/25/2022 12:05:57 PM | PARAGON STAR NORTH VILLAGE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
1	06.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010020284
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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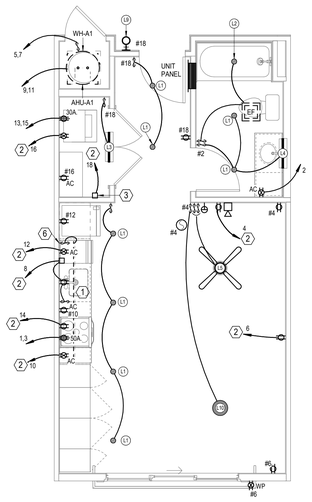
9625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

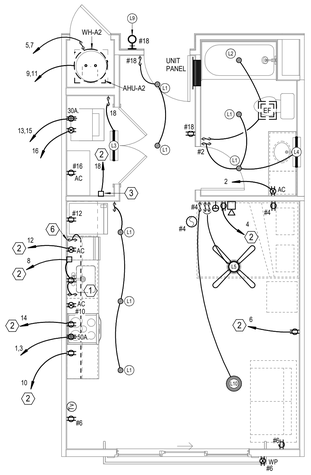
GARAGE FIFTH FLOOR PLAN - ELECTRICAL

SHEET NUMBER

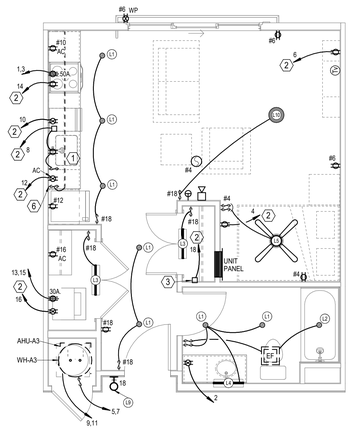
E1.75G



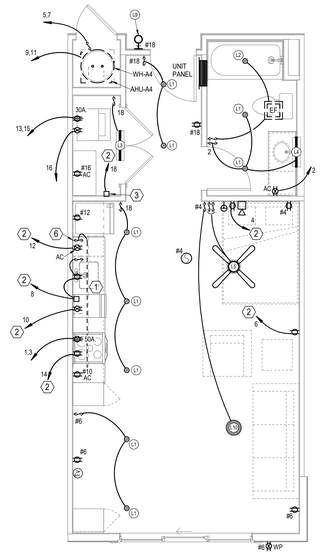
1 TYPICAL UNIT A-1
ELECTRICAL
1/4" = 1'-0"



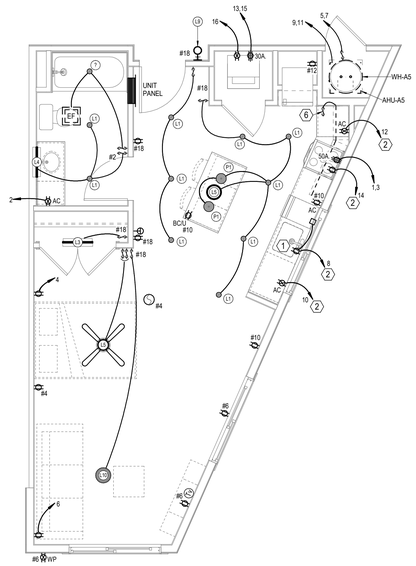
2 TYPICAL UNIT A-2
ELECTRICAL
1/4" = 1'-0"



3 TYPICAL UNIT A-3
ELECTRICAL
1/4" = 1'-0"



4 TYPICAL UNIT A-4
ELECTRICAL
1/4" = 1'-0"

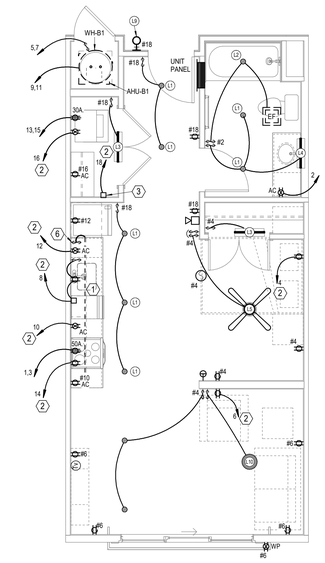


5 TYPICAL UNIT A-5
ELECTRICAL
1/4" = 1'-0"

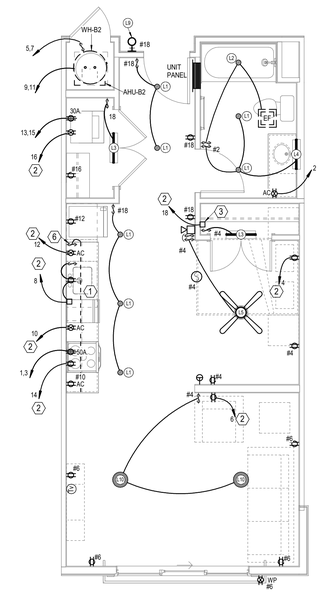
LEGEND:
(1) SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.
(2) PROVIDE ARK-FAULT BREAKER IN PANEL.
(3) TELE/TV DENMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
(4) SWITCHES FOR OVERHEAD MW FAN & LIGHT. SWITCH FOR FAN MUST BE MULTI-SPEED.
(5) SMOKE ALARM TO HAVE STROBE.
(6) SWITCH FOR UNDERCABINET LIGHTING. TYPE "R".

NOTES:

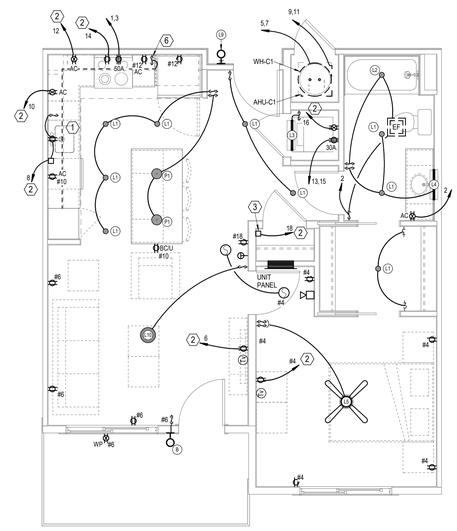
1. HALLWAY FIXTURES ARE UNSWITCHED. MOUNT AT 84"AFF, VERIFY WITH ARCHITECT.
2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
3. CENTER ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
4. 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.
5. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (smoke detector) = 120V. SM0KE ALARM WITH BATTERY BACK— UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES.
8. 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". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS.
9. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
10. ALL RANGES SERVED BY (3)#8 and (1)# 10 AND 50A. RECEPTACLE.
11. ALL WATER HEATERS SERVED BY (3)#10
12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY).
13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.
14. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE.
15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.



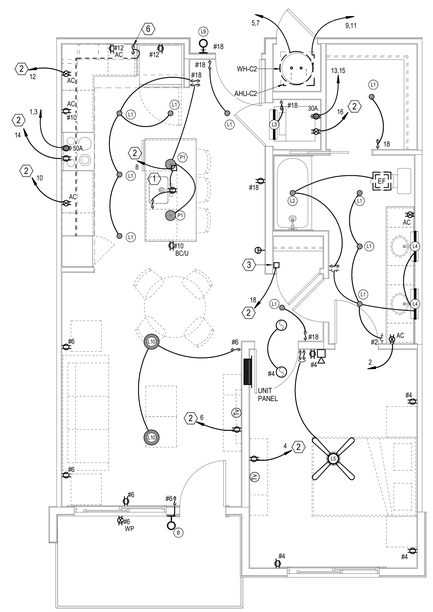
6 TYPICAL UNIT B-1
ELECTRICAL
1/4" = 1'-0"



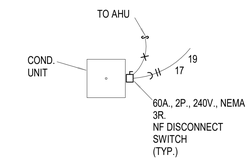
7 TYPICAL UNIT B-2
ELECTRICAL
1/4" = 1'-0"



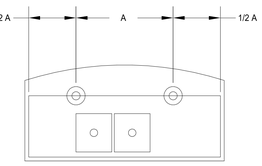
8 TYPICAL UNIT C-1
ELECTRICAL
1/4" = 1'-0"
C-1 S SIMILAR



9 TYPICAL UNIT C-2
ELECTRICAL
1/4" = 1'-0"
C-2 S & C-10 SIMILAR



10 TYPICAL COND. UNIT DETAIL
NOT TO SCALE



11 KITCHEN ISLAND LIGHTING DETAIL
NOT TO SCALE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER PE-2010020121
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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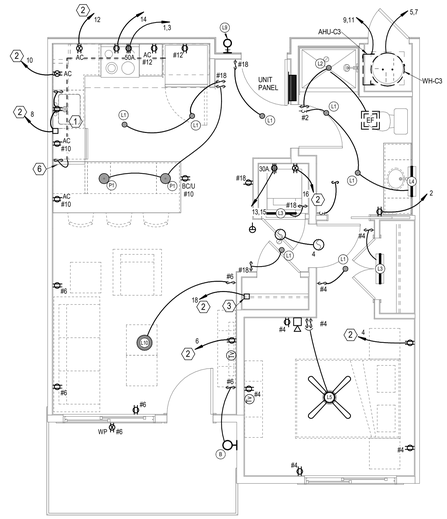
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

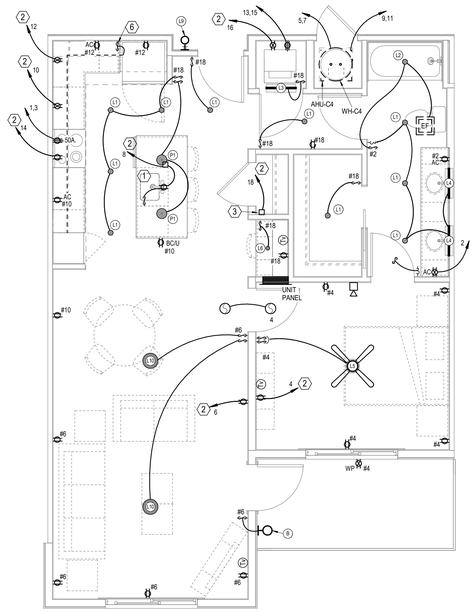
TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

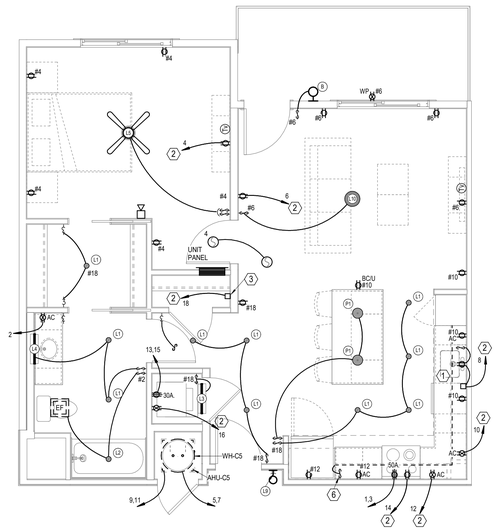
E2.01



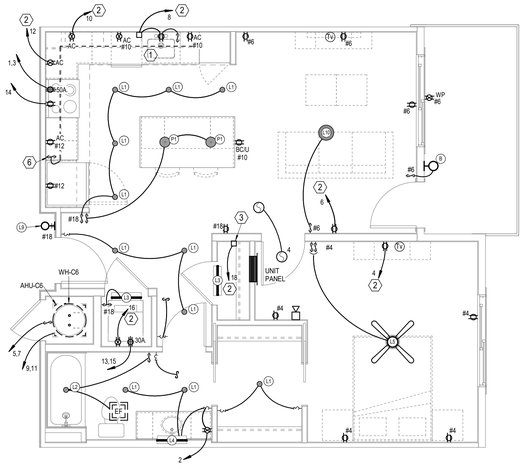
1 TYPICAL UNIT C-3
ELECTRICAL
1/4" = 1'-0"



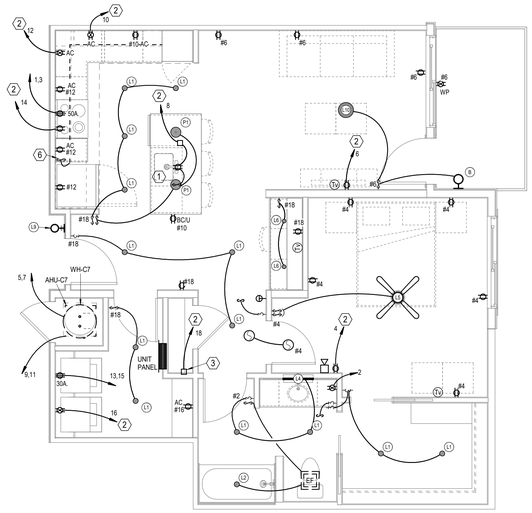
2 TYPICAL UNIT C-4
ELECTRICAL
1/4" = 1'-0"



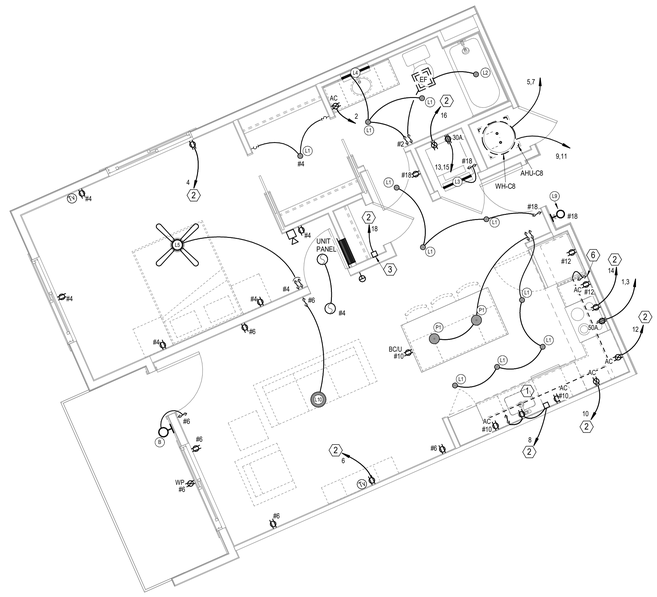
3 TYPICAL UNIT C-5
ELECTRICAL
1/4" = 1'-0"



4 TYPICAL UNIT C-6
ELECTRICAL
1/4" = 1'-0"



5 TYPICAL UNIT C-7
ELECTRICAL
1/4" = 1'-0"



6 TYPICAL UNIT C-8
ELECTRICAL
1/4" = 1'-0"

LEGEND:

1. SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.
2. PROVIDE ARK-FAULT BREAKER IN PANEL.
3. TELE/TV DENMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
4. SWITCHES FOR OVERHEAD MW FAN & LIGHT. SWITCH FOR FAN MUST BE MULTI-SPEED.
5. SMOKE ALARM TO HAVE STROBE.
6. SWITCH FOR UNDERCABINET LIGHTING. TYPE "R".

NOTES:

1. HALLWAY FIXTURES ARE UNSWITCHED. MOUNT AT 84"AFF, VERIFY WITH ARCHITECT.
2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
3. CENTER ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
4. 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.
5. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (smoke detector) = 120V. SM0KE ALARM WITH BATTERY BACK— UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES.
8. 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". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS.
9. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
10. ALL RANGES SERVED BY (3)#8 and (1)# 10 AND 50A. RECEPTACLE.
11. ALL WATER HEATERS SERVED BY (3)#10
12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY).
13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.
14. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE.
15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD P. BEAUMONT
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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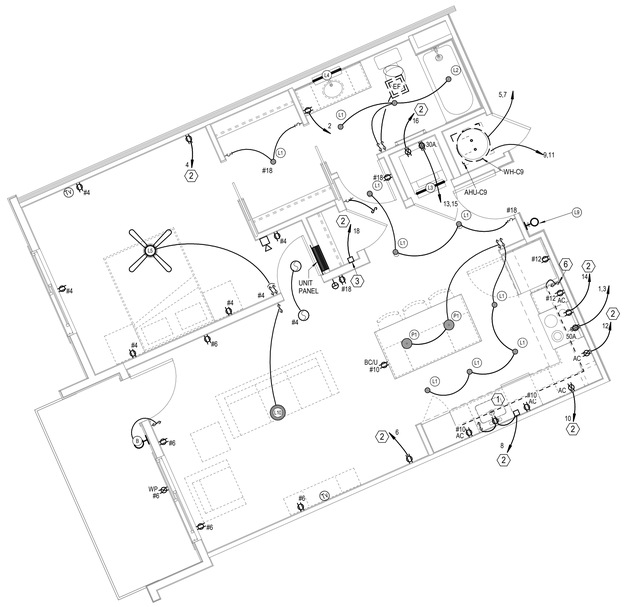
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

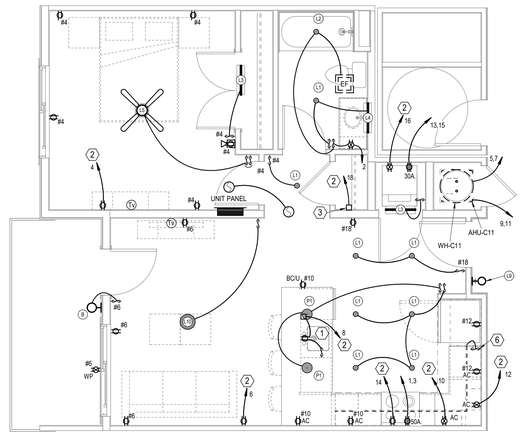
TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

E2.02



1 TYPICAL UNIT C-9
ELECTRICAL
1/4" = 1'-0"



3 TYPICAL UNIT C-11
ELECTRICAL
1/4" = 1'-0"

LEGEND:

1. SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.
2. PROVIDE ARK-FAULT BREAKER IN PANEL.
3. TELE/TV DENMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
4. SWITCHES FOR OVERHEAD MW FAN & LIGHT. SWITCH FOR FAN MUST BE MULTI-SPEED.
5. SMOKE ALARM TO HAVE STROBE.
6. SWITCH FOR UNDERCABINET LIGHTING. TYPE "R".

NOTES:

1. HALLWAY FIXTURES ARE UNSWITCHED. MOUNT AT 84"AFF, VERIFY WITH ARCHITECT.
2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
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4. 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.
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11. ALL WATER HEATERS SERVED BY (3)#10
12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY).
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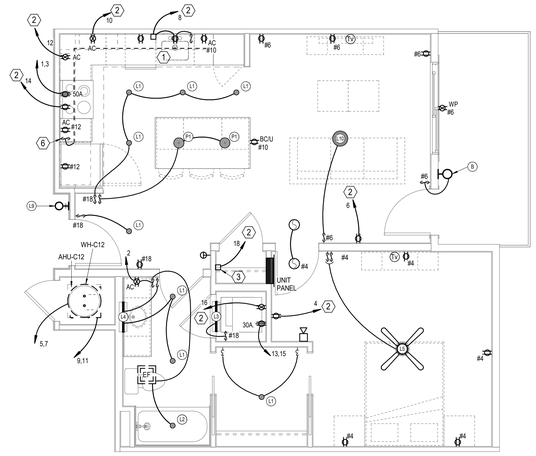
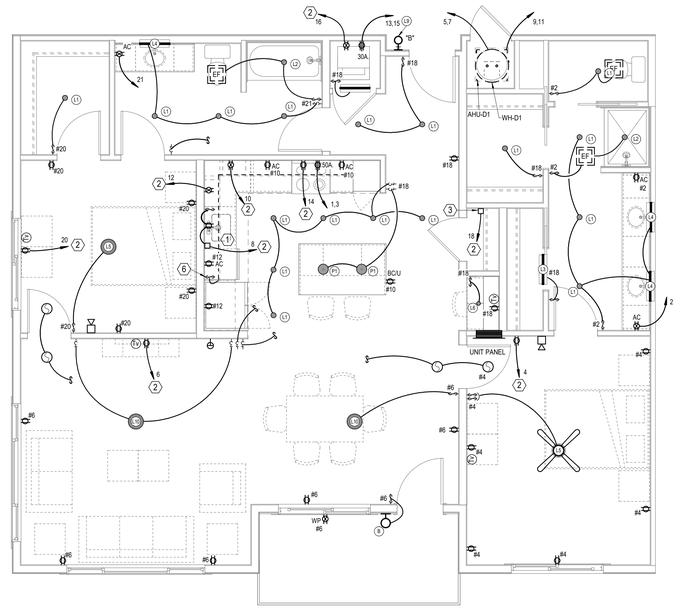
15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.



5 TYPICAL UNIT C-12
ELECTRICAL
1/4" = 1'-0"



6 TYPICAL UNIT D-1
ELECTRICAL
1/4" = 1'-0"

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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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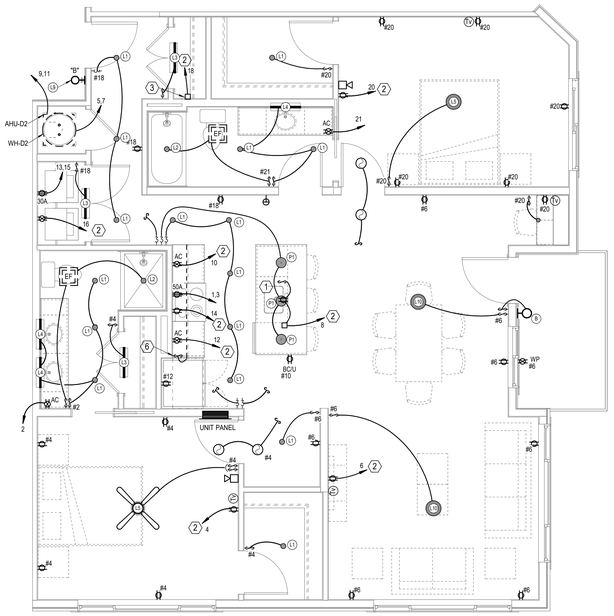
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

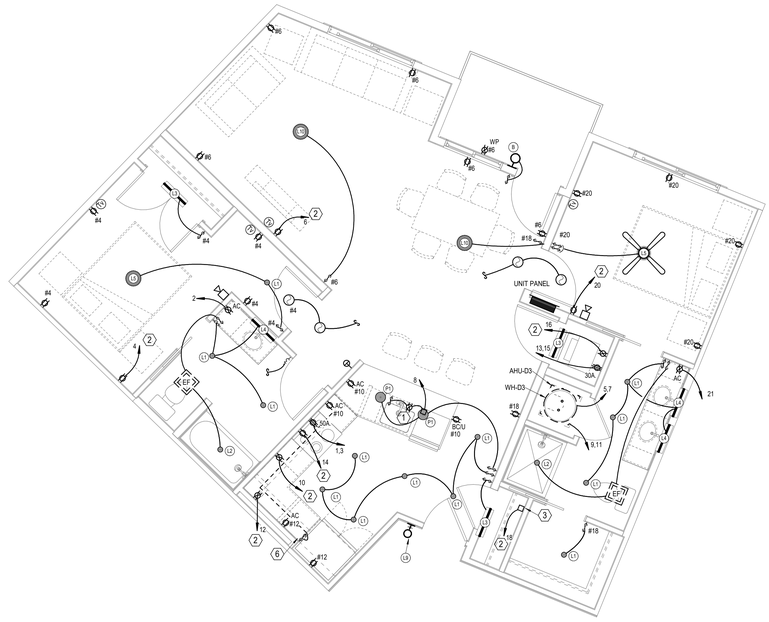
E2.03



1 TYPICAL UNIT D-2

ELECTRICAL

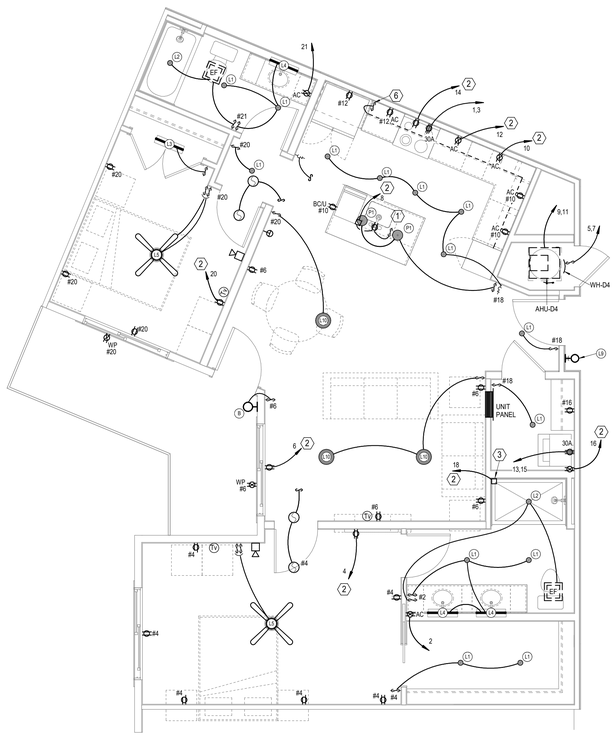
1/4" = 1'-0"



2 TYPICAL UNIT D-3

ELECTRICAL

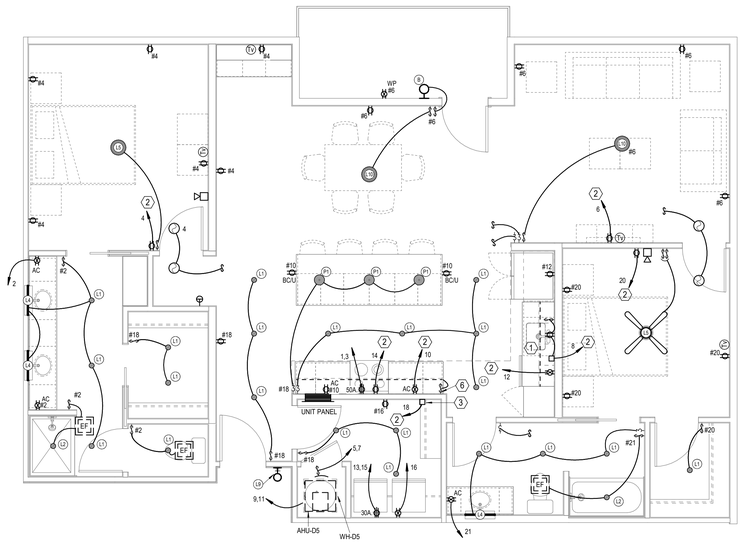
1/4" = 1'-0"



3 TYPICAL UNIT D-4

ELECTRICAL

1/4" = 1'-0"



4 TYPICAL UNIT D-5

ELECTRICAL

1/4" = 1'-0"

LEGEND:

1. SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.
2. PROVIDE ARK-FAULT BREAKER IN PANEL.
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4. SWITCHES FOR OVERHEAD MW FAN & LIGHT. SWITCH FOR FAN MUST BE MULTI-SPEED.
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NOTES:

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REVISIONS

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2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2010020172
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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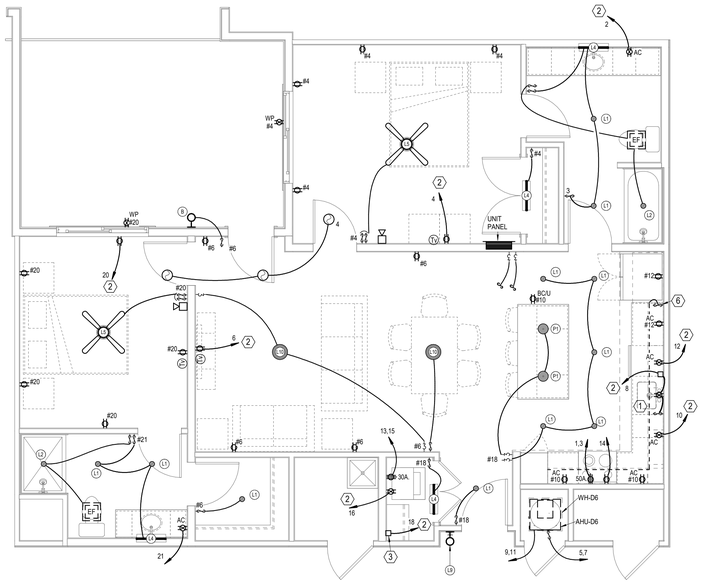
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

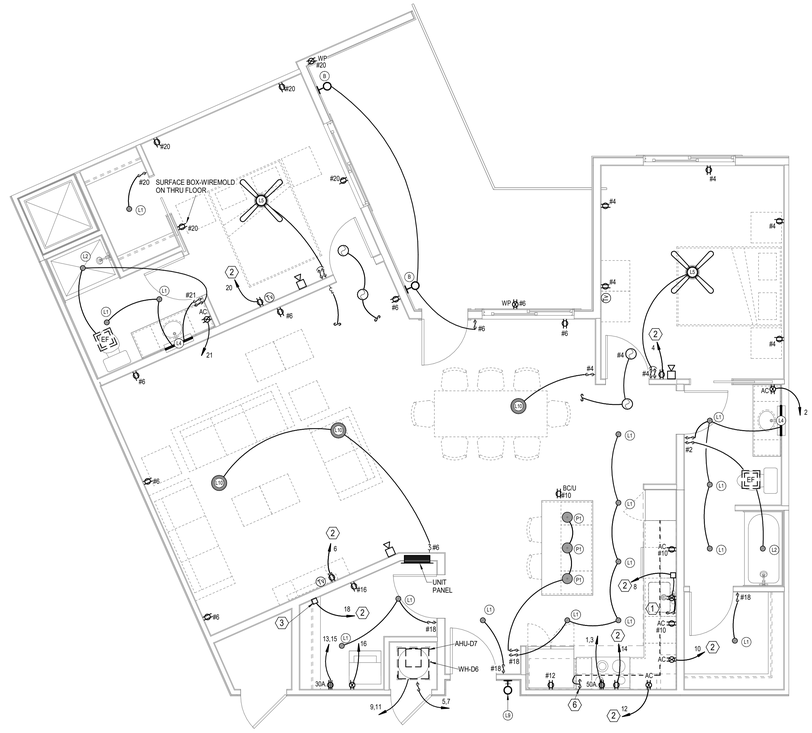
TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

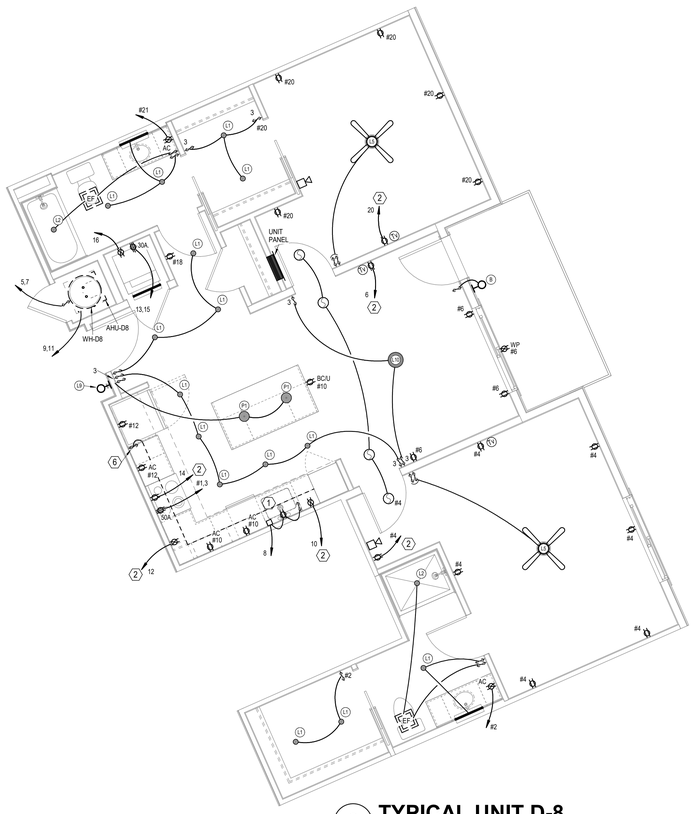
E2.04



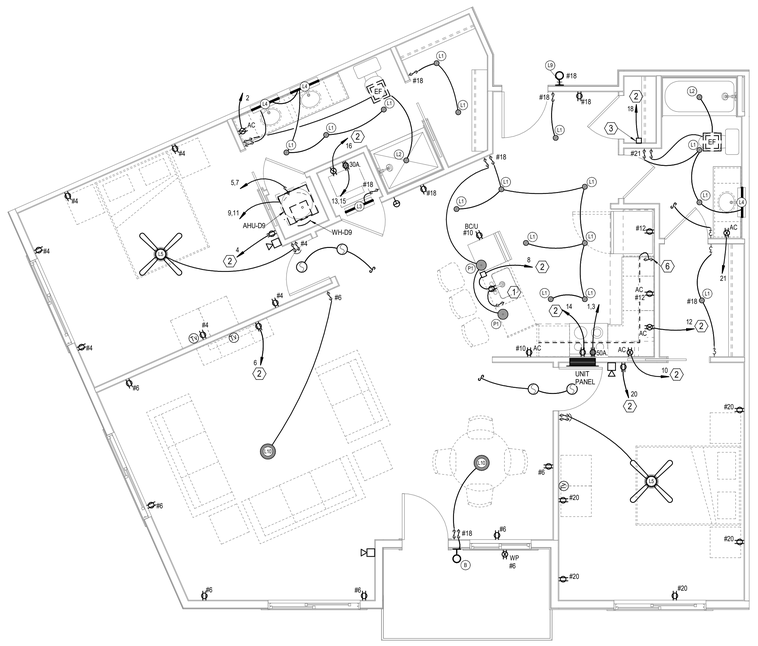
1 TYPICAL UNIT D-6
ELECTRICAL
1/4" = 1'-0"



2 TYPICAL UNIT D-7
ELECTRICAL
1/4" = 1'-0"



3 TYPICAL UNIT D-8
ELECTRICAL
1/4" = 1'-0"



4 TYPICAL UNIT D-9
ELECTRICAL
1/4" = 1'-0"

LEGEND:	
1	SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.
2	PROVIDE ARK-FAULT BREAKER IN PANEL.
3	TELE/TV DENMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
4	SWITCHES FOR OVERHEAD MW FAN & LIGHT. SWITCH FOR FAN MUST BE MULTI-SPEED.
5	SMOKE ALARM TO HAVE STROBE.
6	SWITCH FOR UNDERCABINET LIGHTING. TYPE "R".

NOTES:

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2010019744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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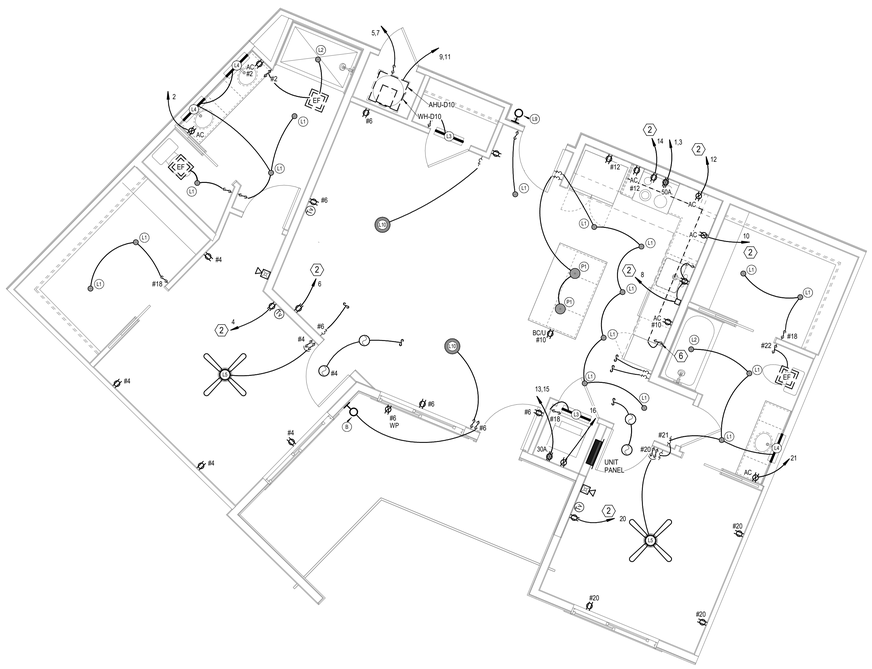
SHEET TITLE

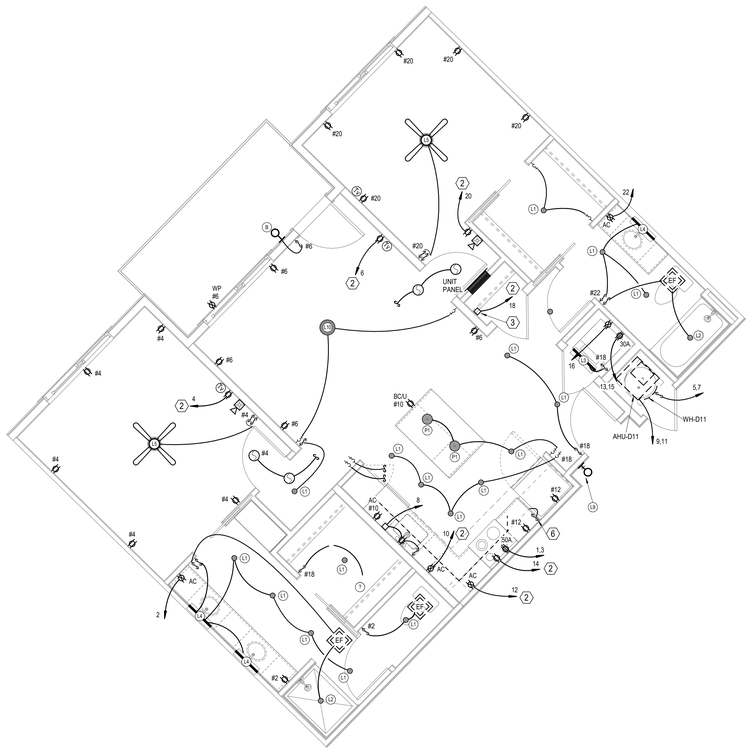
TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

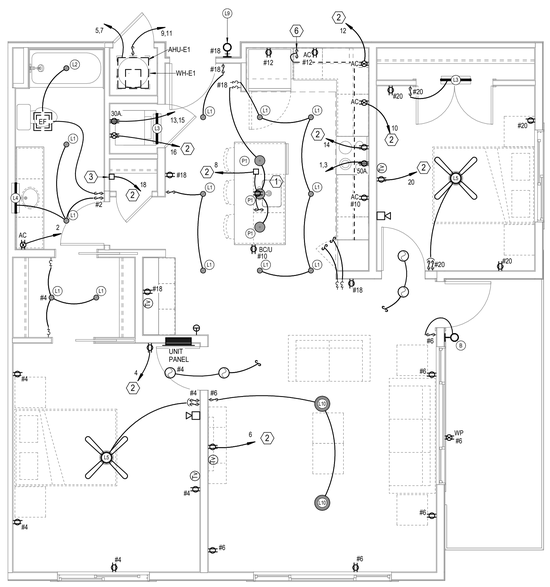
E2.05



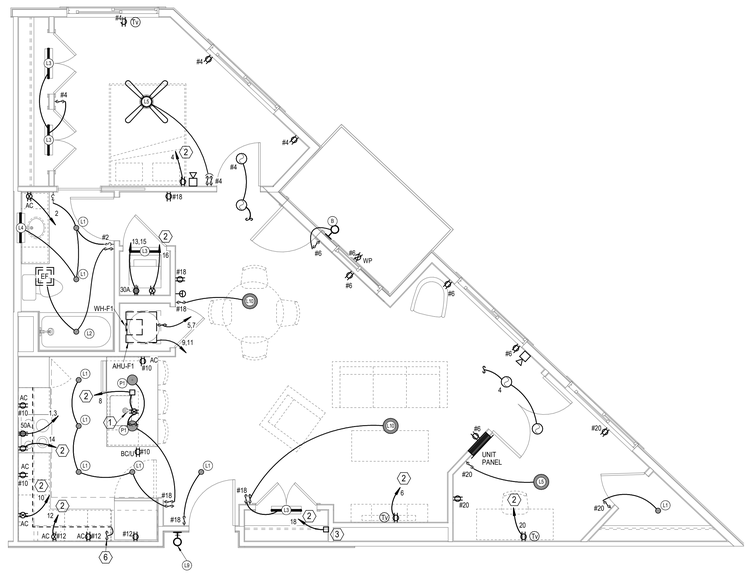
1 TYPICAL UNIT D-10
ELECTRICAL
1/4" = 1'-0"



2 TYPICAL UNIT D-11
ELECTRICAL
1/4" = 1'-0"



3 TYPICAL UNIT E-1
ELECTRICAL
1/4" = 1'-0"



4 TYPICAL UNIT F-1
ELECTRICAL
1/4" = 1'-0"

LEGEND:

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3. TELE/TV DENMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
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8. 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 SOUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS.
9. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
10. ALL RANGES SERVED BY (3)#8 and (1)# 10 AND 5OA. RECEPTACLE.
11. ALL WATER HEATERS SERVED BY (3)#10
12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY).
13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.
14. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE.
15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010021751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

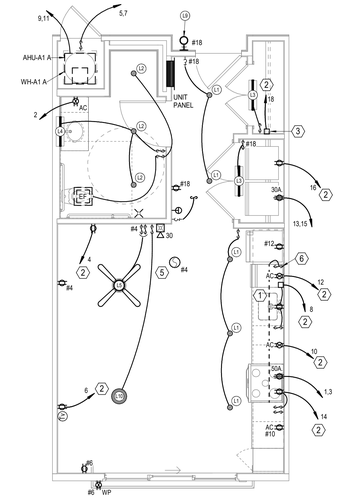
LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

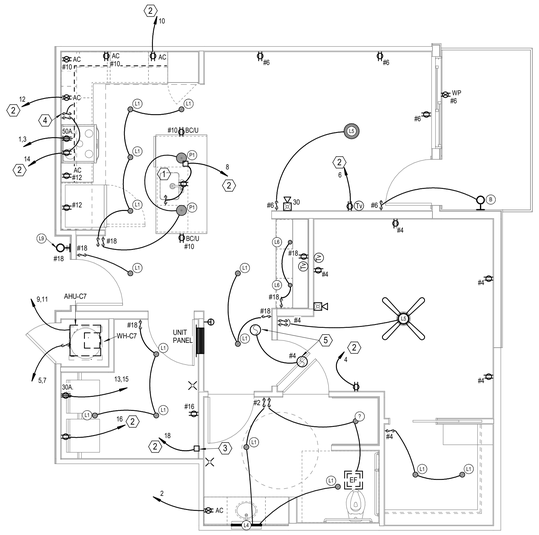
TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

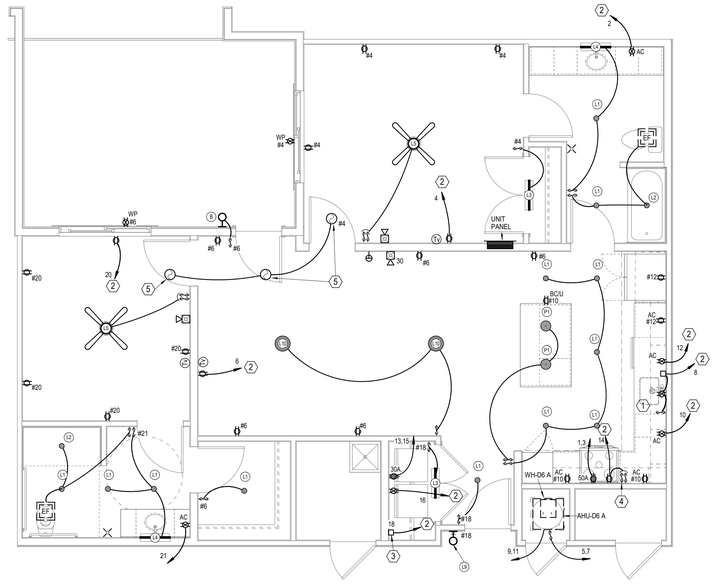
E2.06



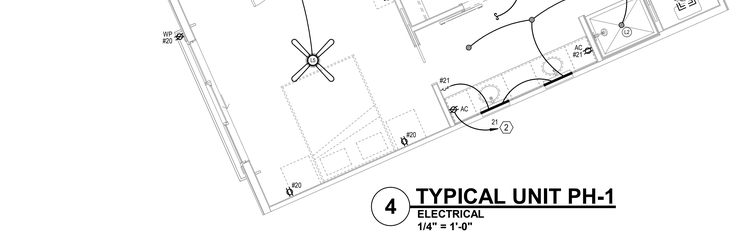
1 TYPICAL UNIT A-1 TYPE A
ELECTRICAL
1/4" = 1'-0"



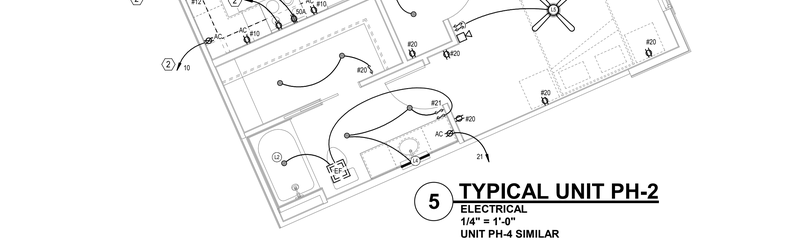
2 TYPICAL UNIT C-7 TYPE A
ELECTRICAL
1/4" = 1'-0"



3 TYPICAL UNIT D-6 TYPE A
ELECTRICAL
1/4" = 1'-0"



4 TYPICAL UNIT PH-1
ELECTRICAL
1/4" = 1'-0"



5 TYPICAL UNIT PH-2
ELECTRICAL
1/4" = 1'-0"
UNIT PH-4 SIMILAR

LEGEND:

1. SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.
2. PROVIDE ARK-FAULT BREAKER IN PANEL.
3. TELE/TV DENMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
4. SWITCHES FOR OVERHEAD MW FAN & LIGHT. SWITCH FOR FAN MUST BE MULTI-SPEED.
5. SMOKE ALARM TO HAVE STROBE.
6. SWITCH FOR UNDERCABINET LIGHTING. TYPE "R".

NOTES:

1. HALLWAY FIXTURES ARE UNSWITCHED. MOUNT AT 84"AFF, VERIFY WITH ARCHITECT.
2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
3. CENTER ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
4. 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.
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REVISIONS

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2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2003018766
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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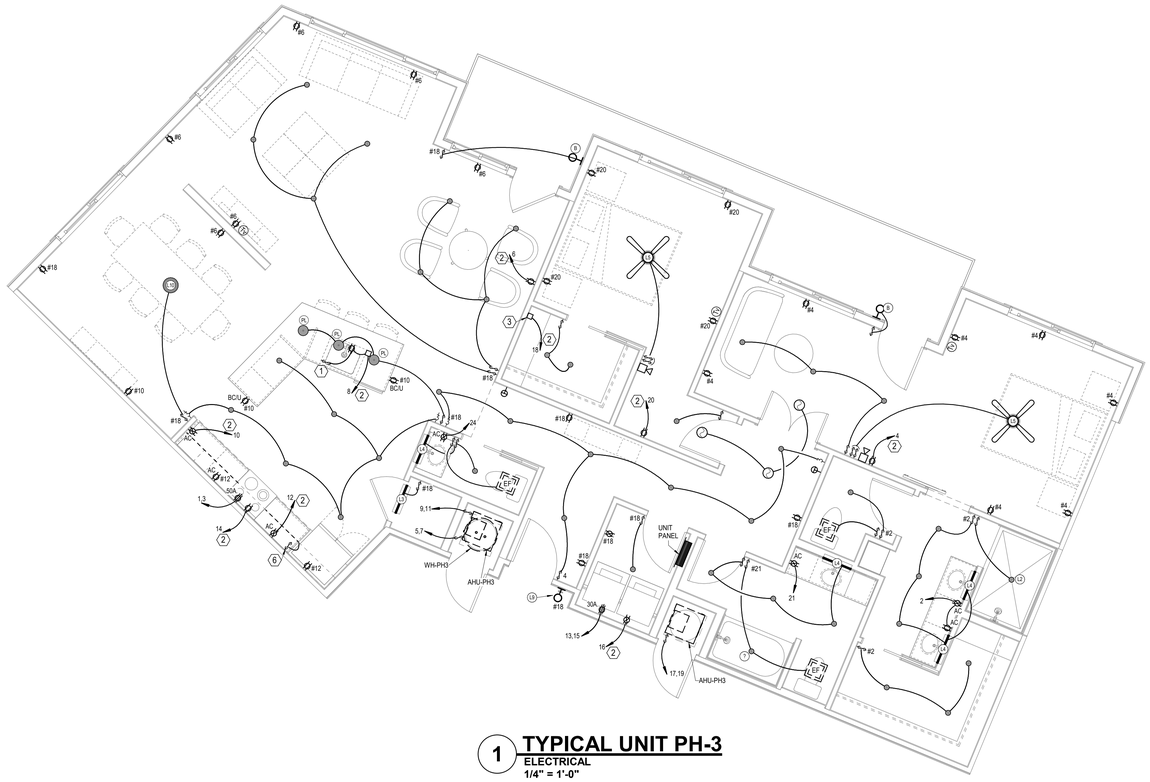
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

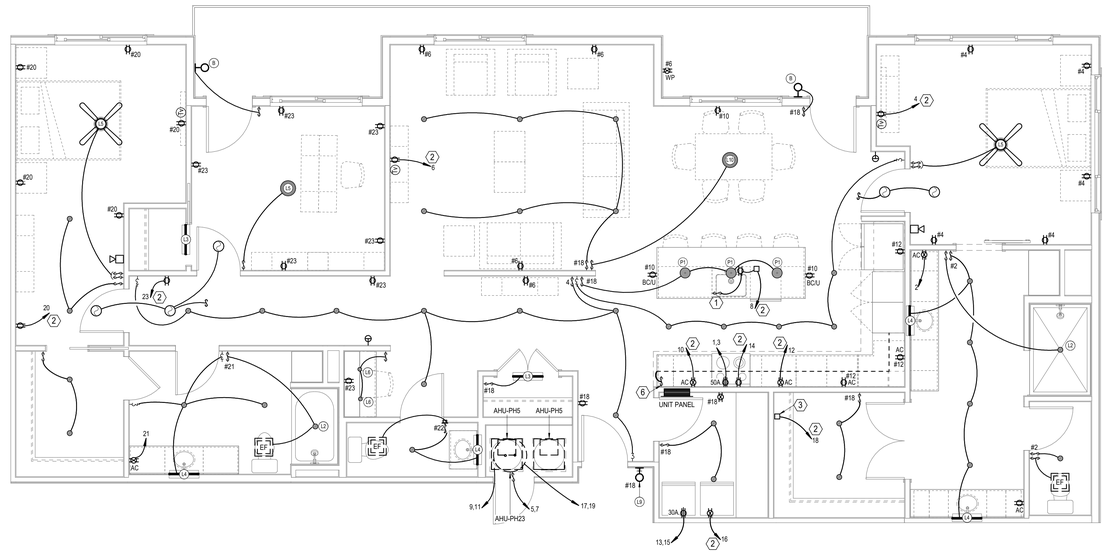
E2.07



1 TYPICAL UNIT PH-3

ELECTRICAL

1/4" = 1'-0"



2 TYPICAL UNIT PH-5

ELECTRICAL

1/4" = 1'-0"

LEGEND:	
1	SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.
2	PROVIDE ARK-FAULT BREAKER IN PANEL.
3	TELE/TV DENMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
4	SWITCHES FOR OVERHEAD MW FAN & LIGHT. SWITCH FOR FAN MUST BE MULTI-SPEED.
5	SMOKE ALARM TO HAVE STROBE.
6	SWITCH FOR UNDERCABINET LIGHTING. TYPE "R".

NOTES:

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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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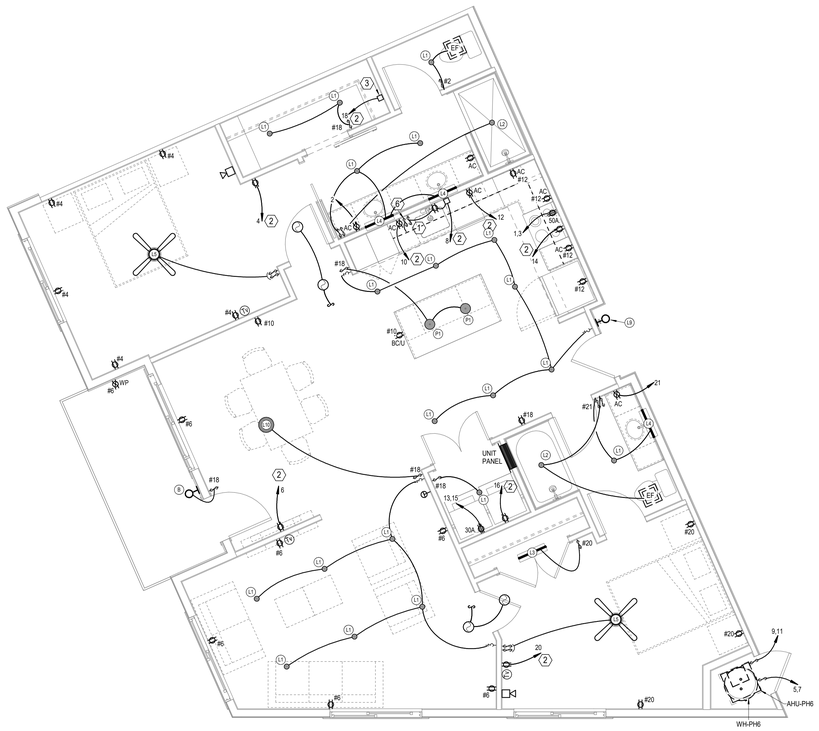
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

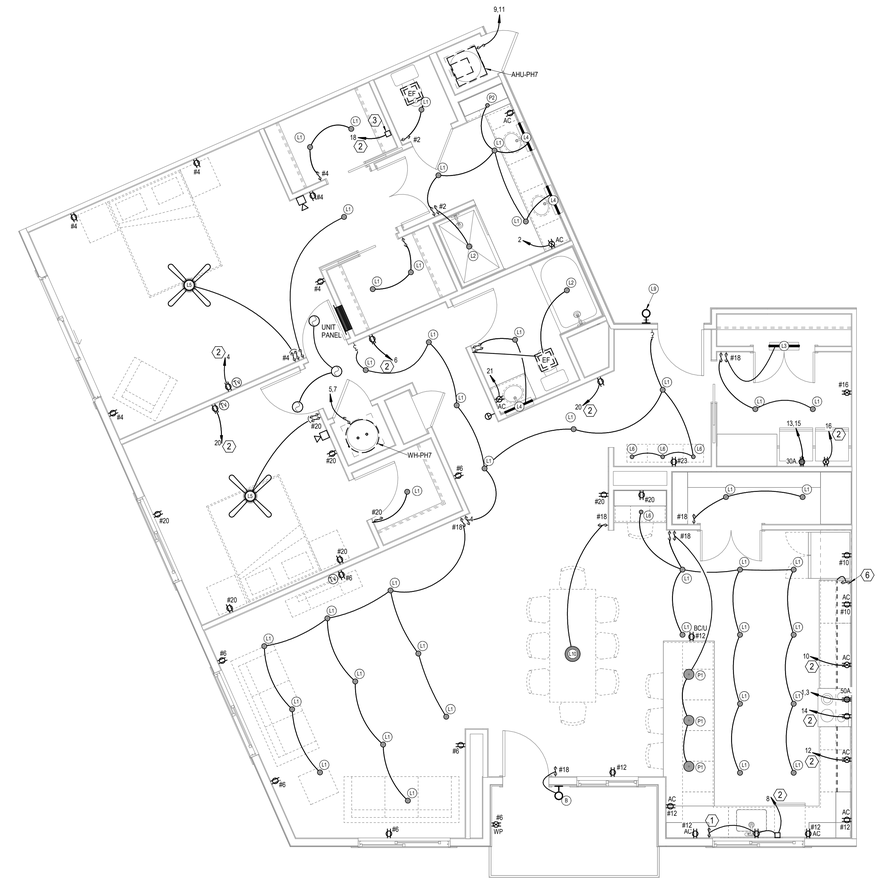
TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

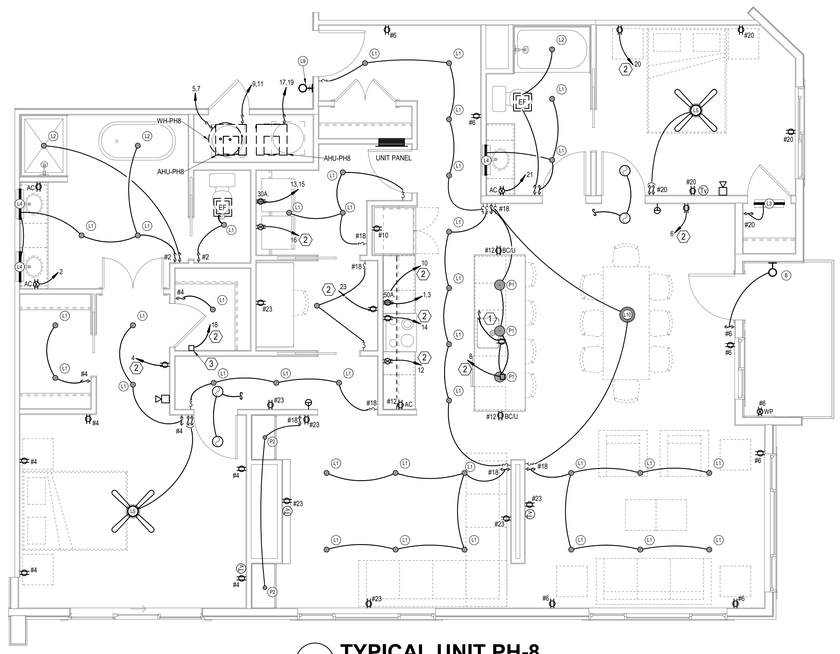
E2.08



1 TYPICAL UNIT PH-6
ELECTRICAL
1/4" = 1'-0"



2 TYPICAL UNIT PH-7
ELECTRICAL
1/4" = 1'-0"



3 TYPICAL UNIT PH-8
ELECTRICAL
1/4" = 1'-0"

LEGEND:

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NOTES:

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Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2010018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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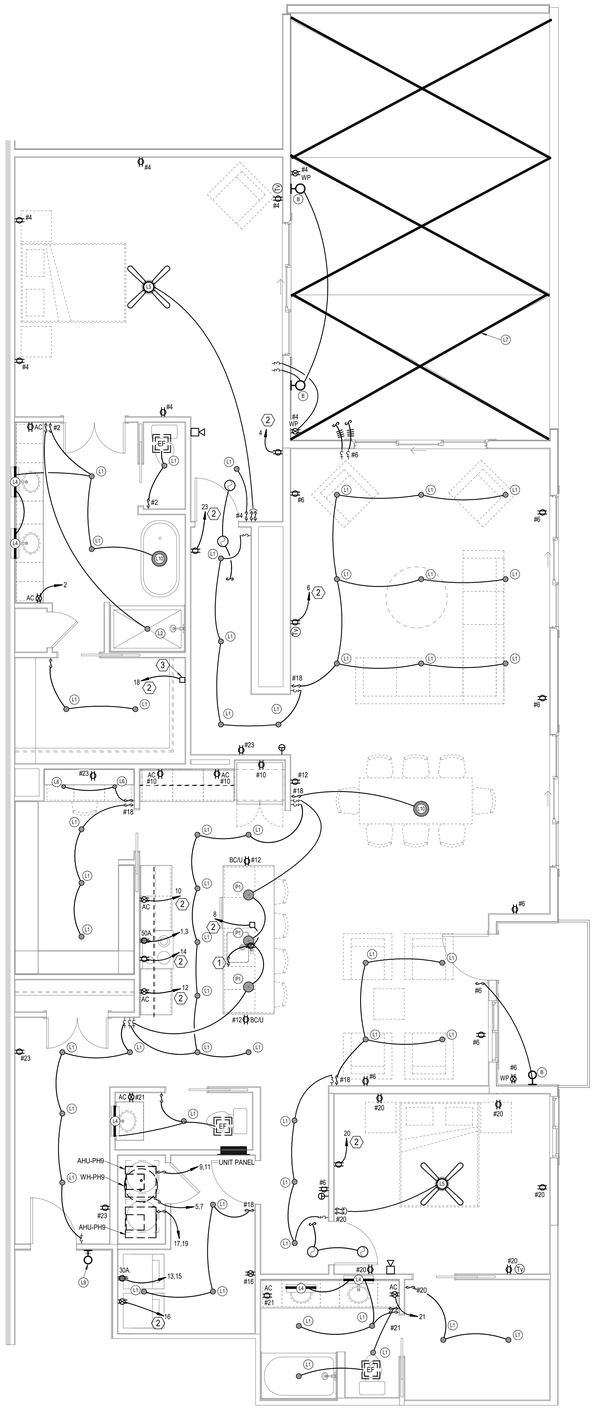
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2104043

SHEET TITLE

TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

E2.09



1 TYPICAL UNIT PH-9

ELECTRICAL

1/4" = 1'-0"

LEGEND:

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REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER A-2003018766
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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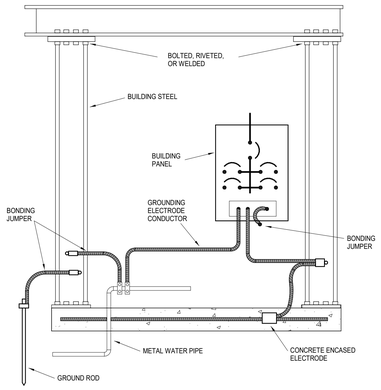
SHEET TITLE

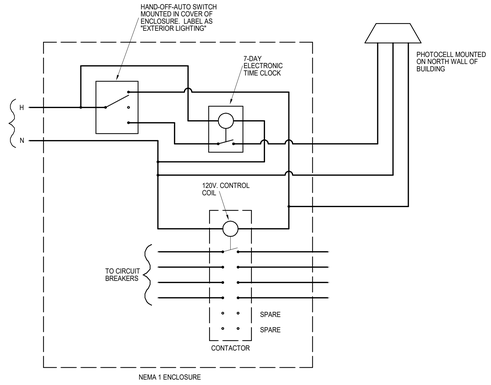
TYPICAL UNIT PLANS - ELECTRICAL

SHEET NUMBER

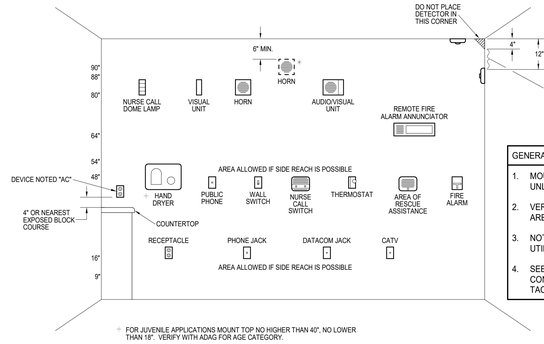
E2.10



1 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



2 EXTERIOR LIGHTING CONTROL PANEL SCHEMATIC
NOT TO SCALE



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.

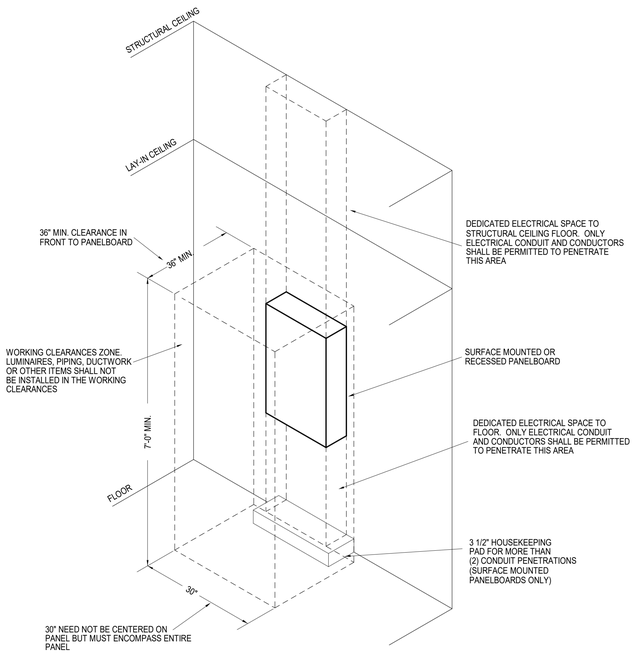
DEVICE MOUNTING NOTES:

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.

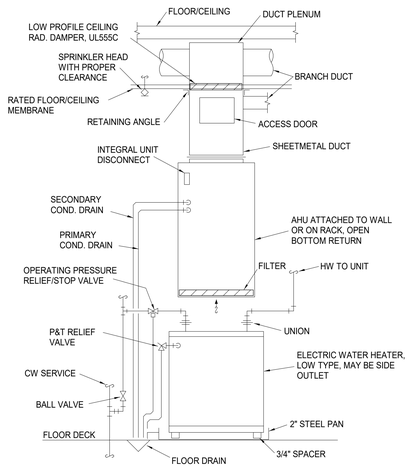
3 ELECTRICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



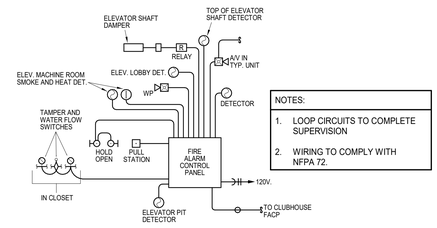
NOTE:

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

4 TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



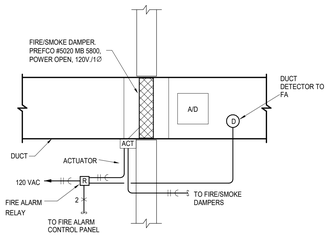
5 APARTMENT AHU/WATER HEATER ELEC
NOT TO SCALE



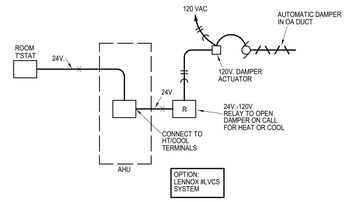
NOTES:

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

6 FIRE ALARM RISER DIAGRAM1
NOT TO SCALE



7 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



8 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NOT TO SCALE

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2007018102
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
Latimer Sommers & Associates P.A.
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3639 SW Summerfield Drive, Suite A
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Telephone: (785) 233-3222
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

ELECTRICAL DETAILS

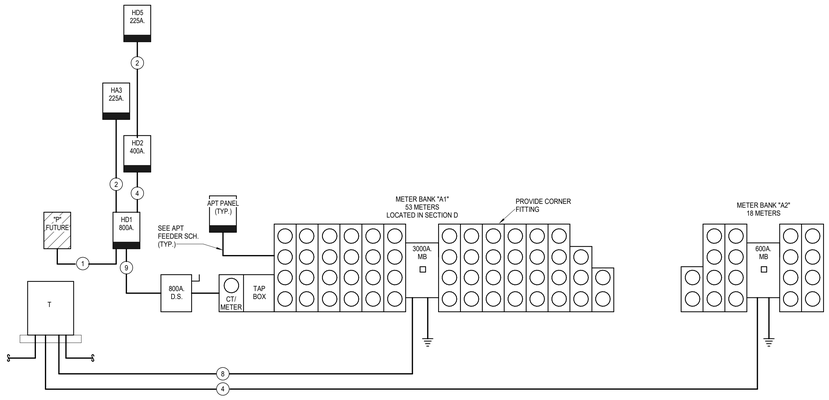
SHEET NUMBER

E3.01

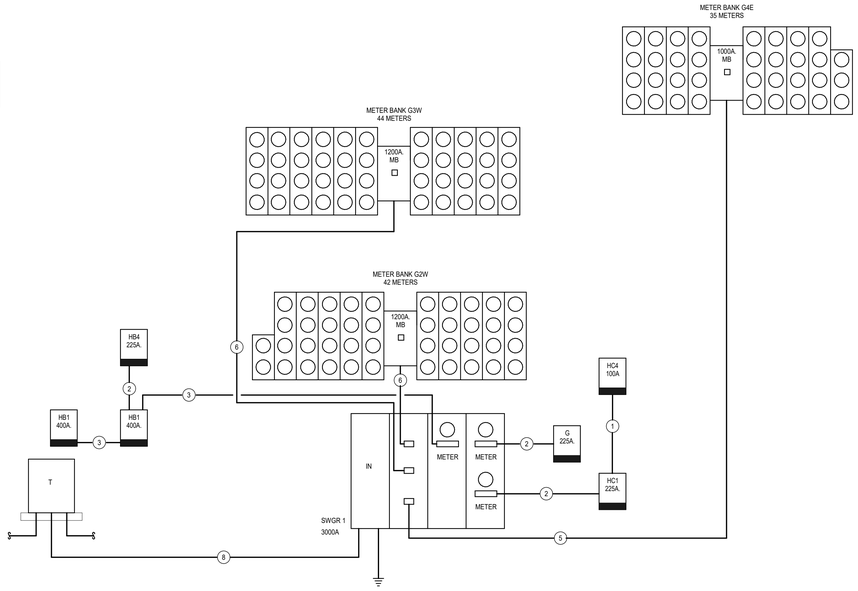
FEEDER SCHEDULE						
MARK	OCP	SETS	NO. COND.	SIZE ALUM.	SIZE GRD. CU	CONDUIT
1	100 A	1	4	#1/0	#4	1 1/2"
2	225 A	1	4	300 KCMIL	#2	3"
3	400 A	2	4	#4/0	#1	2"
4	600 A	2	4	500 KCMIL	#2/0	3"
5	1000 A	3	4	600 KCMIL	#4/0	4"
6	1200 A	4	4	500 KCMIL	250 KCMIL	3"
7	1600 A	5	4	600 KCMIL	350 KCMIL	4"
8	3000 A	9	4	600 KCMIL	500 KCMIL	4"
9	800 A	3	4	400 KCMIL	#3/0	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 TO 235 FT.	110A.: 1-1-1-4 UP TO 135 FT. 0-0-0-4 UP TO 170 FT. 2/0-2/0-2/0-3 UP TO 215 FT.

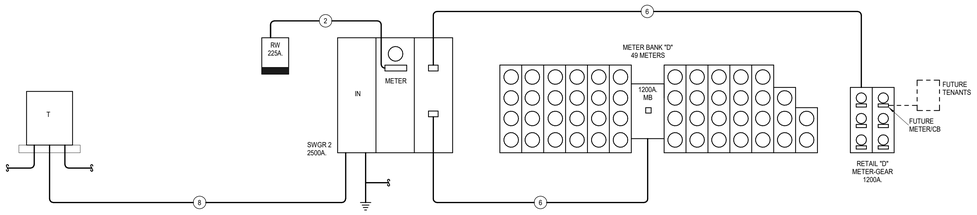
NOTE:
- UNDERGROUND CONDUIT MATERIAL = SCH. 40 PVC.
- CONDUCTOR INSULATION = THHN/THWN.



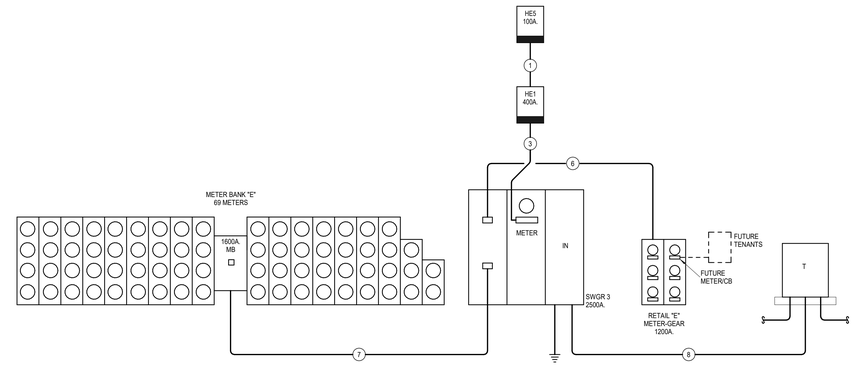
1 BUILDING A ELECTRICAL RISER DIAGRAM
NOT TO SCALE



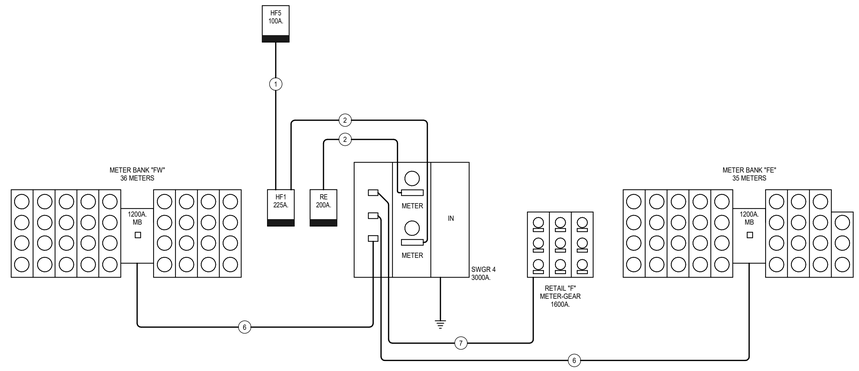
2 BUILDING B/C ELECTRICAL RISER DIAGRAM
NOT TO SCALE



3 BUILDING D ELECTRICAL RISER DIAGRAM
NOT TO SCALE



4 BUILDING E ELECTRICAL RISER DIAGRAM1
NOT TO SCALE



5 BUILDING F ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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3200 NW PARAGON PKWY
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STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2009018755
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7/20/2022

PROJECT TEAM

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LANDSCAPE	LAND 3
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FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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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. 2104043

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E3.02

Panel: GARAGE

Location: GARAGE | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **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				1321 2060			12	20 A	Lighting	2
3	GARAGE EF	15 A	12		1321 1600		12	20 A	Lighting	4
5						1321 1680	12	20 A	Lighting	6
7				1321 1752			12	20 A	Lighting	8
9	GARAGE EF	15 A	12		1321 600		12	20 A	Lighting	10
11						1321 737	12	20 A	Lighting	12
13				1321						14
15	GARAGE EF	15 A	12		1321 800		12	20 A	CO SENSOR	16
17						1321 800	12	20 A	CO SENSOR	18
19				0 800			12	20 A	CO SENSOR	20
21	Power Space 1305	20 A	12		0 296		12	20 A	Receptacle	22
23						0 2704	8	35 A	EUH-B	24
25				2704						26
27					1995		12	20 A	Lighting STAIR 106	28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
		Total Load:		11163 VA	9184 VA	9815 VA				
		Total Amps:		94 A	77 A	83 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	17297 VA	65.00%	11243 VA		
Lighting	8792 VA	125.00%	10990 VA	**Total Conn. Load:**	30155 VA
Other	2400 VA	100.00%	2400 VA	**Total Est. Demand:**	26291 VA
Power	500 VA	100.00%	500 VA	**Total Conn.:**	84 A
Receptacle	1440 VA	100.00%	1440 VA	**Total Est. Demand:**	73 A

Notes:

Garage Luminaire Schedule

MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
A	Garage Light	Royal Pacific	4431OB-60-MS	surface	standard	60W 4000K	with 50% motion dimming
A1	Garage Light	Royal Pacific	4431OB-60-MS	surface	standard	60W 4000K	with 50% motion dimming/battery
A2	Surface Globe	Lithonia	LDNACYL-40L/O4/AR/LSS/fcm	surface	white	1000 Lumen 4000K 10W	
B	Strip	Lithonia	MNSL-L46 1LL MVOLt 40k	surface	white	20W 4000K LED	with battery
C	Double head Pole	McGraw Edison	(2) GLEON-SA2C-740-U-SWQ	jb/surface	white	15,200 Lumen 4000K 115W LED	16 ft pole
X1	Exit	Lithonia	LQM SW3R	surface	white/red	LED	
X2	Exit - waterproof	Lithonia	WLTE-W-1R-EL	surface	white/red	LED	

SWITCHGEAR LOAD ANALYSIS

Panel Name	Total Units	Total Connected	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Retail Load	Total Demand (Amps)
SWGR 1	121	3,802,320 VA	0.23	875 VA	2429	560	0	2989
SWGR 2	49	1,547,220 VA	0.26	402 VA	1117	0	600	1717
SWGR 3	69	2,143,840 VA	0.23	493 VA	1370	250	600	2220
SWGR 4	71	2,272,270 VA	0.23	523 VA	1452	200	800	2452

Unit Load Calculation - Complete Analysis

Unit Type	Sq. Ft.	Area Calculation: Load per Sq Ft	Area Calculation: Total Per Sq Ft.	General: 2 Small Appliance Circuits	General Load: Dishwasher	Disposer	Dryer	Microwave	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	Total Connected Load	Breaker Size
A-1	400	3 VA	1200 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25190 VA	3700 VA	65%	2405 VA	10000 VA	6076 VA	18481 VA	208 V	89 VA	28890 VA	100
A-1 ADA	400	3 VA	1200 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25190 VA	3700 VA	65%	2405 VA	10000 VA	6076 VA	18481 VA	208 V	89 VA	28890 VA	100
A-2	400	3 VA	1200 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25190 VA	3700 VA	65%	2405 VA	10000 VA	6076 VA	18481 VA	208 V	89 VA	28890 VA	100
A-3	425	3 VA	1275 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25265 VA	3700 VA	65%	2405 VA	10000 VA	6106 VA	18511 VA	208 V	89 VA	28965 VA	100
A-4	475	3 VA	1425 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25415 VA	3700 VA	65%	2405 VA	10000 VA	6166 VA	18571 VA	208 V	89 VA	29115 VA	100
A-5	475	3 VA	1425 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25415 VA	3700 VA	65%	2405 VA	10000 VA	6166 VA	18571 VA	208 V	89 VA	29115 VA	100
B-1	500	3 VA	1500 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25490 VA	3700 VA	65%	2405 VA	10000 VA	6196 VA	18601 VA	208 V	89 VA	29190 VA	100
B-2	520	3 VA	1560 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25550 VA	3700 VA	65%	2405 VA	10000 VA	6220 VA	18625 VA	208 V	90 VA	29250 VA	100
C-1	650	3 VA	1950 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25940 VA	5600 VA	65%	3640 VA	10000 VA	6376 VA	20016 VA	208 V	96 VA	31540 VA	100
C-1S	650	3 VA	1950 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25940 VA	5600 VA	65%	3640 VA	10000 VA	6376 VA	20016 VA	208 V	96 VA	31540 VA	100
C-2	745	3 VA	2235 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26225 VA	5600 VA	65%	3640 VA	10000 VA	6490 VA	20130 VA	208 V	97 VA	31825 VA	100
C-2S	745	3 VA	2235 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26225 VA	5600 VA	65%	3640 VA	10000 VA	6490 VA	20130 VA	208 V	97 VA	31825 VA	100
C-3	605	3 VA	1815 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25805 VA	5600 VA	65%	3640 VA	10000 VA	6322 VA	19962 VA	208 V	96 VA	31405 VA	100
C-4	800	3 VA	2400 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26390 VA	5600 VA	65%	3640 VA	10000 VA	6556 VA	20196 VA	208 V	97 VA	31990 VA	100
C-5	725	3 VA	2175 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26165 VA	5600 VA	65%	3640 VA	10000 VA	6466 VA	20106 VA	208 V	97 VA	31765 VA	100
C-6	700	3 VA	2100 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26090 VA	5600 VA	65%	3640 VA	10000 VA	6436 VA	20076 VA	208 V	97 VA	31690 VA	100
C-7	700	3 VA	2100 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26090 VA	5600 VA	65%	3640 VA	10000 VA	6436 VA	20076 VA	208 V	97 VA	31690 VA	100
C-7 ADA	700	3 VA	2100 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26090 VA	5600 VA	65%	3640 VA	10000 VA	6436 VA	20076 VA	208 V	97 VA	31690 VA	100
C-8	775	3 VA	2325 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26315 VA	5600 VA	65%	3640 VA	10000 VA	6526 VA	20166 VA	208 V	97 VA	31915 VA	100
C-9	730	3 VA	2190 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26180 VA	5600 VA	65%	3640 VA	10000 VA	6472 VA	20112 VA	208 V	97 VA	31780 VA	100
C-10	720	3 VA	2160 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26150 VA	5600 VA	65%	3640 VA	10000 VA	6460 VA	20100 VA	208 V	97 VA	31750 VA	100
C-11	630	3 VA	1890 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	25880 VA	5600 VA	65%	3640 VA	10000 VA	6352 VA	19992 VA	208 V	96 VA	31480 VA	100
C-12	735	3 VA	2205 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26195 VA	5600 VA	65%	3640 VA	10000 VA	6478 VA	20118 VA	208 V	97 VA	31795 VA	100
D-1	1330	3 VA	3990 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27980 VA	7500 VA	65%	4875 VA	10000 VA	7192 VA	22067 VA	208 V	106 VA	35480 VA	110
D-2	1230	3 VA	3690 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27680 VA	7500 VA	65%	4875 VA	10000 VA	7072 VA	21947 VA	208 V	106 VA	35180 VA	110
D-3	1030	3 VA	3090 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27080 VA	5600 VA	65%	3640 VA	10000 VA	6832 VA	20472 VA	208 V	98 VA	32680 VA	100
D-4	1080	3 VA	3240 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27230 VA	5600 VA	65%	3640 VA	10000 VA	6892 VA	20532 VA	208 V	99 VA	32830 VA	100
D-5	1300	3 VA	3900 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27890 VA	7500 VA	65%	4875 VA	10000 VA	7156 VA	22031 VA	208 V	106 VA	35390 VA	110
D-6	1090	3 VA	3270 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27260 VA	5600 VA	65%	3640 VA	10000 VA	6904 VA	20544 VA	208 V	99 VA	32860 VA	100
D-6 ADA	1090	3 VA	3270 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27260 VA	5600 VA	65%	3640 VA	10000 VA	6904 VA	20544 VA	208 V	99 VA	32860 VA	100
D-7	1245	3 VA	3735 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27725 VA	7500 VA	65%	4875 VA	10000 VA	7090 VA	21965 VA	208 V	106 VA	35225 VA	110
D-8	1485	3 VA	4455 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	28445 VA	5600 VA	65%	3640 VA	10000 VA	7378 VA	21018 VA	208 V	106 VA	34045 VA	110
D-9	1350	3 VA	4050 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	28040 VA	7500 VA	65%	4875 VA	10000 VA	7216 VA	22091 VA	208 V	106 VA	35540 VA	110
D-10	1350	3 VA	4050 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	28040 VA	7500 VA	65%	4875 VA	10000 VA	7216 VA	22091 VA	208 V	106 VA	35540 VA	110
D-11	1350	3 VA	4050 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	28040 VA	7500 VA	65%	4875 VA	10000 VA	7216 VA	22091 VA	208 V	106 VA	35540 VA	110
E-1	1030	3 VA	3090 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27080 VA	7500 VA	65%	4875 VA	10000 VA	6832 VA	21707 VA	208 V	104 VA	34580 VA	110
F-1	845	3 VA	2535 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	26525 VA	7500 VA	65%	4875 VA	10000 VA	6610 VA	21485 VA	208 V	103 VA	34025 VA	110
PH-1	1500	3 VA	4500 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	28490 VA	11200 VA	65%	7280 VA	10000 VA	7396 VA	24676 VA	208 V	119 VA	39690 VA	125
PH-2	1500	3 VA	4500 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	28490 VA	11200 VA	65%	7280 VA	10000 VA	7396 VA	24676 VA	208 V	119 VA	39690 VA	125
PH-3	1700	3 VA	5100 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	29090 VA	11200 VA	65%	7280 VA	10000 VA	7636 VA	24916 VA	208 V	120 VA	40290 VA	125
PH-4	1500	3 VA	4500 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	28490 VA	11200 VA	65%	7280 VA	10000 VA	7396 VA	24676 VA	208 V	119 VA	39690 VA	125
PH-5	1900	3 VA	5700 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	29690 VA	11200 VA	65%	7280 VA	10000 VA	7676 VA	25156 VA	208 V	121 VA	40890 VA	125
PH-6	1300	3 VA	3900 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	27890 VA	11200 VA	65%	7280 VA	10000 VA	7156 VA	24436 VA	208 V	117 VA	39090 VA	125
PH-7	1800	3 VA	5400 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	29390 VA	11200 VA	65%	7280 VA	10000 VA	7756 VA	25036 VA	208 V	120 VA	40590 VA	125
PH-8	1750	3 VA	5250 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	29240 VA	11200 VA	65%	7280 VA	10000 VA	7696 VA	24976 VA	208 V	120 VA	40440 VA	125
PH-9	2300	3 VA	6900 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	8000 VA	1500 VA	4500 VA	30890 VA	11200 VA	65%	7280 VA	10000 VA	8356 VA	25636 VA	208 V	123 VA	42090 VA	125

Multi-Family Building Load Analysis

Meter Bank / Unit Type	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 A1	53	1,681,970 VA	1682	25%	420	1168	615	1783
A-1	7	202230 VA						
A-5	2	58230 VA						
B-1	7	204330 VA						
C-1	3	94620 VA						
C-1S	13	410020 VA						
C-6	5	158450 VA						
C-9	3	95340 VA						
D-3	3	98040 VA						
D-8	2	68090 VA						
D-10	3	106620 VA						
D-11	3	106620 VA						
PH-1	1	39690 VA						
PH-2	1	39690 VA						
METER BANK A2	18	567,415 VA	567	38%	216	599	0	599
A-1	6	173340 VA						
C-1	3	94620 VA						
C-1S	2	63080 VA						
C-3	3	94215 VA						
D-11	4	142160 VA						
METER BANK D	49	1,547,220 VA	1547	26%	402	1117	0	1117
A-1	3	86670 VA						
A-4	7	203805 VA						
B-2	12	351000 VA						
C-2S	4	127300 VA						
C-8	4	127660 VA						
C-10	8	254000 VA						
D-7	4	140900 VA						
D-8	1	34045 VA						
D-9	3	106620 VA						
D-11	1	35540 VA						
PH-6	1	39090 VA						
PH-7	1	40590 VA						
METER BANK E	69	2,143,840 VA	2144	23%	493	1370	0	1370
A-1	10	288900 VA						
A-2	8	231120 VA						
A-3	4	115860 VA						
B-2	4	117000 VA						
C-1S	4	126160 VA						
C-2S	8	254600 VA						
C-4	8	255920 VA						
C-7	1	31690 VA						
C-7 ADA	2	63380 VA						
C-10	4	127000 VA						
C-11	7	220360 VA						
D-6	2	65720 VA						
D-6 ADA	2	65720 VA						
E-1	4	138320 VA						
PH-9	1	42090 VA						
METER BANK FE	35	1,112,550 VA	1113	30%	334	927	0	927
B-1	3	87570 VA						
B-2	8	234000 VA						
C-2	12	381900 VA						
C-10	4	127000 VA						
D-2	3	105540 VA						
F-1	4	136100 VA						
PH-8	1	40440 VA						
METER BANK FW	36	1,159,720 VA	1160	30%	348	966	0	966
C-2	12	381900 VA						
C-2S	12	381900 VA						
C-10	8	254000 VA						
D-1	4	141920 VA						
METER BANK G2W	42	1,316,085 VA	1316	28%	369	1024	0	1024
A-1 ADA	2	57780 VA						
B-1	6	175140 VA						
C-1	17	536180 VA						
C-1S	1	31540 VA						
C-3	9	282645 VA						
C-5	2	63530 VA						
D-3	2	65360 VA						
D-4	1	32830 VA						
D-10	2	71080 VA						
METER BANK G3W	44	1,401,565 VA	1402	27%	378	1051	0	1051
A-1 ADA	2	57780 VA						
B-1	6	175140 VA						
C-1	16	504640 VA						
C-1S	2	63080 VA						
C-3	9	282645 VA						
C-5	2	63530 VA						
D-3	1	32680 VA						
D-4	2	65660 VA						
D-10	1	35540 VA						
PH-3	1	40290 VA						
PH-4	1	39690 VA						
PH-5	1	40890 VA						
METER BANK G4E	35	1,084,670 VA	1085	30%	325	904	0	904
A-1	12	346980 VA						
C-1S	16	504640 VA						
C-12	4	127180 VA						
D-5	3	106170 VA						

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
A	Disk Light	Halo	SLD612/8030/WH	jb/surface	white	1200 Lumen 3000K 15W LED	Wet Location
B	Patio light	WAC Lighting	WS-W190208-30-BZ	wall	bronze		
C	Exterior Lantern	Tech	700OWASP-930-36-D-H	wall	charcoal	48W 3000K LED	
D	Elevator Strip	Lithonia	GZ10 40K 80CRI	wall	white	6000 Lumen 50W	
E	Stair Strip	Lithonia	MNSL-L46 1LL MVOLT 40K	surface	white	20W 4000K LED	
F	5-blade fan, 3-spd	Modern Forms	FH-W1811-5	surface	72in	Comes with	Energy Star Rated
G	Recessed down light	HE Williams	8DR-L80-90-40K-120-0-W-CS-WET/CC	recessed	arch	6000Lumen 95W	
H	Ceiling Light	Progress	P-3649-3030K9	surface	white	9W 3000K LED	
J	Amenity and PH Recessed Can	HE Williams	2AR-L12-90-35-(EM/10W)-UNV-R-W-OF-WH-(WET)-N				
N	Closet Disk with Motion	Satco	62/1312	surface	white	16.5W LED 4000K 1050LM	with built in motion
R	Under-Cabinet Linear Strip	$100 ALLOW					
ID1	Decorative Pendant	Hinkley	Somerset Large HKL-3405HB	pendant	brass	15W 3000K LED	
ID2	Decorative Pendant	Hinkley	Somerset Medium 3407HB	pendant	brass	15W 3000K LED	
ID3	Wall Wash Cove Light	Apollo Lighting	SA-DLS-RGB	cove		20W	
ID4	Decorative Pendant	Artemide	S314	pendant	black/brass	3-5W 3000K LED	
ID5	Decorative Pendant	Kuzco	PD19359	pendant	TBD	88W 3000K LED	
ID6	Decorative Pendant	Avenue	HF8085-BB	pendant	brass	5-15W 3000K LED	
ID7	Decorative Pendant Club	Avenue	HF8088-BB	pendant	brass	8-15W 3000K LED	
ID8	Decorative Pendant	Nemo	Crown Plana Major	pendant	TBD	12-25W 3000K LED	
ID9	Decorative Pendant	Kichler	Keele 84324CG	pendant	gold	8W 3000K LED 550 lumen	
ID10	Amenity Decorative	Eurofase	39408-013	surface	black/gold	30W 3000K LED 1400 lumen	
ID11	Amenity Wall Sconce	Artemide	NH Wall	wall	black/gold	5W 3000K LED 378 lumen	
ID12	Amenity Restroom Vanity	Electric Mirror	Eminence	wall	TBD		
L1	Disk Light	Halo	SLD612/8030/WH	jb/surface	white	1200 Lumen 3000K 15W LED	Wet Location
L2	Shower Disk Light	Halo	SLD606/8030/WH	jb/surface	white	600 Lumen 3000K 10W LED	Wet Location
L3	Wall Light	WAC Lighting	Metro WS-180120-30-BN	surface	white	1-13W 3500K LED	
L4	Vanity Sconce	Brownlee	5178-24-BL-H-16-35K	wall	TBD	2-7W Edison 800 lumen	
L5	3-blade fan, 3-spd, rev. w/globe	Modern Forms	FH-W2004-44L	surface	TBD	13W LED	Energy Star Rated
L6	Disk Light 2"	Halo	SLDSL406/9S1EMWR	jb/surface	white	600 Lumen 3000K 8.6W LED	Wet Location
L7	String Light	Lightology	String Light G16 810054				
L9	Entry Sconce	Astro	1427015	wall	TBD	2-12W LED	
L10	Dining	Alora	Aryas - LP317460	surface	black/gold	30W 3000K LED 1400 lumen	
P1	Kitchen Pendant	Pablo Designs	BOLA 12 HALO	pendant	TBD	6W 2700K LED	
X1	Exit	Lithonia	LHQM-LED-R-HO-RO	surface	white/red	1.5W LED	
X2	Exit w/heads	Lithonia	LHQM-LED-R-HO	surface	white/red	1.5W LED	
X3	Dual-Head Emergency	Lithonia	ELM4L	surface	std	640 lumen	
X4	Exterior Remote Head	Lithonia	ELA-LED	surface	std	1W LED	
SL1	Bollard	McGraw Edison	GWC-AF-01-LED-E1-SL2-7030-BK	wall	black	5512 Lum 59W	14' AFF

ELECTRICAL PANEL SCHEDULE

PANEL: A1 THRU A4, B1, B2, B3 | 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
4-18 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	8
20	SPARE	20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: C4 THRU C12 | 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	40	2	1
17, 19	CONDENSING UNIT	25	2	1
2	LIGHTS AND RECEPTACLES	20	1	1
4-18 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	8
20	SPARE	20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: D3, D4, D6, D8 | 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	25	2	1
2, 21	LIGHTS AND RECEPTACLES	20	1	2
4-20 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	9
22, 23, 24	SPARE	20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: E2, E3 | 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	40	2	1
17, 19	CONDENSING UNIT	25	2	1
2	LIGHTS AND RECEPTACLES	20	1	1
4-18 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	8
20	SPARE	20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: C1, C2, C3 | 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	40	2	1
17, 19	CONDENSING UNIT	20	2	1
2	LIGHTS AND RECEPTACLES	20	1	1
4-18 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	8
20	SPARE	20	1	1

ELECTRICAL PANEL SCHEDULE

PANEL: D1, D2, D5, D7, D9, D10, D11 | 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

Panel: HD1

Location: | **Supply From:** MB "A1" | **Mounting:** | **Enclosure:**
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 42000 | **Mains Type:** M.B. | **Mains Rating:** 800 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	AHU-HD1	50 A	8	6665	340					12	20 A	Lighting STAIR D110	2
3						6665	1124			12	20 A	Lighting ELEV D-1 E-D-1	4
5	Other WORK ROOM D108	20 A	12					120	752	12	20 A	Lighting	6
7	Receptacle Space 540	20 A	12	180	50					12	20 A	Standard	8
9	Receptacle Space 540	20 A	12			180	1248			12	20 A	EUH-A	10
11	Lighting	20 A	12					120	1248				12
13	DSS-IT	25 A	10	1352	400					12	20 A	Receptacle	14
15						1352	400			12	20 A	Receptacle	16
17	Receptacle	20 A	12					400	900	12	20 A	Receptacle	18
19	Receptacle	20 A	12	360	360					12	20 A	Receptacle	20
21	EUH-C	20 A	12			1440	900			12	20 A	Receptacle	22
23	EUH-C	20 A	12					1440	180	12	20 A	Receptacle	24
25	Receptacle	20 A	12	180	180					12	20 A	Receptacle	26
27	Receptacle	20 A	12			540	5584			8	40 A	AHU-HD2	28
29	Receptacle	20 A	12					900	5584				30
31	Receptacle	20 A	12	720	360					12	20 A	Receptacle COFFEE D104	32
33							900			12	20 A	Receptacle	34
35									180	12	20 A	Receptacle	36
37	AHU-HD3	70 A	6	9907	388					12	20 A	Lighting Space 540	38
39						9907	70			12	20 A	Lighting	40
41	EF-D5	20 A	12					0	9907	6	70 A	AHU-HD4	42
43					9907								44
45													46
47													48
49				44842	28175								50
51	HD2	400 A				49249	12737				225 A	HA3	52
53								66680	23503				54
		Total Load:		104328 VA		92238 VA		111865 VA					
		Total Amps:		885 A		769 A		948 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	247893 VA	65.00%	161130 VA		
Lighting	8601 VA	125.00%	10751 VA	**Total Conn. Load:**	308379 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	218549 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	856 A
Receptacle	20400 VA	74.51%	15200 VA	**Total Est. Demand:**	607 A
Motor	21600 VA	100.00%	21600 VA		
Appliance	10000 VA	100.00%	10000 VA		
Lighting - Exterior	280 VA	125.00%	350 VA		

Notes:

Panel: HD2

Location: | **Supply From:** HD1 | **Mounting:** | **Enclosure:**
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **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	Lighting	20 A	12	808	108					12	20 A	Lighting	2
3	Receptacle RESTROOM...	20 A	12			540	13150			4	90 A	AHU-HD6	4
5	Receptacle HALL-1 D201-1	20 A	12					720	13150				6
7	Receptacle CLUBHOUSE...	20 A	12	180	2500					12	20 A	Appliance CLUBHOUSE D207	8
9	Appliance CLUBHOUSE D207	20 A	12			2500	2500						10
11								2500	0	12	20 A	Other CLUBHOUSE D207	12
13	Receptacle CLUBHOUSE...	20 A	12	360	540					12	20 A	Receptacle	14
15	Receptacle CLUBHOUSE...	20 A	12			900	1440			12	20 A	Receptacle CLUBHOUSE...	16
17	Receptacle CLUBHOUSE...	20 A						360	1260	12	20 A	Receptacle PRIVATE...	18
19	Power	20 A	12	180	180					12	20 A	Receptacle PRIVATE...	20
21	Receptacle	20 A				400	540			12	20 A	Receptacle PRIVATE...	22
23	Receptacle	20 A						400	540	12	20 A	Receptacle PRIVATE...	24
25	Lighting	20 A	12	512	512					12	20 A	Lighting	26
27	Lighting	20 A	12			400	360			12	20 A	Receptacle CLUBHOUSE...	28
29	Lighting	20 A	12					512	1440	12	20 A	EF-ROOF	30
31	Lighting	20 A	12	680	180					12	20 A	Receptacle HALL-1 D201-1	32
33	Lighting	20 A	12			668	360			12	20 A	Receptacle HALL-1 D201-1	34
35	AHU-HD7	50 A	8					6665	6665	8	50 A	AHU-HD8	36
37				6665	6665								38
39	Lighting HALL D401	20 A	12			668	9907			6	70 A	AHU-HD5	40
41								22587	9907				42
43	HD5	225 A	12	24781	120					12	20 A	Lighting	44
45						14980	0				20 A	Power HALL-1 D201-1	46
47													48
49													50
51													52
53													54
		Total Load:		44842 VA		49249 VA		66680 VA					
		Total Amps:		374 A		416 A		561 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	113862 VA	65.00%	74010 VA		
Lighting	5745 VA	125.00%	7182 VA	**Total Conn. Load:**	160767 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	122298 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	446 A
Receptacle	9800 VA	100.00%	9800 VA	**Total Est. Demand:**	339 A
Motor	21600 VA	100.00%	21600 VA		
Appliance	10000 VA	100.00%	10000 VA		

Notes:

Panel: HD5

Location: | **Supply From:** HD2 | **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-HD9	50 A	8	6665	0					12	20 A	Motor	2
3						6665	0						4
5	Motor	20 A	12					0	7200	4	80 A	ELEVATOR	6
7	Receptacle	20 A	12	180	7200								8
9	Lighting	20 A	12			120	7200						10
11	Lighting HALL D501	20 A	12					656	874	12	15 A	CU-HD9	12
13	CU-HD1	25 A	10	1435	874								14
15						1435	697			12	15 A	CU-HD2	16
17	CU-HD7	15 A	12					874	697				18
19				874	874					12	15 A	CU-HD8	20
21	CU-HD5	30 A	8			1570	874						22
23								1570					24
25													26
27													28
29													30
31					180					12	20 A	Receptacle	32
33	EF-ROOF	20 A	12			1920	1570			8	30 A	CU-HD4	34
35	CU-HD3	30 A	8					1570	1570				36
37				1570	2735					8	50 A	CU-HD6	38
39						2735							40
41													42
		Total Load:		22587 VA		24781 VA		14980 VA					
		Total Amps:		198 A		216 A		125 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	39648 VA	65.00%	25771 VA		
Lighting	776 VA	125.00%	970 VA	**Total Conn. Load:**	62346 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	48654 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	173 A
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	135 A
Motor	21600 VA	100.00%	21600 VA		

Notes:

Panel: HA3

Location: | **Supply From:** HD1 | **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	20 A	12	180	1248					12	20 A	EUH-A	2
3	EUH-A	20 A	12			1248	1248						4
5								1248	5584	8	40 A	AHU-HA1	6
7	AHU-HA2	40 A	8	5584	5584								8
9						5584	222			12	20 A	Lighting	10
11	AHU-HA3	40 A	8					5584	5584	8	40 A	AHU-HA4	12
13				5584	5584								14
15	DSS-STAIR	25 A	10			1612	1080				20 A	Receptacle	16
17								1612	697	12	15 A	CU-HA2	18
19	CU-HA1	15 A	12	697	697								20
21						697	697			12	15 A	CU-HA3	22
23	CU-HA4	15 A	12					697	697				24
25				697	1920					12	20 A	EF-ROOF	26
27	Receptacle Space 416	20 A	12			180	180			12	20 A	Receptacle Space 416	28
29	EF-ROOF	20 A	12					1440	360	12	20 A	Receptacle	30
31	Receptacle	20 A		400									32
33													34
35													36
37													38
39													40
41													42
		Total Load:		28175 VA		12737 VA		23503 VA					
		Total Amps:		249 A		106 A		210 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	61823 VA	65.00%	40185 VA		
Lighting	12 VA	125.00%	15 VA	**Total Conn. Load:**	64414 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	42829 VA
Receptacle	2380 VA	100.00%	2380 VA	**Total Conn.:**	179 A
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	119 A
Lighting - Exterior	210 VA	125.00%	263 VA		

Notes:

Panel: HB1

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

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	AHU-HB3A	40 A	8	3432	3432					8	40 A	AHU-HB3B	2
3						3432	3432						4
5	Receptacle	20 A	12					983	1248	12	20 A	EUH-A	6
7	Lighting	20 A	12	0	1248								8
9	Lighting	20 A	12			120	180			12	20 A	Receptacle HALL B101	10
11	EUH-A	20 A	12					1248	180	12	20 A	Receptacle HALL B101	12
13				1248	264					12	20 A	Other YOGA-1 B121-1	14
15	Receptacle	20 A	12			180	180			12	20 A	Receptacle	16
17	Receptacle	20 A	12					180	1248	12	20 A	EUH-A	18
19	Receptacle	20 A	12	180	1248								20
21	Receptacle	20 A	12			180	360			12	20 A	Receptacle FITNESS B120	22
23	Receptacle Space 416	20 A	12					180	676	12	20 A	Lighting	24
25	AHU-HB1	50 A	8	6665	508					12	20 A	Lighting	26
27						6665	180			12	20 A	Receptacle	28
29	Receptacle	20 A	12					180	5584	8	40 A	AHU-HB2	30
31	Receptacle Space 416	20 A	12	180	5584								32
33	Receptacle Space 416	20 A	12			180	496			12	20 A	Lighting HALL B201	34
35	AHU-HB4	50 A	8					6665	6443	8	40 A	AHU-HB5	36
37				6665	1248					12	20 A	EUH-A	38
39	Receptacle HALL C101	20 A	12			180	1248						40
41	Lighting HALL C201	20 A	12					12	43888				42
43	Lighting HALL B201	20 A	12	600	30449					12	225 A	HB4	44
45	Power HALL C201	20 A				0	27094						46
47	Lighting	20 A	12					488	12	12	20 A	Lighting	48
49	Lighting	20 A	12	560	180					12	20 A	Receptacle	50
51	Lighting ELEV C E-C	20 A	12			120	180			12	20 A	Receptacle	52
53	Receptacle HALL C101	20 A	12					180					54
		Total Load:		68345 VA		45979 VA		73550 VA					
		Total Amps:		598 A		383 A		642 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	153672 VA	65.00%	99887 VA		
Lighting	5600 VA	125.00%	7000 VA	**Total Conn. Load:**	187874 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	135563 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	521 A
Receptacle	6740 VA	100.00%	6740 VA	**Total Est. Demand:**	376 A
Motor	21600 VA	100.00%	21600 VA		
Lighting - Exterior	560 VA	125.00%	700 VA		

Notes:

Panel: HB1

Location: | **Supply From:** | **Mounting:** | **Enclosure:**
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 42000 | **Mains Type:** MLO | **Mains Rating:** 600 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
55	EUH-A	20 A	12	1248	0					12	20 A	Power TRASH 154	56
57						1248	0						58
59	Other TRASH 154	20 A	12					578	3120	8	35 A	EUH-B	60
61	EUH-B	35 A	8	3120	379					12	20 A	Other TRASH 155	62
63	Receptacle HALL E202	20 A	12			180	180			12	20 A	Receptacle	64
65	Lighting	20 A	12					120	400		20 A	Receptacle IT B104	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:		4747 VA		1608 VA		4212 VA					
		Total Amps:		43 A		13 A		38 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	8736 VA	65.00%	5678 VA		
Lighting	180 VA	125.00%	225 VA	**Total Conn. Load:**	10567 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	7552 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	29 A
Receptacle	1660 VA	100.00%	1660 VA	**Total Est. Demand:**	21 A

Notes:

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.22
Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2010043424
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

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LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
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LSA PROJECT NO. 2104043

SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E3.04

Panel: HB4

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: HB1 | **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				6665	400						20 A	Receptacle IT B404	2
3	AHU-HB8	50 A	8			6665	204			12	20 A	Lighting	4
5	DSS-STAIR	25 A	10					1612	1440	12	20 A	EF-ROOF	6
7				1612	874					12	15 A	CU-HB3B	8
9	CU-HB3A	25 A	10			1435	874						10
11								1435	1435	10	25 A	CU-HB8	12
13	CU-HB6	25 A	10	1435	1435								14
15						1435	1435			10	25 A	CU-HB4	16
17	CU-HB1	25 A	10					1435	1435				18
19				1435	697					12	15 A	CU-HB9	20
21	CU-HB7	15 A	12			697	697						22
23								697	697	12	15 A	CU-HB2	24
25	CU-HB5	15 A	12	697	697								26
27						697	180			12	20 A	Receptacle	28
29	Receptacle	20 A	12					180	1440	12	20 A	EF-ROOF	30
31	AHU-HB6	50 A	8	6665	6443					8	40 A	AHU-HB7	32
33						6665	508			12	20 A	Lighting HALL B302	34
35	Lighting HALL B302	20 A	12					588	340	12	20 A	Lighting	36
37	Lighting	20 A	12	340	7200								38
39	Motor	20 A	12			0	7200			4	80 A	ELEVATOR	40
41	Receptacle	20 A	12					180	7200				42
43	Lighting HALL C401	20 A	12	120	1612					10	25 A	DSS-STAIR	44
45	Receptacle	20 A	12			180	1612						46
47	EF-ROOF	20 A	12					1440	5584	8	40 A	AHU-HB9	48
49					5584								50
51													52
53													54
		Total Load:		43888 VA		30449 VA		27094 VA					
		Total Amps:		370 A		258 A		226 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	76713 VA	65.00%	49863 VA		
Lighting	2100 VA	125.00%	2625 VA	**Total Conn. Load:**	101430 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	75082 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	282 A
Receptacle	1120 VA	100.00%	1120 VA	**Total Est. Demand:**	208 A
Motor	21600 VA	100.00%	21600 VA		

Notes:

Panel: HC1

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: SWGR 1 | **Phases:** 3 | **Mains Type:** MB
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	20 A	12	388	5584								2
3	Receptacle HALL C102	20 A	12			180	5584			8	40 A	AHU-HC1	4
5	Receptacle HALL C102	20 A	12					180	180	12	20 A	Receptacle HALL C102	6
7	AHU-HC2	50 A	8	6665	24					12	20 A	Lighting	8
9						6665	11098						10
11	EUH-A	20 A	12					1248	18817	12	100 A	HC4	12
13				1248	11536								14
15	EUH-B	35 A	8			2704	2704						16
17								2704	2704	8	35 A	EUH-B	18
19	Lighting	20 A	12	597	0					12	20 A	Power TRASH 153	20
21	Receptacle HALL E203	20 A	12			180	0						22
23	Receptacle MECH C103	20 A						400					24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		26022 VA		29114 VA		26233 VA					
		Total Amps:		217 A		243 A		219 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	77835 VA	65.00%	50593 VA		
Lighting	1172 VA	125.00%	1465 VA	**Total Conn. Load:**	81369 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	54406 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	226 A
Receptacle	2420 VA	100.00%	2420 VA	**Total Est. Demand:**	151 A
Motor	0 VA	0.00%	0 VA		

Notes:

Panel: HC4

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: HC1 | **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	AHU-HC3	50 A	8	6665	300					12	20 A	Lighting	2
3						6665	6665			8	50 A	AHU-HC4	4
5	Lighting	20 A	12					400	6665				6
7	Receptacle	20 A	12	180	1435					10	25 A	CU-HC3	8
9	CU-HC4	25 A	10			1435	1435						10
11								1435	1435	10	25 A	CU-HC2	12
13	CU-HC1	15 A	12	697	1435								14
15						697	1920			12	20 A	EF-ROOF	16
17	Receptacle	20 A	12					180	1440	12	20 A	EF	18
19	Receptacle MECH C403	20 A		400									20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		11098 VA		18817 VA		11536 VA					
		Total Amps:		92 A		157 A		97 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	40025 VA	65.00%	26016 VA		
Lighting	700 VA	125.00%	875 VA	**Total Conn. Load:**	41450 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	27609 VA
Receptacle	760 VA	100.00%	760 VA	**Total Conn.:**	115 A
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	77 A

Notes:

Panel: RW

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: SWGR 2 | **Phases:** 3 | **Mains Type:** M.B.
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													2
3	Receptacle	20 A	12			720	0			12	20 A	Lighting	4
5	Lighting	20 A	12					0	720	12	20 A	Receptacle Space 441	6
7	Receptacle Space 441	20 A	12	720	540					12	20 A	Receptacle	8
9	Receptacle Space 441	20 A	12			1440	0			12	20 A	Lighting	10
11	Receptacle HALL-1 D201-1	20 A	12					180	360	12	20 A	Receptacle Space 441	12
13	Receptacle HALL D202	20 A	12	180	180					12	20 A	Receptacle HALL D202	14
15	TEMP ELEC. HEATER	50 A	8			4368	4368			8	50 A	TEMP ELEC. HEATER	16
17								4368	4368				18
19	TEMP ELEC. HEATER	50 A	8	4368	4368					8	50 A	TEMP ELEC. HEATER	20
21						4368	4368						22
23	TEMP ELEC. HEATER	50 A	8					4368	4368	8	50 A	TEMP ELEC. HEATER	24
25				4368	4368								26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		19092 VA		19632 VA		18732 VA					
		Total Amps:		160 A		164 A		156 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	52416 VA	65.00%	34070 VA		
Lighting	0 VA	0.00%	0 VA	**Total Conn. Load:**	57456 VA
Receptacle	5040 VA	100.00%	5040 VA	**Total Est. Demand:**	39110 VA
				Total Conn.:	159 A
				Total Est. Demand:	109 A

Notes:

Panel: HE1

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: SWGR 3 | **Phases:** 3 | **Mains Type:** M.B.
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	352	900					12	20 A	Receptacle LOBBY E101	2
3	Receptacle	20 A	12			180	180			12	20 A	Receptacle	4
5	Lighting	20 A	12					120	1440	12	20 A	EUH-A	6
7	Lighting STAIR E110	20 A	12	552	1560					12	20 A	Other WATER SERVICE E106	8
9	AHU-HE1	70 A	6			9907	1560						10
11								9907	0	12	20 A	Power MOVE-IN 105E	12
13	Power MOVE-IN E105	20 A	12	0	1440					12	20 A	EUH-C	14
15	Receptacle	20 A	12			540	440			12	20 A	Lighting	16
17	Lighting	20 A	12					12	180	12	20 A	Receptacle HALL E201	18
19	AHU-HE2	50 A	8	6665	180					12	20 A	Receptacle HALL E202	20
21						6665	180			12	20 A	Receptacle HALL E201	22
23	Receptacle HALL E201	20 A	12					180	180	12	20 A	Receptacle HALL E203	24
25	Lighting	20 A	12	12	12					12	20 A	Lighting	26
27	AHU-HE3	50 A	8			6665	20			12	20 A	Lighting HALL E502	28
29								6665	7200				30
31	Receptacle	20 A	12	180	7200					4	80 A	ELEVATOR	32
33	Motor	20 A	12			0	7200						34
35	DSS-STAIR	25 A	10					1612	1570	10	30 A	CU-HE1	36
37				1612	1570								38
39	HE5	225 A	12			17368	0				20 A	Power HALL E201	40
41								12940	400		20 A	Receptacle MECH E204	42
43				11289									44
45													46
47													48
49													50
51													52
53													54
		Total Load:		33479 VA		50883 VA		42400 VA					
		Total Amps:		279 A		435 A		365 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	95454 VA	65.00%	62045 VA		
Lighting	1544 VA	125.00%	1930 VA	**Total Conn. Load:**	126762 VA
Other	3120 VA	100.00%	3120 VA	**Total Est. Demand:**	93721 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	352 A
Receptacle	5120 VA	100.00%	5120 VA	**Total Est. Demand:**	260 A
Motor	21600 VA	100.00%	21600 VA		

Notes:

Panel: HE5

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 4200
Supply From: HE1 | **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	Receptacle HALL D401	20 A	12	180	180					12	20 A	Receptacle HALL D401	2
3	Receptacle	20 A	12			900	1440			12	20 A	EF-ROOF	4
5	Receptacle MECH E404	20 A						400					6
7	AHU-HE4	50 A	8	6665	12					12	20 A	Lighting HALL E502	8
9						6665	12			12	20 A	Lighting HALL E502	10
11	AHU-HE5	50 A	8					6665	480	12	20 A	EF-R15	12
13				6665	1920					12	20 A	EF-ROOF	14
15	Receptacle	20 A	12			180	1435						16
17	CU-HE3	15 A	12					874	1435	10	25 A	CU-HE2	18
19				874	874								20
21	CU-HE4	25 A	10			1435	874			12	15 A	CU-HE5	22
23								1435					24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		17368 VA		12940 VA		11289 VA					
		Total Amps:		147 A		110 A		94 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	39735 VA	65.00%	25828 VA		
Lighting	24 VA	125.00%	30 VA	**Total Conn. Load:**	41598 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	27696 VA
Receptacle	1840 VA	100.00%	1840 VA	**Total Conn.:**	115 A
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	77 A

Notes:

PARAGON STAR
NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.22
Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER PE-2010020644
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
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LSA PROJECT NO. 2104043

SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E3.05

Panel: RE

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: SWGR 4 | **Phases:** 3 | **Mains Type:** MB
Mounting: | **Wires:** 4 | **Mains Rating:** 200 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	800 360			12	20 A	Receptacle	2
3	Receptacle	20 A	12		540 4368		8	50 A	TEMP ELEC. HEATER	4
5	TEMP ELEC. HEATER	50 A	8			4368 4368				6
7				4368 0			12	20 A	Lighting	8
9	Receptacle Space 443	20 A	12		1440 4368		8	50 A	TEMP ELEC. HEATER	10
11	Lighting	20 A	12			0 4368				12
13	Receptacle Space 443	20 A	12	360 4368			8	50 A	TEMP ELEC. HEATER	14
15					4368					16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
		Total Load:		10256 VA	15084 VA	13104 VA				
		Total Amps:		85 A	129 A	113 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	34944 VA	65.00%	22714 VA		
Lighting	800 VA	125.00%	1000 VA	**Total Conn. Load:**	38444 VA
Receptacle	2700 VA	100.00%	2700 VA	**Total Est. Demand:**	26414 VA
				Total Conn.:	107 A
				Total Est. Demand:	73 A

Notes:

Panel: HF1

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: SWGR 4 | **Phases:** 3 | **Mains Type:** MB
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	EUH-A	20 A	12	1248 120			12	20 A	Lighting STAIR F110	2
3					1248 2704		8	35 A	EUH-B	4
5	Other	20 A	12			296 2704				6
7	Lighting	20 A	12	12 6665			8	50 A	AHU-HF1	8
9	Receptacle Space 1168	20 A	12		180 6665					10
11	Receptacle Space 1168	20 A	12			180 180	12	20 A	Receptacle Space 1168	12
13	Receptacle Space 1168	20 A	12	180 12			12	20 A	Lighting	14
15	AHU-HF2	50 A	8		6665 12749					16
17						6665 18129	12	100 A	HF5	18
19	Lighting	20 A		0 9477						20
21	Receptacle MECH F202	20 A			400					22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
		Total Load:		17707 VA	30611 VA	28152 VA				
		Total Amps:		148 A	268 A	248 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	74316 VA	65.00%	48306 VA		
Lighting	288 VA	125.00%	360 VA	**Total Conn. Load:**	76470 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	50528 VA
Power	0 VA	0.00%	0 VA	**Total Conn.:**	212 A
Receptacle	1880 VA	100.00%	1880 VA	**Total Est. Demand:**	140 A
Motor	0 VA	0.00%	0 VA		

Notes:

Panel: HF5

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: HF1 | **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	AHU-HF3	50 A	8	6665 12			12	20 A	Lighting	2
3					6665 6665		8	50 A	AHU-HF4	4
5	Lighting	20 A	12			12 6665				6
7	DSS-STAIR	25 A	10	1612 1440			12	20 A	EF-ROOF	8
9					1612 1440		12	20 A	EF-ROOF	10
11	Receptacle	20 A	12			180 874	12	15 A	CU-HF2	12
13	CU-HF1	15 A	12	874 874						14
15					874 874		12	15 A	CU-HF3	16
17	CU-HF4	15 A	12			874 874				18
19				874 400				20 A	Receptacle MECH F402	20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
		Total Load:		12749 VA	18129 VA	9477 VA				
		Total Amps:		110 A	155 A	79 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	39753 VA	65.00%	25839 VA		
Lighting	24 VA	125.00%	30 VA	**Total Conn. Load:**	40355 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	26448 VA
Receptacle	580 VA	100.00%	580 VA	**Total Conn.:**	112 A
Motor	0 VA	0.00%	0 VA	**Total Est. Demand:**	73 A

Notes:

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
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Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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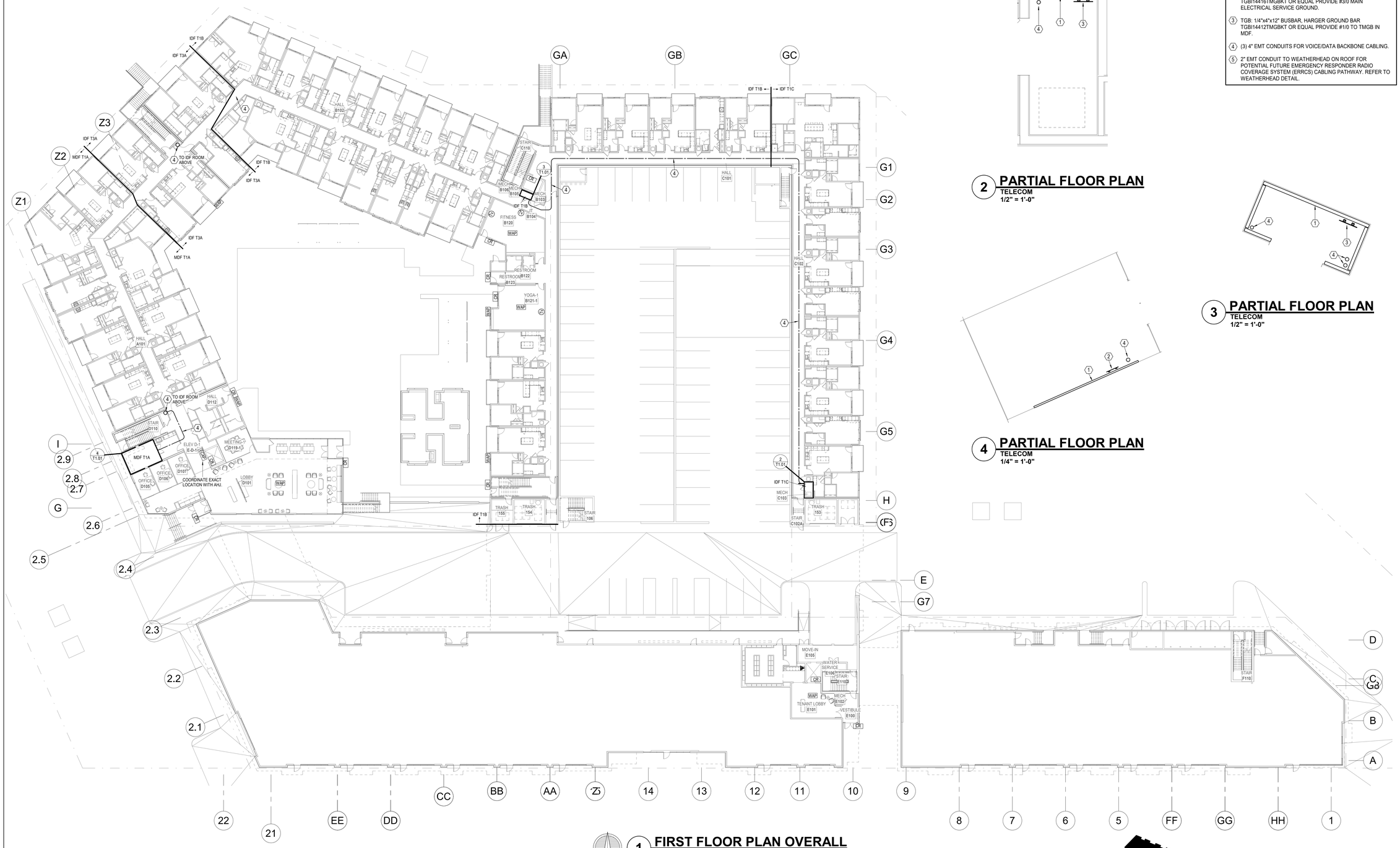
LSA PROJECT NO.: 2104043

SHEET TITLE

PANEL SCHEDULES

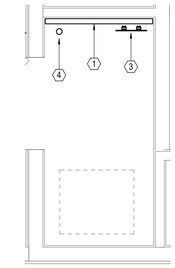
SHEET NUMBER

E3.06



NORTH

1 FIRST FLOOR PLAN OVERALL
TELECOM
1" = 20'-0"



2 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"

3 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"

4 PARTIAL FLOOR PLAN
TELECOM
1/4" = 1'-0"

LEGEND:

1. PROVIDE 3/4"X4'X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6' AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF; LOW GLOSS, LIGHT COLORED PAINT.
2. TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
3. TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGBI14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
4. (3) 4" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
5. 2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.

PARAGON STAR NORTH VILLAGE

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REVISIONS

No.	Date	Description
2	07.11.22	ADDENDUM 1
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2009018744
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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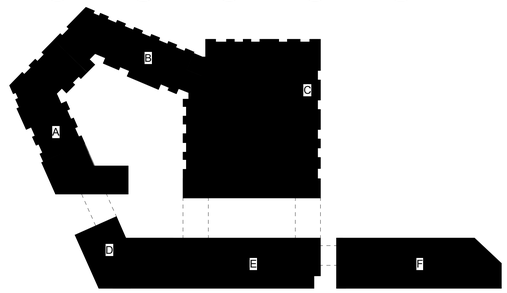
LSA PROJECT NO. 2104043

SHEET TITLE

OVERALL FIRST FLOOR PLAN

SHEET NUMBER

T1.01



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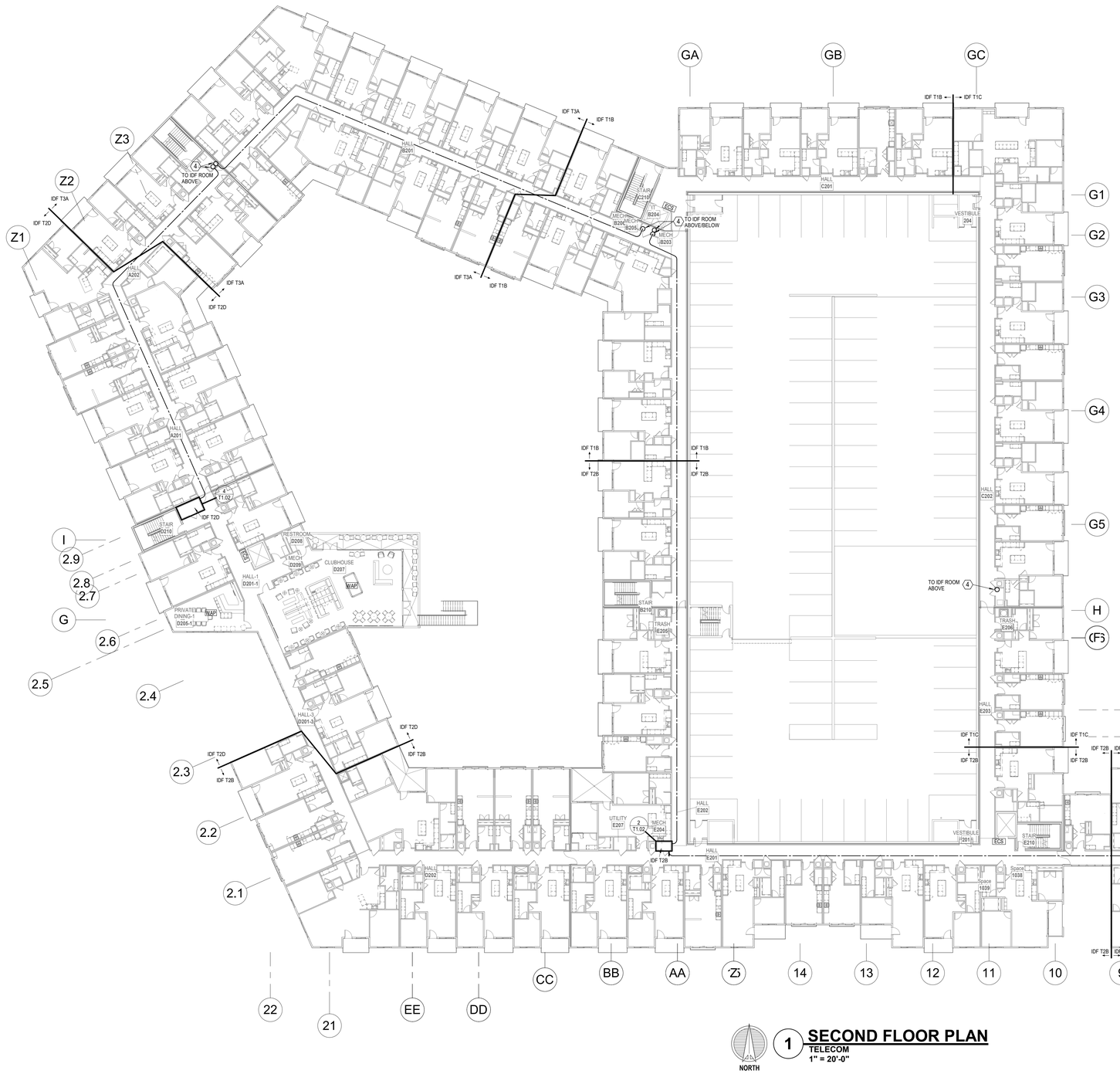
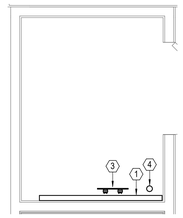


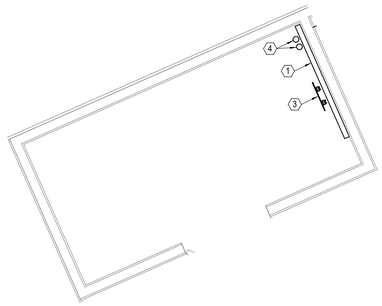
1 SECOND FLOOR PLAN
TELECOM
1" = 20'-0"

NORTH

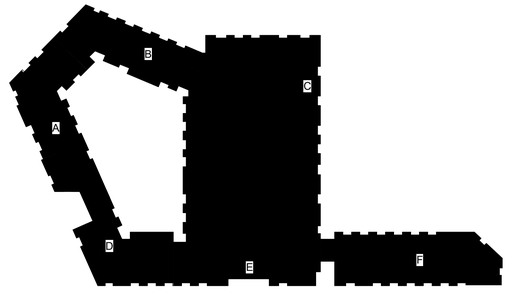
2 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"



3 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"



4 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"



PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEABOUT
NUMBER 2010018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

OVERALL SECOND FLOOR PLAN

SHEET NUMBER

T1.02

LEGEND:

1. PROVIDE 3/4"X4'X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF; LOW GLOSS, LIGHT COLORED PAINT.
2. TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
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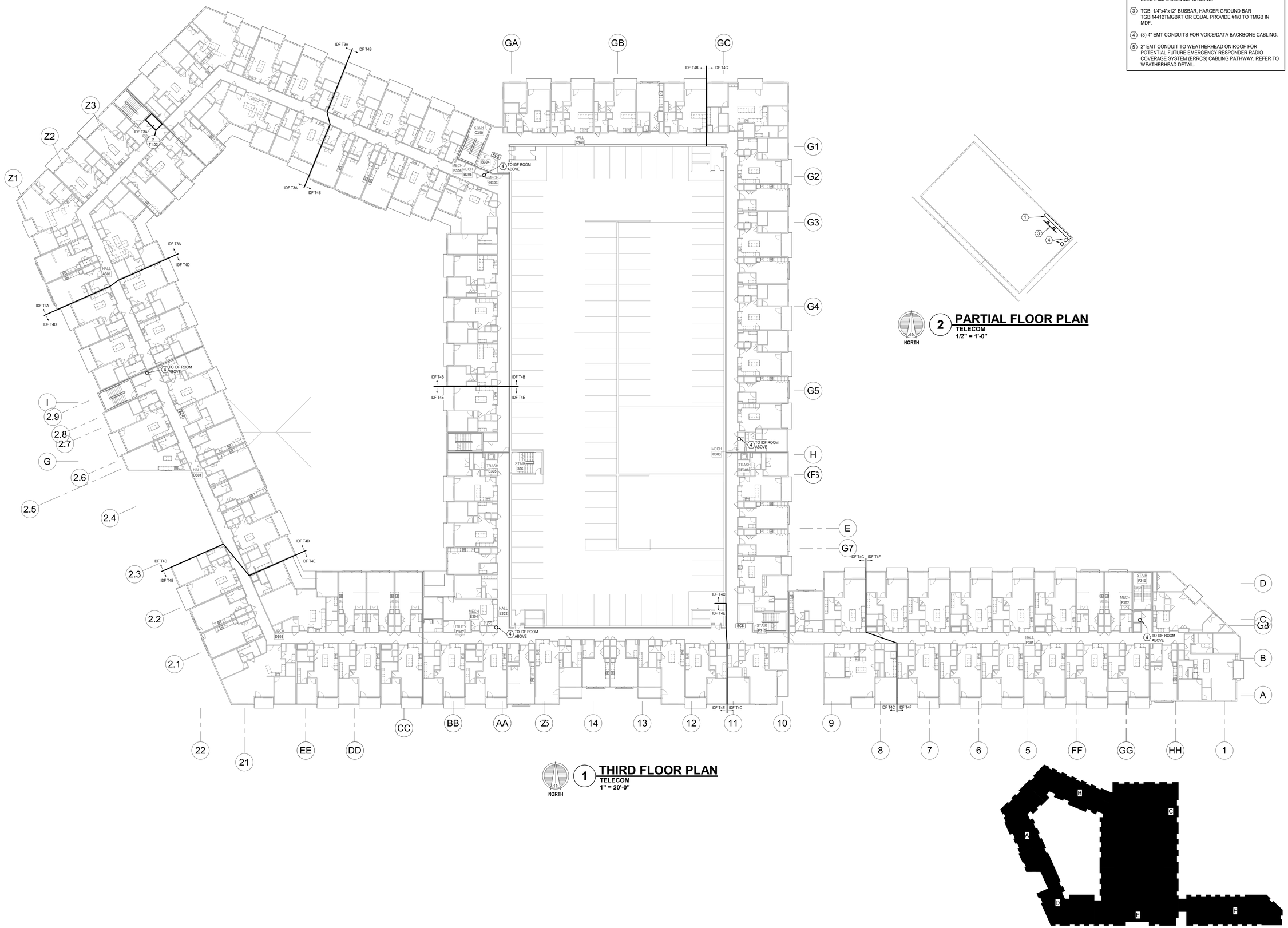

NORTH

1 THIRD FLOOR PLAN

TELECOM

1" = 20'-0"

NORTH

2 PARTIAL FLOOR PLAN

TELECOM

1/2" = 1'-0"

PARAGON STAR NORTH VILLAGE

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3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAPDMORE
NUMBER
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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LSA PROJECT NO. 2104043

SHEET TITLE

OVERALL THIRD FLOOR PLAN

SHEET NUMBER

T1.03

LEGEND:

1. PROVIDE 3/4"X4'X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF; LOW GLOSS, LIGHT COLORED PAINT.
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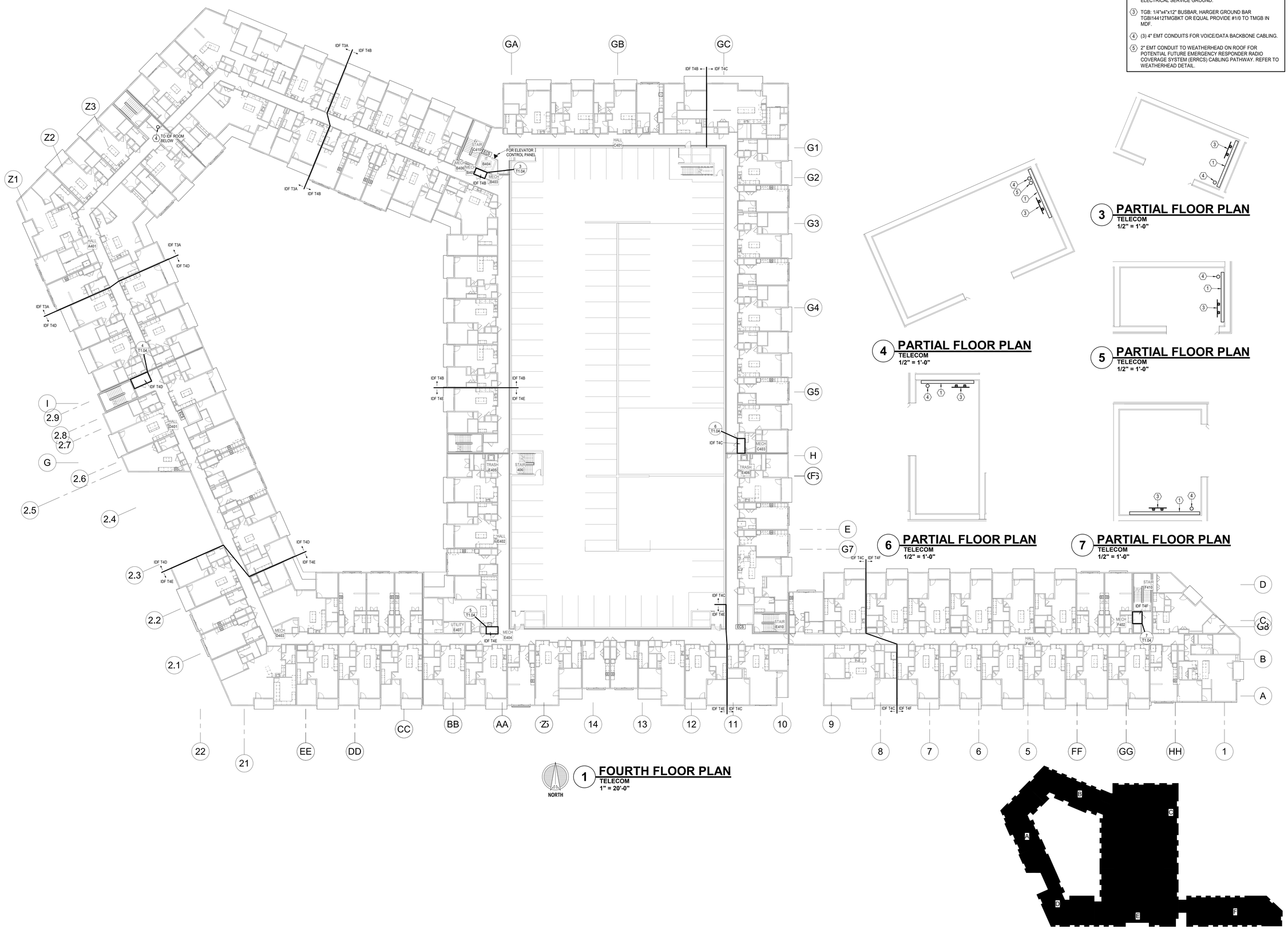

1 FOURTH FLOOR PLAN
TELECOM
1" = 20'-0"

4 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"

3 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"

5 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"

6 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"

7 PARTIAL FLOOR PLAN
TELECOM
1/2" = 1'-0"

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
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REVISIONS

No.	Date	Description
3	07.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2009018755
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

LS&A
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Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104043

SHEET TITLE

OVERALL FOURTH FLOOR PLAN

SHEET NUMBER

T1.04

LEGEND:

1. PROVIDE 3/4"X4'X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF; LOW GLOSS, LIGHT COLORED PAINT.
2. TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI1441 6TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
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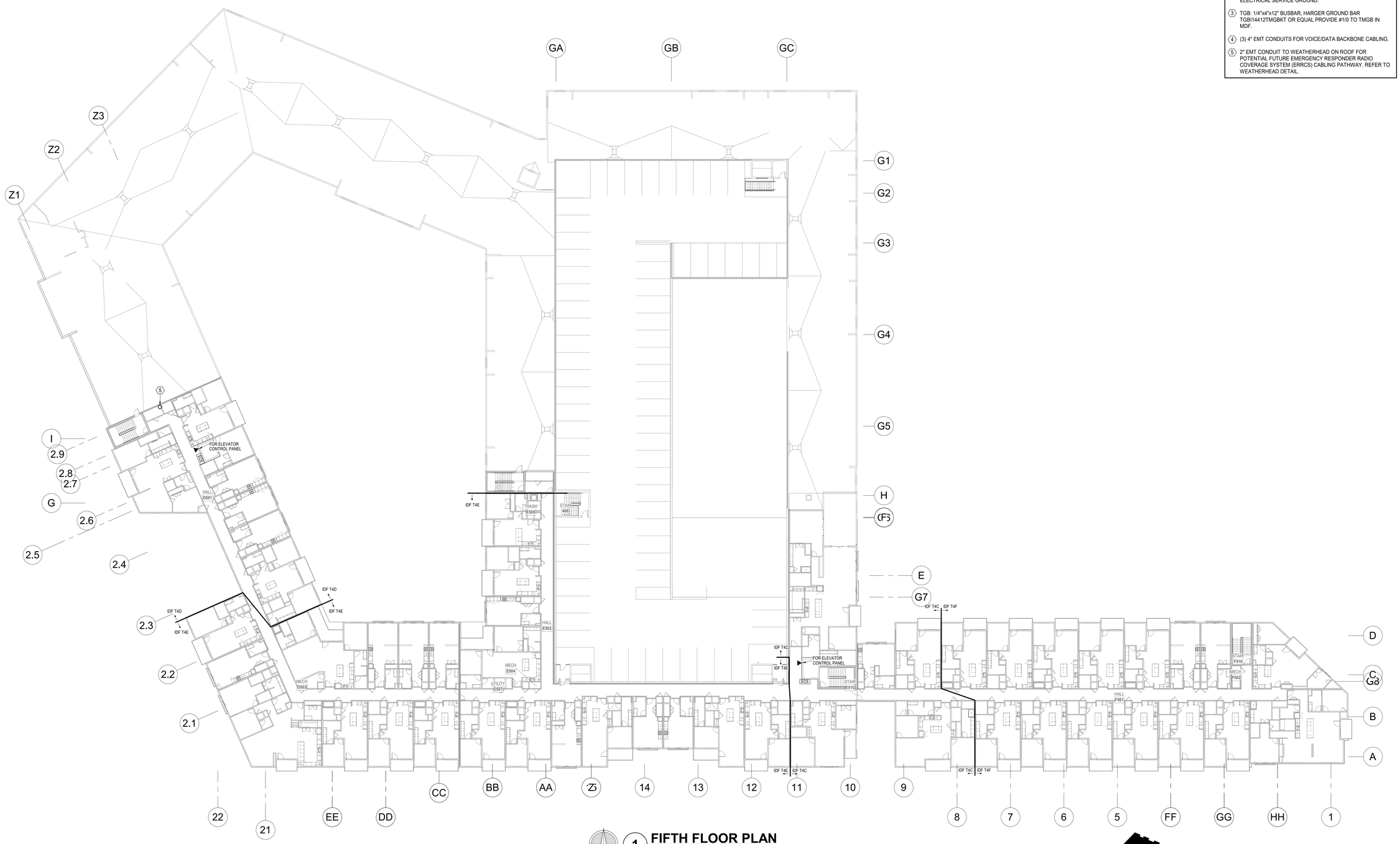
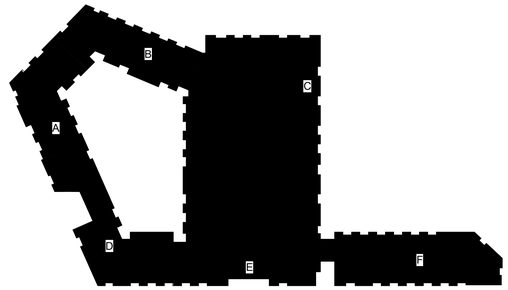


NORTH

1 FIFTH FLOOR PLAN
TELECOM
1" = 20'-0"



PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.22
Issued For:	FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER 2010018751
PROFESSIONAL ENGINEER

7/20/2022

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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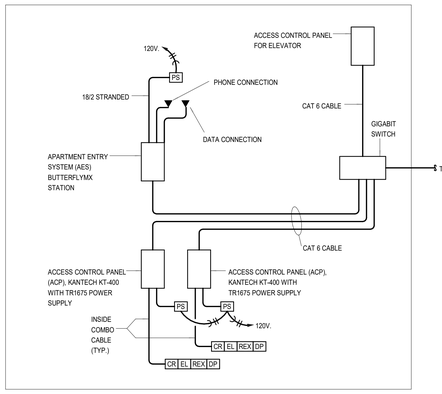
LSA PROJECT NO. 2104043

SHEET TITLE

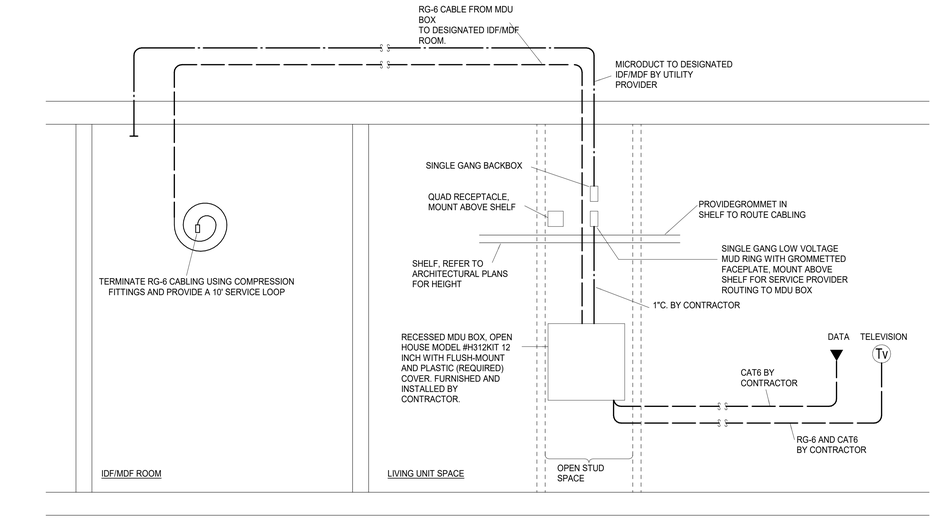
OVERALL FIFTH FLOOR PLAN

SHEET NUMBER

T1.05



1 TYPICAL ACCESS CONTROL PANEL DETAIL
NOT TO SCALE



2 TYPICAL APARTMENT RISER DIAGRAM
NOT TO SCALE

NOTES:

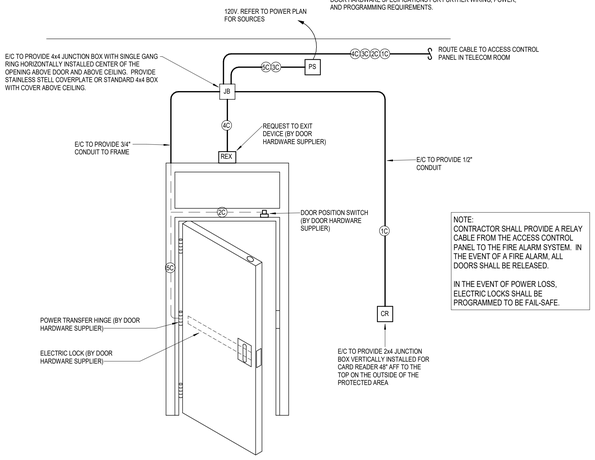
A. DISTRIBUTED ANTENNA SYSTEM: IF BUILDING DOES NOT MEET INTERNATIONAL FIRE CODE (IFC) 510 REQUIREMENTS, CONTRACTOR SHALL INSTALL AND CERTIFY A COMPLIANT IN-BUILDING PUBLIC SAFETY DISTRIBUTED ANTENNA SYSTEM (DAS) ALSO CALLED AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS). THE SYSTEM SHALL INCLUDE, BUT NOT LIMITED TO ALL EQUIPMENT, MATERIALS, LABOR, DOCUMENTATION AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE, OPERATIONAL PUBLIC SAFETY DAS OR ERRCS. ALL WORK TO BE CONDUCTED OR SUPERVISED BY A QUALIFIED SYSTEM INTEGRATOR WITH EXPERIENCE DESIGNING, TESTING, INSTALLING, CERTIFYING AND MAINTAINING EMERGENCY RESPONDER RADIO COVERAGE SYSTEMS. A PRELIMINARY TEST OF EXISTING, UNAMPLIFIED IN-BUILDING RADIO FREQUENCY (RF) SIGNAL COVERAGE SHALL BE CONDUCTED AT 80% CONSTRUCTION COMPLETION PRIOR TO DESIGN AND INSTALLATION OF SYSTEM. TESTING SHALL BE CONDUCTED WITH THE LATEST TEST EQUIPMENT AND ANALYTICS SOFTWARE VERSIONS AVAILABLE. CONTRACTOR SHALL PROVIDE $3,000 ALLOWANCE FOR TESTING AND $25,000 ALLOWANCE FOR SYSTEM INSTALL.

CABLE LEGEND:	
1C	PROX/MITY CARD READER (ORANGE) 18GA./6 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.
2C	MAGNETIC SWITCH (WHITE) 18GA./2 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.
3C	ELECTRIC LOCK (GRAY) 18GA./4 COND. TWISTED OVEERALL SHIELD, RISER RATED CABLE.
4C	REQUEST TO EXIT (BLUE) 18GA./4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.
5C	ELECTRIC LOCK FROM PS TO PUSHBAR 18GA./4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.

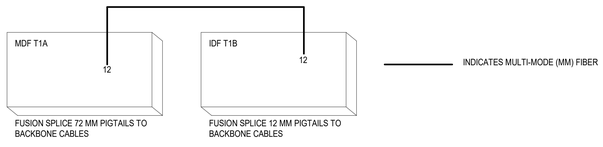
ACCESS CONTROL CABLE SCHEDULE:	
1C/2C/3C/4C	BELDEN MODEL #538AFS
5C	BELDEN MODEL #5302FE

ACCESS CONTROL DEVICE LEGEND:	
ACP	ACCESS CONTROL PANEL
CR	HID CARD READER
REX	REQUEST TO EXIT *
DP	DOOR POSITION SWITCH *
EL	ELECTRIC LOCK (24V. DC) *
PS	POWER SUPPLY (24V. DC) *
ADA	ADA PUSHBUTTON *
DADA	DUAL ADA PUSHBUTTON*
ADAM	ADA MOTORIZED OPERATOR *
VMS	VIDEO INTERCOM MASTER STATION
VIC	VIDEO INTERCOM

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



5 TYPICAL ACCESS DOOR DETAIL
NOT TO SCALE

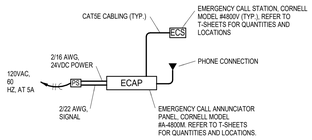


3 FIBER BACKBONE CABLE TERMINATION DETAIL
NOT TO SCALE

4 TYPICAL COMMON/OFFICE AREA RISER DIAGRAM
NOT TO SCALE

TWO-WAY COMMUNICATION SYSTEM SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
ECAP	CORNELL	A-4800M	EMERGENCY CALL ANNUNCIATOR PANEL	1, 4
ECS	CORNELL	4800V	EMERGENCY CALL STATION	2, 4
PS	CORNELL	B-5248A	POWER SUPPLY	3

REMARKS:
1 - PROVIDE POWER SUPPLIES AS REQUIRED. PROVIDE WITH STI MODEL #STI-7521 NEMA 4X CLEAR ENCLOSURE WITH THUMB LOCK.
2 - PROVIDE WITH DOUBLE GANG BACKBOX AND STI MODEL #STI-7511E CLEAR ENCLOSURE WITH THUMB LOCK.
3 - VERIFY SIZE OF POWER SUPPLY WITH LAYOUT OF THE SYSTEM.
4 - VERIFY LOCATION WITH AHJ.



6 TWO-WAY COMMUNICATION DIAGRAM
NOT TO SCALE

ACCESS CONTROL CABLE SCHEDULE				
MARK	MANUFACTURER	MODEL/PART NUMBER	DESCRIPTION	REMARKS
1C/2C/3C/4C	BELDEN	538AFS	INSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1
3C	BELDEN	5302UE	ELECTRIC LOCK CABLE 18 GA 4 COND STRANDED	1, 2
6C	CSC	759218	OUTSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1

REMARKS:
1 - PROVIDED AND INSTALLED BY E/C.
2 - E/C TO ROUTE CABLE FROM DEVICE AND LEAVE A 8'-0" SERVICE LOOP AT THE BURGLAR ALARM PANEL. PROVIDE A 24" SERVICE LOOP AT DEVICE. PROVIDE A MECHANICALLY PRINTED LABEL ON EACH END OF EACH CABLE FOR REFERENCE.
3 - PROVIDED AS A PART OF THE DOOR HARDWARE PACKAGE.

SECURITY SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
CR	HID	RP40	CARD READER	
ACP	KANTECH	KT400	ACCESS CONTROL PANEL	3
	HID		FOBs	1

REMARKS:
1 - VERIFY QUANTITY WITH OWNER.
2 - DOUBLE POLE, DOUBLE THROW FOR ACCESS CONTROL AND BURGLAR ALARM.
3 - PROVIDE QUANTITIES SHOWN ON PLANS.

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.22
Issued For: FOR CONSTUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER 2010021010
PROFESSIONAL ENGINEER
7/20/2022

PROJECT TEAM

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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SHEET TITLE

TELECOM DETAILS

SHEET NUMBER

T2.01