

HVAC ABBREVIATIONS AND LEGEND

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					$\sqrt{2}$	EXHAU	ST FAN	N SCH	IED L	JLE			
									ELECTF	RICAL DATA			
	MARK	LOCATION	TYPE	CFM	APPROX. S.P.	DRIVE	FAN RPM	WATTS	H.P.	VOLTAGE/PHASE	MANUFACTURER	ACCESSORIES	CONTROLS
	EF-1	BATHROOM	EXHAUST	80	0.25"	DIRECT W/ SPEED CONTROLLER	950	80	-	120/1	GREENHECK SP-B110	A, B, E, F, G	1
	EF-2	RES. STORAGE	EXHAUST	100	0.25	DIRECT W/ SPEED CONTROLLER	1350	-	1/64	120/1	GREENHECK SE1-8-DGEX-QD	A, B, E. H	2
	F-1	ROOF - IL	EXHAUST	300	0.375"	DIRECT W/ SPEED CONTROLLER	1050	-	1/4	120/1	GREENHECK GB-081-4	A, B, C, D	2
	F-2	ROOF - ATRIUM	EXHAUST	150	0.375"	DIRECT W/ SPEED CONTROLLER	1550	-	1/20	120/1	GREENHECK G-080-D	A, B, C, D	2
	SEVF-1	ROOF - ATRIUM	SMOKE EVACUATION	20,420	0.3	DIRECT W/ ECM	377	-	5	208/3	GREENHECK CUBE-480-VG-50	A, B, C, D	3
	SEVF-2	ROOF - ATRIUM	SMOKE EVACUATION	20,420	0.3	DIRECT W/ ECM	377		5	208/3	GREENHECK CUBE-480-VG-50	A, B, C, D	3
	SEVF-3	ROOF - ATRIUM	SMOKE EVACUATION	20,420	0.3	DIRECT W/ ECM	377		5	208/3	GREENHECK CUBE-480-VG-50	A, B, C, D	3
Г		•				•					•		

B: GRAVITY BACKDRAFT DAMPER C: PREFAB ROOF CURB

1: WALL MOUNTED ON/OFF SWITCH (PROVIDE INDIVIDUAL CONTROL FOR BOTH FAN AND

2: CONTINUOUS OPERATION

D: BIRDSCREEN E: HANGING BRACKETS WITH VIBRATION ISOLATION F: EXHAUST GRILLE G: RADIATION DAMPER H: WEATHER HOOD

3. INTERFACE W/ FIRE ALARM SYSTEM AND SMOKE DETECTORS IN SPACE.

								ROC	F TOP UN	NIT SCHE	DULE (D	X CC	OLING	& NAT G	SAS H	IEA ⁻	Γ)							
					COOLING	CAPACITY	EFFIC	IENCY	HEATING	CAPACITY	EFFICIENCY		COMPRESSOR (EA)	COND.	FM	EVAP. FM	COMB. FAN		POWER S	UPPLY			
MARK	CFM	NOMINAL TONAGE	O.A. CFM	E.S.P	TC (BTUH)	SHC (BTUH)	EER	SEER	INPUT (BTUH)	OUTPUT (BTUH)	AFUE	NO	RLA	SYS.KW	QTY	FLA	FLA	FLA	MCA	MOCP	VOLTAGE/PH	WEIGHT	MANUFACTURER	RTU MODEL
RTU-1	3970	12.5	400	1.5"	134,520	95,310	10.8	15.8	250,000	202,500	81%	2	28.4 / 14.10	16.14	1	4.3	11.0	1	71.0	90.0	208/3	1627 LBS.	TRANE	YHJ150A3
RTU-2	3970	12.5	400	1.5"	134,520	95,310	10.8	15.8	250,000	202,500	81%	2	28.4 / 14.10	16.14	1	4.3	11.0	1	71.0	90.0	208/3	1627 LBS.	TRANE	YHJ150A3
RTU-3	5200	15.0	1040	1.5"	161,000	134,200	11.9	12.5	320,000	260,000	81%	2	30.8 / 16.4	16.36	2	2.3	8.9	1	83.0	110.0	208/3	2502 LBS.	TRANE	YHJ180A3

. 18" HIGH ROOF CURE . SUPPLY FAN VFD 3. NON-FUSED, UNIT MOUNTED DISCONNECT SWITCH POWER EXHAUST FAN

6. FAN MOTORS WITH SHAFT GROUNDING RINGS 7. SINGLE SOURCE POWER CONNECTION 8. SZ VAV CONTROL W/ HOT GAS REHEAT COIL

		VE	RTI	CAL PACKA	GED TEF	RMIN	IAL A	AIR C	ONE	OITIC	NER	UN	TS (THR	U WALL)	
			OA	NOMINAL COOLING	HEATING CAP	COMPR	RESSOR	OUTSI	DE FAN	INDO	OR	POV	VER SUP	PLY	MANUFACTURER MODEL	
MARK	CFM	ESP	CFM	CAPACITY (BTUH)	(BTUH)	RLA	LRA	HP	RLA	HP	RLA	MCA	МОСР	V/P		MODEL
VPTAC-1	630	0.5	100	18,000	24,500	6.7	37.5	1/8	0.9	1/3	1	34.3	35	208/1	MAGIC-PAK	7MCE4-12-181FP
VPTAC-2	800	0.5	100	24,000	24,500	8.7	38	1/8	0.9	1/3	1.8	34.8	35	208/1	MAGIC-PAK	7MCE4-12-241FP
VPTAC-3	930	0.5	100	30,000	32,700	13.4	72.5	1/4	1.6	1/2	1.2	45.2	50	208/1	MAGIC-PAK	10MCE-12-301FP

1. UNIT OA FLOW RATE SHALL BE BALANCED TO MATCH COMBINED DWELLING UNIT BATHROOM EXHAUST RATE, OR MAXIMUM UNIT OA CAPACITY, WHICHEVER IS LOWER.

		GRILLE & DIFF	USER S	CHEDU	JLE	
MARK	SERVICE	DESCRIPTION	FACE SIZE	NECK SIZE	CFM	BASIS OF DESIGN MANUF. AND MODEL
CD-1	SUPPLY	DOUBLE DEFLECTION		8X4	0 - 120	PRICE: 520-FR
CD-2	SUPPLY	DOUBLE DEFLECTION		8X6	125 - 180	PRICE: 520-FR
CD-3	SUPPLY	DOUBLE DEFLECTION		10X6	185 - 220	PRICE: 520-FR
CD-4	SUPPLY	PLAQUE	24X24	8"	0 - 175	PRICE: SPD
CD-5	SUPPLY	PLAQUE	24X24	10"	180 - 270	PRICE: SPD
CD-6	SUPPLY	DOUBLE DEFLECTION		14X8	275 - 390	PRICE: 520
CR-1	RETURN OR EXHAUST	SINGLE DEFLECTION		8X6	60 - 130	PRICE: 530
CR-2	RETURN OR EXHAUST	SINGLE DEFLECTION W/ FILTER		28X12	400-1000	PRICE: 630FF
CR-3	RETURN OR EXHAUST	EGG CRATE W/ FILTER	24X24	22X22	890 - 1400	PRICE: 80FF
CR-4	RETURN OR EXHAUST	SINGLE DEFLECTION W/ FILTER		14X28	490 - 1225	PRICE: 630FF
CR-5	RETURN OR EXHAUST	SINGLE DEFLECTION W/ FILTER		40X24	1250 - 3125	PRICE: 630
CR-6	RETURN OR EXHAUST	SINGLE DEFLECTION W/ FILTER		10X12	200 - 550	PRICE: 630FF
CR-7	RETURN OR EXHAUST	EGG CRATE	46 X 46	44 x 44	3500 +	PRICE: 82

			E	LECTF	RIC HEAT	ΓER		
					HEATER			
MARK	LOCATION	BTUH	CFM	KW	AMPS	VOLTAGE/PH	MANUFACTURE - MODEL	ACCESSORIES
EWH-1	STAIRCASE	10,200	245	3.0	14.4	208/1	MARKEL - MODEL F3423T	A,B,C,D

1. HEATING CAPACITY BASED ON 65°F. E.A.T.

B: BUILT-IN THERMOSTAT C: ARCHITECTURAL PENCIL PROOF LOUVER D: CABINET FOR SURFACE MOUNTING

			L	OUVER	SCHEDUL	E
MARK	CFM	WIDTH (IN)	HEIGHT (IN)	FREE AREA (%)	PRRESSURE DROP (IN. WG)	BASIS OF DESIGN
L-1	10000	72	48	63	0.06	RUSKIN FLF6350DMP

CONTRACTOR NOTE:

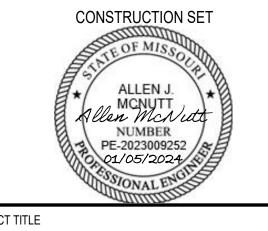
THE LISTED MANUFACTURER'S AND EQUIPMENT HAVE BEEN USED AS THE BASIS OF DESIGN OF THIS PROJECT AND ARE LISTED TO ESTABLISH A STANDARD OF QUALITY AND TO DEFINE CONNECTION AND CLEARANCE REQUIREMENTS. ALL OTHER MANUFACTURERS AND EQUIPMENT OF EQUAL OR BETTER QUALITY MAY BE ACCEPTED UPON REVIEW BY THE ENGINEER, HOWEVER, IF THESE SUBSTITUTIONS ARE MADE, THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL REQUIREMENTS OF DIVISION 1, ASSUME FULL RESPONSIBILITY FOR ALL COORDINATION ISSUES, AND SHALL SUBMIT WITH THE SHOP DRAWINGS A DETAILED DRAWING SHOWING ALL CHANGES IN THE EQUIPMENT SIZE AND LOCATION, DUCTWORK, PIPING, ELECTRICAL WIRING CONNECTIONS, CLEARANCES, ETC. IF ANY REQUIRED CHANGES INVOLVE OTHER TRADES, THE MECHANICAL SUBCONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWINGS A LETTER INDICATING THAT THE OTHER TRADES HAVE BEEN ADVISED OF THE PROPOSED CHANGES AND SHALL ALSO INCLUDE A STATEMENT AS TO HOW, BY WHOM, AND THE ARRANGEMENT WHEREBY THESE CHANGES WILL BE ACCOMPLISHED. ALL ADDITIONAL COSTS AND PERFORMANCE ISSUES RESULTING FROM THE SUBSTITUTION WILL BE THE RESPONSIBILITY OF THE MECHANICAL SUBCONTRACTOR. THE SUBSTITUTED EQUIPMENT WILL NOT BE PERMITTED TO ADD ELECTRICAL LOAD TO THE PROJECT.

HVAC GENERAL NOTES

- 1. FOR GENERAL AND ARCHITECTURAL ABBREVIATIONS AND SYMBOLS, SEE SHEET A0.0
- 2. DUCT WORK INSTALLATION, CONNECTIONS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE SMACNA STANDARDS.
- 3. EQUIPMENT INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. COPY OF INSTRUCTIONS SHALL BE ON JOB SITE AT TIME OF
- 4. DUCT DIMENSIONS INDICATED ARE ACTUAL SHEET METAL SIZES. WHERE ACOUSTIC LINING IS INDICATED (IF SHOWN), THE DUCT SIZES WERE ADJUSTED TO
- 5. DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC. ALL DROPS, RISES, OR OFFSETS REQUIRED BUT NOT SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST TO
- 6. DUCT CONNECTIONS TO SIDE WALL OR DUCT MOUNTED REGISTERS AND GRILLES SHALL BE MADE WITH RIGID DUCT. DUCT CONNECTIONS TO CEILING-MOUNTED DIFFUSERS, REGISTERS, AND GRILLES MAY BE WITH RIGID OR FLEXIBLE DUCT (CONTRACTOR OPTION). PROVIDE SMOOTH BENDS IN FLEXIBLE DUCT SECTIONS.
- 7. ALL TEMPERATURE AND HUMIDITY SENSORS (NON-SPACE ADJUSTABLE) IN PUBLIC AREAS SHALL BE MOUNTED AT 5'-0" AFF. THERMOSTATS FOR NON-PUBLIC, NON-RESIDENTIAL AREAS SHALL BE MOUNTED AT 5'-0" AFF WITH AN 18" LONG LOOP OF SURPLUS CONTROL WIRE IN WALL CAVITY TO PERMIT THE OWNER TO LOWER THE CONTROL DEVICE IN THE FUTURE IF REQUIRED FOR HANDICAP ACCESS. MOUNT THERMOSTATS AT 48" AFF IN ALL AREAS DESIGNATED AS "ADA-HANDICAP
- 8. ALL DUCTWORK SHALL BE SEALED ACCORDING TO SMACNA CLASS "A". DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING PRESSURE SEVF-1 EXHAUST AND ROOFTOP AC UNITS ±2", ALL OTHER SUPPLY, RETURN, AND EXHAUST: ±1".
- 9. DUCT CONNECTIONS TO ALL AIR HANDLING UNITS, INCLUDING FAN COIL UNITS, INLINE FANS, ETC. SHALL BE MADE USING FLEXIBLE DUCT CONNECTION. ALSO, PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCTWORK CROSSES BUILDING EXPANSION JOINTS.
- 10. LOCATE CEILING AIR DIFFUSERS, REGISTERS AND GRILLES IN THE CENTER OF 2'x2' AND AT THE QUARTER POINT OF 2'x4' ACOUSTICAL TILE CEILING MODULES UNLESS SPECIFICALLY INDICTED OTHERWISE ON THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER TO DIFFUSER, REGISTER, AND GRILLE EQUIPMENT INSTRUCTIONS RELATED TO RADIATION DAMPERS AND FIRE-RATED CEILING INSTALLATIONS.
- 11. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS, THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL MECHANICAL WORK,
- INCLUDING PLUMBING AND FIRE PROTECTION. 12. HEATING/COOLING DESIGN CONDITIONS: <u>LEE'S SUMMIT, MISSOURI</u> WINTER 5°F OAT, 75°F, 35% RH INDOORS (ADJUSTED HIGHER THAN ASHRAE TEMPERATURE TO ACCOMMODATE ELDERLY RESIDENTS.)

SMOKE RATED WALL, FLOOR AND ROOF/CEILING ASSEMBLIES.

- SUMMER 100.0°F DB/80.0°F WB OAT; 75°F, 50% RH INDOORS 13. WHERE MORE THAN ONE SIDE WALL REGISTER IS INSTALLED IN A ROOM, THE CENTERLINE ELEVATION OF EACH REGISTER SHALL BE THE SAME DISTANCE FROM AND LEVEL TO THE PLANE OF THE CEILING.
- 14. MANY OF THE CEILING SPACES ARE EXTREMELY CONGESTED AND WILL REQUIRE SIGNIFICANT ON-SITE FIELD COORDINATION BETWEEN THE CONSTRUCTION TRADES, CONTRACTOR GENERATED COORDINATION DRAWINGS ARE REQUIRED FOR ALL SUCH AREAS AND SHOULD INDICATE STRUCTURE, CEILING FEATURES. LIGHT FIXTURES, PLUMBING AND FIRE SERVICE PIPING AND ALL MECHANICAL EQUIPMENT, PIPING AND DUCTWORK.
- 15. ALL PIPE AND DUCT PENETRATIONS THRU FIRE-RATED WALLS OR FLOOR ASSEMBLIES SHALL BE IN ACCORDANCE WITH AN APPROVED UL AND FIRESTOP SYSTEM FOR THE CONDITIONS ENCOUNTERED AS DEFINED IN THE UL BUILDING MATERIAL DIRECTORY.
- 16. THE ROUTING OF LARGER SIZE SUPPLY AIR DUCTS SHALL TAKE PRECEDENCE OVER SMALLER DUCTS, AND OVER RETURN AND EXHAUST AIR DUCTS. PROVIDE DUCT OFFSETS, RISES AND DROPS AS REQUIRED TO INSTALL DUCTWORK AS CLOSELY TO THE LAYOUT SHOWN ON THESE DOCUMENTS AS POSSIBLE. 17. SEE ARCHITECTURAL FIRE PROTECTION DRAWINGS FOR DETAILS OF FIRE AND SMOKE SEALING REQUIREMENTS AT PENETRATIONS OF ALL UL LISTED FIRE AND



PROJECT TITLE



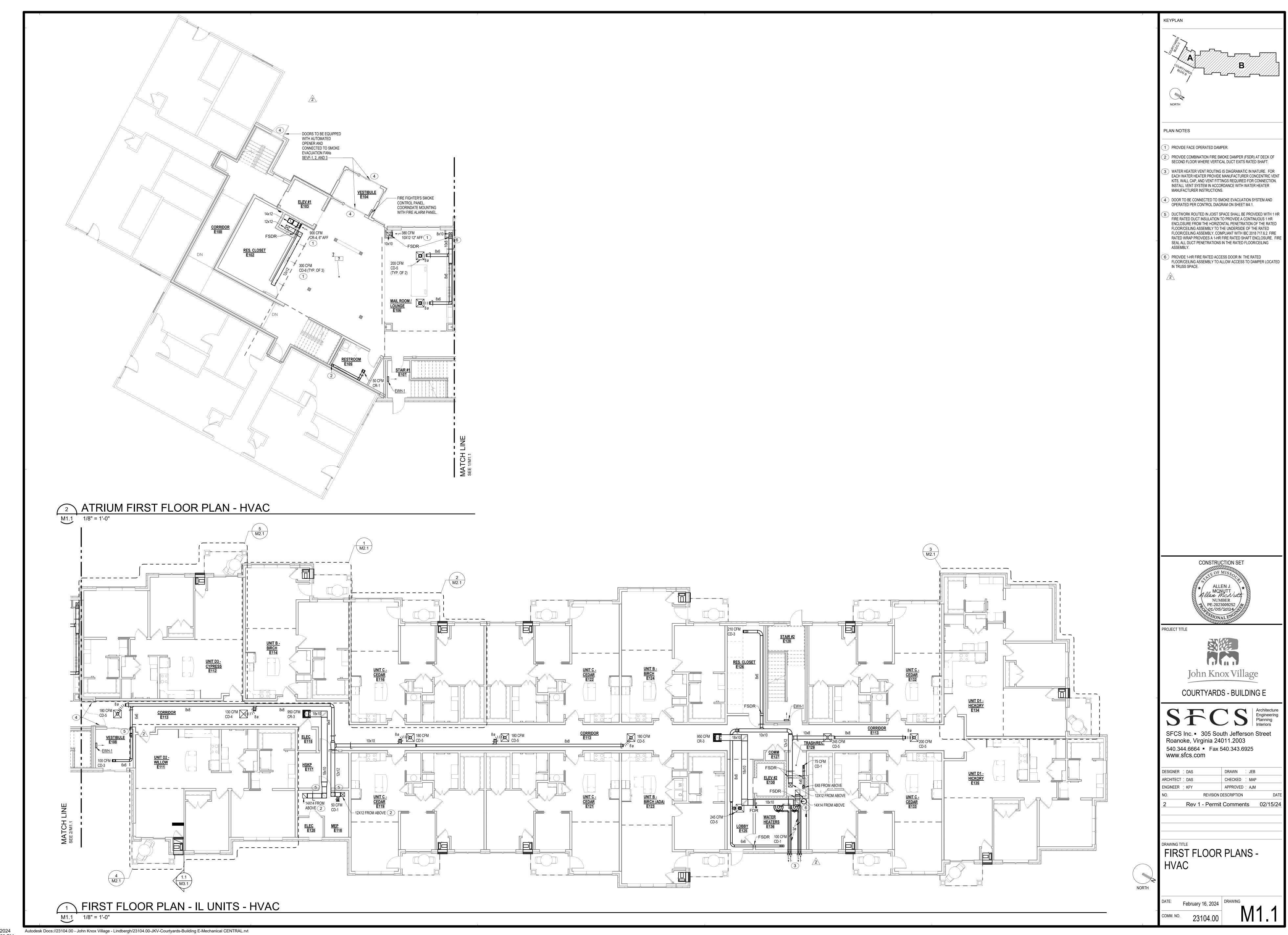
COURTYARDS - BUILDING E

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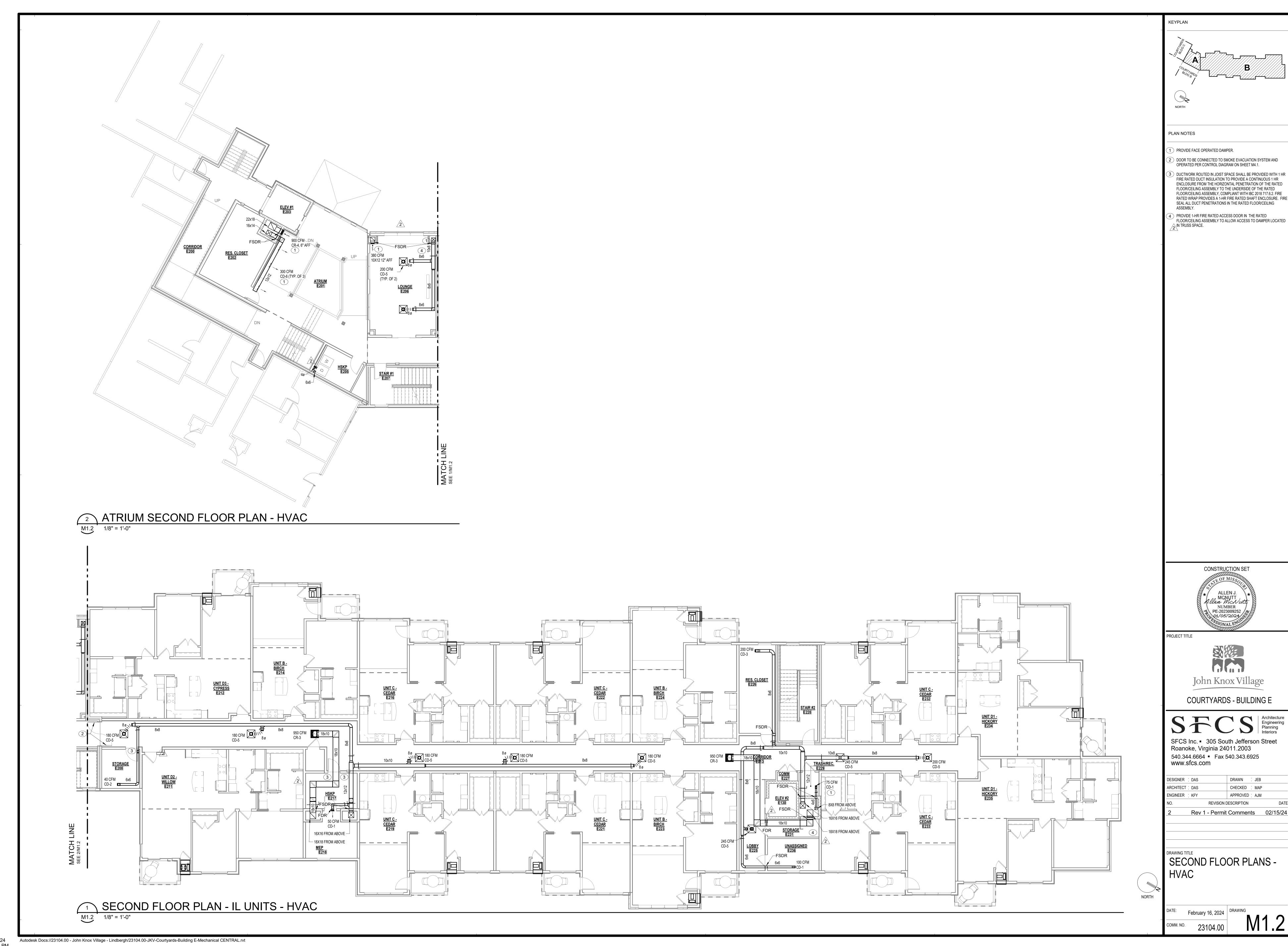
DESIGNER :	DAS	DRAWN ; JEB	
ARCHITECT :	DAS	CHECKED : MAP	
ENGINEER :	KFY	APPROVED : AJM	
NO.	REVISION D	DESCRIPTION	DATE
2	Rev 1 - Permit	Comments	02/15/24

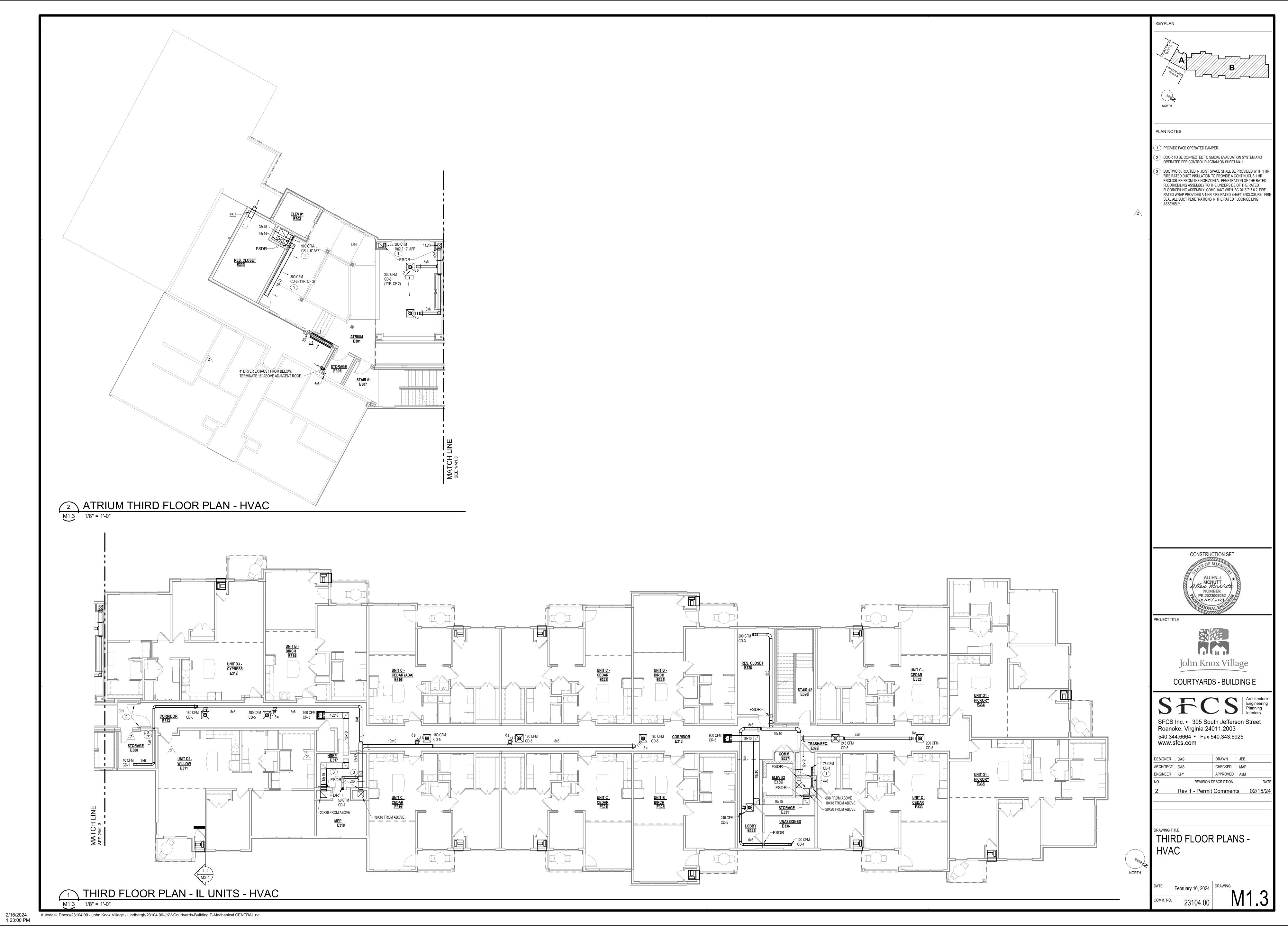
ABBREVIATIONS, LEGENDS, NOTES, AND

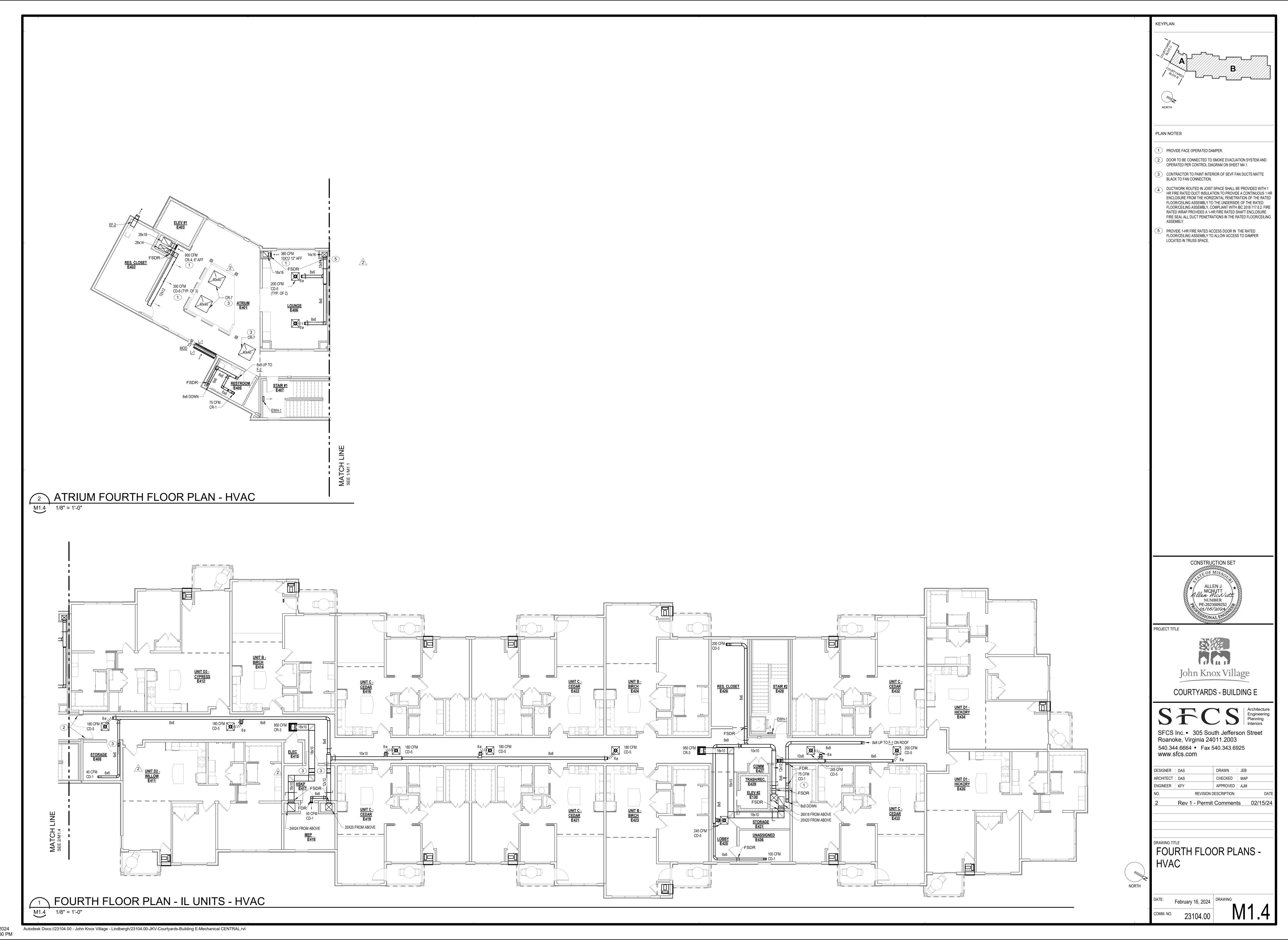
February 16, 2024 DRAWING



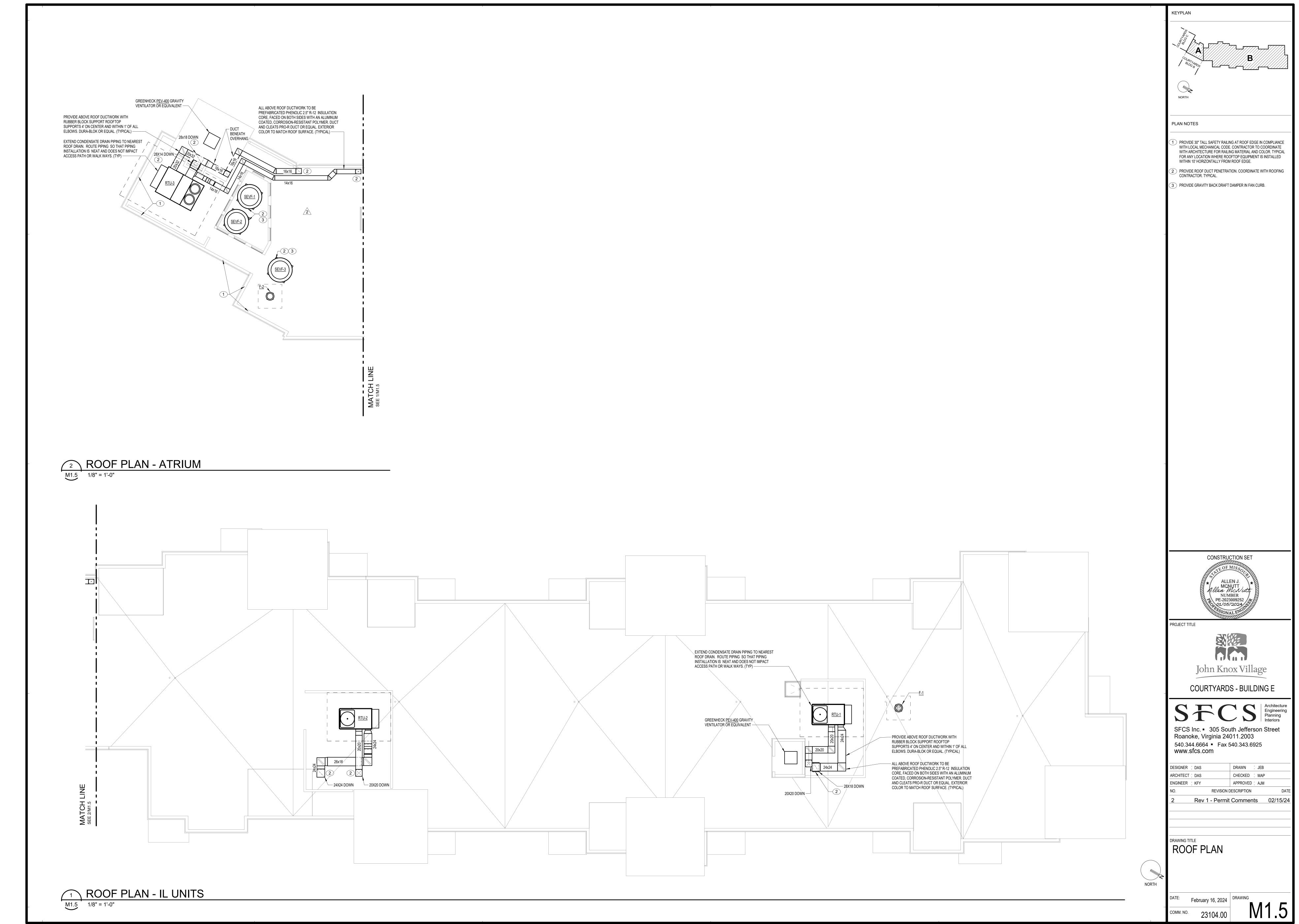
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4 EXTERIOR WALL LOUVER PROVIDED WITH UNIT EXHAUST WALL CAP \neg EXHAUST WALL CAP 90 CFM CD-1 PRIMARY BEDROOM E469 DINING ROOM E476 8X6 CD-2 ABOVE DOOR, BOTH FACES 5 UNIT D3 - HVAC

M2.1 1/4" = 1'-0"

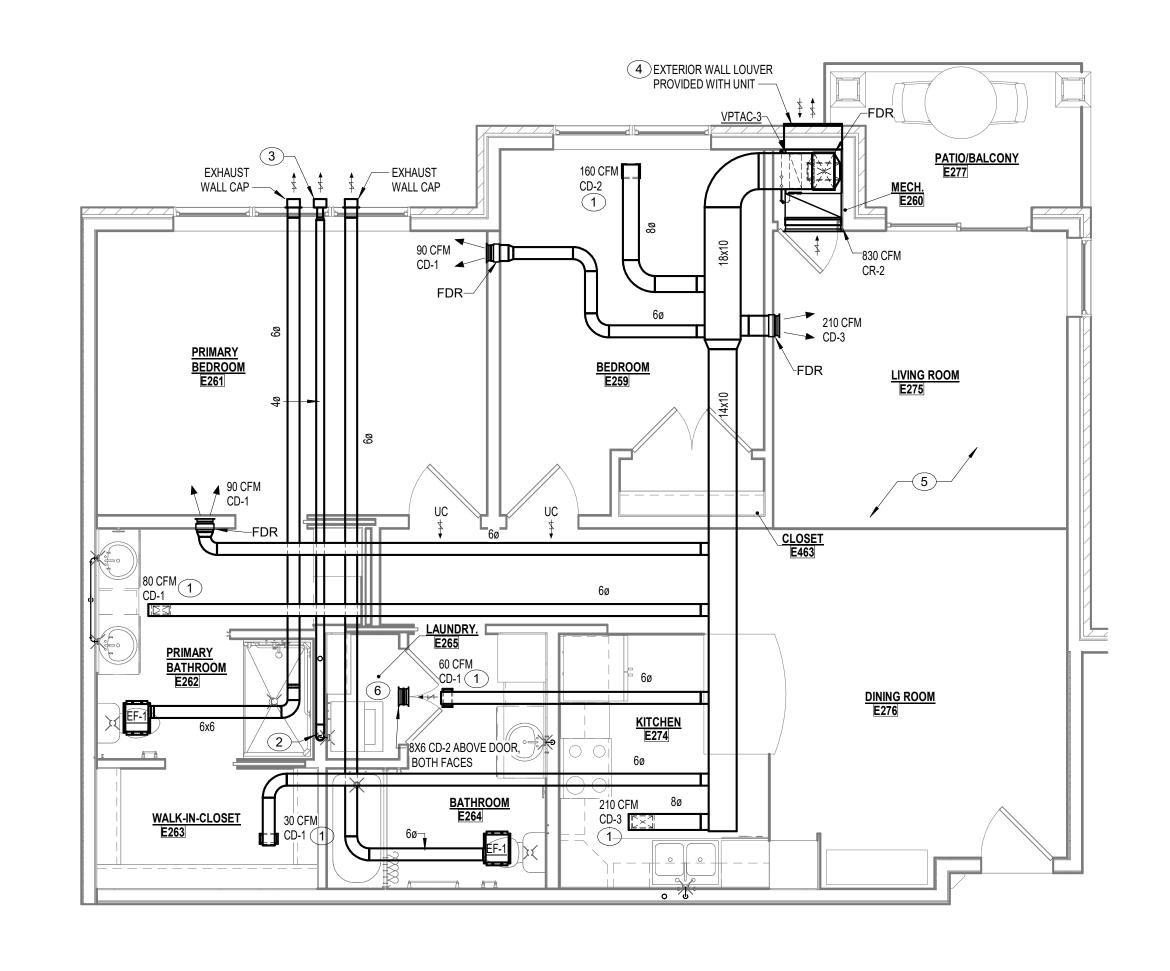
4 UNIT D2 - HVAC M2.1 1/4" = 1'-0"

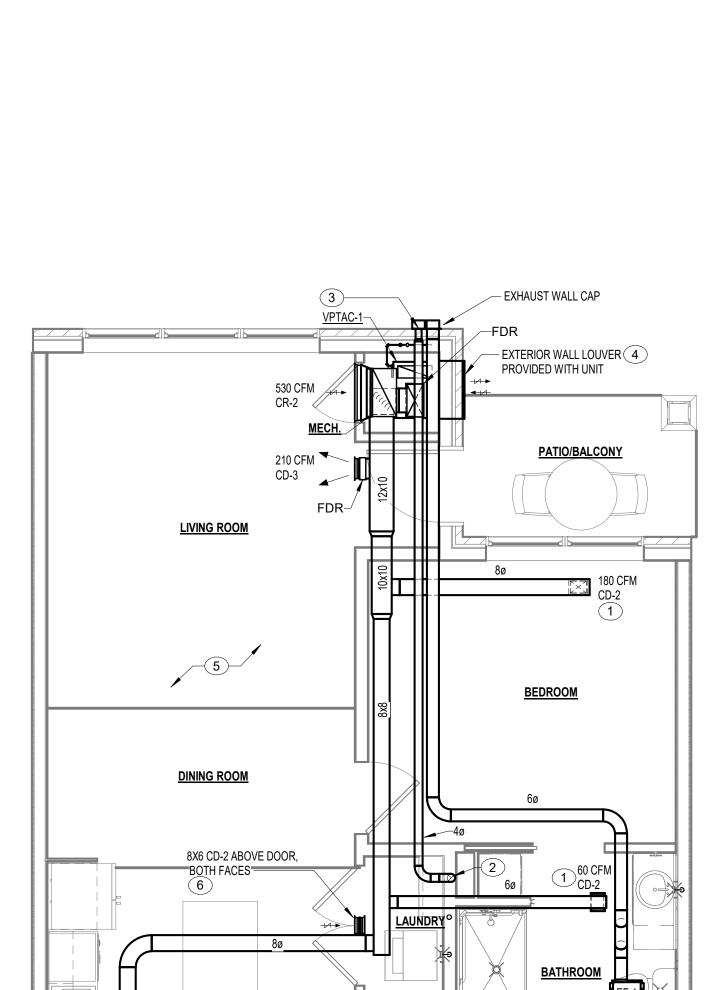
2 UNIT C - HVAC M2.1 1/4" = 1'-0"

190 CFM

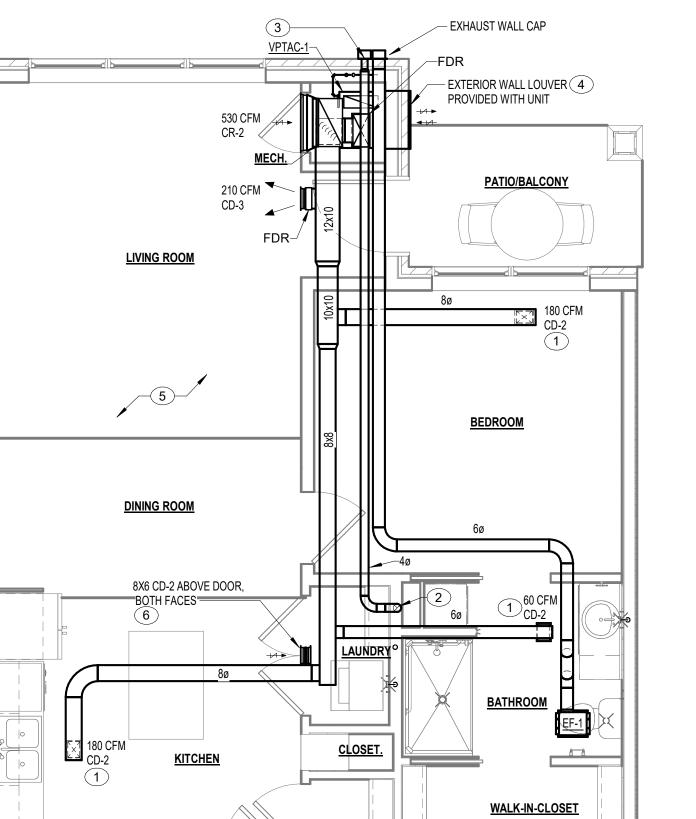
190 CFM ▼ CD-3 ■

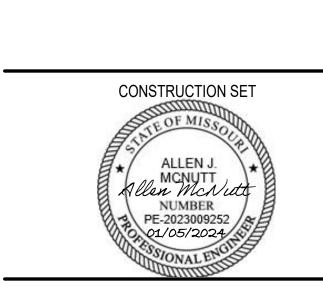
8X6 CD-2 ABOVE DOOR, BOTH FACES —





1 UNIT B - HVAC M2.1 1/4" = 1'-0"





PLAN NOTES

EXTERIOR WALL LOUVER 4
PROVIDED WITH UNIT

EXHAUST WALL CAP

PROVIDE CEILING RADIATION DAMPER. TYPICAL OF ALL AIR DEVICE

PENETRATIONS IN RESIDENT UNIT CEILINGS.

3 DRYER VENT WALL CAP WITH BACKDRAFT DAMPER

(4) VTAC OA FLOW RATE SHALL MATCH COMBINED DWELLING UNIT BATHROOM EXHAUST OR MAXIMUM UNIT OA VALUE, WHICHEVER IS

5 PROVIDE FACE OPERATED BALANCING DAMPERS FOR ALL SUPPLY

6 PROVIDE TRANSFER DUCT ABOVE LAUNDRY ROOM DOOR. UTILIZE 8X6 CD-2 ON BOTH FINISHED SURFACES. MOUNTING HEIGHT AFF

SHALL MATCH OTHER SIDEWALL DEVICES VISIBLE IN SAME SPACE.
TYPICAL OF ALL RESIDENT UNIT LAUNDRY ROOMS.

2 4"Ø RIGID DRYER VENT DOWN TO DRYER

PROJECT TITLE

John Knox Village COURTYARDS - BUILDING E

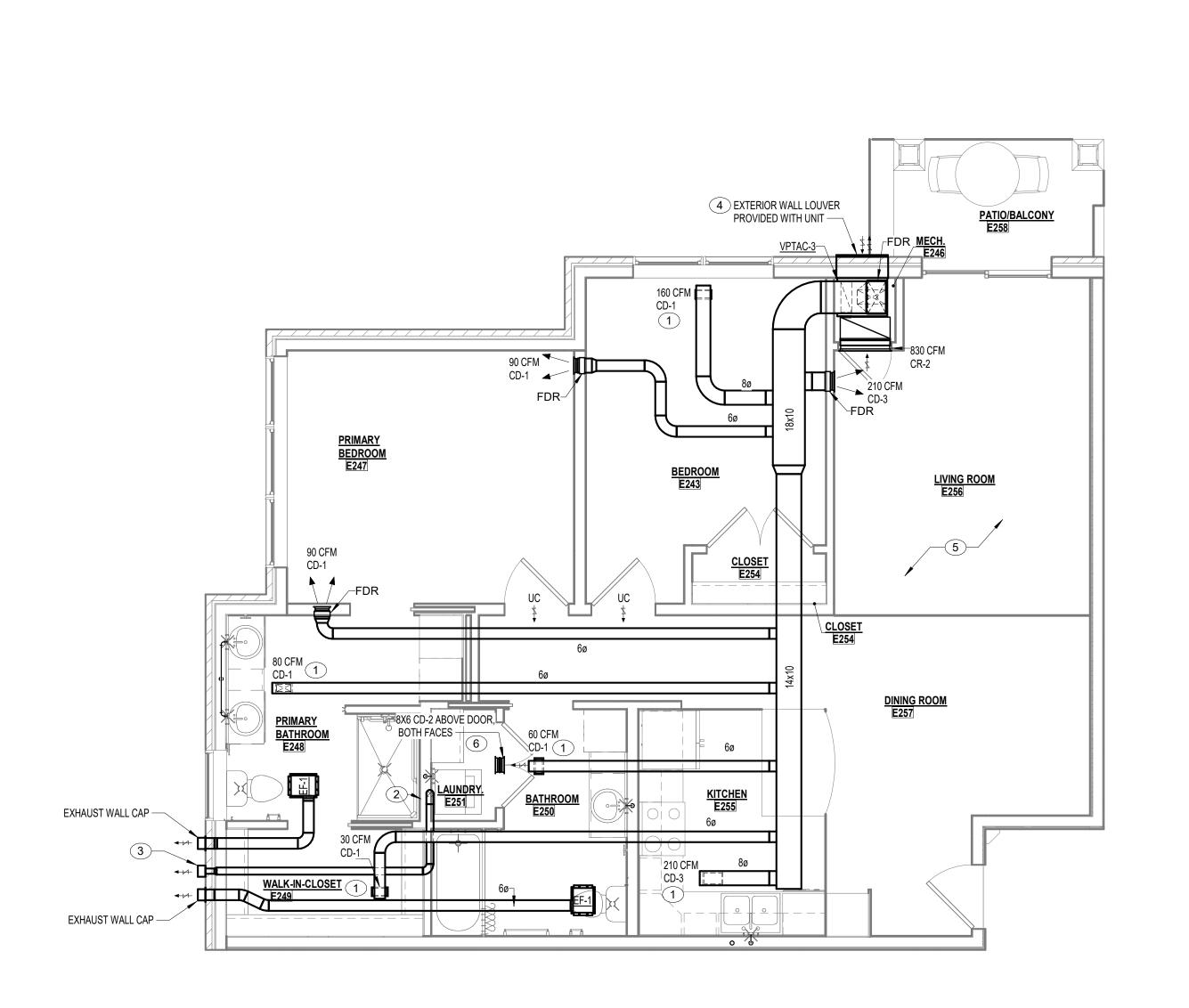
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DESIGNER : DAS ARCHITECT : DAS	DRAWN : JEB CHECKED : MAP
ENGINEER : KFY	APPROVED : AJM
NO.	REVISION DESCRIPTION

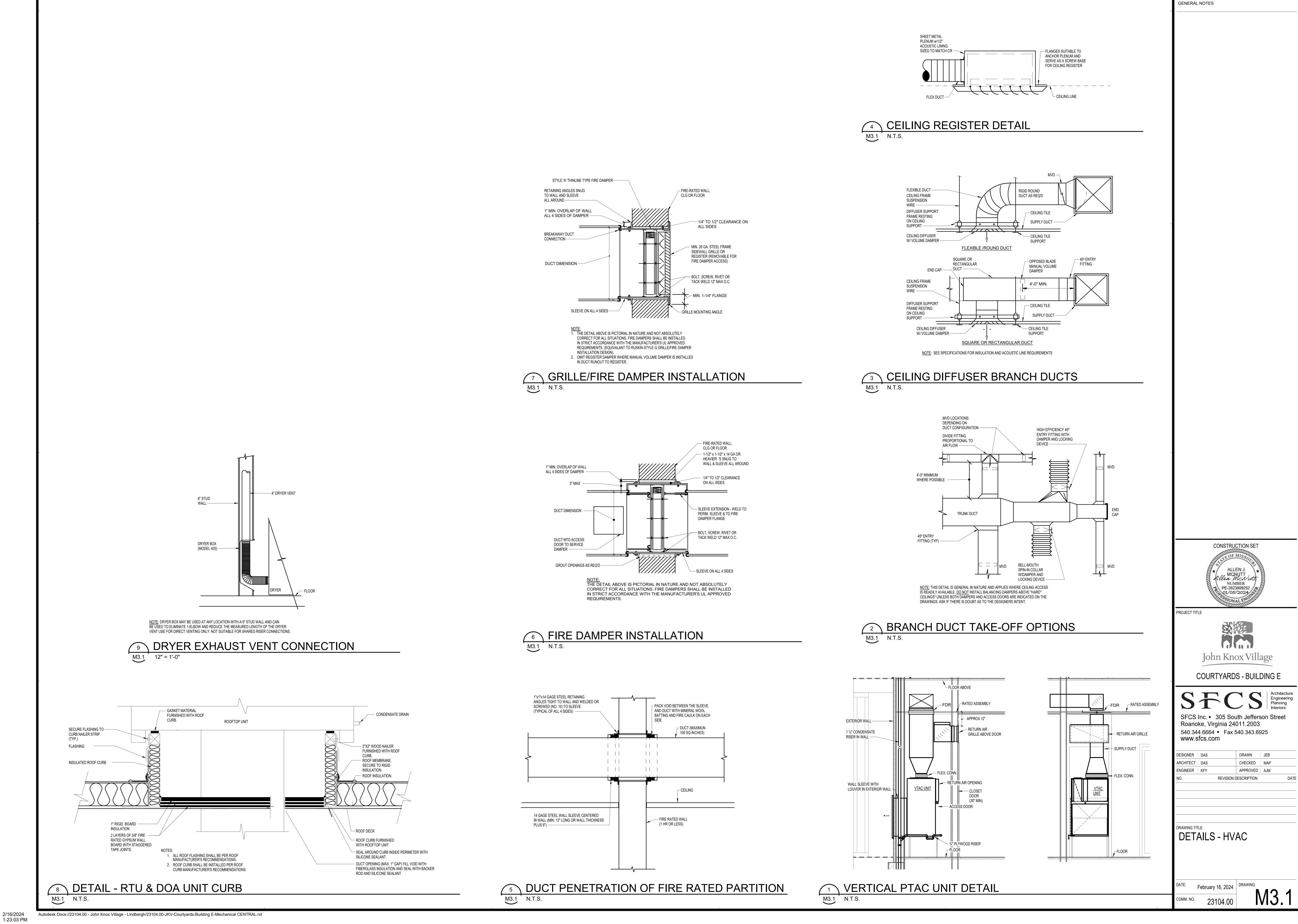
ENLARGED PLANS - HVAC

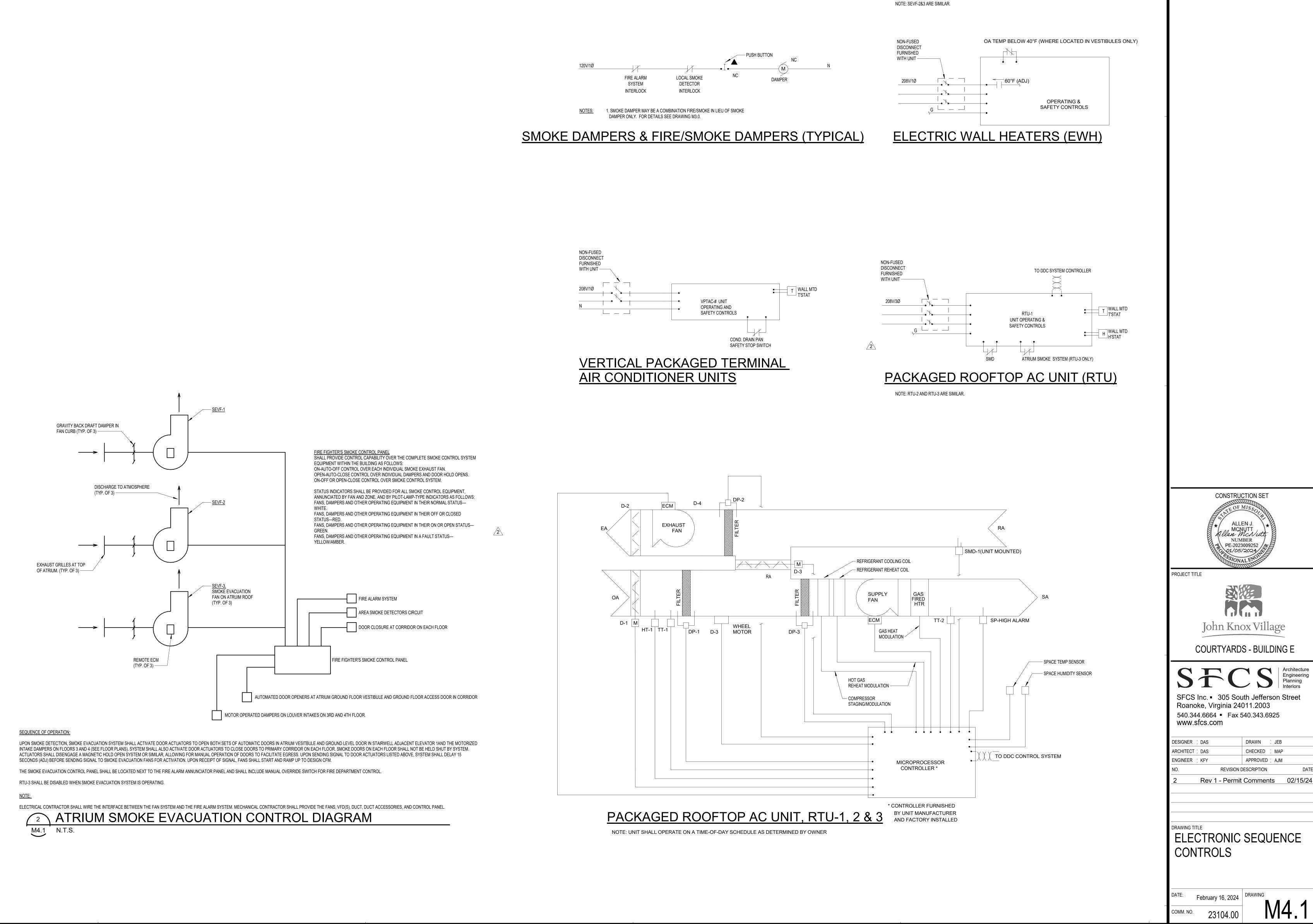
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3 UNIT D1 - HVAC M2.1 1/4" = 1'-0"





GENERAL NOTES

NON-FUSED DISCONNECT FURNISHED WITH UNIT —

> <u>SEVF-1</u> MOTOR ECM CONTROLLER

SMD, IN ATRIUM

SEVF-1, SMOKE EVACUATION FAN

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DITIMONIC FIVELIDE COLIEDINE

<u>TAG</u>	DESCRIPTION	MINIMUM CW	MINIMUM HW	MINIMUM TRAP	MINIMUM SOIL OR WASTE	MINIMUM VENT
	WATER CLOSETS:					
P-10	GERBER "VIPER" MODEL 21-518 ELONGATED BOWL, ADA COMPLIANT, FLOOR MOUNTED, WHITE, TANK TYPE, 1.6 GPF BOLT CAPS AND WHITE CLOSED FRONT SEAT WITH COVER, WITH SLOW CLOSE STAINLESS STEEL CHECK HINGES AND ANGLE SUPPLY WITH WHEEL HANDLE STOPS.	1/2"	-	-	3"	1-1/2"
P-11	GERBER "VIPER" MODEL 21-518 ELONGATED BOWL, ADA COMPLIANT, FLOOR MOUNTED, WHITE, TANK TYPE, 1.6 GPF BOLT CAPS AND WHITE OPEN FRONT SEAT WITH COVER, WITH SLOW CLOSE STAINLESS STEEL CHECK HINGES AND ANGLE SUPPLY WITH WHEEL HANDLE STOPS.	1/2"	-	-	3"	1-1/2"
	LAVATORIES: PROVIDE COMPLETE UNDER LAVATORY ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURERED BY PLUMBEREX SPECIALTY PRODUCTS, INC., OR TRUEBRO, INC. ON ALL HANDICAPPED LAVATORIES.					
<u> 2-30</u>	LAVATORY BOWL: INTEGRAL WITH COUNTERTOP. SEE ARCHITECTURAL FINISH SPECIFICATIONS. FAUCET: PEERLESS MODEL P136LF-M SINGLE LEVER HANDLE, 1.5 GPM, BRUSHED NICKEL FINISH. ACCESSORIES: POP UP DRAIN.	1/2"	1/2"	1-1/4"	1-1/2"	1-1/2"
<u>P-31</u>	LAVATORY BOWL: AMERICAN STANDARD "OVALYN" MODEL 0496.221, WHITE, UNDERMOUNT BOWL 19-1/4" X 16-1/4". FAUCET: AMERICAN STANDARD "SELECTRONIC" MODEL 6055.105, BATTERY POWERED SENSOR FAUCET, 0.5 GPM, CHROME FINISH ACCESSORIES: GRID DRAIN, WATTS MODEL LFUSG-B-M2 POINT OF USE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070, WITH INTEGRAL CHECK VALVES. SET MAXIMUM OUTLET TEMPERATURE TO 110 DEGREES.	1/2"	1/2"	1-1/4"	1-1/2"	1-1/2"
	SINKS: PROVIDE COMPLETE UNDER SINK ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURERED BY PLUMBEREX SPECIALTY PRODUCTS, INC., OR TRUEBRO, INC. ON ALL HANDICAPPED SINKS.					
P-40	BASIN: ELKAY MODEL ELUH3220, STAINLESS STEEL, DOUBLE BOWL, UNDERMOUNT SINK. 31-1/4" WIDE X 1'-8" LONG X 7-7/8" DEEP. FAUCET: PEERLESS MODEL P6935LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS STEEL FINISH ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE.	1/2"	1/2"	1-1/2"	2"	1-1/2"
P-41	(BIRCH UNIT E123, CEDAR UNIT E316) BASIN: ELKAY MODEL ELUHAD3118, STAINLESS STEEL, DOUBLE BOWL, ADA COMPLIANT, UNDERMOUNT SINK. 30-3/4" WIDE X 18-1/2" LONG X 5-1/2" DEEP. FAUCET: PEERLESS MODEL P6935LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS STEEL FINISH ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE.	1/2"	1/2"	1-1/2"	2"	1-1/2"
P-42	MOP SINK: PROFLO MODEL PFMB2424, MOLDED STONE, INTEGRAL DRAIN. 24" WIDE X 24" LONG X 10" DEEP. FAUCET: ZURN MODEL Z843M1 SERVICE SINK FAUCET WITH VACUUM BREAKER AND INTEGRAL CHECK VALVES AND INTEGRAL STOPS. ACCESSORIES: HOSE AND HOSE BRACKET, MOP HANGER, ADJUSTABLE WALL BRACE, PAIL HOOK, STAINLESS STEEL BUMPERGUARDS ON ALL CURBS AND STAINLESS STEEL WALL GUARDS ON ALL ADJACENT WALLS.	1/2"	1/2"	3"	3"	1-1/2"
P-43	BASIN: ELKAY MODEL ELUHAD3118, STAINLESS STEEL, DOUBLE BOWL, ADA COMPLIANT, UNDERMOUNT SINK. 30-3/4" WIDE X 18-1/2" LONG X 5-1/2" DEEP. FAUCET: PEERLESS MODEL P6935LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS STEEL FINISH ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE.	1/2"	1/2"	1-1/2"	2"	1-1/2"
	SHOWERS/TUB/BATHING UNITS: SHOWERS SHALL HAVE A MAXIMUM FLOW RATE OF 2.5 GALLONS PER MINUTE. UNITS SHALL BE CONFIGURED LEFT-HAND AND RIGHT-HAND UNITS AS REQUIRED BY FLOOR PLAN LAYOUT. PROVIDE INLET CHECK STOPS ON ALL SHOWER VALVES THAT ARE CONNECTED TO HAND-HELD SHOWER WANDS WITH ON/OFF CAPABILITY.					
<u>-60</u>	SURROUND: COMFORT DESIGNS MODEL XSS 6036 BF, ONE PIECE, GELCOAT/FIBERGLASS SHOWER MODULE WITH 1" THRESHOLD, GRAB BARS, SEMI-PERMANENT THRESHOLD AND T-SHAPED WATER STOPPER. SHOWER TRIM: KOHLER "BANCROFT" MODEL K-10583-4 SHOWER TRIM WITH METAL LEVER HANDLE AND SHOWER HEAD WITH KOHLER RITE-TEMP K-8304-KS PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, KOHLER "BANCROFT" MODEL K-T10595-4 TRANSFER VALVE, GROHE MODEL 26077EN0 24 INCH SHOWER BAR WITH HAND HELD SHOWER AND 69 INCH HOSE, AND GROHE MODEL 28627EN0 SHOWER OUTLET ELBOW. ALL COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE 2" BRUSHED NICKEL FINISH SHOWER DRAIN.	1/2"	1/2"	2"	2"	1-1/2"
<u> 2-61</u>	SURROUND: AQUARIUS MODEL G 6237 BF .75, ONE PIECE, ADA COMPLIANT, ROLL-IN, GELCOAT/FIBERGLASS SHOWER MODULE WITH .75" THRESHOLD, ADA GRAB BARS, FACTORY FOLD UP SEAT, SEMI-PERMANENT THRESHOLD AND T-SHAPED WATER STOPPER. SHOWER TRIM: KOHLER "BANCROFT" MODEL K-10583-4 SHOWER TRIM WITH METAL LEVER HANDLE AND SHOWER HEAD WITH KOHLER RITE-TEMP K-8304-KS PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, KOHLER "BANCROFT" MODEL K-T10595-4 TRANSFER VALVE, GROHE MODEL 26077EN0 24 INCH SHOWER BAR WITH HAND HELD SHOWER AND 69 INCH HOSE, AND GROHE MODEL 28627EN0 SHOWER OUTLET ELBOW. ALL COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE 2" BRUSHED NICKEL FINISH SHOWER DRAIN.	1/2"	1/2"	2"	2"	1-1/2"
P-62	BATHTUB: AMERICAN STANDARD "PRINCETON" MODEL 2390.202, WHITE, ACID RESISTANT PORCELAIN FINISH. TRIM: KOHLER "BANCROFT" MODEL K-T10581-4 BATH TRIM KIT WITH METAL LEVER HANDLE, SHOWER HEAD AND TUB SPOUT WITH KOHLER RITE-TEMP K-8304-KS PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, KOHLER "BANCROFT" MODEL K-T10595-4 TRANSFER VALVE, GROHE MODEL 26077EN0 24 INCH SHOWER BAR WITH HAND HELD SHOWER AND 69 INCH HOSE, AND GROHE MODEL 28627EN0 SHOWER OUTLET ELBOW. ALL COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE BRUSHED NICKEL FINISH TUB DRAIN ASSEMBLY WITH OVERFLOW.	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"
	MISCELLANEOUS:					
<u>2-70</u>	WASHING MACHINE CONNECTION BOX: UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF 16 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS. UNIT SHALL BE FITTED WITH 2-INCH DRAIN CONNECTION WITH OVERFLOW, BOTTOM SUPPLY HOSE CONNECTIONS, AS REQUIRED, WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010. BOXES LOCATED ON RATED CORRIDOR OR RATED UNIT SEPARATION WALL SHAL BE A FIRE-RATED BOX ASSEMBLY APPROVED FOR FIRE-RATED INSTALLATION.	1/2"	1/2"	2"	3"	1-1/2"
P <u>-71</u>	ICE MAKER CONNECTION BOX: UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF 16 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS. UNIT SHALL BE FITTED WITH CHROME PLATED SUPPLY VALVE. BOXES LOCATED ON RATED CORRIDOR OR RATED UNIT SEPARATION WALL SHALL BE A FIRE-RATED BOX ASSEMBLY APPROVED FOR FIRE-RATED INSTALLATION. MOUNT BOTTOM OF BOX ABOVE TRIM/BASEBOARD.	1/2"	-	-	-	-
<u>VH</u>	FREEZE PROOF, AUTOMATIC DRAINING CHROME-PLATED WALL HYDRANT EQUAL TO WOODFORD MODEL #65. MOUNTED 24" ABOVE FINISHED GRADE.	3/4"	-	-	-	-
<u>P</u>	PROVIDE BRONZE TRAP PRIMER VALVE WITH AUTOMATIC VACUUM BREAKER COMPLYING WITH ASSE 1018 WITH 1/2" CONNECTIONS MATCHING PIPING SYSTEM. PROVIDE TRAP PRIMERS BY PRECISION PLUMBING PRODUCTS, INC.; JOSAM, MFG. CO.; ZURN INDUSTRIES INC.; SMITH MFG. CO; OR WATTS DRAINAGE.	1/2"	-	-	-	-
<u>H</u>	ZURN Z1395 ROOF POST HYDRANT, NON FREEZE, WITH VACUUM BREAKER, 3/4" HOSE CONNECTION. DEPTH OF BURY TO BE BASED UPON 4 FEET SO THAT DRAIN PORT IS LOCATED BELOW ATTIC INSULATION IN CEILING SPACE OF ROOM BELOW. FIELD VERIFY DEPTH OF BURY PRIOR TO ORDERING.	3/4"	-	-	-	-
/ <u>HA</u>	EQUAL TO ZURN Z1700 WATER HAMMER ARRESTOR.	3/4"	-	-	-	-

- 1. FIXTURES SHALL BE PROVIDED WITH ALL ITEMS, ARTICLES, MATERIALS AND INCIDENTALS, AS REQUIRED, INCLUDING ALL LABOR NECESSARY FOR A COMPLETE PLUMBING INSTALLATION.
- 2. THE PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES, POLISH ALL METAL PARTS, CHECK AND ADJUST ALL FITTINGS, FAUCETS AND VALVES. ALL OPERATING INSTRUCTIONS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR PRESENTATION TO THE OWNER.
- 3. PROVIDE INDIVIDUAL STOPS ON ALL PLUMBING FIXTURES.
- 4. ALL LAVATORY, SINK, LAUNDRY TUB, WATER COOLER AND SIMILAR FIXTURE TRAPS, INCLUDING THOSE MOUNTED IN CASEWORK, SHALL BE CHROME PLATED, CAST BRASS, MINIMUM 17-GAUGE, ADJUSTABLE TYPE WITH CLEANOUT PLUG.
- 5. PROVIDE CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES AT FIXTURE SUPPLY THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.
- 6. ALL EXPOSED SUPPLY PIPES, STOPS, FLEXIBLE RISERS, INCLUDING THOSE MOUNTED IN CASEWORK, SHALL HAVE A POLISHED CHROME PLATED FINISH AND BE OF THE SAME MANUFACTURER THROUGHOUT THE JOB.
- 7. ALL EXPOSED SUPPLY PIPES, STOPS, P-TRAP, AND ANY WASTE PIPE IN ADA ACCESSIBLE LOCATIONS SHALL HAVE ADA COMPLIANT UNDER-SINK PROTECTION.
- 8. PROVIDE CHROME PLATED ESCUTCHEONS AT ALL FIXTURE SUPPLY AND WASTE PIPE PENETRATIONS THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.
- 9. ALL WATER CLOSET FLUSHING MECHANISMS ON HANDICAP WATER CLOSETS SHALL BE INSTALLED ON THE "WIDE SIDE" OF EACH WATER CLOSET TO MAINTAIN ADA ACCESSIBILITY.
- 10. PROVIDE INLET CHECK STOPS ON ALL FIXTURES (I.E. MOP SINKS, KITCHEN PRE-RINSE SPRAY UNITS, SHOWER VALVES, SPA BATHING UNITS AND SIMILAR FIXTURE(S) SUSCEPTIBLE TO BACKFLOW/CROSS CONNECTION SITUATIONS.
- 11. PROVIDE CONCEALED FIXTURE CARRIERS AND SUPPORTS OF PROPER TYPE AND DESIGN TO SUIT JOB CONDITIONS. PROVIDE CARRIERS BY J.R. SMITH MFG. CO.; ZURN INDUSTRIES, INC.; JOSAM MFG. CO.; WADE DIVISION/TYLER PIPE.
- 12. PLUMBING FIXTURE COLORS SHALL BE SELECTED BY ARCHITECT/OWNER AT A LATER DATE FROM STANDARD FACTORY COLORS, UNLESS OTHERWISE NOTED TO BE DESIGNER COLOR IN SCHEDULE.
- 13. PLUMBING FIXTURES AND TRIM SPECIFIED IN THIS SCHEDULE ARE TO ESTABLISH A STANDARD LEVEL OF QUALITY. OTHER MANUFACTURERS MAY BE CONSIDERED EQUAL. SEE LISTINGS BELOW FOR SOME MANUFACTURERS CONSIDERED EQUALS. OTHER MANUFACTURERS NOT LISTED BELOW MAY ALSO BE CONSIDERED WITH WRITTEN APPROVALS OBTAINED FROM ARCHITECT AND/OR ENGINEER PRIOR TO TEN DAYS BEFORE BIDS ARE DUE.
- A. <u>VITREOUS CHINA PLUMBING FIXTURES:</u> AMERICAN STANDARD, SLOAN, KOHLER, PROFLO, ZURN
- B. MOP SINKS, LAUNDRY TUBS: FIAT, E.L. MUSTEE, PROFLO, STERN WILLIAMS
- C. <u>STAINLESS STEEL SINKS:</u> ELKAY, DAYTON, JUST, PROFLO
- D. FAUCETS, SHOWER VALVES AND TRIM, FLUSH VALVES: AMERICAN STANDARD, KOHLER, SLOAN, ELKAY, MOEN, T&S BRASS, DELTA, CHICAGO, PROFLO
- E. SHOWER AND TUBS: COMFORT DESIGNS, BEST BATH, AQUA BATH, AQUARIUS, AMERICAN STANDARD, KOHLER, AQUATIC (LASCO)
- 14. PROVIDE SHOP DRAWING/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED ABOVE IN PLUMBING FIXTURE SCHEDULE.
- 15. MINIMUM SIZES IN SCHEDULE ABOVE REPRESENT MINIMUM PLUMBING FIXTURE CONNECTIONS ALLOWED AND DOES NOT REFLECT SPECIAL SITUATIONS SUCH AS WET VENTING, WASTE STACK VENTS, COMBINATION WASTE AND VENT SYSTEMS, ETC. REFER TO PLANS AND/OR RISER DIAGRAMS FOR PIPE SIZES AND ADDITIONAL INFORMATION.

PLUMBING DRAINS/CLEANOUT SCHEDULE

PROVIDE SHOP DRAWING/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW.

SUIT THICKNESS OF INSULATION.

STRAINER FOR 4" OUTLET.

CLEANOUTS: CLEANOUTS SHALL BE LINE SIZE UP TO 4". FOR PIPE SIZES LARGER THAN 4" PROVIDE A 4" CLEANOUT, WHERE ALLOWED BY CODE AND AUTHORITY HAVING JURISDICTION. ALL EXTERIOR AND INLINE CLEANOUTS SHALL BE TWO-WAY. EXPOSED HORIZONTAL OR VERTICAL CLEANOUT IN PIPING EXPOSED OR CONCEALED ABOVE ACCESSIBLE CEILINGS. (REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH INFORMATION. PROVIDE CLEANOUTS AS DESCRIBED BELOW.) WHERE SHEET VINYL FLOORING SIMILAR TO ALTRO, PROTECTALL AND ETC. IS INSTALLED, PROVIDE WATTS MODEL CO-200-RFC7 FLOOR CLEANOUT WITH SURFACE MEMBRANE CLAMP. 2. FOR AREAS WHERE CARPET WILL BE INSTALLED PROVIDE ROUND ADJUSTABLE CLEANOUT WITH CARPET MARKER. 3. BACK OF HOUSE AREAS (I.E. KITCHEN, UTILITY ROOMS, LAUNDRY ROOMS AND SIMILAR SPACES) WHERE TILE FLOORS ARE TO BE INSTALLED, PROVIDE SQUARE ADJUSTABLE CLEANOUT WITH STAINLESS STEEL COVER. 4. IN PUBLIC AREAS (I.E. DINING ROOMS, CORRIDORS, OFFICES, CONFERENCE ROOMS AND SIMILAR SPACES) WHERE TILE FLOORS ARE TO BE INSTALLED, PROVIDE SQUARE ADJUSTABLE CLEANOUT WITH RECESS TILE COVER. 5. IN AREAS SUBJECT TO TRAFFIC (I.E. PARKING GARAGES, PARKING SPACES AND SIMILAR SPACES) PROVIDE HEAVY DUTY/TRAFFIC RATED CLEANOUT COVER.

CLEANOUT TO GRADE WITH HEAVY DUTY ACCESS COVER CAST IN A 12" X 12" X 4" THICK CONCRETE PAD. (PAD MAY BE ELIMINATED IN POURED CONCRETE SIDEWALKS, DRIVEWAYS, PATIOS, ETC.)

PROVIDE CLEANOUT IN VERTICAL PIPE WITH STAINLESS STEEL ACCESS COVER. (WHERE PIPES ARE CONCEALED IN WALLS ROOF/OVERFLOW DRAINS: ACCEPTABLE MANUFACTURERS: ZURN, WATTS, JOSAM, JAY R. SMITH, FROET INDUSTRIES. ROOF DRAIN - EQUAL TO ZURN 100. DRAIN SHALL HAVE DURA-COATED CAST IRON BODY WITH POLY-DOME, COMBINATION

MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, SUMP RECEIVER, UNDERDECK CLAMPING DEVICE, EXTENSION COLLAR TO

OVERFLOW DISCHARGE SPOUT - EQUAL TO FROET INDUSTRIES MODEL LPS, OVERFLOW DISCHARGE SPOUT, STAINLESS

OVERFLOW DRAIN - EQUAL TO ZURN Z100-W2. DRAIN SHALL HAVE DURA-COATED CAST IRON BODY WITH POLY-DOME, INTERNAL OVERFLOW WATER DAM, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, SUMP RECEIVER, UNDERDECK CLAMPING DEVICE, EXTENSION COLLAR TO SUIT THICKNESS OF INSULATION.

STEEL FRAME WITH STAINLESS STEEL HINGED STRAINER. (GENERAL PURPOSE, BACK OF HOUSE, CONCRETE FLOORS) - FLOOR DRAIN EQUAL TO ZURN ZN415B. DURA-COATED CAST IRON BODY WITH INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. TYPE "B" ROUND NICKEL BRONZE STRAINER; 5" STRAINER FOR 2" OUTLET, 6" STRAINER FOR 3" OUTLET AND 8" STRAINER FOR 4" SEEPAGE SLOTS. TYPE "B" ROUND NICKEL BRONZE STRAINER; 5" STRAINER FOR 2" OUTLET, 6" STRAINER FOR 3" OUTLET AND 8"

(TILE FLOORS, CONCRETE FLOORS) - FLOOR SINK - EQUAL TO ZURN ZN1900. 4" BOTTOM OUTLET, CAST-IRON BODY, ANTI-SPLASH INTERIOR AND SEDIMENT BUCKET, NICKEL BRONZE 1/2 GRATE, 12" SQUARE BY 6" DEEP.

DIRECTION OF FLOW PIPE TURNING UP PIPE TURNING DOWN BRANCH CONNECTION - TOP BRANCH CONNECTION - BOTTOM BRANCH CONNECTION - SIDE SERVICE VALVE (BALL OR GATE) SERVICE VALVE (BUTTERFLY) CHECK VALVE DI-ELECTRIC UNION		AD AFF AFG AHJ BFP BP BTUH CFH CLG CO CP CW DD DN DWV	BOOSTER PUM BRITISH THER CUBIC FEET P CEILING CLEANOUT CIRCULATION COLD WATER DECK DRAIN DOWN
PIPE TURNING DOWN BRANCH CONNECTION - TOP BRANCH CONNECTION - BOTTOM BRANCH CONNECTION - SIDE SERVICE VALVE (BALL OR GATE) SERVICE VALVE (BUTTERFLY) CHECK VALVE	——————————————————————————————————————	AHJ BFP BP BTUH CFH CLG CO CP CW DD DN	AUTHORITY HAD BACKFLOW PER BOOSTER PUNDER BRITISH THER CUBIC FEET POSITION CIRCULATION COLD WATER DECK DRAIN DOWN
BRANCH CONNECTION - TOP BRANCH CONNECTION - BOTTOM BRANCH CONNECTION - SIDE SERVICE VALVE (BALL OR GATE) SERVICE VALVE (BUTTERFLY) CHECK VALVE		BP BTUH CFH CLG CO CP CW DD	CUBIC FEET POSITION COLEANOUT CIRCULATION COLD WATER DECK DRAIN DOWN
BRANCH CONNECTION - BOTTOM BRANCH CONNECTION - SIDE SERVICE VALVE (BALL OR GATE) SERVICE VALVE (BUTTERFLY) CHECK VALVE		CFH CLG CO CP CW DD	CLEANOUT CIRCULATION COLD WATER DECK DRAIN DOWN
BRANCH CONNECTION - SIDE SERVICE VALVE (BALL OR GATE) SERVICE VALVE (BUTTERFLY) CHECK VALVE		CLG CO CP CW DD	CEILING CLEANOUT CIRCULATION COLD WATER DECK DRAIN DOWN
SERVICE VALVE (BALL OR GATE) SERVICE VALVE (BUTTERFLY) CHECK VALVE		CP CW DD DN	CIRCULATION COLD WATER DECK DRAIN DOWN
SERVICE VALVE (BUTTERFLY) CHECK VALVE		DD DN	DECK DRAIN DOWN
CHECK VALVE			
			DRAINAGE, WA
DI-ELECTRIC UNION	, ,	EA ET	EACH EXPANSION TA
2e =e	——————————————————————————————————————	EX	EXISTING
PIPE CAP OR BLIND FLANGE	—== ——II	F FCO	FAHRENHEIT FLOOR CLEAN
OUTLETS/FIXTURE STOPS (GAS, AIR, VACUUM, OXYGEN)		FD FFE FL	FLOOR DRAIN FINISHED FLO FLOOR
PRESSURE REDUCING VALVE	——————————————————————————————————————	FT FU	FEET FIXTURE UNIT
FLEXIBLE PIPE CONNECTION OR JOINT		G GAL	GAS GALLON
HOSE BIBB OR FREEZEPROOF WALL HYDRANT		GCO GPD	GRADE CLEAN GALLONS PER
GAS SHUT-OFF VALVE	XI	GPH GPM	GALLONS PER GALLONS PER
GAS SOLENOID VALVE	——————————————————————————————————————	GW HB	GREASE WAST
CONNECT NEW TO EXISTING	•	HD HP	HEAD HORSEPOWER
POINT OF DISCONNECTION	$\overline{\bullet}$	HTR HW HWR	HEATER HOT WATER HOT WATER R
COLD WATER PIPING		IE	INVERT ELEVA
HOT WATER SUPPLY (NUMBER DENOTES TEMPERATURE; NO NUMBER INDICATES 120°F TEMPERATURE SYSTEM)	140	KW	KILOWATT
HOT WATER RETURN (NUMBER DENOTES TEMPERATURE; NO NUMBER INDICATES 120°F TEMPERATURE SYSTEM)		L	LAVATORY
SANITARY SEWER PIPING		MIN	MINIMUM
/ENT PIPING	=====	NC NO	NORMALLY CL NORMALLY OF
ROOF DRAIN STORM PIPING	RD	OD	OVERFLOW DR
DVERFLOW DRAIN STORM PIPING	OD	PD PRV	PARKING DRA PRESSURE RE
GREASE WASTE PIPING	GW	PSI PVC	POUNDS PER POLYVINYL CH
NATURAL GAS PIPING	G	RAC RBF	ROUTE ABOVE ROUTE BELOV
PIPE REFERENCE	G - GAS D - DWV W - WATER S- STORM RISER NUMBER	RD SEP SF SH SP SS	ROOF DRAIN STORM DRAIN SEWAGE EJEC SQUARE FEET SHOWER SUMP PUMP SANITARY SEV

BTUH CUBIC FEET PER HOUR CEILING CLEANOUT CIRCULATION PUMP COLD WATER DECK DRAIN DOWN DRAINAGE, WASTE AND VENT EACH EXPANSION TANK EXISTING FAHRENHEIT FLOOR CLEANOUT FLOOR DRAIN FINISHED FLOOR ELEVATION FLOOR FEET FIXTURE UNIT GALLON GRADE CLEANOUT **GALLONS PER DAY GALLONS PER HOUR** GALLONS PER MINUTE **GREASE WASTE** HOSE BIBB HEAD HORSEPOWER HTR HEATER HOT WATER HWR HOT WATER RETURN INVERT ELEVATION KILOWATT LAVATORY MINIMUM NORMALLY CLOSED NORMALLY OPEN OVERFLOW DRAIN PARKING DRAIN PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH POLYVINYL CHLORIDE ROUTE ABOVE CEILING ROUTE BELOW FLOOR ROOF DRAIN STORM DRAIN SEWAGE EJECTOR PUMP SQUARE FEET SHOWER SUMP PUMP SANITARY SEWER STAINLESS STEEL TRENCH DRAIN THERMOSTATIC MIXING VALVE TRAP PRIMER

AIR ADMITTANCE VALVE

ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION

BACKFLOW PREVENTER

BRITISH THERMAL UNIT/HOUR

VENT THRU ROOF

WASTE WATER COLUMN WALL CLEANOUT WALL HYDRANT

WATER

WATER HAMMER ARRESTOR

WHA

WTR THESE SYMBOLS AND ABBREVIATIONS ARE PLUMBING DEPARTMENT STANDARDS AND MAY NOT NECESSARILY BE APPLICABLE TO, OR APPEAR ON THESE DRAWINGS. HOWEVER, WHERE THESE SYMBOLS DO OCCUR ON THE DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ABBREVIATIONS.

PROVIDE SHOP DRAWING/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW. PROVIDE EQUIPMENT TAGS PER SPECIFICATIONS FOR ALL ITEMS LISTED IN THIS SCHEDULE.

OF LOIT IOATION	OF ON ALL IT LIMS LISTED IN THIS SCHLEDULE.
WTR HTR-1 WTR HTR-2	WATER HEATER - EQUAL TO A.O. SMITH MODEL NO. BTH-250 NATURAL GAS FIRED ASME WATER HEATER WITH GLASS TANK LINING AND CONDENSATE NEUTRILIZING KIT. HEATER TO HAVE 100 GALLON NOMINAL STORAGE CAPACITY WITH RECOVERY CAPACITY OF 327 GPH AT 88°F TEMPERATURE RISE. 250 CFH INPUT RATING; 120V ELECTRICAL CONNECTION.
<u>ET-1</u>	THERMAL EXPANSION COMPENSATOR - EQUAL TO AMTROL ST-25V-C, ASME RATED, 10.3 GALLON CAPACITY.
<u>TMV-1</u>	THERMOSTATIC MIXING VALVE - EQUAL TO LEONARD VALVE "NUCLEUS" MODEL NV-200-LF, 115 GPM AT 10 PSIG PRESSURE LOSS, 200 PSIG MAXIMUM OPERATING PRESSURE, TEMPERATURE OUTLET RANGE OF 65°F - 180°F, WITH ABILITY TO CONTROL TEMPERATURE +/-2°F OF SETPOINT, PROVIDE WALL MOUNTING BRACKET. 120V ELECTRICAL CONNECTION.
SP-1	ELEVATOR SUMP PUMP - EQUAL TO STANCOR SE-50 ELEVATOR SUMP PUMP, 1/2 HP, 120V, 1 PHASE. PROVIDE WITH

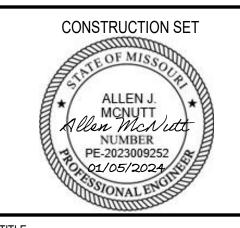
WATER LEVEL PROBE AND CONTROL PANEL.

BACKFLOW PREVENTER - EQUAL TO ZURN MODEL NO. 975XL3 WITH 2" CONNECTIONS. PROVIDE WITH AIR GAP ASSEMBLY, BALL VALVES, AND WYE STRAINER ON INLET SIDE OF VALVE. HOT WATER RECIRCULATION PUMP - EQUAL TO BELL AND GOSSETT ECOCIRC MODEL 55-45, VARIABLE SPEED WITH CAPACITY OF 25 GPM @ 25 FT/HEAD, 1/2 HP, 208V, 1 PHASE, STAINLESS STEEL CONSTRUCTION.

GENERAL PLUMBING NOTES

1. THE PLUMBING CONTRACTOR SHALL DETERMINE NECESSARY INVERT ELEVATIONS FOR PROPER DRAINAGE AND CONNECTION INTO SEWERS. ALL INVERT ELEVATIONS SHALL BE SET PRIOR TO INSTALLATION.

- 2. ALL PIPING PASSING THROUGH FIRE RATED OR FIRE AND SMOKE RATED ASSEMBLIES SHALL BE SLEEVED AND FIRESTOPPED. FIRESTOPPING
- SHALL COMPLY WITH U.L. LISTING AND REQUIREMENTS FOR ASSEMBLY TYPE BEING PENETRATED. 3. PLUMBING CONTRACTOR SHALL NOT CORE DRILL OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE
- ARCHITECT AND/OR STRUCTURAL ENGINEER. 4. PLUMBING CONTRACTOR SHALL COORDINATE PIPING LOCATIONS AND ROUTING WITH OTHER PIPING DUCTWORK AND ELECTRICAL CONDUIT INSTALLATIONS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE FURR-DOWNS AND SOFFITS
- OCCUR AND DIMENSIONS OF SAME SO THAT DISTANCES AND PIPING ROUTING CAN BE PROPERLY COORDINATED. ALL PIPING SHALL BE ROUTED
- 5. PLUMBING CONTRACTOR SHALL AVOID LOCATING HW/CW PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHERE THIS CONDITION MAY OCCUR PRIOR TO ROUGH-IN.
- 6. ALL ADA ACCESSIBLE LAVATORIES AND SINKS WITH EXPOSED WATER AND DRAIN PIPES SHALL BE INSULATED TO PROTECT AGAINST CONTACT PER ADA REQUIREMENTS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES.
- 7. ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.
- 8. COORDINATE ROUTING OF ALL PIPING WITH THE ELECTRICAL CONTRACTOR SO AS NOT TO ROUTE ANY PLUMBING LINES OVER ELECTRICAL
- 9. REFER TO SPECIFICATION SECTION 231123 FACILTY NATURAL-GAS PIPING FOR GAS PIPING AND INSTALLATION INFORMATION.
- 10. ACCESS DOORS TO VALVES, CLEANOUTS AND ETC. TO BE EQUAL TO "ACUDOR" DW OR FW SERIES, ACCESS DOORS FOR DRYWALL INSERTS. PROVIDE FIRE RATED ACCESS DOORS WHERE REQUIRED. COORDINATE WITH GENERAL CONTRACTOR AND VERIFY EXACT LOCATIONS AND SIZES ON SITE. PAINT TO MATCH CEILING OR WALL.
- 11. PLASTIC PIPING SHALL NOT BE INSTALLED IN ANY SPACE THAT IS A RETURN AIR PLENUM. COORDINATE WITH MECHANICAL CONTRACTOR FOR PLENUM LOCATIONS PRIOR TO INSTALLATION OF ANY PIPING. ONLY PLASTIC PIPING THAT IS APPROVED FOR PLENUM SPACES AND IS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION MAY BE INSTALLED IN RETURN AIR PLENUMS.
- 12. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE PLUMBING CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL PLUMBING PIPING.



PROJECT TITLE



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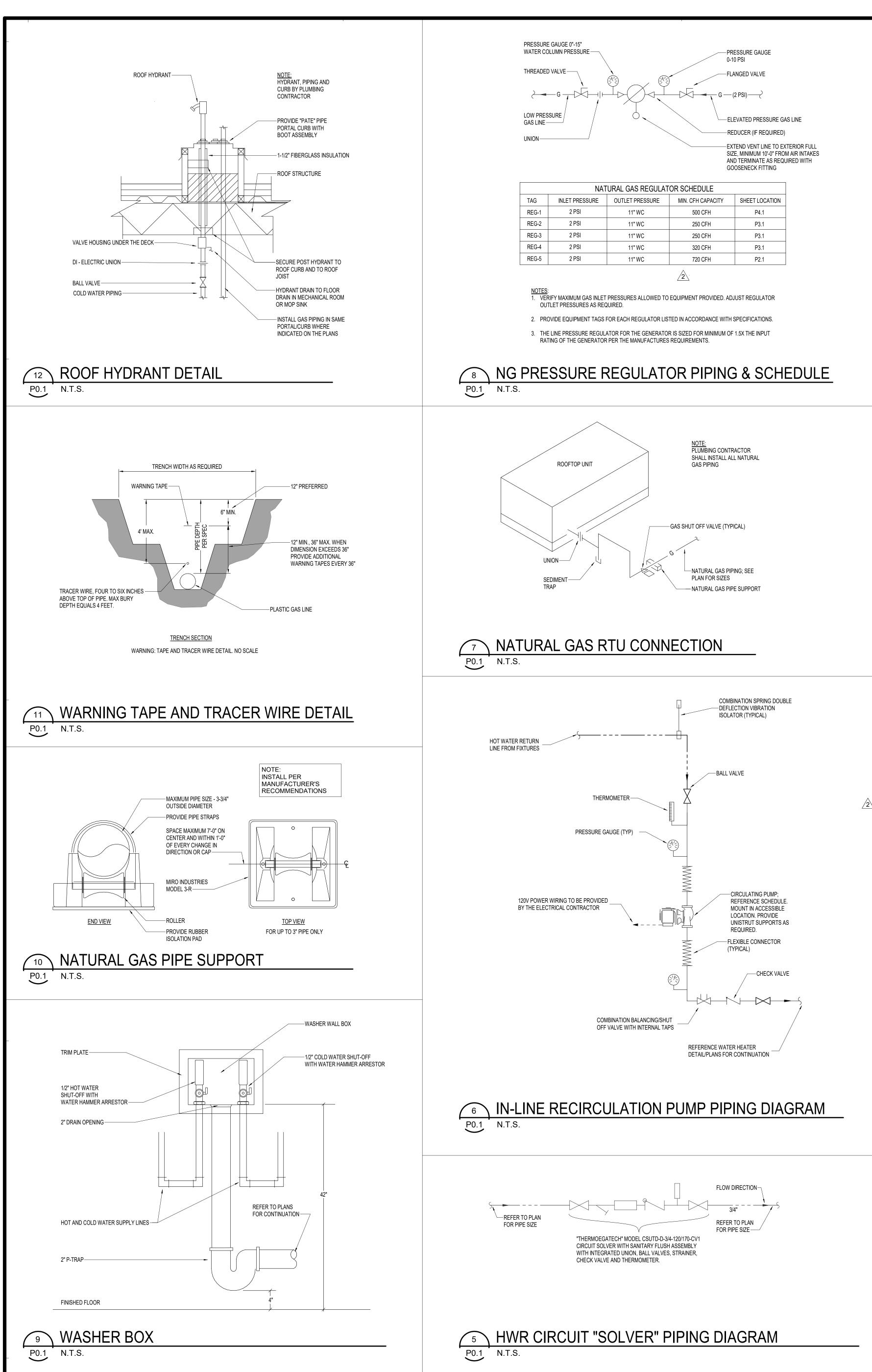
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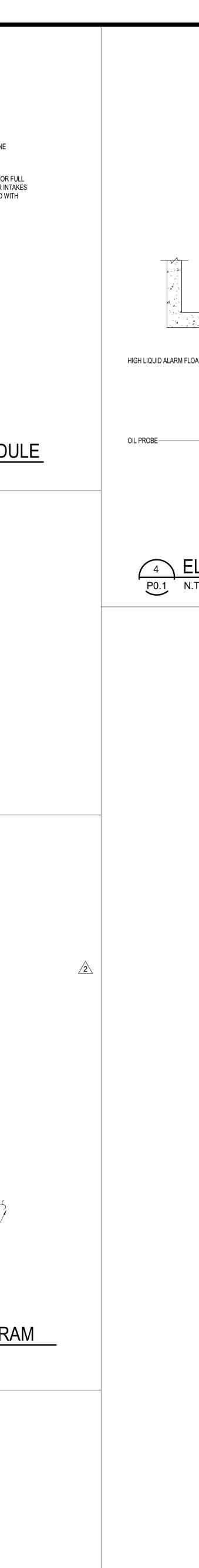
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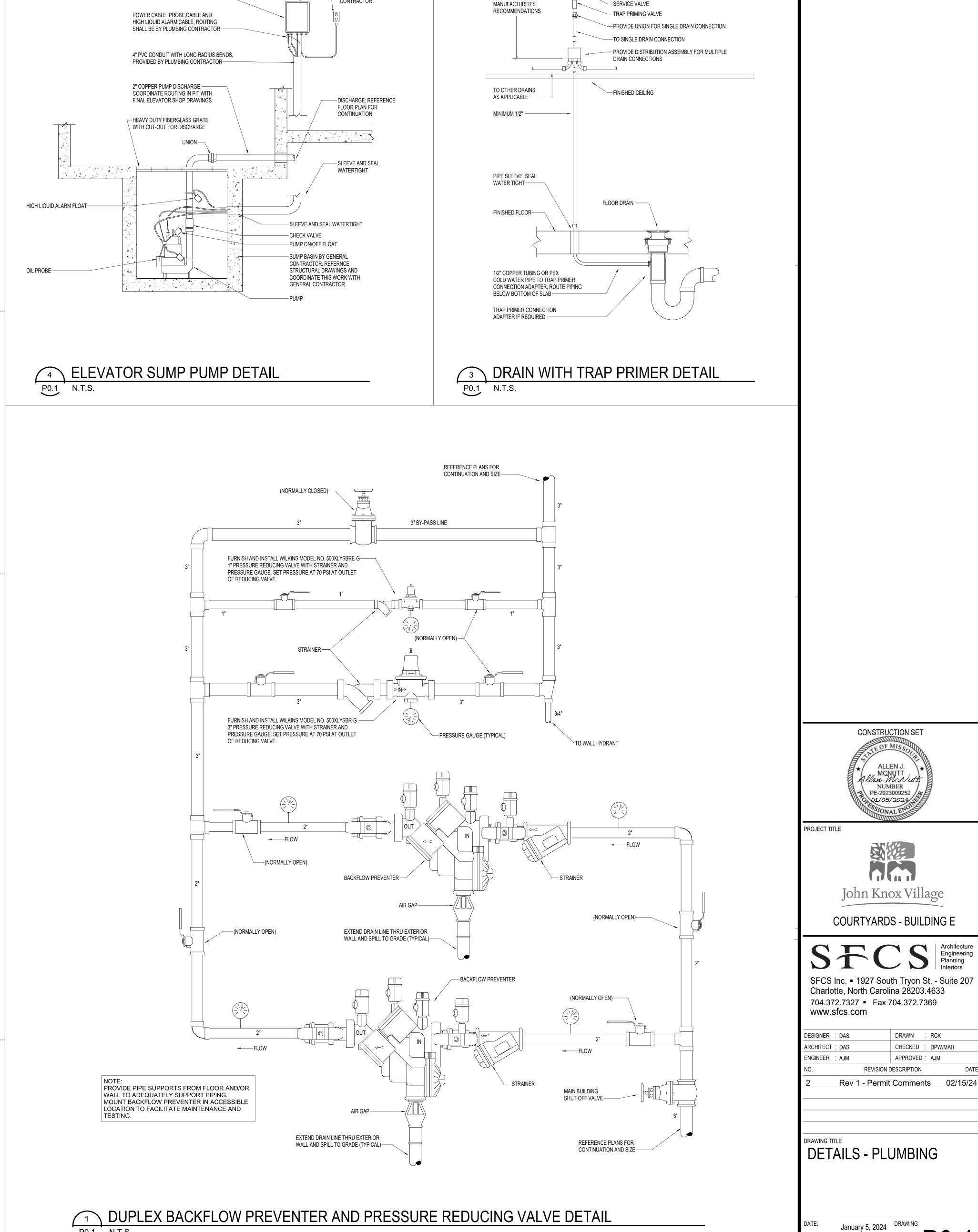
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Addendum 1

SCHEDULES







-REFERENCE FLOOR

PLAN FOR CONTROL

PANEL LOCATION

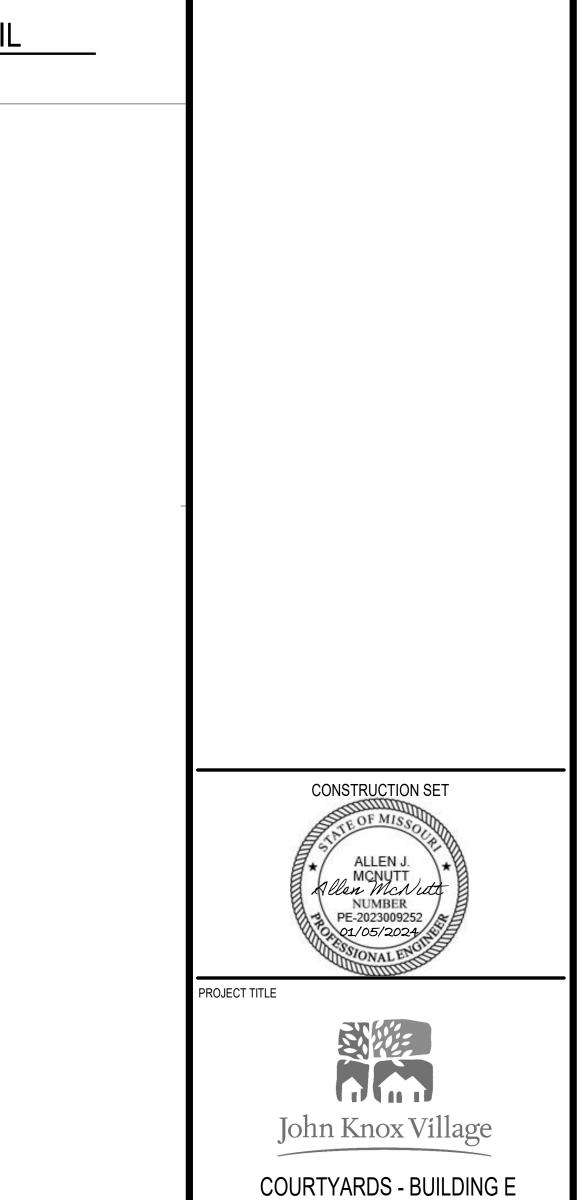
-ELECTRICAL OUTLET

BY ELECTRICAL

CONTRACTOR

CONTROL UNIT

WITH AUDIBLE ALARM—



DRAWN : RCK

APPROVED : AJM

REVISION DESCRIPTION

Rev 1 - Permit Comments 02/15/24

CHECKED : DPW/MAH

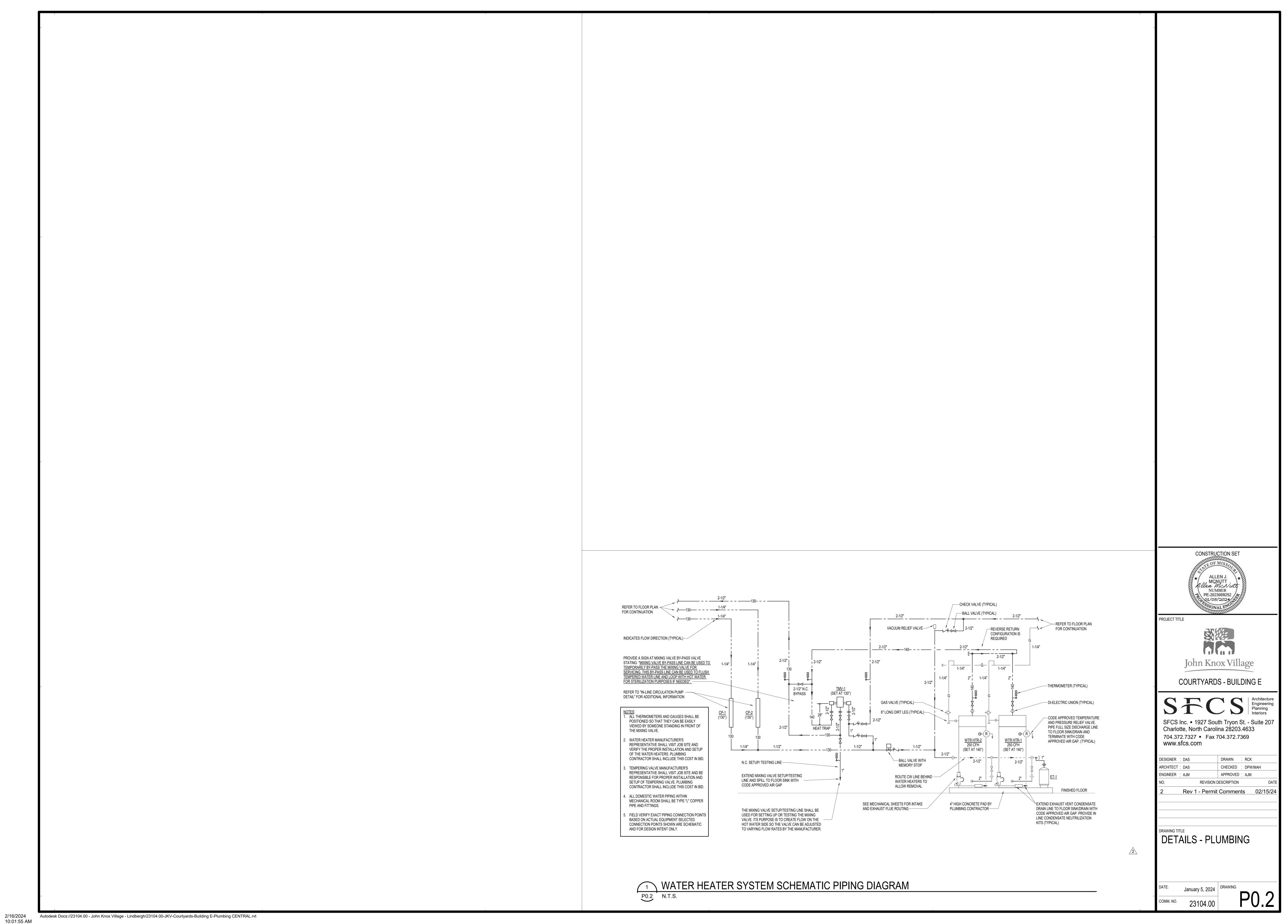
-CONNECT TO TOP OF 1-1/2" DIAMETER OR LESS COLD WATER LINE TO PREVENT FOREIGN

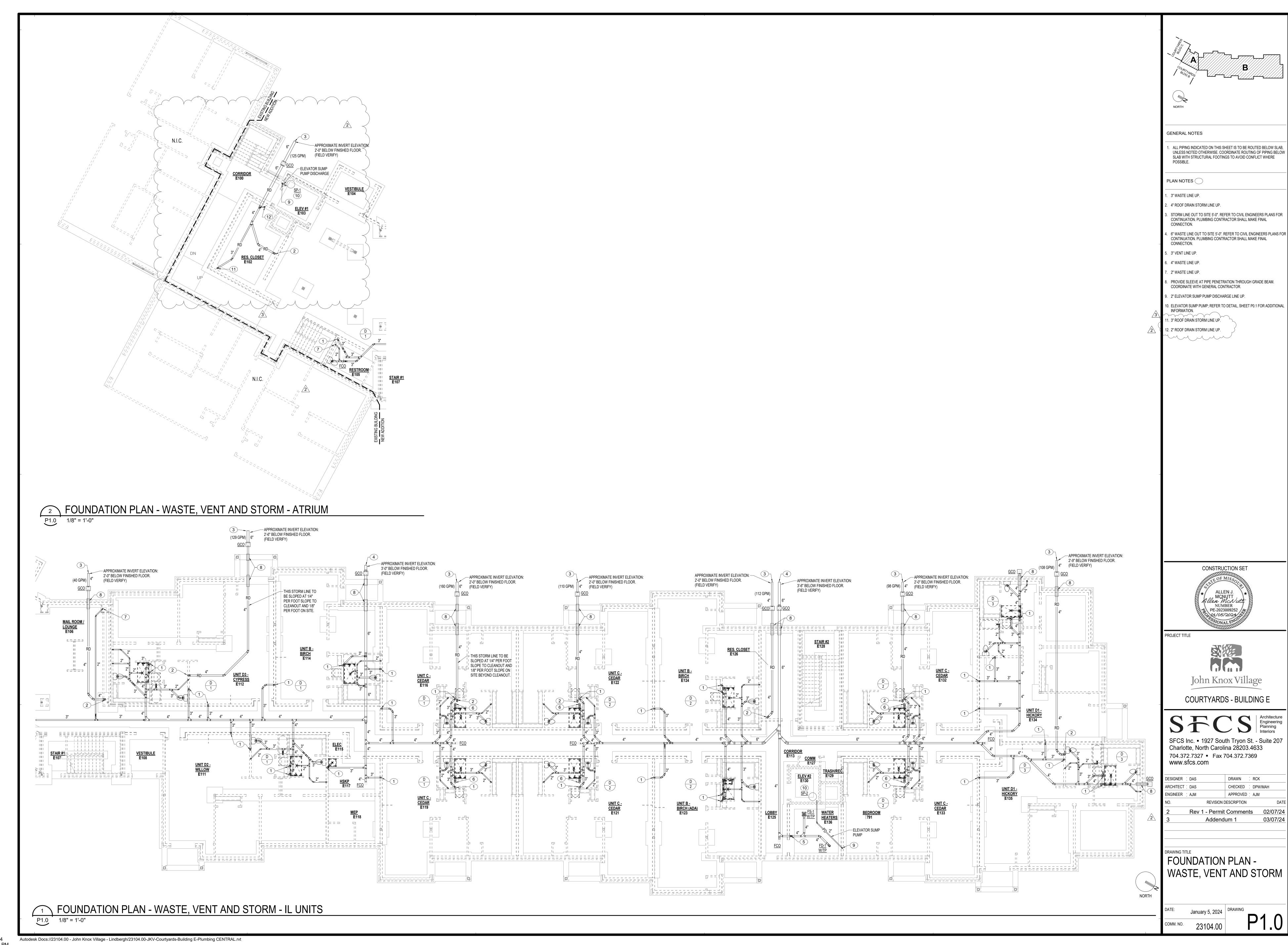
MATTER FROM ENTERING DIRECTLY INTO

-COLD WATER SUPPLY MAIN

12" OR PER

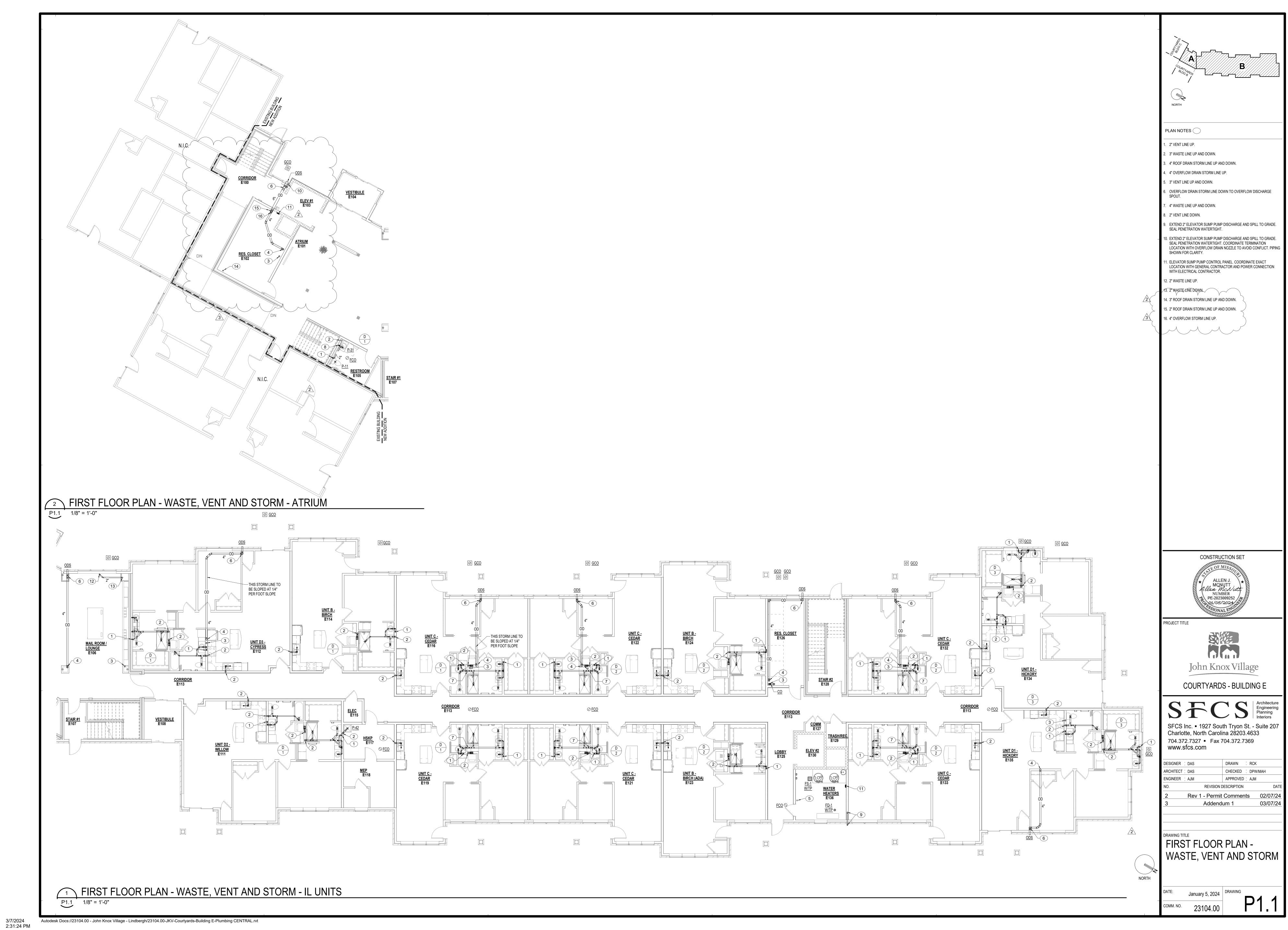
Autodesk Docs://23104.00 - John Knox Village - Lindbergh/23104.00-JKV-Courtyards-Building E-Plumbing CENTRAL.rvt

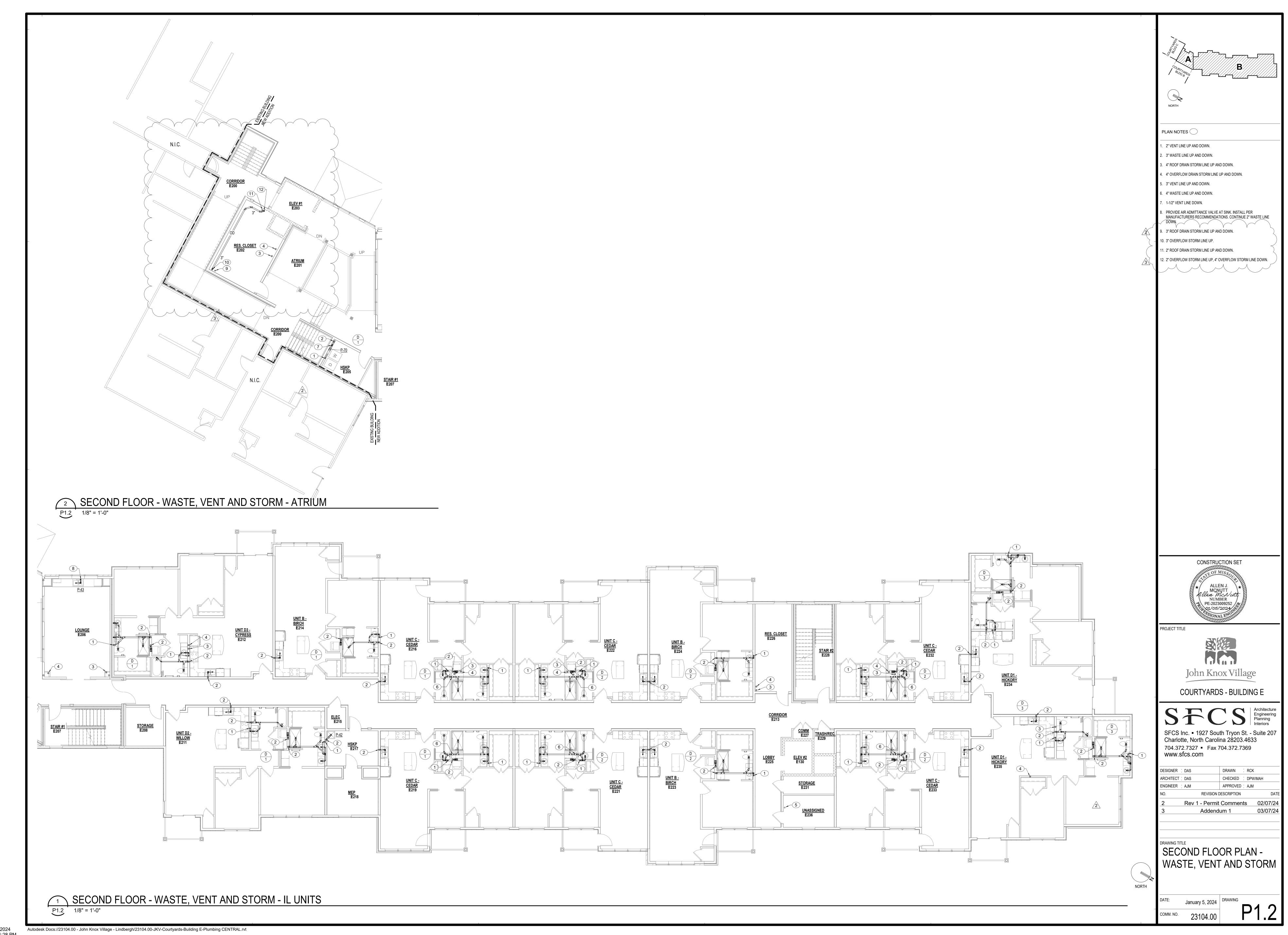




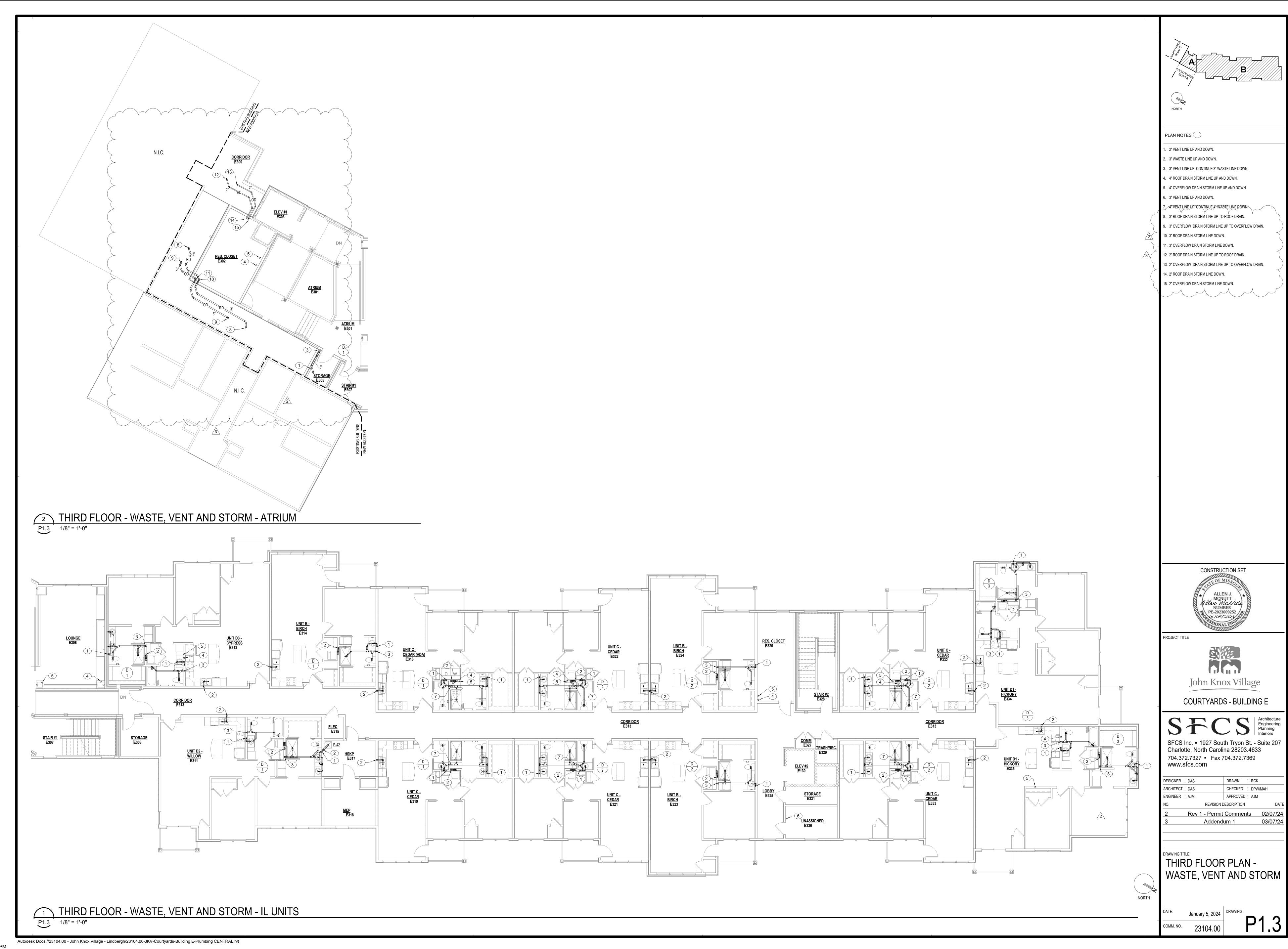
APPROVED : AJM

NUMBER

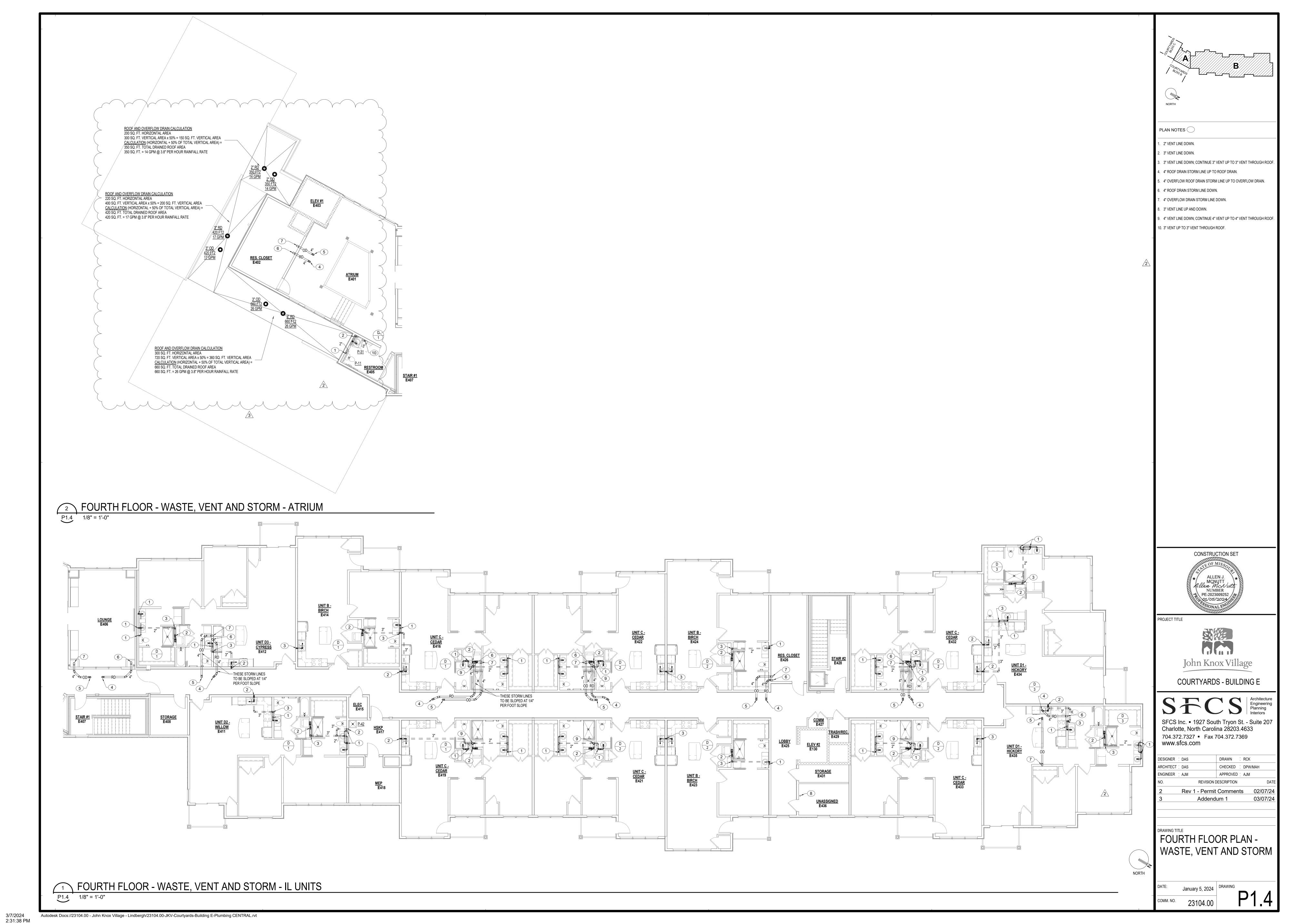


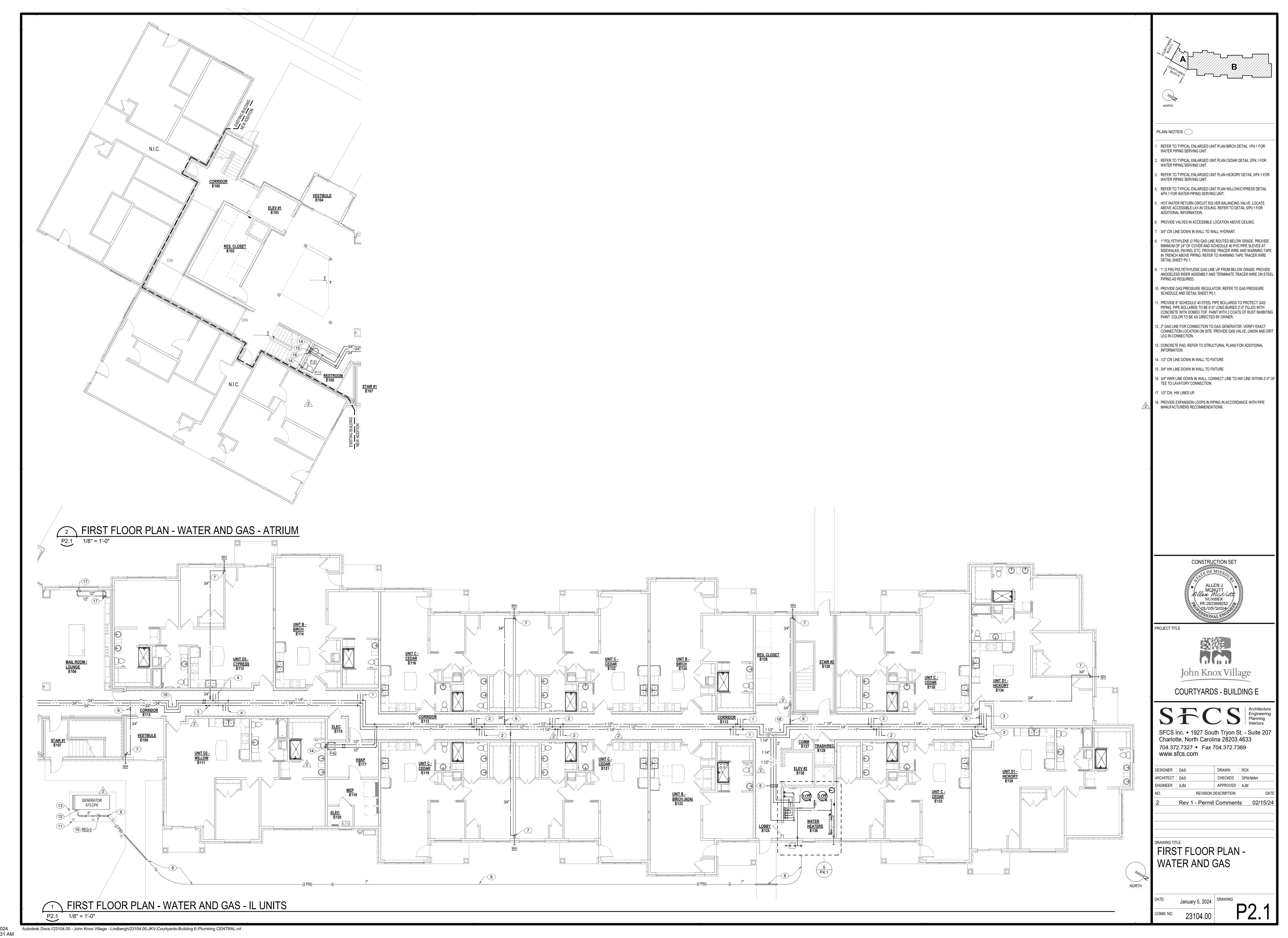


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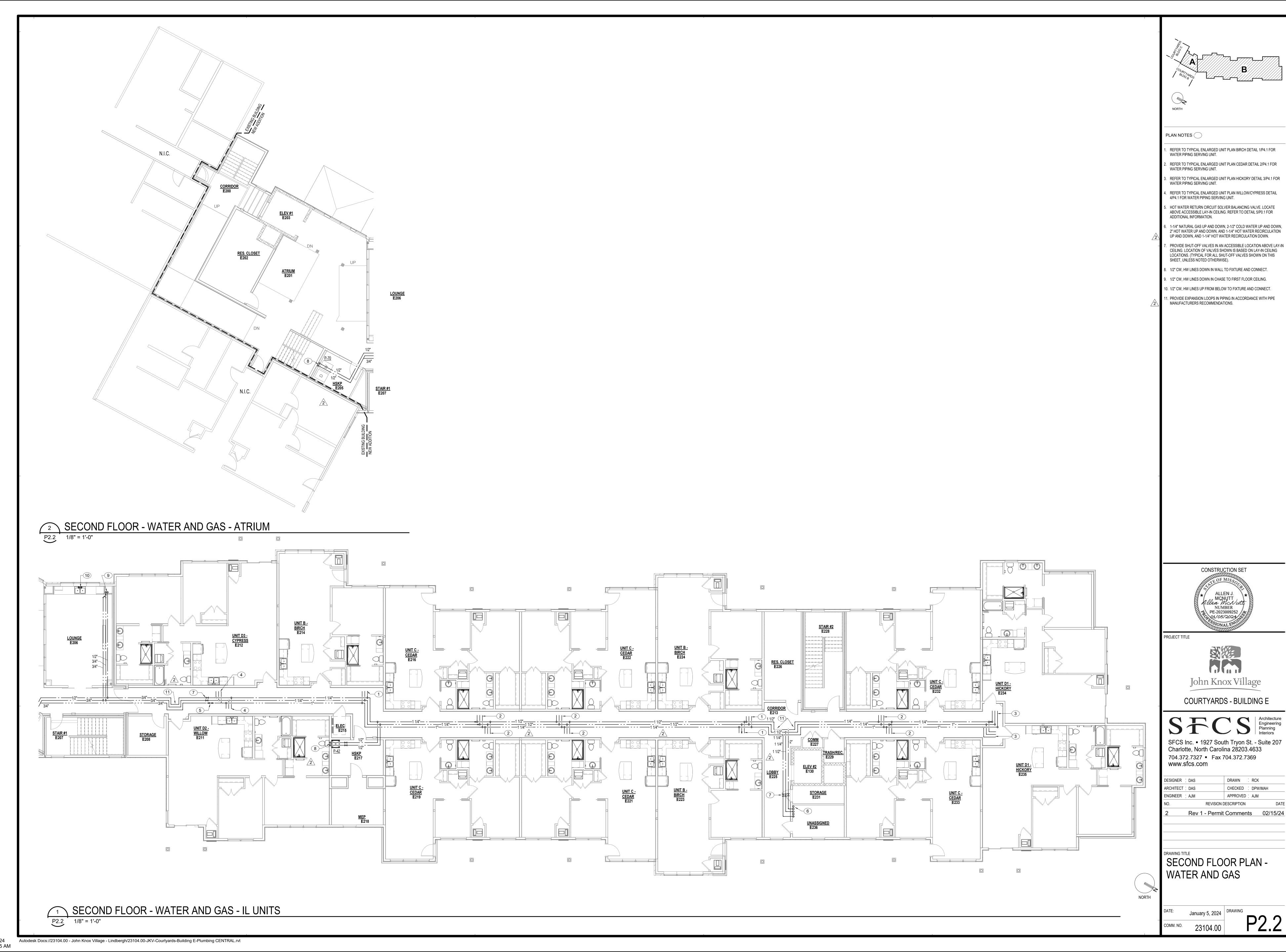


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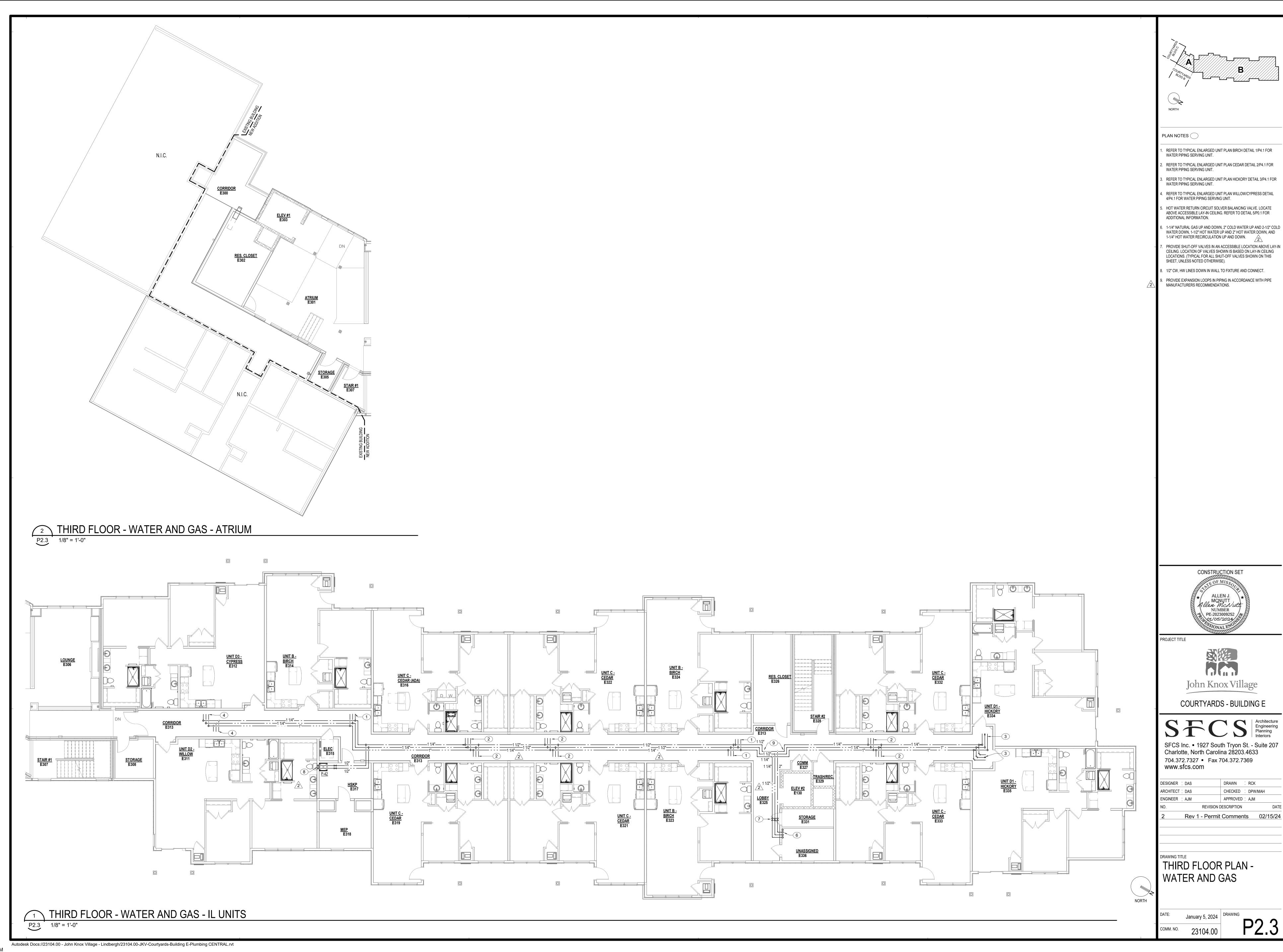




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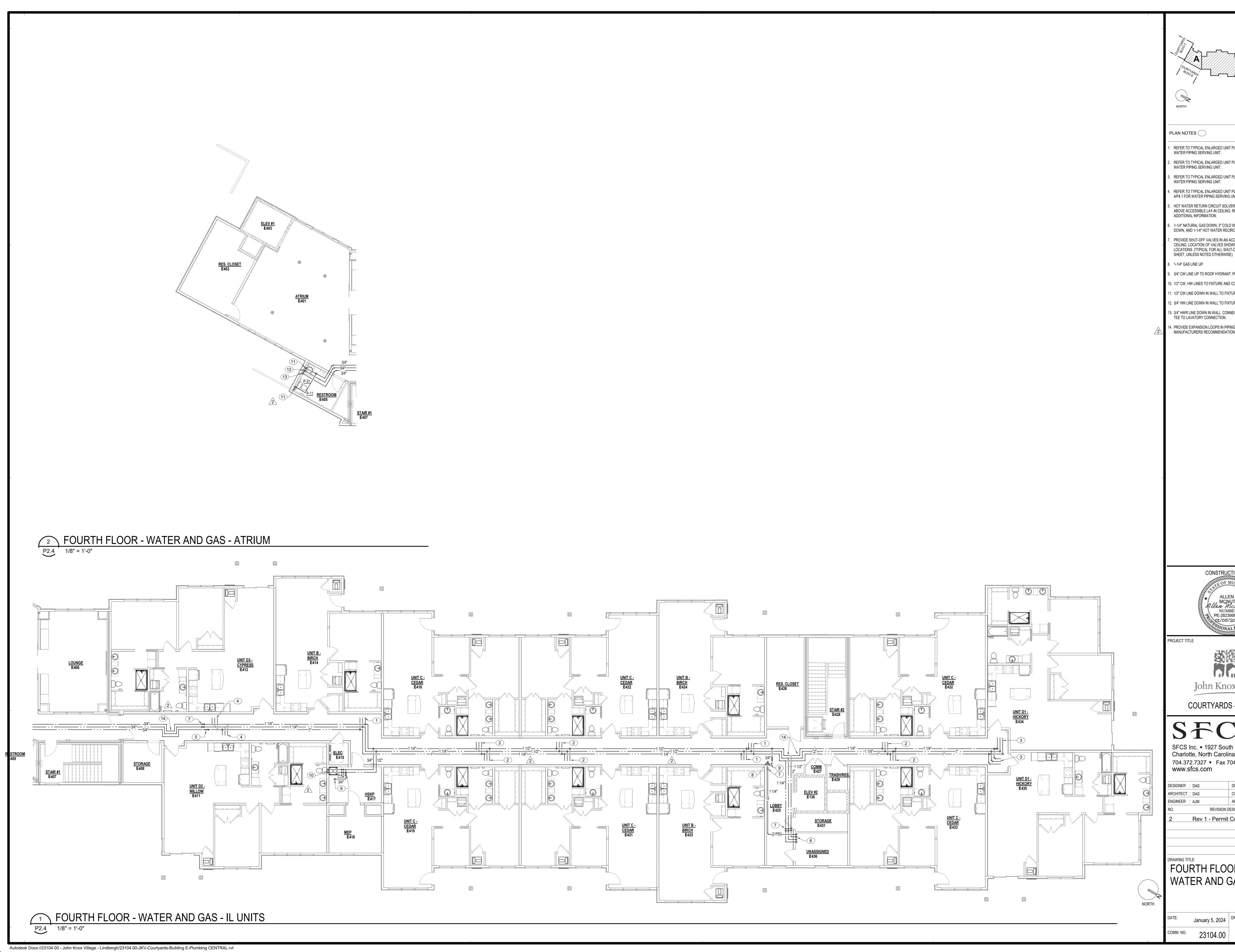


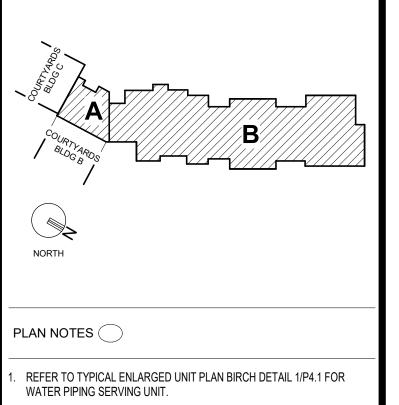
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REVISION DESCRIPTION

Rev 1 - Permit Comments 02/15/24

John Knox Village





2. REFER TO TYPICAL ENLARGED UNIT PLAN CEDAR DETAIL 2/P4.1 FOR WATER PIPING SERVING UNIT.

B. REFER TO TYPICAL ENLARGED UNIT PLAN HICKORY DETAIL 3/P4.1 FOR WATER PIPING SERVING UNIT.

REFER TO TYPICAL ENLARGED UNIT PLAN WILLOW/CYPRESS DETAIL 4/P4.1 FOR WATER PIPING SERVING UNIT.

5. HOT WATER RETURN CIRCUIT SOLVER BALANCING VALVE. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING. REFER TO DETAIL 5/P0.1 FOR

ADDITIONAL INFORMATION. 6. 1-1/4" NATURAL GAS DOWN, 2" COLD WATER DOWN, 1-1/2" HOT WATER

DOWN, AND 1-1/4" HOT WATER RECIRCULATION DOWN. 7. PROVIDE SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. LOCATION OF VALVES SHOWN IS BASED ON LAY-IN CEILING LOCATIONS. (TYPICAL FOR ALL SHUT-OFF VALVES SHOWN ON THIS

8. 1-1/4" GAS LINE UP.

9. 3/4" CW LINE UP TO ROOF HYDRANT. PROVIDE SHUT-OFF VALVE IN LINE. 10. 1/2" CW, HW LINES TO FIXTURE AND CONNECT.

11. 1/2" CW LINE DOWN IN WALL TO FIXTURE.

12. 3/4" HW LINE DOWN IN WALL TO FIXTURE.

13. 3/4" HWR LINE DOWN IN WALL. CONNECT LINE TO HW LINE WITHIN 2'-0" OF

TEE TO LAVATORY CONNECTION. 14. PROVIDE EXPANSION LOOPS IN PIPING IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS.

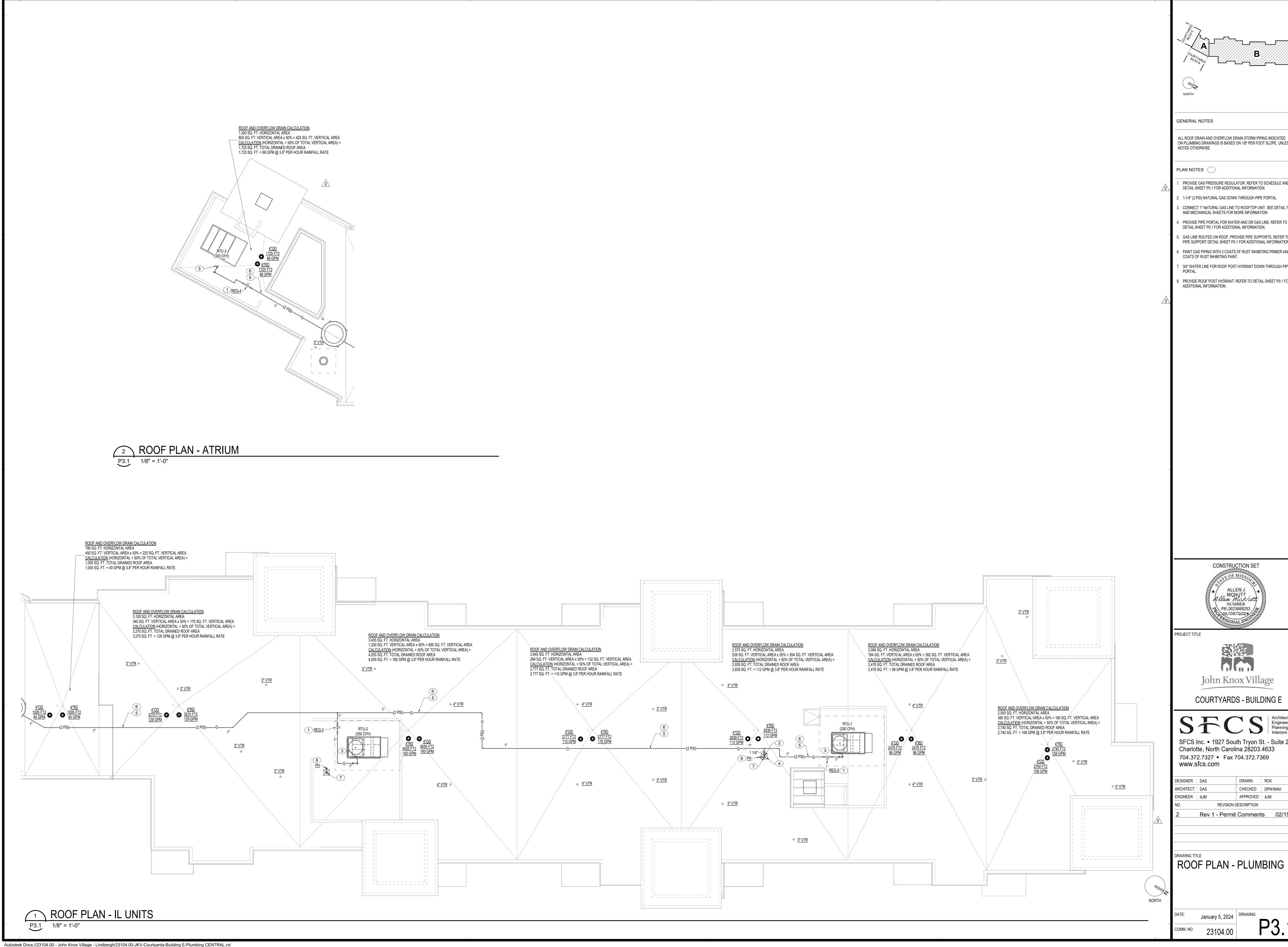
John Knox Village

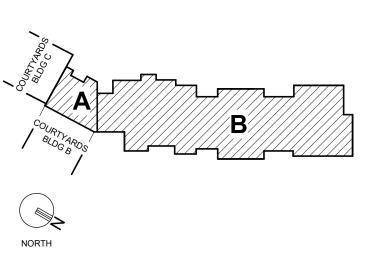
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FOURTH FLOOR PLAN -WATER AND GAS





GENERAL NOTES

ALL ROOF DRAIN AND OVERFLOW DRAIN STORM PIPING INDICATED ON PLUMBING DRAWINGS IS BASED ON 1/8" PER FOOT SLOPE, UNLESS NOTED OTHERWISE.

PLAN NOTES

PROVIDE GAS PRESSURE REGULATOR. REFER TO SCHEDULE AND

DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION

2. 1-1/4" (2 PSI) NATURAL GAS DOWN THROUGH PIPE PORTAL. B. CONNECT 1" NATURAL GAS LINE TO ROOFTOP UNIT. SEE DETAIL 7/P0.1

AND MECHANICAL SHEETS FOR MORE INFORMATION. PROVIDE PIPE PORTAL FOR WATER AND OR GAS LINE. REFER TO DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION.

5. GAS LINE ROUTED ON ROOF. PROVIDE PIPE SUPPORTS. REFER TO PIPE SUPPORT DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION. 6. PAINT GAS PIPING WITH 2 COATS OF RUST INHIBITING PRIMER AND 2

COATS OF RUST INHIBITING PAINT.

7. 3/4" WATER LINE FOR ROOF POST HYDRANT DOWN THROUGH PIPE 3. PROVIDE ROOF POST HYDRANT. REFER TO DETAIL SHEET P0.1 FOR

MCNUTT Allen WcNutt NUMBER PE-2023009252

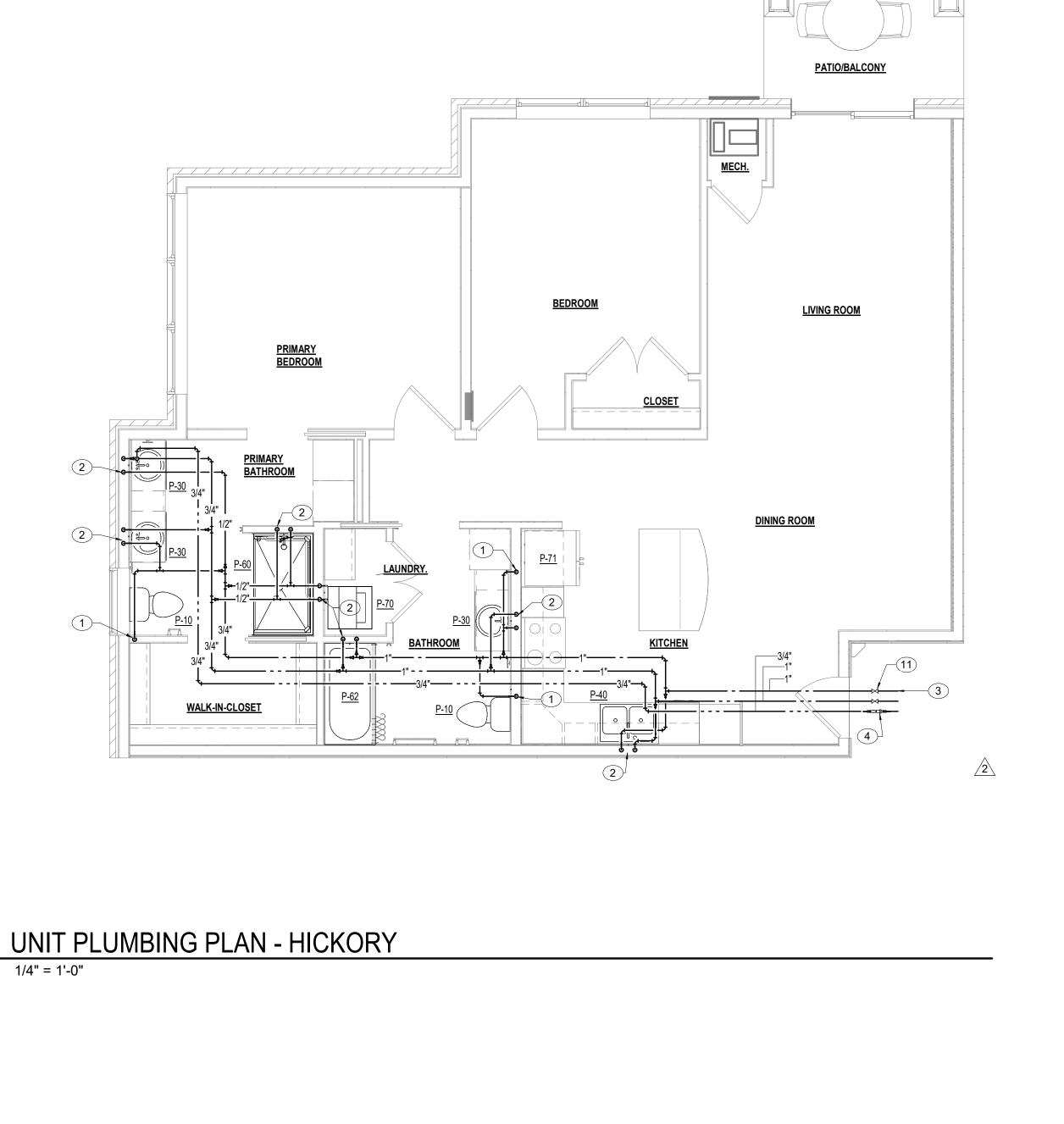
John Knox Village

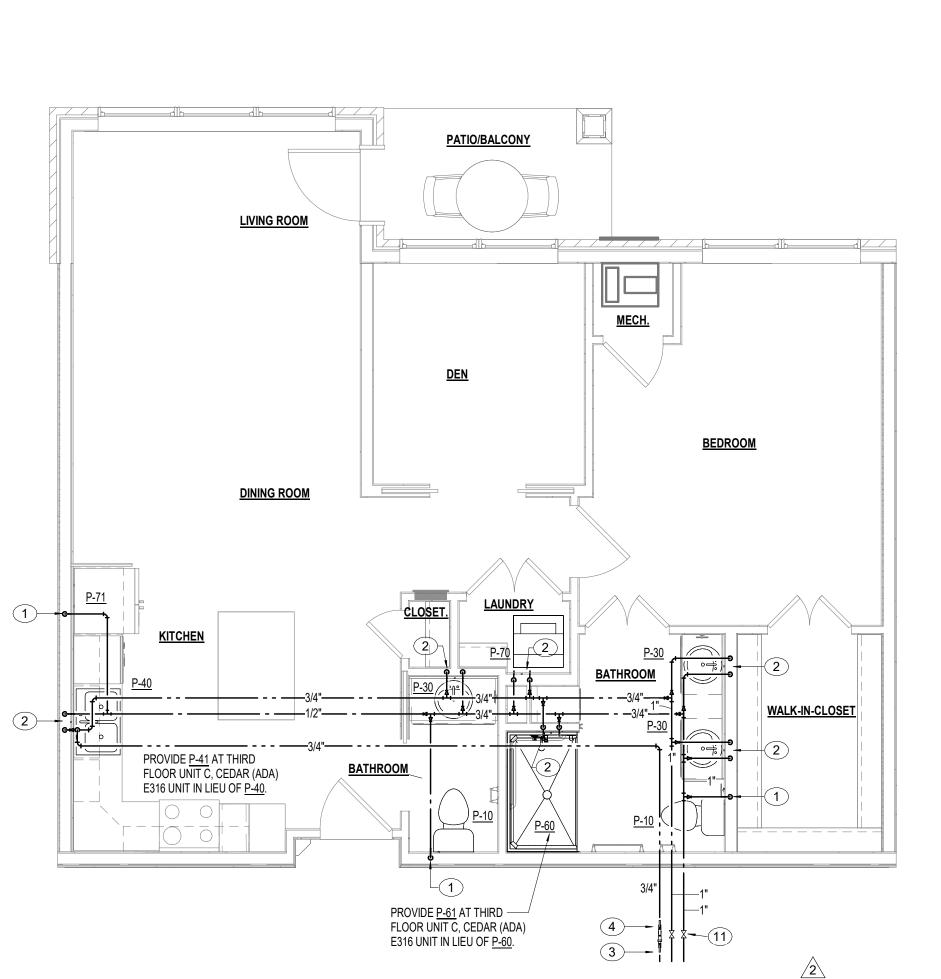
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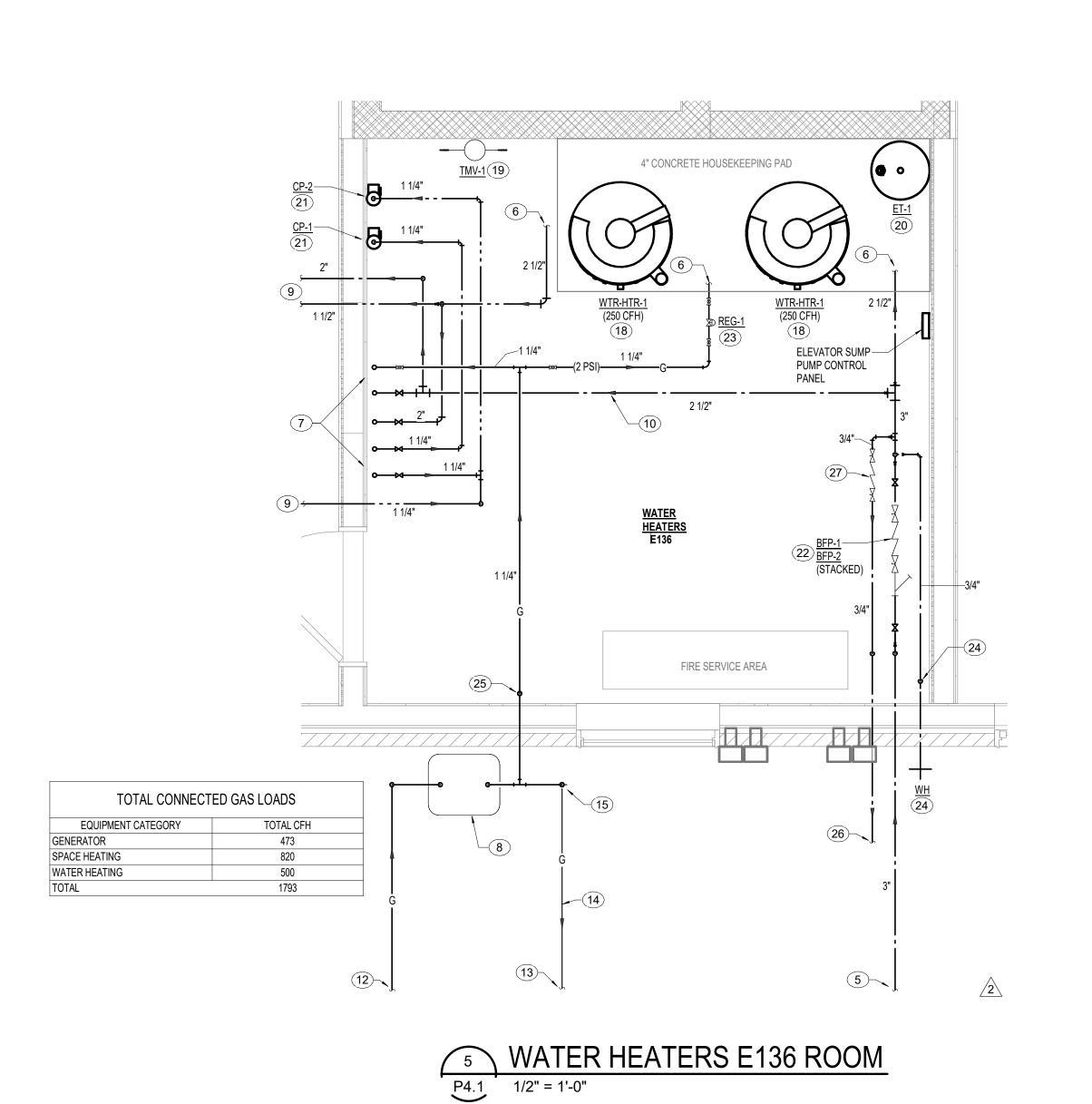
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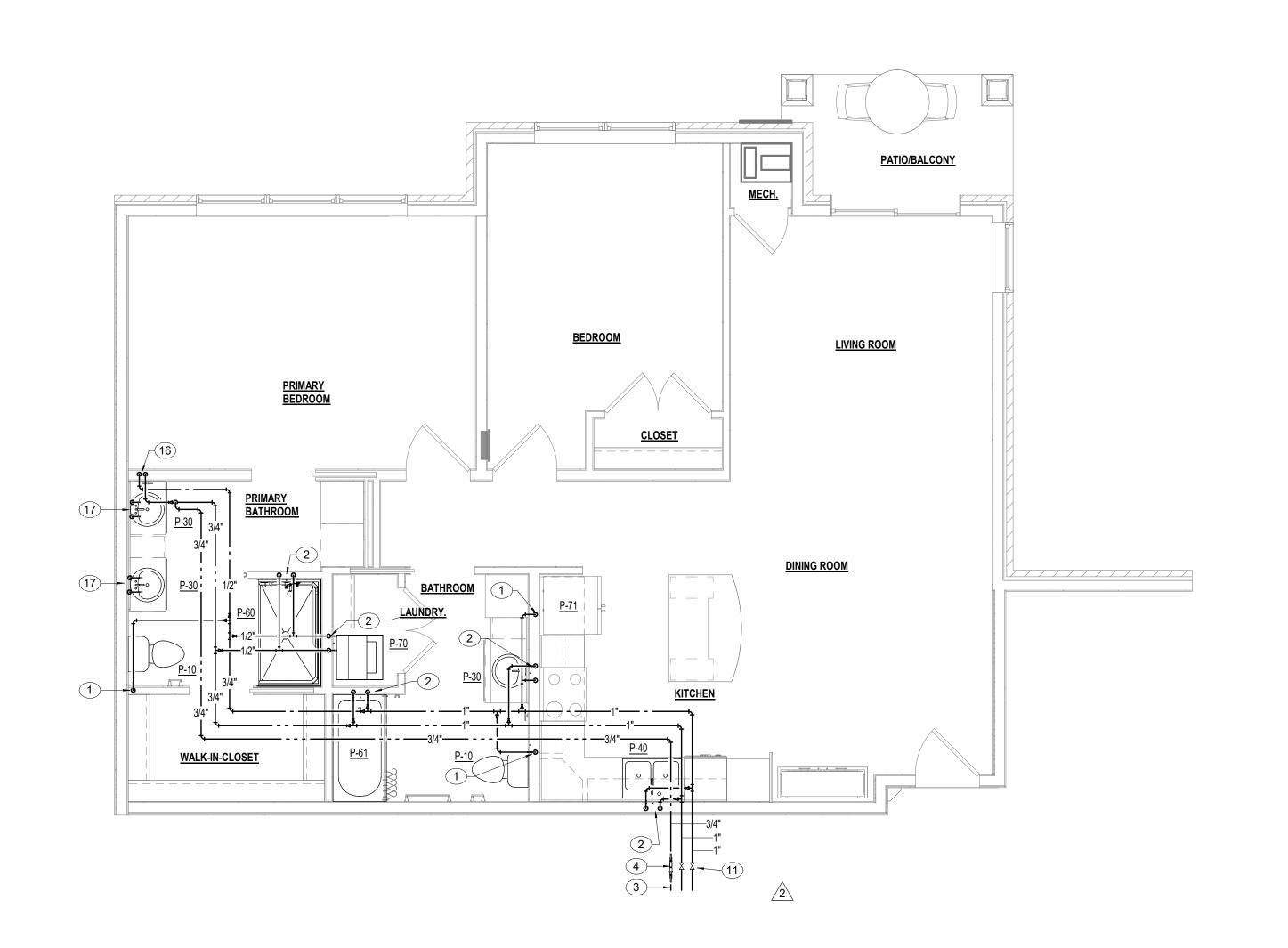
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4 UNIT PLUMBING PLAN - CYPRESS & WILLOW

PLAN NOTES (CONTINUED) 26. 3/4" CW LINE OUT TO SITE 5'-0". SEE CIVIL SITE PLANS FOR CONTINUATION OF CW LINE TO DOG PARK.

WATER LINE TO DOG PARK.

27. PROVIDE 3/4" REDUCED PRESSURE ZONE BACKFLOW PREVENTER

APPROVED AIR GAP. PROVIDE VALVE AND BLOWOUT PORT

EQUAL TO WATTS 909S WITH STRAINER AND VALVES IN CW LINE. EXTEND DRAIN LINE TO NEAREST DRAIN AND SPILL WITH CODE

DOWNSTREAM OF BACKFLOW PREVENTER TO ALLOW FOR DRAINING OF

AND CONFIGURATION OF THE UNIT IN THE BUILDING. PIPING ROUTED IN JOIST SPACE AND THROUGH JOISTS SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH JOIST MANUFACTURERS RECOMMENDATIONS. COORDINATE PIPE ROUTING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. PIPING SHOWN IS SCHEMATIC AND

REFER TO FLOOR PLANS FOR ORIENTATION OF UNIT PLANS. UNIT PIPING MAY BE MIRRORED AND/OR OPPOSITE HAND BASED ON THE LOCATION

INDICATED FOR DESIGN INTENT.

GENERAL NOTES

PLAN NOTES (

. 1/2" CW LINE DOWN TO FIXTURE AND CONNECT. 2. 1/2" CW, 1/2" HW LINES DOWN TO FIXTURE(S) AND CONNECT.

. REFER TO FLOOR PLAN FOR CONTINUATION OF CW, HW LINES AND UNIT SHUT-OFF VALVE LOCATIONS.

PROVIDE HOT WATER RETURN "CIRCUIT SOLVER" ASSEMBLY IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. REFER TO DETAIL,

SHEET P0.1 FOR ADDITIONAL INFORMATION.

5. 3" DOMESTIC WATER SERVICE. SEE CIVIL SITE PLANS FOR CONTINUATION.

REFER TO WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM SHEET P0.2 FOR CONTINUATION OF PIPING AND ADDITIONAL INFORMATION.

7. 1-1/4" (2 PSI) NATURAL GAS UP, 2-1/2" COLD WATER, 2" HOT WATER, 1-1/4" HOT WATER RECIRCULATION UP, AND 1-1/4" HOT WATER RECIRCULATION UP.

8. GAS METER, METER LOOP, PIPING VALVES, BY-PASS, VENTS REGULATORS AND ETC. AS REQUIRED BY LOCAL GAS COMPANY. PAINT ALL EXPOSED GAS PIPING AND ACCESSORIES WITH TWO COATS OF RUST INHIBITOR TYPE PAINT. COLOR TO BE DETERMINED BY GAS

COMPANY. 2 PSIG SERVICE PRESSURE. 9. REFER TO FLOOR PLANS FOR CONTINUATION OF LINES.

10. INDICATES FLOW DIRECTION IN PIPE (TYPICAL).

11. PROVIDE SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. LOCATION OF VALVES SHOWN IS BASED ON LAY-IN CEILING LOCATIONS. (TYPICAL FOR ALL SHUT-OFF VALVES SHOWN ON THIS SHEET, UNLESS NOTED OTHERWISE).

12. NATURAL GAS OUT TO SITE. REFER TO CIVIL ENGINEERS PLANS FOR

13. REFER TO FIRST FLOOR WATER AND GAS PLAN FOR CONTINUATION OF GAS PIPING TO GENERATOR.

14. 1" POLYETHYLENE (2 PSI) GAS LINE ROUTED BELOW GRADE. PROVIDE MINIMUM OF 24" OF COVER. PROVIDE TRACER WIRE AND WARNING TAPE IN TRENCH ABOVE PIPING. REFER TO WARNING TAPE TRACER WIRE DETAIL SHEET P0.1. 15. 1" (2 PSI) POLYETHYLENE GAS LINE UP FROM BELOW GRADE. PROVIDE

ANODELESS RISER ASSEMBLY AND TERMINATE TRACER WIRE ON STEEL PIPING AS REQUIRED. 16. WHERE LAVATORIES ARE LOCATED ON AN EXTERIOR WALL, ROUTE PIPING DOWN IN INTERIOR WALL AND BELOW FLOOR/SLAB TO

LAVATORIES LOCATED ON EXTERIOR WALL. 17. 1/2" CW, HW LINES UP FROM BELOW FLOOR/SLAB TO LAVATORY AND

CONNECT. NO PIPING TO BE ROUTED IN EXTERIOR WALL. ROUGH-IN PIPING THROUGH BASE CABINET. 18. GAS FIRED WATER HEATER. REFER TO EQUIPMENT SCHEDULE SHEET

P0.0 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM SHEET P0.2 FOR ADDITIONAL INFORMATION. 9. THERMOSTATIC MIXING VALVE ASSEMBLY MOUNTED ON WALL 5'-0"

ABOVE FINISHED FLOOR TO CENTERLINE. REFER TO EQUIPMENT SCHEDULE SHEET PO.0 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM SHEET P0.2 FOR ADDITIONAL INFORMATION.

20. EXPANSION TANK. REFER TO EQUIPMENT SCHEDULE SHEET P0.0 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM SHEET P0.2 FOR ADDITIONAL INFORMATION.

. HOT WATER RETURN CIRCULATING PUMP MOUNTED ON WALL 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE. REFER TO EQUIPMENT SCHEDULE SHEET P0.0, IN-LINE RECIRCULATION PUMP PIPING DIAGRAM SHEET P0.1 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM

SHEET P0.2 FOR ADDITIONAL INFORMATION.

PREDUCED PRESSURE PRINCIPLE TYPE BACKFLOW PREVENTERS. REFER TO EQUIPMENT SCHEDULE SHEET P0.0 AND BACKFLOW PREVENTER DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION.

3. GAS PRESSURE REGULATOR STATION. REFER TO DETAIL AND SCHEDULE SHEET P0.1 FOR ADDITIONAL INFORMATION. VERIFY EXACT

24. 3/4" CW LINE DOWN TO WALL HYDRANT AND CONNECT. PROVIDE SHUT-OFF VALVE IN LINE TO WALL HYDRANT. WALL HYDRANT TO BE USED FOR SYSTEM DRAIN AS WELL.

25. 1-1/4" (2 PSI) GAS LINE UP ON WALL. PROVIDE MAIN GAS SHUT OFF VALVE IN VERTICAL LINE 48" ABOVE FLOOR. PROVIDE SIGN AT VALVE STATING "MAIN GAS SHUT OFF VALVE - DO NOT OPERATE".

CONSTRUCTION SET NUMBER PE-2023009252



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ENLARGED PLANS -PLUMBING

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PROVIDE <u>P-41</u> AT FIRST FLOOR

IN LIEU OF <u>P-40</u>.

UNIT B, BIRCH (ADA) E123 UNIT

LIVING ROOM

DINING ROOM

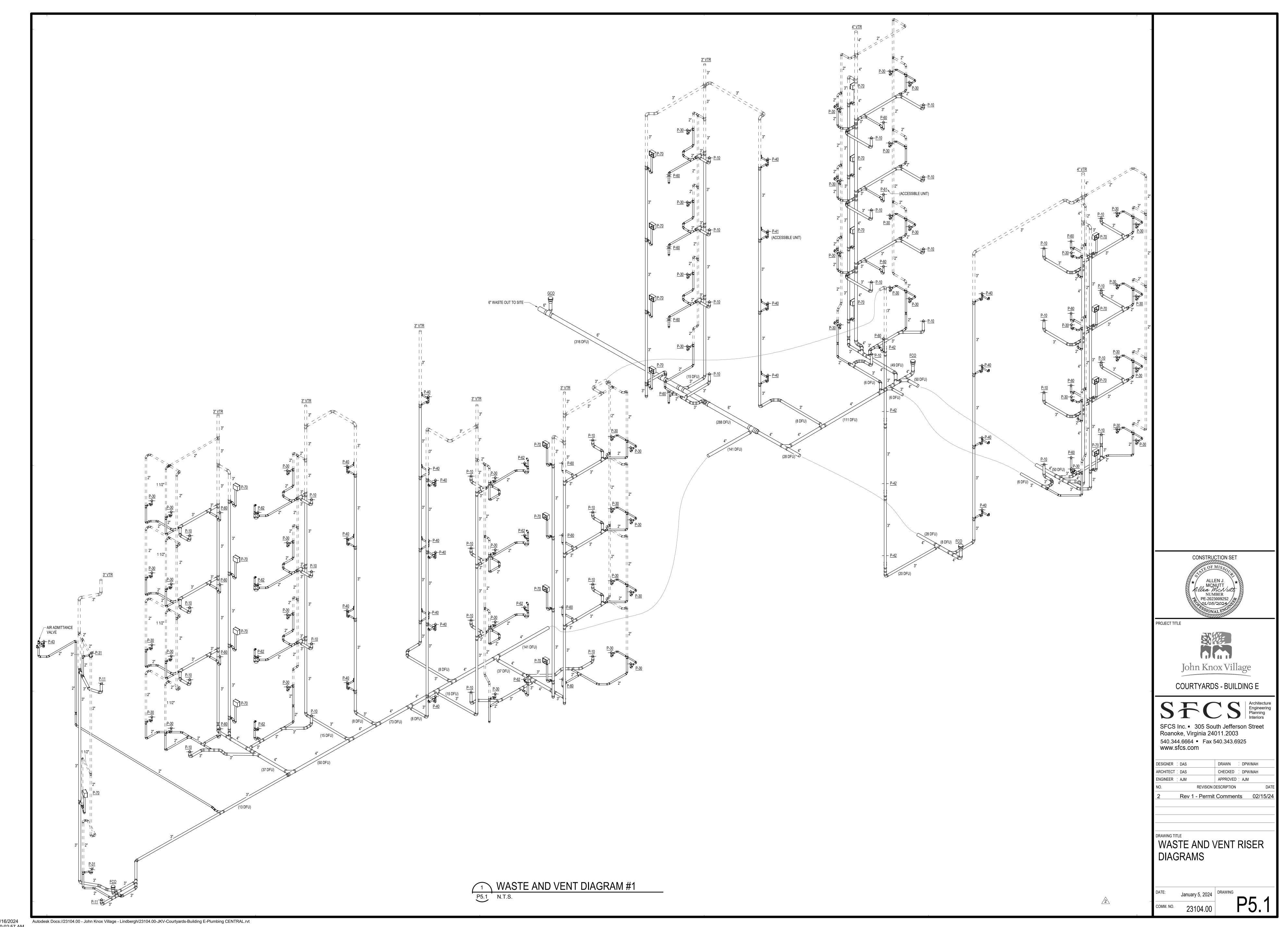
BEDROOM

PROVIDE $\underline{ ext{P-61}}$ at first floor -

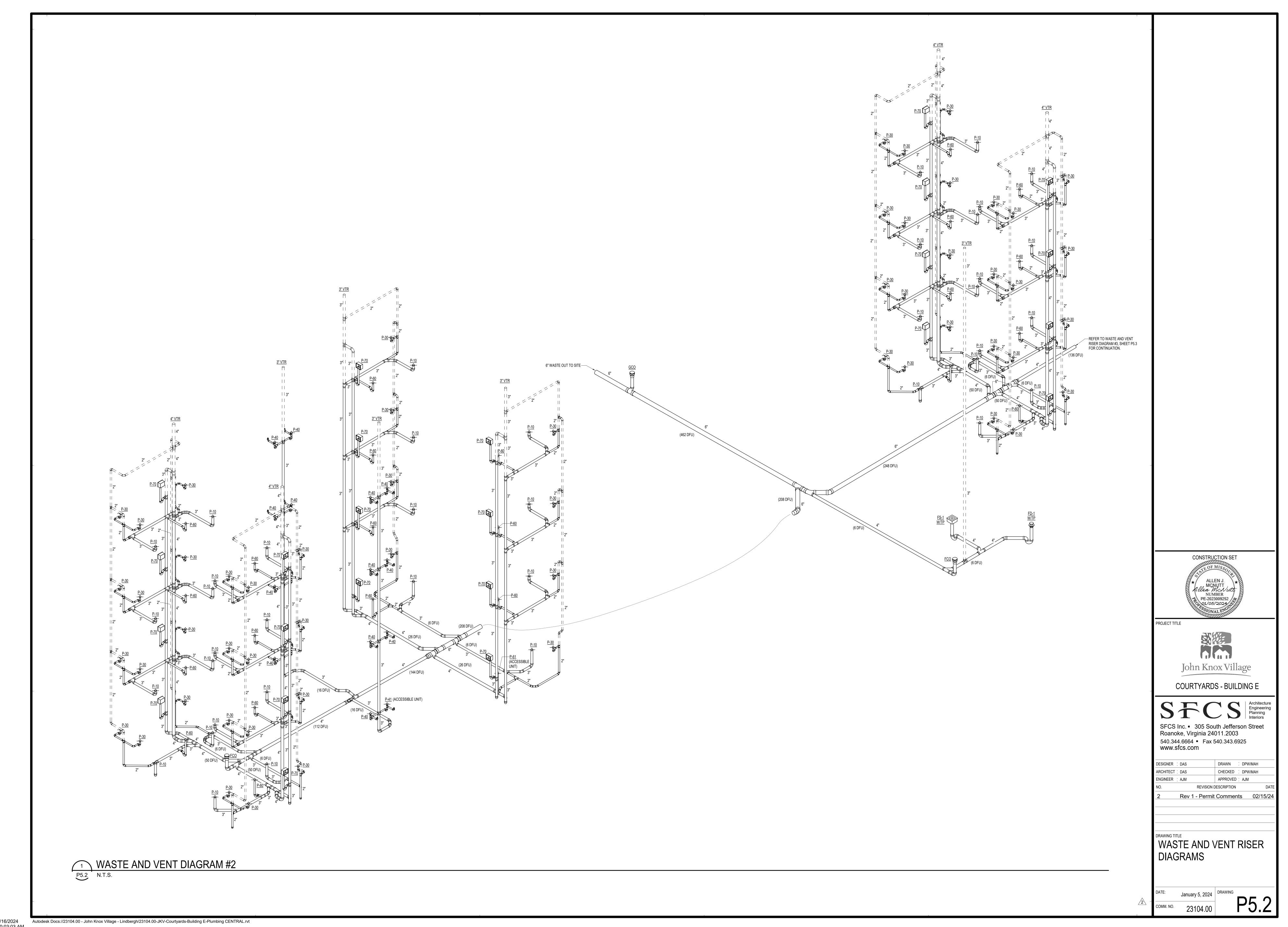
UNIT B, BIRCH (ADA) E123 UNIT

UNIT PLUMBING PLAN - BIRCH
P4.1 1/4" = 1'-0"

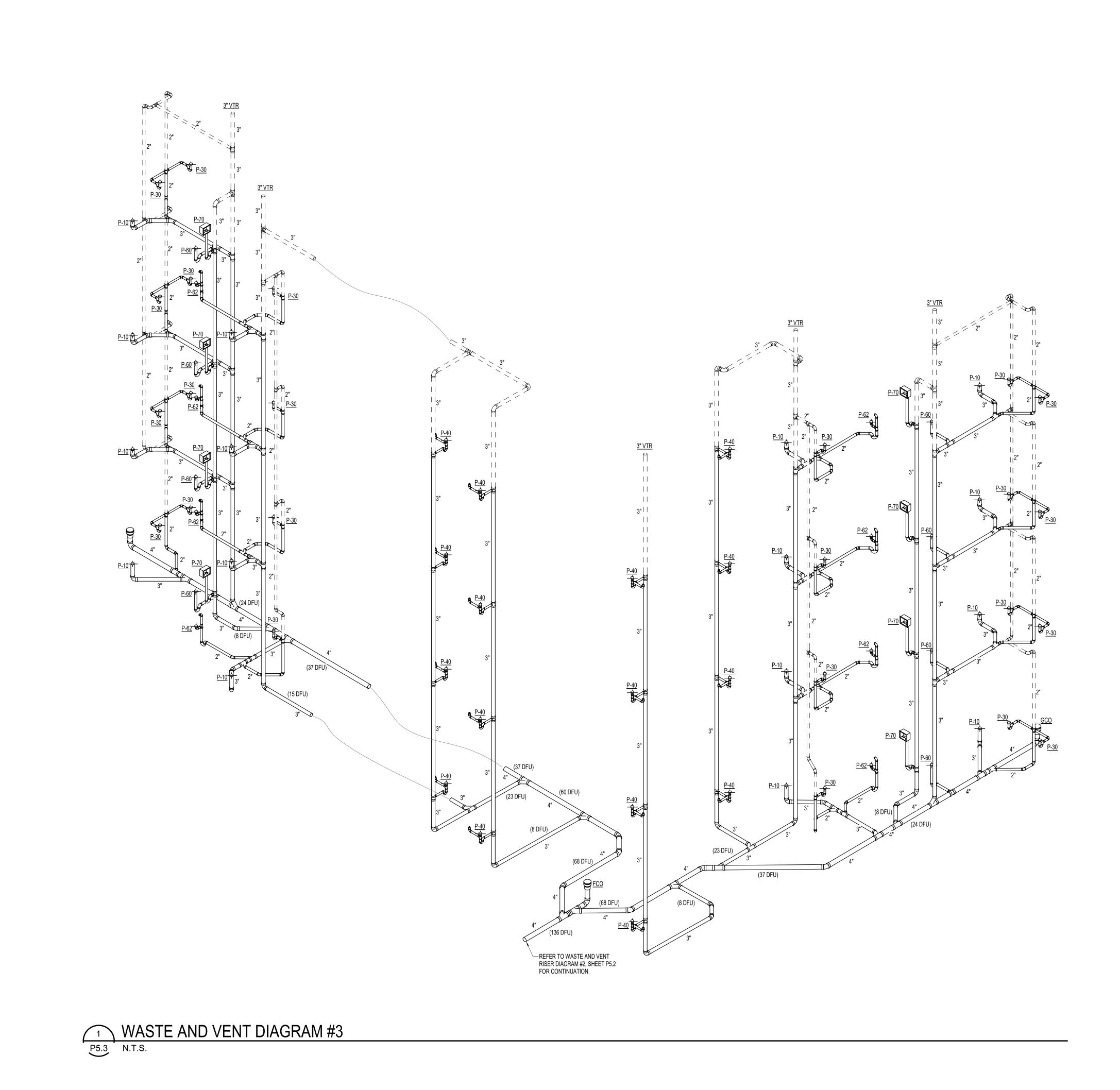
UNIT PLUMBING PLAN - CEDAR

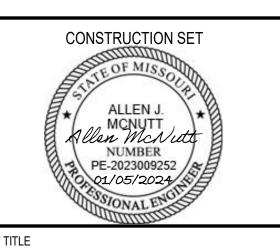


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PROJECT TITLE

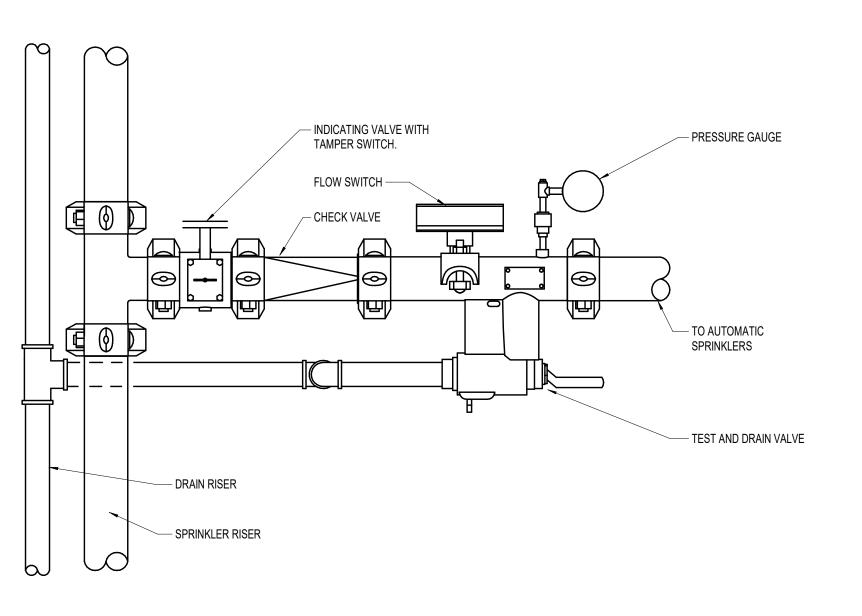
John Knox Village COURTYARDS - BUILDING E

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540.344.6664 • Fax 540.343.6925
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DESIGNER : DAS ARCHITECT : DAS CHECKED : DPW/MAH APPROVED : AJM REVISION DESCRIPTION Rev 1 - Permit Comments 02/15/24

WASTE AND VENT RISER DIAGRAMS

REFER TO FLOOR PLAN — FOR CONTINUATION. - CHECK VALVE WITH BALL DRIP; MAY BE MOUNTED IN HORIZONTAL OR VERTICAL MAIN FLOW SWITCH ----- PRESSURE GAUGE WET SYSTEM VALVE — (TYPICAL) - STANDPIPE HOSE CONNECTION AT SYSTEM MAIN DRAIN 48" ABOVE STAIR LANDING OR INTERMEDIATE LANDING VALVE WITH TAMPER -SWITCH (TYPICAL) — FIRE DEPARTMENT CONNECTION — 2" SYSTEM DRAIN BACKFLOW PREVENTER ASSEMBLY — STANDPIPE RISER (CLASS I "MANUAL" GRADE FLANGED SPIGOT -- RISER CLAMP FOOTING RODDED PIPING -FLOOR / LANDING THRUST BLOCK PER -NFPA REQUIREMENTS FIRE SERVICE LINE FIRE SERVICE ENTRANCE DETAIL 3 HOSE VALVE DETAIL



1 FLOOR CONTROL STATION

GENERAL FIRE SUPPRESSION NOTES

- A. ALL PIPE SIZES INDICATED ON PLANS ARE MINIMUM PIPE SIZES. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE SIZES, PIPING CONFIGURATIONS, AND ETC. AS REQUIRED TO MEET SYSTEM HYDRAULIC CALCULATIONS, BUILDING CONDITIONS, ALL APPLICABLE NFPA STANDARDS AND BUILDING CODES/LOCAL
- B. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE FIRE PROTECTION SYSTEM TO PROVIDE COVERAGE FOR THE ENTIRE PREMISES. INCLUDE ALL PIPING AND ACCESSORIES PER THE REQUIREMENTS OF ALL APPLICABLE CODES, NFPA-13, NFPA-13R NFPA-14, NFPA 24 AND OWNER'S FIRE AND CASUALTY INSURER.
- C. THE SPRINKLER SYSTEM SHALL BE INSTALLED ACCORDING TO ALL FEDERAL, STATE, LOCAL, AND NFPA STANDARDS, ANY WORK INDICATED ON PLANS THAT IS ABOVE AND
- BEYOND REGULATIONS SHALL BE INSTALLED AS INDICATED ON PLANS OR IN SPECS. D. THE FIRE PROTECTION CONTRACTOR SHALL AVOID CONFLICT WITH DUCTWORK, LIGHTS,

CONDUITS, PIPING, STRUCTURAL MEMBERS, AND ETC. AND REROUTE LINES AS

- E. SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE LOCATED IN CENTER OF TILES, ONE DIRECTION AND NO CLOSER THAN 12" IN THE OTHER DIRECTION IN 2X4 TILES. SPRINKLER HEADS LOCATED IN DRYWALL CEILINGS SHALL BE LOCATED SYMMETRICALLY WITH OTHER ITEMS IN CEILING.
- F. FIRE PROTECTION CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ELECTRICAL PANELS, SWITCHES, MOTOR CONTROL CENTERS, AND ETC. REWORK LINES AND HEADS AS REQUIRED TO AVOID HAVING THEM DIRECTLY ABOVE ELECTRICAL EQUIPMENT.
- G. THE FIRE PROTECTION CONTRACTOR SHALL CONSIDER ALL LOCATIONS OF LIGHTS, DIFFUSERS, RETURN GRILLES, SPRINKLER HEADS, AND ETC. TO BE APPROXIMATE LOCATIONS AND SHOULD BE VERIFIED ON SITE BEFORE ANY WORK IS BEGUN. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- H. HANGERS AND SUPPORTS SHALL BE NFPA APPROVED FOR CONSTRUCTION USE. ALSO, SAME SHALL MEET NFPA AND PIPE MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, LOCATIONS AND SPACING. HANGERS AND SUPPORTS SHALL BE RATED AND INSTALLED FOR SEISMIC REQUIREMENTS.
- I. PIPING PASSING THROUGH FIRE RATED SURFACES SHALL BE PROVIDED WITH SCHEDULE 40 CARBON STEEL SLEEVES FIRE-STOPPED WITH FIRE SEALANT APPROVED BY AUTHORITY HAVING JURISDICTION FOR ASSEMBLY BEING PENETRATED.
- J. DRAINS, DRAIN VALVES, FLUSHING CONNECTIONS, TEST CONNECTIONS, GAUGES, GUARDS, SHIELDS, AND SIMILAR ITEMS NECESSARY TO COMPLY WITH APPLICABLE
- CODES, STANDARDS AND/OR NFPA-13 SHALL BE FURNISHED AND INSTALLED. K. WHERE REQUIRED BY LOCAL AND STATE CODES, CONTRACTOR SHALL FURNISH AND INSTALL DEFLECTOR SHIELD ON SPRINKLER HEADS ADJACENT TO ELECTRIC PANELS, TELEPHONE BOARDS AND ELECTRICAL EQUIPMENT.
- L. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT PRINTS OF FIRE PROTECTION DESIGN TO OWNERS FIRE AND CASUALTY INSURER FOR APPROVAL. CONTRACTOR SHALL OBTAIN ALL APPROVALS FROM APPLICABLE STATE AND LOCAL AUTHORITIES. CONTRACTOR SHALL ALSO SUBMIT FIRE PROTECTION DESIGN TO ARCHITECT AND ENGINEER FOR REVIEW.
- M. ALL PIPING SHALL BE CONCEALED, WHERE APPLICABLE AND PITCHED FOR POSITIVE
- N. SPRINKLER CONTRACTOR SHALL INCLUDE NECESSARY ARCHITECTURAL ACCESS DOORS WITH APPROPRIATE FIRE RATING AND SHALL MATCH ARCHITECTURAL FINISH WHERE NECESSARY FOR ACCESS TO VALVES, ETC. THESE ACCESS DOORS SHALL BE INDICATED ON SHOP DRAWINGS.
- O. WHERE SIDEWALL SPRINKLER HEADS ARE INSTALLED THRU WALL/SOFFIT, CONTRACTOR SHALL INSTALL ESCUTCHEON PLATES FLUSH WITH WALL/SOFFIT.
- P. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL FIRE RATED WALL AND CEILING INFORMATION.
- Q. OVERHANGS AND CANOPIES SHALL BE PROVIDED WITH SPRINKLER COVERAGE WHERE REQUIRED BY NFPA-13, STATE AND LOCAL CODES.
- R. ALL CEILING CAVITIES WITH COMBUSTIBLE CONSTRUCTION MATERIALS SHALL BE PROVIDED WITH SPRINKLER COVERAGE WHERE REQUIRED BY NFPA-13 AND ALL STATE/LOCAL CODES.
- S. REFER TO SPECIFICATIONS FOR HAZARD CLASSIFICATIONS FOR VARIOUS AREAS THROUGHOUT BUILDING.
- T. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL FIRE PROTECTION PIPING.
- U. WHERE BACKFLOW PREVENTER IS REQUIRED, CONTRACTOR SHALL PROVIDE FORWARD FLOW TESTING PROVISION IN ACCORDANCE WITH NFPA REQUIREMENTS.

SPRINKLER HEAD SCHEDULE

QUICK RESPONSE, CONCEALED TYPE PUBLIC AREAS WITH DRYWALL OR HARD SPRINKLER HEAD WITH WHITE COVER CEILINGS

QUICK RESPONSE, CONCEALED TYPE CORRIDORS, LOBBY AND SIMILAR SPACES SPRINKLER HEAD WITH WHITE COVER WITH SUSPENDED ACOUSTICAL TILE CEILINGS

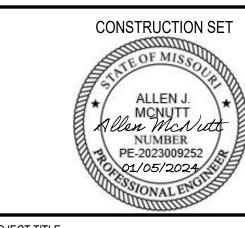
QUICK RESPONSE, UPRIGHT TYPE MECHANICAL ROOMS, STORAGE ROOMS AND SPRINKLER HEAD (MAY USE PENDANT SIMILAR SPACES WITHOUT CEILINGS WHERE APPLICABLE)

FLOW TEST INFORMATION

1800 GPM

FLOW TEST PERFORMED BY: CITY OF LEE'S SUMMIT

FLOW TEST PERFORMED ON: 3-19-2021 STATIC PRESSURE: RESIDUAL PRESSURE: 56 PSI



PROJECT TITLE



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RCHITECT : DAS	CHECKED	DPW/MAH
NGINEER : AJM	APPROVED	AJM
0.	REVISION DESCRIPTION	DATE
3	Addendum 1	03/07/24

FIRE SUPPRESSION INFORMATION

NOTE:
FIRE SUPPRESSION SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED AS ONE COMPLETE SUBMITTAL PACKAGE. INFORMATION INCLUDED IN SUBMITTAL SHALL BE PROJECT SPECIFIC AND CLEARLY IDENTIFIED.

INFORMATION INDICATED ON THESE DRAWINGS IS FOR DESIGN INTENT

SUPPRESSION SYSTEM FOR THIS BUILDING IS A DELEGATED DESIGN TO

ELECTRICAL CONNECTIONS ASSOCIATED WITH THE SYSTEM ARE NOTED

BE PROVIDED BY A LICENSED FIRE SUPPRESSION CONTRACTOR. ALL

TAMPER SWITCHES, FLOW SWITCHES, PRESSURE SWITCHES AND

ON THESE DOCUMENTS TO ASSIST THE DELEGATED DESIGN FIRE

ALL POINTS TO BE MONITORED WITH FIRE ALARM CONTRACTOR.

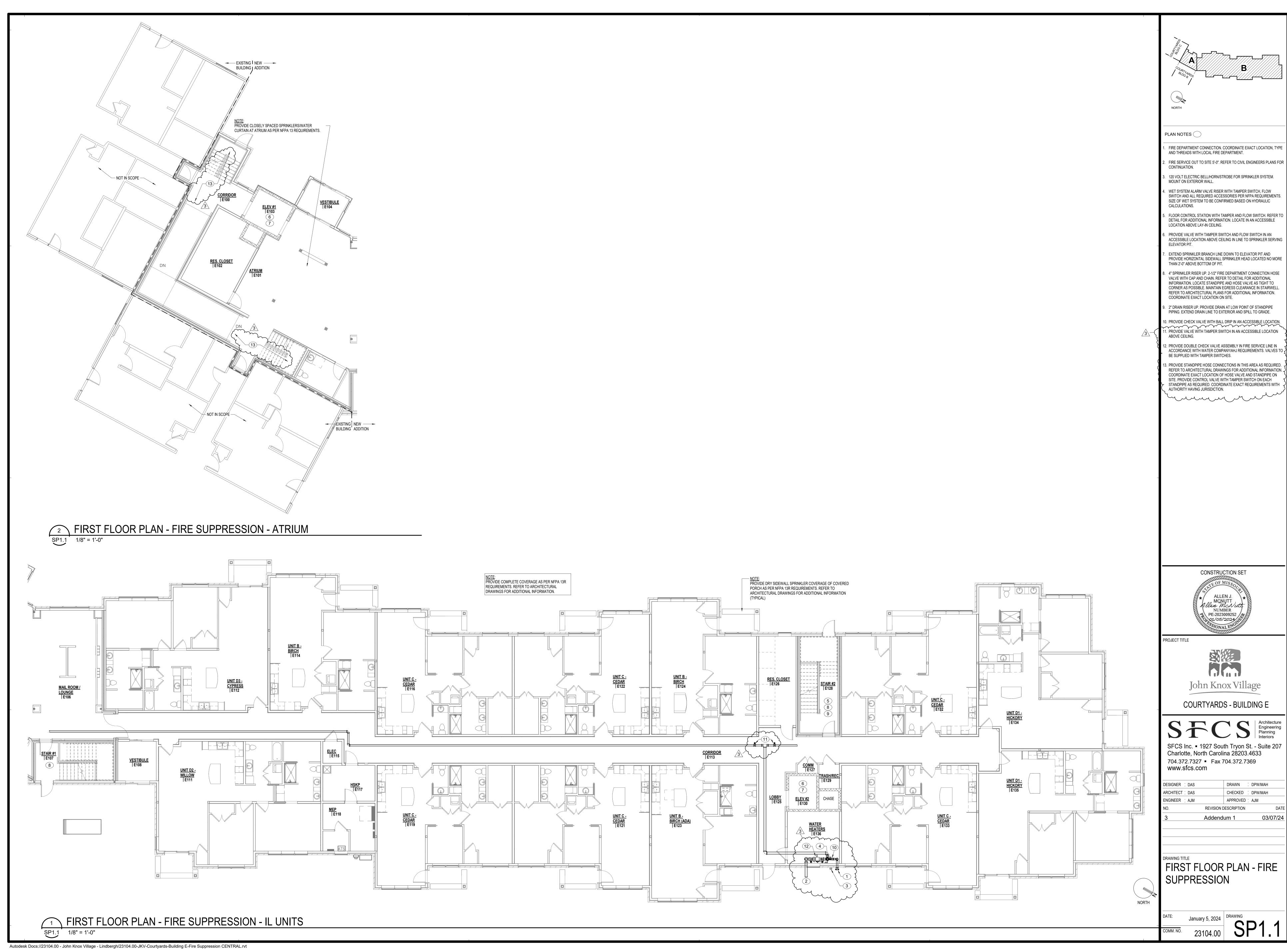
DOCUMENTS. FIRE SUPPRESSION CONTRACTOR SHALL BE

SUPPRESSION AND FIRE ALARM CONTRACTORS IN PREPARING THEIR

RESPONSIBLE TO COORDINATE EXACT QUANTITIES AND LOCATIONS OF

AND INFORMATION ONLY. THE DESIGN AND LAYOUT OF THE FIRE

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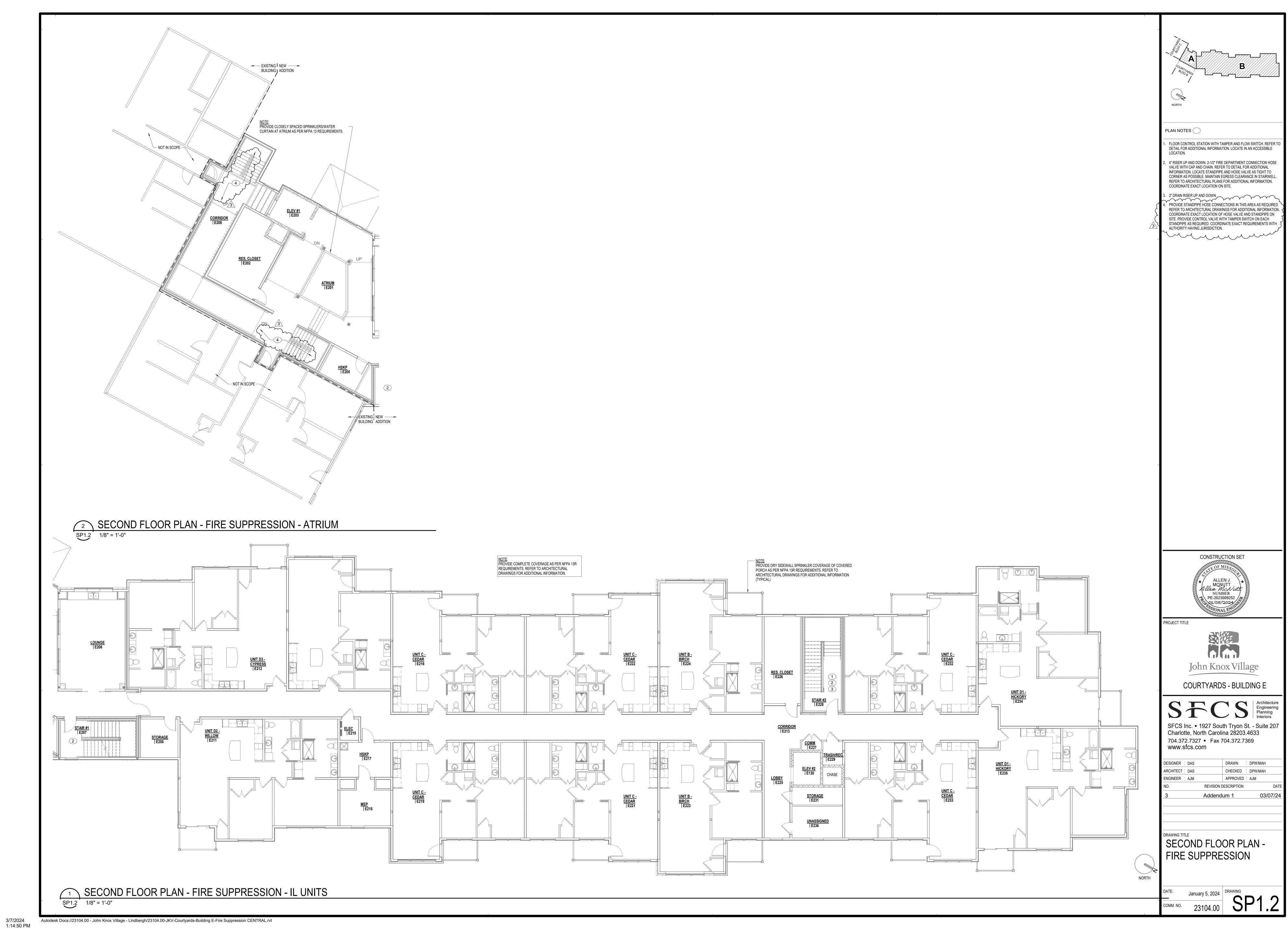
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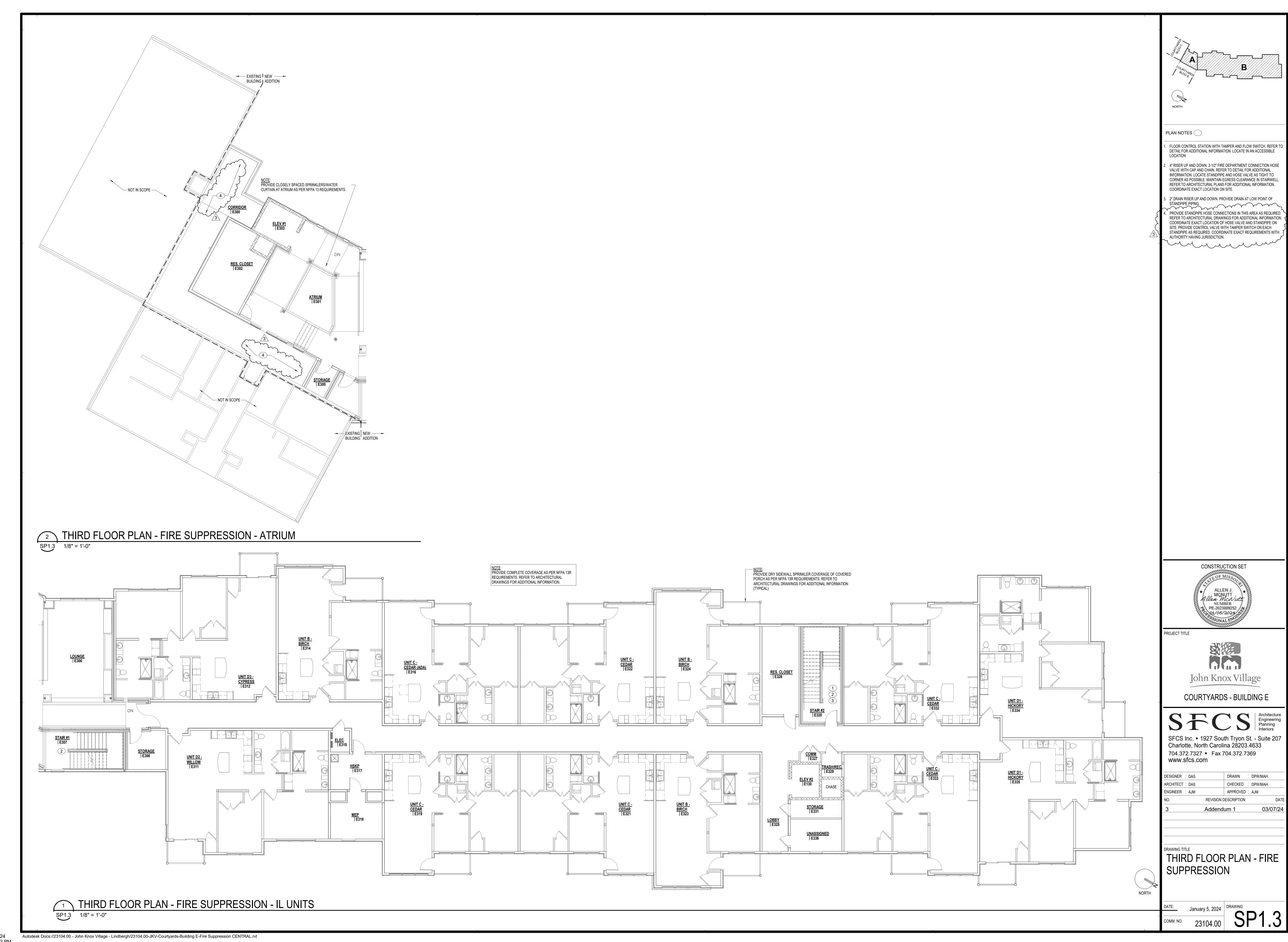
REVISION DESCRIPTION

Addendum 1

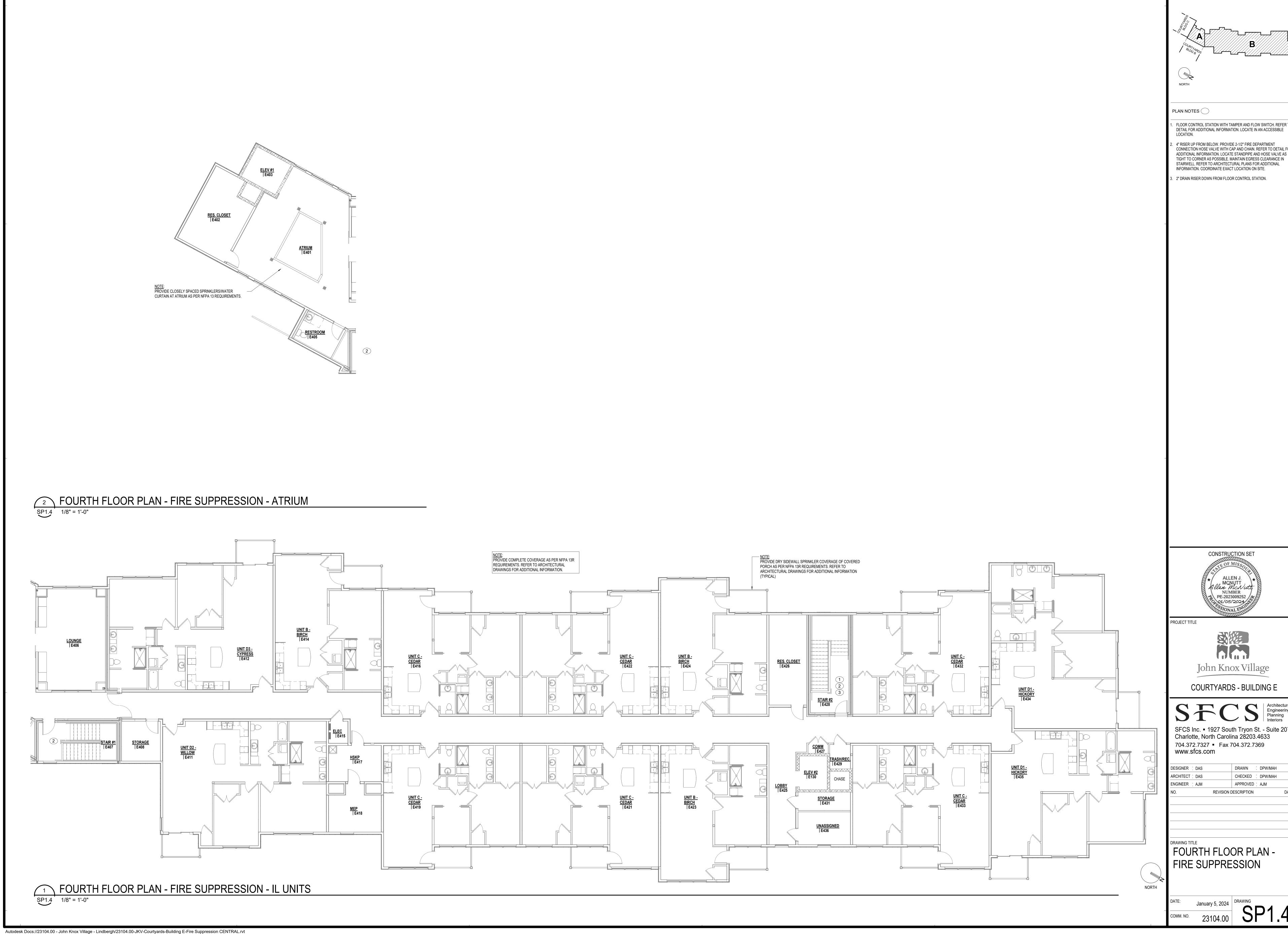
CONSTRUCTION SET

John Knox Village





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1. FLOOR CONTROL STATION WITH TAMPER AND FLOW SWITCH. REFER TO DETAIL FOR ADDITIONAL INFORMATION. LOCATE IN AN ACCESSIBLE

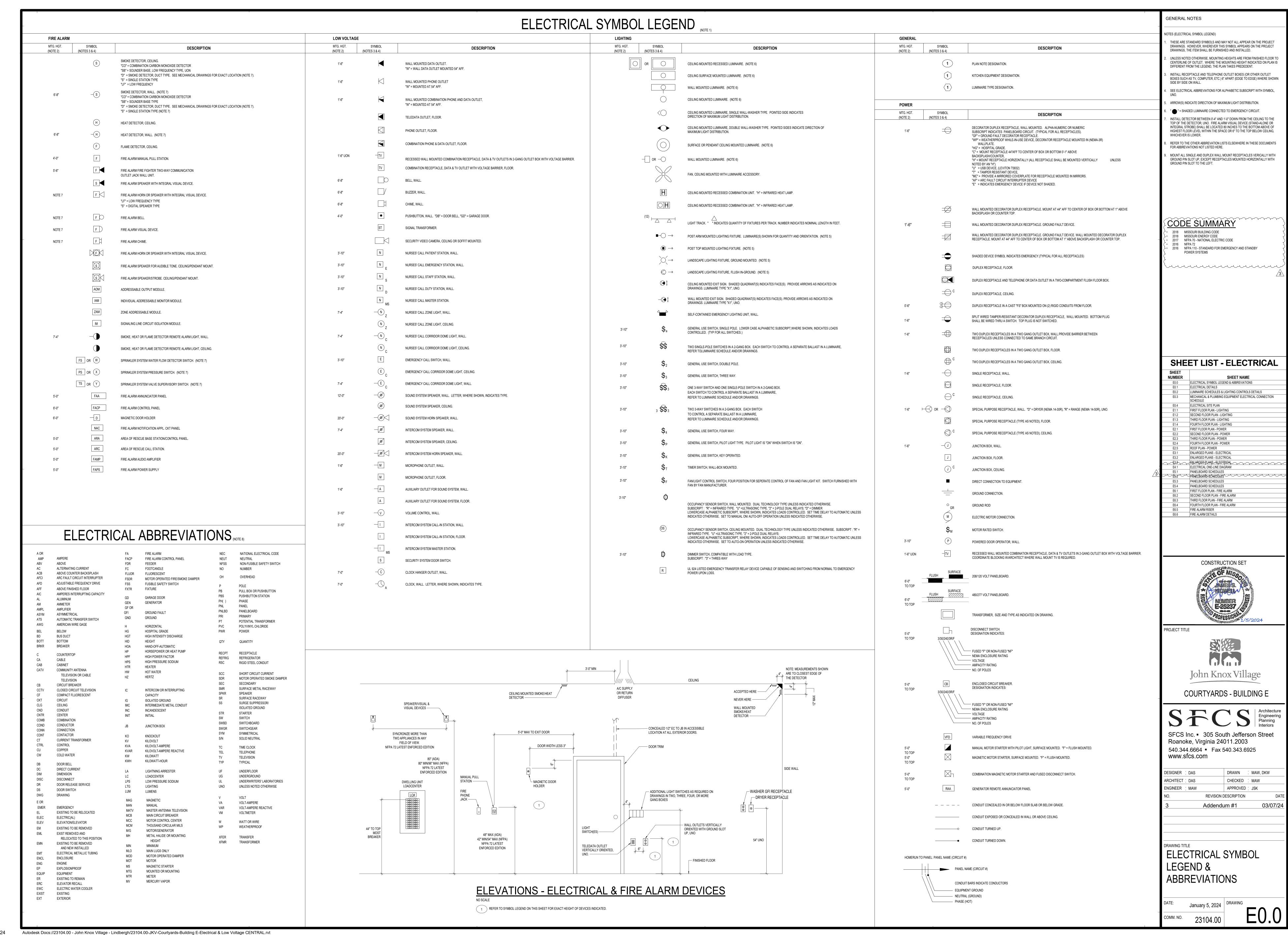
2. 4" RISER UP FROM BELOW. PROVIDE 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN. REFER TO DETAIL FOR ADDITIONAL INFORMATION. LOCATE STANDPIPE AND HOSE VALVE AS

INFORMATION. COORDINATE EXACT LOCATION ON SITE.

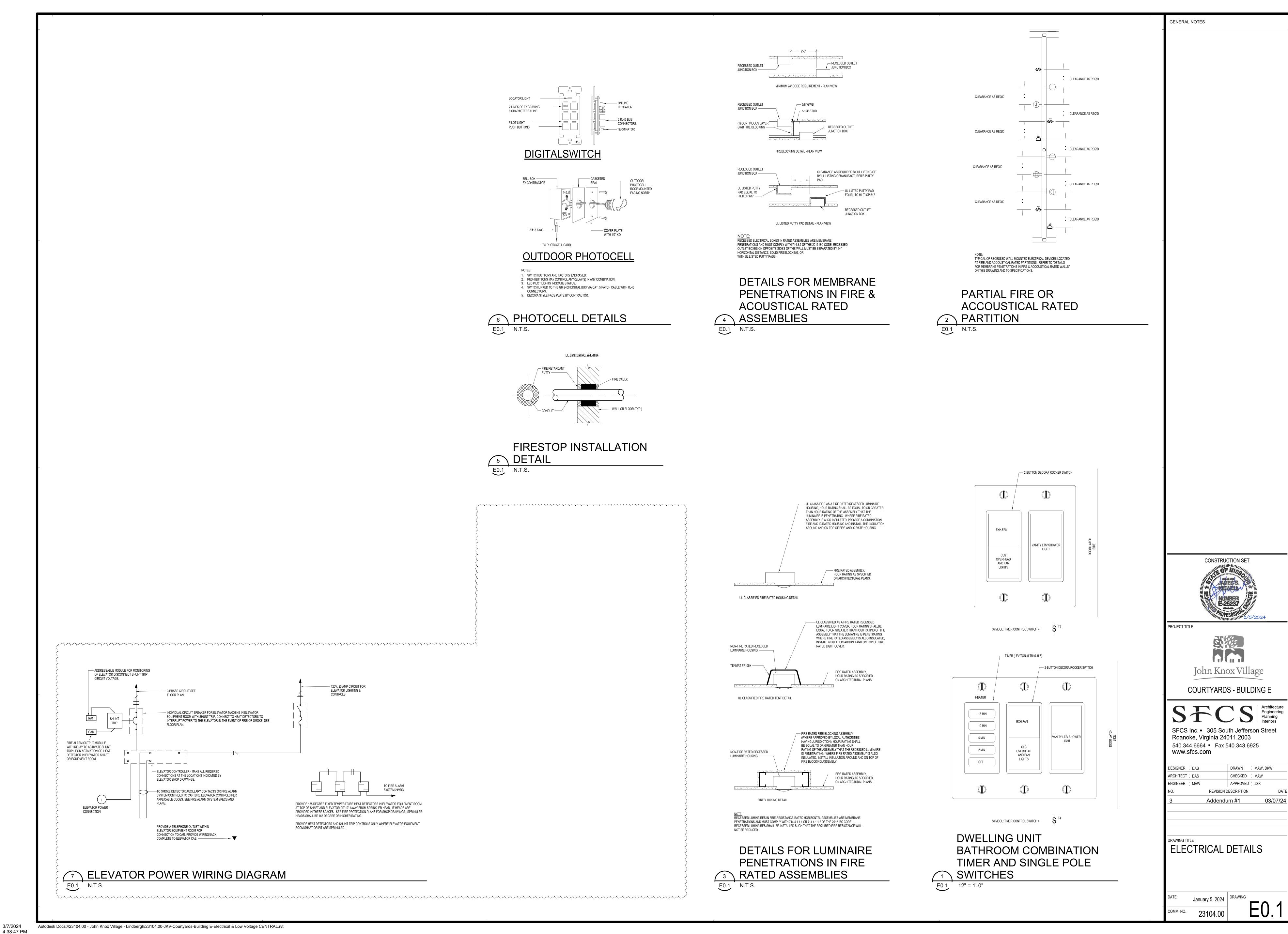
SFCS Inc. • 1927 South Tryon St. - Suite 207 Charlotte, North Carolina 28203.4633 704.372.7327 Fax 704.372.7369 www.sfcs.com

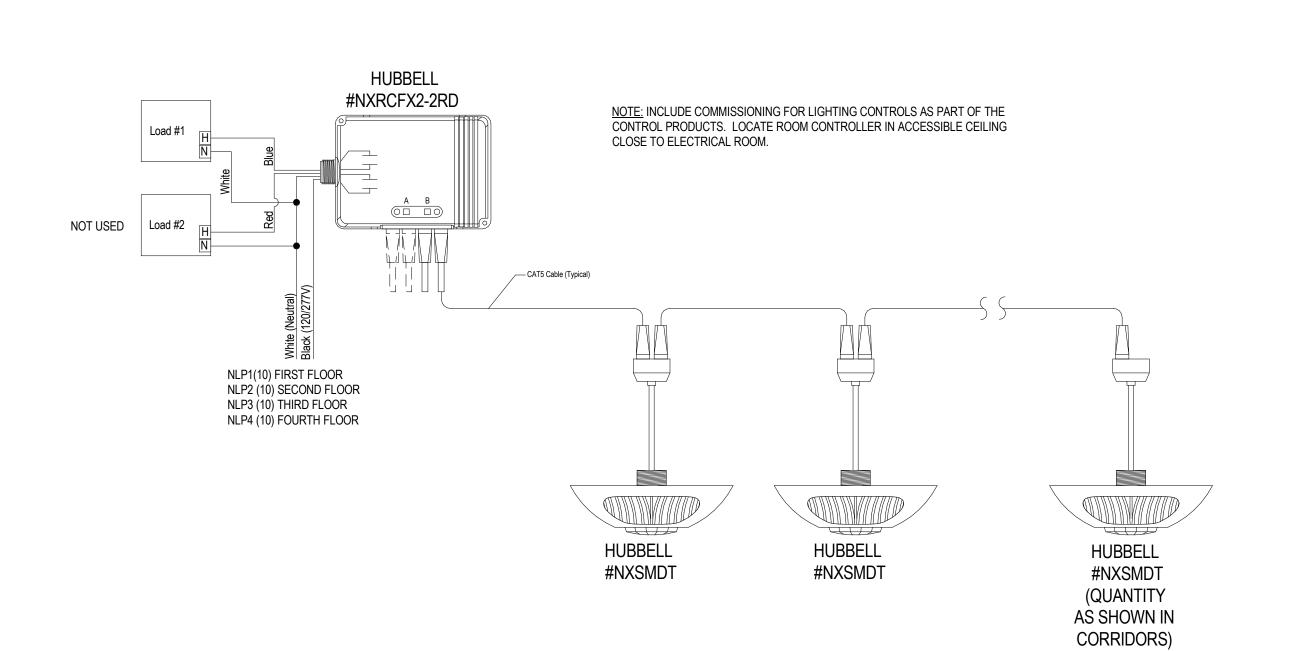
CHECKED : DPW/MAH APPROVED : AJM REVISION DESCRIPTION

FOURTH FLOOR PLAN -



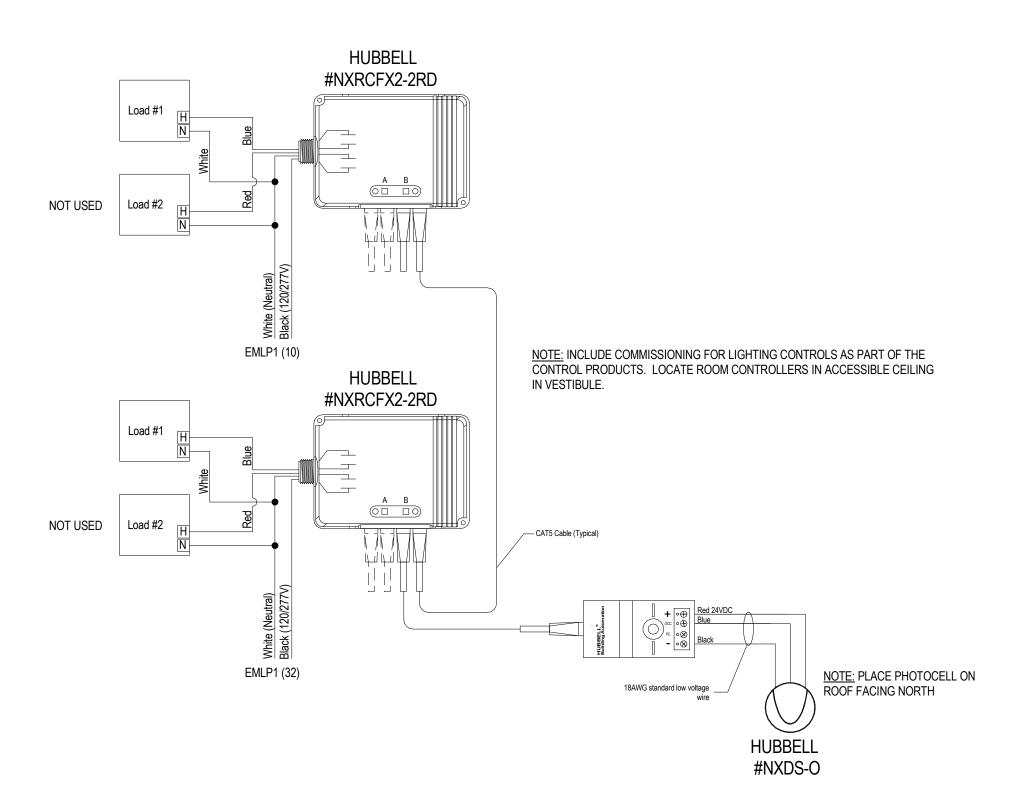
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CORRIDOR LIGHTING CONTROL DIAGRAM

(TYPICAL FOR EACH FLOOR)



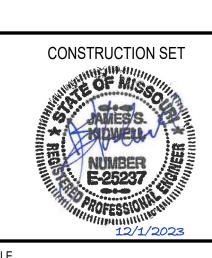
EMERGENCY EXTERIOR LIGHTING CONTROL DIAGRAM

(CONTROLLING ALL "TYPE 7" FIXTURES AT ENTRY AND EXIT DOORS)

LUMINAIRE TYPE		DESCRIPTION	T			LAMP	PS		_	TOTAL			
	LUMINAIRE DESCRIPTION	MANUFACTURER	LUM CATALOG NUMBER	QTY	ТҮРЕ	NOM. WATTS	INITIAL LUMENS	TEMP. COLOR (KELVINS)	VOLTS	CONNECTED WATTS	MOUNTING	FINISH	REMARKS
1	2X2 DIRECT/INDIRECT RECESSED. FIELD ADJUSTABLE LUMEN AND CCT SELECTORS. 0-10V DIMMABLE.	ORACLE LIGHTING	22 OEVHP LED 3000 DIM10 MVOLT 35K 85	1	LED	21	3178	3500	MVOLT	21	RECESSED		
2	6" LED DOWNLIGHT, CLEAR SPECULAR, 0-10V DIMMING	PRESCOLITE	HOUSING #LTR-6RD-H- ML- 25L DM1 NXE TRIM# LTR-6RD-T ML 30K9 WD S WT	1	LED	28	2500	3000	MVOLT	28	RECESSED	CLEAR SPECULAR WITH WHITE FLANGE	
3	4'-0"L LED STRIPLIGHT W/ FROSTED LENS	COLUMBIA	MPS 4 30 ML F W U	1	LED	40	4800	3000	MVOLT	40	SURFACE OR CHAIN	FROSTED LENS	
4	SURFACE MOUNT LED WALL BRACKET (STAIR) WITH INTEGRAL OCCUPANCY SENSOR OPTION	LITHONIA	WL4 30L EZ1 LP30 XADNS7 DIM10	1	LED	28	3952	3000	120/277	28	SURFACE	SURFACE WALL AT 7'-6' TO CL OF JBOX	LIGHT OUTPUT DIMS TO 10% IN UNOCCUPIED MODE. FIXTURES SHA CAPABLE OF COMMUNICATION WITH NEIGHBORING FIXTURES TO A FOR ILLUMINATION OF ALL FIXTURES IN STAIRWELL UPON DETECT MOVEMENT.
5	2'-0 LONG LED WALL MOUNT VAPORPROOF LED ELEVATOR PIT LIGHT ACRYLIC DIFFUSER	LITHONIA	DMW2 L24 4000LM MD AFL MVOLT GZ1 30K 80CRI	1	LED	40	5000	3000	120/277	40	SURFACE WALL	GASKETED VAPORPROOF	MOUNT FIXTURE AT APPROXIMATELY 5'-0" AG
6	7" ROUND LED SLIM SURFACE MOUNT DOWNLIGHT	ELITE LIGHTING	RL791-900L-DIMTR-120-30K-90-WH	1	LED	14	900	3000	120	14	SURFACE	WHITE	
7	EXTERIOR WALL PACK FOR EGRESS LIGHTING, DUAL POWER FEEDS	CURRENT	QSP2-160L-75-4K7-3-UNV-BLT-2PF	2	LED	72	9996	4000	120/277	72	SURFACE WALL AT 10'-0"AFG	BLACK	DUAL DRIVER. DUAL FEED PER CODE
8	LED AREA FIXTURE WITH A 16' STEEL POLE	LLITHONIA	RSX2-P4-40K-R4-MVOLT-SPA-PE-DBLXD, SSS-16'-4G-DM19AS-STLHHC-FBCSTL2PC-DBLX D	1	LED	187	25329	4000	120/277	187	POLE MOUNT	BLACK	
9	POLE MOUNTED DECORATIVE PENDANT STYLE LED LUMINAURE WITH DECORATIVE ARM AND POLE BASE	VISIONAIRE LIGHTING (TO MATCH EXISTING) - NO EQUALS	ODN-2-L-T4-80LC-3-4K-UNV-UAM-(COLOR TO MATCH)-C6/H1 (FIXTURE), RNTA-5R-188-16-CB-343-T238R-BK (POLE), DCB-14-5RS-BK (POLE BASE), VA103-L-S1-3-BK (MOUNTING ARM)	1	LED	54	6653	4000	120/208	54	POLE MOUNT	TO MATCH EXISTING	MATCH EXISTING LIGHT POLES ON SITE
10	(2) LED AREA FIXTURE WITH A 16' STEEL POLE MOUNTED AT 90 DEGREES FROM EACH OTHER	LLITHONIA	(2)RSX2-P4-40K-R4-MVOLT-SPA-PE-DBLXD, (1)SSS-16'-4G-DM29AS-STLHHC-FBCSTL2PC-DB LXD		LED	187	25329	4000	120/277	374	POLE MOUNT	BLACK	
X1	EDGE LIT LED EXIT SIGN. 2-CIRCUIT	LITHONIA	EDG-1 (OR 2)-RMR-X2		LED	2.5	N/A	N/A	120/277	2.5	UNIVERSAL, CEILING/WALL		REFER TO LIGHTING FLOOR PLANS FOR # OF FACES AND DIRECTIC CHEVRONS. PROVIDE TWO CIRCUITS, ONE TO NORMAL LTG BRANC CIRCUIT IN AREA THE OTHER TO THE EMERGENCY BRANCH CIRCU INDICATED.
X2	WHITE THERMOPLASTIC LED EXIT SIGN. 2-CIRCUIT	LITHONIA	LQM S W 3 R 120/277 X2		LED	2.5	N/A	N/A	120/277	2.5	UNIVERSAL, CEILING/WALL	RED LETTERS	REFER TO LIGHTING FLOOR PLANS FOR # OF FACES AND DIRECTIC CHEVRONS. PROVIDE TWO CIRCUITS, ONE TO NORMAL LTG BRANC CIRCUIT IN AREA, THE OTHER TO THE EMERGENCY BRANCH CIRCUINDICATED.
Х3	WET LOCATION LISTED LED EXIT SIGN. 2-CIRCUIT	LITHONIA	WLTE W 1 R		LED	5	N/A	N/A	120/277	5	UNIVERSAL, CEILING/WALL	RED LETTERS	REFER TO LIGHTING FLOOR PLANS FOR # OF FACES AND DIRECTIC CHEVRONS. PROVIDE EMERGENCY BRANCH CIRCUIT INDICATED.
L DECORATIV OORDINATE T L EMERGENC FERIOR / EXT	TO ALL LUMINAIRE SCHEDULES: /E LIGHT FIXTURE FINISHES SHALL BE DETERMINED BY AND COOR HE FINISHED CEILING HEIGHTS WITH THE ARCHITECT/INTERIOR DE CY LIGHT FIXTURES AND EXIT SIGNS SHALL MEET N.F.P.A. LIFE SAE ERIOR FIXTURES FINISHES' SUBJECT TO APPROVAL / CHANGE BY A SARY MOUNTING TRIMS WITH ARCHITECTURAL REFLECTED CEILIN	ESIGNER DRAWINGS FOR APPROF FTY REQUIREMENTS. ARCHITECT. VERIFY PRIOR TO RE	PRIATE STEM LENGTHS OF PENDANT MOUNTED F	AL.									I

	DECORATIVE LUMINAIRE SCHEDULE													
	DESCRIPTION					LAMI	PS .			TOTAL				
LUMINAIRI TYPE	LUMINAIRE DESCRIPTION	MANUFACTURER	LUM CATALOG NUMBER	QTY	ТҮРЕ	NOM. WATTS	INITIAL LUMENS	TEMP. COLOR (KELVINS)	VOLTS	CONNECTEI	MOUNTING	FINISH	REMARKS	
D1	30" DIA. IL CORRIDOR PENDANT.	LITETOPS	SS5-JKVC-DF10	3	GU24 LED	12	-	3000	120	36	PENDANT	STANDARD POWDER COAT BRONZE	ORDER WITH OPAL MATTE ACRYLIC DIFFUSER/ OFF WHITE LINEN/ CHOCOLATE TRIM. PROVIDE FIXTURE WITH DIMMABLE LED LAMPS COMPARABLE TO 60W INCANDESCENT	
D2	1ST FLOOR VESTIBULES FLUSH MOUNT	ULTRALIGHT	CUSTOM CABLE HUNG DRUM PENDANT DF4	4	GU24 LED	12	-	3000	120	48	FLUSH MOUNT	STANDARD POWDER COAT FINISH W/ OPAL ACRYLIC DIFFUSER		
D3	IL CORRIDOR DWELLING UNIT ENTRY WALL SCONCE	HUBBARDTON FORGE	BANDED SCONCE #205812-1074	1	A19 - LED	10	-	3000	120	10	SURFACE WALL	OIL RUBBED BRONZE	PROVIDE A ALLOWANCE OF \$300 PER WALL SCONCE	
D4	36" DIA. CHANDELIER AT TOP OF ATRIUM.	METROPOLITAN LIGHTNIG FIXTURE CO.	N6967-1-267B	5	E26 - MED LED	12	-	3000	120	60	PENDANT	CIMARRON BRONZE	PROVIDE FIXTURE WITH DIMMABLE LED LAMPS COMPARABLE TO 60W INCANDESCENT	
D5	30" DIA LOUNGE PENDANTS. MOUNTED AT VARIOUS HEIGHTS INDICATED ON FLOOR PLANS.	METROPOLITAN LIGHTNIG FIXTURE CO.	N6965-1-267B	4	E26 - MED LED	12	-	3000	120	48	PENDANT	CIMARRON BRONZE	PROVIDE FIXTURE WITH DIMMABLE LED LAMPS COMPARABLE TO 60W INCANDESCENT	
D6	24" DIA. 2ND & 4TH FLOOR LOUNGE PENDANT.	ULTRALIGHT	TAMBOUR 13223-24	3	LED	12	-	3000	120	30	PENDANT	CAST BRONZE W/ OPA SHADE	PROVIDE FIXTURE WITH DIMMABLE LED LAMPS COMPARABLE TO 60W INCANDESCENT	
D7	ATRIUM DECORATIVE WALL SCONCE	RENAISSANCE LIGHTING	RL-4-0708-ADA	1	LED	15	-	3000	120	15	SURFACE WALL	MEDIUM BRONZE PC V FROSTED WHITE ACRYLIC SHADE	PROVIDE FIXTURE WITH DIMMABLE LED LAMPS COMPARABLE TO 60W INCANDESCENT	
D8	30" WIDE WALL FIXTURE DESIGNED AS A PICTURE LIGHT	HINKLEY	ARTI LARGE ADJUSTABLE ACCENT LIGHT ITEM # 47095HB	2	EE6/T14/LE D	4.5	350	2700	120V	10	WALL PPICTURE LIGH	F HERITAGE BRASS	PICTURE LIGHT. VERIFY MOUNTING HEIGHT WITH INTERIORS PRIOR TO INSTALLATION.	

			RESIDENT DW	/ELLI	ING U	NIT L	UMIN	AIRE SC	HEDU	JLE				
UMINAIRE	DESCRIPTION					LAMPS				TOTAL				
TYPE	LUMINAIRE DESCRIPTION	MANUFACTURER	LUM CATALOG NUMBER	QTY	ТҮРЕ	NOM. WATTS	INITIAL LUMENS	TEMP. COLOR (KELVINS)	VOLTS	CONNECTED WATTS	MOUNTING	FINISH	REMARKS	
U1	6" LED WAFER DOWNLIGHT, DIMMABLE	COOPER LIGHTNIG	SLD606-9-30-WH	1	LED	13	800	3000	120	13	RECESSED CEILING	WHITE		
U2	BAHTROOM VANITY LIGHT WITH ETCHED GLASS SHADES	PROGRESS LIGHTNIG	P300160-009	3	LED - E26	7	-	3000	120	21	SURFACE WALL AT 7'-0" TO CL OF JBOX	BRUSHED NICKEL	PROVIDE DIMMABLE LED LAMPING EQUIVALENT TO 100W INCANDESCENT WITH FIXTURE. LOCATE ABOVE VANITY MIRROR.	
U3	BEDROOM / DEN 54" 5 BLADE CEILING FAN W/ LIGHT KIT	HARBOR BREEZE	SAILOR BAY 52" BRUSHED NICKEL LED INDOOR DOWNROD	3	LED A15	7	-	3000	120	21	SURFACE	BRUSHED NICKEL		
U4	MINI-PENDANT ABOVE KITCHEN ISLAND	PROGRESS LIGHTNIG	P500125-009	1	LED-E26	16	-	3000	120	16	PENDANT, 5'-6" TO BOTTOM OF SHADE	BRUSHED NICKEL	PENDANT MOUNT OVER COUNTER - COORDINATE OAH WITH ARCHITECTURAL AND INTERIOR ELEVATIONS. PROVIDE DIMMABLE LED LAMPING EQUIVALENT TO 100W INCANDESCENT WITH FIXTURE. REFR TO ELEVATIONS FOR MTG. HT.	
U5	4' LED STRIP WITH LENS	HE WILLIAMS	75S-4-L30-830-DIM-UNV	1	LED	19.6	2830	3000	120/277	19.6	SURFACE	WHITE	MOUNT FIXTURE ON CEILING DIRECTLY ABOVE DOOR IN SMALL CLOSETS, OTHER LOCATIONS AS SHOWN ON PLANS.	
U6	FLUSH MOUNT IN DWELLING UNIT CORRIDOR	PROGRESS LIGHTNIG	P3852-09	2	LED-E26	16	-	3000	120	32	FLUSH MOUNT	BRUSHED NICKEL	PROVIDE WITH DIMMABLE LED LAMP	
U7	4" LED RECESSED DOWNLIGHT-SHOWERLIGHT WITH FLUSH NON-CONDUCTIVE LENS	HE WILLIAMS	4DR-TL-L10-8-35-DIM1-UNV-S-W-OF-WH-AD-N-F1	1	LED	9	1000	3500	120	9	RECESSED	WHITE	STANDARD WITH AD DIFFUSE ACRYLIC LENS AND IP/WET STANDARD OPTION	
U8	EXTERIOR LANTERN ON DWEELING UNIT PATIO/ BALCONY	PROGRESS LIGHTNIG	P6052-20	1	LED	10	-	3000	120	10	SURFACE WALL AT 7'-10" TO CTR OF JBOX ABOVE PATIO DOOR	BLACK	PROVIDE DIMMABLE LED LAMPING EQUIVALENT TO 100W INCANDESCENT WITH FIXTURE. INSTALL AT 6'-8" TO BOTTOM OF FIXTURE.	
U9	2' LED STRIP WITH LENS	HE WILLIAMS	75S-2-L20-830-DIM-UNV	1	LED	14.5	1976	3000	120/277	14.5	SURFACE	WHITE	MOUNT FIXTURE ON WALL DIRECTLY ABOVE DOOR IN SMALL CLOSETS, OTHER LOCATIONS AS SHOWN ON PLANS.	
U10	FLUSH MOUNT ABOVE DINING TABLE.	PROGRESS LIGHTNIG	P3852-09	2	LED-E26	16	-	3000	120	32	FLUSH MOUNT	BRUSHED NICKEL	PROVIDE WITH DIMMABLE LED LAMP	
U11A	18" LED UNDERCABINET FIXTURE	ELITE LIGHTING	EU-LED-18-450L-DIMTR-120-30K-WH	1	LED	7	600	3000	120	7	UNDERCABINET	WHITE	DETERMINE WHICH LENGTH TO USE WITH THE WIDTH OF THE UPPER CABINET	
U11B	12" LED UNDERCABINET FIXTURE	ELITE LIGHTING	EU-LED-12-450L-DIMTR-120-30K-WH	1	LED	4.6	450	3000	120	5	UNDERCABINET	WHITE	DETERMINE WHICH LENGTH TO USE WITH THE WIDTH OF THE UPPER CABINET	



PROJECT TITLE

GENERAL NOTES

John Knox Village

SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003

COURTYARDS - BUILDING E

540.344.6664 Fax 540.343.6925 www.sfcs.com ARCHITECT : DAS CHECKED : MAW APPROVED : JSK

REVISION DESCRIPTION FDP 1

LUMINAIRE SCHEDULES & LIGHTING CONTROLS DETAILS

Autodesk Docs://23104.00 - John Knox Village - Lindbergh/23104.00-JKV-Courtyards-Building E-Electrical & Low Voltage CENTRAL.rvt

MECHANICAL & PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

1 2P, 30A, 240V, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.

1 MANUFACTURER PROVIDED NON-FUSED DISCONNECT SWITCH.

3P, 80A, 240V, DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.

3P, 80A, 240V, DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.

3P, 150A, 240V, DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.

MANUFACTURER PROVIDED DISCONNECT SWITCH AND ECM

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MANUFACTURER PROVIDED DISCONNECT SWITCH AND ECM

12P,,30A, 240V, DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.

1P,,30A, 240V, DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.

1 2P, 30A, 240V, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.

1 2P, 30A, 240V, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.

2P, 30A, 240V, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.

2P, 30A, 240V, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.

1 2P, 30A, 240V, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.

JUNCTION BOX

3/4" 1 JUNCTION BOX 3/4" 1 JUNCTION BOX

MANUFACTURER PROVIDED DISCONNECT SWITCH.

MANUFACTURER PROVIDED DISCONNECT SWITCH.

3/4" 1 2P, 30A, 240V, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.

3/4" 1 MANUFACTURER PROVIDED NON-FUSED DISCONNECT SWITCH.

3/4" 1 MANUFACTURER PROVIDED NON-FUSED DISCONNECT SWITCH.

Disconnect

Load Name

EF-1 (UNIT B)

EF-1 (UNIT C)

EF-1 (UNIT D1)

EF-1 (UNIT D2)

EF-1 (UNIT D3)

EF-2 (RES. CLOSET #E302)

EF-2 (RES. CLOSET #E402)

F-2 (ATRIUM ROOF)

VPTAC-1 (UNIT B)

VPTAC-2 (UNIT C)

VPTAC-3 (UNIT D1)

VPTAC-3 (UNIT D2)

VPTAC-3 (UNIT D3)

WTR-HTR-1 (CONTROLS)

WTR-HTR-2 (CONTROLS)

EWH-1 (STAIRWELL #1, 4TH FLOOR)

EWH-1 (STAIRWELL #1, 1ST FLOOR)

EWH-1 (STAIRWELL #2, 4TH FLOOR)

EWH-1 (STAIRWELL #2, 1ST FLOOR)

CIRCULATION PUMP

CIRCULATION PUMP

EXHAUST FAN

SUMP PUMP

SUMP PUMP

WATER HEATER

WATER HEATER

ELECTRIC WALL HEATER

ELECTRIC WALL HEATER

ELECTRIC WALL HEATER

ELECTRIC WALL HEATER

ROOF TOP UNIT (DX COOLING & NAT GAS HEAT

ROOF TOP UNIT (DX COOLING & NAT GAS HEAT

ROOF TOP UNIT (DX COOLING & NAT GAS HEAT

VERTICAL PACKAGED TERMINAL AIR CONDITIONER UNITS (THRU WALL)

SMOKE EVACUATION EXHAUST FAN

SMOKE EVACUATION EXHAUST FAN

SMOKE EVACUATION EXHAUST FAN

THERMOSTATIC MIXING VALVE

Description

Load (VA) Voltage Poles

2 2-#12, 1-#12, 1-#12

1-#12, 1-#12, 1-#12

1-#12, 1-#12, 1-#12

1-#12, 1-#12, 1-#12

1-#12, 1-#12, 1-#12

1-#12, 1-#12, 1-#12

1-#12, 1-#12, 1-#12

1-#12, 1-#12, 1-#12

2-#12, 1-#12, 1-#12

2-#10, 1-#10, 1-#10

2-#10, 1-#10, 1-#10

2-#10, 1-#10, 1-#10

1-#10, 1-#10, 1-#10

1-#12, 1-#12, 1-#12

3-#3, 1-#3, 1-#8

3-#3, 1-#3, 1-#8

3-#3, 1-#3, 1-#6

3-#8, 1-#8, 1-#8

3-#8, 1-#8, 1-#8

3-#10, 1-#10, 1-#10

1-#8, 1-#8, 1-#8

1-#10, 1-#10, 1-#10

1-#12, 1-#12, 1-#12

2-#8, 1-#8, 1-#10

2-#6, 1-#6, 1-#10

208 V 2 2-#6, 1-#6, 1-#10

208 V 2 2-#6, 1-#6, 1-#10

7280 VA 208 V 2 2-#8, 1-#8, 1-#10

600 VA 120 V 1 1-#12, 1-#12, 1-#12 600 VA 120 V 1 1-#12, 1-#12, 1-#12

1123 VA

160 VA

160 VA

528 VA

528 VA

3000 VA

3000 VA

3000 VA

700 VA

528 VA

25560 VA

25560 VA

29880 VA

6012 VA

6012 VA

1176 VA

1176 VA

240 VA 7280 VA

9568 VA

Panel Circuit Number Rating

NLDP4 27 NLDP4 29,31,33 NLDP4 30,32,34 NLDP4 35,37,39 EMLP1 9,11,13 EMLP1 31,33,35 EMLP1 32,34,36 NLDP1 25

LC-D3

20 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

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OWN LC-D2 LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VE

OWN LC-D3 LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VE 20 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

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90 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

90 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
110 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

30 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN

30 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN

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LC-D3 LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VE

20 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

20 A VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

UNIT PLANS. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

ALL FED FROM THEIR OWN LC-D1 LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VERIFY LOCATION AND CONNECTI

UNIT PLANS. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

E435 ALL FED FROM THEIR OWN LC-D1 LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VERIFY LOCATION AND CONN

20 A THIS EXHAUST FAN IS CIRCUITED TO UNIT TYPE B THIS INFORMATION IS TYPICAL FOR THE EF-1 SERVING DWELLING UNITS #E114, E123, E124, E214, E223, E224, E314, E323.

20 A THIS EXHAUST FAN IS CIRCUITED TO UNIT TYPE C THIS INFORMATION IS TYPICAL FOR THE EF-1 SERVING DWELLING UNITS #E116, E119, E121, E122, E132, E132, E133, E216, E219,

20 A THIS EXHAUST FAN IS CIRCUITED TO UNIT TYPE D1 THIS INFORMATION IS TYPICAL FOR THE EF-1 SERVING DWELLING UNITS #E134, E135, E234, E235, E334, E335, E434 &

20 A THIS EXHAUST FAN IS CIRCUITED TO UNIT TYPE D2 THIS INFORMATION IS TYPICAL FOR THE EF-1 SERVING DWELLING UNITS #E111, E211, E311, E411 ALL FED FROM THEIR

20 A THIS EXHAUST FAN IS CIRCUITED TO UNIT TYPE D3 THIS INFORMATION IS TYPICAL FOR THE EF-1 SERVING DWELLING UNITS #E112, E212, E312, E412 ALL FED FROM THEIR

40 A THIS PTAC IS CIRCUITED TO UNIT TYPE B THIS INFORMATION IS TYPICAL FOR THE VPTAC-1 SERVING DWELLING UNITS #E114, E123, E124, E214, E223, E224, E314, E323,

40 A THIS PTAC IS CIRCUITED TO UNIT TYPE C THIS INFORMATION IS TYPICAL FOR THE VPTAC-2 SERVING DWELLING UNITS #E116, E119, E121, E122, E132, E133, E216, E219,

50 A THIS PTAC IS CIRCUITED TO UNIT TYPE D1 THIS INFORMATION IS TYPICAL FOR THE VPTAC-3 SERVING DWELLING UNITS #E134, E135, E234, E235, E334, E335, E434 & E435

50 A THIS PTAC IS CIRCUITED TO UNIT TYPE D2 THIS INFORMATION IS TYPICAL FOR THE VPTAC-3 SERVING DWELLING UNITS #E111, E211, E311 & E411 ALL FED FROM THEIR

50 A THIS PTAC IS CIRCUITED TO UNIT TYPE D3 THIS INFORMATION IS TYPICAL FOR THE VPTAC-3 SERVING DWELLING UNITS #E112, E212, E312, E412 ALL FED FROM THEIR OWN

OWN LC-D2 LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

E324, E414, E423 & E424 ALL FED FROM THEIR OWN LC-B LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR

E221, E222, E232, E233, E316, E319, E321, E322, E332, E333, E416, E419, E421, E422, E432 & E433 ALL FED FROM THEIR OWN LC-C LOAD CENTERS SHOWN ON ENLARGED

E221, E222, E232, E233, E316, E319, E321, E322, E332, E333, E416, E419, E421, E422, E432 & E433 ALL FED FROM THEIR OWN LC-C LOAD CENTERS SHOWN ON ENLARGED

E324, E414, E423 & E424 ALL FED FROM THEIR OWN LC-B LOAD CENTERS SHOWN ON ENLARGED UNIT PLANS. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR

	CONSTRUCTION SET AMESS NUMBER E-25237 POFESSION 1/5/2024
	ROFESSION 1/5/2024
DJECT TITLE	



COURTYARDS - BUILDING E

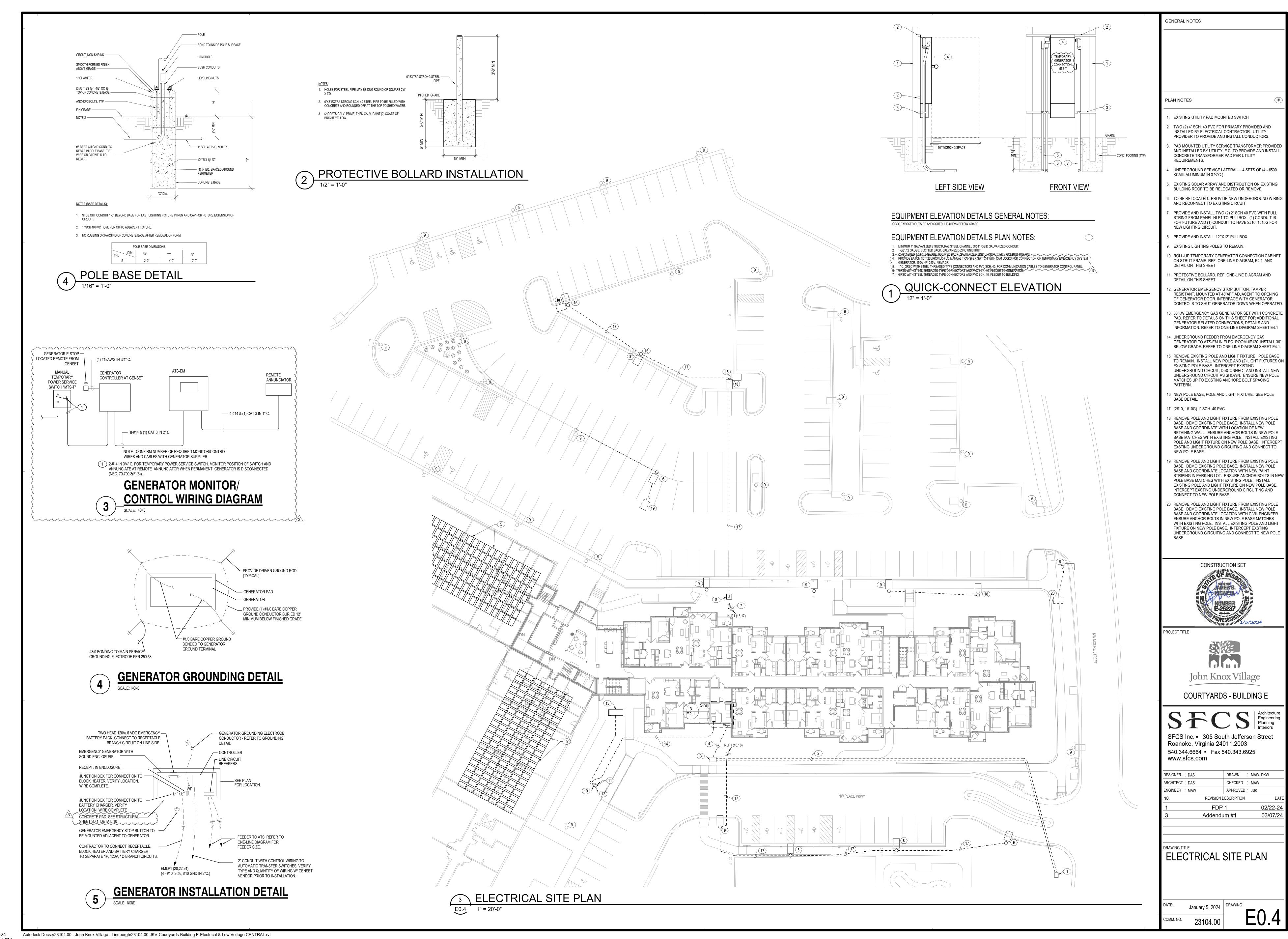
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2	Rev 1 - Permit	Commen	ıts	02/15
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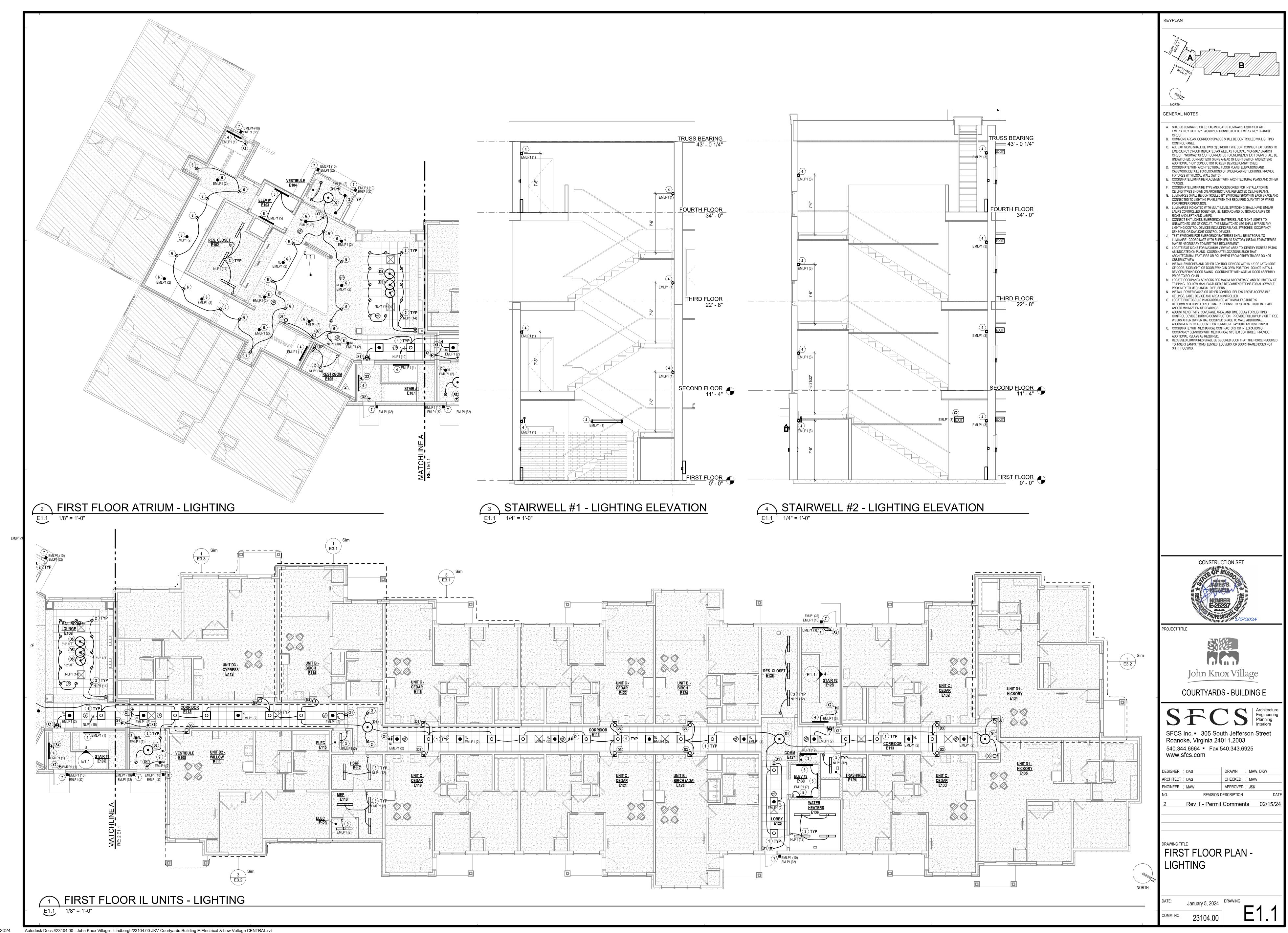
MECHANICAL & PLUMBING

EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

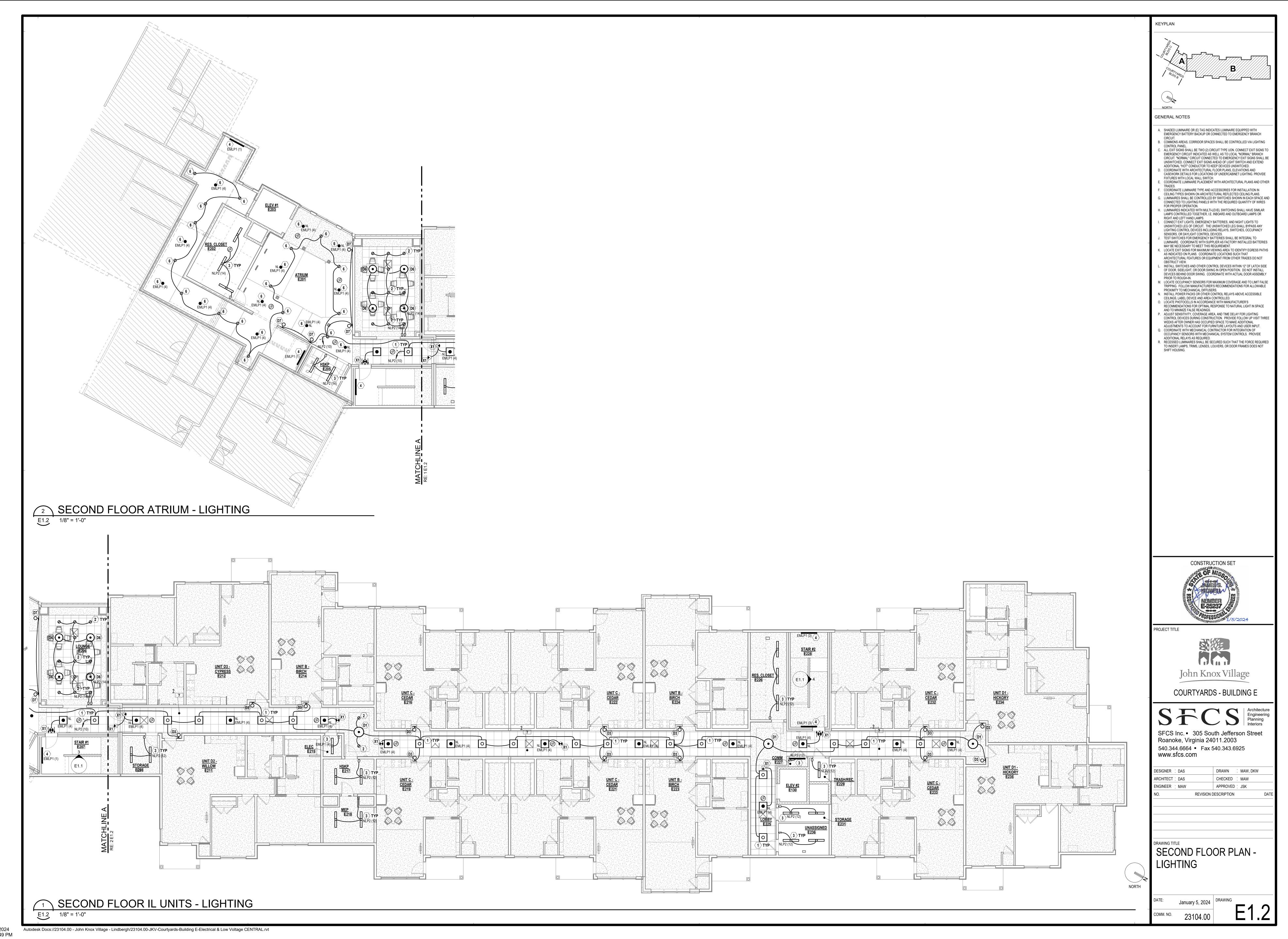
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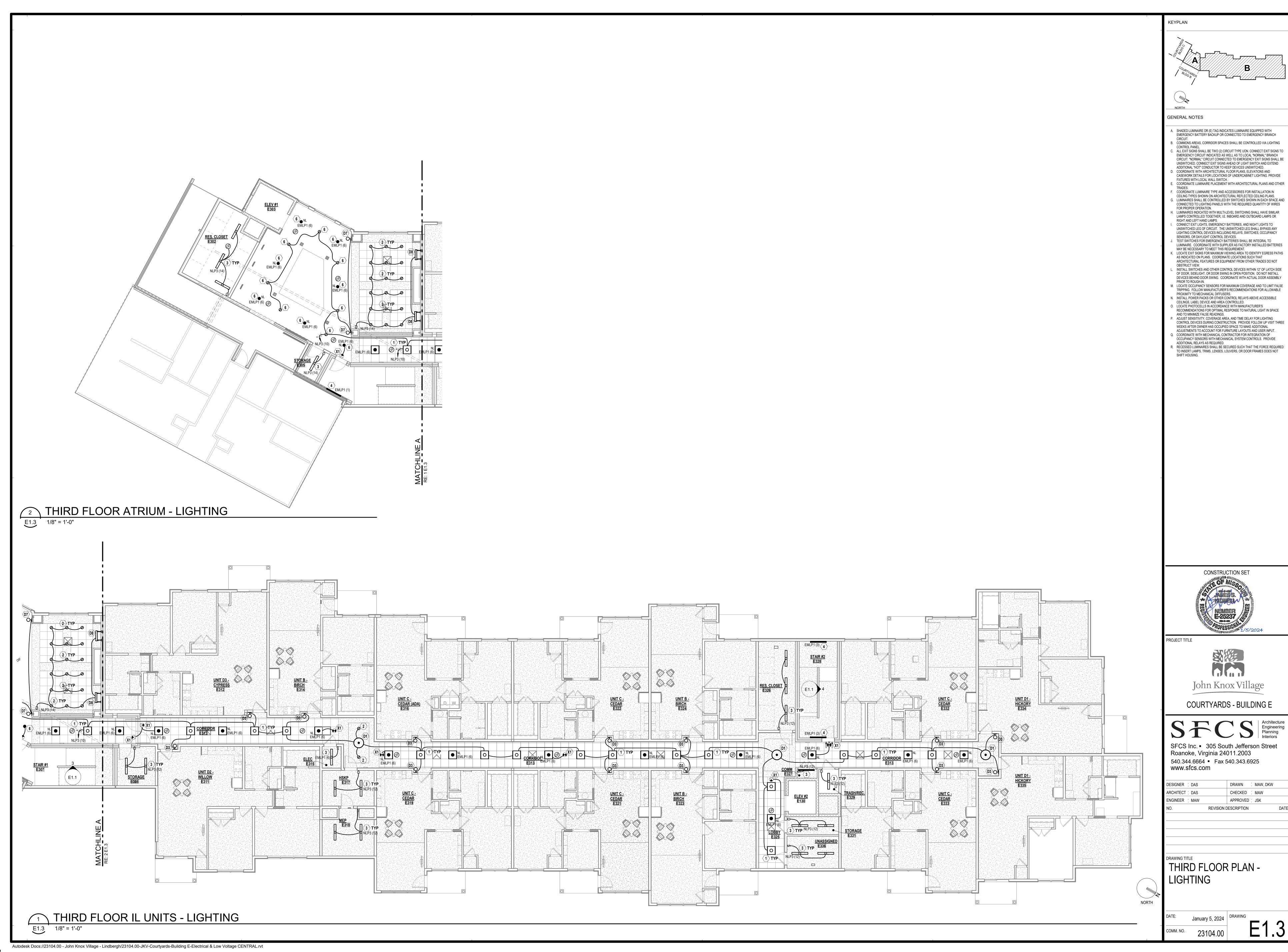
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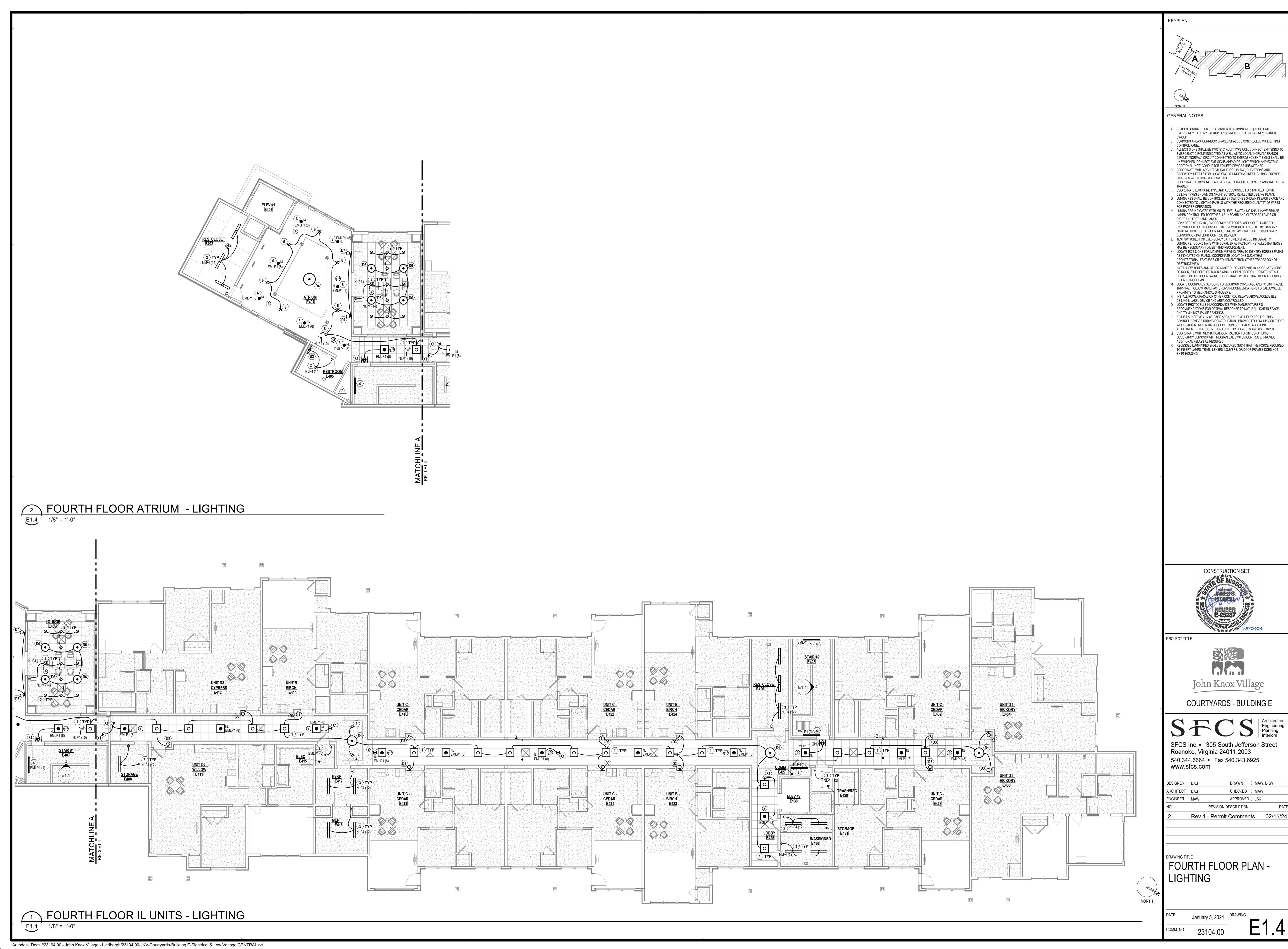
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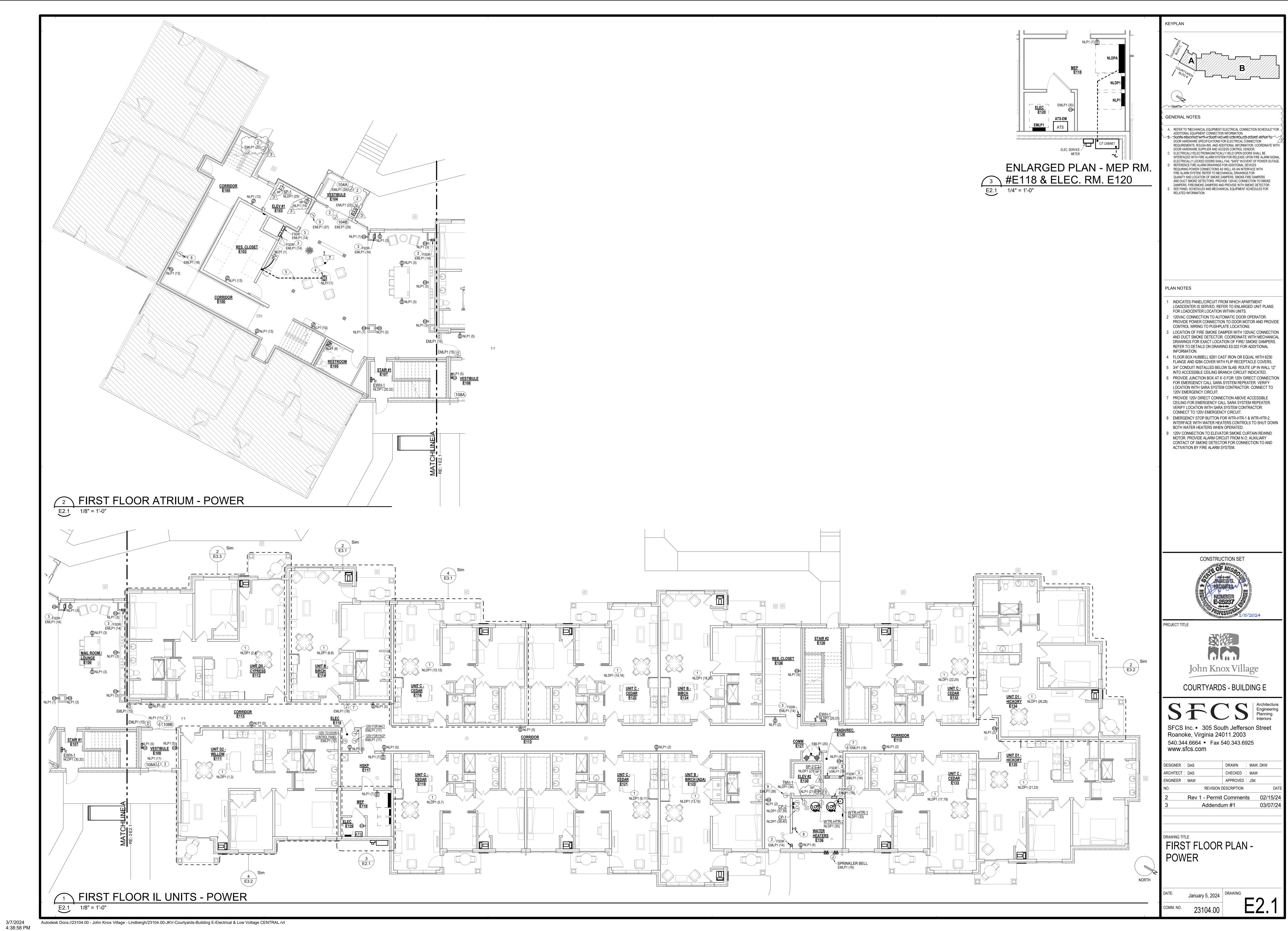


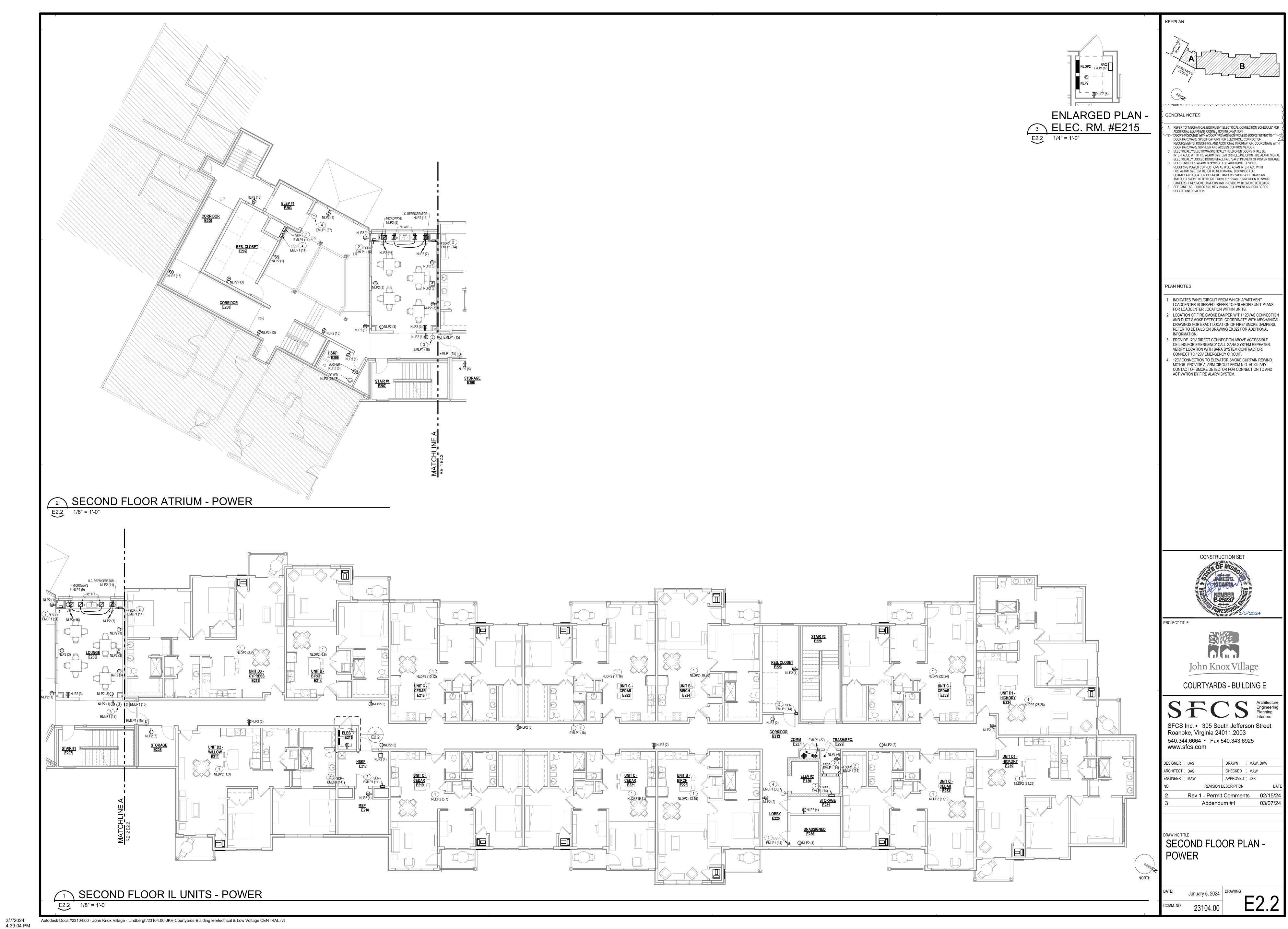
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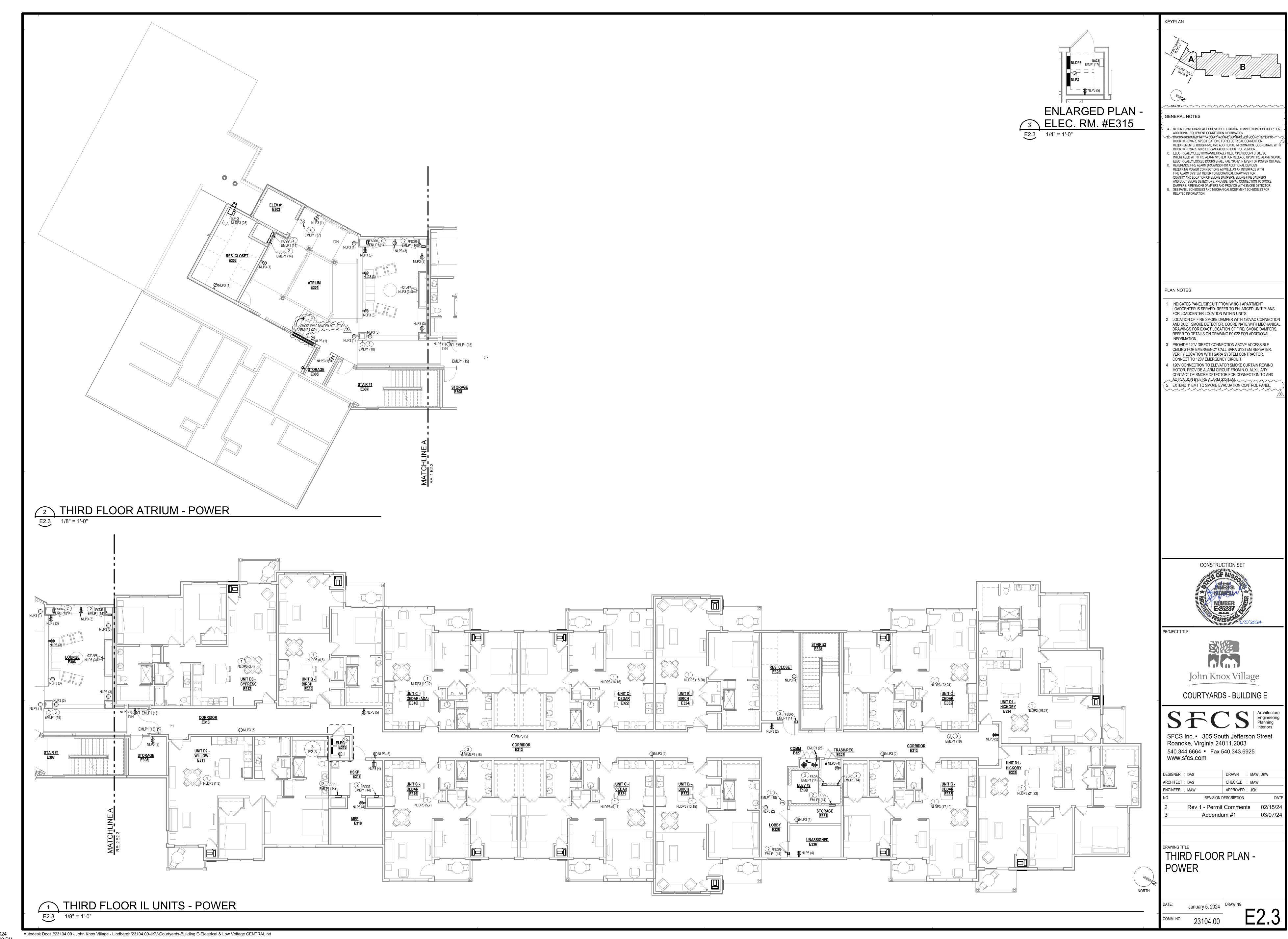


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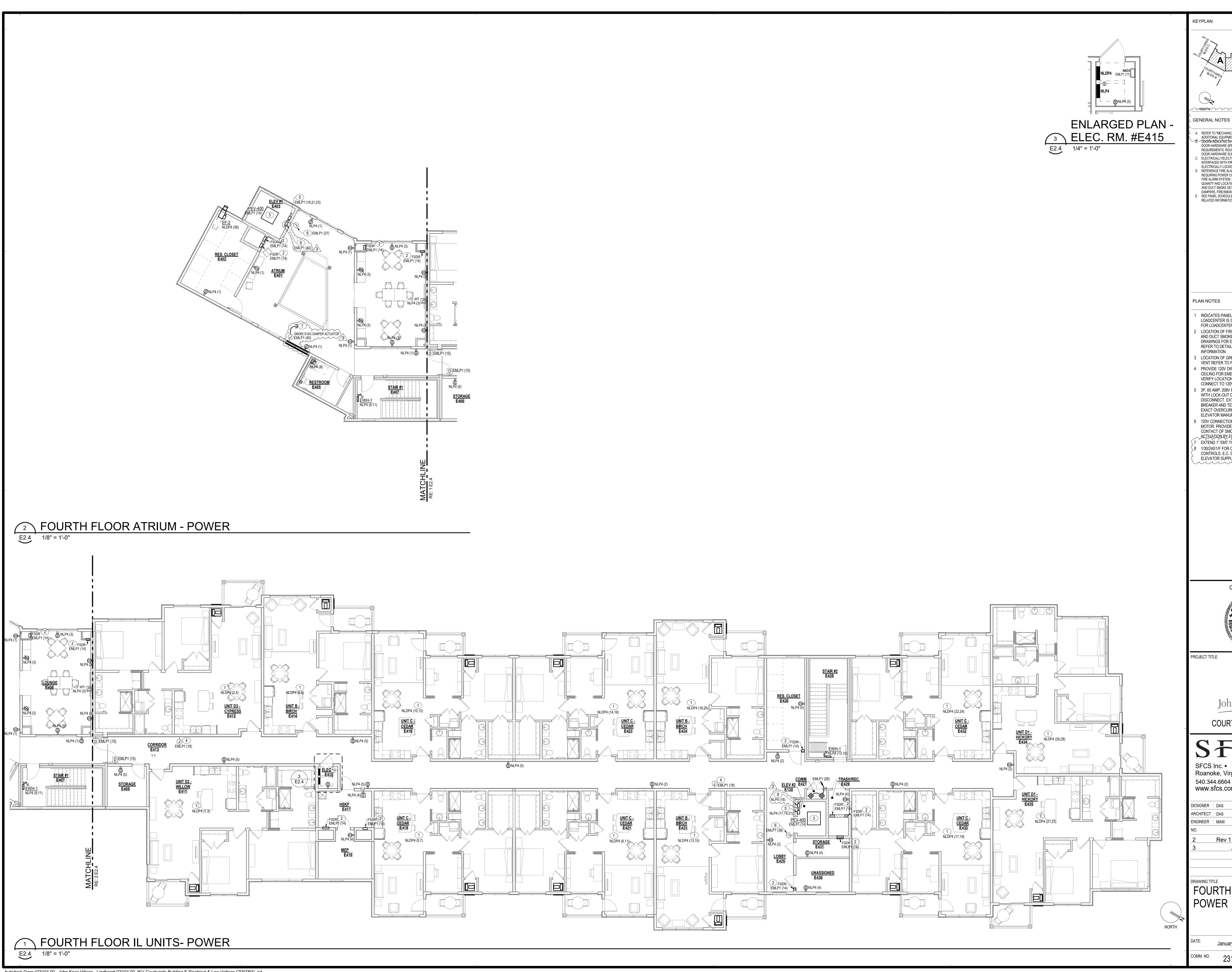
FOURTH FLOOR PLAN -







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A. REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR

GENERAL NOTES

ADDITIONAL EQUIPMENT CONNECTION INFORMATION.

**DOORS INDICATED WITH A DOOR TAG ARE CONTROLLED DOORS. REFER TO DOOR HARDWARE SPECIFICATIONS FOR ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR. . ELECTRICALLY/ELECTROMAGNETICALLY HELD OPEN DOORS SHALL BE INTERFACED WITH FIRE ALARM SYSTEM FOR RELEASE UPON FIRE ALARM SIGNAL ELECTRICALLY LOCKED DOORS SHALL FAIL "SAFE" IN EVENT OF POWER OUTAGE. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR. E. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

INDICATES PANEL/CIRCUIT FROM WHICH APARTMENT LOADCENTER IS SERVED. REFER TO ENLARGED UNIT PLANS FOR LOADCENTER LOCATION WITHIN UNITS. 2 LOCATION OF FIRE SMOKE DAMPER WITH 120VAC CONNECTION AND DUCT SMOKE DETECTOR. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF FIRE/ SMOKE DAMPERS. REFER TO DETAILS ON DRAWING E0.022 FOR ADDITIONAL 3 LOCATION OF GREENHECK PEV-400 PENTHOUSE ELEVATOR VENT REFER TO FOURTH FLOOR PLAN FIRE ALARM DRAWINGS. 4 PROVIDE 120V DIRECT CONNECTION ABOVE ACCESSIBLE CEILING FOR EMERGENCY CALL SARA SYSTEM REPEATER. VERIFY LOCATION WITH SARA SYSTEM CONTRACTOR. CONNECT TO 120V EMERGENCY CIRCUIT. WITH LOCK-OUT DEVICE FOR ELEVATOR CONTROLLER DISCONNECT. EXTEND FEEDER FROM LOAD SIDE OF CIRCUIT BREAKER AND TERMINATE ON ELEVATOR CONTROLLER. VERIFY EXACT OVERCURRENT PROTECTIVE DEVICE REQUIRED WITH ELEVATOR MANUFACTURER PRIOR TO ORDERING. 120V CONNECTION TO ELEVATOR SMOKE CURTAIN REWIND MOTOR. PROVIDE ALARM CIRCUIT FROM N.O. AUXILIARY CONTACT OF SMOKE DETECTOR FOR CONNECTION TO AND ACTIVATION BY FIRE ALARM SYSTEM. EXTEND 1" EMT TO SMOKE EVACUATION CONTROL PANEL. 8 1/30/240/1/F FOR CONNECTION TO ELEVATOR LIGHTS AND CONTROLS. E.C. SHALL VERIFY EXACT REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.

CONSTRUCTION SET



COURTYARDS - BUILDING E

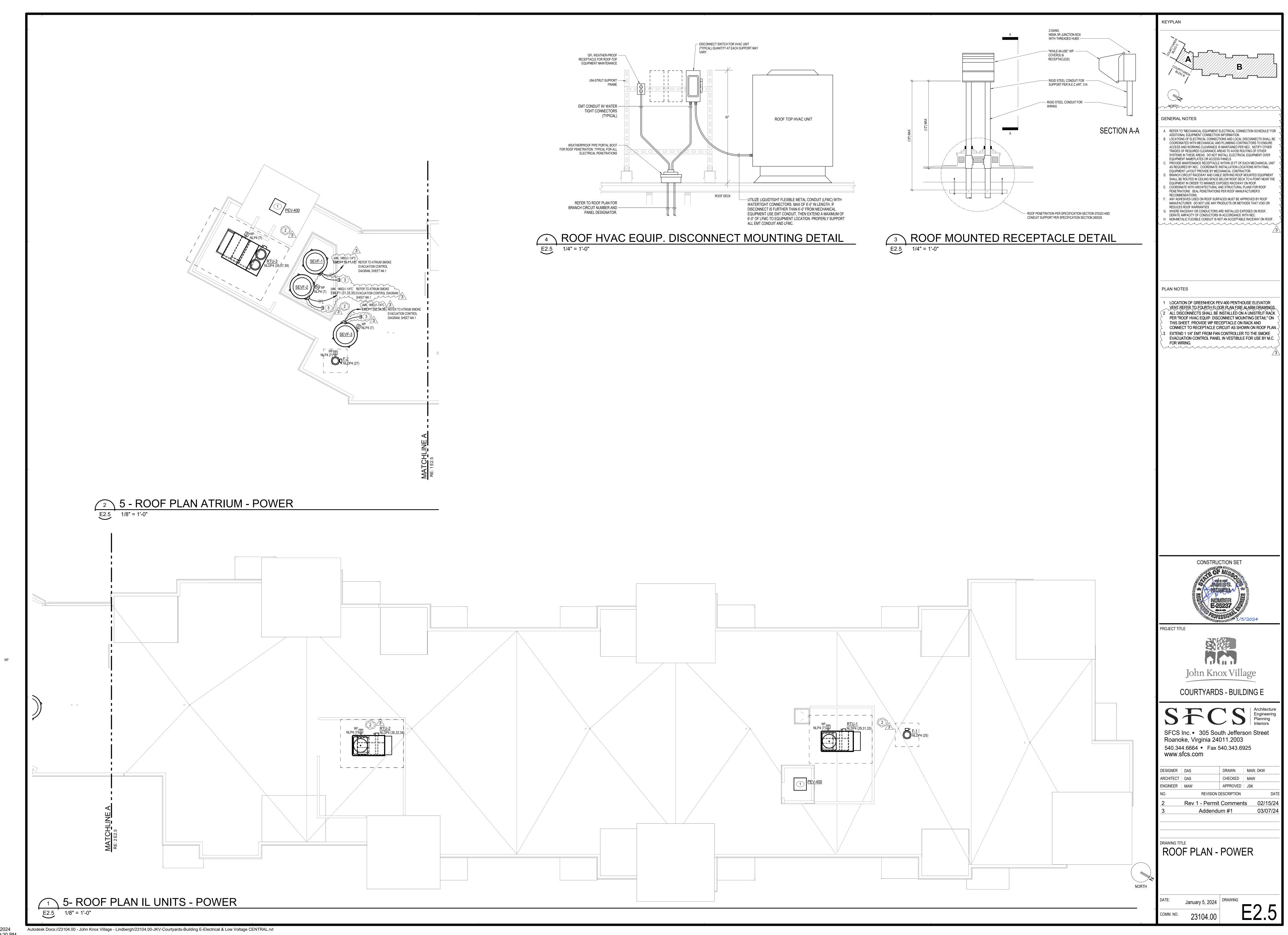
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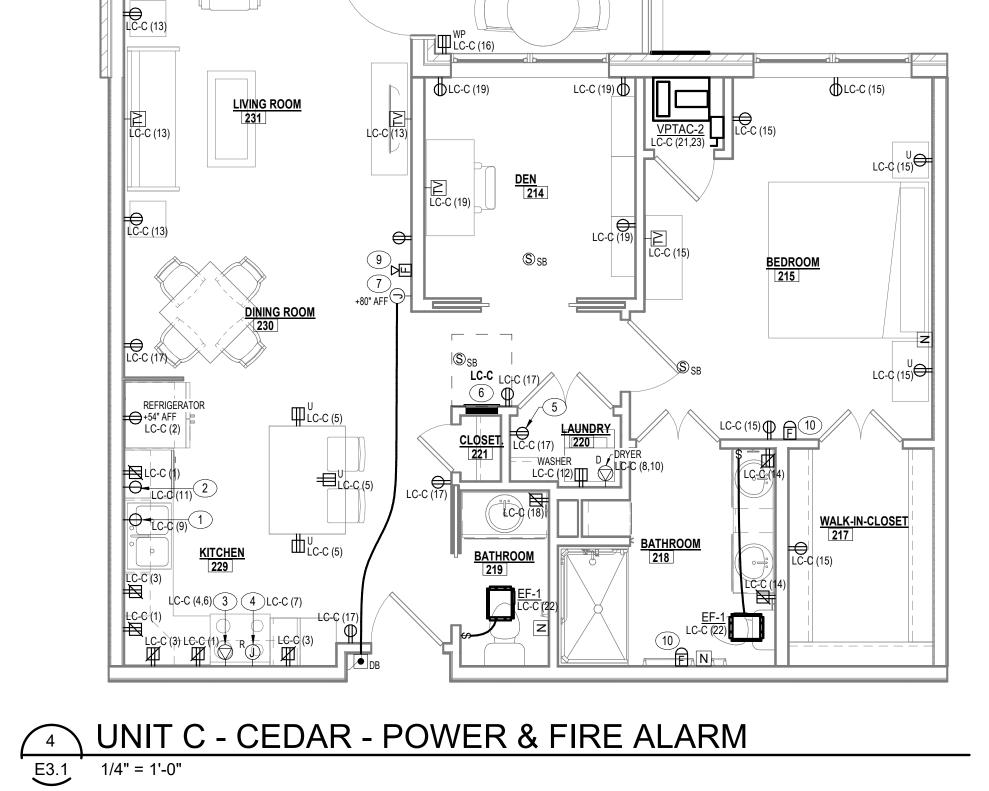
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FOURTH FLOOR PLAN -

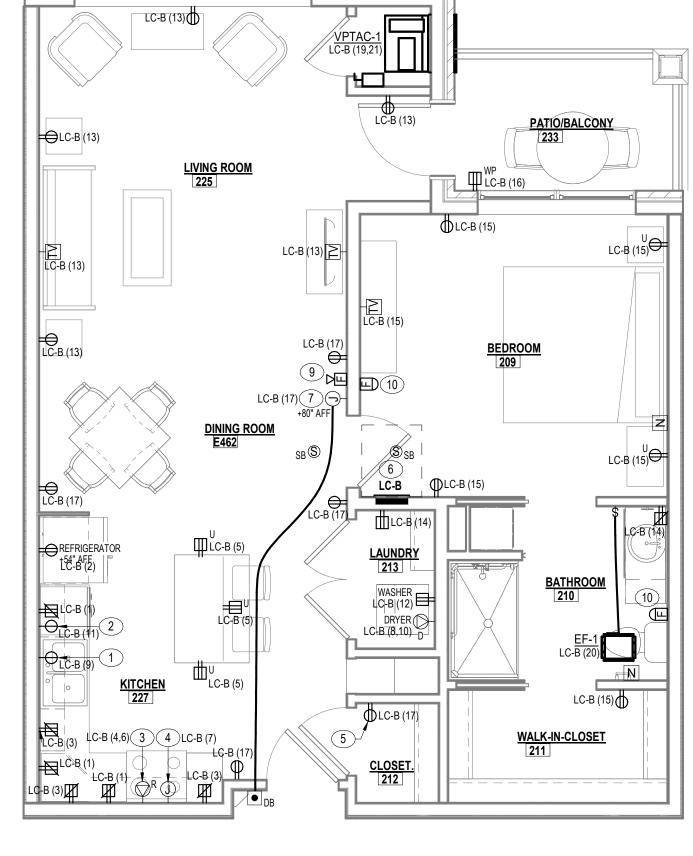
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UNIT B - BIRCH - POWER & FIRE ALARM



PLAN NOTES

GENERAL NOTES

A. PROVIDE FOAM GASKETS FOR ALL WIRING DEVICES (RECEPTACLES, SWITCHES, AN DIMMERS) INSTALLED ON THE INTERIOR OF AN EXTERIOR BUILDING WALL. FOAM GASKETS PROVIDE ADDITIONAL INSULATION BETWEEN THE BACK BOX, WIRING DEVICE(S), AND WALLPLATE(S).

B. REFER TO ARCHITECTURAL FIRE PROTECTION PLANS FOR LOCATIONS OF FIRE RATED WALLS. ALL RECESSED ELECTRICAL JUNCTION BOXES LOCATED IN FIRE OR ACOUSTICAL RATED WALLS SHALL BE SEPERATED AS REQUIRED BY THE LATEST ENCORPOR.

C. WALL BOXES FOR SWITCH BOXES OR RECEPTACLES IN WALL WITH POCKET DOORS SHALL BE INSTALLED SO WALL BOX OR WIRING TO WALL BOX DOES NOT CONFLICT WITH THE OPENING OF CLOSING OF THE POCKET DOOR.

D. ALL BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT DINING

ROOMS, LIVINGS, DENS, BEDROOMS, CLOSETS AND HALLWAYS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKE . BRANCH CIRCUIT WIRING WITHIN APARTMENTS IS TYPE MC CABLE WITH INSULATE COPPER CONDUCTORS AND AN INSULATED GROUNDING CONDUCTOR.

RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER-PROOF TYPE AS REQUIRED PER NEC ARTICLE 406.12 AND 210.52.
G. PLACEMENT OF RECEPTACLES WITHIN DWELLING UNITS SHALL BE IN ACCORDANCE.

H. LIVING UNIT LOADCENTER DOORS SHALL BE PAINTED TO MATCH INTERIOR WALL COLOR. I. RANGE HOODS SHALL BE SERVED FROM LOCAL BRANCH CIRCUIT.
J. REFER TO PANEL SCHEDULES FOR BRANCH CIRCUIT OF HVAC UNITS SERVING

APARTMENTS.

K. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL APPLIANCE ELECTRICAL CORDS NOT SUPPLIED BY THE MANUFACTURER.

L. MOUNT LOAD CENTER SO THAT TOP MOST BREAKER IS NO HIGHER THAN 44" AFF."

M. ROCKER (DECORA STYLE) SWITCHES AND RECEPTACLES.

N. DEVICE AND SWITCHPLATE COLOR: WHITE, UNLESS ON EMERGENCY POWER (RED, OR DENOTE WITH RED "EMERGENCY" LABEL SIM. TO LEGRAND TP8EW).

- 120V SIMPLEX RECEPTACLE FOR GARBAGE DISPOSAL. VERIFY LOCATION AND INSTALL PER DISPOSAL MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN.
- 2 120V SIMPLEX RECEPTACLE FOR UNDERCOUNTER DISHWASHER. VERIFY LOCATION AND INSTALL PER DISPOSAL MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN. 3 RECEPTACLE FOR ELECTRIC RANGE. VERIFY LOCATION AND NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO
- 4 JUNCTION BOX FOR 120V CONNECTION TO MICROWAVE. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO
- 5 RECEPTACLE FOR RESIDENTIAL COMMUNICATION SERVICE
- 6 MOUNT LOAD CENTER(S) 48" A.F.F. TO HIGHEST BREAKER
- 7 LOCATE DOOR CHIME 6" BELOW CEILING. PROVIDE NUTONE #LA11WH WIRED DOOR CHIME WITH NUTONE #C905
- 8 PROVIDE CEILING FAN RATED BACKBOX. PROVIDE 12-3 MC CABLE FROM CEILING FAN RATED BACKBOX TO LIGHT SWITCH FOR FUTURE WIRING OF CEILING FAN.
- 9 ADA ACCESSIBLE UNIT OPTION ONLY. FIRE ALARM AUDIO/ VISUAL DEVICE TO COMPLY WITH ADA REQUIREMENTS REFER
- TO DETAILS ON SHEET E6.6.

10 ADA ACCESSIBLE UNIT OPTION ONLY. FIRE ALARM VISUAL DEVICE IN BEDROOMS TO COMPLY WITH ADA REQUIREMENTS REFER TO DETAILS ON SHEET E6.6.

CONSTRUCTION SET

PROJECT TITLE



John Knox Village

COURTYARDS - BUILDING E

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DRAWING TITLE ENLARGED PLANS -ELECTRICAL

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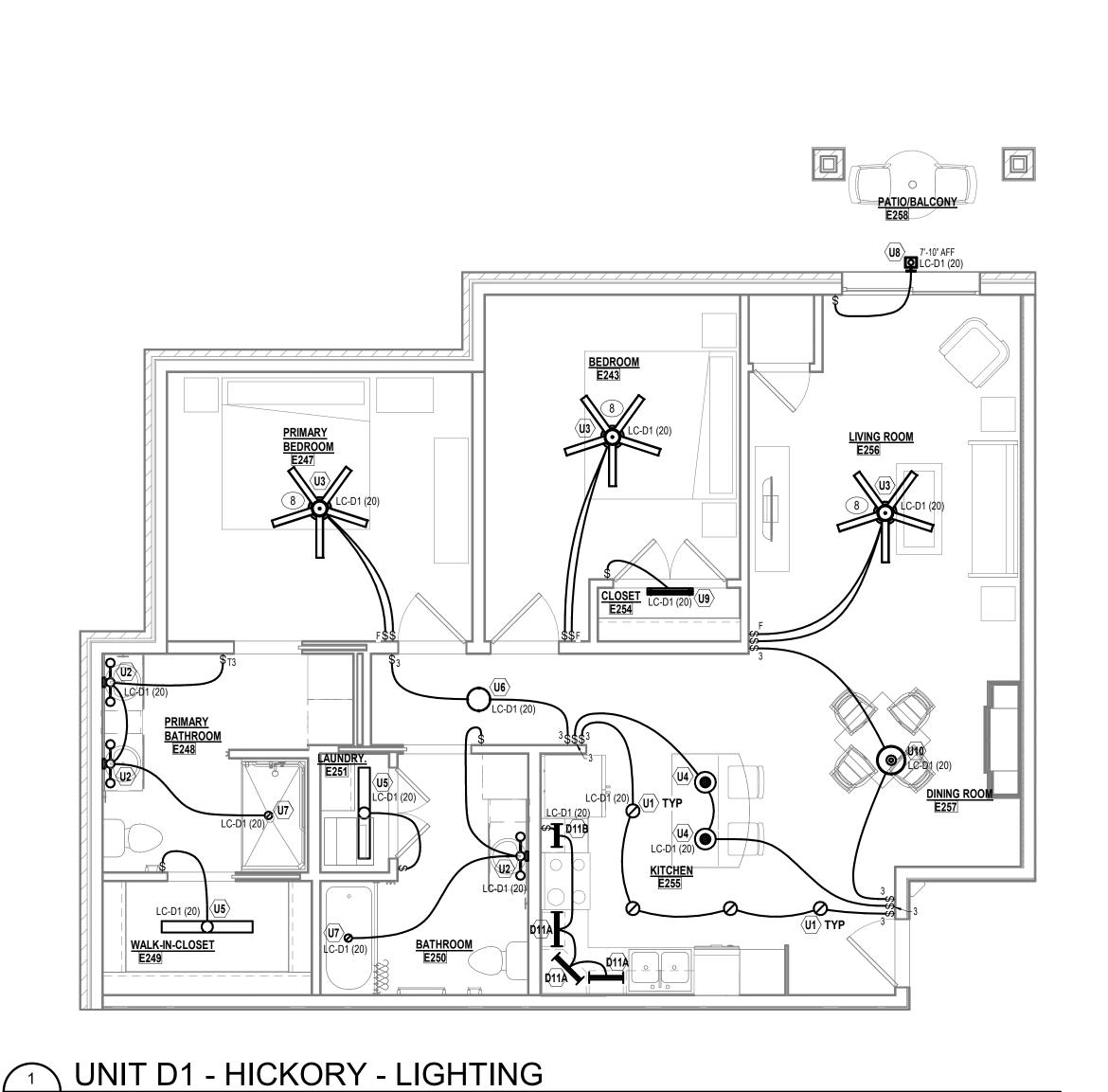
3 UNIT C - CEDAR - LIGHTING
E3.1 1/4" = 1'-0"

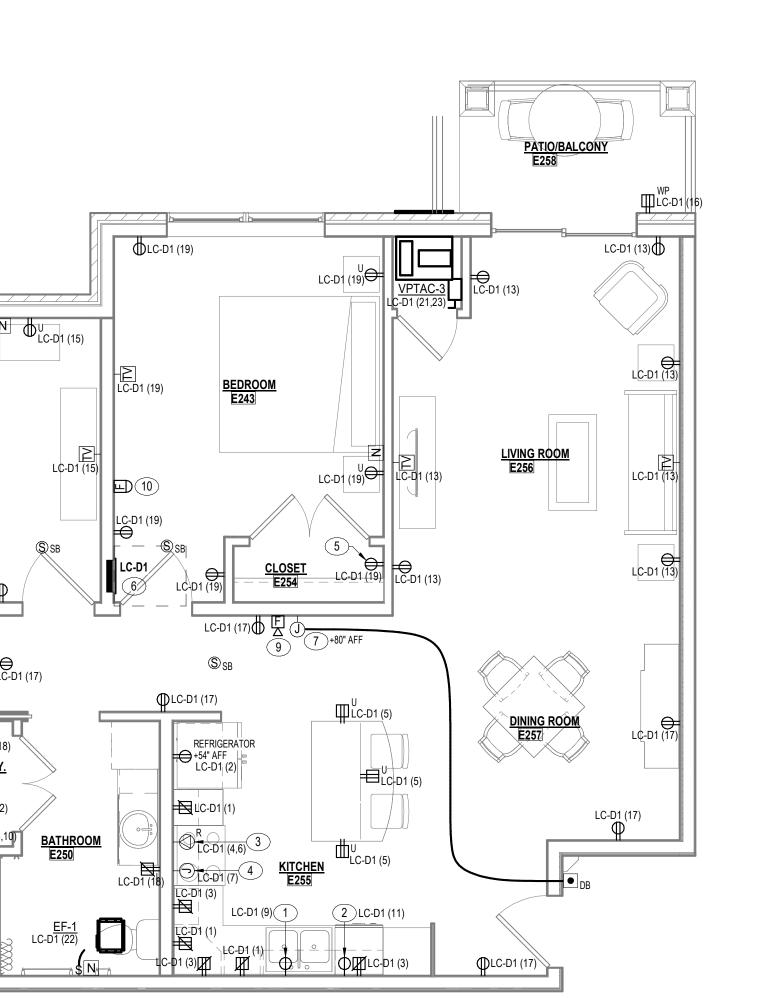
UNIT B - BIRCH - LIGHTING

E3.1 1/4" = 1'-0"



E3.2 1/4" = 1'-0"





K. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL APPLIANCE ELECTRICAL CORDS NOT SUPPLIED BY THE MANUFACTURER.

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3 RECEPTACLE FOR ELECTRIC RANGE. VERIFY LOCATION AND NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO

4 JUNCTION BOX FOR 120V CONNECTION TO MICROWAVE. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO

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CONSTRUCTION SET

TO DETAILS ON SHEET E6.6.

PROJECT TITLE

REQUIREMENTS PRIOR TO ROUGH-IN.

WITH NEC ARTICLE 210.
H. LIVING UNIT LOADCENTER DOORS SHALL BE PAINTED TO MATCH INTERIOR WALL COLOR.

I. RANGE HOODS SHALL BE SERVED FROM LOCAL BRANCH CIRCUIT.

J. REFER TO PANEL SCHEDULES FOR BRANCH CIRCUIT OF HVAC UNITS SERVING

A. PROVIDE FOAM GASKETS FOR ALL WIRING DEVICES (RECEPTACLES, SWITCHES, AND

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D. ALL BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT DINING

ROOMS, LIVINGS, DENS, BEDROOMS, CLOSETS AND HALLWAYS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER

E. BRANCH CIRCUIT WIRING WITHIN APARTMENTS IS TYPE MC CABLE WITH INSULATED

COPPER CONDUCTORS AND AN INSULATED GROUNDING CONDUCTOR.

F. RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER-PROOF TYPE AS REQUIRED PER NEC ARTICLE 406.12 AND 210.52.

G. PLACEMENT OF RECEPTACLES WITHIN DWELLING UNITS SHALL BE IN ACCORDANCE

(GENERAL NOTES

PLAN NOTES

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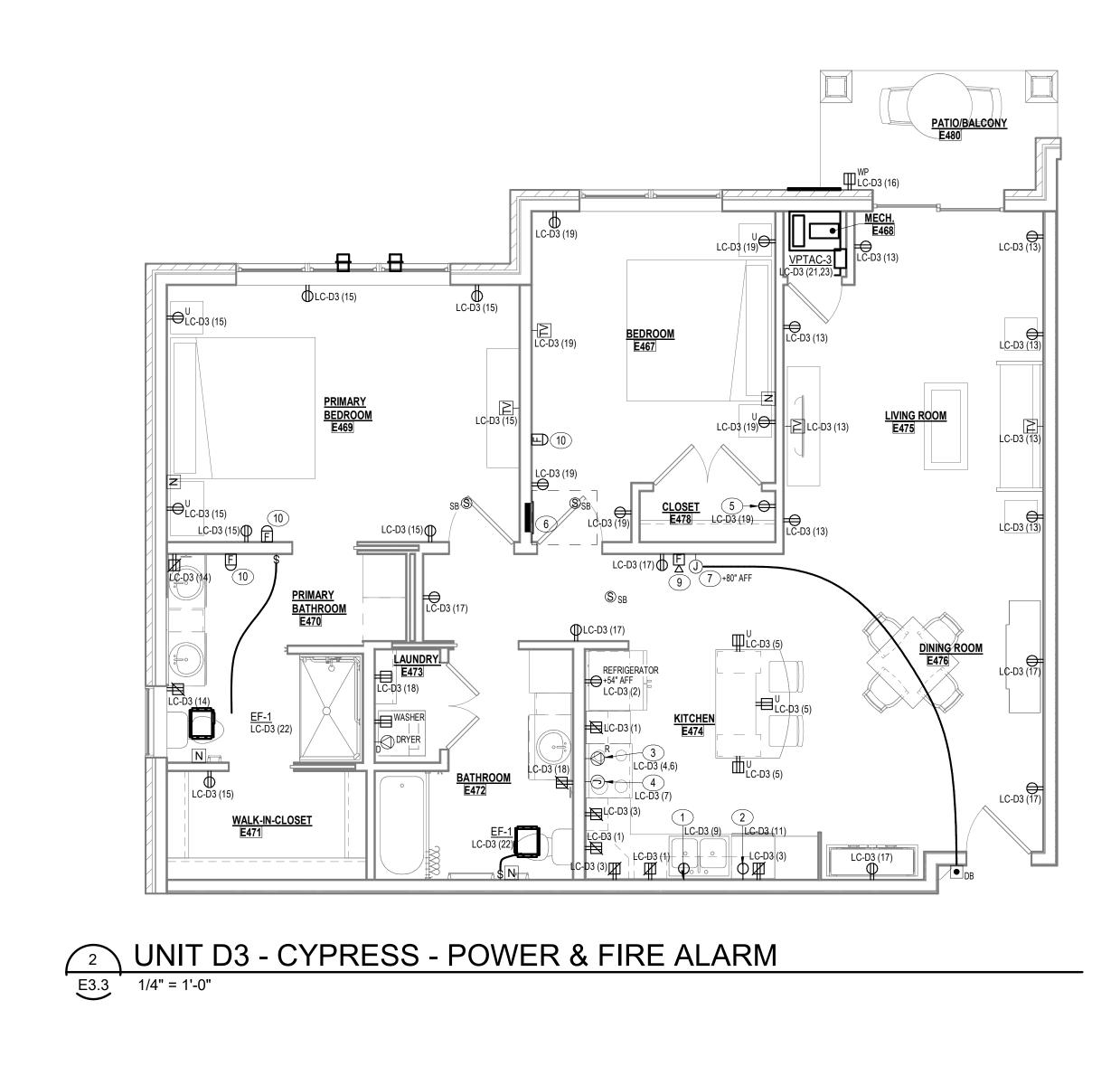
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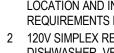
DRAWING TITLE ENLARGED PLANS -ELECTRICAL

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3 UNIT D2 - WILLOW - LIGHTING E3.2 1/4" = 1'-0"





PLAN NOTES

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WITH NEC ARTICLE 210.

H. LIVING UNIT LOADCENTER DOORS SHALL BE PAINTED TO MATCH INTERIOR WALL

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I. RANGE HOODS SHALL BE SERVED FROM LOCAL BRANCH CIRCUIT.

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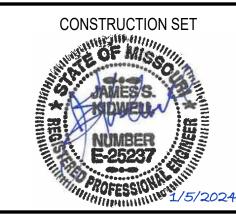
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PROJECT TITLE



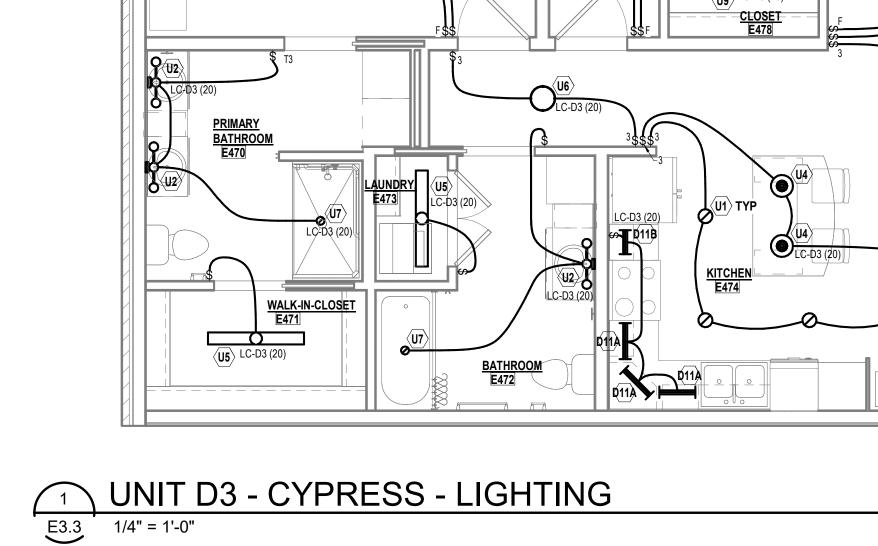
John Knox Village

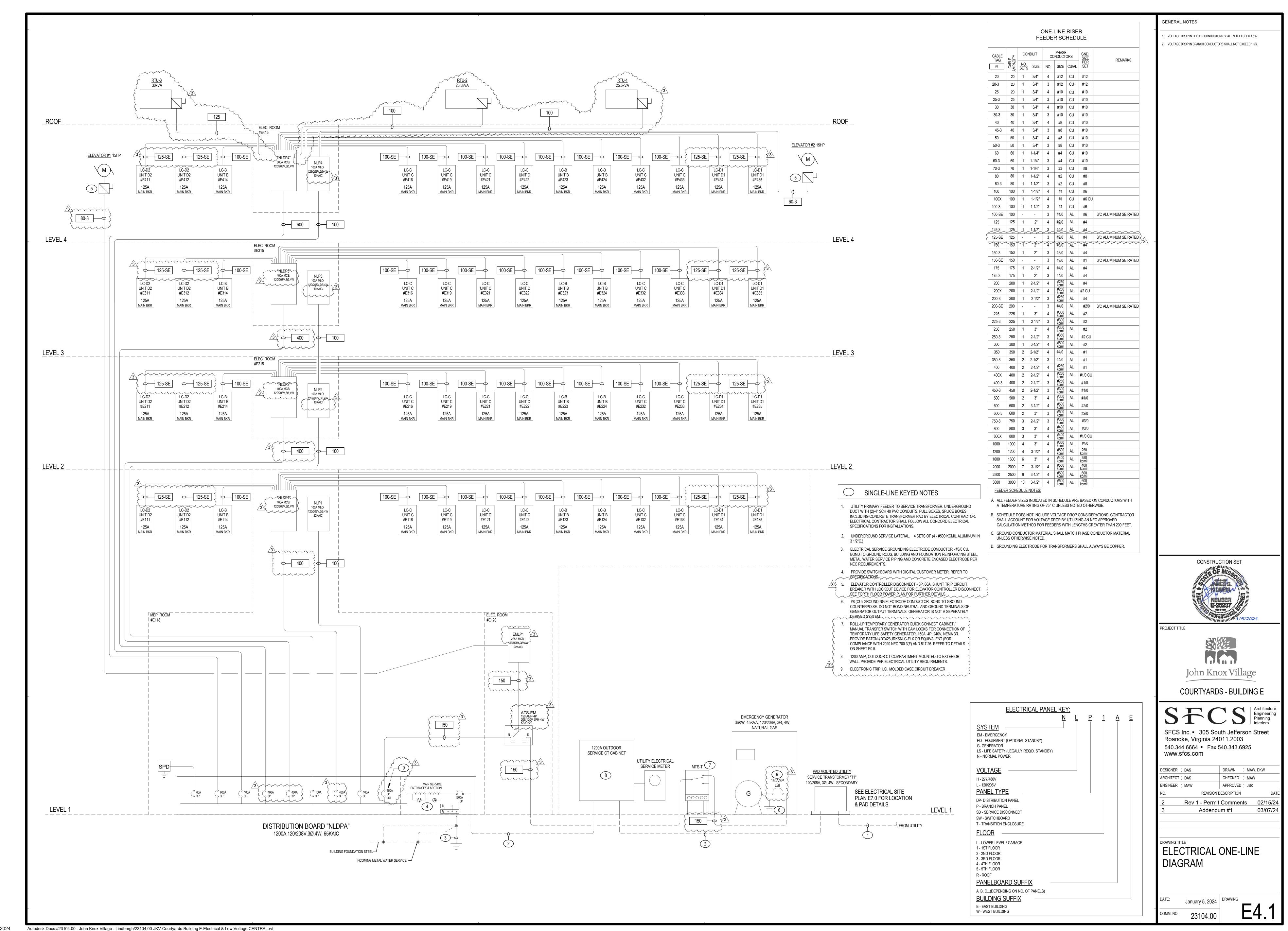
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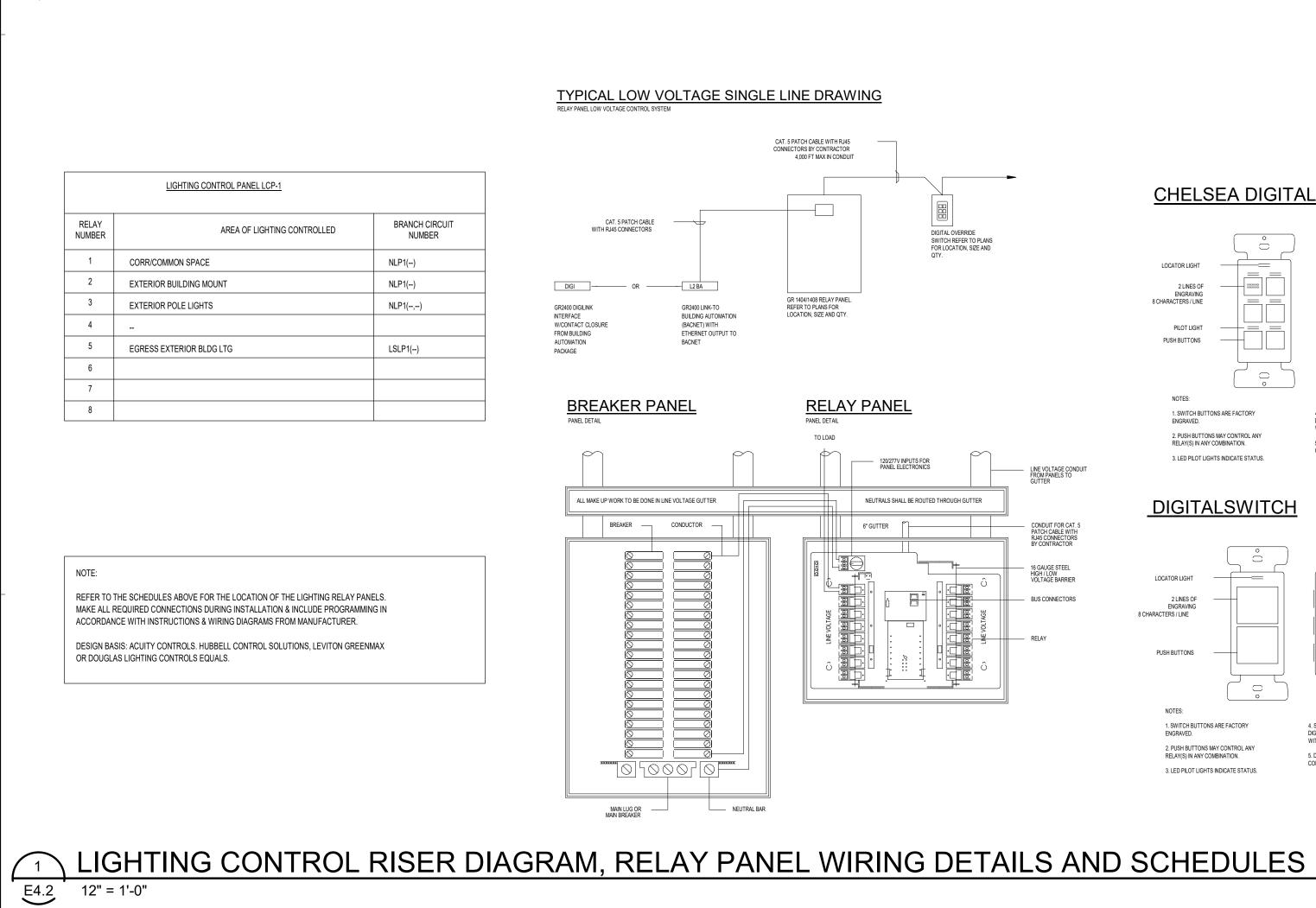
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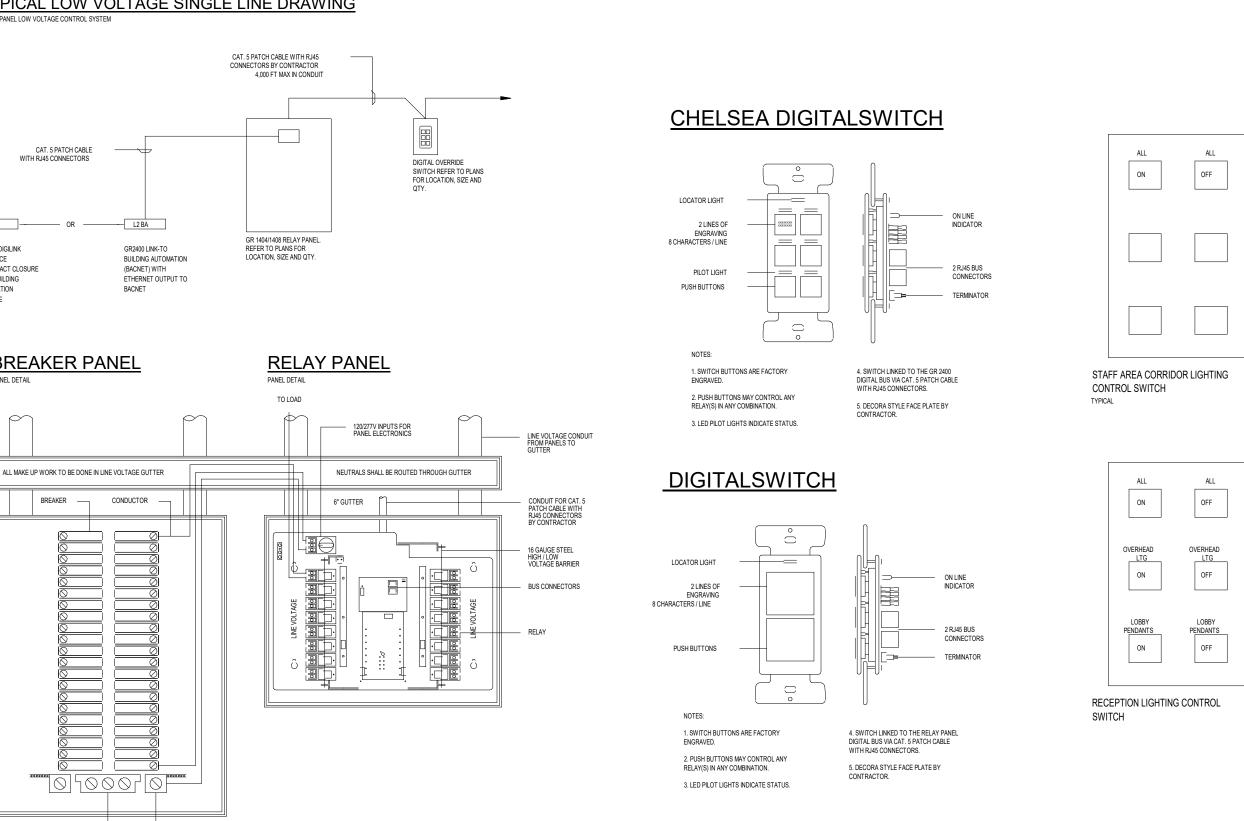
ENLARGED PLANS ELECTRICAL

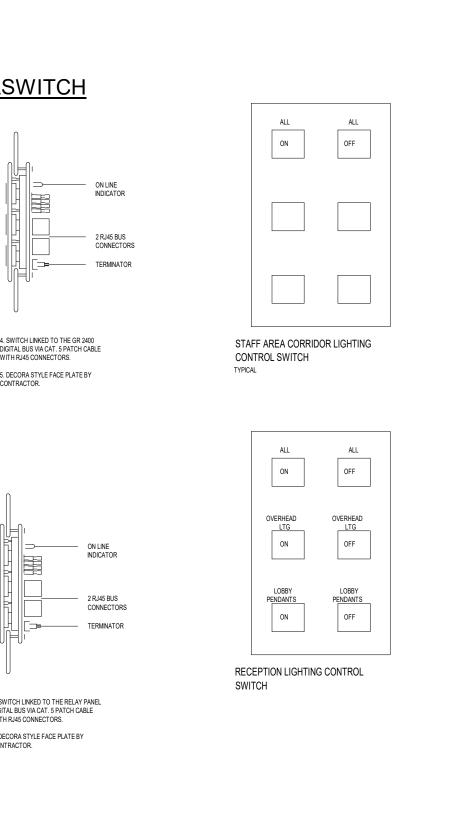


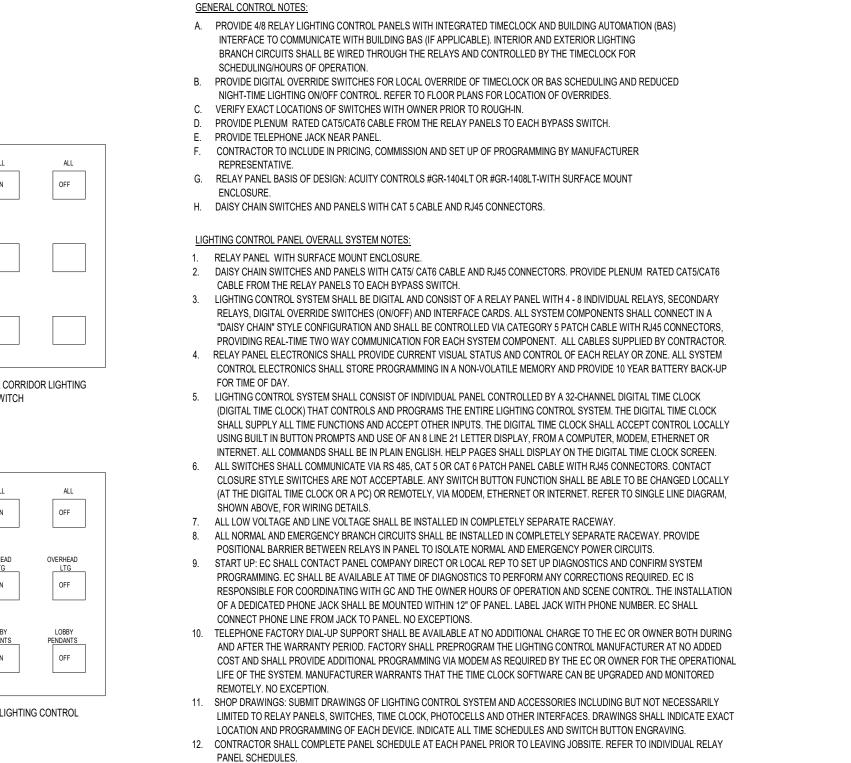


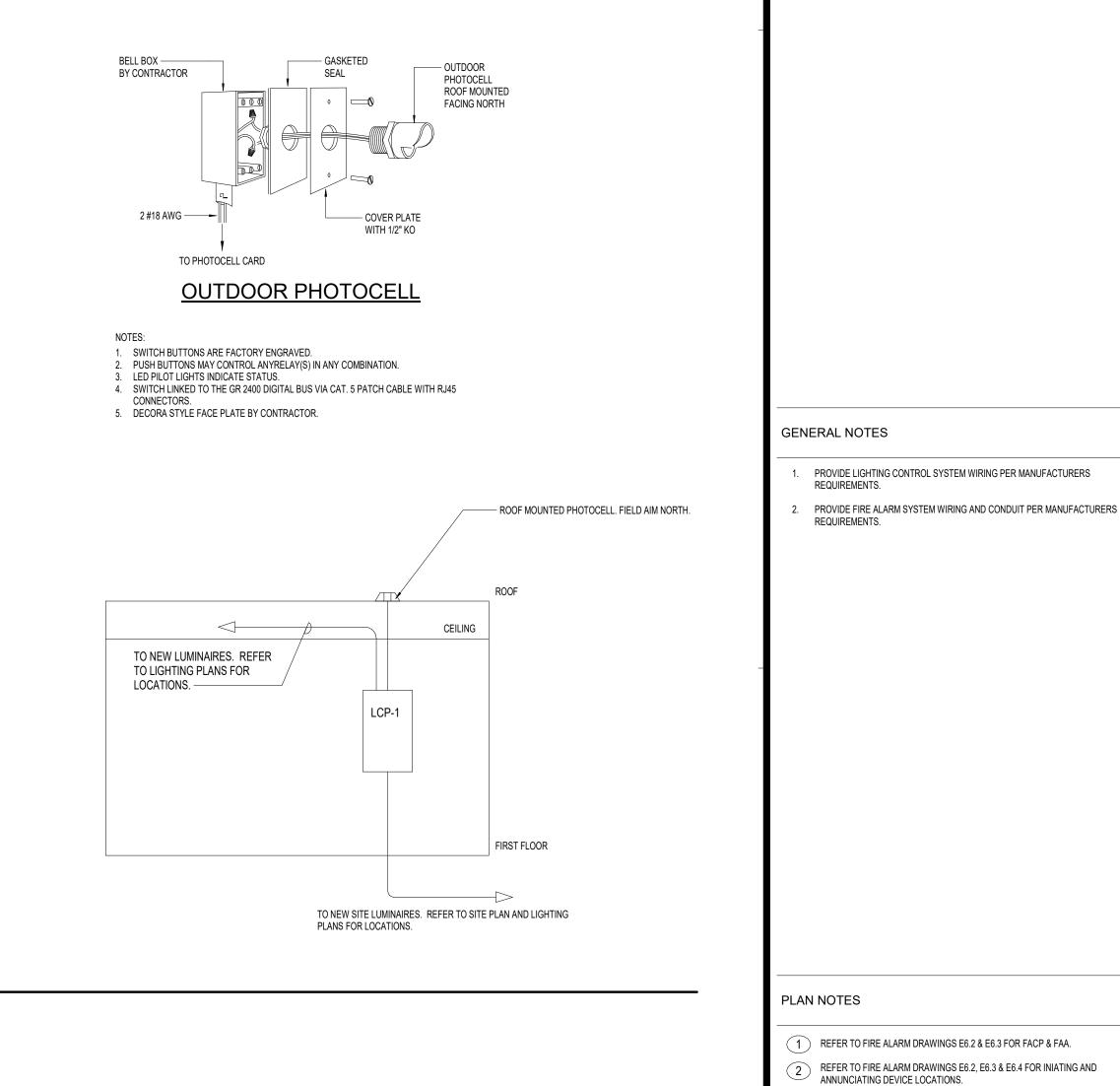
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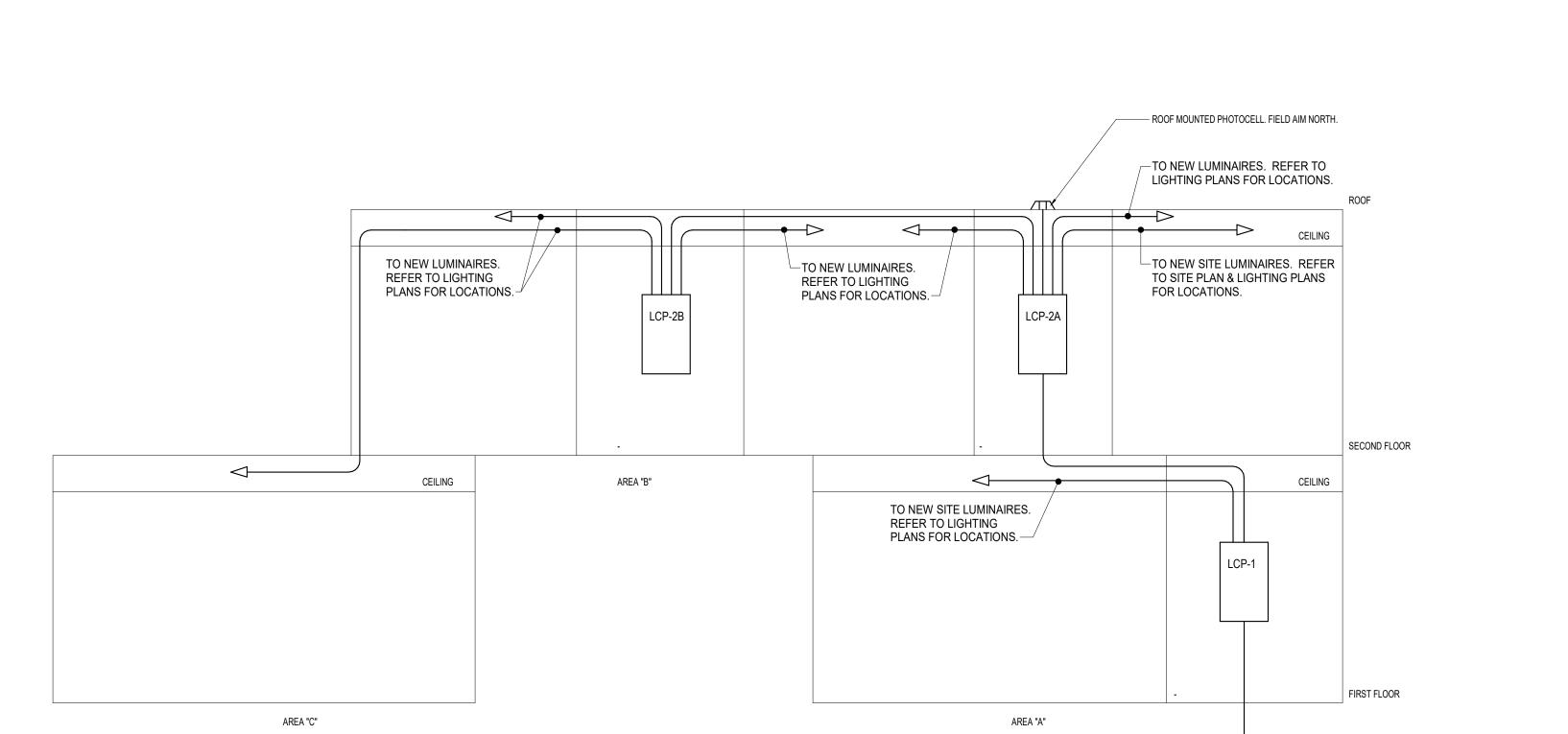














3 PROVIDE PERMANENT LABEL AFFIXED TO PANEL INDICATING CIRCUIT # AND

4 EXTEND TO ELEVATOR CONTROLLER FOR FIREMAN RECALL. TYPICAL FOR ALL ELEVATOR LOBBY SMOKE DETECTORS.



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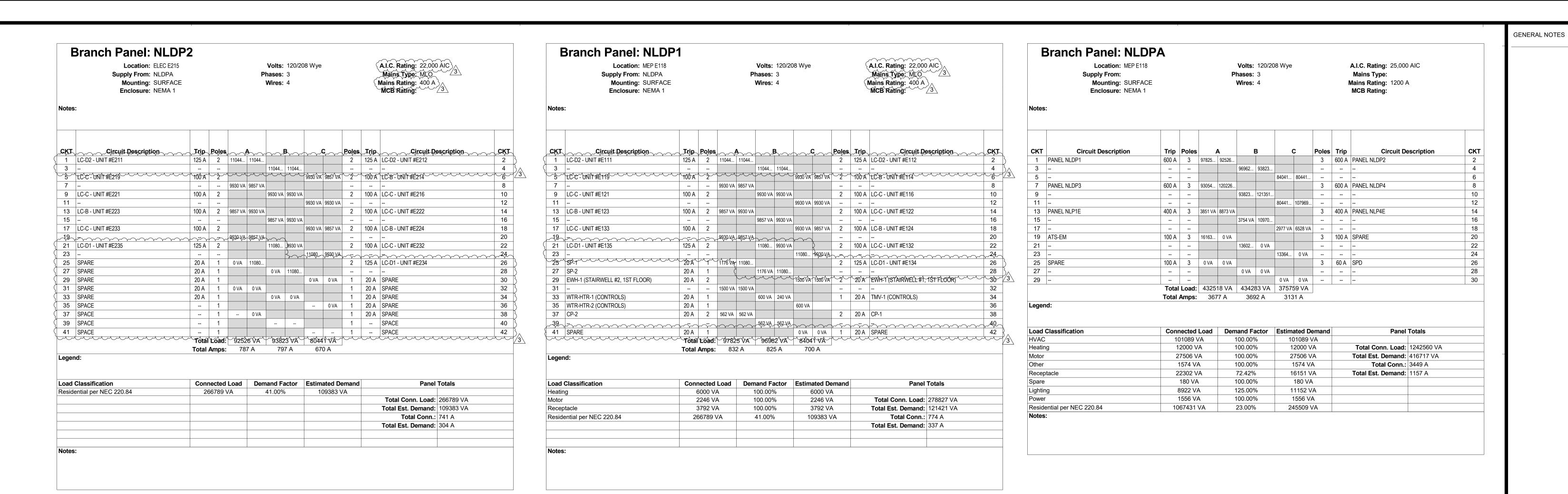
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LIGHTING CONTROL DIAGRAMS

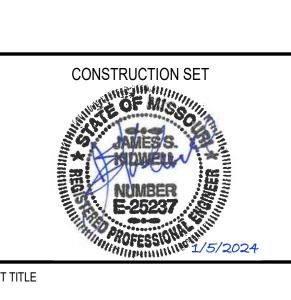
TO NEW SITE LUMINAIRES. REFER TO SITE PLAN AND LIGHTING PLANS FOR LOCATIONS.





Lighting

Residential per NEC 220.84



PROJECT TITLE

Total Conn.: 120 A

3491 VA

500 VA

275 VA

125.00%

100.00%

42.00%

4364 VA

500 VA

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DRAWN : MAW, DKW ARCHITECT : DAS CHECKED : MAW APPROVED : JSK REVISION DESCRIPTION Rev 1 - Permit Comments Addendum #1

PANELBOARD

SCHEDULES

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Branch Panel: NLDP4

9 LC-C - UNIT #E421

13 LC-B - UNIT #E423

17 LC-C - UNIT #E433

Load Classification

Residential per NEC 220.84

Location: ELEC E415

Mounting: SURFACE

Enclosure: NEMA 1

Supply From: NLDPA

(A.I.C. Rating: 22,000 AIC)

Panel Totals

Total Conn. Load: 349545 VA

Total Est. Demand: 192139 VA

Total Conn.: 970 A

Total Est. Demand: 533 A

Mains Rating: 600 A

MCB Rating:

Volts: 120/208 Wye

| 125 A | 2 | 11044... | 11044... | 2 | 125 A | LC-D2 - UNIT #E412 | -- | -- | -- | -- | -- | -- | -- |

-5 LC-C-UNIT-#E419 100 A 2 100 A 2 9857 VA 2 100 A LC-B-UNIT-#E414 (3)

Total Amps: 1018 A 1027 A 900 A

82228 VA

528 VA

266789 VA

Connected Load Demand Factor Estimated Demand

82228 VA

528 VA

109383 VA

100.00%

100.00%

41.00%

Phases: 3

Wires: 4

Branch Panel: NLP4 Location: ELEC E415 Volts: 120/208 Wye **A.I.C. Rating:** 10,000 AIC Mains Type: MLO Supply From: NLDPA Phases: 3 **Mounting:** SURFACE Wires: 4 Mains Rating: 100 A MCB Rating: Enclosure: NEMA 1 C Poles Trip **Circuit Description Circuit Description Total Amps:** 77 A 94 A 54 A **Load Classification** Demand Factor Estimated Demand Panel Totals Connected Load 6000 VA 100.00% 6000 VA Motor Total Conn. Load: 26371 VA 10080 VA 100.00% 10080 VA 1521 VA 100.00% 1521 VA Total Est. Demand: 26853 VA Total Conn.: 73 A 6840 VA 100.00% 6840 VA Receptacle 125.00% Total Est. Demand: 75 A 1930 VA 2412 VA

	Location: ELEC E215 Supply From: Mounting: SURFACE Enclosure: NEMA 1					Volts: hases: Wires:	3	08 Wye			(A.I.C. Rating: 10,000 AIC Mains Type: MLO Mains Rating: 100 A MCB Rating:	
Notes	:												
СКТ	Circuit Description	Trip	Poles	,	A	E	3	(C	Poles	Trip	Circuit Description	СКТ
1	RCPT'S - ATRIUM #E201	20 A	1	1080 VA	900 VA					1	20 A	RCPT'S - CORRIDOR #E213	2
3	RCPT'S - LOUNGE #E206	20 A	1			1080 VA	1080 VA			1		RCPT'S - RM. #E217, E218, E226, E229, E231,	4
5	RCPT'S - CORRIDOR #E213 & ELEC #E215	20 A	1					1080 VA	0 VA	1		SPARE	6
7	GFI RCPT'S - LOUNGE #E206	20 A	1	360 VA	850 VA					1	20 A	CLOTHES WASHER - HSKP #E205	8
9	UC MICROWAVE - LOUNGE #E206	20 A	1			1200 VA	927 VA			1	20 A	LTG 2ND FLOOR CORRIDOR & ATRIUM	10
11	UC REFRIGERATOR - LOUNGE #E206	20 A	1					600 VA	588 VA	1	20 A	LTG RM. #E217, E218, E226, E229, E231, E236	12
13	RCPT'S - CORRIDOR #E200	20 A	1	900 VA	624 VA					1	20 A	LTG LOUNGE #E206 & RES. CLOSET #E202	14
15	GFI RCPT'S - LOUNGE #E206	20 A	1	$\sim\sim$	~~	360 VA	2500 VA	~~~		2	20 A	CLOTHES DRYER - HSKP #E205	16
17	SPARE	20 A	1				,	0 VA	2500 VA	~~~	~~~		18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	Space		1				0 VA			1	20 A	SPARE	28
29	Space		1							1		Space	30
31	Space		1							1		Space	32
33	Space		1							1		Space	34
35	Space		1							1		Space	36
37	Space	-	1		3004 VA					3	100 A	PANEL NLP3	38
39	Space	-	1				3629 VA				-		40
41	Space	-	1						1488 VA		1		42
سسر		Total	Load:	77718	3VA~	1077	5 4A	6256	ZAY_				
		Total	Amps:	66	6 A	92	: A	52	2 A				

Demand Factor Estimated Demand

74.26%

125.00%

0 VA

15305 VA

5174 VA

0 VA

20610 VA

4139 VA

Panel Totals

Total Conn. Load: 24749 VA

Total Conn.: 69 A

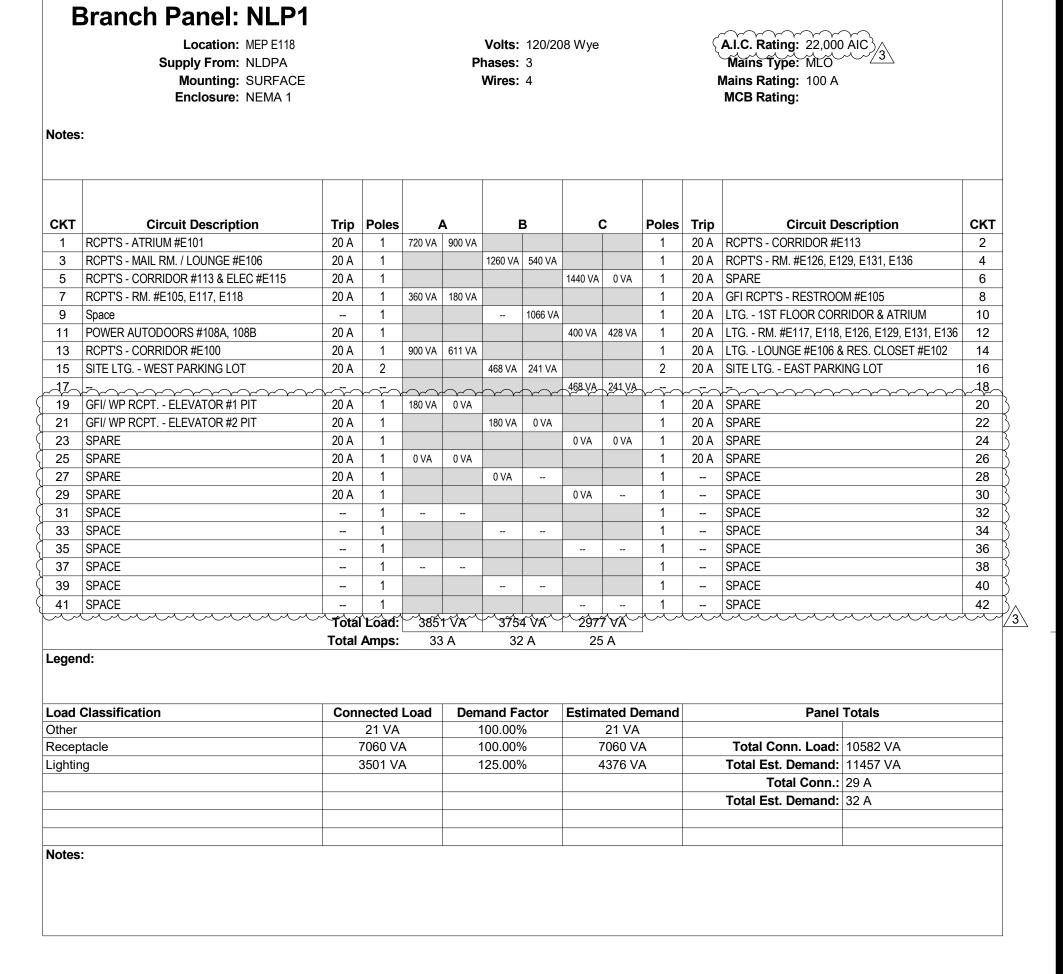
Total Est. Demand: 57 A

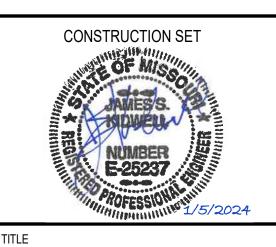
Total Est. Demand: 20479 VA

Load Classification

Receptacle

	Location: ELEC E315 Supply From: NLP2 Mounting: SURFACE Enclosure: NEMA 1				P	Volts: hases: Wires:		08 Wye			(Al.C. Rating: 10,000 Mains Type: MLO Mains Rating: 100 A MCB Rating:	}	
Notes	: :													
СКТ	Circuit Description	Trip	Poles		A	I	3		C	Poles	Trip	Circuit D	escription	СК
1	RCPT'S - ATRIUM #E301	20 A	1	1440 VA	900 VA					1	20 A	RCPT'S - CORRIDOR #E	E313	2
3	RCPT'S - LOUNGE #E306	20 A	1			1800 VA	1080 VA			1	20 A	RCPT'S - RM. #E317, E3	318, E326, E329, E331,	4
<u></u>	RCPT'S - CORRIDOR #E313 & ELEC #E315	20 A	1	\sim	~~	~~	~~	900 VA	0 VA	1	20 A	SPARE		6
7	SPARE	20 A	1	0 VA	0 VA				}	1		SPARE		8
9	SPARE	20 A	1			0 VA	749 VA		}	1		LTG 3RD FLOOR COP		10
11	SPARE	20 A	1					0 VA	₹588 VA	1			, E326, E329, E331, E336	
13	SPARE	20 A	1	0 VA	664 VA				2	\sim 1 \sim	<u> </u>	LTGLOUNGE#E306.8	RES CLOSET#E302	~ 44
15	SPARE	20 A	1			0 VA	0 VA			1		SPARE		16
17	SPACE		1						0 VA	1		SPARE		18
19	SPACE		1		0 VA					1		SPARE		20
21	SPACE	-	1				0 VA			1		SPARE		22
23	SPACE	-	1						0 VA	1	20 A	SPARE		24
25	SPACE	-	1							1		SPACE		26
27	SPACE	-	1							1		SPACE		28
29	SPACE		1							1		SPACE		30
31	SPACE		1							1		SPACE		32
33	SPACE		1							1		SPACE		34
35	SPACE	-	1							1		SPACE		36
37	SPACE	-	1							1		SPACE		38
39	SPACE		1							1		SPACE		40
41	SPACE		1							1	-	SPACE		42
			Load:		4 VA~		g VA		8,AY_					
		Total	Amps:	27	7 A	32	2 A	12	2 A					
Legei	nd:													
Load	Classification	Con	nected	Load	Dem	nand Fa	actor	Estim	ated Do	emand		Panel	Totals	
Other			0 VA			0.00%			0 VA					
Rece		(6120 V	A		100.00%		(6120 V	4		Total Conn. Load:	8121 VA	
Lightii			2001 V	A	1	125.00%	6	:	2501 V	4		Total Est. Demand:		
												Total Conn.:	23 A	
												Total Est. Demand:		





PROJECT TITLE

GENERAL NOTES



COURTYARDS - BUILDING E

SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003

540.344.6664 • www.sfcs.com	Fax 540.343.6925
DESIGNER : DAS	DRAWN : MAW, DKW
ARCHITECT : DAS	CHECKED : MAW
ENGINEER : MAW	APPROVED : JSK
NO. RE	EVISION DESCRIPTION

ARCHITECT : DAS		CHECKED :	MAW
ENGINEER : MAW		APPROVED :	JSK
NO.	REVISION [DESCRIPTION	
1	FDP	1	(
_3	Addendu	ım #1	(

PANELBOARD SCHEDULES

DATE: January 5, 2024

E5.2

3/7/2024 Autodesk E 4:39:23 PM o. 23104.00

tes:	Location: DINING ROOM 230 Supply From: Mounting: FLUSH Enclosure: NEMA 1)			Volts: Phases: Wires:	1	3 Single			A.I.C. Rating: 10,000 AIC Mains Type: Mains Rating: 125 A MCB Rating:			Notes:	Location: BEDROOM 209 Supply From: Mounting: FLUSH Enclosure: NEMA 1			Pł	Volts: 120/ ases: 1 Vires: 3	208 Sin	јle		A.I.C. Rating: 10,000 AIC Mains Type: Mains Rating: 125 A MCB Rating:
кт	Circuit Description	Trip	Poles		A		В	Poles	Trip	Circuit Description	СКТ		СКТ	Circuit Description T	Ггір	Poles	A		В	Pole	s Trip	Circuit Description
	FI RCPT'S - KITCHEN	20 A	1	540 VA	780 VA			1		REFRIGERATOR	2			-	20 A		40 VA	780 VA		1		REFRIGERATOR
3 G	FI RCPT'S - KITCHEN	20 A	1			540 VA	3840 VA	2	30 A	ELECTRIC COOKTOP	4		3	GFI RCPT'S - KITCHEN 20	20 A	1		540	/A 3840	VA 2	30 A	ELECTRIC COOKTOP
5 18	SLAND GFI RCPT'S - KITCHEN	20 A	1	540 VA	3840 VA					-	6		5		20 A	1 7	20 VA 💢	840 VA				
7 N	IICROWAVE	20 A	1			1200 VA	2500 VA	2	40 A	CLOTHES DRYER	8		7	MICROWAVE 20	20 A	1		1200	VA 2500	VA 2	40 A	CLOTHES DRYER
9 G	SARBAGE DISPOSAL	20 A	1	540 VA	2500 VA						10		9	GARBAGE DISPOSAL 20	20 A	1 5	40 VA	500 VA				
11 D	ISHWASHER	20 A	1			852 VA	850 VA	1	20 A	CLOTHES WASHER	12		11	DISHWASHER 20	20 A	1		852	/A 850	VA 1	20 A	CLOTHES WASHER
13 R	CPT'S - LIVING ROOM	20 A	1	1080 VA	360 VA			1	20 A	GFI RCPT'S - BATHROOM	14		13	RCPT'S - LIVING ROOM 20	20 A	1 10	080 VA	360 VA		1	20 A	GFI RCPT'S - BATHROOM
15 R	CPT'S - BEDROOM	20 A	1			1260 VA	180 VA	1	20 A	GFI / WP RCPT - BALCONY	16		15	RCPT'S - BEDROOM 20	20 A	1		1080	VA 180	VA 1	20 A	GFI / WP RCPT - BALCONY
17 R	CPT'S - DINING ROOM	20 A	1	900 VA	180 VA			1	20 A	GFI RCPT'S - BATHROOM	18			RCPT'S-DINING ROOM 2	20 A	1 9	00 VA	316 VA		1	20 A	LIGHTNIG - DWELLING UNIT
19 R	CPT'S-DEN	20 A	1	~~~	· · · · · · · · · · · · · · · · · · ·	720 VA	423 VA	1	20 A	LIGHTNIG - DWELLING UNIT	20	{	19	VPTAC-1 (UNIT B) 39	35 A	2		3640	VA \ \ 80	VA 1	20 A	EF-1 (UNIT B)
21 V	PTAC-2 (UNIT C)	35 A	2	3640 VA	160 VA		3	1	20 A	EF-1 (UNIT C)	22		21			36	640 VA	0 VA	В	1	20 A	SPARE
23						3640 VA	3 0 VA	1	20 A	SPARE	24	<u> </u>	23	SPARE 2	20 A	THE PARTY		W TO THE TOTAL TOT	01	/A 1	20 A	SPARE
25 S	PARE	20 A	m	OVA	10VA		1	1	20 A	SPARE	26				20 A	1	0 VA	0 VA		1	20 A	SPARE
27 S	PARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28		27	SPARE 20	20 A	1		0 V	۹ 0۱	/A 1	20 A	SPARE
29 S	PARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30		29	SPARE 20	20 A	1	0 VA			1		SPACE
31 S		20 A	1			0 VA		1		SPACE	32			0.7.62		1		-		1		SPACE
33 S			1					1		SPACE	34			0.110		1				1		SPACE
35 S			1					1		SPACE	36			0.110	-	1				1		SPACE
37 S			1					1		SPACE	38			0.1.02		1				1		SPACE
39 S	PACE		1					1		SPACE	40					1				. 1		SPACE
11 S	PACE		1					1		SPACE	42		41	SPACE		1				1		SPACE
			al Load:		60 VA)5 VA										15216		4762 V <i>A</i>			
		Tota	al Amps:	14	15 A	15	3 A							•	Total A	Amps:	146	4	142 A			
gend:													Legend	!:								
tes:													Notes:									

PROJECT TITLE: JOH	N KNOX VILLA	GE - UNIT TYP	E C				PRC)JECT #: 2	2310	04.	00
Or	ptional Meth	od Load Calu	ılat	ion for One-Fan	nily C	Owellings					
General Lighting and Receptacle Loads 2 Do not include open porches, garages, an	220.12				3 x	888 (sq ft outside d	limei	nsion)	=	1	2664
Small Appliance Branch-Circuits 220.52(At least two small appliance branch circuits		ed. 210.11(C)(1)		1500	Χ.	2 (minimum o	of tw	<u>o)</u>	=	2	3000
Laundry Branch-Circuit(s) 220.52(B) At least one laundry branch circuits mus	t be included. 210.	11(C)(2)		1500	Χ.	1 (minimum o	of on	<u>ie)</u>	=	3	1500
Appliances 220.53 Use nameplate rating of ALL appliances n-place, permanently connected, or connespecific circuit), ranges, ovens cooktops, and clothes dryers.	ected to a	Refrigerator Dishwasher	/ -	780 (va each) 852 (va each)		Clothes Washer Clothes Dryer	/ -	850 (va ead 5000 (va ead)		
Convert any maneplate rating given in an volt-amperes by miltiplying the amperes by voltage.	by the rated	Disposal Microwaves	/ -	540 (va each) 1200 (va each)		ater Heater (N/A) Exhaust Fans	/ _	0 (va ead 100 (va ead		_	
Do not include any heating or air condition equipment in this section. #4 TOTAL VA OF ALL APPLIANCES: Ta the total appliances and laundry loads min Range and Clothes Dyer and then add in of the Range and Clothes Dryer	ke 75% of nus the	Range Cook Top (N/A)	/ -	7680 (va each) 0 (va each) 250	. ¹	HW Circ Pump (N/A)	/ -	(va ead 0 (va ead	,	_	
		Range Hood	/ -	(va each)		volt-amperes of all D ABOVE	/ – appl	(va ead	ch)	4	16109
Apply 220.82(B) demand factor to the total 23273 (total of lines 1 through 4)	al of lines 1 through	1 4. 13273	x	40% = 5309	+	10000	0		-	5	15309
Heating and/or Air Conditioning System 2 Use the nameplate rating(s) in volt-ampel a through e.	` '	e systems in lines		Central electric space I heat pumps where the from operate at the sar	controll	ler prevents the co					
					0		x			c)	0
Air-conditioning and cooling system(s), in supplemental heating, unless the controlle supplemental heating from operate at the	er prevents the cor	•	d)	Electric space heating	equipm	ent, if less than fou	ır se	parately co	ontro	llec	units.
	00% = a)	3328	L		000		х			d)	4550
Electrical thermal storage and other heati expected to be continuous at full namepla this section shall not be figured under any	ate value: Systems	qualifying under	(e)	Electric space heating	equipm	ent, if four or more	sep	arately cor	ntroll	ed	units.
0 x 10	00% = b)	0			0		Х	40%	=	e)	0
Total Volt-Ampere Demand Load:		4550 from line 6a through	า 6e)	+	_	15309 (line 5)			-	7	19859
Minimum Amperes	19859			208		95	N	/linimum S	ize		

	PROJECT TITLE: JOHN KNO	X VILLAGE - UNIT TYP	'E B	PROJECT #: 2	3104	1.00
	Optiona	l Method Load Calu	ulation for One-Fa	amily Dwellings		
1	General Lighting and Receptacle Loads 220.12 Do not include open porches, garages, and unuse	d or unfinished spaces not a	daptable for future use.	3 x 766 = (sq ft outside dimension)	: 1	2
2	Small Appliance Branch-Circuits 220.52(A) At least two small appliance branch circuits must	be included. 210.11(C)(1)	150	0 x <u>2</u> (minimum of two)	= 2	3
3	Laundry Branch-Circuit(s) 220.52(B) At least one laundry branch circuits must be inclu	ded. 210.11(C)(2)	150	0 x 1 = (minimum of one)	= 3	1
4	Appliances 220.53 Use nameplate rating of ALL appliances (fastene n-place, permanently connected, or connected to a		/	Clothes Washer / 850 (va eacl	<u> </u>	-
	specific circuit), ranges, ovens cooktops, motors, and clothes dryers.	Dishwasher	/852 (va each)	Clothes Dryer / 5000 (va eacl	1)	-
	Convert any maneplate rating given in amperes to volt-amperes by miltiplying the amperes by the rat		/540 (va each)	Water Heater (N/A) /(va eacl	1)	-
	voltage.	Microwaves	/1200 (va each)	Exhaust Fans /(va eacl	n)	-
	Do not include any heating or air conditioning equipment in this section. #4 TOTAL VA OF ALL APPLIANCES: Take 75% of	Range of	/ 7680 (va each)	HW Circ Pump /0 (va eacl	1)	-
	the total appliances and laundry loads minus the Range and Clothes Dyer and then add in the 100% of the Range and Clothes Dryer		/ (va each)		1)	-
		Range Hood	(va each)	Total volt-amperes of all appliances	1)	-
				LISTED ABOVE	4	1
5	Apply 220.82(B) demand factor to the total of lines 22907 (total of lines 1 through 4) - 10000	= 12907	x 40% = 516	3 + 10000 =	5	1:
6	Heating and/or Air Conditioning System 220.82(C) Use the nameplate rating(s) in volt-amperes for all a through e.			ce heating equipment, including integral supp he controller prevents the compressor and so same time.		
	a unough e.				= c)	
a)	Air-conditioning and cooling system(s), including h supplemental heating, unless the controller prever supplemental heating from operate at the same tir	nts the compressor and	d) Electric space heatin	ng equipment, if less than four separately co	ntrolle	d units
	2517 x 100%	= a) 2517		7000 x 65% =	= d)	4
b)	Electrical thermal storage and other heating system expected to be continuous at full nameplate values this section shall not be figured under any other section.	: Systems qualifying under	e) Electric space heatin	ng equipment, if four or more separately con	rolled	l units.
	0 x 100%	= b) 0		0 x 40% =	e)	
7	Total Volt-Ampere Demand Load: (largest)	4550 VA rating from line 6a throug	h 6e) +	15163 (line 5)	= 7	19
8	Minimum Amperes Divide the total volt-amperes by the voltage	19713	208 - ÷	95 Minimum Siz	١	
1	., vollago	(line 7)	(voltage)	and/or Feed (min.amps) 220.40	er	(min.



GENERAL NOTES

40



COURTYARDS - BUILDING E

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DESIGNER : DAS	DRAWN : MAW, DKW
ARCHITECT : DAS	CHECKED : MAW
ENGINEER : MAW	APPROVED : JSK
NO.	REVISION DESCRIPTION

Addendum #1

PANELBOARD SCHEDULES

Notes:	Location: BEDROOM E467 Supply From: Mounting: FLUSH Enclosure: NEMA 1			i	Volts: Phases: Wires:		3 Single			A.I.C. Rating: 10,000 AIC Mains Type: Mains Rating: 125 A MCB Rating:	
СКТ	Circuit Description	Trip	Poles				В	Poles	Trip	Circuit Description	скт
1	GFI RCPT'S - KITCHEN	20 A	1	540 VA	780 VA			1	20 A	REFRIGERATOR	2
3	GFI RCPT'S - KITCHEN	20 A	1			540 VA	3840 VA	2	30 A	ELECTRIC COOKTOP	4
5	ISLAND GFI RCPT'S - KITCHEN	20 A	1	540 VA	3840 VA						6
7	MICROWAVE	20 A	1			1200 VA	2500 VA	2	40 A	CLOTHES DRYER	8
9	GARBAGE DISPOSAL	20 A	1	540 VA	2500 VA						10
11	DISHWASHER	20 A	1			852 VA	850 VA	1	20 A	CLOTHES WASHER	12
13	RCPT'S - LIVING ROOM	20 A	1	1440 VA	360 VA			1	20 A	GFI RCPT'S - BATHROOM	14
15	RCPT'S - PRIMARY BEDROOM	20 A	1			1440 VA	180 VA	1	20 A	GFI / WP RCPT - BALCONY	16
17	RCPT'S - DINING ROOM	20 A	1	1080 VA	360 VA			1	20 A	GFI RCPT'S - BATHROOM	18
19	RCPT'S - BEDROOM	20 A	1			1260 VA	432 VA	1	20 A	LIGHTNIG - DWELLING UNIT	20
21	VPTAC-3 (UNIT D3)	50 A	2	4784 VA	160 VA			1	20 A	EF-1 (UNIT D3)	22
23						4784 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30
31	SPARE	20 A	1			0 VA		1		SPACE	32
33	SPACE		1					1		SPACE	34
35	SPACE		1					1		SPACE	36
37	SPACE		1					1		SPACE	38
39	SPACE		1					1		SPACE	40
41	SPACE		1					1		SPACE	42
			al Load:	1692	4 VA	1787	78 VA				
		Tota	I Amps:	163	3 A	17	1 A				

PROJECT TITLE:	JOHN KNOX VILL	AGE - UNIT TYP	PE D3	P	ROJECT #: 231	04.0	0
	Optional Met	hod Load Calu	ulation for One-Fan	nily Dwellings			
General Lighting and Receptacle Do not include open porches, gas		inished spaces not ac	daptable for future use.	3 x 1120 (sq ft outside dir	= mension)	1	3360
Small Appliance Branch-Circuits At least two small appliance bra	` ,	uded. 210.11(C)(1)	1500	x2 (minimum of	= = = = = = = = = = = = = = = = = = =	2	3000
Laundry Branch-Circuit(s) 220.52 At least one laundry branch circ	• •	0.11(C)(2)	1500	x1 (minimum of	one) =	3	1500
Appliances 220.53 Use nameplate rating of ALL ap	•	Refrigerator	/	Clothes Washer /	850 (va each)		
n-place, permanently connected, specific circuit), ranges, ovens co and clothes dryers.		Dishwasher	/	Clothes Dryer /	5000 (va each)		
Convert any maneplate rating giv	•	Disposal	/	Water Heater (N/A) /	(va each)		
volt-amperes by miltiplying the ar voltage.	mperes by the rated	Microwaves	/ 1200 (va each)	Exhaust Fans /	100 (va each)		
Do not include any heating or air equipment in this section. #4 TOTAL VA OF ALL APPLIAN	-	Range	/ 7680 (va each)	HW Circ Pump (N/A)	(va each)		
the total appliances and laundry Range and Clothes Dyer and the	loads minus the	Cook Top (N/A)	(va each)	/	(va each)		
of the Range and Clothes Dryer		Range Hood	/ 250 (va each)	1	(va each)		
				Total volt-amperes of all a LISTED ABOVE	ppliances	4	16109
Apply 220.82(B) demand factor to	o the total of lines 1 throu	igh 4.					
23969 (total of lines 1 through 4)	10000 =	13969	x 40% = 5588	+ 10000	=	5	15588
Heating and/or Air Conditioning S Use the nameplate rating(s) in vo a through e.	. ,	ble systems in lines	c) Central electric space heat pumps where the from operate at the san	controller prevents the com			
) x	65% =	c)	0
 Air-conditioning and cooling syste supplemental heating, unless the supplemental heating from opera 	controller prevents the c		d) Electric space heating of	equipment, if less than four	separately contro	olled	units.
3361 x	100% = a)	3361	10	000 x	65% =	d)	6500
Electrical thermal storage and otl expected to be continuous at full this section shall not be figured u	nameplate value: System	ns qualifying under	e) Electric space heating of	equipment, if four or more s	separately control	led u	nits.
0 ×	(100% = b)	0) x	40% =	e)	0
Total Volt-Ampere Demand Load:	(largest VA ratio	6500 g from line 6a through	+ h 6e)	15588 (line 5)	=	7	22088
Minimum Amperes Divide the total volt-amperes	220	-	208	106	Minimum Size Service	9	
by the voltage	(line	<u>: 7)</u>	_ - (voltage)	(min.amps)	and/or Feeder 220.40		(min. is 100 <i>P</i>

PROJECT TITLE: JOHN KN	OX VILLAGE - UNIT TYP	E D2		PROJECT #: 23	104	.00
Option	al Method Load Calu	llation for One-Fan	nily Dwellings			
General Lighting and Receptacle Loads 220.12 Do not include open porches, garages, and unu	sed or unfinished spaces not ac	daptable for future use.	3 x112 (sq ft outside		1	3360
Small Appliance Branch-Circuits 220.52(A) At least two small appliance branch circuits mu	st be included. 210.11(C)(1)	1500	x2 (minimum	= of two)	2	3000
Laundry Branch-Circuit(s) 220.52(B) At least one laundry branch circuits must be in	cluded. 210.11(C)(2)	1500	x1 (minimum	of one)	3	1500
Appliances 220.53 Use nameplate rating of ALL appliances (faste n-place, permanently connected, or connected specific circuit), ranges, ovens cooktops, motors	o a	/ 780 (va each) 852	Clothes Washer Clothes Dryer	/ 850 (va each)		-
and clothes dryers. Convert any maneplate rating given in amperes volt-amperes by miltiplying the amperes by the	to Disposal	(va each) / (va each)	Water Heater (N/A)	(va each) (va each)		-
voltage. Do not include any heating or air conditioning equipment in this section.	Microwaves Range	/ 1200 (va each) / 7680	Exhaust Fans HW Circ Pump	/ 100 (va each))	
#4 TOTAL VA OF ALL APPLIANCES: Take 759 the total appliances and laundry loads minus the Range and Clothes Dyer and then add in the 10 of the Range and Clothes Dryer	6 of Cook Top (N/A)	(va each) (va each) 250	(N/A) -	(va each) (va each)		-
of the Range and Clothes Diver	Range Hood	(va each)	Total volt-amperes of al	/ (va each)	4	16109
Apply 220.82(B) demand factor to the total of lir	es 1 through 4.				Н	
23969 - 10000 (total of lines 1 through 4)	= 13969	x 40% = 5588	+ 1000	00 =	5	15588
Heating and/or Air Conditioning System 220.82 Use the nameplate rating(s) in volt-amperes for a through e.		 c) Central electric space is heat pumps where the from operate at the sar 	controller prevents the c			
			0	x 65% =	c)	0
Air-conditioning and cooling system(s), including supplemental heating, unless the controller prevsupplemental heating from operate at the same	ents the compressor and	d) Electric space heating	equipment, if less than fo	our separately cont	rolle	d units.
3361 x 100%	= a) 3361	10	000	x 65% =	d)	6500
Electrical thermal storage and other heating system expected to be continuous at full nameplate values this section shall not be figured under any other	ie: Systems qualifying under	e) Electric space heating	equipment, if four or mor	e separately contro	olled	units.
0 x 100%	= b) 0		0	x 40% =	е)	0
Total Volt-Ampere Demand Load: (large	6500 st VA rating from line 6a through	+ + + + + + + + + + + + + + + + + + +	15588 (line 5)	=	7	22088
Minimum Amperes Divide the total volt-amperes by the voltage	22088	208 - ÷	. = 8 106	Minimum Size 9 Service and/or Foodon	١	
, a a a a d	(line 7)	(voltage)	(min.amps)	and/or Feeder 220.40		(min. is 100A

Volts: 120/208 Single

Trip Poles A B Poles Trip Circuit Description

Phases: 1

Total Amps: 161 A 170 A

A.I.C. Rating: 10,000 AIC

Mains Type:

MCB Rating:

Mains Rating: 125 A

Branch Panel: LC-D2

Circuit Description

1 GFI RCPT'S - KITCHEN

9 GARBAGE DISPOSAL

13 RCPT'S - LIVING ROOM

17 RCPT'S - DINING ROOM

19 RCPT'S - BEDROOM

21 VPTAC-3 (UNIT D2)

25 SPARE

29 SPARE

31 SPARE 33 SPACE 35 SPACE

37 SPACE

39 SPACE

41 SPACE

Legend:

15 RCPT'S - PRIMARY BEDROOM

7 MICROWAVE

11 DISHWASHER

3 GFI RCPT'S - KITCHEN

5 ISLAND GFI RCPT'S - KITCHEN

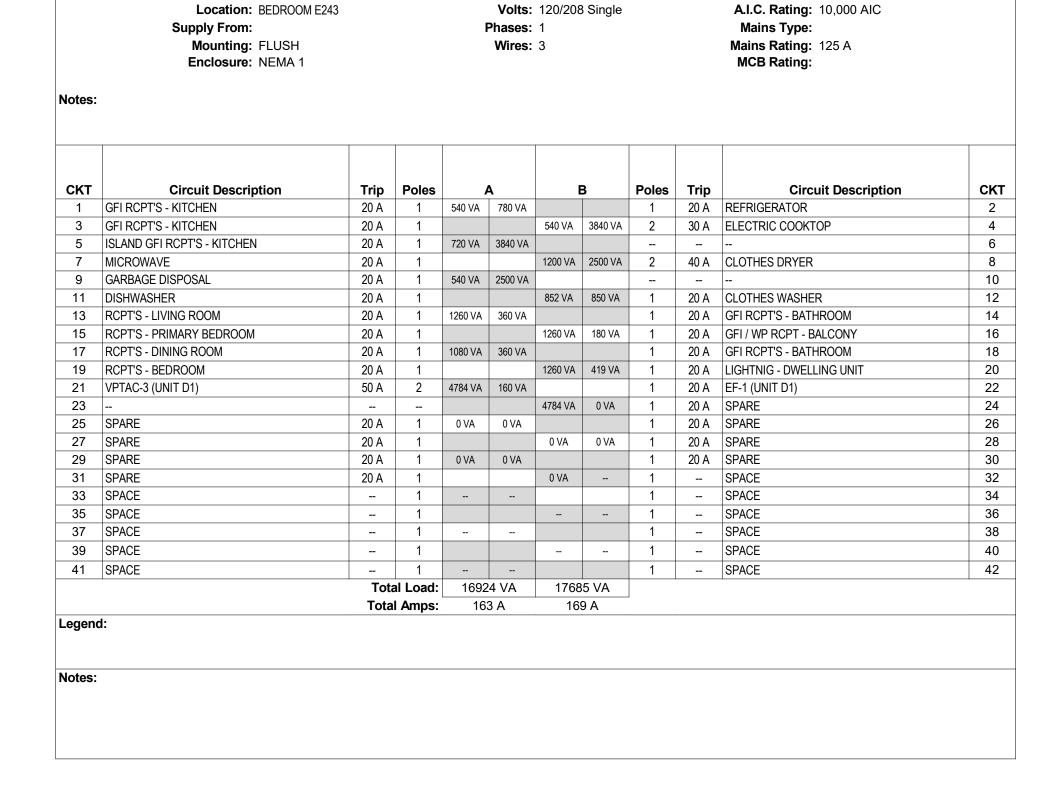
Supply From:

Location: BEDROOM E259

Mounting: FLUSH

Enclosure: NEMA 1

PROJECT TITLE: J	OHN KNOX VILLA					- PKUJ	ECT #: 23'	104
	Optional Metho	od Load Calu	<u>ılatio</u>	on for One-Fan	nily Dwellings			
General Lighting and Receptacle Loa Do not include open porches, garage		shed spaces not ac	daptab	le for future use.	3 x11 (sq ft outside	80 e dimens	sion) =	1
Small Appliance Branch-Circuits 220 At least two small appliance branch		d. 210.11(C)(1)		1500	x(minimul	2 m of two)	<u> </u>	2
3 Laundry Branch-Circuit(s) 220.52(B) At least one laundry branch circuits		1(C)(2)		1500	X(minimur	1 m of one	=	3
4 Appliances 220.53 Use nameplate rating of ALL applian		Refrigerator	/ _	780 (va each)	- Clothes Washer	/	850 (va each)	
n-place, permanently connected, or o specific circuit), ranges, ovens cookto and clothes dryers.		Dishwasher	/ _	852 (va each)	- Clothes Dryer	/	5000 (va each)	
Convert any maneplate rating given		Disposal	/ _	540 (va each)	- Water Heater (N/A	.) /	(va cach) (va each)	
volt-amperes by miltiplying the ampe voltage.	res by the rated	Microwaves	/ _	1200 (va each)	_ Exhaust Fans	/	100 (va each)	
Do not include any heating or air con equipment in this section.	-	Range	/ —	7680 (va each)	HW Circ Pump (N/A)	/ —	(va each)	
#4 TOTAL VA OF ALL APPLIANCES the total appliances and laundry load Range and Clothes Dyer and then ad	ls minus the	Cook Top (N/A)	/ —	0 (va each)	-	/ —	0 (va each)	
of the Range and Clothes Dryer		Range Hood	/ —	250 (va each)	_	/ —	0 (va each)	_
					Total volt-amperes of a LISTED ABOVE	all applia	nces	4
5 Apply 220.82(B) demand factor to the 24149 (total of lines 1 through 4) 6 Heating and/or Air Conditioning Syst	10000 =	14149		40% = 5660 Sentral electric space h	+ 100	000 uding inte	= egral supple	5
Use the nameplate rating(s) in volt-a a through e .	` ,	e systems in lines	, h		controller prevents the			
					0			c)
 Air-conditioning and cooling system(s supplemental heating, unless the cor supplemental heating from operate a 	ntroller prevents the com	•	d)	lectric space heating	equipment, if less than	four sepa	arately cont	rolle
3661 x	100% = a)	3661		10	000	x	65% =	d)
 Electrical thermal storage and other expected to be continuous at full nan this section shall not be figured unde 	neplate value: Systems o	qualifying under	e) E	lectric space heating	equipment, if four or mo	re sepai	rately contro	lled
0 x	100% = b)	0			0	X	40% =	e)
7 Total Volt-Ampere Demand Load:	(largest VA rating fi	6500 rom line 6a througl	h 6e)	+	15660 (line 5)		=	7
8 Minimum Amperes Divide the total volt-amperes by the voltage —	22160			208	_ = 8 107		nimum Size	۱,
■ nv the voltage —			- - -				d/or Feeder	



Branch Panel: LC-D1



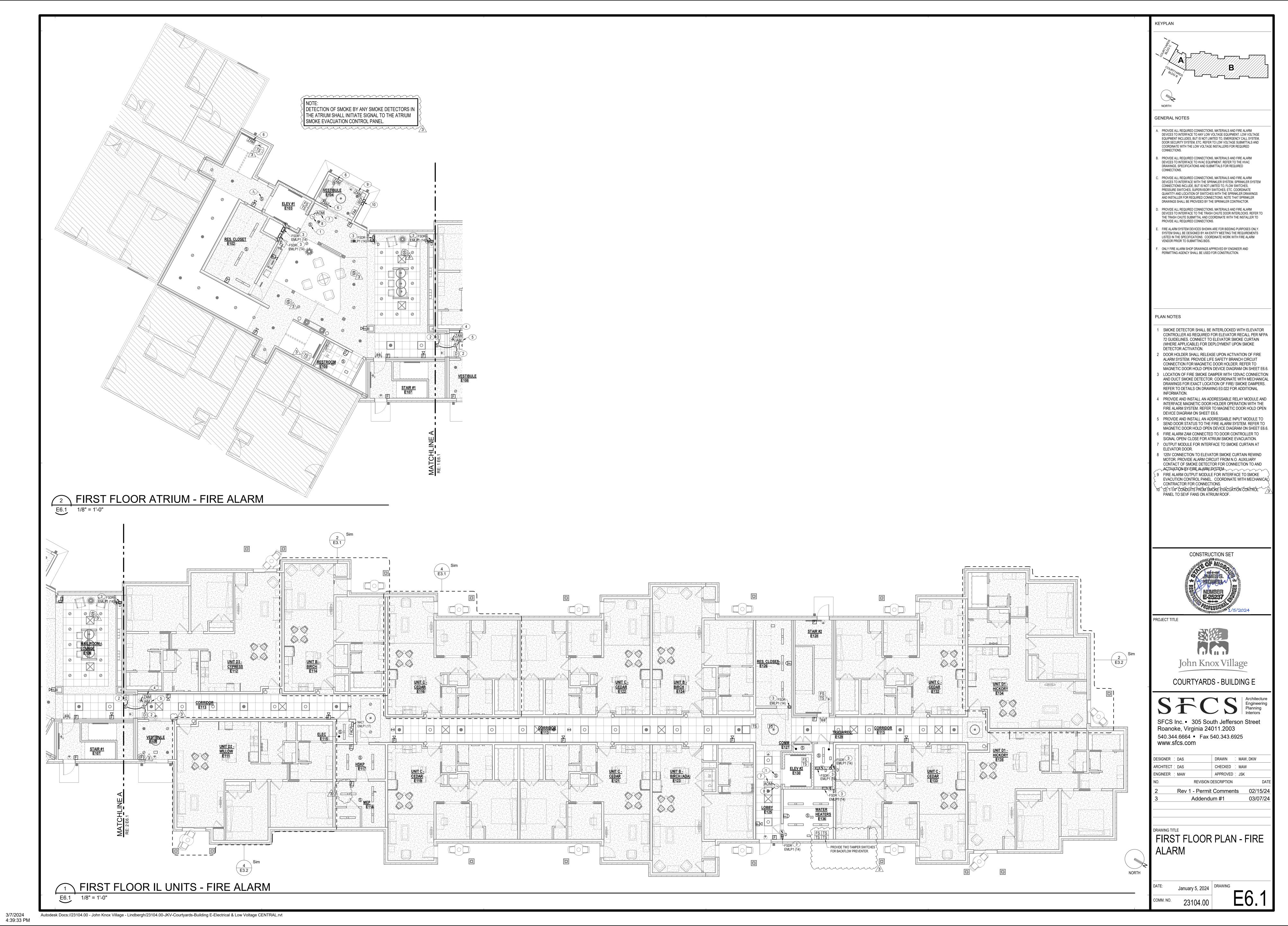
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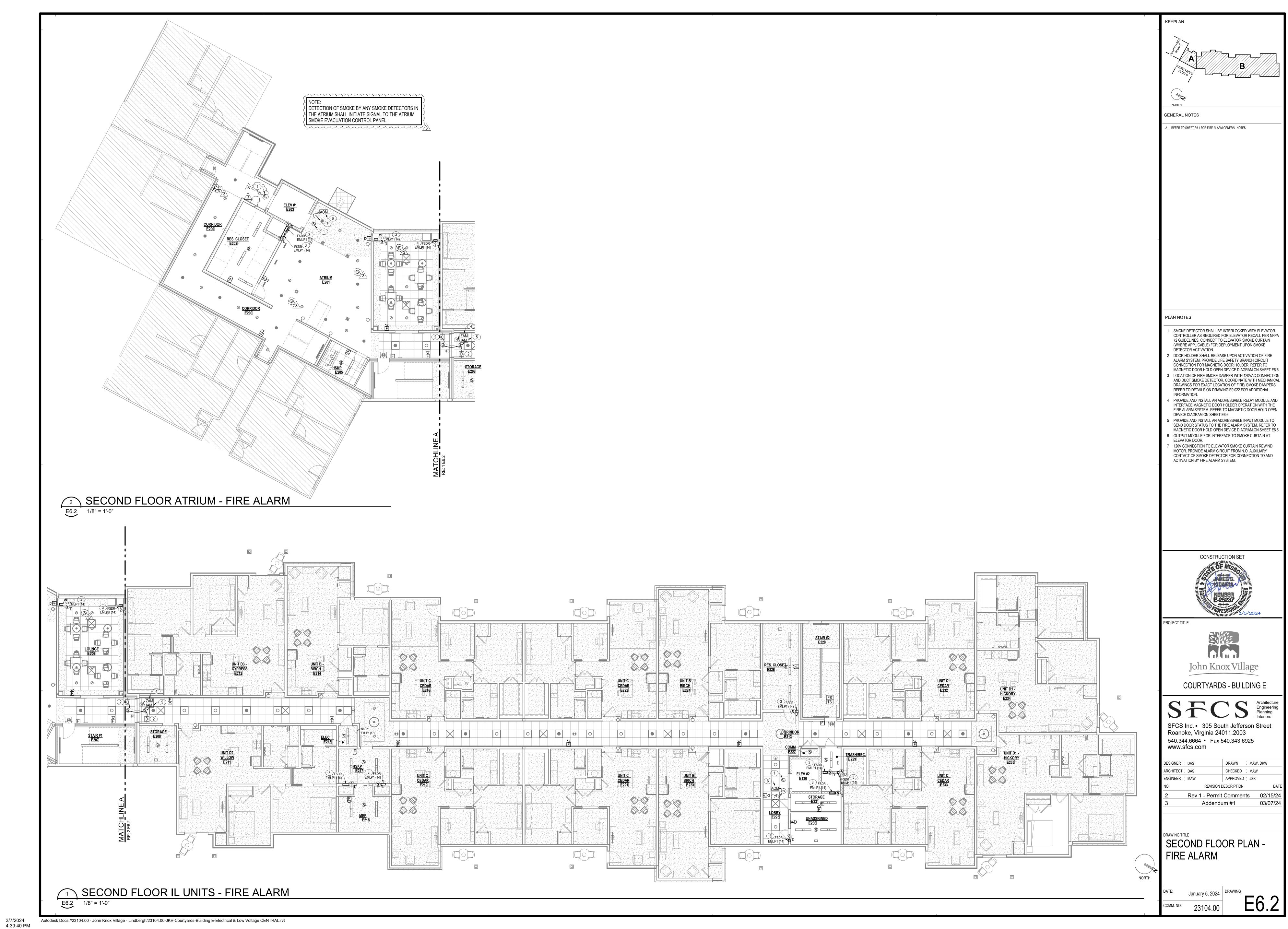


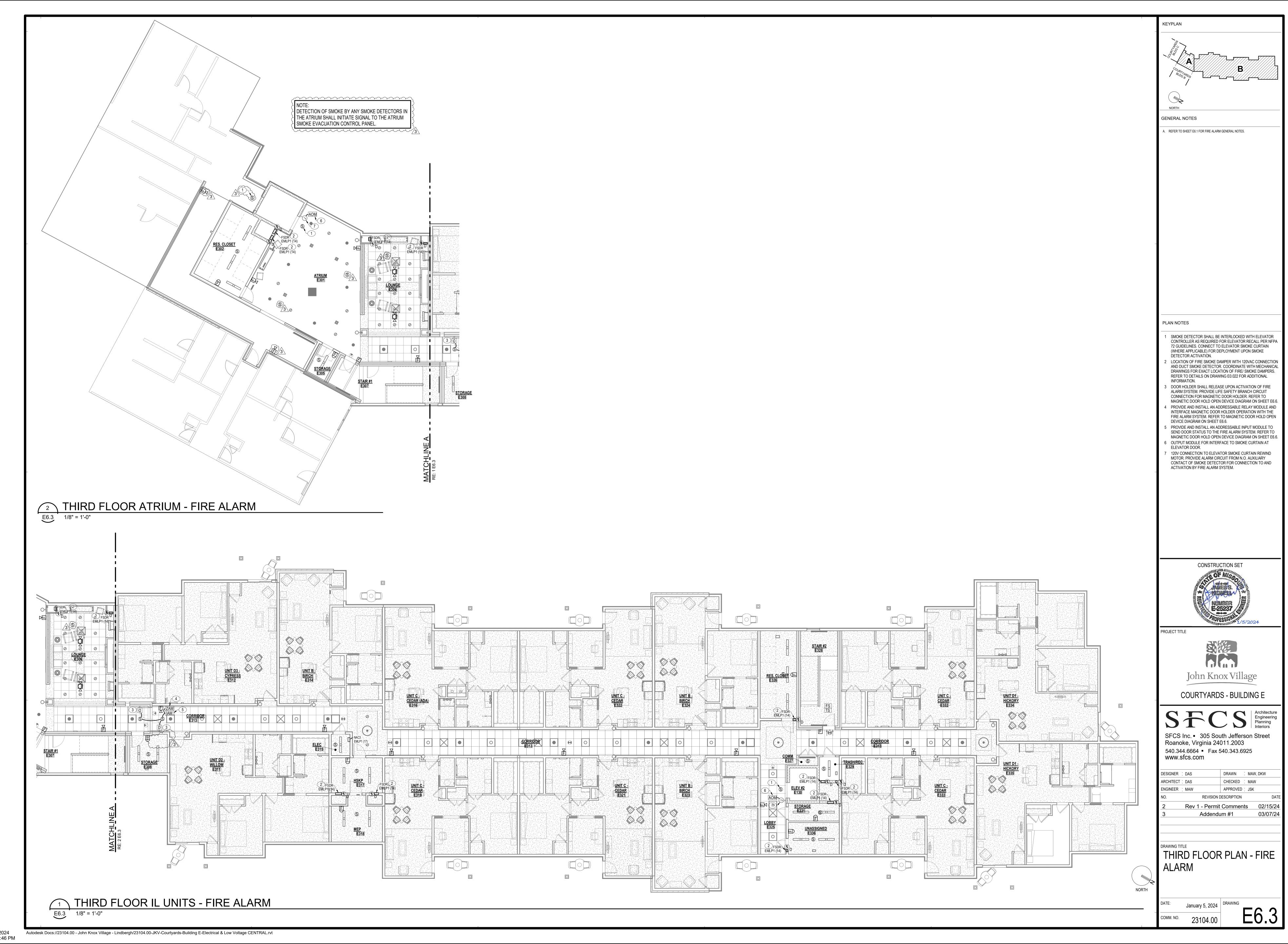
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DESIGNER : DAS ARCHITECT : DAS CHECKED : MAW APPROVED ; JSK REVISION DESCRIPTION

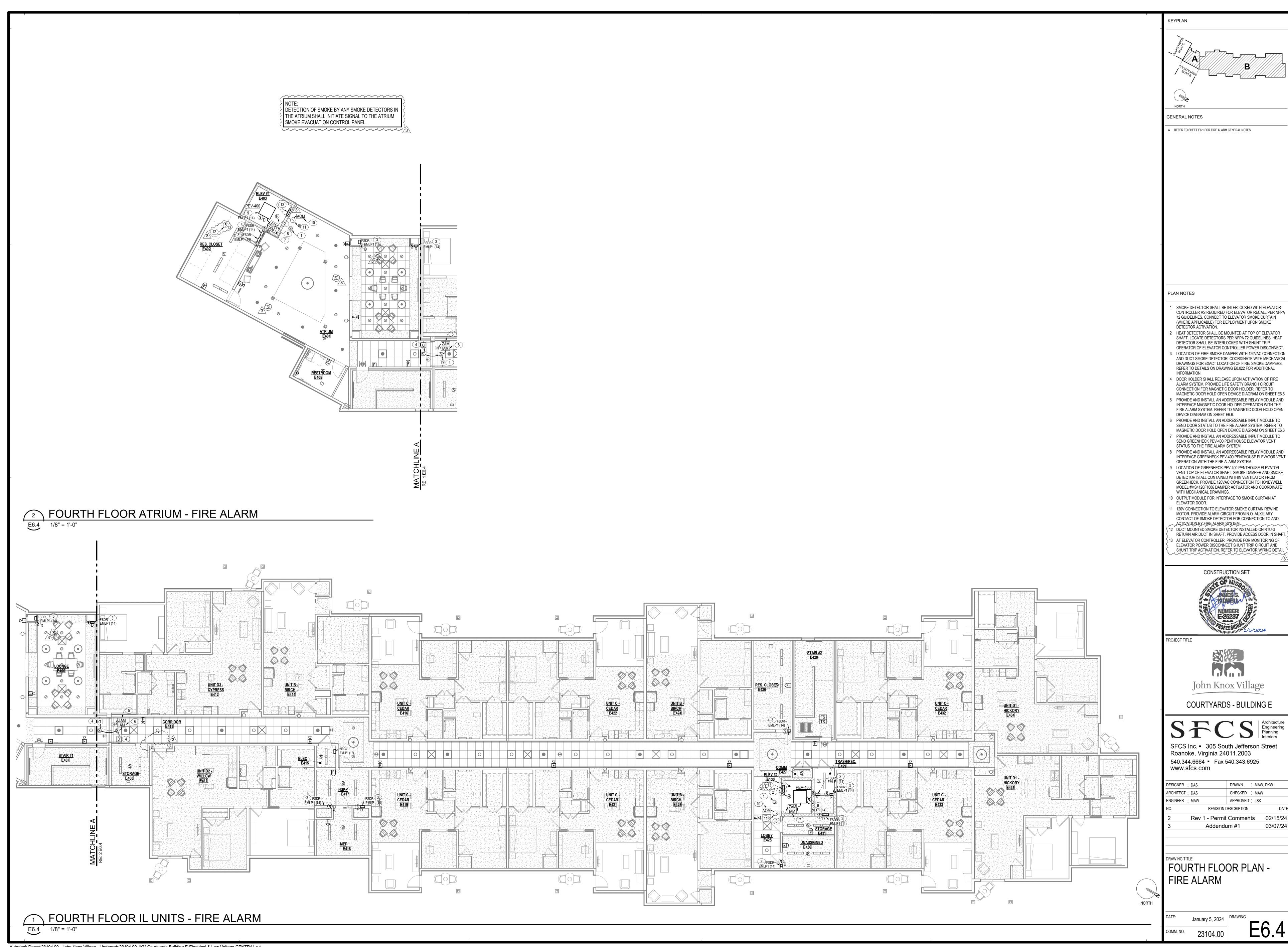
PANELBOARD SCHEDULES







3/7/2



DRAWN : MAW, DKW

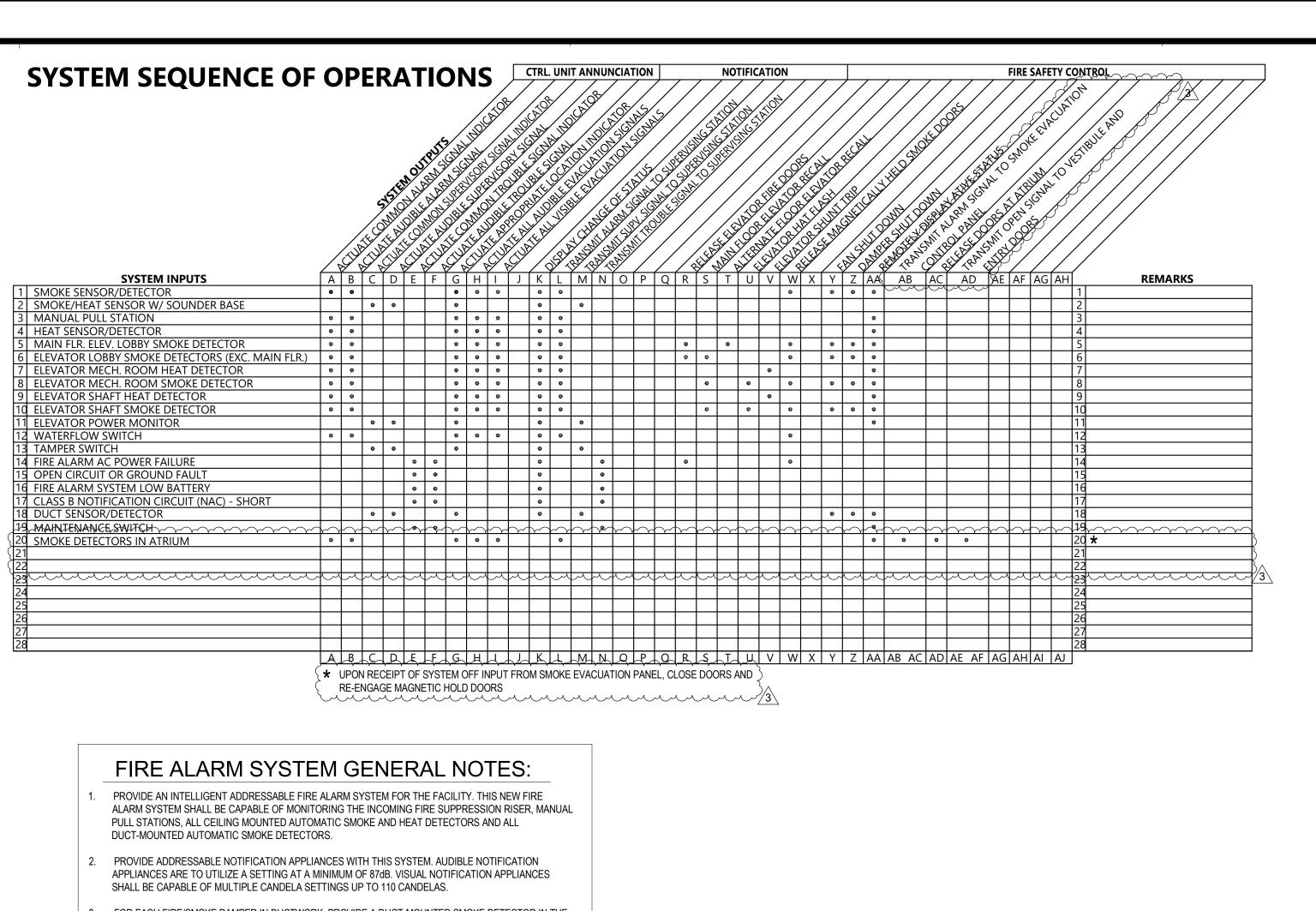
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REVISION DESCRIPTION

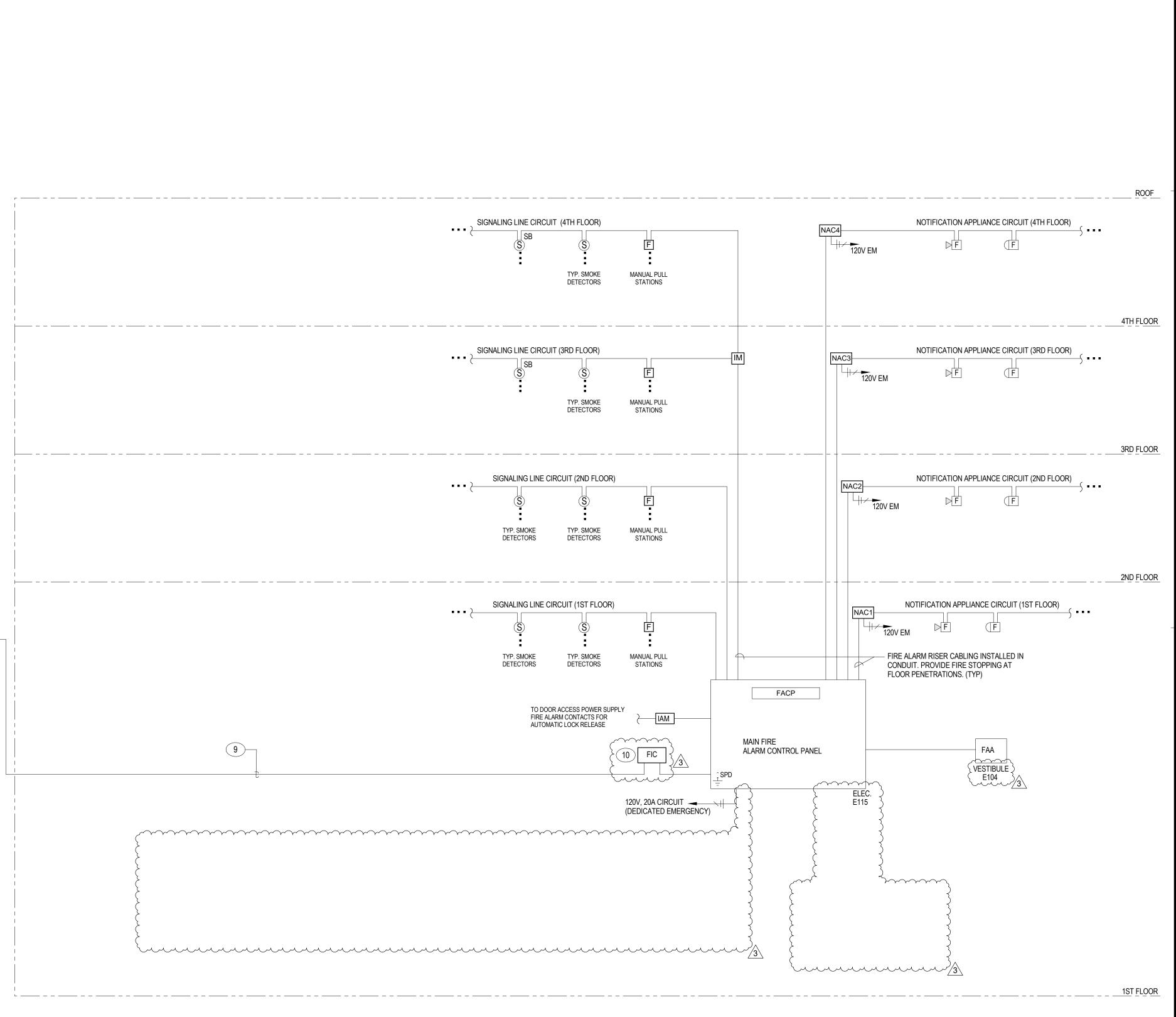
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- FOR EACH FIRE/SMOKE DAMPER IN DUCTWORK, PROVIDE A DUCT-MOUNTED SMOKE DETECTOR IN THE DUCTWORK TO MONITOR THE DUCT OPENING IN THE SMOKE/FIRE RATED PARTITION. THESE DETECTORS ARE TO BE PROVIDED WITH AN AUXILIARY, 24V, NORMALLY-CLOSED, RELAY WHICH HOLDS THE DAMPER OPEN. THIS RELAY IS TO KEEP THE DAMPER OPEN UNDER NORMAL CONDITIONS. THIS RELAY IS TO BE WIRED SO THAT IT OPENS, THUS ALLOWING THE DAMPER TO CLOSE, IN THE EVENT OF AN ALARM OR LOSS OF POWER CONDITION. IN ADDITION TO THE RELAY, PROVIDE A 120V-24V CONTROL TRANSFORMER, FOR EACH DAMPER, AND CONNECT TO CLOSEST 120V RECEPTACLE CIRCUIT. THESE DETECTORS ARE TO BE SUPPLIED AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, AND INSTALLED, BY THE ELECTRICAL CONTRACTOR.
- 4. FIRE ALARM MANUAL STATIONS SHALL BE DOUBLE-ACTION TYPE, POSITIVE VISUAL INDICATION OF OPERATION, KEY RESET AND ALL SHOULD BE KEYED ALIKE.
- AVOID PLACEMENT OF HEAT DETECTORS CLOSE TO HEAT-PRODUCING EQUIPMENT WHERE RATE-OF-RISE WILL DEGRADE DETECTOR PERFORMANCE OR PRODUCE NUISANCE ALARMS. USE DEVICES CAPABLE FIXED TEMPERATURE (165°F TO 190°F) DETECTION IN SUCH AREAS.
- ALL ANNUNCIATOR LEGEND WORDING AND/OR ALPHANUMERIC DISPLAY LEGENDS SHALL BE APPROVED BY THE ENGINEER, OWNER AND/OR LOCAL FIRE DEPARTMENT AUTHORITY, AS APPLICABLE. SUBMIT THIS INFORMATION WITH SHOP DRAWING SUBMITTALS.
- THE SENSITIVITY OF SMOKE DETECTORS SHALL BE ADJUSTED FOR THE SERVICE DUTY IN THE AREA INDICATED, TO SUIT BUILDING OPERATIONAL CONDITIONS.
- 8. WIRE SIZE SELECTIONS FOR AUDIO/VISUAL UNITS SHALL BE CALCULATED AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- RISER DIAGRAM FOR FIRE ALARM SYSTEM IS DIAGRAMMATIC AND FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM THE MANUFACTURER AND THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHALL'S OFFICE OR THE LOCAL AUTHORITY HAVING JURISDICTION, AS APPLICABLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANTITIES AND LOCATION OF FIRE ALARM DEVICES PRIOR TO SYSTEM INSTALLATION.
- 10. AUTOMATIC FIRE ALARM DETECTORS SHALL BE LOCATED SO AS TO PREVENT SHIELDING BY DUCTWORK, EQUIPMENT AND PIPING ON CEILING. SPACING BETWEEN DETECTORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS IN ANY CASE. ADDITIONAL DETECTORS SHALL BE PROVIDED IF NEEDED TO INSURE COMPLETE COVERAGE OF THE INDICATED SPACE.
- PER NFPA 72, 18.5.4.4.5 VISIBLE APPLIANCES SHALL BE NO MORE THAN 15 FT. FROM THE END OF THI CORRIDOR WITH A SEPARATION NO GREATER THAN 100 FT. BETWEEN APPLIANCES. ANY INTERRUPTION OF THE CONCENTRATED VIEWING PATH SUCH AS FIRE DOORS OR ELEVATION CHANGE, THE AREA SHALL BE CONSIDERED AS A SEPARATE CORRIDOR. CORRIDORS WHERE MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES ARE IN ANY FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION.
- 12. MOUNT ALL VISUAL UNITS AT NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR.
- 13. MOUNT ALL MANUAL PULL STATIONS WITHIN 5' OF DOORWAYS AND BETWEEN 42" AND 48" TO CENTER OF DEVICE ABOVE FINISHED FLOOR. MEASUREMENT TO BE VERTICAL.
- 14. ALL WIRING SHALL BE IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRIC CODE) ARTICLE 760 AND
- 15. CONTRACTOR SHALL CHECK ALL RUNS OF CABLE FOR SHORTS OR GROUND, FOR OPEN WIRING AND SHALL INSTALL AND CHECK FOR ALL RESISTORS TO BE IN PLACE.
- 16. CONTRACTOR SHALL PROTECT SMOKE DETECTORS FROM THE ENTRANCE OF DUST OR DIRT DURING
- 17. PER NFPA, DETECTORS SHOULD NOT BE LOCATED IN A DIRECT AIR-FLOW AND NO CLOSER THAN 3 FT. (900MM) FROM AN AIR SUPPLY DIFFUSER OR RETURN OPENING.
- 18. AREA SMOKE DETECTORS IN DWELLING UNITS SHALL BE SUCH THAT ACTIVATION OF SMOKE DETECTOR SHALL ANNUNCIATE AS A SUPERVISORY ALARM AND NOT INITIATE A FIRE ALARM ACTIVATION.
- 19. ALL FIRE ALARM RISER CABLING, SMOKE EVACUATION CABLING AND STAIRWELL PRESSURIZATION CABLING SHALL BE INSTALLED IN CONTINUOUS RACEWAY.



FIRE ALARM SYSTEM RISER LEGEND:

FIRE ALARM HORN/ STROBE (VISUAL OUTPUT @ 110

MOUNT TOP OF PULL STATION @ 48" A.F.F.

MANUAL FIRE ALARM DUAL-ACTION PULL STATION.

WALL MOUNTED FIRE ALARM STROBE LIGHT. MOUNT @

80" A.F.F. OR 6" BELOW CEILING. 'C' DENOTES CEILING

CEILING MOUNTED FIRE ALARM HEAT DETECTOR

ICP FOUR (4) CIRCUIT FIRE ALARM INDICATING CIRCUIT

SIGNALING LINE CIRCUIT ISOLATION MODULE.

ATRIUM SMOKE EVACUATION SYSTEM INTERFACE:

PROVIDE SYSTEM INPUT AND OUTPUT MODULES TO INTERFACE THE FIRE ALARM

- SEND AUTOMATIC SYSTEM INITIATION SIGNAL UPON DETECTION OF SMOKE BY

MANUAL ON SIGNAL FROM CONTROL PANEL SHALL INITIATE ALL OUTPUTS

EXTEND WIRING IN EMT TO CONTROL PANEL. TERMINATION OF WIRING AT

SYSTEM AND DEVICES TO THE OPERATION OF THE SMOKE EVACUATION SYSTEM

INTERFACE TO SYSTEM OFF SIGNAL, WHICH WILL OVERRIDE SMOKE

CEILING MOUNTED FIRE ALARM SMOKE DETECTOR

CANDELAS)

SB = SOUNDER BASE

POWER EXTENDER.

D = DUCT TYPE

ANY DETECTOR IN THE ATRIUM.

SIMILAR TO ATRIUM SMOKE DETECTOR.

DETECTION SIGNAL.

FIRE ALARM FIC

FACP

EXISTING JOHNSON

CONTROL MAIN FIRE ALARM CONTROL PANEL IN

(EXISTING BUILDING B

F FIRE ALARM SPEAKER/ STROBE (VISUAL OUTPUT @ 110 AOM ADDRESSABLE OUTPUT MODULE.

INDIVIDUAL ADDRESSABLE MONITOR MODULE.

TS FIRE ALARM TAMPER SWITCH

PIV FIRE ALARM POST INDICATING VALVE

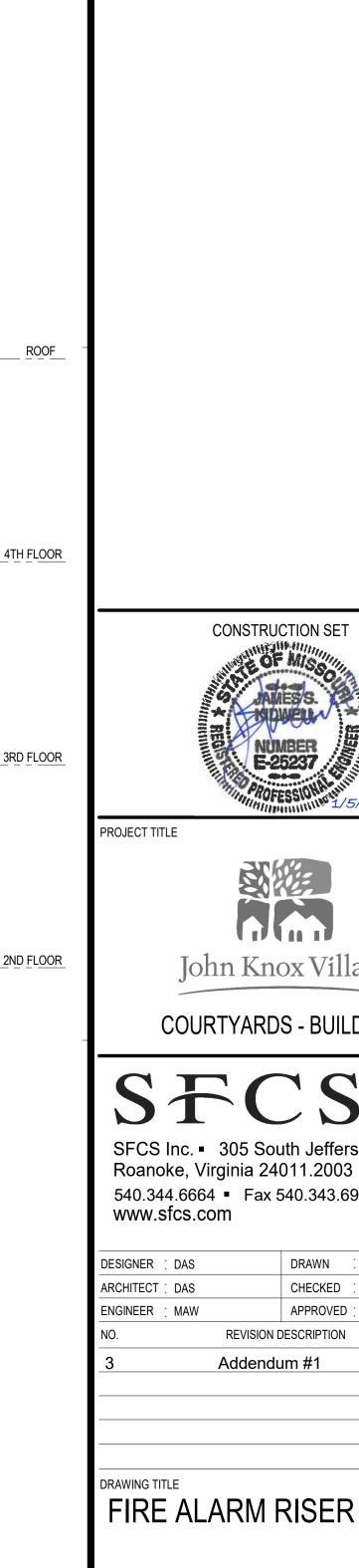
FAA FIRE ALARM REMOTE ANNUNCIATOR

FIRE FIGHTER PHONE JACK

NAC NOTIFICATION APPLIANCE CIRCUIT PANEL

FS FIRE ALARM FLOW SWITCH

FACP FIRE ALARM CONTROL PANEL



GENERAL NOTES

FIRE ALARM KEYED NOTES:

ELEVATOR LOBBY SMOKE DETECTORS.

BUILDING SYSTEM.

1. COORDINATE WITH DRAWINGS/ SPRINKLER CONTRACTOR FOR ACTUAL NUMBER OF TAMPER AND FLOW SWITCHES REQUIRED TO BE MONITORED ON THE FIRE

SUPPRESSION RISER AND THE SUPPRESSION ZONES ON EACH FLOOR.

3. TO STAIR PRESSURIZATION FAN FIRE ALARM CONTACTS FOR AUTOMATIC

5. EXISTING JOHNSON CONTROL FIRE ALARM CONTROL PANEL. SHALL BE MODIFIED TO ACCEPT ANNUNCIATION FROM NEW LINDBERGH

6. FIBER OPTIC TERMINATION CABINET IN EXISTING COMMUNICATIONS ROOM.

PATCH NEW FIBER OPTIC CABLE TO EXISTING FIRE ALARM SYSTEM FIBER

7. EXISTING FIBER OPTIC COMMUNICATIONS CARD IN JOHNSON CONTROLS

8. CONNECT NEW FIBER OPTIC CABLES TO EXISTING FIBER OPTIC FIRE ALARM

9. FIBER OPTIC COMMUNICATION CABLING IN 2" CONDUIT, 6 STRAND MULTIMODE

CABLE OR AS PER FIRE ALARM MANUFACTURER. EXTEND TO EXISTING TWR BLDG NETWORK PANEL.

NETWORK IN ORDER TO MAINTAIN REDUNDANT LOOP NETWORK

10. 12 STRAND, MULTIMODE, WALL MOUNT, SPLICE ENCLOSURE.

ACTIVATION OF FANS THROUGH FIRE SYSTEM (TYPICAL)

4. TO STAIRWELL PRESSURIZATION FAN CONTROL PANEL(S).

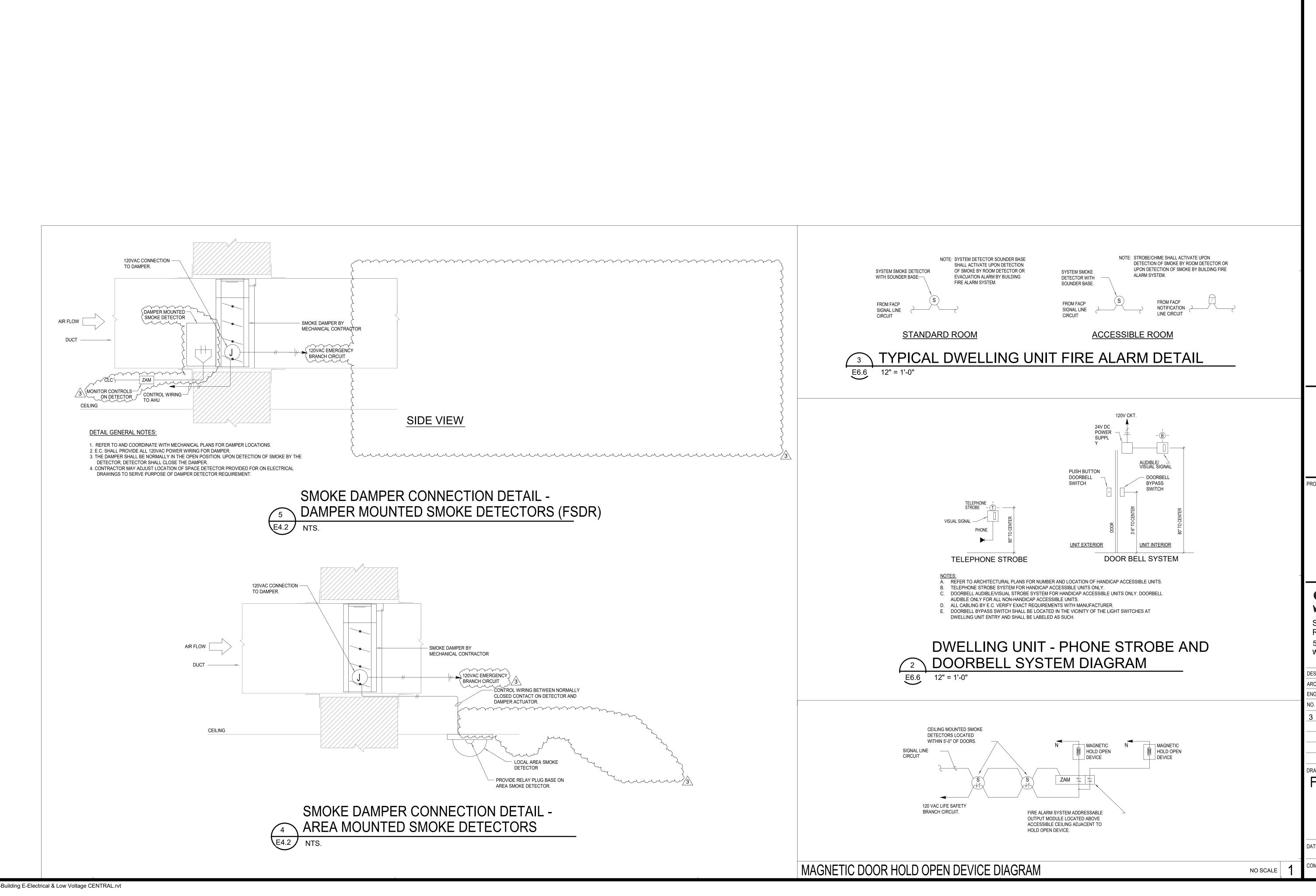
2. EXTEND TO ELEVATOR CONTROLLER FOR FIREMAN RECALL. TYPICAL FOR ALL

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NO SCALE

FIRE ALARM SYSTEM RISER DIAGRAM



CONSTRUCTION SET PROJECT TITLE

GENERAL NOTES

COURTYARDS - BUILDING E

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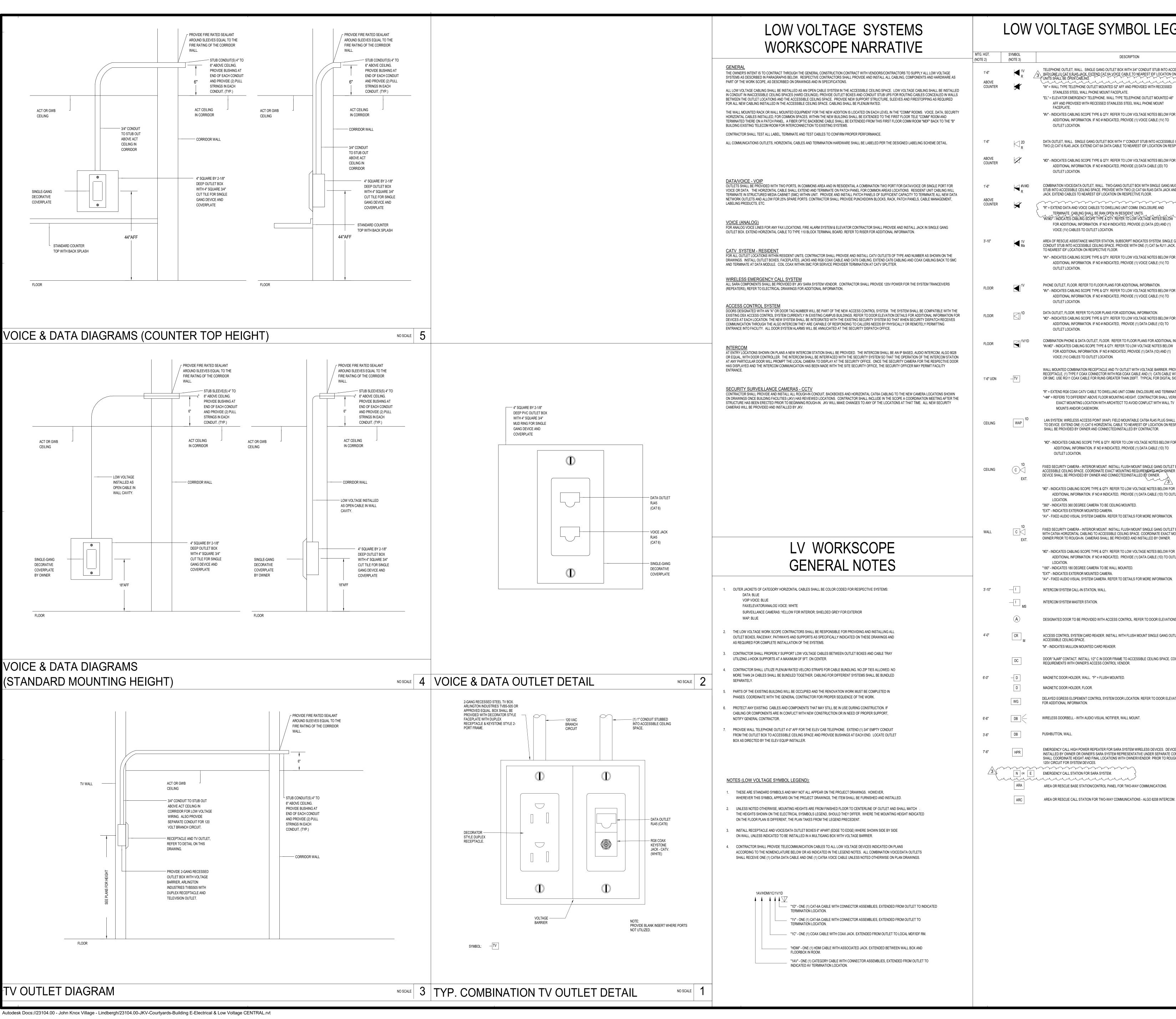
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Addendum #1

FIRE ALARM DETAILS

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LOW VOLTAGE SYMBOL LEGEND

TG. HGT. OTE 2)	SYMBOL (NOTE 3)	DESCRIPTION	1
1'-6" ABOVE COUNTER	1V R	TELEPHONE OUTLET, WALL. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE RROVADE. WITH ONE (1) CAT 6 R.145 JACK EXTEND CAT 6A VOICE CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR RESIDENT UNITS SHALL BE OPEN CABLING. "W" = WALL TYPE TELEPHONE OUTLET MOUNTED 52" AFF AND PROVIDED WITH RECESSED STAINLESS STEEL WALL PHONE MOUNT FACEPLATE. "EL" = ELEVATOR EMERGENCY TELEPHONE, WALL TYPE TELEPHONE OUTLET MOUNTED 46"	
		AFF AND PROVIDED WITH RECESSED STAINLESS STEEL WALL PHONE MOUNT FACEPLATE. "#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.	
1'-6"	2D R	DATA OUTLET, WALL. SINGLE GANG OUTLET BOX WITH 1" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH TWO (2) CAT 6 RJ45 JACK. EXTEND CAT 6A DATA CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR.	
ABOVE COUNTER	×	"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (2) DATA CABLE (2D) TO OUTLET LOCATION.	
1'-6"	#V/#D	COMBINATION VOICE/DATA OUTLET, WALL. TWO-GANG OUTLET BOX WITH SINGLE GANG MUG RING AND 1-1/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH TWO (2) CAT 6A RJ45 DATA JACK AND ONE (1) CAT 6A RJ45 VOICE JACK. EXTEND CABLES TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR.	
ABOVE COUNTER	×	"R" = EXTEND DATA AND VOICE CABLES TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. CABLING SHALL BE RAN OPEN IN RESIDENT UNITS. "#V/#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (2) DATA (2D) AND (1) VOICE (1V) CABLES TO OUTLET LOCATION.	
3'-10"	I 1V Ma	AREA OF RESCUE ASSISTANCE MASTER STATION, SUBSCRIPT INDICATES SYSTEM. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH ONE (1) CAT 5e RJ11 JACK. EXTEND CAT 5e VOICE CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. "#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.	NOTES (LOW VOLTAGE SYMBOL LEGEND):
FLOOR	■ 1V	PHONE OUTLET, FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. "#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.	1. THESE ARE STANDARD SYMBOLS AND MAY NO DRAWINGS. HOWEVER, WHEREVER THIS SYM DRAWINGS, THE ITEM SHALL BE FURNISHED AS UNLESS NOTED OTHERWISE, MOUNTING HEIG CENTERLINE OF OUTLET. LOW VOLTAGE OUT MATCH THAT SHOWN ON THE ELECTRICAL SY MOUNTING HEIGHT INDICATED ON FLOOR PLATTHE PLAN TAKES PRECEDENT.
FLOOR	1D	DATA OUTLET, FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. "#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.	INSTALL RECEPTACLE AND VOICE/DATA OUTL WHERE SHOWN SIDE BY SIDE ON WALL, UNLE MULTIGANG BOX WITH VOLTAGE BARRIER.
FLOOR	1V/1D	COMBINATION PHONE & DATA OUTLET, FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. "#V/#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA (1D) AND (1) VOICE (1V) CABLES TO OUTLET LOCATION.	
1'-6" UON	—TV	WALL MOUNTED COMBINATION RECEPTACLE AND TV OUTLET WITH VOLTAGE BARRIER. PROVIDE WITH (1) 120V DUPLEX RECEPTACLE, (1) TYPE F COAX CONNECTOR WITH RG6 COAX CABLE AND (1) CAT6 CABLE WITH RJ45 JACK TO NEAREST IDF OR SMC. USE RG11 COAX CABLE FOR RUNS GREATER THAN 200FT. TYPICAL FOR DIGITAL SIGNAGE DISPLAY MONITOR ALSO.	
		"R" = EXTEND RG6 COAX CATV CABLE TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. "+##" = REFERS TO DIFFERENT ABOVE FLOOR MOUNTING HEIGHT. CONTRACTOR SHALL VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT TO AVOID CONFLICT WITH WALL TV MOUNTS AND/OR CASEWORK.	
CEILING	WAP 1D	LAN SYSTEM, WIRELESS ACCESS POINT (WAP): FIELD MOUNTABLE CAT6A RJ45 PLUG SHALL BE UTILIZED FOR CONNECTION TO DEVICE. EXTEND ONE (1) CAT 6 HORIZONTAL CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. WAP DEVICE SHALL BE PROVIDED BY OWNER AND CONNECTED/INSTALLED BY CONTRACTOR.	
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.	SHEET LIST - LC SHEET NUMBER LV0.0 LOW VOLTAGE SYMBOL LEGENT
CEILING	C ID EXT.	FIXED SECURITY CAMERA - INTERIOR MOUNT. INSTALL FLUSH MOUNT SINGLE GANG OUTLET BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CAMERA DEVICE SHALL BE PROVIDED BY OWNER AND CONNECTED/INSTALLED BY OWNER.	LV0.1 LOW VOLTAGE DETAILS LV0.2 LOW VOLTAGE DETAILS LV0.3 DOOR ELEVATION AND DETAILS LV0.4 LOW VOLTAGE - SECURITY DETAILS
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION. "360" - INDICATES 360 DEGREE CAMERA TO BE CEILING MOUNTED. "EXT" - INDICATES EXTERIOR MOUNTED CAMERA. "AV" - FIXED AUDIO VISUAL SYSTEM CAMERA. REFER TO DETAILS FOR MORE INFORMATION.	LV0.5 LOW VOLTAGE SITE PLAN LV1.1 FIRST FLOOR PLAN - LOW VOLTAGE LV1.2 SECOND FLOOR PLAN - LOW VOLTAGE LV1.3 THIRD FLOOR PLAN - LOW VOLTAGE LV1.4 FOURTH FLOOR PLAN - LOW VOLTAGE LV2.1 ENLARGED PLANS - LOW VOLTAGE LV2.2 ENLARGED PLANS - LOW VOLTAGE LV2.2 ENLARGED PLANS - LOW VOLTAGE
WALL	C DEXT.	FIXED SECURITY CAMERA - INTERIOR MOUNT. INSTALL FLUSH MOUNT SINGLE GANG OUTLET BOX AND 3/4" CONDUIT, U.O.N., WITH CAT6A HORIZONTAL CABLING TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CAMERAS SHALL BE PROVIDED AND INSTALLED BY OWNER.	
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION. "180" - INDICATES 180 DEGREE CAMERA TO BE WALL MOUNTED. "EXT" - INDICATES EXTERIOR MOUNTED CAMERA. "AV" - FIXED AUDIO VISUAL SYSTEM CAMERA. REFER TO DETAILS FOR MORE INFORMATION.	
3'-10"	<u> </u>	INTERCOM SYSTEM CALL-IN STATION, WALL.	
	MS	INTERCOM SYSTEM MASTER STATION.	CONSTRUCTI
4'-0"	(A)	DESIGNATED DOOR TO BE PROVIDED WITH ACCESS CONTROL. REFER TO DOOR ELEVATIONS FOR ADDITIONAL INFORMATION. ACCESS CONTROL SYSTEM CARD READER. INSTALL WITH FLUSH MOUNT SINGLE GANG OUTLET BOX AND 1/2" C TO ACCESSIBLE CEILING SPACE.	S GAMES
	DC DC	"M" - INDICATES MULLION MOUNTED CARD READER. DOOR "AJAR" CONTACT. INSTALL 1/2" C IN DOOR FRAME TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT REQUIREMENTS WITH OWNER'S ACCESS CONTROL VENDOR.	NUMBI E-252
6'-0"	- D	MAGNETIC DOOR HOLDER, WALL. "F" = FLUSH MOUNTED.	ROFESS
	D WG	MAGNETIC DOOR HOLDER, FLOOR. DELAYED EGRESS ELOPEMENT CONTROL SYSTEM DOOR LOCATION. REFER TO DOOR ELEVATION DETAIL	PROJECT TITLE
6'-6"	DB	FOR ADDITIONAL INFORMATION. WIRELESS DOORBELL - WITH AUDIO VISUAL NOTIFIER, WALL MOUNT.	
3'-6"	DB	PUSHBUTTON, WALL.	John Knox
7'-6"	HPR	EMERGENCY CALL HIGH POWER REPEATER FOR SARA SYSTEM WIRELESS DEVICES. DEVICES SHALL BE PROVIDED AND INSTALLED BY OWNER OR OWNER'S SARA SYSTEM REPRESENTATIVE UNDER SEPARATE CONTRACT (NIC). CONTRACTOR SHALL COORDINATE HEIGHT AND INSTALL LOCATIONS WITH OWNER/VENDOR PRIOR TO ROUGH-IN AND SHALL PROVIDE A	COURTYARDS -
3	N OR E	120V CIRCUIT FOR SYSTEM DEVICES. EMERGENCY CALL STATION FOR SARA SYSTEM. AREA OR RESCUE BASE STATION/CONTROL PANEL FOR TWO-WAY COMMUNICATIONS.	SFC

GENERAL NOTES

THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THIS SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO ENTERLINE OF OUTLET. LOW VOLTAGE OUTLET BOX MOUNTING HEIGHTS SHALL MATCH THAT SHOWN ON THE ELECTRICAL SYMBOLS LEGEND PLAN. WHERE THE MOUNTING HEIGHT INDICATED ON FLOOR PLANS ARE DIFFERENT FROM THE LEGEND THE PLAN TAKES PRECEDENT. INSTALL RECEPTACLE AND VOICE/DATA OUTLET BOXES 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL, UNLESS INDICATED TO BE INSTALLED IN A

SHEET LIST - LOW VOLTAGE

LOW VOLTAGE SYMBOL LEGEND LOW VOLTAGE DETAILS LOW VOLTAGE DETAILS DOOR ELEVATION AND DETAILS LOW VOLTAGE - SECURITY DETAILS LOW VOLTAGE SITE PLAN FIRST FLOOR PLAN - LOW VOLTAGE SECOND FLOOR PLAN - LOW VOLTAGE THIRD FLOOR PLAN - LOW VOLTAGE FOURTH FLOOR PLAN - LOW VOLTAGE ENLARGED PLANS - LOW VOLTAGE ENLARGED PLANS - LOW VOLTAGE

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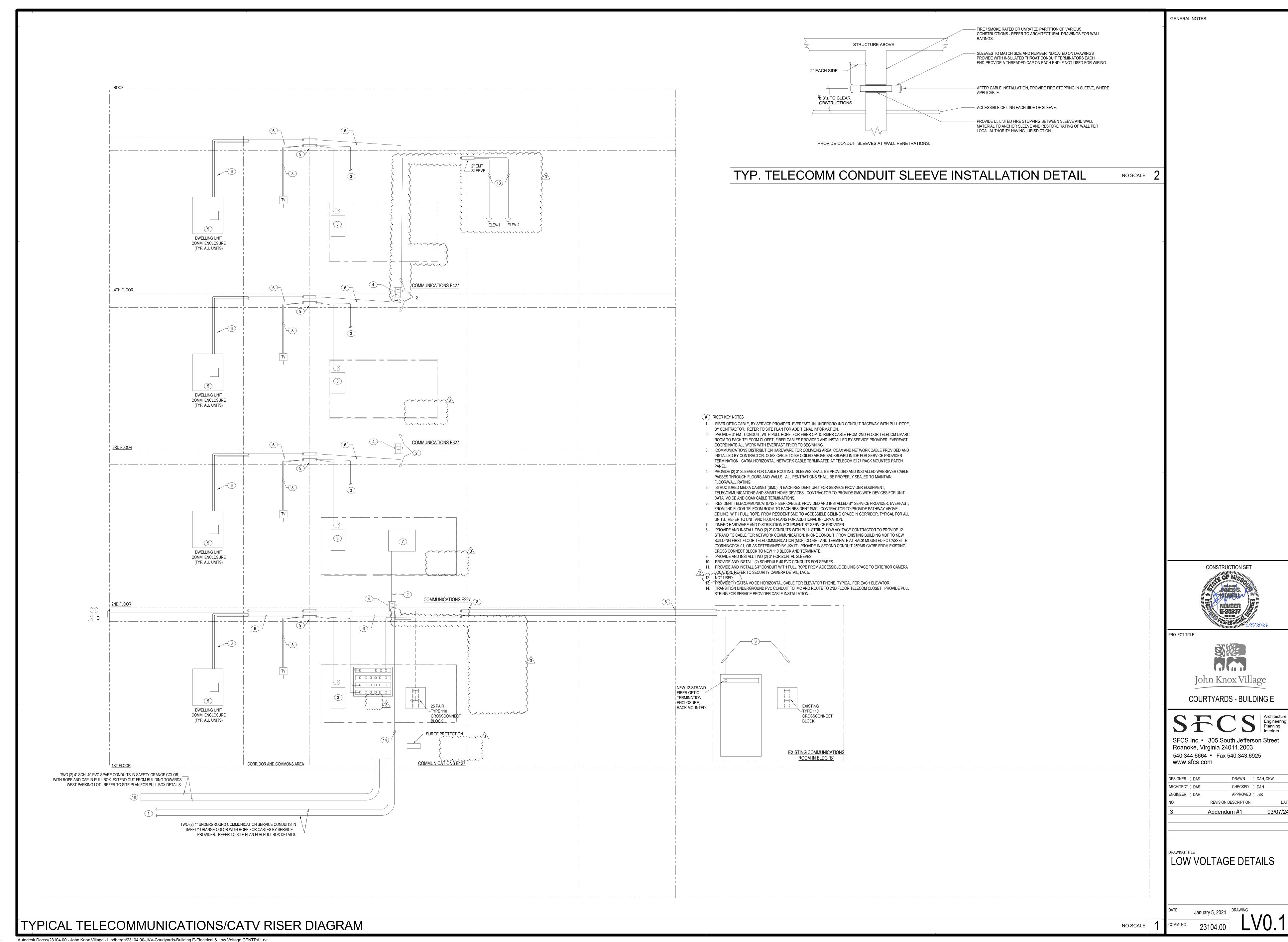


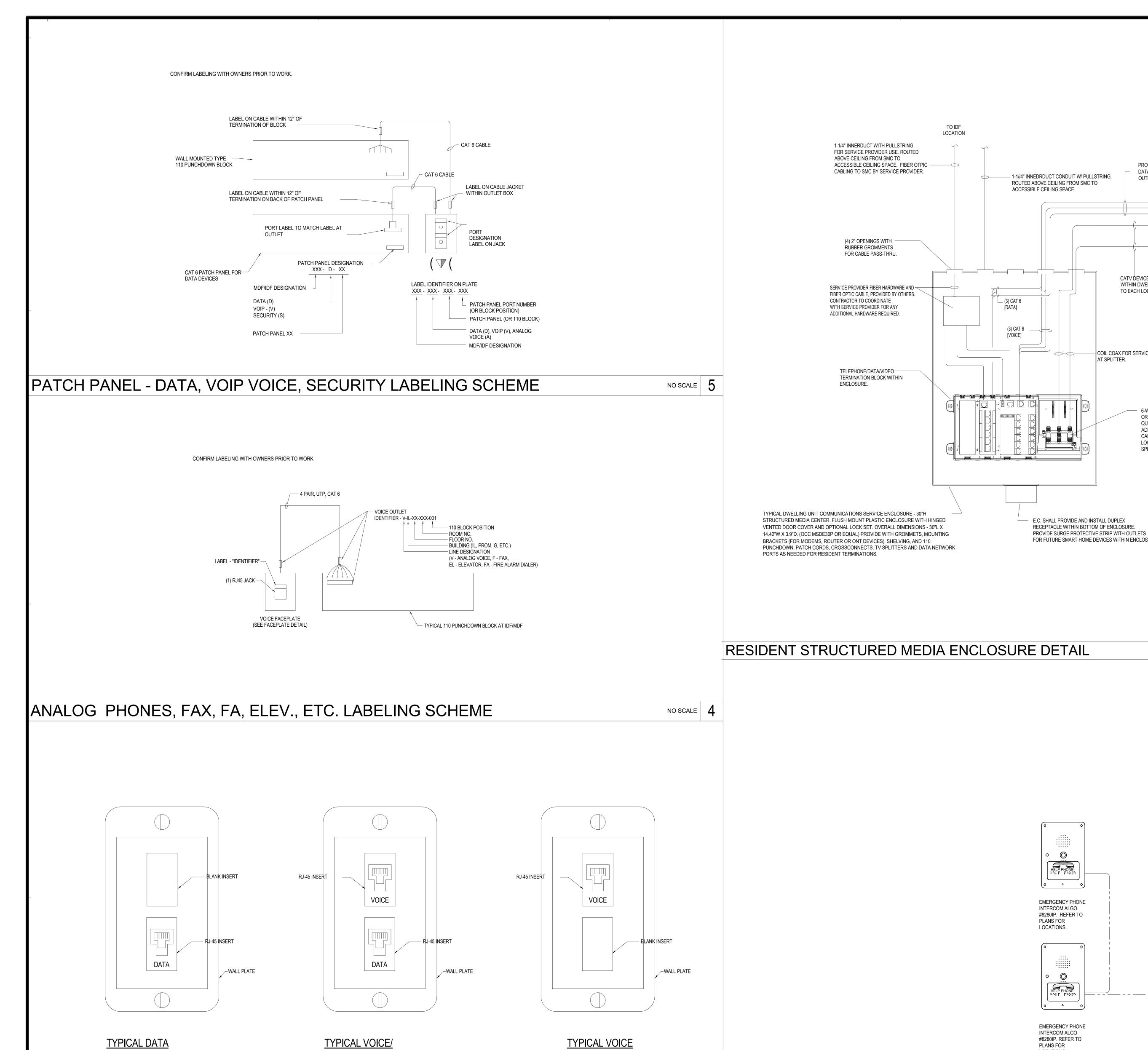
COURTYARDS - BUILDING E



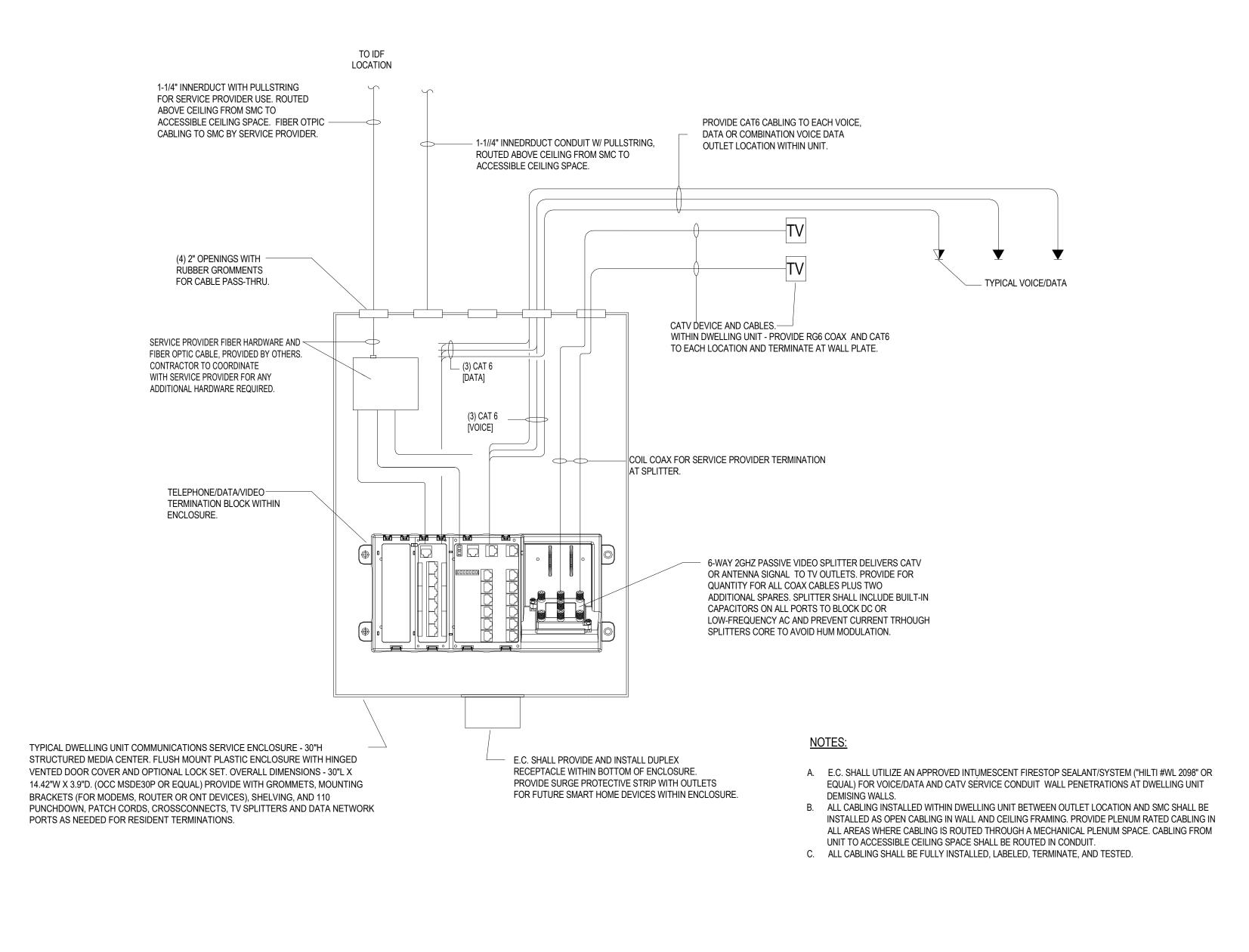
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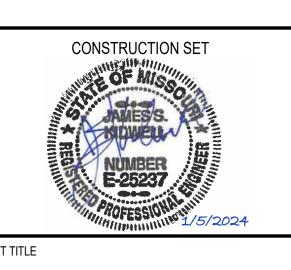
LOW VOLTAGE SYMBOL LEGEND





SCALE: NONE





NO SCALE

1. THE AREA OF RESCUE ASSISTANCE EMERGENCY

PRIOR TO ROUGH-IN.

LOW VOLTAGE POWER SUPPLY

PLANS FOR LOCATIONS.

COMMUNICATIONS SYSTEM. COORDINATE WITH SERVICE PROVIDER AND OWNER BEFORE BEGINNING ANY WORK. THE REMOTELY LOCATED AREA OF REFUGE CALL BOX STATION SHALL ALERT AT A 24/7 CONSTANTLY ATTENDED LOCATION APPROVED BY

OWNER. THE SYSTEM SHALL HAVE A TIMED AUTOMATIC

ATTENDED MONITORING LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION WHERE RESPONSIBLE PERSONNEL CAN INITIATE THE APPROPRIATE RESPONSE AND SHALL HAVE A DIAL-OUT CAPABILITY TO A MONITORING LOCATION

TWO-WAY COMMUNICATION SYSTEM SHALL BE LOCATED AT

WITH ASSOCIATED INSTRUCTIONAL SIGNAGE.

ENTRANCES AND AT EACH ELEVATOR LOBBY ALONG WITH ALONG

COMMUNICATIONS CAPABILITY TO CONNECT WITH A CONSTANTLY

OR 911. COORDINATE LOCATION OF CALL BOXES WITH OWNER/ARCHITECT

GENERAL NOTES

COURTYARDS - BUILDING E

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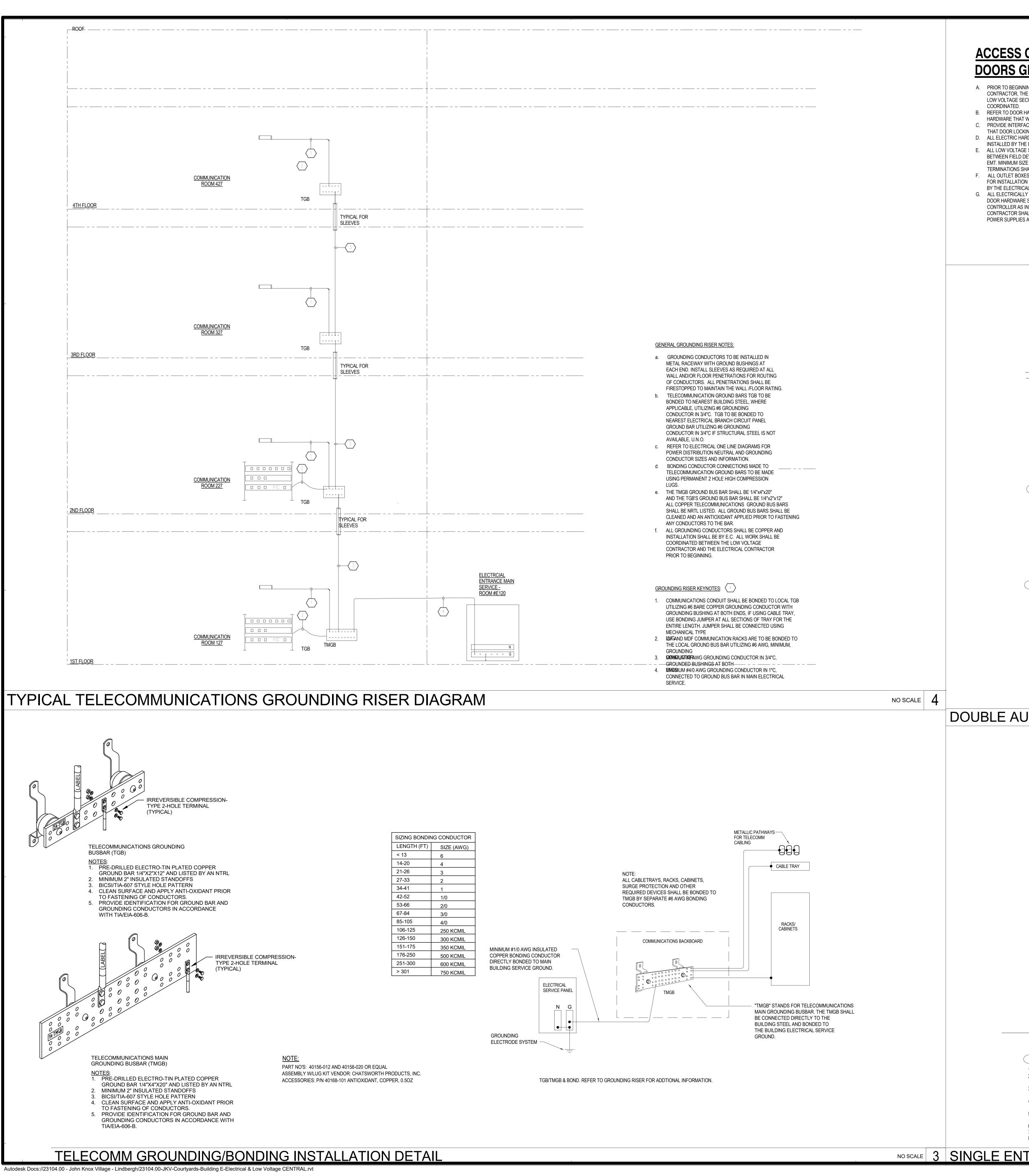
ARCHITECT : DAS CHECKED : DAH ENGINEER : DAH APPROVED ; JSK REVISION DESCRIPTION

LOW VOLTAGE DETAILS

NO SCALE

WALL PLATE

DATA WALL PLATE



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ACCESS CONTROL

- A. PRIOR TO BEGINNING ANY WORK A MEETING SHALL BE HELD WITH THE GENERAL CONTRACTOR, THE ELECTRICAL CONTRACTOR, THE DOOR HARDWARE SUPPLIER AND THE LOW VOLTAGE SECURITY CONTRACTOR TO CONFIRM ALL WORK HAS BEEN PROPERLY
- B. REFER TO DOOR HARDWARE SPECIFICATION 087100 FOR INFORMATION PERTAINING TO
- HARDWARE THAT WILL BE PROVIDED BY DOOR HARDWARE SUPPLIER. . PROVIDE INTERFACE BETWEEN ACCESS CONTROL SYSTEM AND BUILDING FIRE ALARM SUCH
- THAT DOOR LOCKING DEVICES RELEASE UPON ACTIVATION OF FIRE ALARM CONDITION. D. ALL ELECTRIC HARDWARE REQUIRED FOR CONTROL OF DOORS SHALL BE PROVIDED AND
- INSTALLED BY THE HARDWARE SUPPLIER. E. ALL LOW VOLTAGE SIGNAL, POWER AND MONITOR WIRING INSTALLED AT EACH DOOR BETWEEN FIELD DEVICES AND DOOR CONTROL PANEL AT EACH DOOR SHALL BE INSTALLED IN EMT. MINIMUM SIZE 3/4"C, UNLESS OTHERWISE NOTED. ALL WIRING AND WIRING
- TERMINATIONS SHALL BE BY THE LOW VOLTAGE ACCESS CONTROL SECURITY CONTRACTOR. F. ALL OUTLET BOXES, CONDUITS (PROVIDED WITH PULL STRING), AND BACKBOXES REQUIRED FOR INSTALLATION OF THE ACCESS CONTROL SYSTEMS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- G. ALL ELECTRICALLY CONTROLLED HARDWARE WILL BE SUPPLIED TO OPERATE AT 24VDC. DOOR HARDWARE SUPPLIER SHALL SUPPLY THE POWER SUPPLIES AND THE DOOR CONTROLLER AS INDICATED IN THE SPECIFICATIONS FOR THE REQUIRED 24VDC. ELECTRICAL CONTRACTOR SHALL EXTEND 120VAC BRANCH CIRCUIT TO ALL DOOR CONTROLLERS AND POWER SUPPLIES AS SHOWN.

ACCESS CONTROL DOOR

DOOR GROUP A

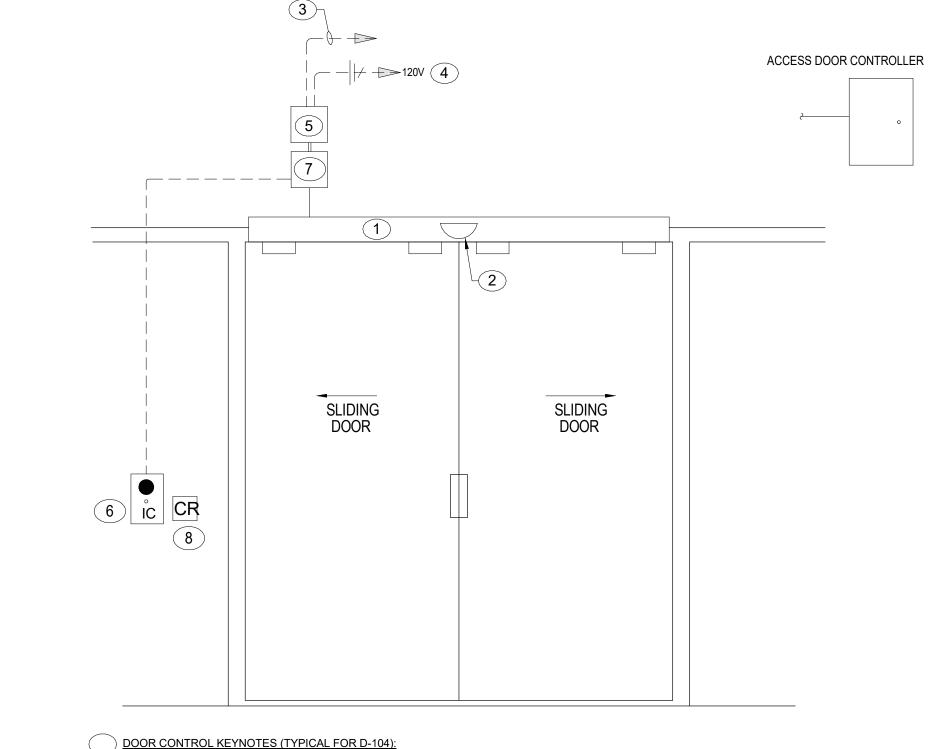
1. EXTERIOR DOOR SECURED FROM ENTRY BY MAGNETIC DOOR LOCK. DOOR IS NORMALLY CLOSED LOCKED.

GENERAL NOTES

- 2. PRESENTATION OF CARD AT READER RELEASES MAGNETIC LOCK PERMITTING INGRESS BY DOOR PULL.
- 3. PUSH TO EXIT BUTTON ON INTERIOR, RELEASES MAGNETIC LOCK PERMITTING EGRESS.
- 4. DOOR POSITION SWITCH FOR DOOR MONITORING. IN THE EVENT OF LOST POWER THE DOOR UNLOCKS AND PERMITS EGRESS. AFTER INTERCOM COMMUNICATION WITH SECURITY GUARD WHO SHALL PERMIT ENTRANCE BY REMOTE RELEASE.

DOOR GROUP B

- 1. DOUBLE SLIDING EXTERIOR ENTRANCE/EXIT DOOR SECURED FROM ENTRY ON TIME SCHEDULE FOR AFTER NORMAL BUSINESS HOURS.
- 2. IN UNSECURE MODE, DURING NORMAL BUSINESS HOURS THE DOOR AUTOMATICALLY OPENS BY ACTIVATION OF SENSOR SUPPLIED WITH DOOR
- 3. IN SECURE MODE, DOOR REMAINS CLOSED UNTIL CREDENTIALS HAVE BEEN PRESENTED ALONG WITH SENSOR ACTIVATION OR AFTER INTERCOM COMMUNICATION WITH SECURITY GUARD WHO SHALL PERMIT ENTRANCE BY REMOTE RELEASE.



DOOR CONTROL KEYNOTES (TYPICAL FOR D-104):

- CONCEALED IN 3/4" C. COORDINATE ALL REQUIREMENTS WITH DOOR HARDWARE SUPPLIER PRIOR TO BEGINNING ANY WORK. DOOR MOTION SENSOR PROVIDED AND INSTALLED BY DOOR HARDWARE SUPPLIER. DOORS TO BE SECURED FROM ENTRY ON TIME
- POWER SUPPLY BOX, LOCATED NEAR DOOR, ABOVE CEILING ON THE SECURE SIDE.
- ALGO AUDIO INTERCOM. INTERCOM SHALL INCLUDE DOOR RELEASE FROM REMOTE SECURITY LOCATION AFTER COMMUNICATION HAS BEEN ESTABLISHED WITH SECURITY DESK. INTERCOM SYSTEM WITH BACKBOX INCLUDED, MOUNTED AT 48"AFF MAX. FOR CALL BUTTON ON PROVIDER. ALL LOW VOLTAGE WIRING FOR RELAY OUTPUT TO ELECTRIC LOCKS, ETC. TO BE PROVIDED, INSTALLED AND TERMINATED B
- 6X6 JUNCTION BOX ABOVE ACCESSIBLE CEILING.
- 4X4 BOX WITH SINGLE GANG PLASTER RING CENTERED AT 44" AFF FOR CARD READER ON THE UNSECURED SIDE, PROVIDE 3/4" EMT CONDUIT AND EXTEND LOW VOLTAGE WIRING FROM CARD READER TO THE POWER SUPPLY PANEL.

DOUBLE AUTO SLIDING DOORS-WITH AUTO OPERATOR

NO SCALE

ACCESS DOOR CONTROLLER

DOOR CONTROL KEYNOTES (TYPICAL FOR DOORS D-107A, D-125, D-128A:

- 1. POWER AND/OR CONTROL WIRING TO SYSTEM CONTROL PANEL VIA SEPARTE 3/4" EMT CONDUIT PATHWAYS IN ACCESSIBLE CEILING. 2. POWER SUPPLY FOR ELECTRONIC HARDWARE, PROVIDED BY DOOR HARDWARE SUPPLIER. 120V BRANCH CIRCUIT IN 3/4" EMT CONDUIT PATHWAY IN
- ACCESSIBLE CEILINGS BY ELECTRICAL CONTRACTOR. 3. CONCEALED DOOR POSITION SWITCH AND 3/4" EMT CONDUIT - SWITCH WITH SPST CONTACT AND MAGNET SHALL BE PROVIDED BY DOOR HARDWARE
- SUPPLIER AND INSTALLED BY LOW VOLTAGE CONTRACTOR. LOW VOLTAGE WIRING AND TERMINATION BY LOW VOLTAGE CONTRACTOR. 4. 4X4 BOX WITH SINGLE GANG PLASTER RING CENTERED AT 44" AFF FOR CARD READER ON THE UNSECURED SIDE. PROVIDE 3/4" EMT CONDUIT AND EXTEND LOW VOLTAGE WIRING FROM CARD READER TO THE POWER SUPPLY PANEL.
- 5. REQUEST TO EXIT PUSHBUTTON ON SECURED SIDE EGRESS WILL RELEASE ELECTRIFIED MAGNETIC LOCK AND PERMIT EXIT, PROVIDED AND INSTALLED BY DOOR HARDWARE SUPPLIER. LOW VOLTAGE WIRING INSTALLED AND TERMINATED BY LOW VOLTAGE CONTRACTOR.
- 6. AUDIO INTERCOM ON UNSECURED SIDE OF DOOR. PROVIDE WITH BACK BOX AND CONDUIT STUB UP WITH PULL STRING FOR SERVICE PROVIDER USE. 7. 6X6 JUNCTION BOX ABOVE ACCESSIBLE CEILING. MAGNETIC LOCK.

DETAILS

DOOR ELEVATION AND

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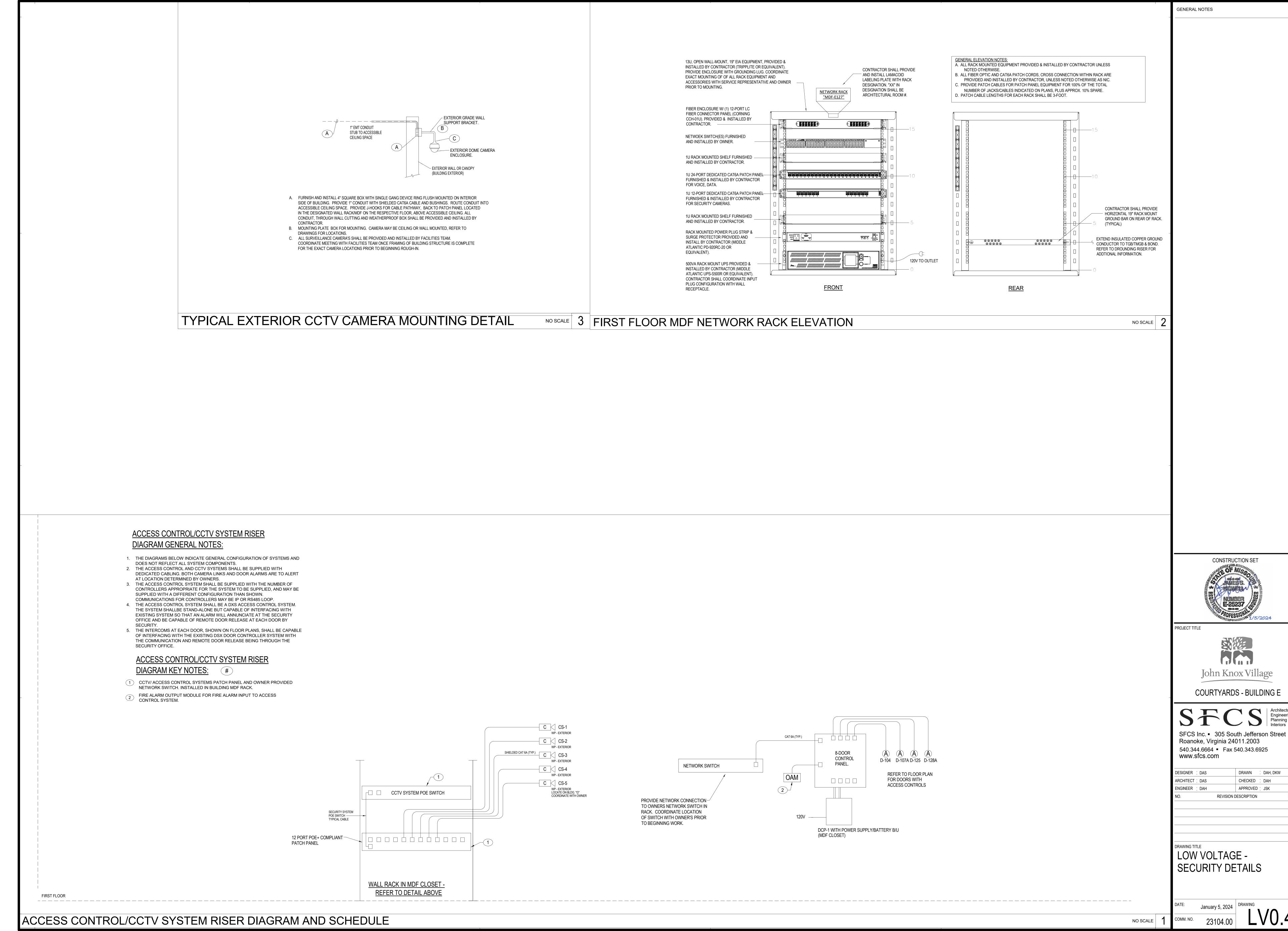
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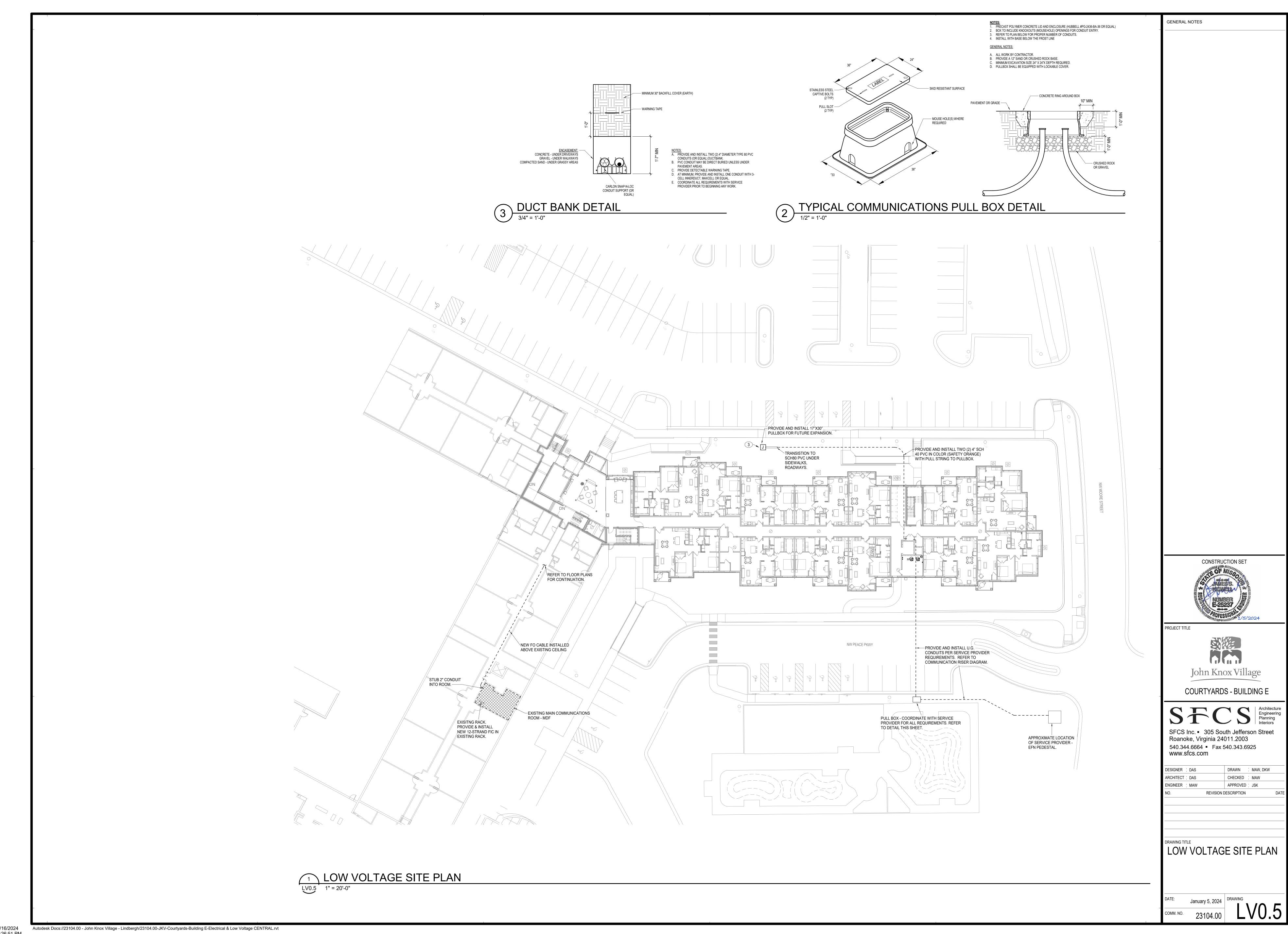
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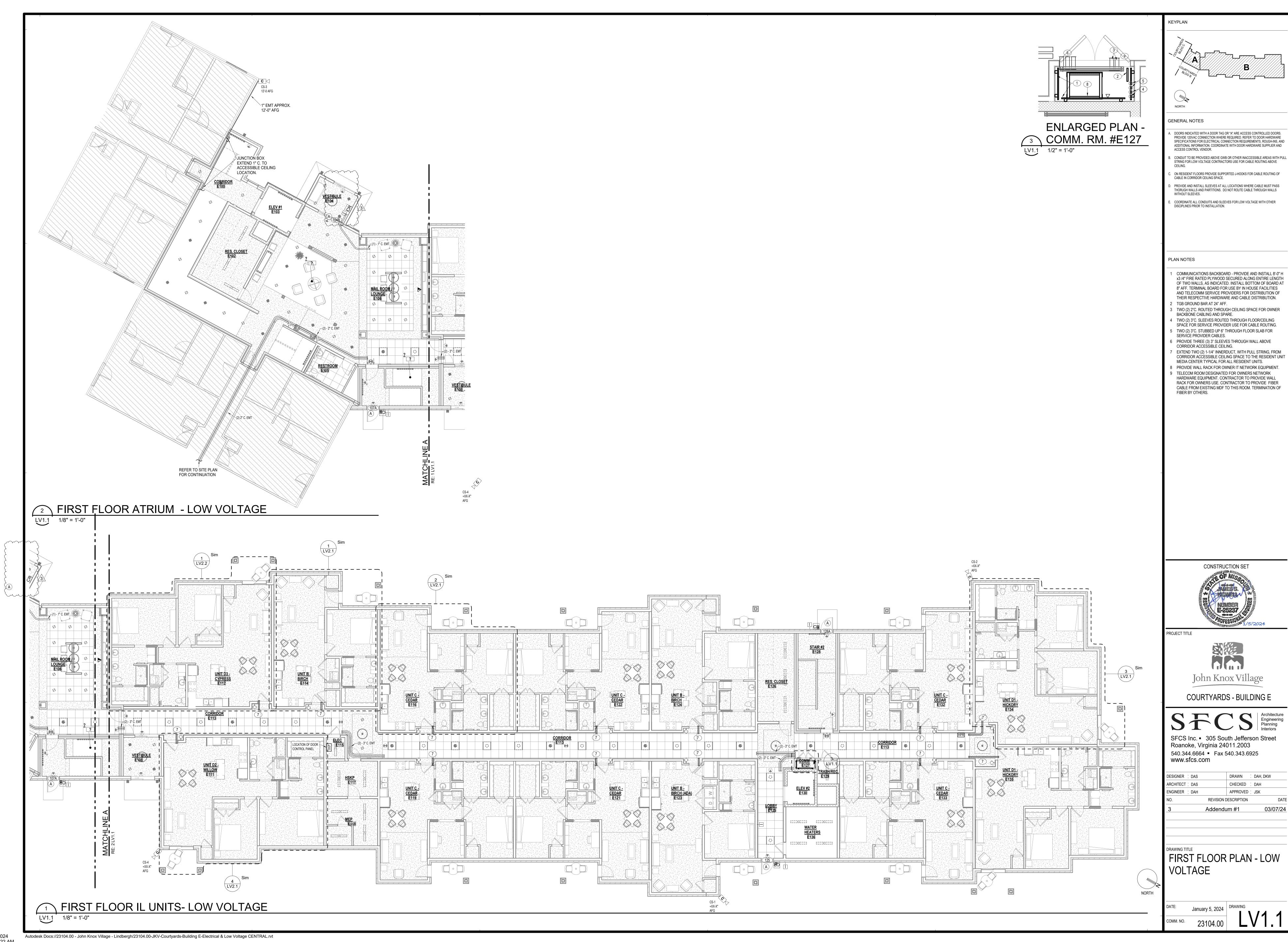
NO SCALE 3 SINGLE ENTRY DOOR W/CARD READER AND INTERCOM

NO SCALE

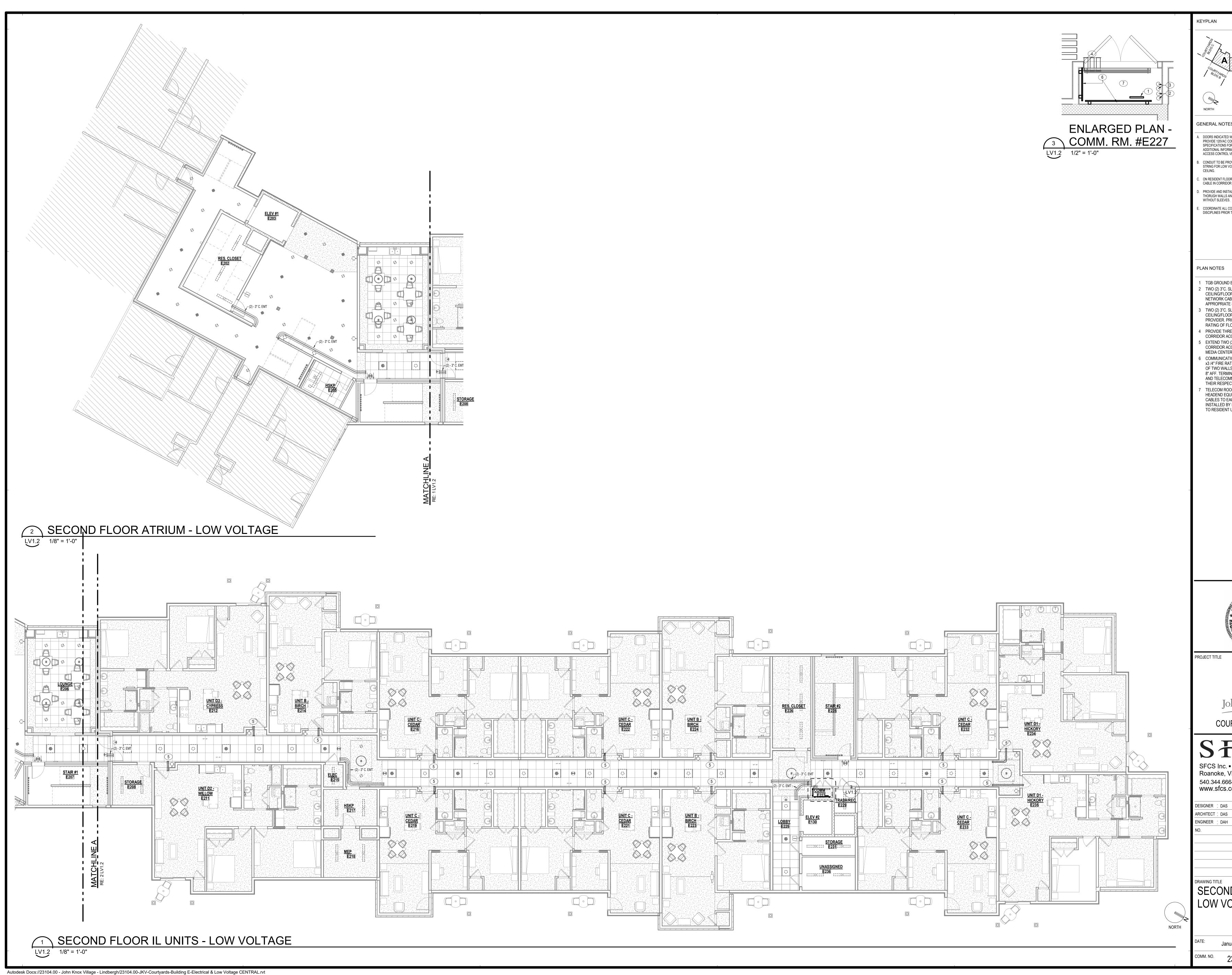




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GENERAL NOTES

DOORS INDICATED WITH A DOOR TAG OR "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS FOR ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.

 CONDUIT TO BE PROVIDED ABOVE GWB OR OTHER INACCESSIBLE AREAS WITH PULL STRING FOR LOW VOLTAGE CONTRACTORS USE FOR CABLE ROUTING ABOVE ON RESIDENT FLOORS PROVIDE SUPPORTED J-HOOKS FOR CABLE ROUTING OF CABLE IN CORRIDOR CEILING SPACE.

 PROVIDE AND INSTALL SLEEVES AT ALL LOCATIONS WHERE CABLE MUST PASS THORUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES. E. COORDINATE ALL CONDUITS AND SLEEVES FOR LOW VOLTAGE WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.

1 TGB GROUND BAR AT 24" AFF.

2 TWO (2) 3"C. SLEEVES STUBBED UP 6" A.F.F THROUGH CEILING/FLOOR SLAB TO LEVEL ABOVE/BELOW FOR FACILITY NETWORK CABLING OR SERVICE PROVIDER CABLING. PROVIDE APPROPRIATE SEALANT TO MAINTAIN RATING OF FLOOR. 3 TWO (2) 3"C. SLEEVES STUBBED UP 6" A.F.F THROUGH

CEILING/FLOOR SLAB TO LEVEL ABOVE/BELOW FOR SERVICE PROVIDER. PROVIDE APPROPRIATE SEALANT TO MAINTAIN RATING OF FLOOR. 4 PROVIDE THREE (3) 3" SLEEVES THROUGH WALL ABOVE

CORRIDOR ACCESSIBLE CEILING. 5 EXTEND TWO (2) 1-1/4" INNERDUCT, WITH PULL STRING, FROM CORRIDOR ACCESSIBLE CEILING SPACE TO THE RESIDENT UNIT MEDIA CENTER TYPICAL FOR ALL RESIDENT UNITS. 6 COMMUNICATIONS BACKBOARD - PROVIDE AND INSTALL 8'-0" H x3 /4" FIRE RATED PLYWOOD SECURED ALONG ENTIRE LENGTH OF TWO WALLS, AS INDICATED. INSTALL BOTTOM OF BOARD AT 8" AFF. TERMINAL BOARD FOR USE BY IN HOUSE FACILITIES AND TELECOMM SERVICE PROVIDERS FOR DISTRIBUTION OF THEIR RESPECTIVE HARDWARE AND CABLE DISTRIBUTION. TELECOM ROOM DESIGNATED FOR EVERAST DEMARC

HEADEND EQUIPMENT AND ORIGINATION POINT FOR FIBER CABLES TO EACH RESIDENT SMC. CABLE TO BE PROVIDED AND INSTALLED BY EVERFAST SERVICE PROVIDER FROM HEADEND TO RESIDENT UNIT AND TERMINATED IN SMC.

CONSTRUCTION SET



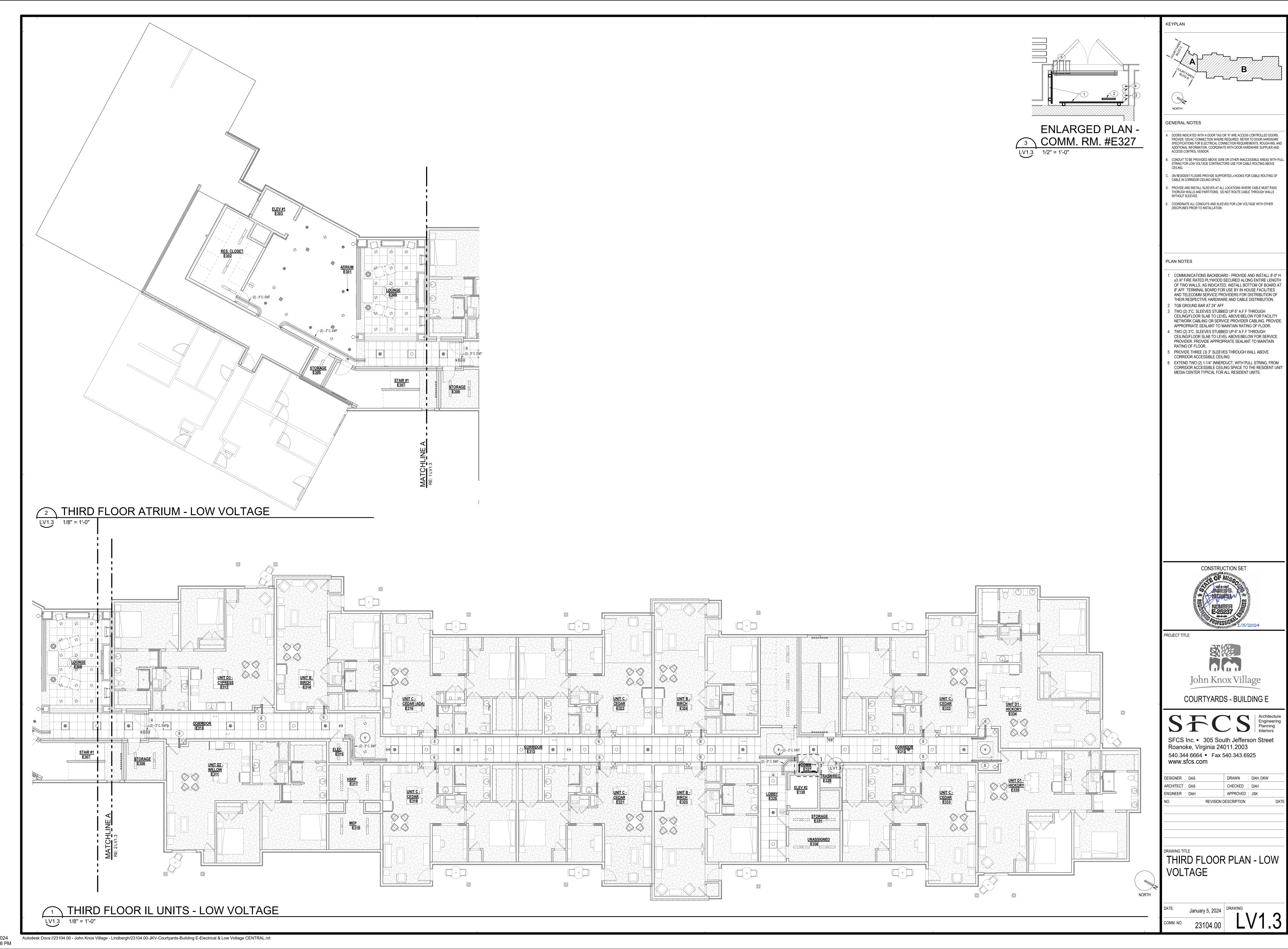
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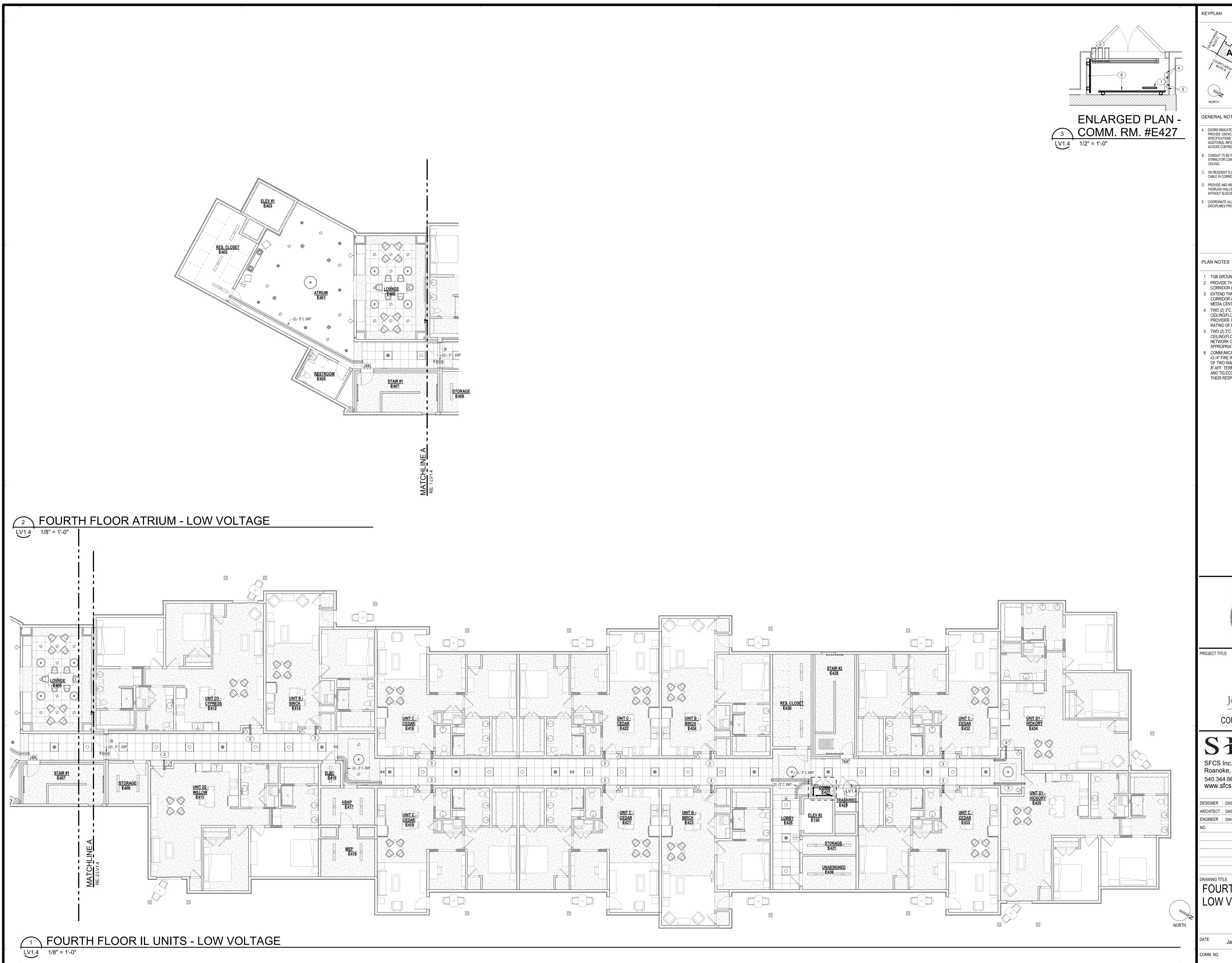
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SECOND FLOOR PLAN -LOW VOLTAGE



2/16/2



NORTH

GENERAL NOTES

DOORS INDICATED WITH A DOOR TAG OR "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS FOR ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.

CONDUIT TO BE PROVIDED ABOVE GWB OR OTHER INACCESSIBLE AREAS WITH PULL STRING FOR LOW VOLTAGE CONTRACTORS USE FOR CABLE ROUTING ABOVE

ON RESIDENT FLOORS PROVIDE SUPPORTED J-HOOKS FOR CABLE ROUTING OF CABLE IN CORRIDOR CEILING SPACE. PROVIDE AND INSTALL SLEEVES AT ALL LOCATIONS WHERE CABLE MUST PASS THORUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES.

E. COORDINATE ALL CONDUITS AND SLEEVES FOR LOW VOLTAGE WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.

PLAN NOTES

1 TGB GROUND BAR AT 24" AFF. 2 PROVIDE THREE (3) 3" SLEEVES THROUGH WALL ABOVE

CORRIDOR ACCESSIBLE CEILING. 3 EXTEND TWO (2) 1-1/4" INNERDUCT, WITH PULL STRING, FROM CORRIDOR ACCESSIBLE CEILING SPACE TO THE RESIDENT UNIT MEDIA CENTER TYPICAL FOR ALL RESIDENT UNITS. 4 TWO (2) 3"C. SLEEVES STUBBED UP 6" A.F.F THROUGH

CEILING/FLOOR SLAB TO LEVEL ABOVE/BELOW FOR SERVICE

PROVIDER. PROVIDE APPROPRIATE SEALANT TO MAINTAIN RATING OF FLOOR. TWO (2) 3"C. SLEEVES STUBBED UP 6" A.F.F THROUGH CEILING/FLOOR SLAB TO LEVEL ABOVE/BELOW FOR FACILITY NETWORK CABLING OR SERVICE PROVIDER CABLING. PROVIDE APPROPRIATE SEALANT TO MAINTAIN RATING OF FLOOR. 6 COMMUNICATIONS BACKBOARD - PROVIDE AND INSTALL 8'-0" H x3 /4" FIRE RATED PLYWOOD SECURED ALONG ENTIRE LENGTH OF TWO WALLS, AS INDICATED. INSTALL BOTTOM OF BOARD AT 8" AFF. TERMINAL BOARD FOR USE BY IN HOUSE FACILITIES AND TELECOMM SERVICE PROVIDERS FOR DISTRIBUTION OF THEIR RESPECTIVE HARDWARE AND CABLE DISTRIBUTION.

CONSTRUCTION SET

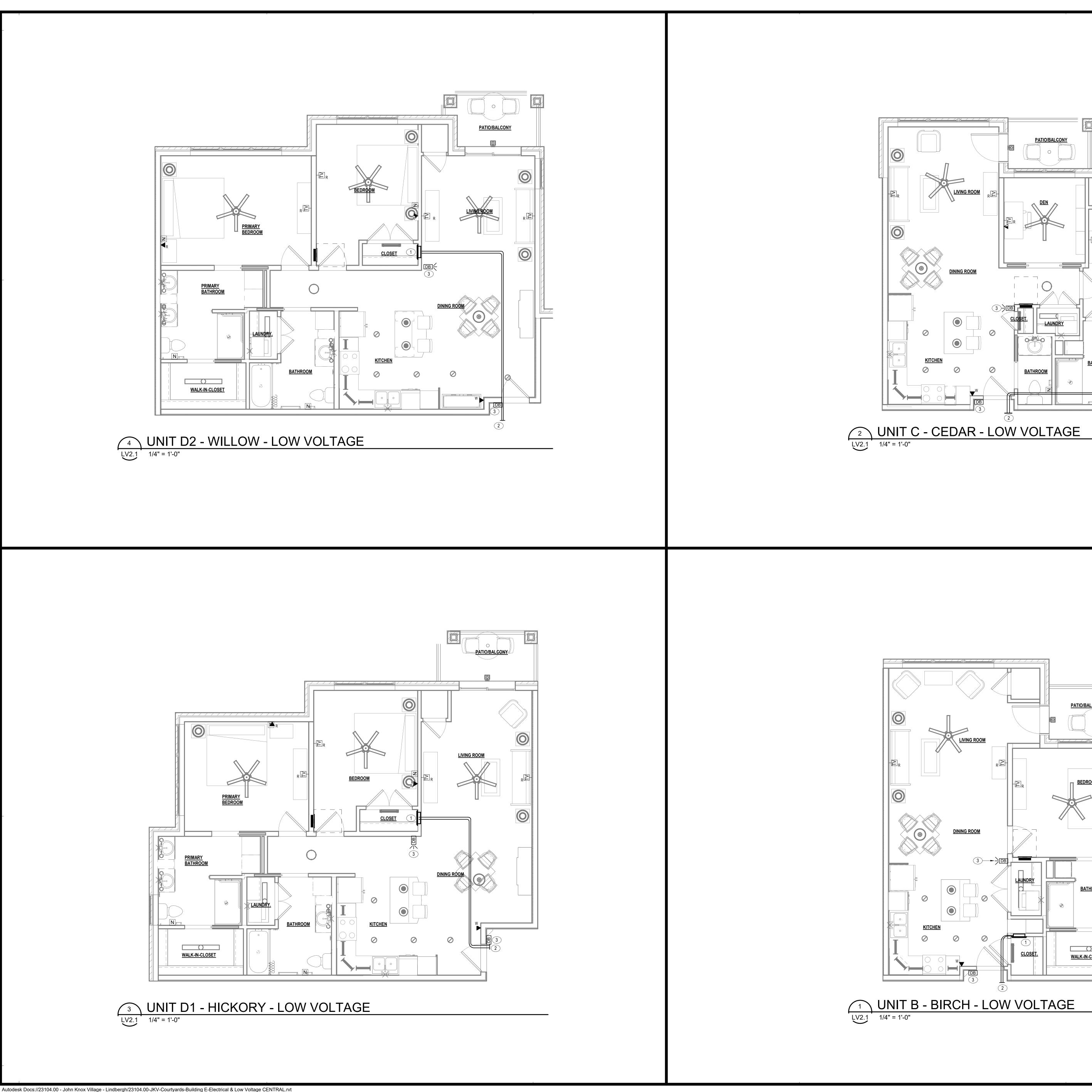
John Knox Village

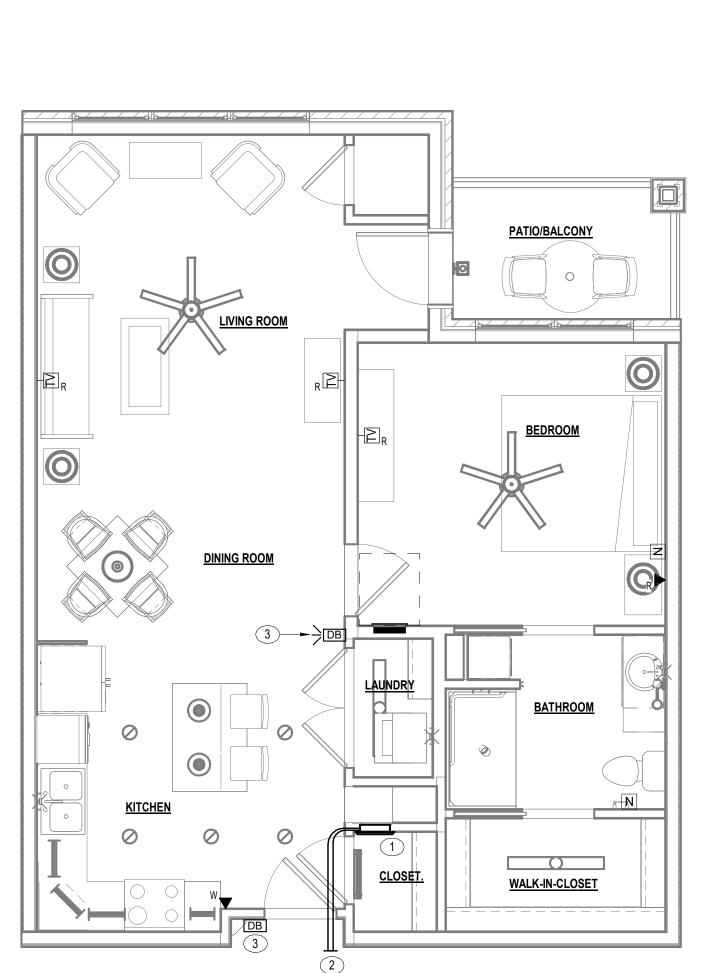
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FOURTH FLOOR PLAN -LOW VOLTAGE





1 RESIDENTIAL COMMUNICATIONS SERVICE ENCLOSURE.
ELECTRICAL CONTRACTOR TO PROVIDE DUPLEX RECEPTACLE
(GFCI, WHERE REQUIRED BY CODE) FOR INSTALLATION
ENCLOSURE AND CONNECT TO LOCAL 120V CIRCUIT.
COORDINATE WITH LOW VOLTAGE CONTRACTOR.

2 (2) 1-1/4" INNERDUCT EXTENDED, FROM SMC ENCLOSURE, ABOVE CEILING TO ACCESSIBLE CEILING SPACE IN CORRIDOR. PROVIDE PULL STRING IN CONDUITS FROM SMC ENCLOSURE TO STUB OUTS ABOVE CEILING.

3 PROVIDE HONEYWELL SERIES 3 PORTABLE WIRELESS WITH PUSHBUTTON DOORBELL SYSTEM. INSTALL BOTH PUSHBUTTON AND DOORBELL USING BRACKETS, ANCHORS AND SCREWS. PUSHBUTTON AT APPROX. 3'-6" AFF, DOORBELL TO BE INSTALLED ON WALL NEAR ENTRY AT APPROX. 6'-6" AFF.

PLAN NOTES

GENERAL NOTES

A. COORDINATE ROUTING OF INNERDUCT ABOVE CEILING WITH OTHER DISCIPLINES PRIOR TO BEGINNING WORK.

CONSTRUCTION SET

PROJECT TITLE



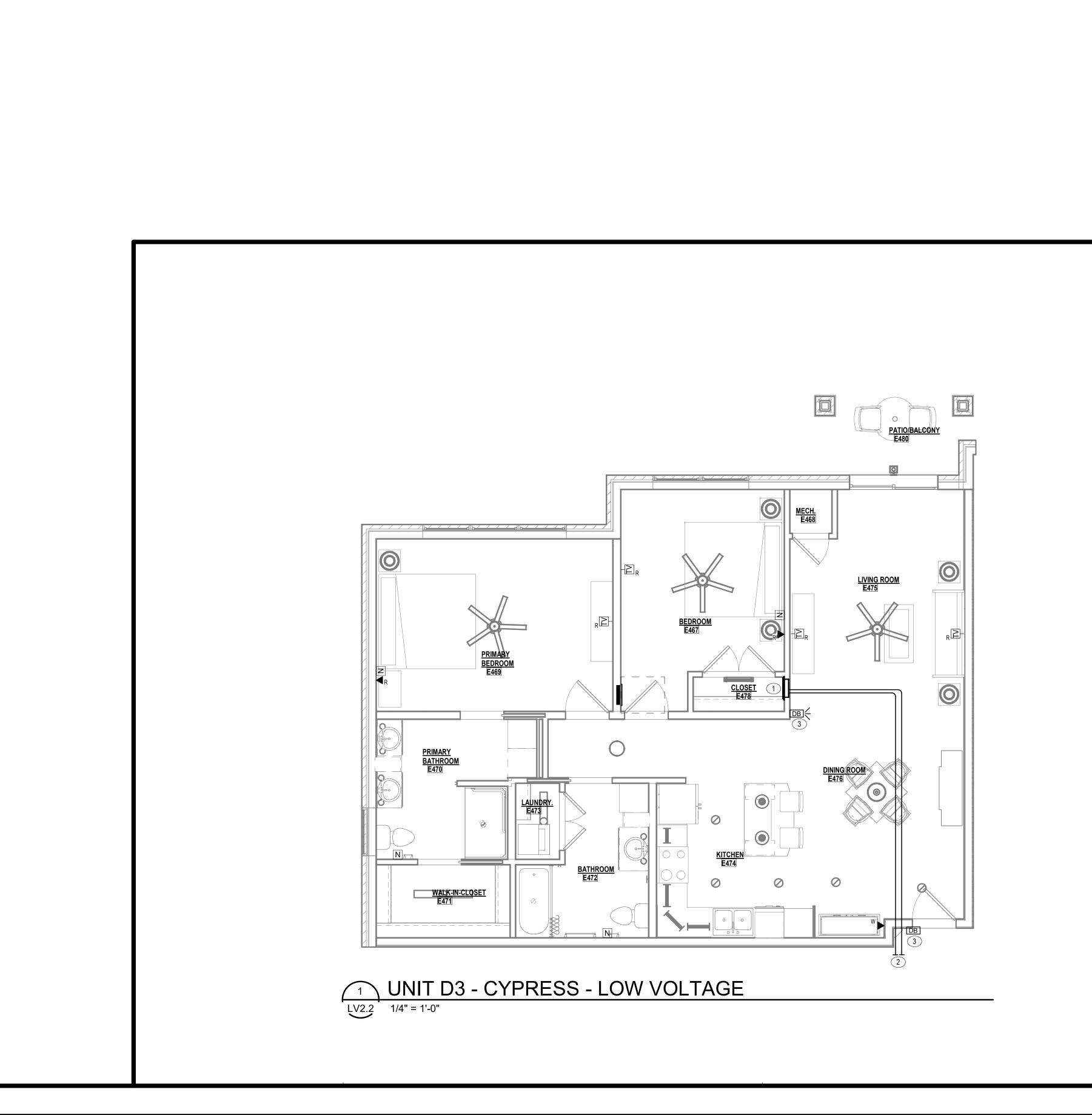
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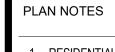
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ARCHITECT : DAS	CHECKED : DAH	
ENGINEER : DAH	APPROVED : JSK	
NO. REVISION	DESCRIPTION	DAT

ENLARGED PLANS - LOW VOLTAGE

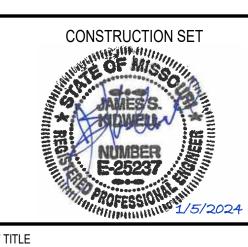




1 RESIDENTIAL COMMUNICATIONS SERVICE ENCLOSURE.
ELECTRICAL CONTRACTOR TO PROVIDE DUPLEX RECEPTACLE
(GFCI, WHERE REQUIRED BY CODE) FOR INSTALLATION
ENCLOSURE AND CONNECT TO LOCAL 120V CIRCUIT.
COORDINATE WITH LOW VOLTAGE CONTRACTOR.

A. COORDINATE ROUTING OF INNERDUCT ABOVE CEILING WITH OTHER DISCIPLINES PRIOR TO BEGINNING WORK.

COORDINATE WITH LOW VOLTAGE CONTRACTOR.
 (2) 1-1/4" INNERDUCT EXTENDED, FROM SMC ENCLOSURE,
ABOVE CEILING TO ACCESSIBLE CEILING SPACE IN CORRIDOR.
PROVIDE PULL STRING IN CONDUITS FROM SMC ENCLOSURE
TO STUB OUTS ABOVE CEILING.
 PROVIDE HONEYWELL SERIES 3 PORTABLE WIRELESS WITH
PUSHBUTTON DOORBELL SYSTEM. INSTALL BOTH
PUSHBUTTON AND DOORBELL USING BRACKETS, ANCHORS
AND SCREWS. PUSHBUTTON AT APPROX. 3'-6" AFF, DOORBELL
TO BE INSTALLED ON WALL NEAR ENTRY AT APPROX. 6'-6" AFF.



PROJECT TITLE



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ARCHITECT : DAS	CHECKED : DAH	
ENGINEER : DAH	APPROVED : JSK	
NO.	REVISION DESCRIPTION	

ENLARGED PLANS - LOW VOLTAGE