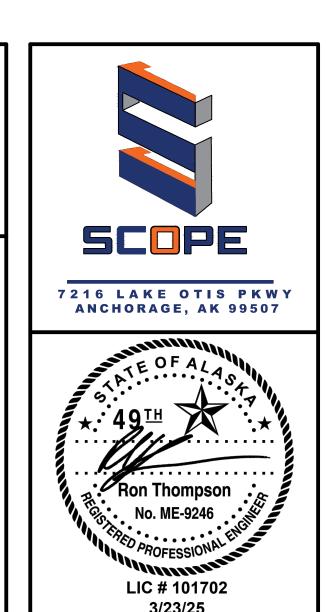
				- SANITARY SEWER		
AAV	AIR AUTOMATIC AIR VENT	LAV LAVATORY LF LINEAL FEET		- VENT PIPING	$\langle \mathcal{S} \rangle$	FLOOR OR YARD CLEANO
	ABOVE AMERICANS WITH DISABILITIES ACT			DOMESTIC COLD WATER		FLOOR DRAIN
	ACCESS DOOR ABOVE FINISHED FLOOR	MBH THOUSAND BTUH MU BOILER MAKEUP WATER			T	THERMOSTAT
AFG	ABOVE FINISHED GRADE	MOD MOTOR OPERATED DAMPER		 DOMESTIC HOT WATER 	TS	DOC TEMPERATURE SEN
AL .	AS HIGH AS POSSIBLE ALUMINUM	MPG MEDIUM PRESSURE GAS MTD MOUNTED		PIPE UP	TS	DOC TEMPERATURE SEN
	AMPERES AIR PRESSURE DROP		С	PIPE DOWN	S	SENSOR
ARCH	ARCHITECTURAL	NC NOISE CRITERIA N. C. NORMALLY CLOSED		– TEE UP	Е	EMERGENCY SHUT-OFF S
	BACKDRAFT DAMPER	NP NON POTABLE N. O. NORMALLY OPEN				
	BUILDING BACK IRON	NTS NOT TO SCALE		– TEE DOWN		SUPPLY/COMBUSTION AII
	BOTTOM OF DUCT			CAP		
BTUH	BRITISH THERMAL UNIT/HOUR	O/A OUTSIDE AIR	——————————————————————————————————————	– UNION		
	COMBUSTION AIR	OC ON CENTER OD OVERFLOW DRAIN		DIRECTION OF FLOW		EXHAUST AIR
	CONDENSATE CAPACITY	ON OVERFLOW NOZZLE OW OILY WASTE				
	CUBIC FEET PER MINUTE CIRCULATING			– BALL VALVE		
CLG	CEILING	PD PRESSURE DROP		– 2-WAY CONTROL VALVE		ROUND DUCT
CO	CONTINUED CLEANOUT	PE POLYETHYLENE PIPE PG PROPYLENE GLYCOL		- 3-WAY CONTROL VALVE		
CW	COPPER COLD WATER	PH PHASE PSI POUND PER SQUARE INCH				VOLUME DAMPER
CLW	CLEAN WATER(AFTER RO FILTER	PSIG POUNDS PER SQUARE INCH GAUG	SE — — —	- THERMOSTATIC MIXING VALVE		VOLOWIE DAMI EK
	DIAMETER					
DEG	DECIBELS DEGREE	R/A RETURN AIR RPM REVOLUTIONS PER MINUTE		- SWING CHECK VALVE		MOTORIZED CONTROL DA
	DIMENSION DOWN	RL RAIN LEADER		- SPRING CHECK VALVE		MOTORIZED CONTROL DI
DWG	DRAWING			BALANCE/SHUT-OFF VALVE		
E/A	EXHAUST AIR	S/A SUPPLY AIR SGS SNOWMELT GLYCOL SUPPLY			<i></i>	A COLUCTIO LINED DI IOTIVI
EAT	ENTERING AIR TEMPERATURE	SGR SNOWMELT GLYCOL RETURN SP STATIC PRESSURE		 PRESSURE REDUCING VALVE 	<i></i>	ACOUSTIC LINED DUCTW
	EFFICIENCY EXHAUST	SQ SQUARE SS SANITARY SEWER		PRESSURE/TEMP RELIEF VALVE		
	ENTERING WATER TEMPERATURE EXTERNAL STATIC PRESSURE	55 SANITARY SEWER	VB		12/24	DUCT SIZE
EGT	ENTERING GLYCOL TEMPERATURRE ENTERING		VB —	SPILL PROOF VACUUM BREAKER	12/24	DUCT SIZE
LIVI	LIVILIVING	TEMP TEMPERATURE TOD TOP OF DUCT		HOSE BIB		
	FEET	TOS TOP OF SLAB				EXTERNALLY INSULATED
FC	FEET PER MINUTE FORWARD CURVE	TP TRAP PRIMER TSP TOTAL STATIC PRESSURE		 WATER HAMMER ARRESTOR 		
	FARENHEIT FLOOR CLEANOUT	TSTAT THERMOSTAT TW TEMPERED WATER		- PUMP		
FD	FIRE DAMPER	TWC TEMPERED WATER CIRCULATED TYP. TYPICAL	I	END-OF-LINE CLEANOUT	2277777	TUDNING WANTS
	FIRE DEPARTMENT CONNECTION FLOOR	- 		- FILTER		TURNING VANES
		V VENT VEL VELOCITY				
	GAUGE GALLONS PER HOUR	V.T.R. VENT THRU ROOF		- METER	/	
GAL	GALLONS			– PIPE GUIDE		FLEXIBLE DUCT CONNEC
GPM	GALLONS PER MINUTE	W/ WITH W/O WITHOUT	×	– PIPE ANCHOR	, /	
UD	HEAD	W WASTE (SANITARY SEWER) WCO WALL CLEAN OUT	TH.		\sqrt{M}	FLEXIBLE DUCT
HW	HEAD HOT WATER	WG WATER GAUGE		- THERMOMETER		
HPS	HOT WATER CIRCULATION HIGH PRESSURE STEAM	WHA WATER HAMMER ARRESTOR WPD WATER PRESSURE DROP				ACCESS DOOR
HP	HORSEPOWER			 PRESSURE GAUGE W/ ISO COCK 		ACCESS DOON
IN	INCHES	YCO YARD CLEAN OUT		- STRAINER WITH BLOWDOWN		
				OTIVALIA MALLI DECIMONAM		POINT OF CONNECTION

PROJECT INFORMATION: NEW 9 UNIT APARTMENT COMPLEX



CIHA BAXTER - BUILDING
ANGHURAGE, AK 99504

PROJECT NR: 2025-15
DATE: 3/23/25
DRAWN BY: RJT
SCALE: AS NOTED

SHEET NUMBER:

REVISIONS:

 $M1.\Box$

GENERAL NOTES

PROJECT SHALL BE CONSTRUCTED TO THE 2021 UNIFORM PLUMBING CODE (UPC), 2021 INTERNATIONAL FUEL GAS CODE (IFGC). INTERNATIONAL MECHANICAL CODE 2021 AS ADOPTED AND AMENDED BY THE STATE OF ALASKA, THE INTERNATIONAL MECHANICAL CODE 2021 CHAPTERS 1-15 AND APPENDIX A, ARE ADOPTED BY REFERENCE TO REGULATE ALL OCCUPANCIES AND BUILDINGS, EXCEPT THAT THE IMC IS REVISED BY DELETING ALL THE REFERENCES TO THE INTERNATIONAL PLUMBING CODE, AND REPLACING WITH PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED FROM TIME TO TIME (WHICH MAY BE FOUND AT HTTPS://WWW.AKLEG.GOV/BASIS/AAC.ASP#8.63.010).

SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA STANDARDS.

ALL PIPING, DUCTWORK AND EQUIPMENT SHALL BE INSTALLED FOR SEISMIC EVENT IN ACCORDANCE WITH THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE AND ASCE 7.

CONTRACTOR SHALL PROVIDE THE OWNER WITH OPERATING AND MAINTENANCE MANUALS, TO INCLUDE MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, AND SCHEMATIC DIAGRAMS OF CONTROL SYSTEMS AS-BUILT, AS WELL AS A SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE.

PROVIDE ACCURATE PROJECT RECORD AS-BUILT DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.

PROVIDE CONTROL SYSTEM TO ACCOMPLISH THE SEQUENCE OF OPERATIONS. PROVIDE ALL CONTROLLERS, TEMPERATURE SENSORS, THERMOSTATS, CONTROL VALVES, CONTROL DAMPERS, ELECTRIC ACTUATORS, TRANSFORMERS, WIRING AND ASSOCIATED COMPONENTS. INSTALL ALL WIRING IN ACCORDANCE WITH THE NEC. TEST ALL SYSTEMS, VERIFY ALL SYSTEMS OPERATE AS SPECIFIED IN SEQUENCE OF OPERATIONS, AND RECORD INITIAL SETTING AND OPERATING SET-POINTS IN O&M MANUALS. PROVIDE OPERATOR INTERFACE TO ALLOW FOR LOCAL SCHEDULE ADJUSTMENT, SET-POINT ADJUSTMENT, AND HVAC MONITORING. PROVIDE TAMPERPROOF THERMOSTAT GUARDS IN ALL PUBLIC AREAS. PROVIDE CONTROL SYSTEM DEMONSTRATION TO OWNERS REPRESENTATIVE(S) PRIOR TO SUBSTANTIAL COMPLETION.

PROVIDE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE **EQUIPMENT. PROVIDE ACCESS DOORS FOR ALL EQUIPMENT** INSTALLED IN CONCEALED LOCATIONS.

INSTALL ALL EQUIPMENT WHERE SHOWN IN PLANS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES, ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES

PROVIDE ISOLATION VALVES AT EACH FIXTURE. AND GAS ISOLATION VALVE AT EACH GAS APPLIANCE. BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING. BLOW-OUT PROOF STEM. LEVER HANDLE.SOLDER OR THREADED ENDS.

ALL HANGERS AND SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH 2021 UPC, INSTALLED AS PER THE MANUFACTURES INSTRUCTIONS. PROVIDE SEISMIC SUPPORT FOR ALL PIPING SYSTEMS IN ACCORDANCE WITH IBC 2021.

INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING SIZE 1.5" AND LARGER, COMPLETE WITH VAPOR BARRIER JACKET AND PLASTIC COVER FOR FITTINGS. INSULATE PLUMBING VTR'S DOWN 3" FROM ROOF WITH 1" FIBERGLASS PIPE INSULATION. INSULATE RAINWATER ROOF DRAIN PIPING EXCEPT VERTICAL EXPOSED RAINWATER PIPING IN SERVICE AREAS. INSULATE RAINWATER ROOF DRAIN PIPING WITH 1" FIBERGLASS INSULATION, COMPLETE WITH VAPOR SEAL ON ALL PIPING ABOVE GRADE. INSULATE SUPPLY AND WASTE PIPING AT ADA ACCESSIBLE LAVATORIES WITH CELLULAR FOAM. PREFORMED FOR P-TRAP AND HOT WATER ANGLE STOP AND SUPPLY TUBE.

NATURAL GAS PIPING

STEEL PIPE: ASTM A53. SCHEDULE 40 BLACK

FITTINGS: ASME B16.3 MALLEABLE IRON OR ASTM A234/A234M FORGED STEEL WELDING TYPE. JOINTS: NFPA 54 SCREWED FOR LOW PRESSURE PIPE TWO INCHES AND UNDER OR MEDIUM PRESSURE OUTSIDE OF BUILDINGS, ANSI B31\1 WELDED FOR PIPE OVER 2" OR FOR MEDIUM PRESSURE INSIDE OF BUILDINGS.

GENERAL NOTES

WASTE AND VENT PIPING

ABS PIPE; ASTM D2751. FITTINGS: ABS, JOINTS: ASTM D2235, **SOLVENT WELD.**

VTR'A: PROVIDE 1" FIBERGLASS INSULATION W/ VAPOR BARRIER TO 3'-0" BELOW ROOF DECK.

DOMESTIC WATER PIPING (CW/HW)

COPPER TUBING, ASTM B88, TYPE L, HARD DRAWN.

FITTINGS: ASME B 16.18 CAST BRONZE OR ASME **B16.22 WROUGHT COPPER**

> ASTM B32, LEAD FREE SOLDER, WATER SOLUBLE FLUX OR PRO PRESS SYSTEM.

CPVC TUBING

1/2" TO 2" FLOW GUARD GOLD CPVC: ASTM D2846, **NSF LISTED. SDR 11.**

FITTINGS: ASTM F 439 SOLVENT WELDED SOCKET TYPE 2" AND LARGER CORZAN CPVC: ASTM F441, NSF LISTED, SCHEDULE 80

PEX TUBING:

CROSS-LINKED HIGH DENSITY POLYTHENE. TUBING SHALL BE PRODUCED BY USING THE SILANE METHOD OF CROSS-LINKING AND SHALL MEET THE DIMENSION AND PERFORMANCE SPECIFICATIONS OF ASTM F876/F877 AND CSA B137.5. TUBING SHALL ALSO COMPLY WITH ANSI/NSF 61 AS SUITABLE FOR USE WITH POTABLE WATER. PEX PIPING NOT TO BE **INSTALLED WITHIN FIRST 18" WHERE PIPING CONNECTS TO A WATER HEATER. UPC 604.13**

RAIN LEADER PIPING:

RAINLEADERS: CAST IRON WITH NO-HUB FITTINGS OR DWV ABS PIPE AND FITTINGS. DWV ABS CANNOT BE USED IN EXPOSED AREAS OR RETURN PLENUMS. MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE FOR4" AND LARGER

PIPE INSULATION: FIBERGLASS PIPE INSULATION WITH FACTORY APPLIED ALL-SERVICE JACKET; FACTORY PREMOLDED PVC FITTING AND VALVE COVERS. THERMAL CONDUCTIVITY K=0.24 AT 100°F MEAN TEMPERATURE. THICKNESS: 1.0-INCH.

CLEANOUTS TO BE PROVIDED AS PER UPC 707. CLEANOUTS TO BE GAS AND LIQUID TIGHT. HORIZONTAL DRAINAGE PIPING TO BE PROVIDED WITH CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING THAT IS 100 FT IN TOTAL DEVELOPED LENGTH SHALL ALSO BE PROVIDED WITH A CLEANOUT AS WELL AS **EVERY 100 FT OF PIPING OR PIPING THAT HAS AN AGGREGATE** CHANGE OF DIRECTION EXCEEDING 135 DEG. EXCEPTIONS ARE **ROVIDED IN UPC 707 AS WELL.**

FLANGES UNIONS. AND COUPLINGS- 150 PSIG MALLEABLE IRON UNIONS FOR THREADED FERROUS PIPING; BRONZE UNIONS FOR COPPER PIPE. SOLDERED JOINTS.

WATER HAMMER ARRESTORS SHALL BE INSTALLED AS PER UPC SECTION 609.10 AND AS PER PDI WH-201-2006 IN ACCESSIBLE LOCATIONS OR PROVIDE ACCESS DOORS AS REQUIRED. MANUFACTURED BY J.R. SMITH OR APPROVED EQUAL.

CONTROL VALVES - BRONZE BODY AND SEAT WITH STAINLESSSTEEL STEM AND SCREWED ENDS. ANSI CLASS 250 BODY RATING. SUITABLE FOR FLUID TEMPERATURES OF UP TO 300 DEG. F CONTROL VALVES SHALL BE CORRECTLY SELECTED FOR SERVICE AND FLOW OF SYSTEM SERVED. A PRESSURE DROP OF 3 PSI SHALL BE USED TO AS A SIZING GUIDLINE FOR

MODULATING VALVES, TWO POSITION SHUT-OFF VALVES SHALL BE LINE SIZE. PROVIDE ELECTRONIC ACTUATORS WITH SUFFICIENT CLOSE-OFF PRESSURE TO CLOSE-OFF AGAINST SYSTEM PUMP HEAD.

HIGH EFFICIENCY BOILER B-1 REQUIRES THE CONDENSATE TO BE PROCESSED THROUGH A FACTORY BUILT CONDENSATE NEUTRALIZER AND PIPED TO AN APPROVED RECEPTICLE PER IFGC 307.2 PLUS LOCAL AMENDMENT.

HEATING SYSTEM:

STEEL PIPE:

GENERAL NOTES

PEX HEATING PIPING: STANDARDS: ASTM F876/F877, CSA B137.5, DIN

4726, NSF 14, SDR 9

CERTIFICATIONS: NSF-RFH, (RADIANT FLOOR

HEATING)

UPC LISTED BY IAPMO

PRESSURE RATED 100PSI AT 180F.

TYPE L, ASTM B88, WITH SWEAT FITTINGS AND 430

SILVER SOLDER JOINTS.

BLACK STEEL ASTM A120 OR A53 GRADE A OR B,

STANDARD WEIGHT.

STEEL FITTINGS: 2 INCHES AND SMALLER - 150-POUND BLACK MALLEABLE IRON, BLACK, SCREWED, ANSI B16.3 AND ASTM A97. 2-1/2 INCHES AND LARGER -STANDARD WEIGHT, SEAMLESS STEEL, **BUTT-WELDING TO ANSI B16.9, GRADE WPB.**

PIPE INSULATION: FIBERGLASS PIPE INSULATION WITH FACTORY

APPLIED ALL-SERVICE JACKET; FACTORY PREMOLDED PVC FITTING AND VALVE COVERS. THERMAL CONDUCTIVITY K=0.24 AT 100°F MEAN TEMPERATURE.THICKNESS: 1.0-INCH FOR GLYCOL **HEATING SUPPLY AND RETURN SYSTEM. THICKNESS:** 1.5-INCH FOR GLYCOL HEATING SUPPLY AND RETURN SYSTEM, HEATING SUPPLY AND RETURN SYSTEM FOR PIPES 2½" OR LARGER. DO NOT INSULATE HEATING PIPING WITHIN THE BASEBOARD **ENCLOSURE. PROVIDE A 20-GAUGE SHEET METAL** SLEEVE WITH MINERAL WOOL PACKING, FULL DEPTH, AT ALL WALL PENETRATIONS.

PLASTIC PIPE MARKERS:

FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PERFORMED TO FIT AROUND PIPE OR PIPE COVERING.

DIELECTRIC UNIONS:

PROVIDE AT EACH JOINT BETWEEN **DISSIMILAR-METALS.**

PRESSURE FLUSH THE HEATING PIPING TO REMOVE IRON OXIDES AND MILL SCALE FROM THE SYSTEM. FLUSH THE PIPING WITH TRISODIUM PHOSPHATE SOLUTION, 1 POUND FOR EACH 50 GALLONS OF WATER WHICH SHALL BE CIRCULATED FOR FOUR HOURS, THEN DRAINED AND FLUSHED WITH CLEAN WATER. REPEAT THIS PROCESS UNTIL THE SYSTEM IS CLEAN. EXERCISE PROPER CARE DURING CLEANING AND FLUSHING OF SYSTEM TO ENSURE NO DAMAGE IS DONE TO ANY **EQUIPMENT, VALVES, OR FITTINGS.**

TEST THE HEATING SYSTEMS AT 100 PSI WITH NO PRESSURE DROP OVER A FOUR-HOUR PERIOD, WITH SYSTEM STABILIZED AT DESIGN TEMPERATURE. OBSERVE SYSTEM FOR LEAKS, FAULTY CIRCULATION, **EXPANSION AND CONTRACTION, AND REPAIR ANY DEFICIENCIES.**

GENERAL NOTES

THE CONTRACTOR SHALL BALANCE THE AIR DUCT SYSTEMS ACCORDING TO NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) RECOMMENDED PROCEDURES AND CONTRACT DOCUMENTS, AND TO THE SATISFACTION OF THE OWNER. AIR FLOW'S ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS, PER AMERICAN AIR BALANCING COUNCIL(AABC) RECOMMENDED METHODS,

PROVIDE GALVANIZED SHEET METAL WHERE CALLED OUT ON THE PLANS. SEAL ALL DUCT SEAMS AND JOINTS AIR TIGHT. INSTALL VOLUME DAMPERS AT EACH DUCT BRANCH AS NEEDED TO ENSURE PROPER BALANCING. ALL SHEET METAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED, SUPPORTED AND BALANCED IN ACCORDANCE WITH SMACNA STANDARDS. CONSTRUCT T'S, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. IF 1-1/2 TIMES WIDTH CANNOT BE ACHEIVED AND WHERE RECTANGULAR ELBOWS ARE USED, CONSTRACTOR SHALL INSTALL AIR FOIL TURNING VANES. WHERE ACOUSTICAL LINING IS REQUIRED, PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION. WELD IN PLACE. TRANSFORM DUCT SIZE GRADUALLY, NOT EXCEEDINGLY 15" DIVERGENCE AND 30" CONVERGENCE. PROVIDE STANDARD 45 DEGREE LATERAL WYE TAKEOFFS, UNLESS OTHERWISE INDICATED WHERE 90 DEGREE CONICAL TEE CONNECTIONS MAY BE USED. ALL ROUND DUCTWORK SHALL BE SPIRAL, NO EXCEPTIONS.

INSULATED FLEXIBLE DUCTS: FABRIC SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE OR FLAT STEEL BANDS: RATED TO 2 INCHES WG POSITIVE AND 1.5 INCHES WG NEGATIVE FOR LOW PRESSURE DUCTS AND 15 INCH WG POSITIVE OR NEGATIVE FOR MEDIUM HIGH PRESSURE DUCTS WRAPPED WITH FLEXIBLE GLASS FIBER INSULATION, ENCLOSED BY SEAMLESS ALUMINUM PIGMENTED PLASTIC VAPOR BARRIER JACKET; MAXIMUM 0.23 K VALUE AT 75 DEG F.

CONTROL DAMPERS - MULTI-BLADE, OPPOSED BLADE ACTION, CONTROL DAMPERS OF EXTRUDED ALUMINUM, WITH AIR FOIL TYPE BLADES OF MAXIMUM SIX INCH WIDTH. BLADES POSITIONED ACROSS SHORT AIR OPENING DIMENSION ACROSS SHORT AIR OPENING DIMENSIONS, FIELD REPLACEABLE **EXTRUDED VINYL SEALED EDGES, LINKED TOGETHER IN RATTLE** FREE MANNER. NON-CORROSIVE MOLDED SYNTHETIC BEARINGS. SQUARE OR HEXAGONAL AXLES FOR POSITIVE LOCKING CONNECTION TO BLADES AND LINKAGE. DOCUMENTED LEAKAGE RATE NOT TO EXCEED 6 CFM/SQ. FT. AT 4 INCH W.G.

DUCT SOUND LINING - FLEXIBLE GLASS FIBER; ANSI/ASTM C1071: K' VALUE OR 0.24 AT 75 DEG F: COATED AIR SIDE FOR MAXIMUM 5,00 FT./MIN AIR VELOCITY, UL LISTED ADHESIVE GALVANIZED STEEL PINS.

ALL DUCTWORK MUST BE INSULATED TO A MINIMUM OF 10' INSIDE OF EXTERIOR WALL IF DUCT IS CONNECTED WITH OUTSIDE AIR OPENING.

DUCTWORK - 1" THICK FLEXIBLE INSULATION; AVERAGE THERMAL CONDUCTIVITY K EQUALS 0.24 AT 75 DEGREES F MEAN TEMPERATURE AT 1.5 PCF DENSITY. ATSM. FACTORY APPLIED APOR BARRIER FLAME RETARDENT FOIL-SCRIM-KRAFT (FSK) OR ALL SERVICE JACKET AND TAPE WITH PERMEABILITY RATING EQUALS 0.02 PERMS. ASTM 96. PROVIDE 1" FIBERGLASS INSULATION WITH A COMPLETE FACTORY APPLIED VAPOR BARRIER JACKET ON ALL EXHAUST DUCTWORK WITHIN 10' OF EXTERIOR OPENINGS AND MEDIUM PRESSURE SUPPLY DUCTWORK, INSULATE OUTSIDE AIR DUCTWORK WITH 2" RIGID EXTERIOR FSK DUCT WRAP AND CANVAS FINISH.

ALL DUCT PENETRATIONS OF I-JOISTS MUST BE COORDINATED WITH AND APPROVED BY THE STRUCTURAL ENGINEER IF PENETRATIONSAR MADE. INSPECTOR TO VERIFY.



ANCHORAGE, AK 99507 EOFAL Ron Thompson No. ME-9246 •

7216 LAKE OTIS PKWY

LIC # 101702 4/21/25

PROFESSION P

REVISIONS: 4/14/25

4/21/25

PROJECT NR: 2025-15 3/23/25 DATE:

DRAWN BY: RJT AS NOTED SCALE:

SHEET NUMBER:

M2.0

	PLUMBING FIXTURE SCHEDULE										
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	CW	HW	WASTE	VENT	TRAP	COLOR	SPECIFICATIONS
WC-1	PROFLO	PF1403T	WATER CLOSET	FLOOR	1/2"		3"	2"		WHITE	TWO PIECE TOILET, ELONGATED BOWL, 17" RIM HEIGHT, ICC/ANSI A117.1 ADA REQUIREMENTS OR APPROVED EQUAL.
LAV-1	KOHLER	K-2196	LAVATORY	COUNTER	1/2"	1/2"	1-1/2"	1-1/4"	1-1/2"	WHITE	PENNINGTON DELTA 501-HDF FAUCET, GRID STRAINER, VANDAL RESTRAINT 1.5 GPM AERORATOR, MUST MEET ADA IF ADA UNIT OR APPROVED EQUAL.
LAV-2	AMERICAN STANDARD	DECLYN	LAVATORY	COUNTER	1/2"	1/2"	1-1/2"	1-1/4"	1-1/2"	WHITE	AMERICAN STANDARD 0321026.020 DECLYN 18 1/2" X 17" WHITE VITREOUS CHINA WALL-MOUNT LAVATORY WITH 4" CENTERSET AND WALL HANGER OR APPROVED EQUAL.
FD-1	J.R. SMITH	2005	FLOOR DRAIN	FLOOR			3"	2"	3"		FLOOR DRAIN, ROUND TOP TRAP PRIMER CONNECTION, OR APPROVED EQUAL
HB-1	WOODFORD	В65-СН	KITCHEN SINK	DROP IN	3/4"					CHROME	WOODFORD MODEL B65-CH FOR HOSE BI-EXTERIOR CHROME, FREEZE-LESS, ANTI-SIPHON VACUUM BREAKER, METAL HANDLE, LOCKING WALL BOX, OR APPROVED EQUAL.
TUB-1	STERLING	ENSEMBLE	тив кіт	FLOOR	1/2"	1/2"	2"	1-1/2"	2"	WHITE	ENSEMBLE MEDLEY 60 IN. X 31.125 IN. X 74.25 IN. 4-PIECE TONGUE AND GROOVE TUB WALL IN WHITE OR APPROVED EQUAL
DW-1	FRIGIDAIRE	FFCD2413US	DISHWASHER	FLOOR		1/2"				SS	FRIGIDAIRE 60-DECIBEL FILTRATION BUILT-IN DISHWASHER (STAINLESS STEEL (COMMON: 24-IN; ACTUAL: 24-IN) ENERGY STAR, OR APPROVED EQUAL
WB-1	IPS CORP	GUY GREY	WASHER BOX	WALL	1/2"	1/2"	2"	1-1/2"	2"	WHITE	IPS CORP GUY GRAY WASHER BOX, OR APPROVED EQUAL
KS-1	ELKAY	DAYTON	KITCHEN SINK	DROP IN	1/2"	1/2"	2"	1-1/2"	2"	SS	DAYTON DROP-IN STAINLESS STEEL 33 IN 3 HOLE DOUBLE BOWL SINK, OR APPROVED EQUAL

	BOILER SCHEDULE										
SYMBOL	MANUFACTURER	MODEL	BTU INPUT (MBH)	BTU OUTPUT (MBH)	AFUE %	SPECIFICATIONS					
B-1	LOCHINVAR	WHB285	285	264	95	LOCHINVAR KNIGHT FIRE TUBE BOILER, 27.0 GPM FLOW RATE, 2.4 FT HD., 1-1/4" CONNECTIONS, 3" VENT, OR APPROVED EQUAL.					

	PUMP SCHEDULE									
SYMBOL	MANUFACTURER	MODEL	GPM	FT HD	VOLTS/HZ/PHASE	SPECIFICATIONS				
BSP-1	GRUNDFOS	UPS26-99F	40	2.4	230V/60HZ/1Ø	BOILER CIRC PUMP, GRUNDFOS OR APPROVED EQUAL				
WSP-1	GRUNDFOS	UPS15-58FC	14	6.5	230V/60HZ/1Ø	HOT WATER HEATER CIRCULATION LOOP PUMP, GRUNDFOS OR APPROVED EQUAL				
BPP-1	GRUNDFOS	MAGNA1 40-120 GF	55	18	120V/60HZ/1Ø	PRIMARY HEATING LOOP PUMP, GRUNDFOS OR APPROVED EQUAL				
HWCP-1	GRUNDFOS	UPS15-55 SFC	1	15	120V/60HZ/1Ø	HOT WATER RECIRC PUMP, GRUNDFOS OR APPROVED EQUAL				

WATER HEATER SCHEDULE											
SYMBOL	MANUFACTURER	MODEL	STORAGE (GAL)	BTU INPUT (MBH)	RECOVERY @ 100 DEG RISE	SPECIFICATIONS					
						LOCHINVAR STAINLESS STEEL INDIRECT WATER HEATER,					
WH-1	LOCHINVAR	SIT119	113	199	308 GPH	14.0 GPM FLOW RATE, 6.5 FT HD. OR APPROVED					
						EQUAL.					

	EXAUST FAN SCHEDULE										
SYMBOL MANUFACTURER MODEL WATTS ESP (IN WC) CFM VOLTS/HZ/PHASE SPECIFICATIONS											
EF-1	PANASONIC	FV-0510VS1	4.4	0.1	50	120V/60HZ/1Ø	WHISPERFITEZ FAN 50/80/100 CFM, 0.09 A, OR APPROVED EQUAL				

	EXPANSION TANK SCHEDULE									
SYMBOL	MANUFACTURER	MODEL	FUNCTION	TANK VOLUME	SPECIFICATIONS					
ET-1	THERM-X-TROL	ST-5C	HOT WATER	2 GALLONS	MAX OPERATIING TEMPERATURE MAX WORKING PRESSURE 150 PSIG, PRECHARGE PRESSURE 55 PSIG. OR APPROVED EQUAL					
BET-1	THERM-X-TROL	AX-15(V)	BOILER	8.6 GALLONS	MAX OPERATIING TEMPERATURE MAX WORKING PRESSURE 150 PSIG, PRECHARGE PRESSURE 55 PSIG. OR APPROVED EQUAL					

FRESH AIR INLET SCHEDULE									
SYMBOL	MANUFACTURER	MODEL	SIZE	USE	SPECIFICATIONS				
FAI-1	THERMA-STOR	FRESH	70	OA	FRESH 80 AIR INLET OR APPROVED EQUAL				

	BASEBOARD SCHEDULE										
SYMBOL	SYMBOL MANUFACTURER MODEL ELEMENT TYPE FINS / FT BTU/FT/HR SPECIFICATIONS										
BB-1	SLANT FIN	MULTI PAK 80	Н3	55	730	83-A2 BASEBOARD (H-3 ELEMENT IN 80D ENCLOSURE), ENCLOSURE TO BE MINIMUM OF 12" LONGER THAN ELEMENT OR APPROVED EQUAL					



EF-1: BATHROOM ROOM EXHAUST. FAN IS EITHER ON OF OFF BASED UPON ROOM OCCUPANCY. IF LIGHT IS ON FAN IS ON IF LIGHT IS OFF FAN IS OFF.

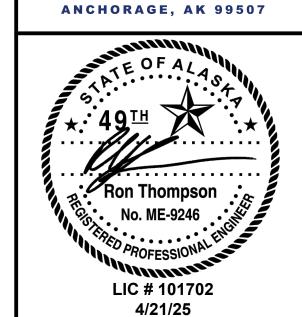
WH-1: WATER HEATER TO HAVE INTEGRAL AQUASTAT AND SHALL OPERATE TO MAINTAIN 120 DEG F SETPOINT FOR FIXTURES.

B-1 AND WH-1 SYSTEM TO BE CONTROLLED WITH BOILER SYSTEM CONTROLS WITH HOT WATER PRIORITY PUMPS CONTORLED THROUGH BOILER SYSTEM AS PER MANUFACTURERS RECOMMENDATION. ROOMS TO HAVE THERMOSTATS TO CONTROL ROOM SET TEMPERATURE.

APPROVED EQUAL

SCOPE	

7216 LAKE OTIS PKWY



1. 4/14/25 2. 4/21/25

REVISIONS:

PROJECT NR: 2025-15 3/23/25 DATE: DRAWN BY: RJT SCALE: AS NOTED SHEET NUMBER:

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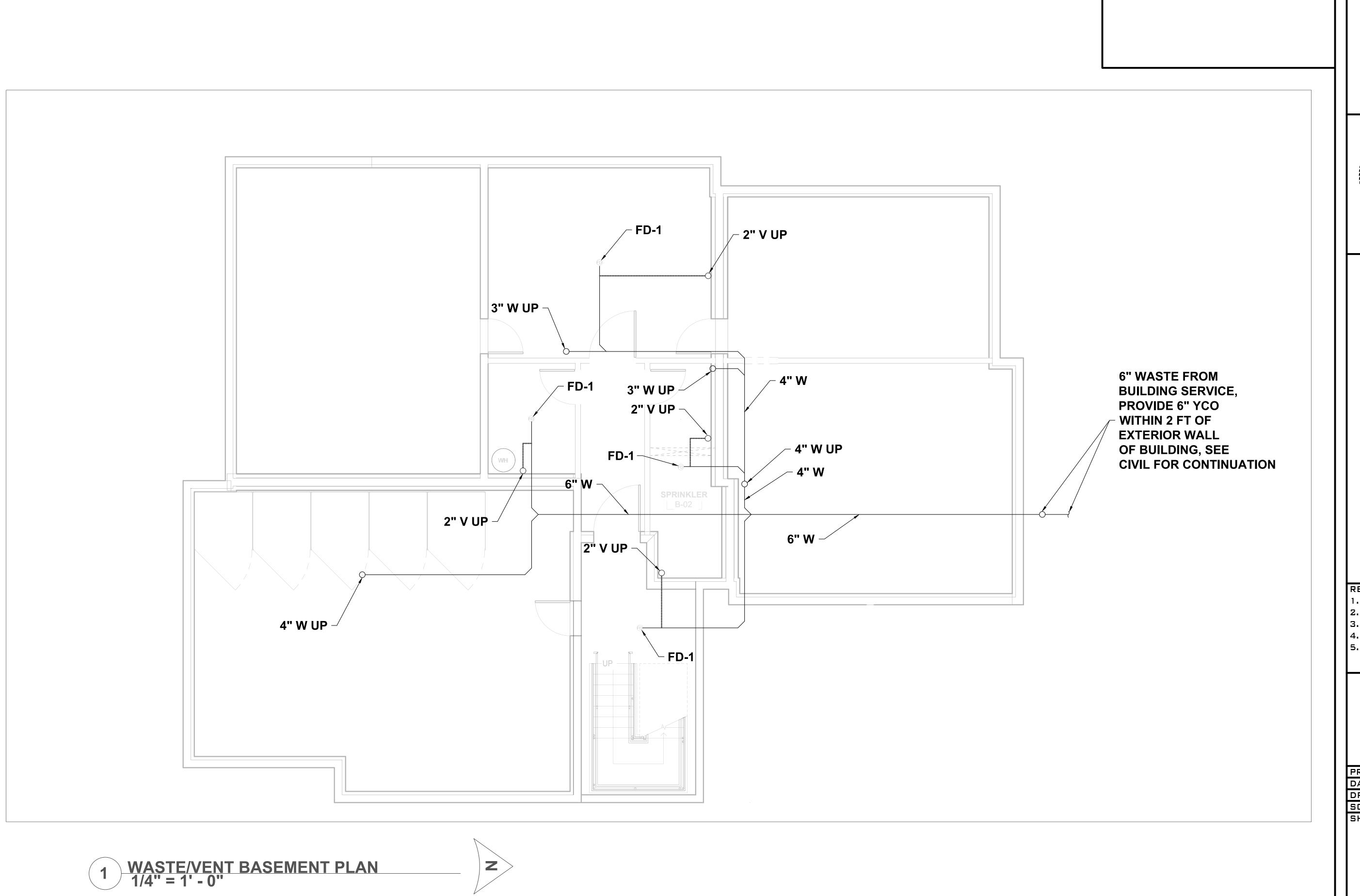
CIHA BAXTER - BI ANCHORAGE, A	UILDING	K 99504
	m	CHORAG

	KICK PLATE HEATER SCHEDULE									
MBOL	MBOL MANUFACTURER MODEL ELEMENT TYPE MOTOR AMP 180 DELTA T SPECIFICATIONS									
(PH-1	BEACON MORRIS	TWIN FLO III	K42	0.5		HYDRONIC KICK PLAKTE HEATER 1/2" PIPING TO AND FROM KICKPLATE, OR				

HOOD SCHEDULE							
ſ	MANUFACTURER	MODEL	LENGTH (FT)	CFM	ESP (IN WC)	EA OPENING (IN)	SPECIFICATIONS
	GE	RES HOOD	30"	200	0.25" EA	4" DIA	GE 200 CFM 30 INCH WIDE UNDER CABINET RANGE HOOD WITH LED LIGHTING, STAINLESS STEEL, OR APPROVED EQUAL

SYMBOL

HOOD-1







REVISIONS: 1. 2.

> 4. 5.

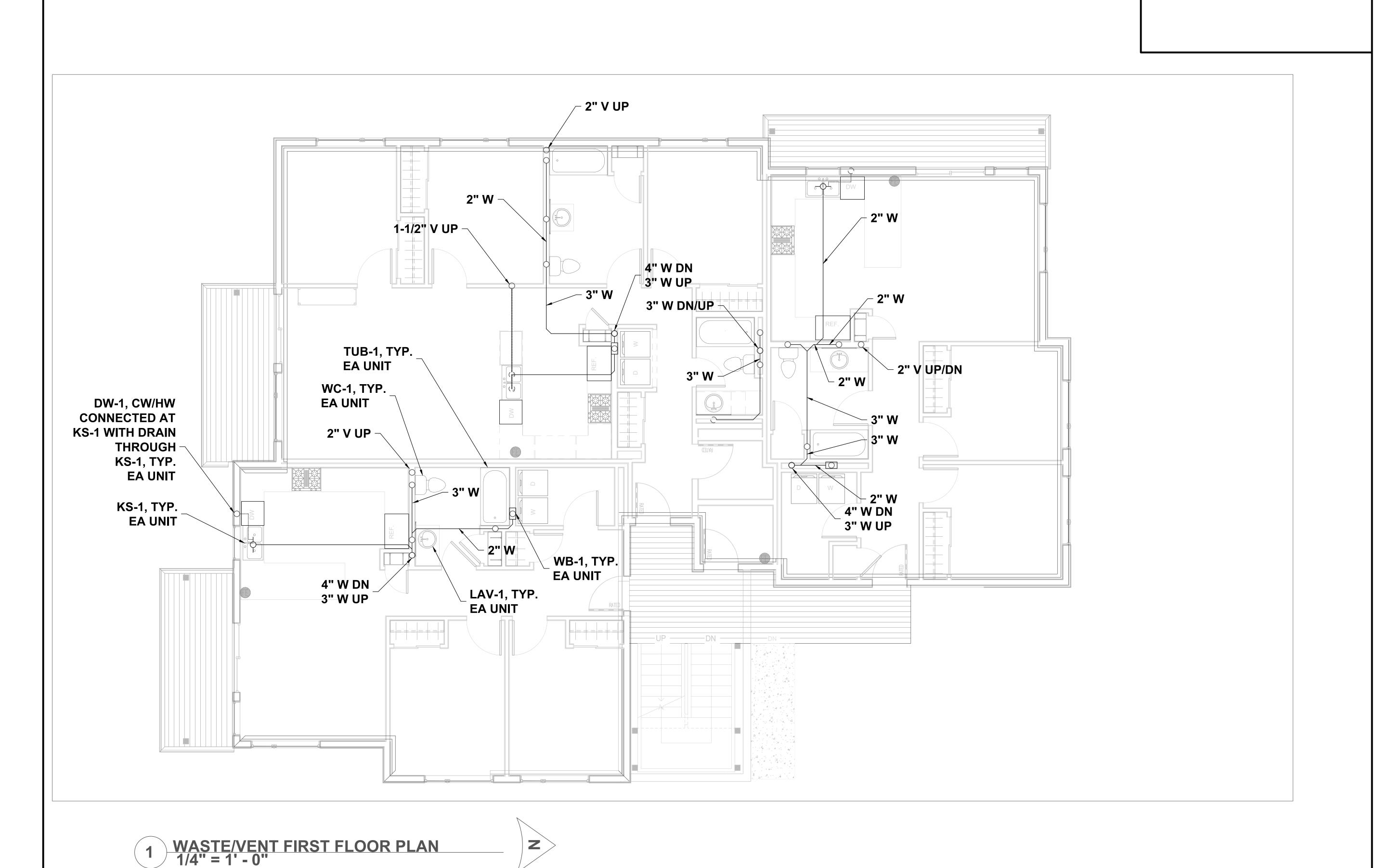
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DATE: 3/23/25

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SCALE: AS NOTED

SHEET NUMBER:







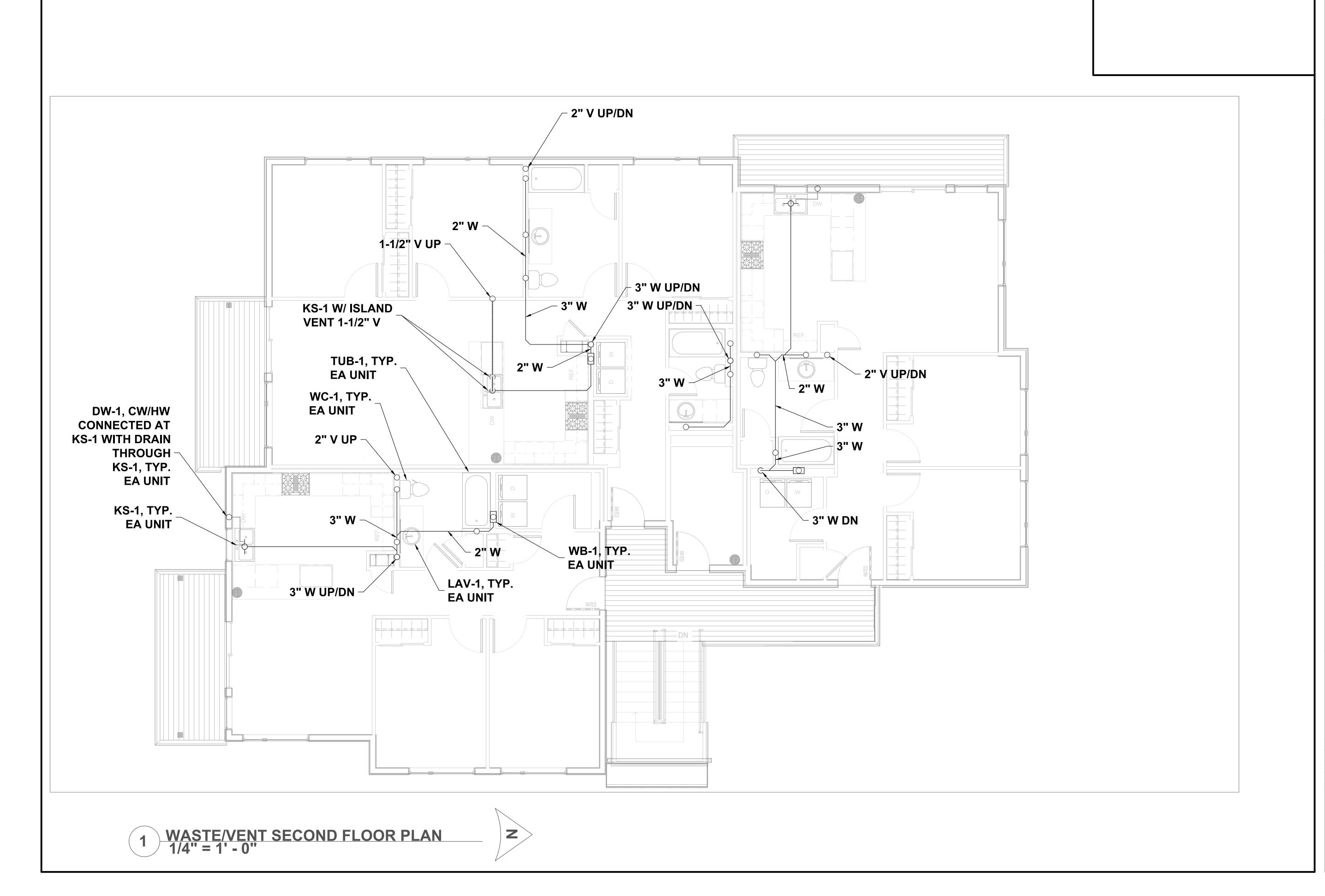
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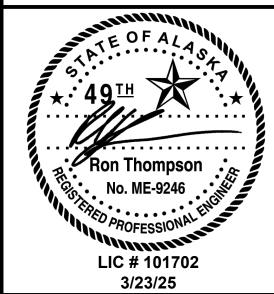
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PROJECT NR: 2025-15
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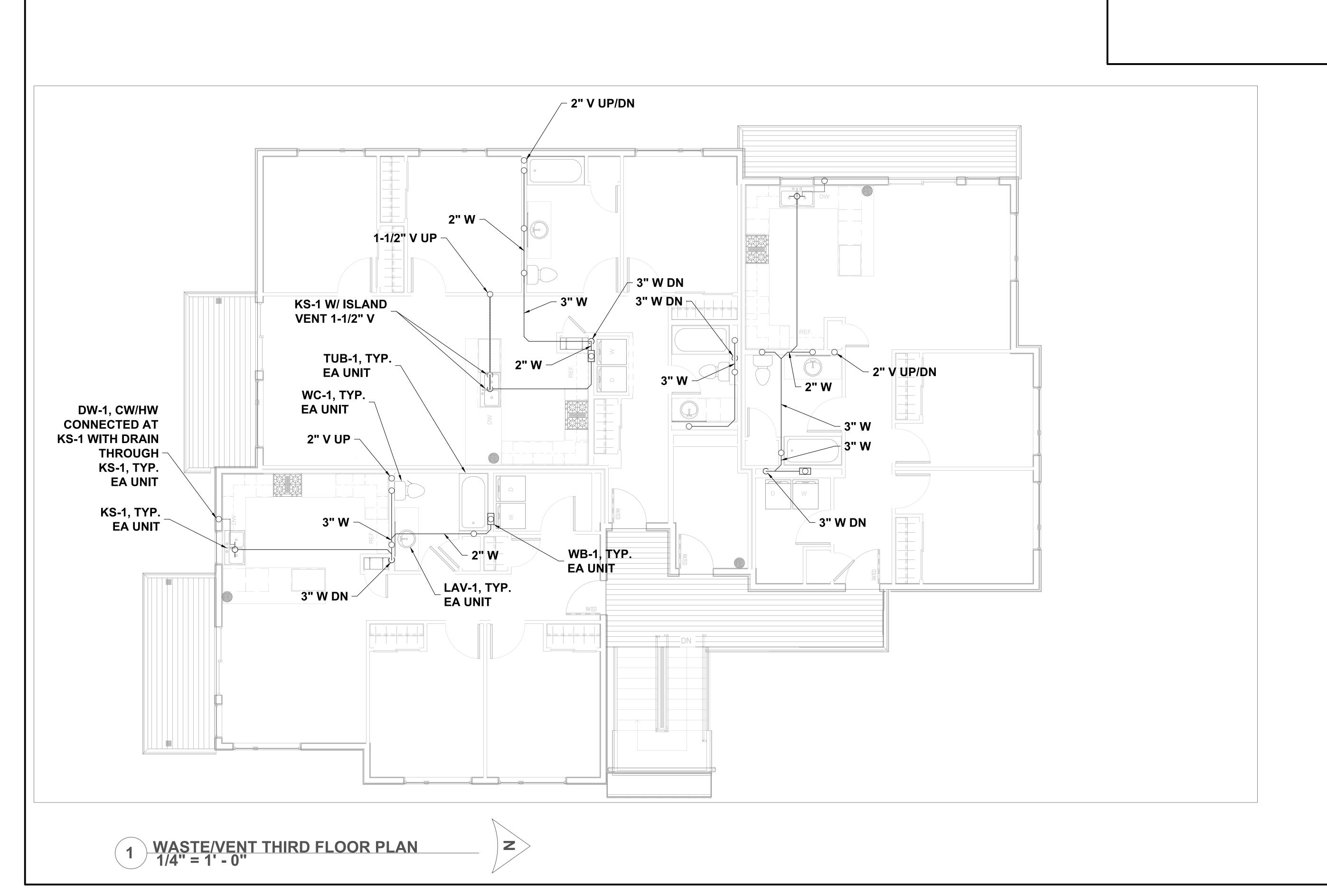
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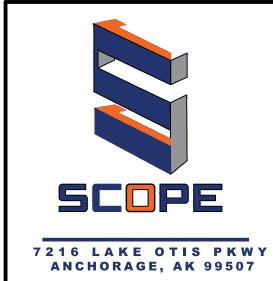
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DATE: 3/23/25
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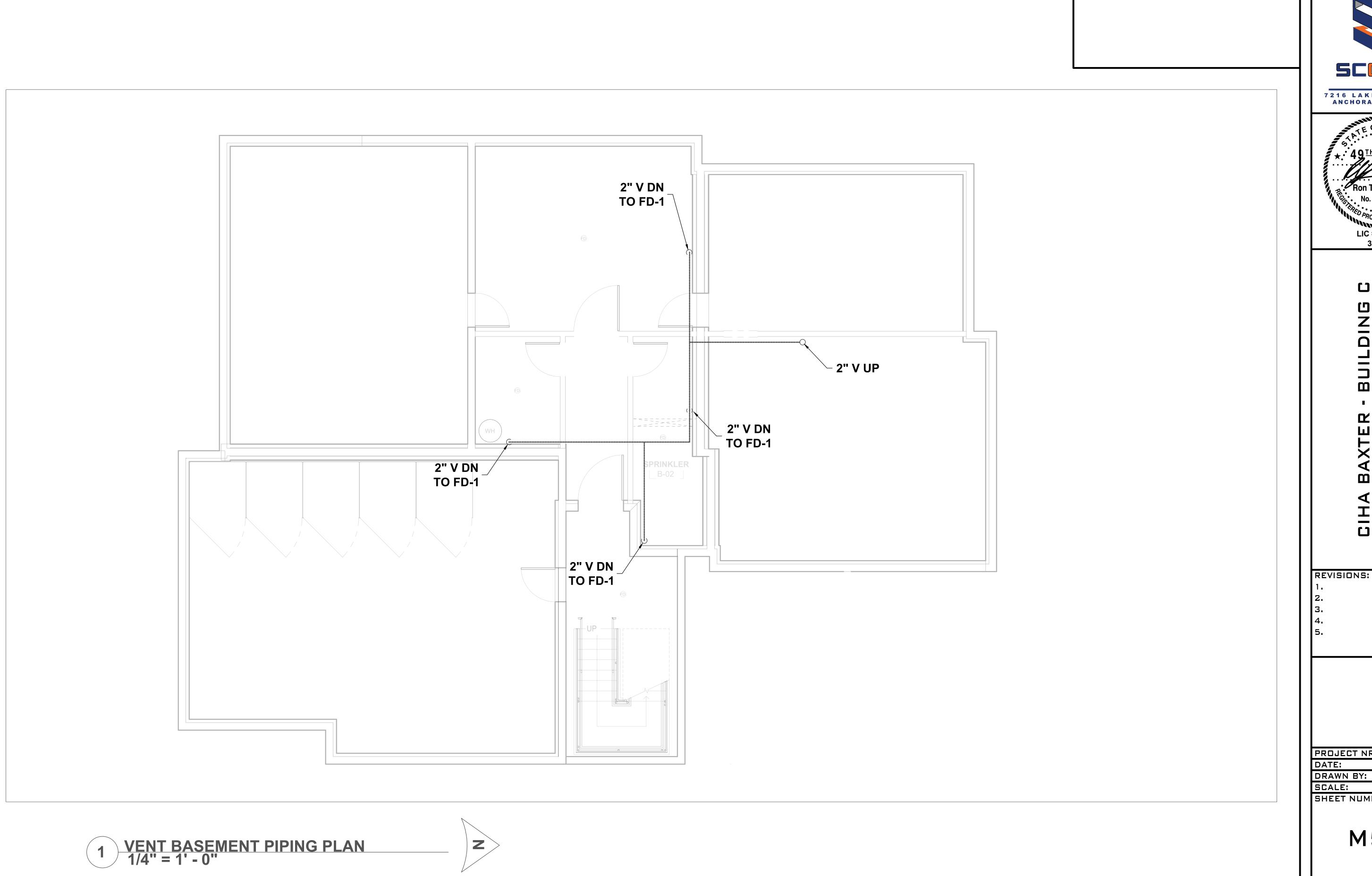
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PROJECT NR: 2025-15
DATE: 3/23/25

DRAWN BY: RJT
SCALE: AS NOTED
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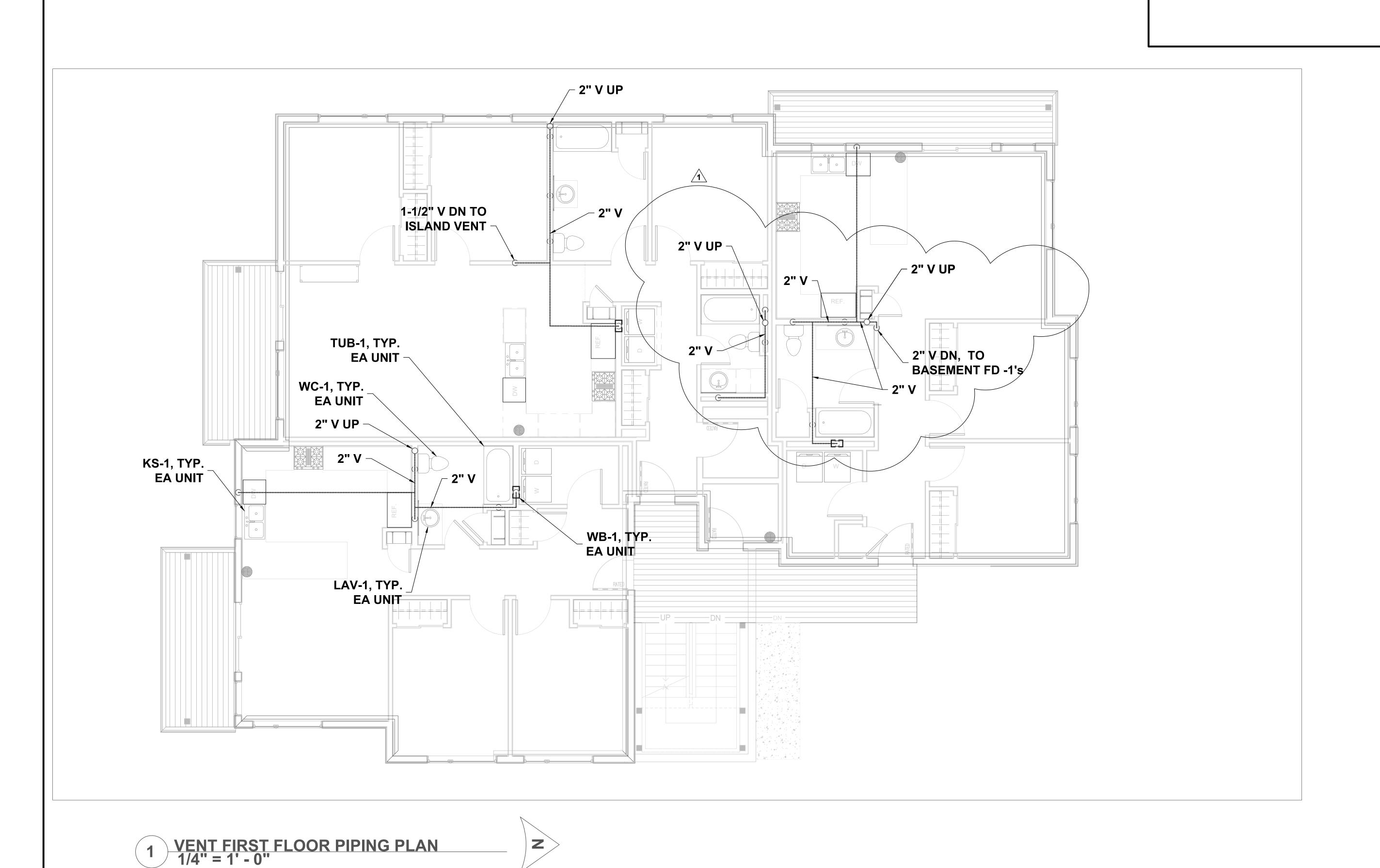


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REVISIONS:

PROJECT NR: 2025-15 DATE: 3/23/25

AS NOTED SHEET NUMBER:







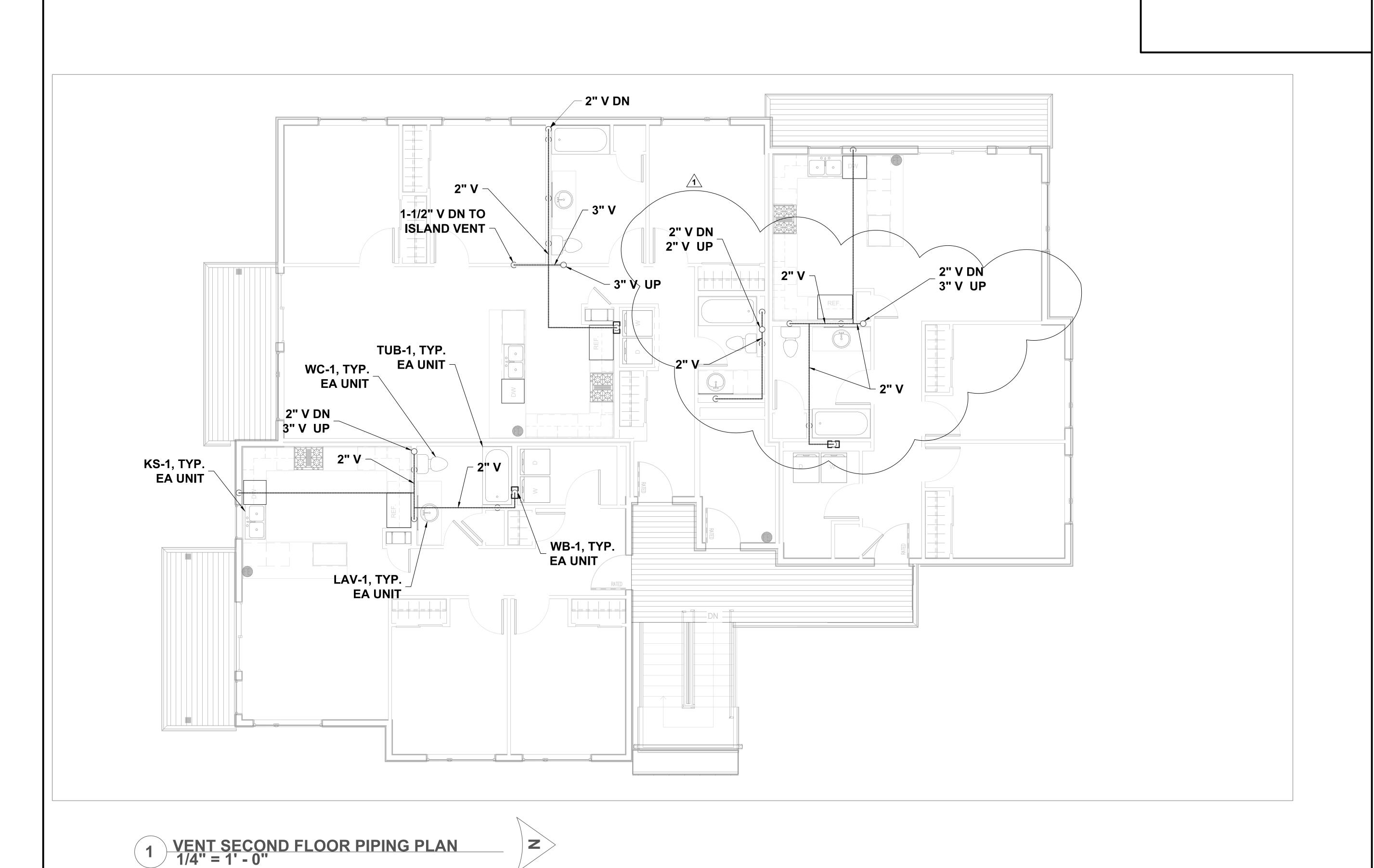
REVISIONS: 1. 4/14/25

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PROJECT NR: 2025-15
DATE: 3/23/25
DRAWN BY: RJT
SCALE: AS NOTED

SHEET NUMBER:







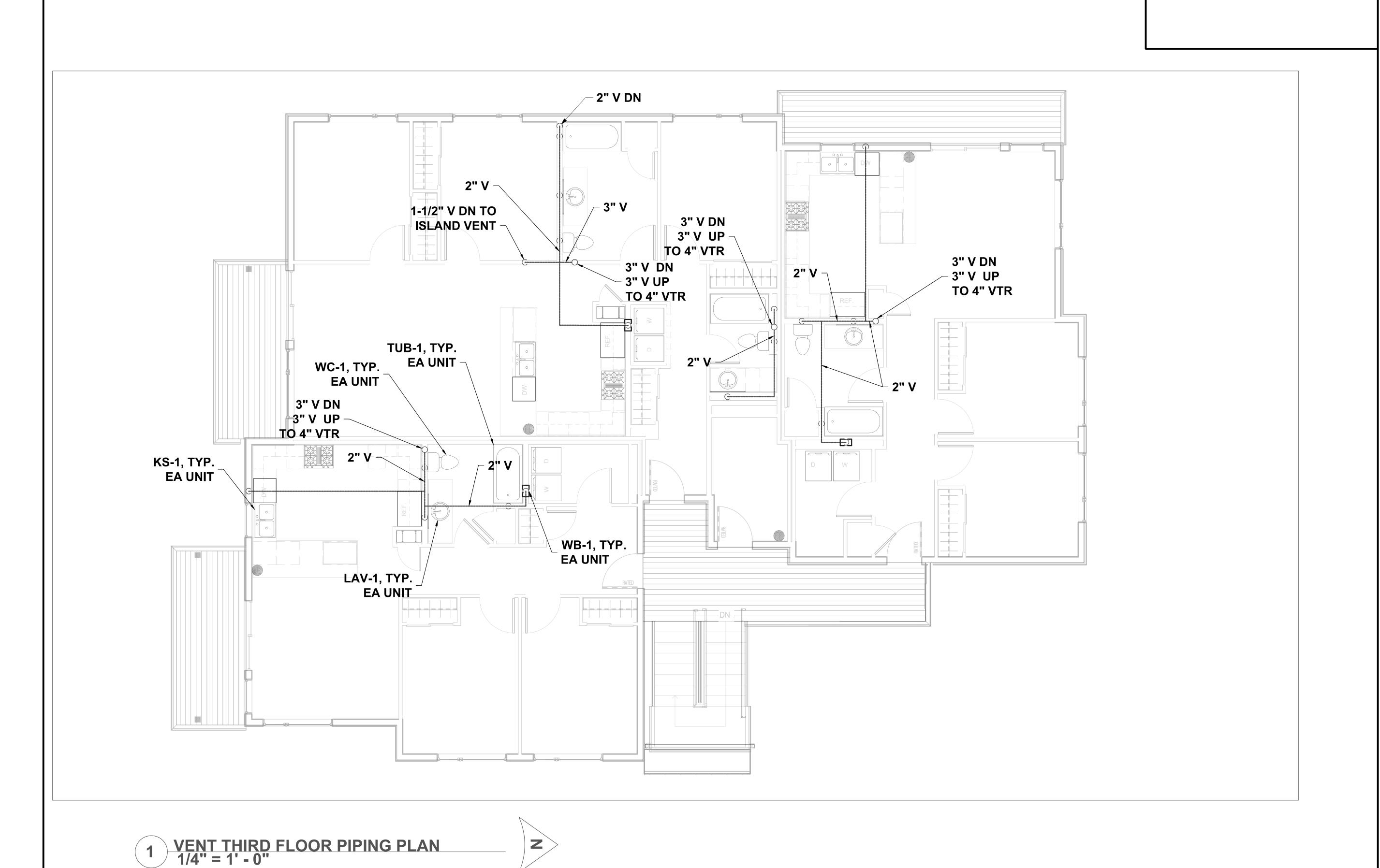
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PROJECT NR: 2025-15
DATE: 3/23/25
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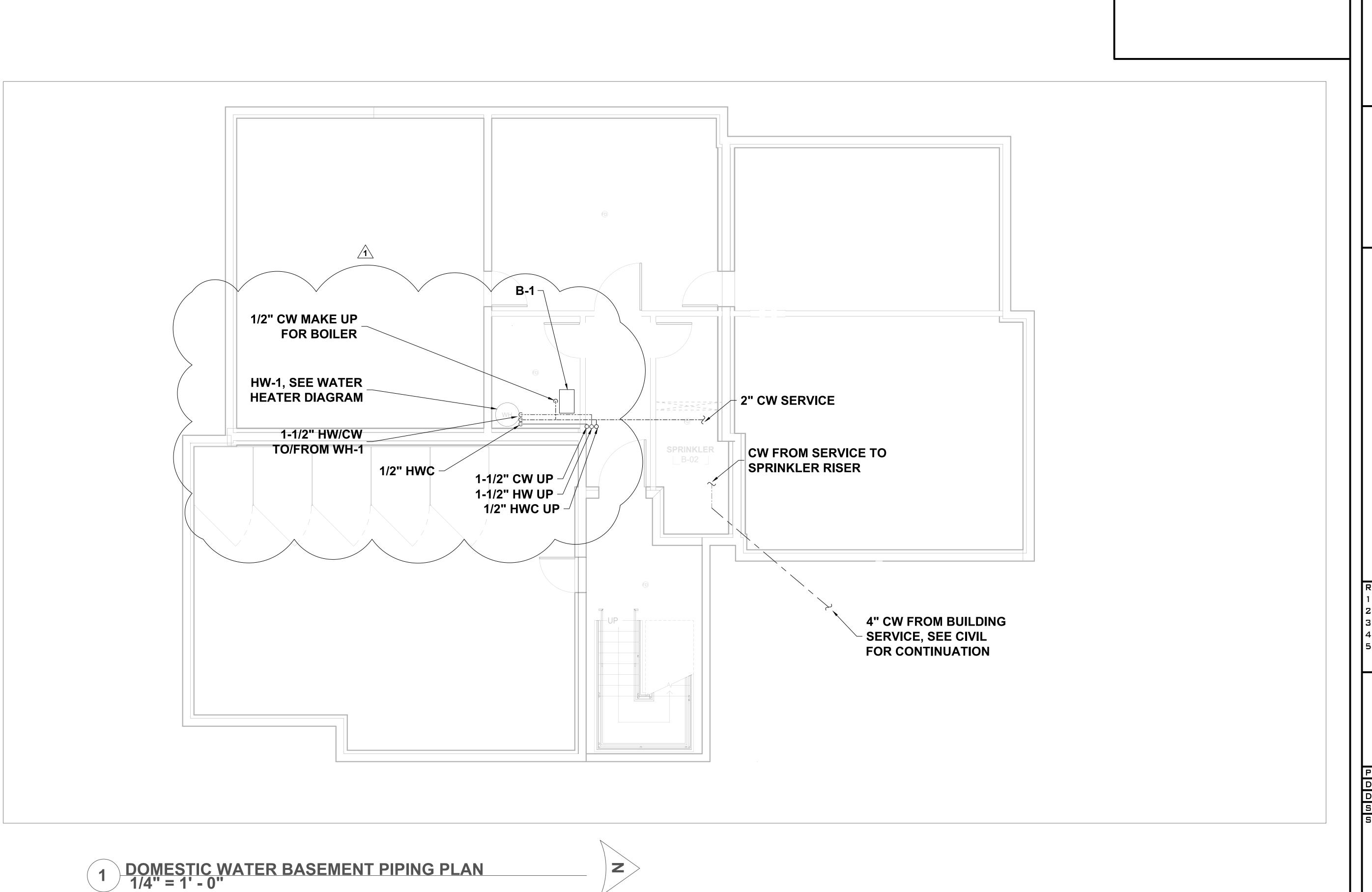
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PROJECT NR: 2025-15
DATE: 3/23/25
DRAWN BY: RJT
SCALE: AS NOTED

SCALE: SHEET NUMBER:







REVISIONS: 1. 4/14/25

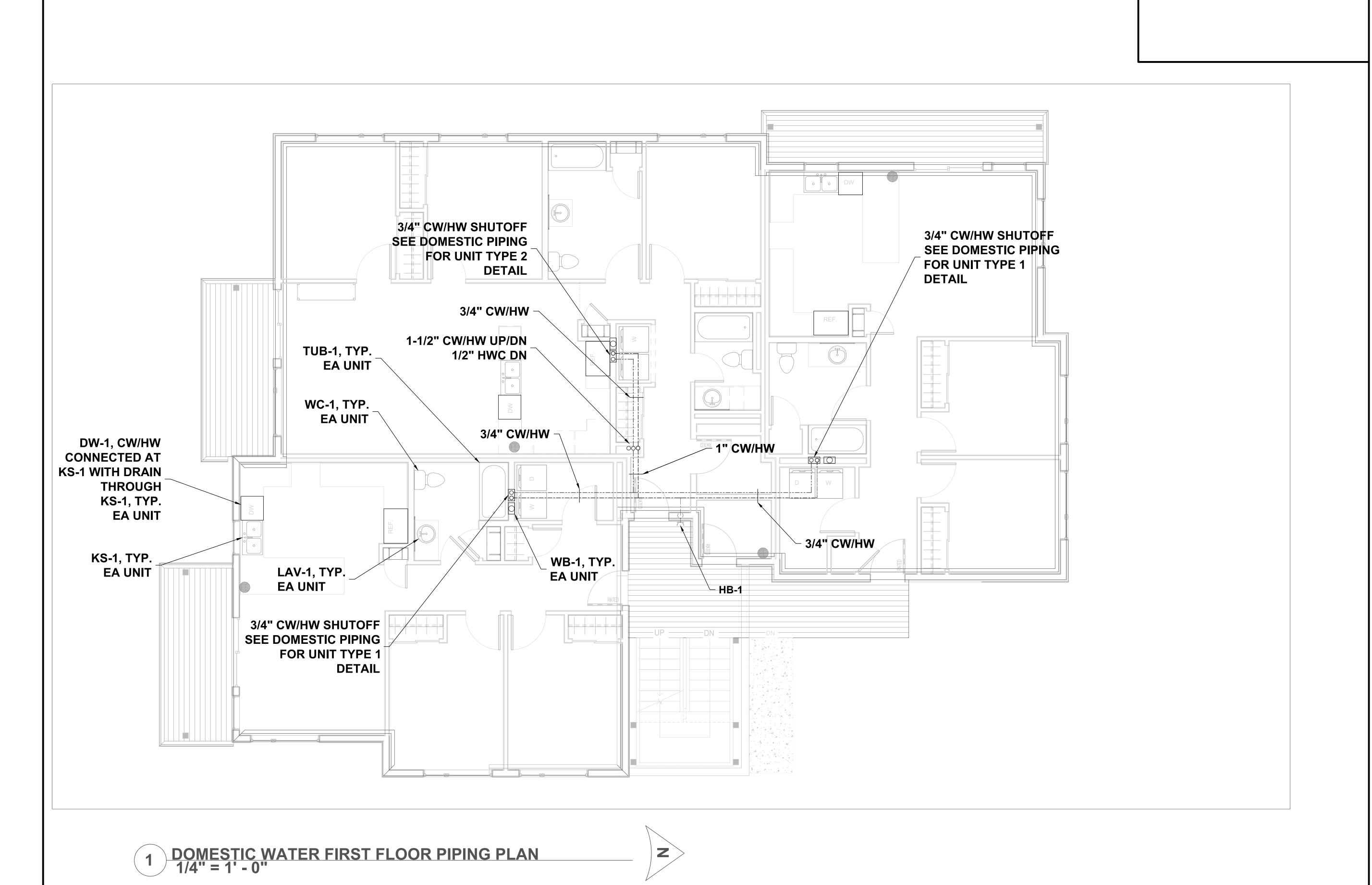
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PROJECT NR: 2025-15
DATE: 3/23/25

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SCALE: AS NOTED

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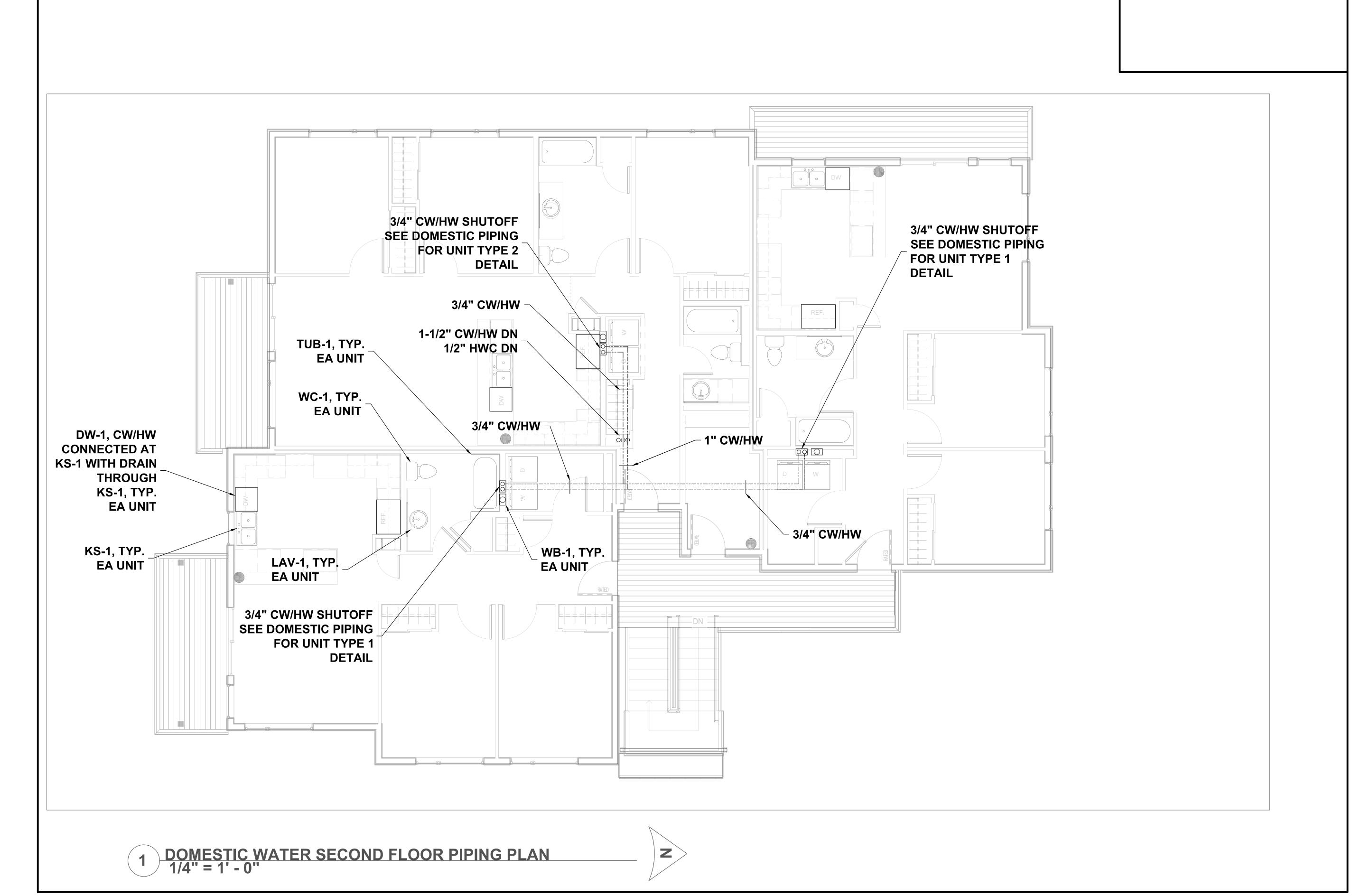
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PROJECT NR: 2025-15
DATE: 3/23/25
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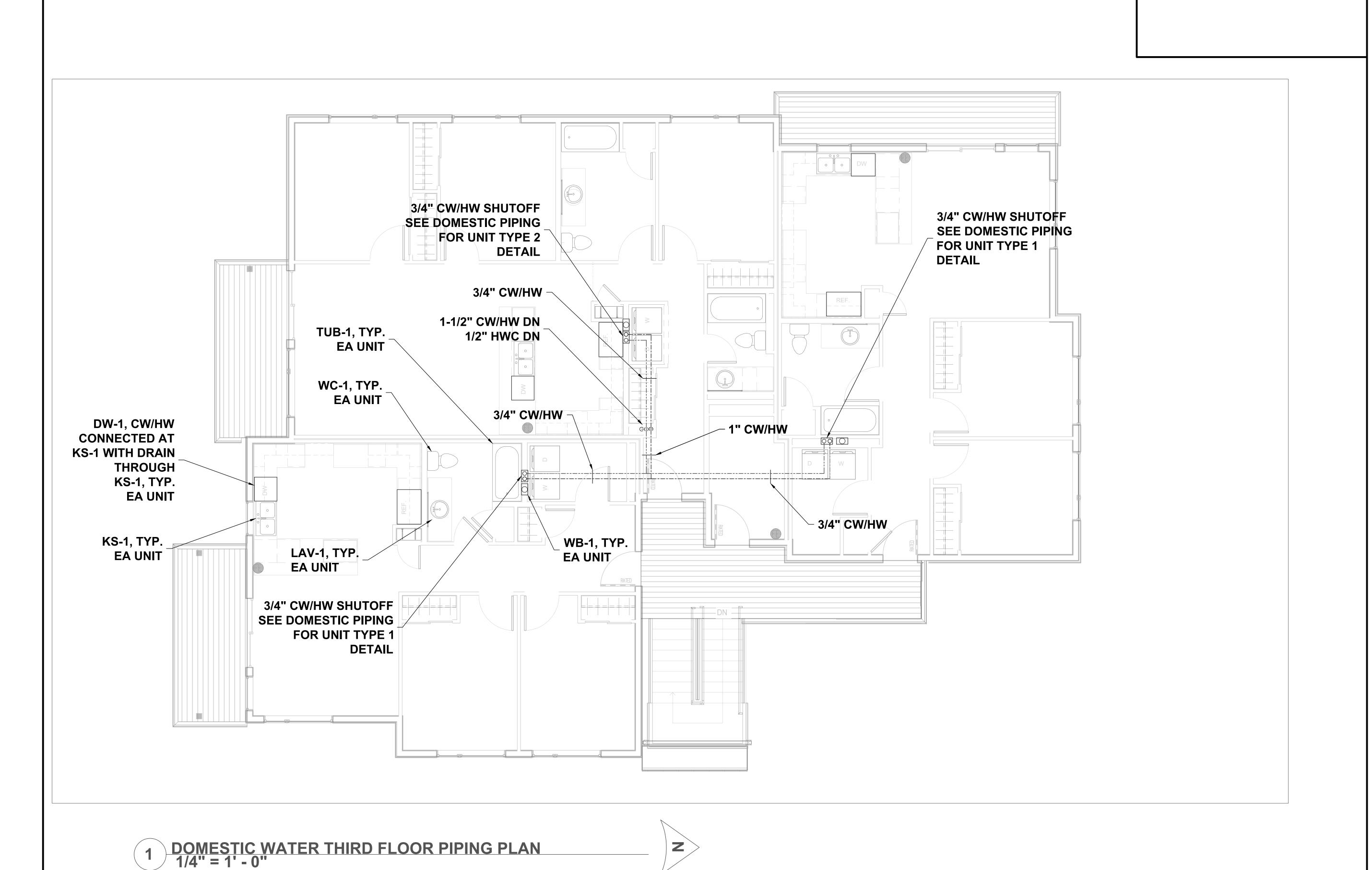
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PROJECT NR: 2025-15
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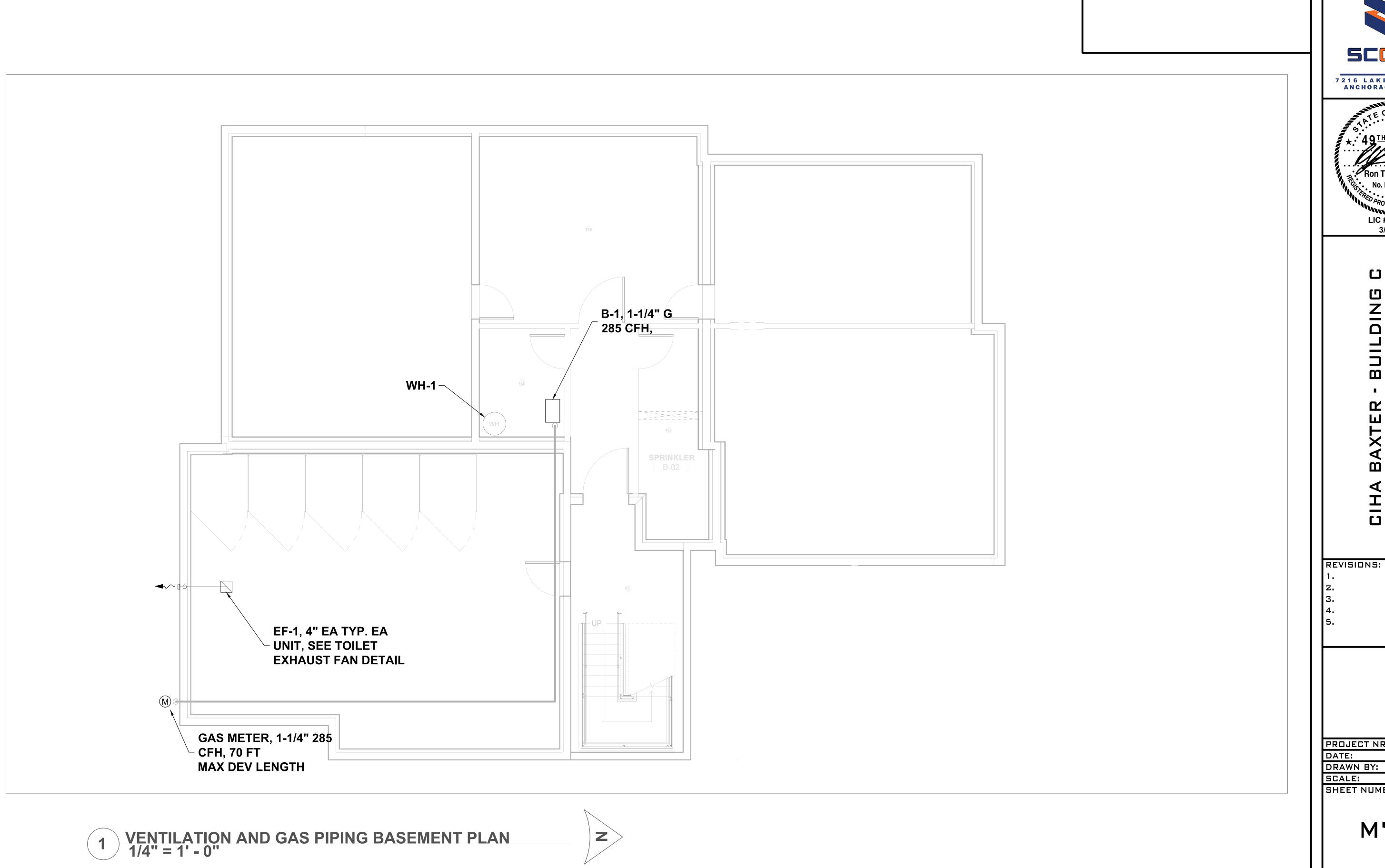
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PROJECT NR: 2025-15
DATE: 3/23/25
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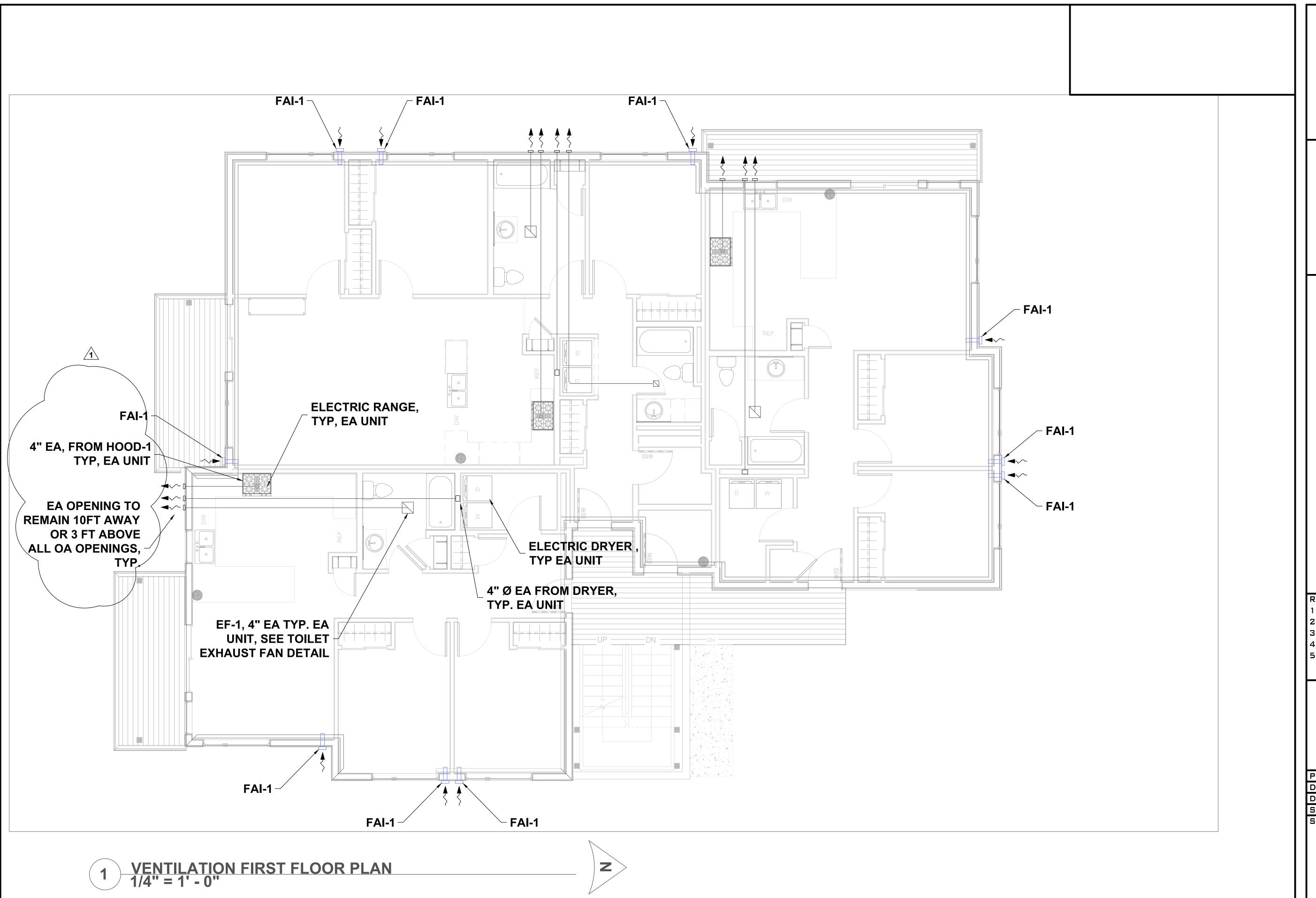




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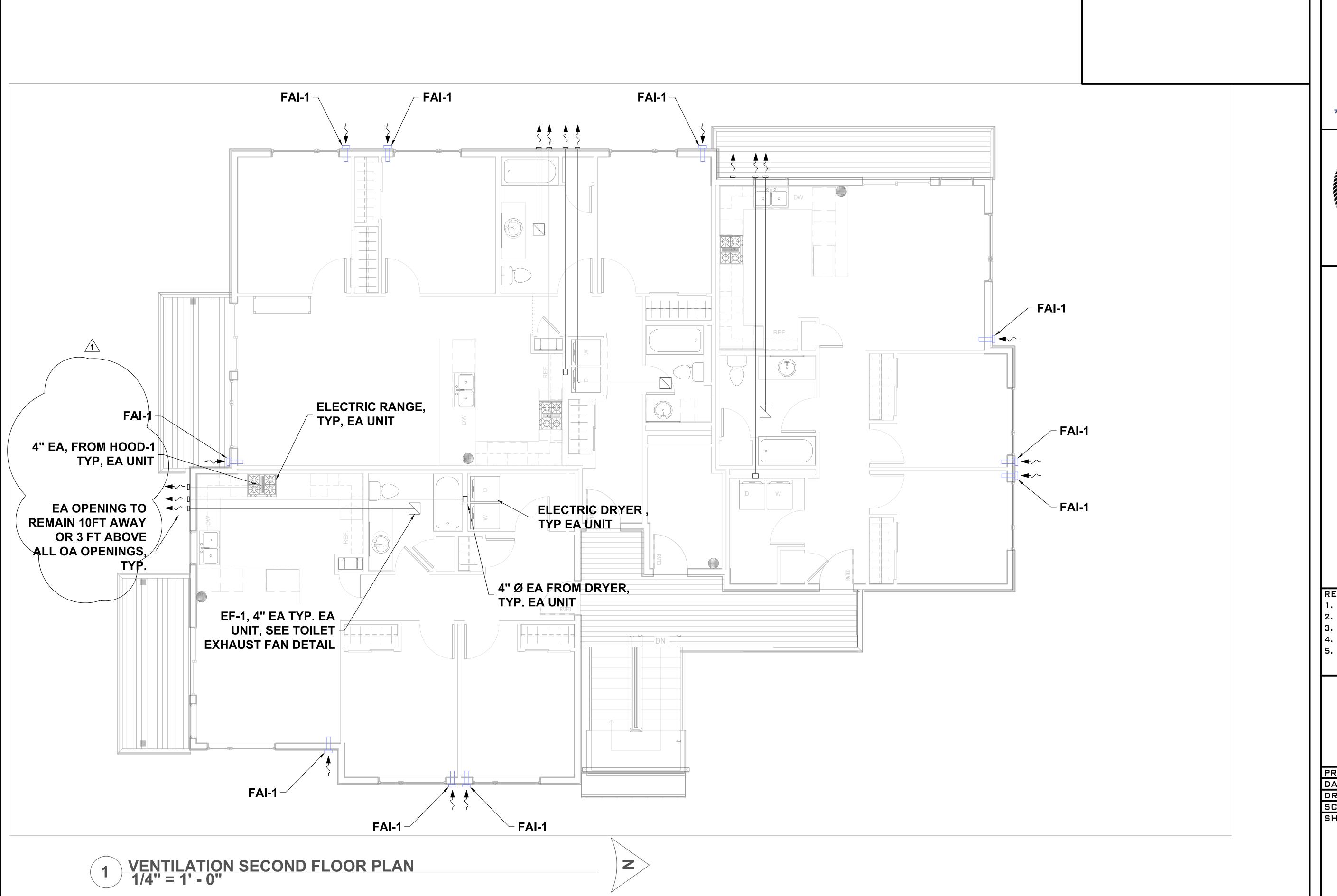




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PROJECT NR: 2025-15 DATE: 3/23/25 DRAWN BY: SCALE: AS NOTED

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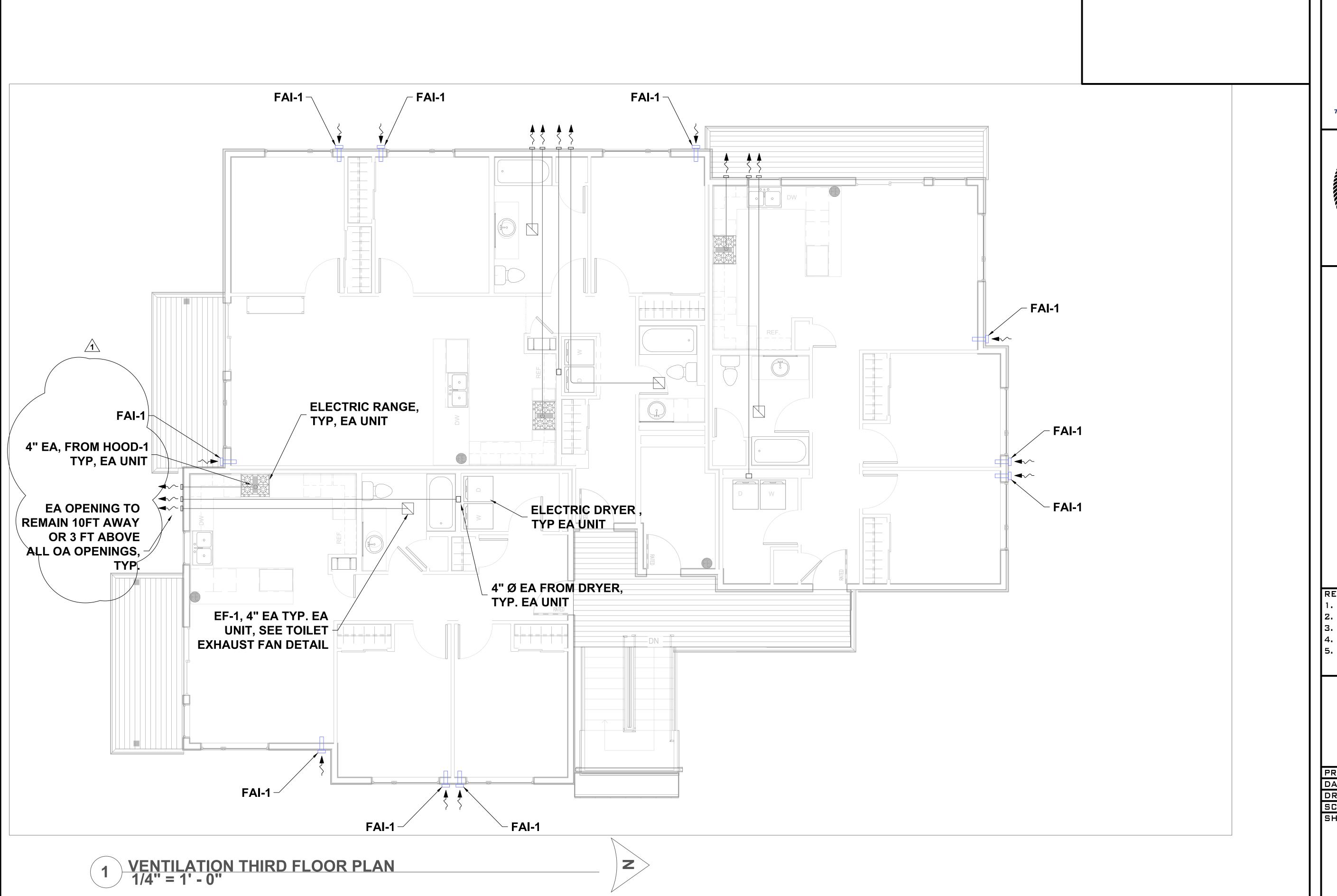


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REVISIONS: 1. 4/14/25

PROJECT NR: DATE: 2025-15 3/23/25 DRAWN BY: AS NOTED SCALE:

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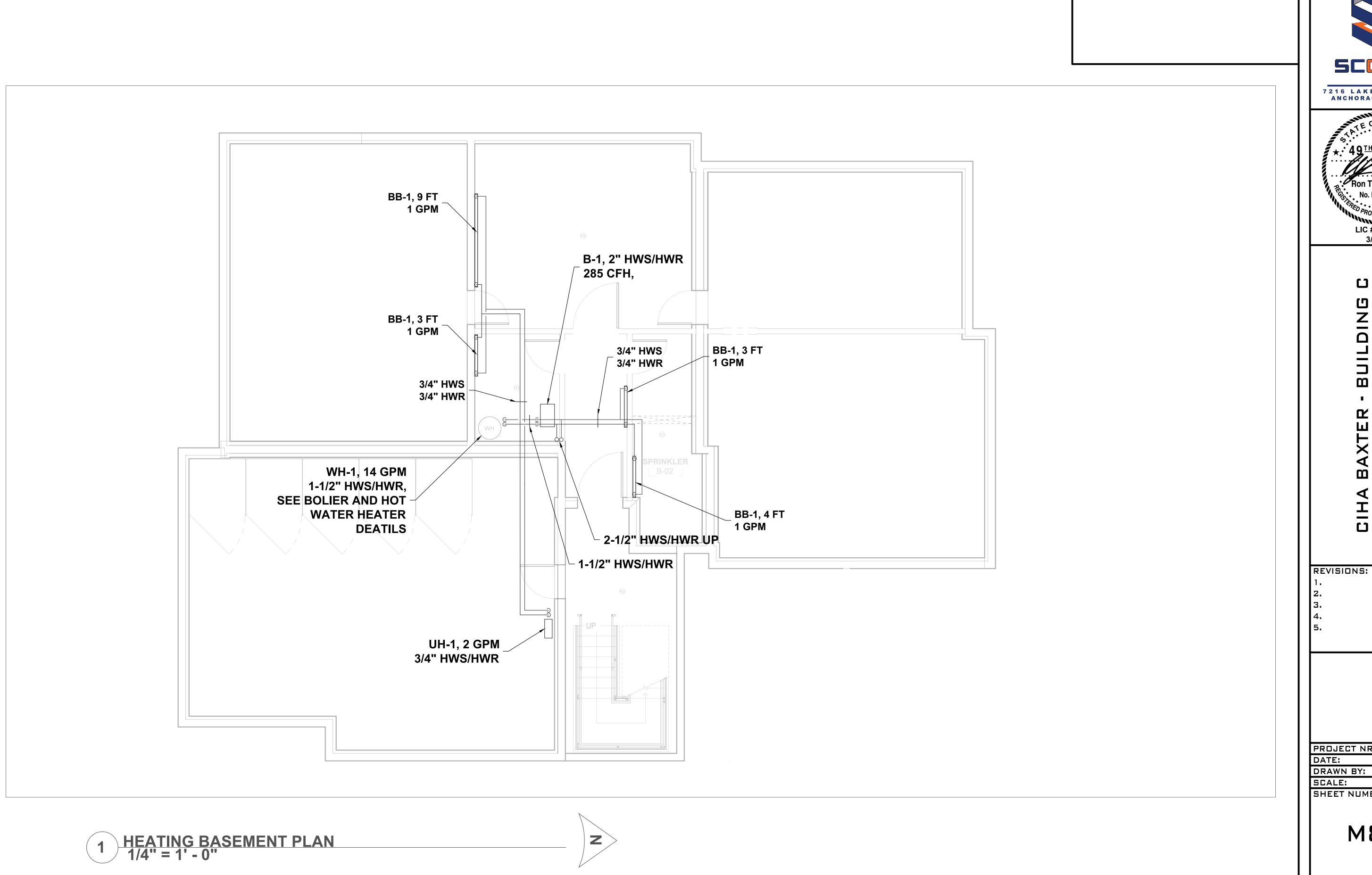
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PROJECT NR: 2025-15
DATE: 3/23/25
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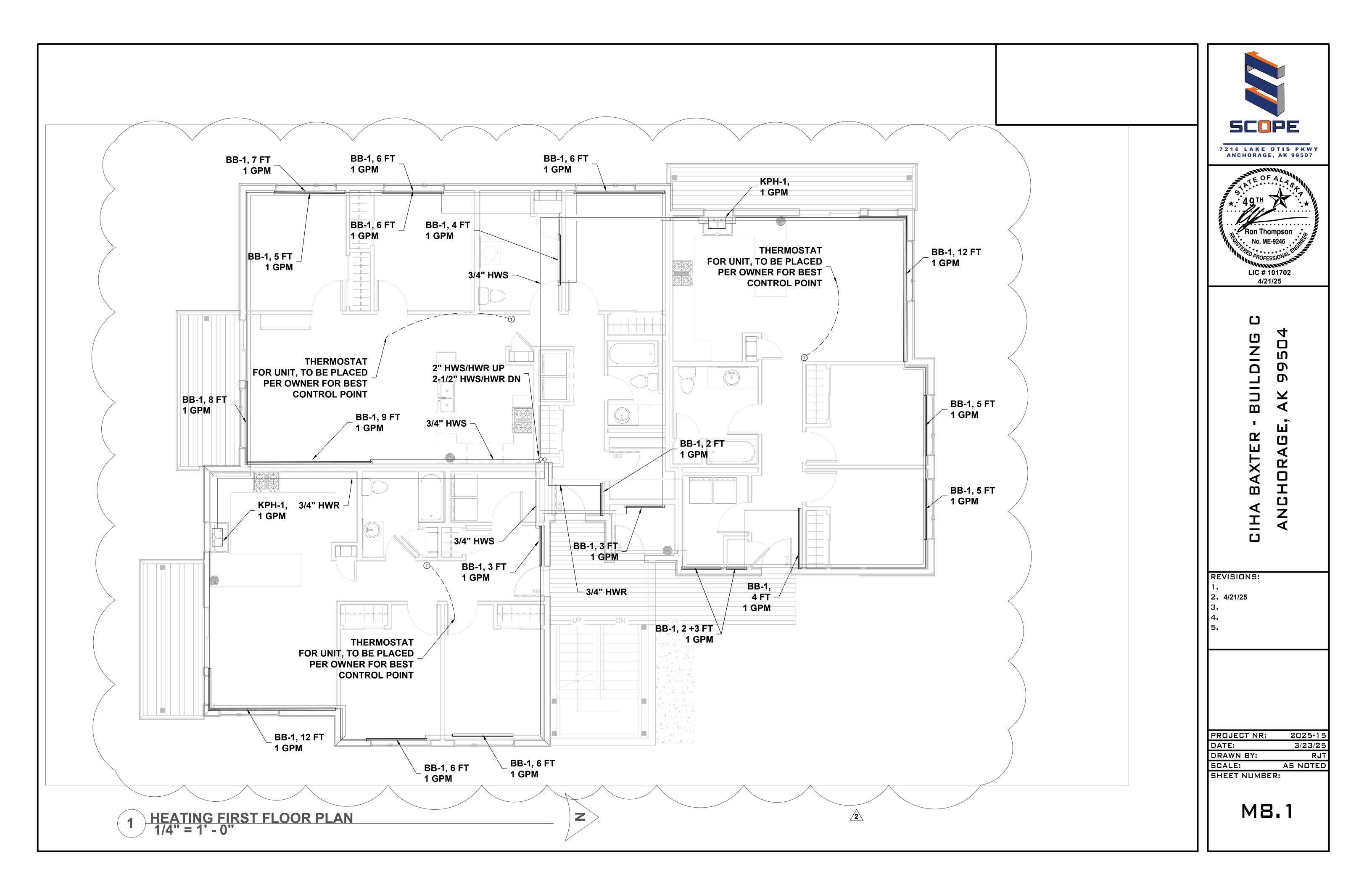


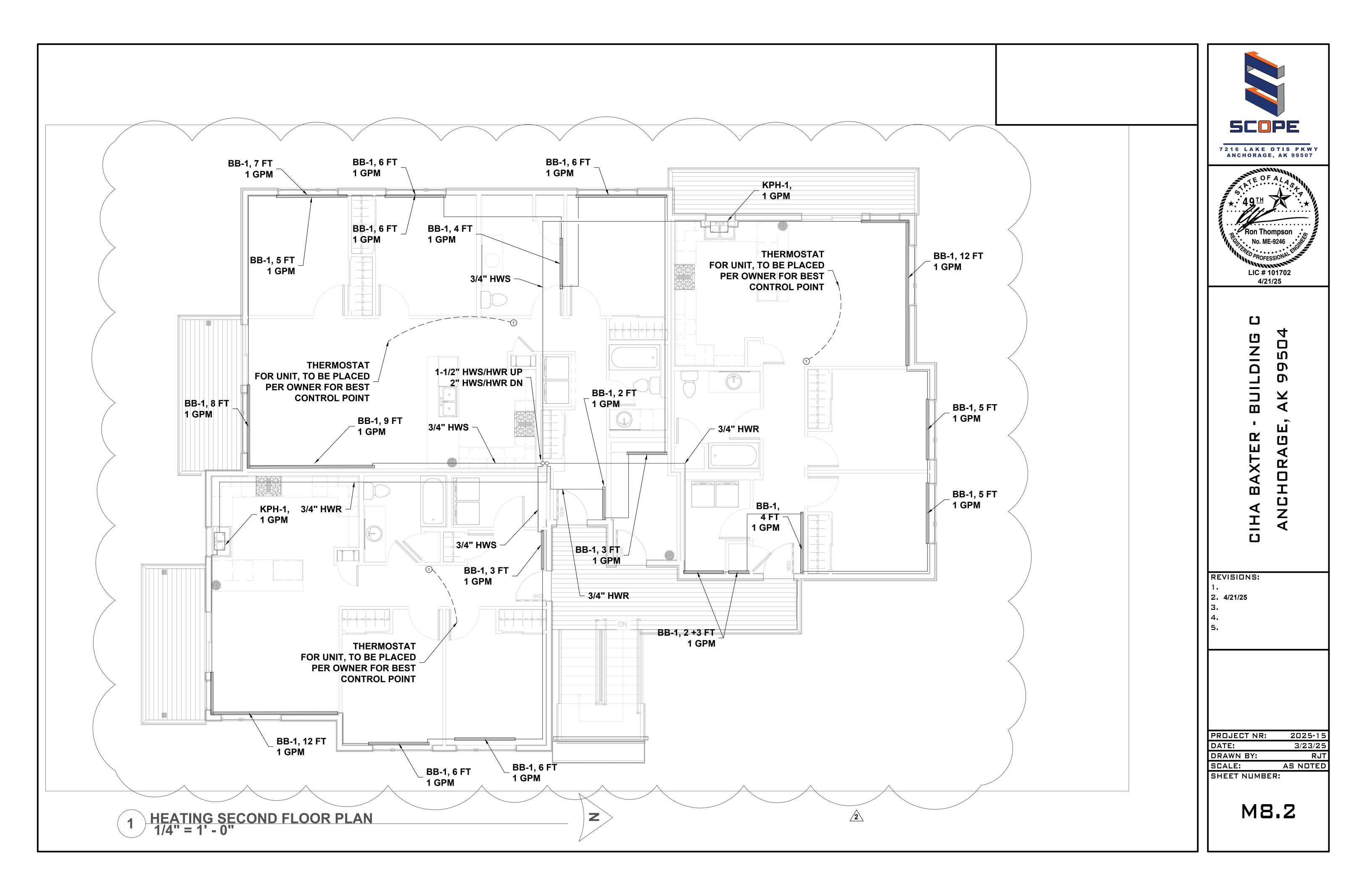
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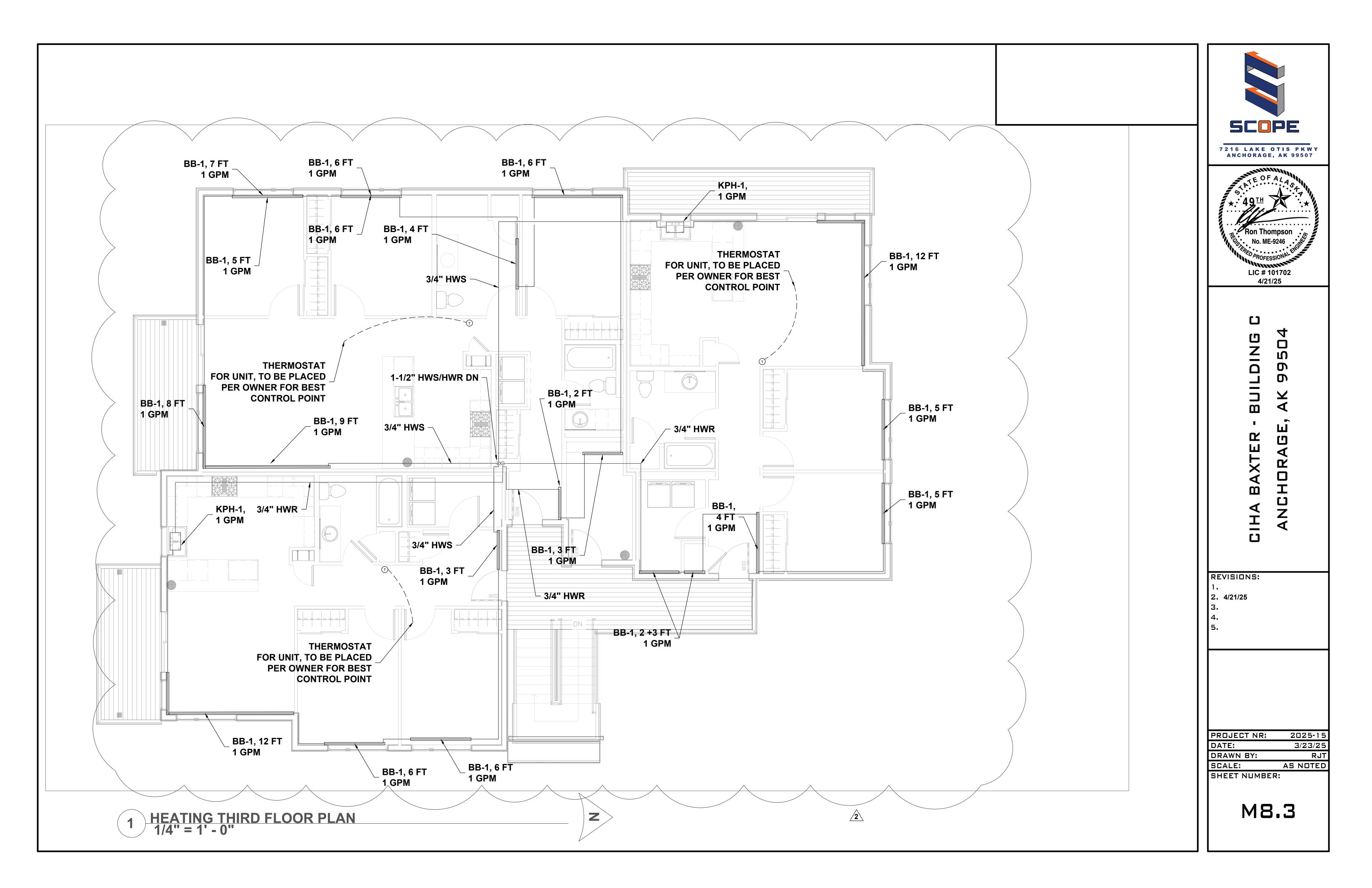
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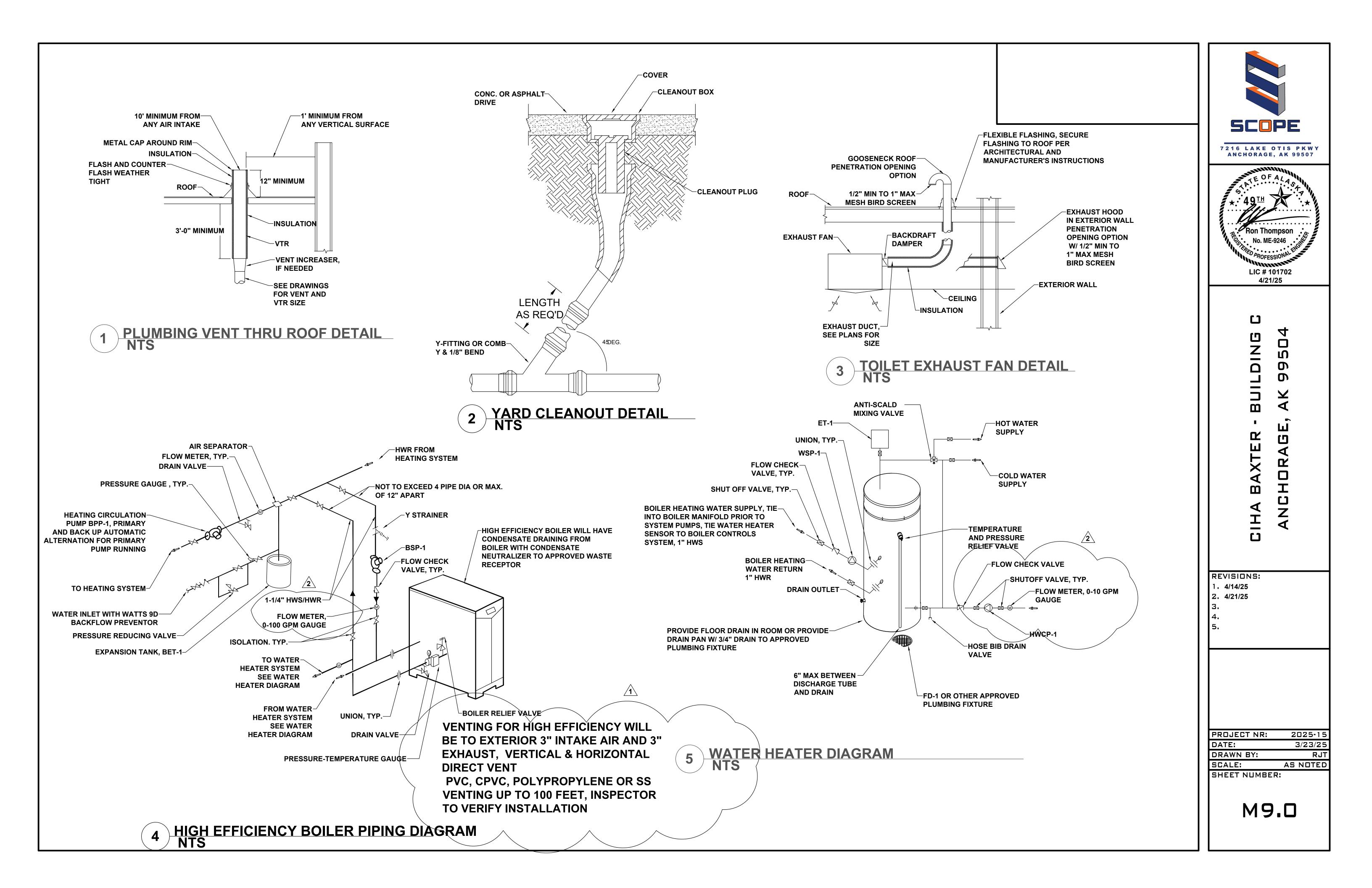
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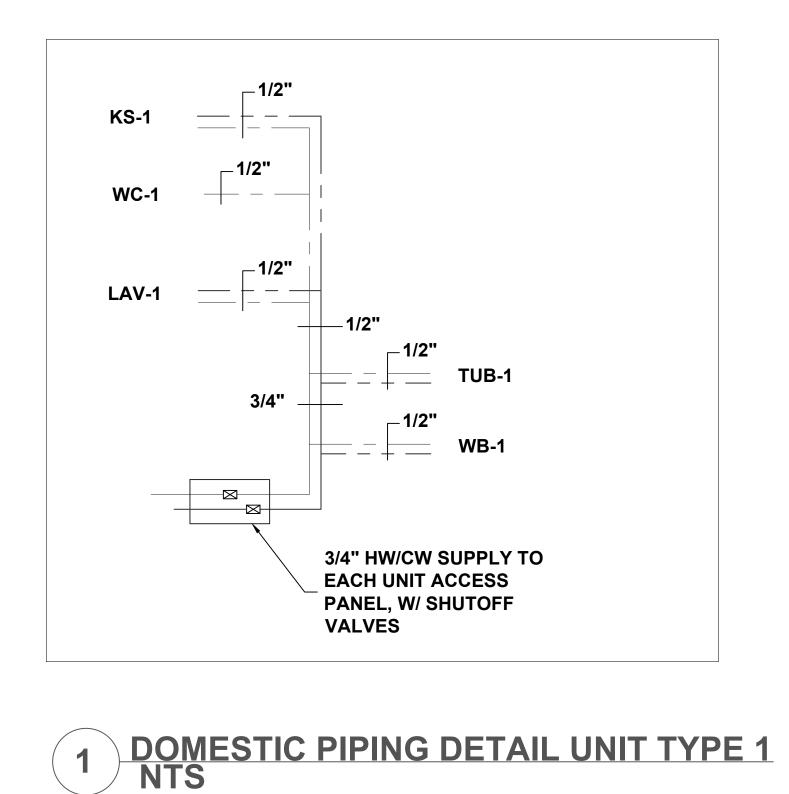
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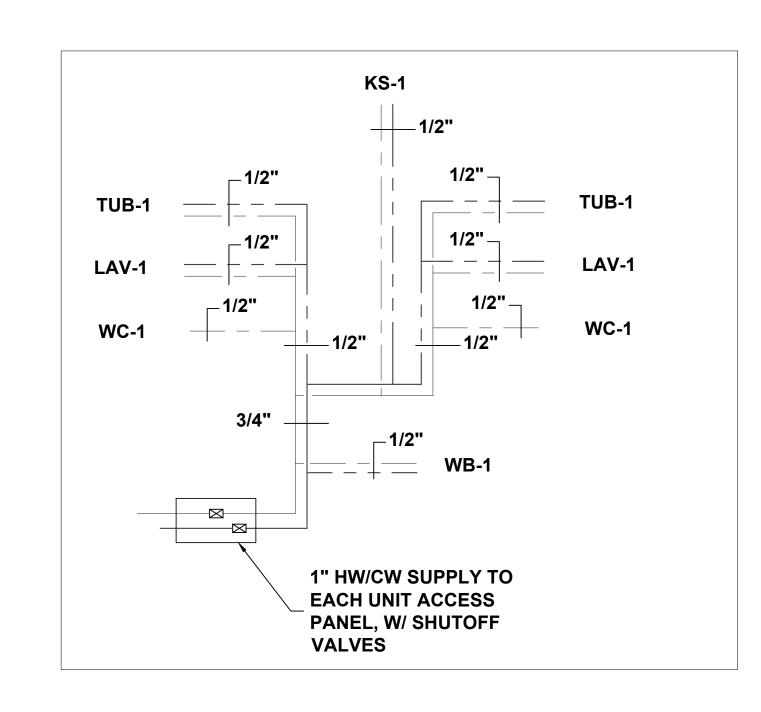


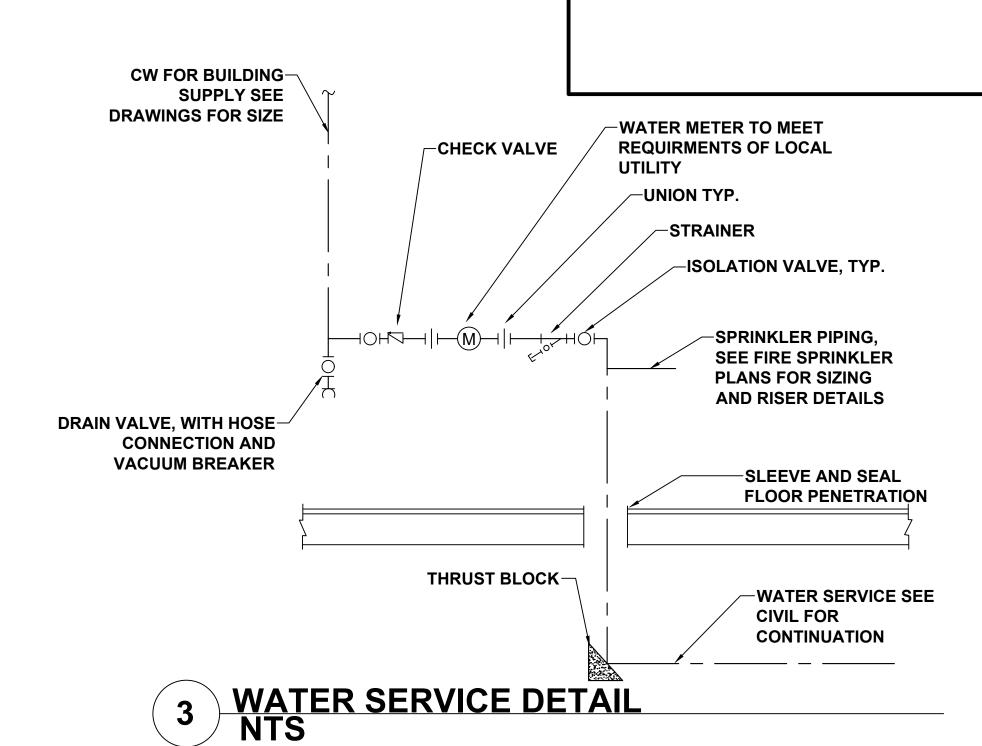












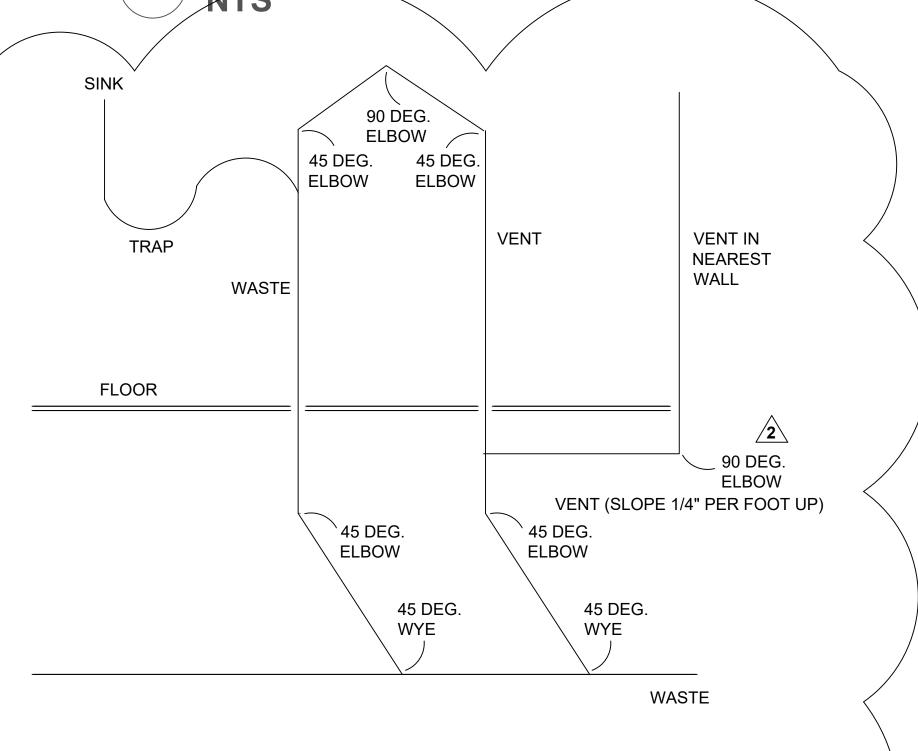
1/2" CW SUPPLY
ISOLATION VALVE
TRAP PRIMER ASSEMBLY
WITH INTEGRAL AIR GAP

ACCESS PANEL
1/2" NOM COPPER
SUPPLY TUBE

DISTRIBUTION UNIT (IF
REQUIRED)
1/2" NPT FITTING,
(TYP of 4)
SLEEVE AND SEAL
FLOOR PENETRATION

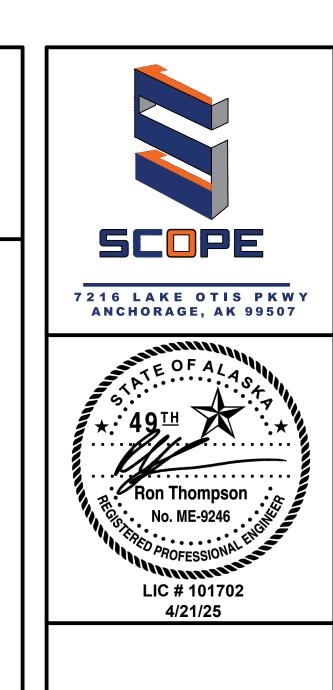
1/2" PEX TUBING TO
FLOOR DRAIN

TRAP PRIMER DETAIL
NTS



DOMESTIC PIPING DETAIL UNIT TYPE 2

5 ISLAND VENT DETAIL
NTS



CIHA BAXTER - BUILDING C ANCHORAGE, AK 99504

REVISIONS:
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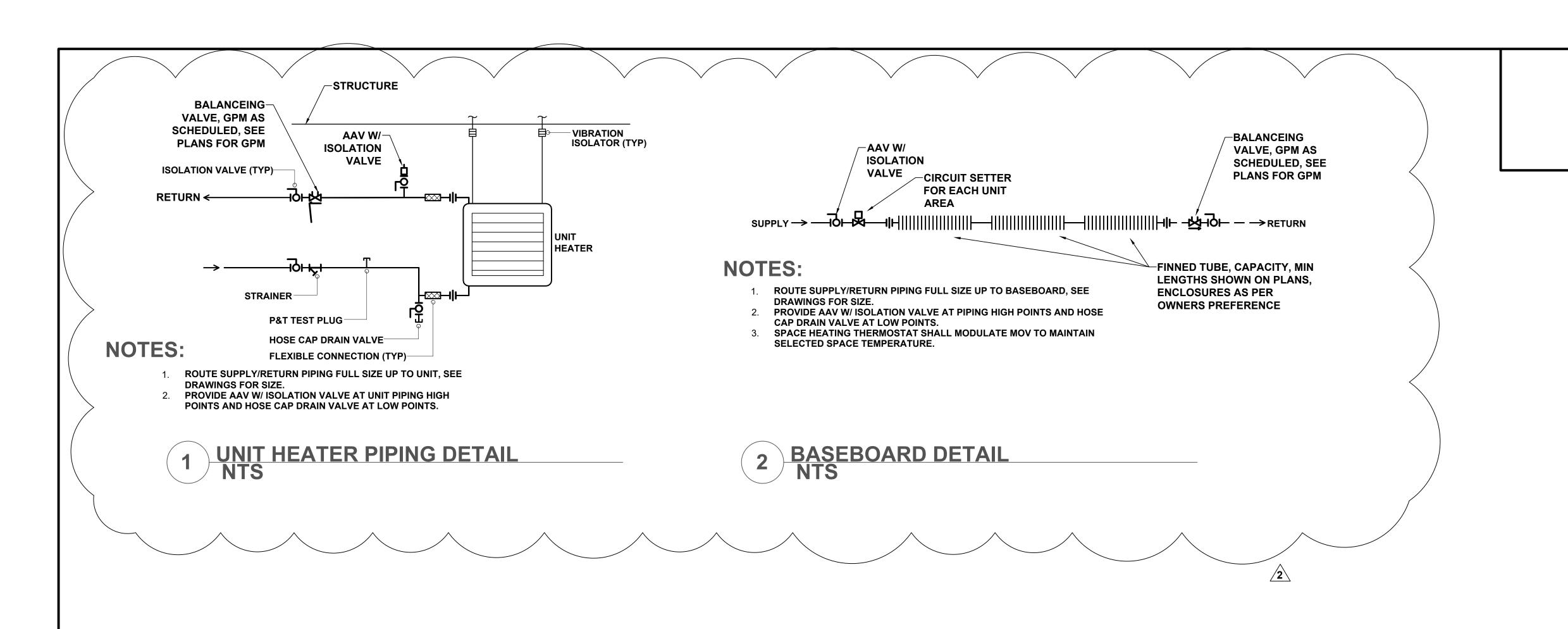
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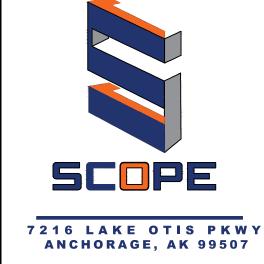
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CIHA BAXTER - BUILDING C

REVISIONS:

2. 4/21/25

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PROJECT NR: 2025-15
DATE: 3/23/25

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M9.2