

APPROVAL STAMPS

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MINIMUM CUBIC FEET	MINIMUM CUBIC FEET	MINIMUM CUBIC FEET	MINIMUM CUBIC FEET	MINIMUM CUBIC FEET
	WATER CLOSETS					
P10	AMERICAN STANDARD "CADET PRO" MODEL 215AA 004 HEIGHT ELONGATED BOWL, FLOOR MOUNTED, WHITE, TANK TYPE: 1.6 GPF BOLT CAPS AND WHITE CLOSET FRONT SEAT WITH COVER WITH SLOW CLOSE STAINLESS STEEL CHECK KINGS AND ANGLE SUPPLY WITH WHEEL HANDLE STOPS	12"	-	-	3"	1-1/2"
	LAVATORIES					
	PROVIDE COMPLETE UNDER LAVATORY ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURED BY PLUMBEREX SPECIALTY PRODUCTS, INC. OR TRUERO, INC. ON ALL HANDICAPPED LAVATORIES WHERE PIPING IS EXPOSED AND NO APPROXIMABLE PANEL IS PROVIDED.					
P20	LAVATORY BOWL, INTEGRAL WITH COUNTERTOP, SEE ARCHITECTURAL FINISH SPECIFICATIONS FAUCET: MOEN "GIBSON" MODEL 61688P FAUCET, DUAL LEVER HANDLES, 1.2 GPM, CHROME FINISH ACCESSORIES: POP-UP DRAIN ASSEMBLY	12"	12"	1-1/4"	1-1/2"	1-1/2"
	UPGRADE OPTIONS BASIN: AMERICAN STANDARD "RELIANT OVAL" MODEL 068020 020, VITREOUS CHINA, UNDERMOUNT, 17" WIDE X 14" LONG X 5-1/2" DEEP, FRONT OVERFLOW, WHITE FINISH FAUCET: MOEN "GIBSON" MODEL 61688P FAUCET, DUAL LEVER HANDLES, 1.2 GPM, MATTE BLACK FINISH					
	SINKS					
	PROVIDE COMPLETE UNDER SINK ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURED BY PLUMBEREX SPECIALTY PRODUCTS, INC. OR TRUERO, INC. ON ALL HANDICAPPED SINKS WHERE PIPING IS EXPOSED AND NO APPROXIMABLE PANEL IS PROVIDED					
P40	BASIN: ELKAY "CROSSTOWN" MODEL HDL2189F, STAINLESS STEEL, SINGLE BOWL, UNDERMOUNT SINK, 18-1/2" WIDE X 31-1/2" LONG X 9" DEEP FAUCET: MOEN "ARBO" MODEL 794SR5 FAUCET SINGLE HOLE, SINGLE LEVER HANDLE, HIGH ARC SPOUT, PULLDOWN SPRAY, 1.5 GPM, CHROME FINISH, COORDINATE NUMBER OF FAUCET / ACCESSORY HOLES NEEDED FOR INSTALLATION ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY, DO NOT INSTALL INCLUDED DECKPLATE, PROVIDE "WYE" FITTING AND CLEAN OUT ADAPTER DOWNSTREAM OF THE P-TRAP IN BASE CABINET PROVIDE CONNECTION TO FOOD WASTE GRINDER, REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON FOOD DISPOSER, COORDINATE LOCATION OF PUSH BUTTON, COUNTER MOUNTED AIR SWITCH	12"	12"	1-1/2"	2"	1-1/2"
	UPGRADE OPTIONS BASIN: AMERICAN STANDARD "ELANCEY" MODEL 71883022A 308, CAST IRON, SINGLE BOWL, UNDERMOUNT FARMHOUSE SINK, 30" LONG X 22" WIDE X 8-3/4" DEEP FAUCET: MOEN "ARBO" MODEL 794SR5 FAUCET SINGLE HOLE, SINGLE LEVER HANDLE, HIGH ARC SPOUT, PULLDOWN SPRAY, 1.5 GPM, MATTE BLACK FINISH, COORDINATE NUMBER OF FAUCET / ACCESSORY HOLES NEEDED FOR INSTALLATION ACCESSORIES: HOT WATER DISPENSER, INSINKERATOR "HOT2GO" MODEL X20MBLX-SS, SINGLE HOLE, SINGLE LEVER HANDLE, INSTANT HOT WATER DISPENSER, 2/31 GALLON WATER TANK, ADJUSTABLE FROM 180 DEGREES TO 210 DEGREES, 115 VOLT, 750 WATTS, 6.5 AMPS SOAP DISPENSER: MOEN MODEL 53486 WITH CHROME FINISH OR MODEL 53486BL WITH MATTE BLACK FINISH DRAIN PIPING: PROVIDE CAST IRON DRAIN PIPING P HOT WATER DISPENSER IS SELECTED, REFER TO PIPING MATERIALS (SHEET P010) AND PROJECT SPECIFICATIONS (SHEET P011) FOR ADDITIONAL INFORMATION					
	SHOWERS/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 HANDS WITH ON/OFF CAPABILITY.					
P60	SURROUND WALLS AND FLOOR TO BE TILE. SEE ARCHITECTURAL FINISH SPECIFICATIONS SHOWER TRIM: MOEN "JASO" MODEL T2166 POST/TEMP, CHROME, TEMPERATURE AND PRESSURE BALANCING MIXING SHOWER VALVE WITH INTEGRAL TRANSFER VALVE, FIELD INSTALLED CHECK STOPS, MODEL 3667EP 81 INCH ULTRA-FLEX HOSE, 1.75 GPM 4 FUNCTION HAND SHOWER, VACUUM BREAKER, AND 3/8" SLIDE BAR, MODEL 6548BN SINGLE FUNCTION 1.75GPM SHOWER HEAD, CHROME FINISH, PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES DRAIN: PROVIDE SQUARE, 2" CHROME FINISH SHOWER DRAIN	12"	12"	2"	2"	1-1/2"
	UPGRADE OPTIONS SHOWER TRIM: MOEN "JASO" MODEL T2166A POST/TEMP, TEMPERATURE AND PRESSURE BALANCING MIXING SHOWER VALVE WITH INTEGRAL TRANSFER VALVE, FIELD INSTALLED CHECK STOPS, MODEL 3667EP 81 INCH ULTRA-FLEX HOSE, 1.75 GPM 4 FUNCTION HAND SHOWER, VACUUM BREAKER, AND 3/8" SLIDE BAR, MODEL 6548BN SINGLE FUNCTION 1.75GPM SHOWER HEAD, MATTE BLACK FINISH, PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES SHOWER HEAD: MOEN MODEL 5115, 10" RAINFALL, SHOWER HEAD, CHROME OR MATTE BLACK FINISH DRAIN UPGRADE: PROVIDE SQUARE, 2" MATTE BLACK FINISH SHOWER DRAIN					
	MISCELLANEOUS					
P70	WASHING MACHINE CONNECTION BOX, UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF MINIMUM 20 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS, UNIT SHALL BE FITTED WITH 2-INCH DRAIN CONNECTION, SUPPLY HOSE CONNECTIONS AS REQUIRED, WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010 BOXES LOCATED ON RATED CORRIDOR OR RATED UNIT SEPARATION WALL SHALL BE A FIRE-RATED BOX ASSEMBLY APPROVED FOR FIRE-RATED INSTALLATION, EXACT CONFIGURATION OF WATER SUPPLIES AND DRAIN LOCATION SHALL BE VERIFIED IN FIELD TO SUIT FIELD CONDITIONS, AVOID CONFLICT WITH DRYER EXHAUST, ELECTRICAL COMPONENTS, WALL FRAMING, ETC.	12"	12"	2"	2"	1-1/2"
P71	ICE MAKER CONNECTION BOX, UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF MINIMUM 20 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS, UNIT SHALL BE FITTED WITH SUPPLY VALVE AND WATER HAMMER ARRESTOR, 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 TRIMBASEBOARD, FIELD VERIFY EXACT LOCATION.	12"	-	-	-	-
PPW4	FREEZEPROOF WALL HYDRANT, EQUAL TO WOODFORD MODEL 465, AUTOMATIC DRAINING CHROME-PLATED WALL HYDRANT, MOUNT 24" ABOVE FINISHED GRADE, UNLESS WALL CONSTRUCTION MATERIALS INDICATE ALTERNATE MOUNTING HEIGHT, FIELD VERIFY EXACT LOCATION.	3/4"	-	-	-	-
TP	PROVIDE BRONZE, TRAP PRIMER VALVE WITH AUTOMATIC VACUUM BREAKER CONPLYING WITH ASSE 1010 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.	12"	-	-	-	-

- FIXTURES SHALL BE PROVIDED WITH ALL ITEMS, ARTICLES, MATERIALS AND INCIDENTALS, AS REQUIRED, INCLUDING ALL LABOR NECESSARY FOR A COMPLETE PLUMBING INSTALLATION.
- 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.
- PROVIDE INDIVIDUAL STOPS ON ALL PLUMBING FIXTURES.
- ALL LAVATORY, SINK AND SIMILAR FIXTURE TRAPS, INCLUDING THOSE MOUNTED IN CASEWORK, SHALL BE CHROME PLATED, CAST BRASS, MINIMUM 17-GAUGE, ADJUSTABLE TYPE WITH CLEANOUT PLUG.
- PROVIDE CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES AT FIXTURE SUPPLY THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.
- 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.
- PROVIDE CHROME PLATED ESCUTCHEONS AT ALL FIXTURE SUPPLY AND WASTE PIPE PENETRATIONS THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.
- ALL WATER CLOSET FLUSHING MECHANISMS ON HANDICAP WATER CLOSETS SHALL BE INSTALLED ON THE "WIDE SIDE" OF EACH WATER CLOSET TO MAINTAIN ADA ACCESSIBILITY.
- PROVIDE INLET CHECK STOPS ON ALL FIXTURES (I.E. SHOWERS VALVES AND SIMILAR FIXTURES) SUSCEPTIBLE TO BACKFLOW/CROSS CONNECTION SITUATIONS.
- 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., WIDE DIVISION/XYLER PIPE.
- 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.
- 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.
 - VITREOUS CHINA PLUMBING FIXTURES: AMERICAN STANDARD, SLOAN, KOHLER, PROFLO, ZURN
 - STAINLESS STEEL SINKS: ELKAY, DAYTON, JUST, PROFLO
 - FAUCETS, SHOWER VALVES AND TRIM: AMERICAN STANDARD, KOHLER, SLOAN, ELKAY, MOEN, T&S BRASS, DELTA, CHICAGO, PROFLO
 - SHOWERS: COMFORT DESIGNS, BEST BATH, AQUA BATH, AQUARIUS, AMERICAN STANDARD, KOHLER, AQUATIC (LASCO)
- PROVIDE SHOP DRAWINGS/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED ABOVE IN PLUMBING FIXTURE SCHEDULE.
- 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.

GENERAL PLUMBING NOTES

- ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL CODES, AMENDMENTS AND ORDINANCES.
- THE PLUMBING CONTRACTOR SHALL DETERMINE NECESSARY INVERT ELEVATIONS FOR PROPER DRAINAGE AND CONNECTION INTO SEWERS. ALL INVERT ELEVATIONS SHALL BE SET PRIOR TO INSTALLATION.
- 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.
- PLUMBING CONTRACTOR SHALL NOT CORE, DRILL, OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
- 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 IN A CONCEALED MANNER.
- PLUMBING CONTRACTOR SHALL AVOID LOCATING H/WV PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHERE THIS CONDITION MAY OCCUR PRIOR TO ROUGH-IN.
- 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.
- COORDINATE ROUTING OF ALL PIPING WITH THE ELECTRICAL CONTRACTOR SO AS NOT TO ROUTE ANY PLUMBING LINES OVER ELECTRICAL PANELS, SWITCHGEAR, ETC.
- ACCESS DOORS TO VALVES, CLEANOUTS AND ETC. TO BE EQUAL TO "ACUODOR" 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.
- 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.
- 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.
- INSTALL PLUMBING VENTS THROUGH ROOF A MINIMUM OF 24" FROM EDGE OF ROOF AND/OR PARAPET WALLS. LOCATE ALL VENTS THROUGH ROOF A MINIMUM OF 10' 0" FROM ALL OUTSIDE AIR INTAKES.
- ALL UNDERGROUND PLUMBING PIPING SUBJECT TO FREEZING SHALL BE INSTALLED BELOW LOCAL AREA FROST LINE MINIMUM. VERIFY SITE FROST DEPTH.
- COORDINATE LOCATION OF ALL BELOW GRADE PIPING WITH STRUCTURAL FOUNDATIONS, FOOTINGS, GRADE BEAMS, ETC. TO AVOID CONFLICT.

PIPING INSULATION SCHEDULE

PIPING SYSTEM TYPE (OPERATING TEMPERATURE RANGE)	PIPING SIZE RANGE	INSULATION THICKNESS	INSULATION JACKET	VAPOR BARRIER	REMARKS
DOMESTIC COLD WATER PIPING (40°F - 80°F)	1/2" TO 1-1/4" 1-1/2" AND LARGER	1/2" 1"	ASJ	YES	1, 2, 3
DOMESTIC HOT WATER SUPPLY AND RETURN PIPING (105°F - 160°F)	1/2" TO 1-1/4" 1-1/2" AND LARGER	1" 1-1/2"	ASJ	NO	1, 2, 3
REMARKS: 1. PIPING MATERIAL TO BE GLASS FIBER, PREFORMED PIPE INSULATION, INSTALL PER MANUFACTURERS RECOMMENDATIONS. 2. INSULATION THICKNESS LISTED IS MINIMUM REQUIRED. INSULATION THICKNESS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL ENERGY CODES. 3. ASJ = ALL SERVICE JACKET					

PLUMBING DRAINS/CLEANOUT SCHEDULE

PROVIDE SHOP DRAWINGS/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW.	
C4	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.
EQ2	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.) 1. FOR AREAS WHERE CARPET WILL BE INSTALLED PROVIDE ROUND ADJUSTABLE CLEANOUT WITH CARPET MARKER. 2. IN AREAS SUBJECT TO TRAFFIC (I.E. PARKING GARAGES, PARKING SPACES AND SIMILAR SPACES) PROVIDE HEAVY DUTY TRAFFIC RATED CLEANOUT COVER.
GC2	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.)
WC2	PROVIDE CLEANOUT IN VERTICAL PIPE WITH STAINLESS STEEL ACCESS COVER. (WHERE PIPES ARE CONCEALED IN WALLS OR CHASES)

EQUIPMENT SCHEDULE

PROVIDE SHOP DRAWINGS/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW. PROVIDE EQUIPMENT TAGS PER SPECIFICATIONS FOR ALL ITEMS LISTED IN THIS SCHEDULE.	
WH1	WATER HEATER - EQUAL TO A.Q. SMITH MODEL NO. DEN52, 4.5 KW, 208V, 1 PHASE. HEATER TO HAVE 95 GALLON NOMINAL STORAGE CAPACITY WITH RECOVERY CAPACITY OF 25 GPM AT 72°F TEMPERATURE RISE.
ET1	THERMAL EXPANSION COMPENSATOR - EQUAL TO AMTROL ST-5, 2.0 GALLON CAPACITY.
BFP1	BACKFLOW PREVENTER - DOMESTIC WATER - DUAL CHECK VALVE EQUAL TO WATTS MODEL NO. LFR1, LEAD FREE, ASSE 108 CERTIFIED.
Q21	HOT WATER REGULATION PUMP - EQUAL TO TACO PUMP MODEL NO. D96 WITH CAPACITY OF 3 GPM @ 6 FT HEAD, 140 HP, 115V, 1 PHASE, 0.52 AMPS WITH STAINLESS STEEL CONSTRUCTION.

PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

DIRECTION OF FLOW		AAV	AIR ADMITTANCE VALVE
PIPE TURNING UP		AD	AREA DRAIN
PIPE TURNING DOWN		AFF	ABOVE FINISHED FLOOR
BRANCH CONNECTION - TOP		AFO	ABOVE FINISHED GRADE
BRANCH CONNECTION - BOTTOM		AU	AUTHORITY HAVING JURISDICTION
BRANCH CONNECTION - SIDE		BFP	BACKFLOW PREVENTER
SERVICE VALVE (BALL OR GATE)		BP	BOOSTER PUMP
SERVICE VALVE (BUTTERFLY)		BTUH	BRITISH THERMAL UNIT/HOUR
CHECK VALVE		CFH	CUBIC FEET PER HOUR
DIELECTRIC UNION		CLG	CLEANING
PIPE CAP OR BLIND FLANGE		CO	CLEANOUT
OUTLETS/FIXTURE STOPS (GAS, AIR, VACUUM, OXYGEN)		CP	CIRCULATION PUMP
PRESSURE REDUCING VALVE		CW	COLD WATER
FLEXIBLE PIPE CONNECTION OR JOINT		DD	DECK DRAIN
HOSE BIBB OR FREEZEPROOF WALL HYDRANT		DFU	DRAINAGE FIXTURE UNITS
GAS SHUT-OFF VALVE		DN	DOWN
GAS SOLENOID VALVE		DWV	DRAINAGE, WASTE AND VENT
CONNECT NEW TO EXISTING		EA	EACH
POINT OF DISCONNECTION		ET	EXPANSION TANK
COLD WATER PIPING		EX	EXISTING
HOT WATER SUPPLY (NUMBER DENOTES TEMPERATURE, NO NUMBER INDICATES 120°F TEMPERATURE SYSTEM)		F	FAN/DEWET
HOT WATER RETURN (NUMBER DENOTES TEMPERATURE, NO NUMBER INDICATES 120°F TEMPERATURE SYSTEM)		FCO	FLOOR CLEANOUT
SANITARY SEWER PIPING		FD	FLOOR DRAIN
VENT PIPING		FTE	FINISHED FLOOR ELEVATION
ROOF DRAIN STORM PIPING		FL	FLOOR
OVERFLOW DRAIN STORM PIPING		FWH	FREEZEPROOF WALL HYDRANT
GREASE WASTE PIPING		FT	FEET
NATURAL GAS PIPING		FU	FIXTURE UNITS (WATER)
RISER TAG REFERENCE		G	GAS
SOME SYMBOLS ABOVE MAY BE SHOWN WITH DOUBLE LINE PIPING IN LIEU OF SINGLE LINE PIPING AND MAY NOT APPEAR AS INDICATED ABOVE. THESE SYMBOLS WILL BE NOTED ON PLANS WHERE APPLICABLE.		GAL	GALLON
		GCO	GRADE CLEANOUT
		GPH	GALLONS PER HOUR
		GPM	GALLONS PER MINUTE
		GW	GREASE WASTE
		H8	HOSE BIBB
		H9	HEAD
		HP	HORSEPOWER
		HW	HOT WATER
		HWR	HOT WATER RETURN
		E	INVERT ELEVATION
		KW	KILOWATT
		L	LAVATORY
		NC	NORMALLY CLOSED
		NO	NORMALLY OPEN
		OD	OVERFLOW DRAIN
		PD	PUMP DISCHARGE
		PD	PARKING DECK DRAIN
		PRV	PRESSURE REDUCING VALVE
		PVC	POLYVINYL CHLORIDE
		RD	ROOF DRAIN
		SD	STORM DRAIN
		SEP	SEWAGE ELECTOR PUMP
		SF	SQUARE FEET
		SH	SHOWER
		SP	SUMP PUMP
		TD	TRENCH DRAIN
		TM	THERMOSTATIC MIXING VALVE
		TP	TRAP PRIMER
		V	VENT
		VTR	VENT THRU ROOF
		W	WASTE
		WC	WATER COLUMN
		WCO	WALL CLEANOUT
		WH	WATER HEATER
		WHA	WATER HAMMER ARRESTOR
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.			

PROJECT TITLE

Collington
A KENDAL AFFILIATE

INDEPENDENT LIVING
CONSTRUCTION DOCUMENTS

SFCS | Architecture
Engineering
Planning
Interiors

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DESIGNER : JGB	DRAWN : TMH/MAH
ARCHITECT : KAT, NSS	CHECKED : DPW/MAH/TMH
ENGINEER : AJM	APPROVED : AJM
NO.	REVISION DESCRIPTION DATE

DRAWING TITLE

PLUMBING - LEGENDS,
ABBREVIATIONS AND
SCHEDULES

DATE: MAY 28, 2026	DRAWING
COMM. NO. 18135.00	

P0.00

APPROVAL STAMPS

PLUMBING SPECIFICATIONS

GENERAL:

- APPLICABLE PROVISIONS OF THE GENERAL FOR MECHANICAL AND ELECTRICAL INSTALLATIONS, GENERAL AND SPECIAL CONDITIONS AND INSTRUCTIONS TO BIDDERS AND ALL OTHER CONTRACT DOCUMENTS, GOVERN WORK UNDER THIS SECTION.
- THE CONTRACTOR SHALL PROVIDE ALL ITEMS, ARTICLES, MATERIALS, OPERATIONS OR METHODS LISTED, MENTIONED, OR SCHEDULED ON THE DRAWINGS AND INCIDENTALS NECESSARY AND REQUIRED FOR COMPLETION OF THEIR WORK.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH STATE AND LOCAL PLUMBING CODES, STATE AND LOCAL BUILDING CODES, AND NFPA, AWWA, CFSI, AND ASPE STANDARDS.
- ALL MATERIALS AND/OR EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND WRITTEN INSTRUCTIONS.
- INSTALL GROUPS OF PIPES PARALLEL TO EACH OTHER, SPACED TO PERMIT APPLYING INSULATION AND SERVICING OF VALVES, WITH SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.
- CAP OR PLUG ALL OPENINGS IN PIPES DURING CONSTRUCTION TO KEEP OUT DIRT AND RUBBISH.
- FIRE-BARRIER PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS. REFER TO OTHER DIVISION SPECIFICATIONS FOR "PENETRATION FIRESTOPPING" MATERIALS.
- PROVIDE SUBMITTALS/SHOP DRAWINGS FOR ALL ITEMS, FIXTURES, EQUIPMENT, ACCESSORIES, ETC. INDICATED IN THESE SPECIFICATIONS.

WORK INCLUDED:

- THIS SECTION INCLUDES THE FURNISHING AND INSTALLATION OF ALL NECESSARY LABOR, MATERIALS, FEES, EQUIPMENT AND INCIDENTALS TO COMPLETE INSTALLATION OF ALL PLUMBING AND DRAINAGE AS SHOWN ON DRAWINGS AND AS HEREIN SPECIFIED.
- ALSO INCLUDED ARE ANY MATERIALS OR DEVICES IN ACCORDANCE WITH THE BEST METHODS FOR FIRST CLASS PRACTICE AND ALL APPLICABLE LAWS OF THE STATE BOARD OF HEALTH.
- ALL WORK TO BE INSPECTED AND APPROVED BY THE LOCAL PLUMBING INSPECTOR AND THE PLUMBING OFFICE OF THE STATE BOARD OF HEALTH. ALL INSTALLATIONS MUST BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND AUTHORITY HAVING JURISDICTION.

SOL, WASTE AND VENT PIPING:

- SOL, WASTE AND VENT PIPING INSIDE BUILDING SHALL BE SOLID CORE SCHEDULE 40 DWV PVC PIPE AND SOLVENT CEMENT DRAINAGE PATTERN FITTINGS.
- UPGRADE IF HOT WATER DISPENSER IS SELECTED: PROVIDE HUB AND SPOUT, SERVICE CLASS, CSPT LABELED, CAST-IRON SOL PIPE WITH DWV PATTERN FITTINGS, GASKETS AND GASKETED JOINTS FOR ABOVEGROUND WASTE PIPING. PROVIDE 10 FEET OF IRON PIPING BELOW SLAB IF HOT WATER DISPENSER IS SELECTED.
- PROVIDE CSPT LABELED, CAST IRON SOL PIPE AND DWV PATTERN FITTINGS WITH CSPT LABELED HUBLESS COUPLINGS AND COUPLED JOINTS FOR ABOVEGROUND WASTE PIPING. ENSURE ALL METALLIC WASTE PIPING IN BASE CABINET LEAD-ACID WATER DISPENSER IS SELECTED.
- ALL FITTINGS AND CONNECTION METHODS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- HORIZONTAL PIPING SLOPED AT MINIMUM CODE REQUIRED SLOPE. ALL BRANCHES SHALL BE WITH WYE BRANCH FITTINGS.
- ALL FIXTURES VENTED ACCORDING TO CODE.
- ALL DRAINAGE AND VENT SYSTEM PIPING RUN IN PIPE SPACES, FURRED SPACES, CHASES, WALLS AND PARTITIONS UNLESS OTHERWISE SHOWN OR PERMITTED.

CLEANOUTS:

- INSTALL CLEANOUTS WHERE INDICATED ON DRAWINGS, AND IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.

WATER PIPING:

- UNDER BUILDING SLAB DOMESTIC WATER PIPING SHALL BE: WATER SERVICE, ANNEALED COPPER TUBE, TYPE "K", WROUGHT COPPER, COPPER PIPING ROUTED BELOW SLAB SHALL BE CONTINUOUS RUN WITH NO FITTINGS OR JOINTS.
- RESIDENT UNIT PIPING DOWNSTREAM OF UNIT SHUT-OFF VALVE: PEX TUBING, PEX PIPING ROUTED BELOW SLAB SHALL BE CONTINUOUS RUN WITH NO FITTINGS OR JOINTS.
- ABOVE GROUND DOMESTIC WATER PIPING SHALL BE: DOMESTIC HOT / COLD / HOT WATER RETURN PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER WITH WROUGHT SOLDER FITTINGS.
- DOMESTIC HOT / COLD / HOT WATER RETURN PIPING 1" AND SMALLER LOCATED DOWNSTREAM OF THE UNIT SHUT-OFF VALVE SHALL BE ONE OF THE FOLLOWING: PEX TUBING, WITH METAL INERT FITTINGS AND COPPER CRIMP RINGS; PEX TUBING, WITH COLD EXPANSION FITTINGS AND REINFORCING RINGS; DRAWN TEMPERED COPPER TUBE, TYPE "L", WROUGHT COPPER, SOLDERED JOINT FITTINGS AND SOLDERED JOINTS.
- EXTEND HOT AND COLD WATER PIPING THROUGH BUILDING AND CONNECT TO ALL FIXTURES REQUIRING SAME.
- ALL COPPER JOINTS TO BE ASSEMBLED WITH LEAD FREE SOLDER.
- EACH FIXTURE SHALL HAVE ESCUTCHEONS AT WALL PENETRATION AND STOPS ON SUPPLIES.
- PROVIDE EXPANSION LOOPS IN ACCORDANCE WITH PIPING MANUFACTURERS REQUIREMENTS.

WATER VALVES:

- FURNISH AND INSTALL BALL VALVES WHERE INDICATED ON DRAWINGS. ALSO, INSTALL OUT-OFF VALVES ON EACH PIECE OF EQUIPMENT SO THAT SAME MAY BE ISOLATED FROM THE SYSTEM.
- VALVES SHALL BE FULL PORT, TWO (2) PIECE LEAD FREE BRASS BALL VALVES.

HANGERS:

- ALL HORIZONTAL AND VERTICAL PIPING ABOVE GROUND SHALL BE SUPPORTED IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.

ACCESS PANELS:

- FURNISH AND INSTALL ACCESS PANELS, SIZE AS REQUIRED TO OPERATE VALVES, WHERE INDICATED ON THE DRAWINGS AND WHERE VALVES ARE NON ACCESSIBLE/CONCEALED. FIRE RATED ACCESS PANELS SHALL BE PROVIDED IN FIRE RATED ASSEMBLIES.

SLEEVES/SLEEVES/SEALS/ESCUTCHEONS:

- PROVIDE ESCUTCHEONS AT ALL LOCATIONS WHERE PIPING IS EXPOSED IN SPACES OR CABINETS AT FIXTURE SUPPLIES, WASTE KINGS, ETC.

GAUGES AND THERMOMETERS:

- PROVIDE PRESSURE GAUGES WHERE INDICATED ON PLANS.
- PRESSURE GAUGES FOR WATER PIPING SHALL BE LIQUID FILLED, MINIMUM 2" DIAMETER, METAL CASE WITH MINIMUM PRESSURE RANGE OF 7 TO 100 PSI. PROVIDE EXTENSIONS AND ALL REQUIRED MOUNTING HARDWARE, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION.
- PROVIDE THERMOMETERS WHERE INDICATED ON PLANS.
- THERMOMETERS SHALL BE METAL CASE, COMPACT, LIQUID IN GLASS TYPE WITH MINIMUM TEMPERATURE RANGE OF 49° TO 100° FOR COLD WATER PIPING, AND 0° TO 200° FOR HOT WATER PIPING. PROVIDE EXTENSIONS AND ALL REQUIRED MOUNTING HARDWARE, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION.
- ALL THERMOMETERS AND GAUGES SHALL BE POSITIONED SO THAT THEY CAN BE EASILY VIEWED BY SOMEONE STANDING IN FRONT OF THE GAUGE OR THERMOMETER.

PIPE THREAD AND JOINTS:

- ALL PIPE THREADS SHALL BE CLEAN OUT, RIGHT HAND, STANDARD THREADS AND PIPE SHALL MAKE UP TO LINE LEANS ARE NOT TO BE REMOVED BY CALKING. DEFECTIVE PARTS OR WORK SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE WORK.

CLEANING AND FINISHING:

- AFTER ALL FIXTURES ARE INSTALLED AND BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL DO OVER ALL FIXTURES, CLEANING UP AND POLISHING ALL METAL PARTS, CHECKING AND ADJUSTING ALL FITTINGS, FLANGES, VALVES, ETC. CHECK OVER THE ENTIRE SYSTEM TO GUARANTEE THAT ALL VALVES, CONTROLS AND OTHER OPERATING PARTS ARE IN GOOD WORKING CONDITION.
- CLEAN UP RUBBISH CAUSED BY THE PLUMBING WORK AND REMOVE ALL RUBBISH AND SURPLUS MATERIALS, ETC., FROM THE PREMISES.

TESTING:

- WATER PIPING SHALL BE TESTED TO 150 POUNDS HYDROSTATIC PRESSURE AND MADE TIGHT. THE PRESSURE SHALL BE HELD FOR A MINIMUM OF THIRTY MINUTES OR AS LONG AS REQUIRED TO PERMIT THE INSPECTION OF ALL JOINTS.
- SOL, WASTE AND VENT PIPING SHALL BE GIVEN A WATER TEST BEFORE FIXTURES ARE INSTALLED AND A SMOKE TEST AFTER THEY ARE INSTALLED. ALL TESTS SHALL MEET THE REQUIREMENTS OF THE STATE DIVISION OF PLUMBING.
- ALL TESTS SHALL MEET THE REQUIREMENTS OF THE STATE DIVISION OF PLUMBING.
- ENGAGE A FACTORY CERTIFIED REPRESENTATIVE FOR STARTUP OF ALL PLUMBING EQUIPMENT AND TO PROVIDE OWNER TRAINING.
- TEST WATER TEMPERATURE AT EACH FIXTURE TO CONFIRM THE APPROPRIATE HOT WATER TEMPERATURE IS DELIVERED TO FIXTURES.

PLUMBING FIXTURES - GENERAL REQUIREMENTS:

- FURNISH AND INSTALL FIXTURES IN ACCORDANCE WITH THE DRAWINGS AND SCHEDULES.
- ALL TRAPS SHALL BE APPROVED TYPE WITH CLEANOUTS LOCATED AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY THE STATE OR LOCAL PLUMBING CODE.

OPERATION AND MAINTENANCE MANUALS:

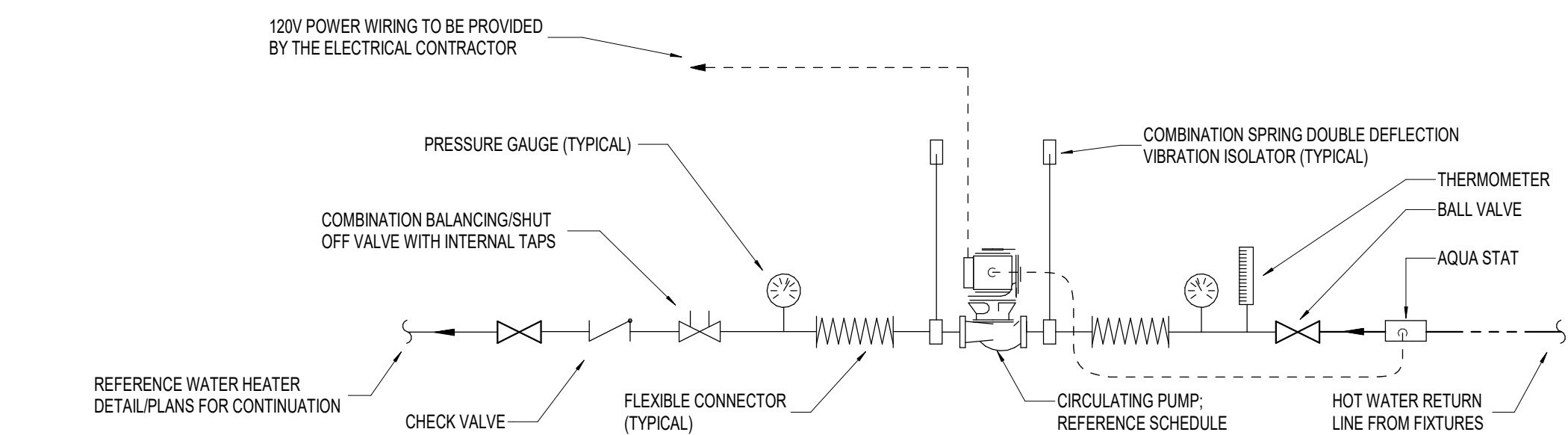
- THE CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT. FURNISH LITERATURE PROVIDED BY THE MANUFACTURER. PRINTED INSTRUCTION AND MAINTENANCE DATA SHALL BE BOUND WITH COVER IN DUPLICATE AND DELIVERED TO THE ARCHITECT. BOUND COVER SHALL LIST NAME OF PROJECT AND NAME, ADDRESS, PHONE NUMBER OF ARCHITECT, ENGINEER, AND CONTRACTOR.
- INSTRUCTION BOOKS TO INCLUDE COMPLETE SPARE PARTS LISTING AND MAINTENANCE INFORMATION ON EACH PLUMBING ITEM FURNISHED.

STERILIZATION:

- AFTER WATER PIPING HAS BEEN TESTED, ALL POTABLE WATER PIPING SHALL BE DISINFECTED BY A MIXTURE CONTAINING NOT LESS THAN 100 POUNDS OF HIGH-TEST CALCIUM HYPOCHLORITE OR 2 POUNDS OF CHLORINATED LIME TO EACH 1000 GALLONS OF WATER TO PROVIDE NOT LESS THAN 50PPM OF AVAILABLE CHLORINE. THE MIXTURE SHALL BE INJECTED INTO THE SYSTEM SHALL BE DRAINED, FLUSHED WITH POTABLE WATER AND PLACED IN THE SERVICE. TWO OR MORE SAMPLES OF WATER WILL BE TAKEN BY THE MEDICAL DEPARTMENT OR LOCAL HEALTH DEPARTMENT FOR CHLOROPFORM BACTERIA CONTAMINATION. IF THE SAMPLES ARE POSITIVE, THE STERILIZATION SHALL BE REPEAT UNTIL WATER QUALITY IS SATISFACTORY.

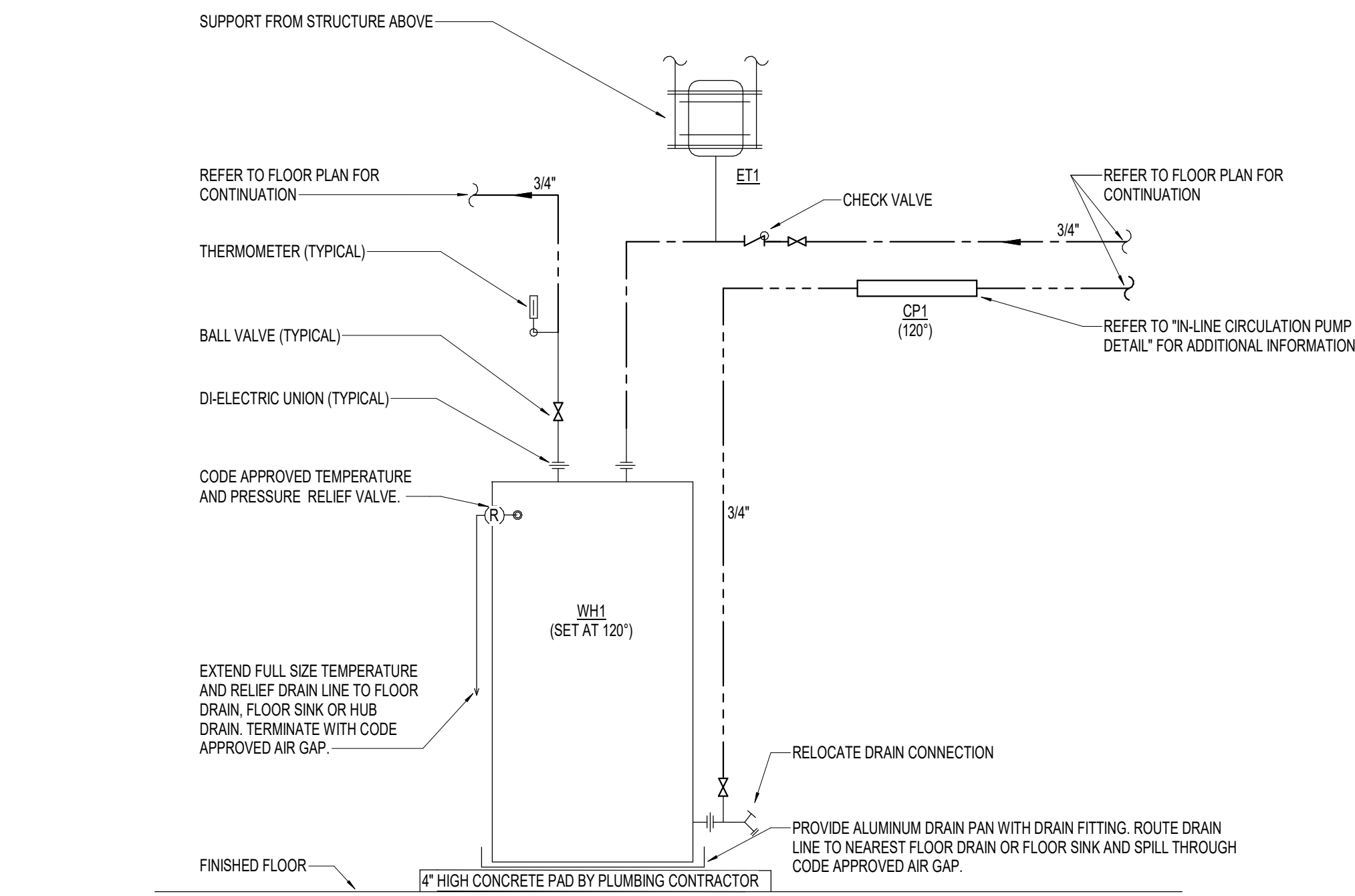
AS-BUILT DRAWINGS:

- CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS ON AN ONGOING MANNER DURING CONSTRUCTION. CONTRACTOR SHALL MAKE "AS-BUILT DRAWINGS" AVAILABLE TO ARCHITECT/ENGINEER DURING CONSTRUCTION MEETINGS AND/OR SITE VISITS.
- "AS-BUILT" DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT PRIOR TO FINAL PAYMENT.



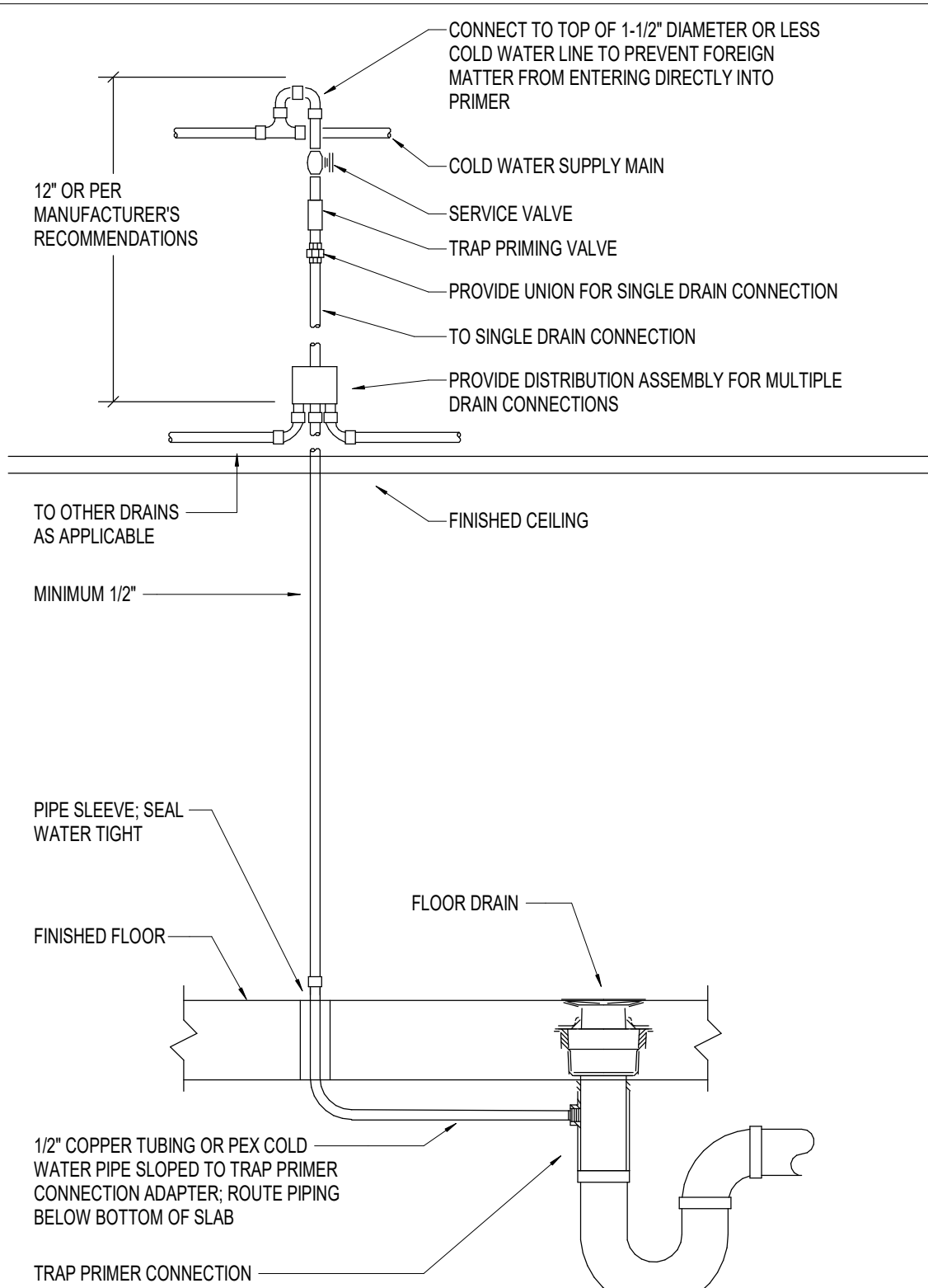
4 IN-LINE CIRCULATION PUMP DETAIL

P0.01 N.T.S.



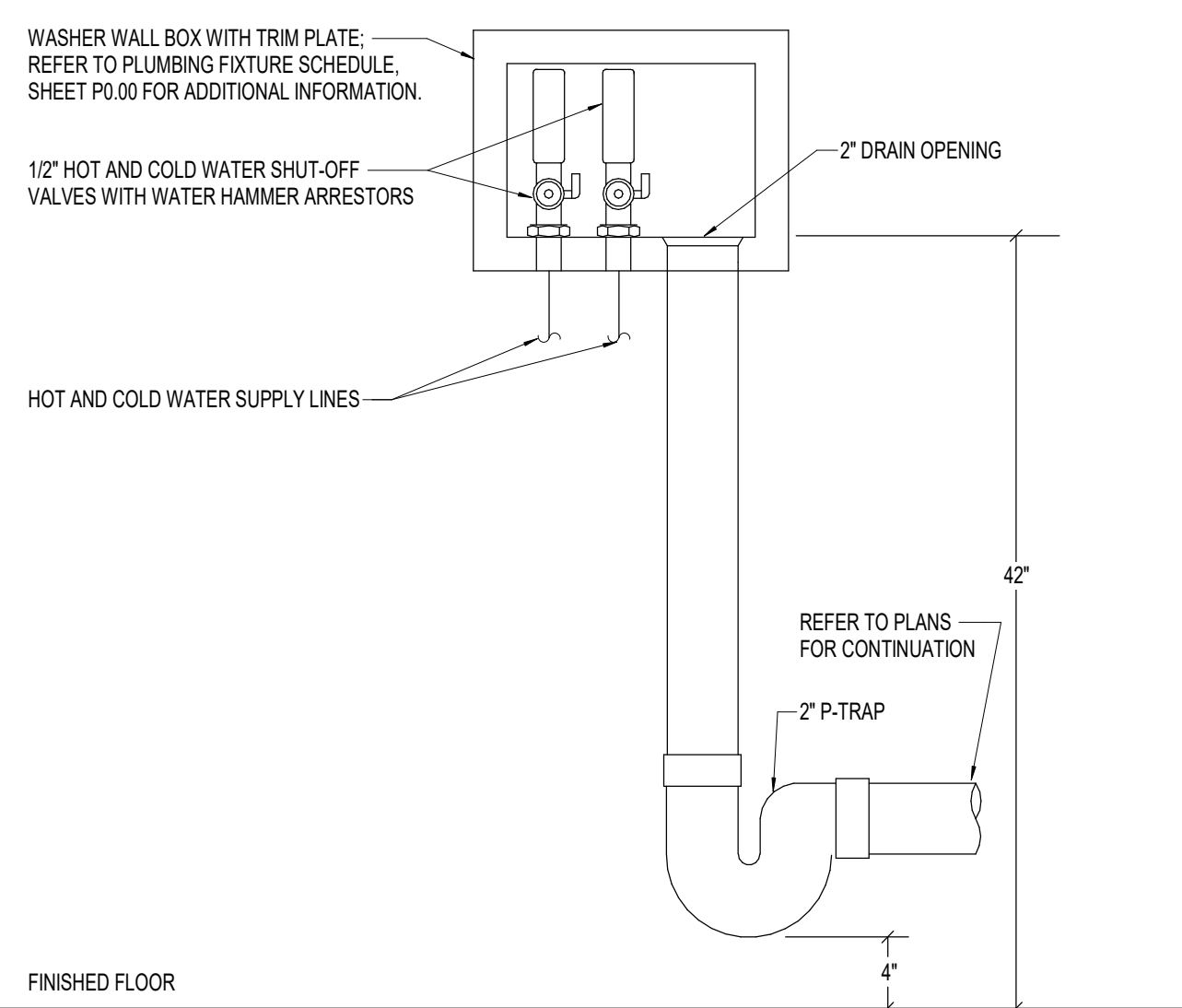
3 WATER HEATER - ELECTRIC WITH RECIRCULATION PUMP

P0.01 N.T.S.



2 DRAIN WITH TRAP PRIMER DETAIL

P0.01 N.T.S.

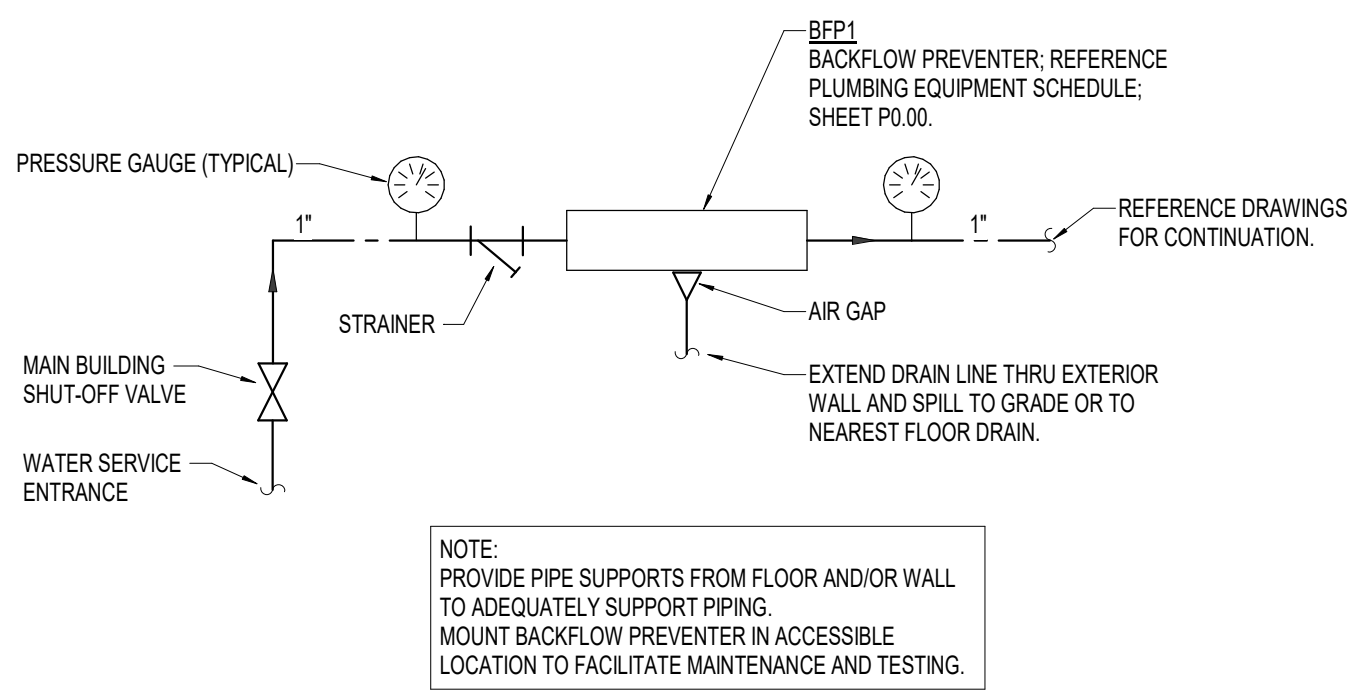


1 WASHER WALL BOX WITH WATER HAMMER ARRESTORS DETAIL

P0.01 N.T.S.

6 NFPA 13D DOMESTIC/FIRE SERVICE ENTRANCE DETAIL

P0.01 N.T.S.



5 WATER SERVICE ENTRANCE DETAIL - NFPA 13R

P0.01 N.T.S.

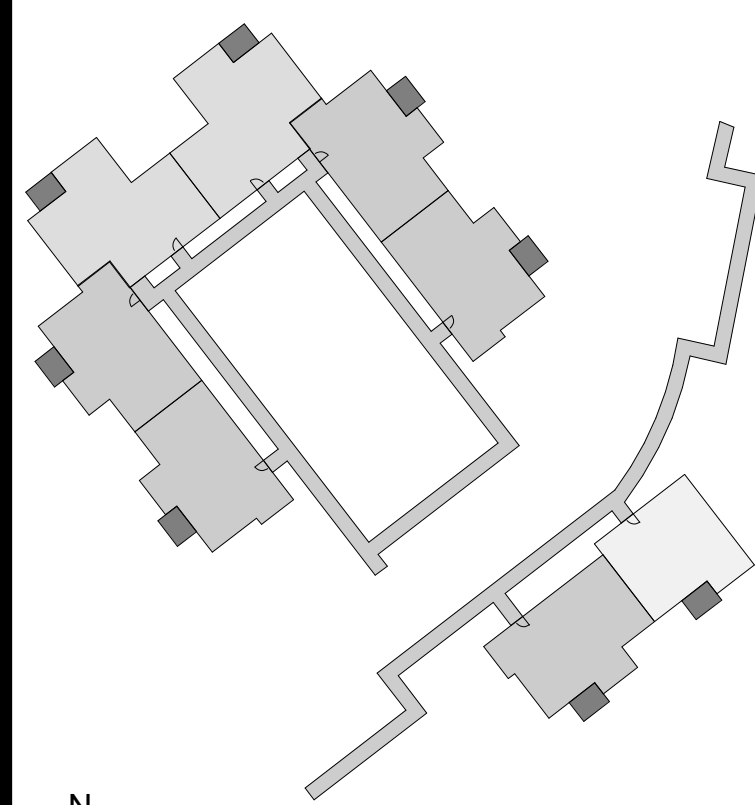
PROJECT TITLE
Collington
A KENDAL AFFILIATE
INDEPENDENT LIVING
CONSTRUCTION DOCUMENTS
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Interiors
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DESIGNER : JSB	DRAWN : TWH/MAH
ARCHITECT : KAT, NSS	CHECKED : DPW/MAH/TWH
ENGINEER : AJM	APPROVED : AJM
NO.	REVISION DESCRIPTION DATE

DRAWING TITLE
PLUMBING DETAILS AND SPECIFICATIONS

DATE: MAY 26, 2026
COMM. NO. 18135.00

P0.01



PLAN NOTES

1. 4" WASTE LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 1" COLD WATER LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
3. REFER TO UNIT FLOOR PLAN - COTTAGE B - WASTE AND VENT - SEWER, EXIT #17, SHEET P2.11 FOR CONTINUATION AND ADDITIONAL INFORMATION.
4. REFER TO UNIT FLOOR PLAN - COTTAGE C - WASTE AND VENT - SEWER, EXIT #17, SHEET P2.12 FOR CONTINUATION AND ADDITIONAL INFORMATION.
5. REFER TO UNIT FLOOR PLAN - COTTAGE B - WATER; SHEET P2.14 FOR CONTINUATION AND ADDITIONAL INFORMATION.
6. REFER TO UNIT FLOOR PLAN - COTTAGE C - WATER; SHEET P2.14 FOR CONTINUATION AND ADDITIONAL INFORMATION.
7. REFER TO UNIT FLOOR PLAN - COTTAGE A - WASTE AND VENT; SHEET P2.10 FOR CONTINUATION AND ADDITIONAL INFORMATION.
8. REFER TO UNIT FLOOR PLAN - COTTAGE A - WATER; SHEET P2.14 FOR CONTINUATION AND ADDITIONAL INFORMATION.
9. REFER TO UNIT FLOOR PLAN - COTTAGE B - WASTE AND VENT - SEWER, EXIT #27, SHEET P2.11 FOR CONTINUATION AND ADDITIONAL INFORMATION.
10. 1-1/2" COLD WATER LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.

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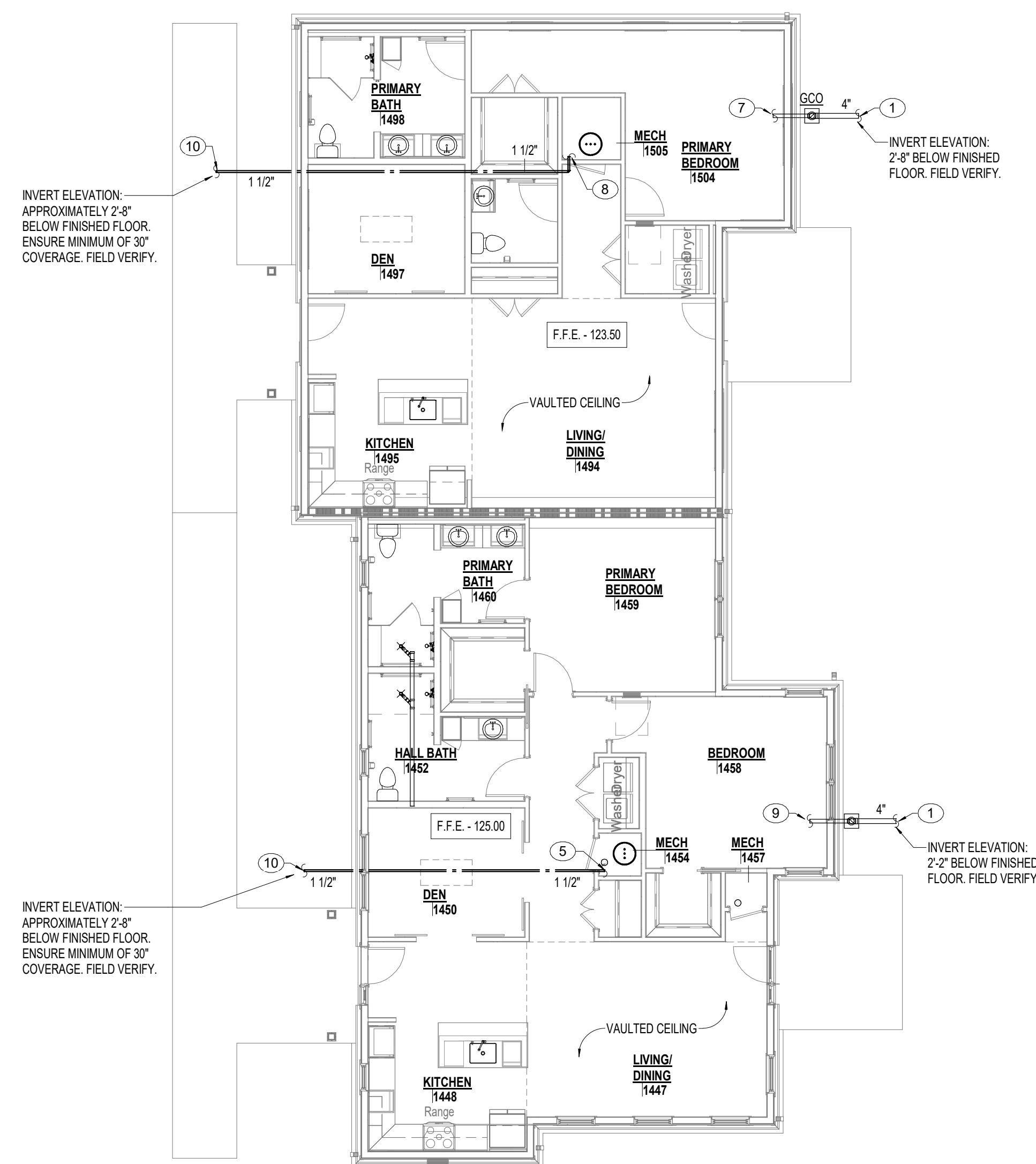
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ARCHITECT : KAT/NSS	CHECKED : DPW/MAH/TWH
ENGINEER : AJM	APPROVED : AJM

NO.	REVISION DESCRIPTION	DATE

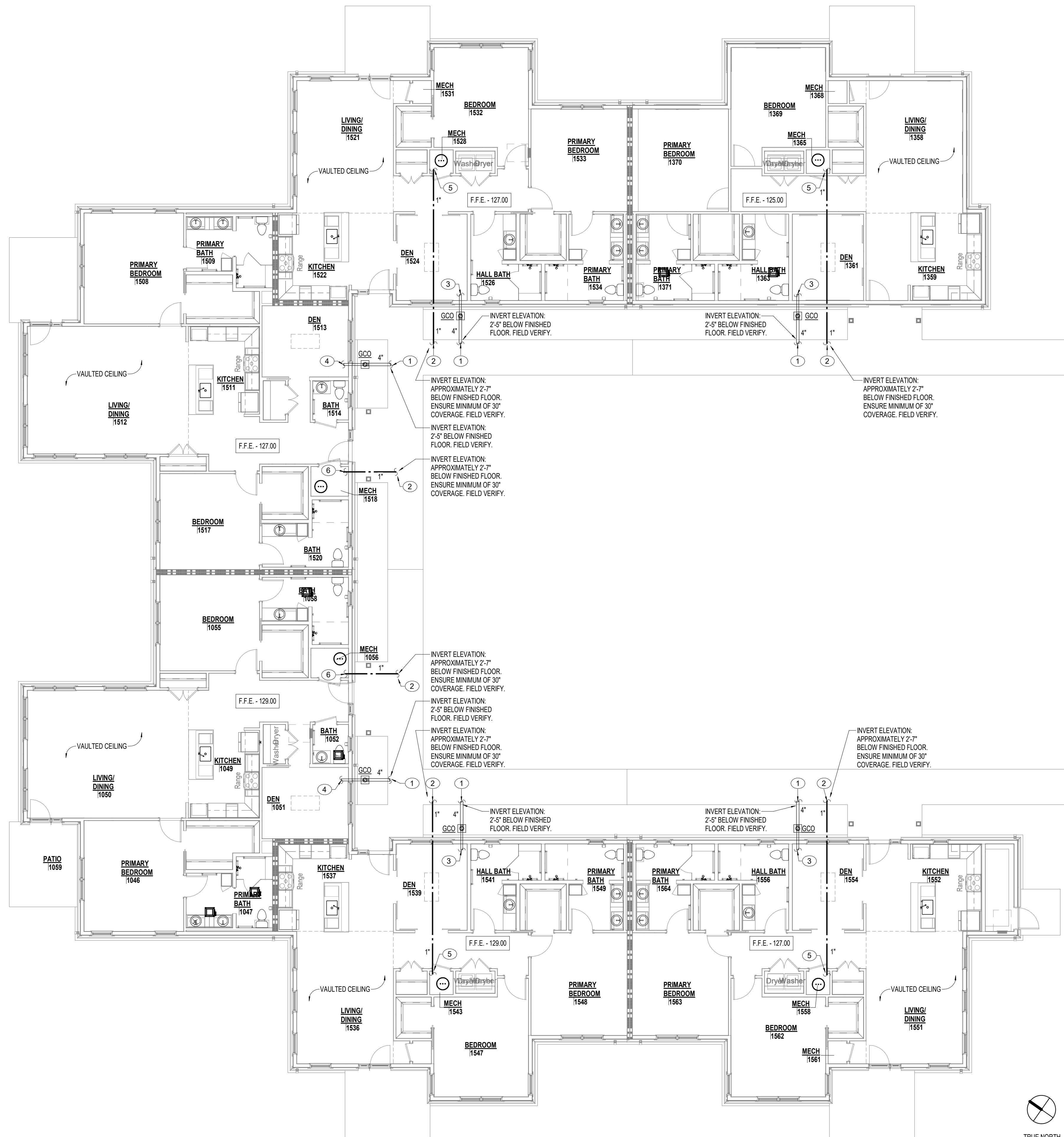
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**FLOOR PLAN - CEDAR
CROSSING - PLUMBING**

DATE: MAY 26, 2026
COMM. NO. 18135.00

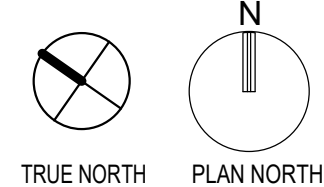
P1.30



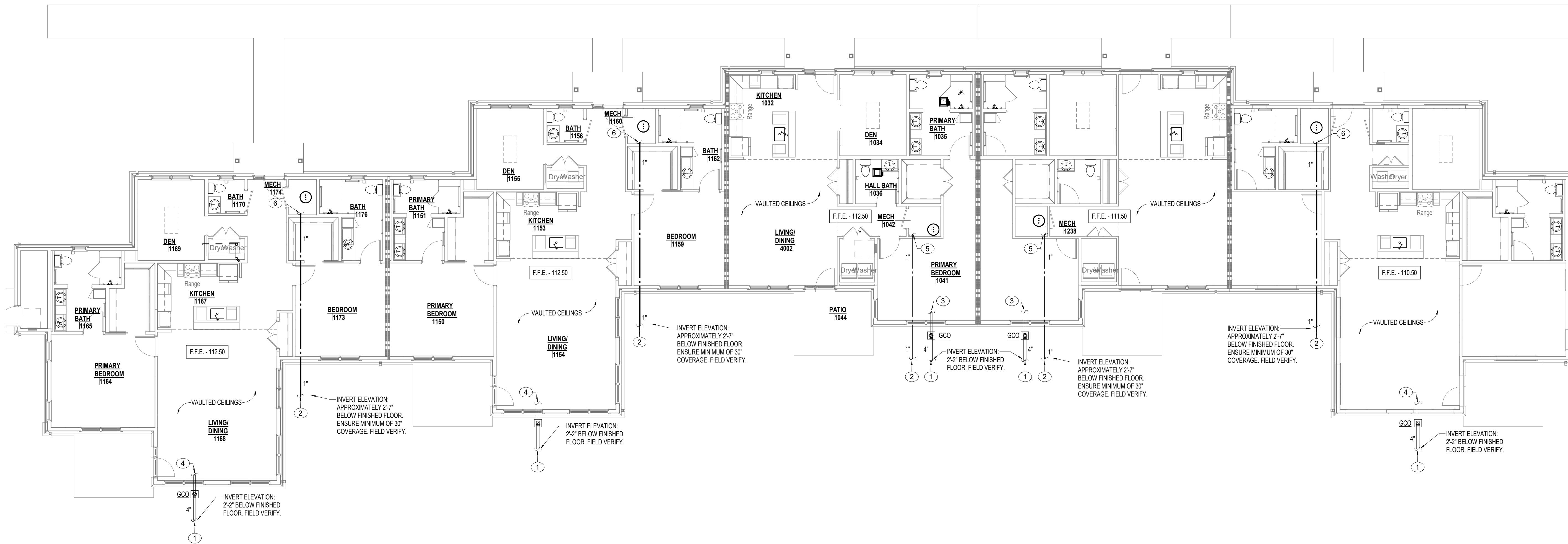
2 FLOOR PLAN - CEDAR CROSSING - PLUMBING
P1.30 1/8" = 1'-0"



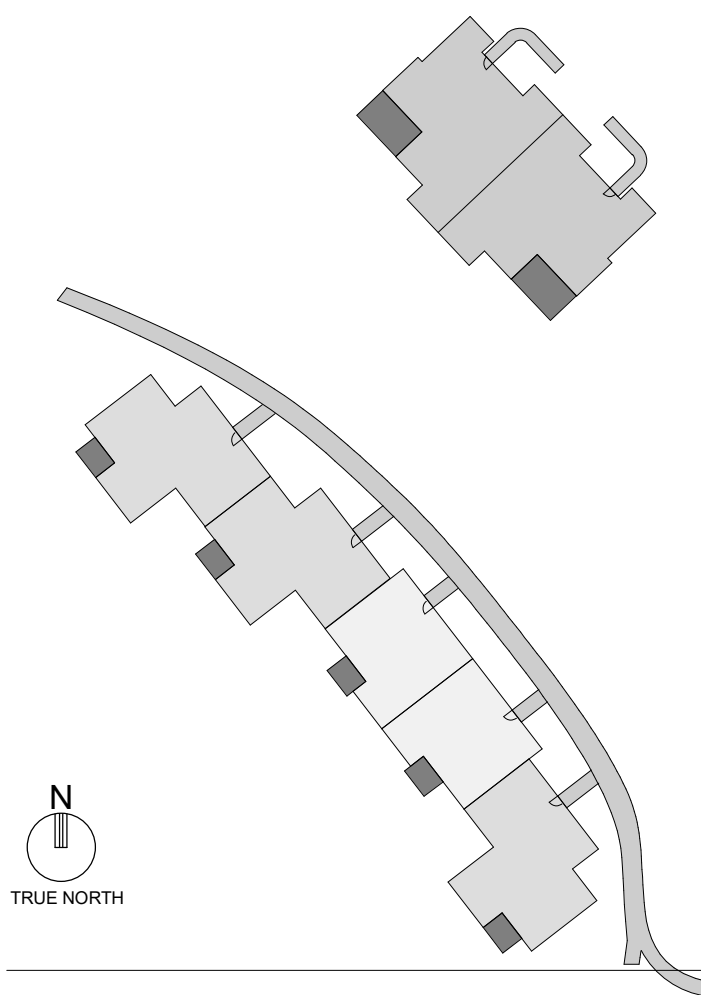
1 FLOOR PLAN - CEDAR CROSSING - PLUMBING
P1.30 1/8" = 1'-0"



APPROVAL STAMPS



1 FLOOR PLAN - HAWTHORN PLACE - PLUMBING
P1.40 1/8" = 1'-0"



PLAN NOTES

1. 4" WASTE LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 1" COLD WATER LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
3. REFER TO UNIT FLOOR PLAN - COTTAGE A - WASTE AND VENT; SHEET P2.10 FOR CONTINUATION AND ADDITIONAL INFORMATION.
4. REFER TO UNIT FLOOR PLAN - COTTAGE C - WASTE AND VENT - SEWER EXIT; SHEET P2.12 FOR CONTINUATION AND ADDITIONAL INFORMATION.
5. REFER TO UNIT FLOOR PLAN - COTTAGE A - WATER; SHEET P2.14 FOR CONTINUATION AND ADDITIONAL INFORMATION.
6. REFER TO UNIT FLOOR PLAN - COTTAGE C - WATER; SHEET P2.14 FOR CONTINUATION AND ADDITIONAL INFORMATION.

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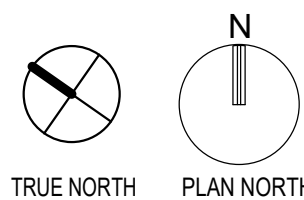
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ARCHITECT : KAT/NSS	CHECKED : DPW/MAH/TWH
ENGINEER : AJM	APPROVED : AJM

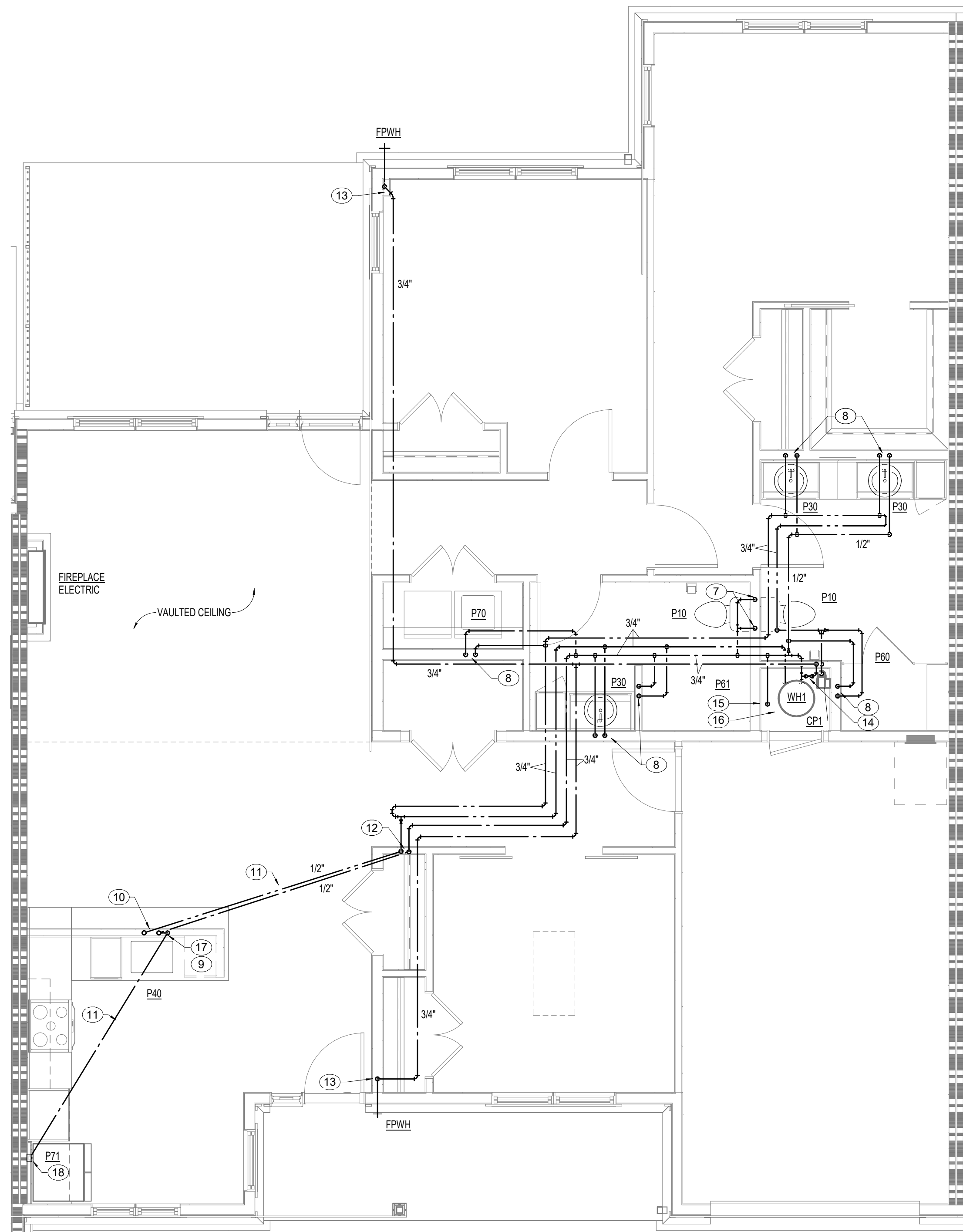
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DRAWING TITLE
FLOOR PLAN - HAWTHORN PLACE - PLUMBING

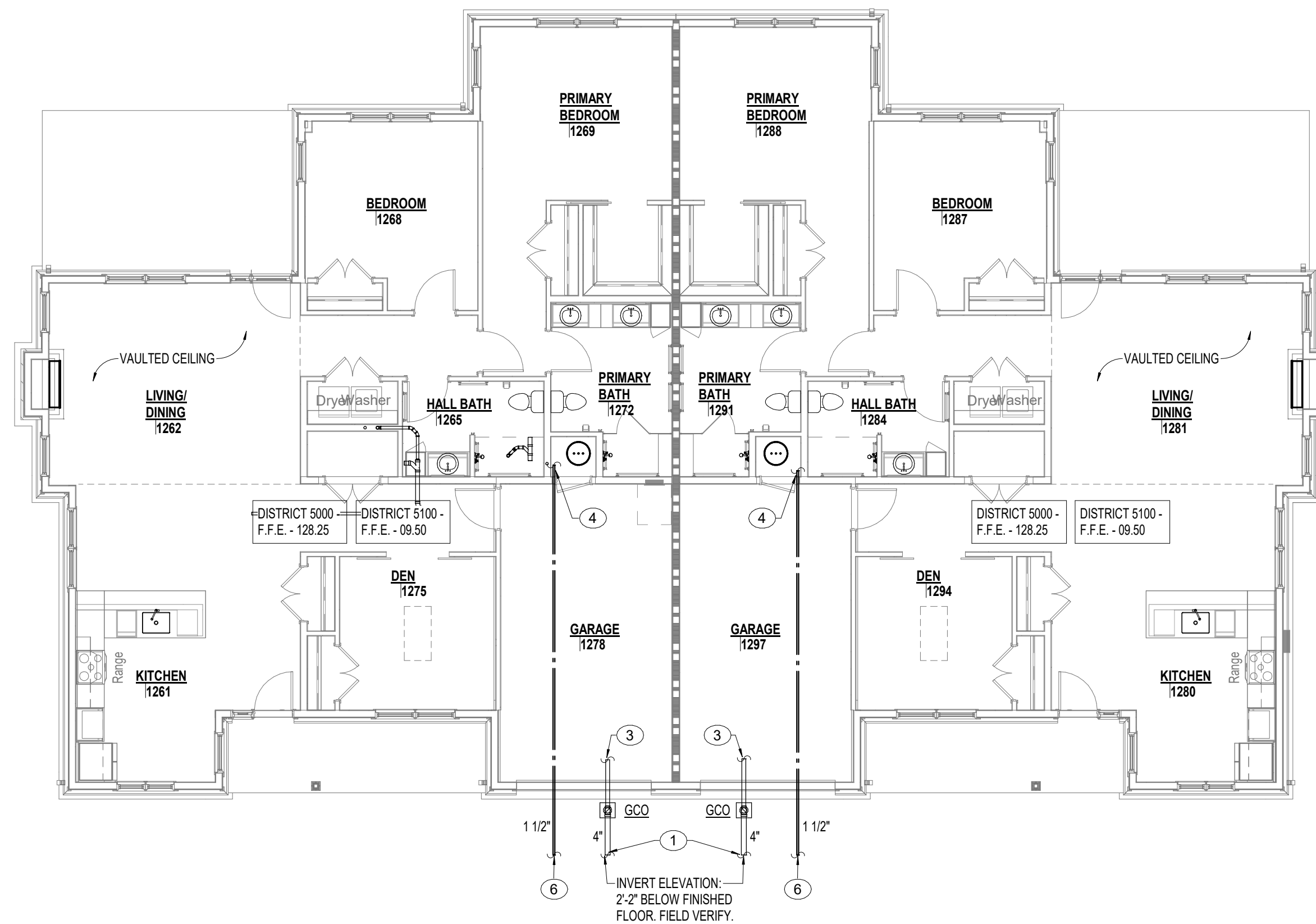
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COMM. NO. 18135.00	

P1.40

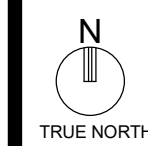
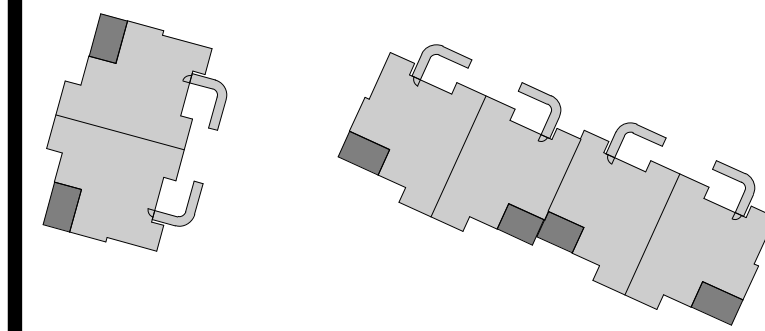




4 UNIT FLOOR PLAN - VILLA - WATER
P1.50 1/4" = 1'-0"



2 FLOOR PLAN - VILLA (DUPLEX) - PLUMBING
P1.50 1/8" = 1'-0"

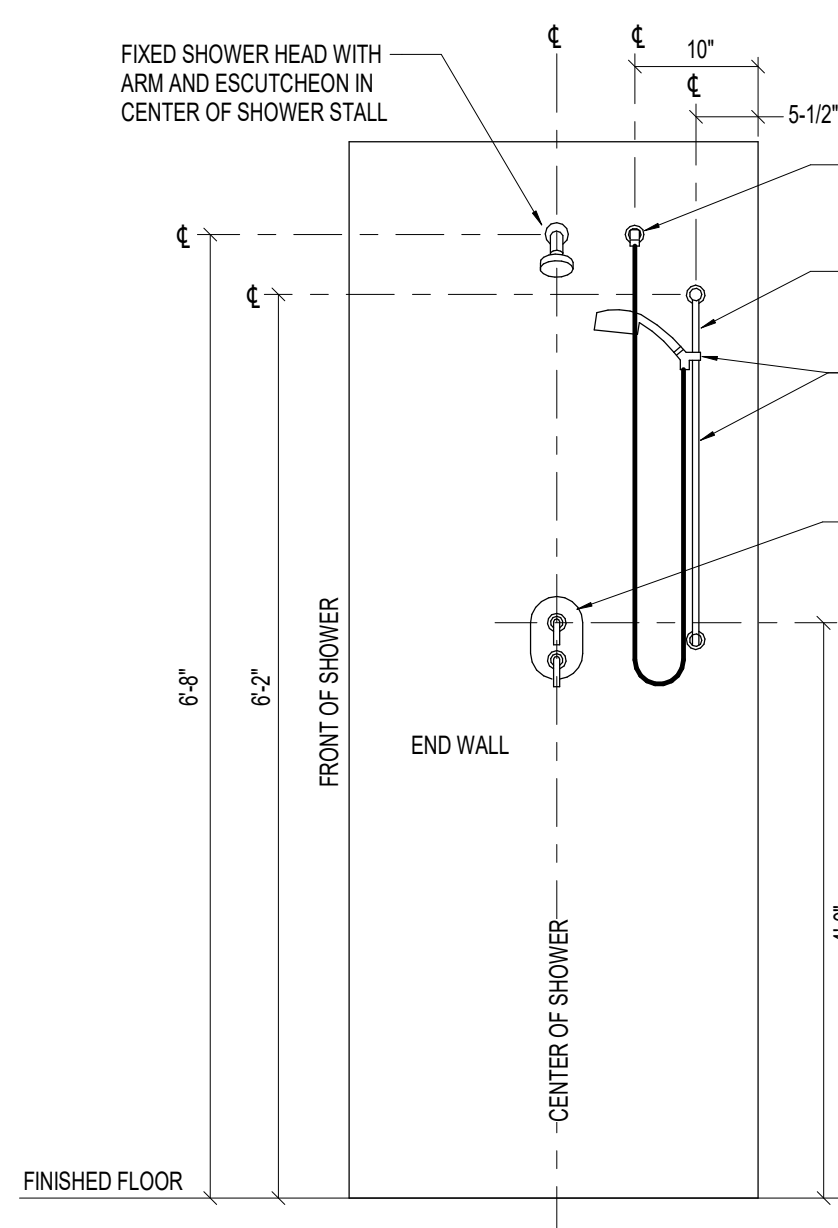


PLAN NOTES

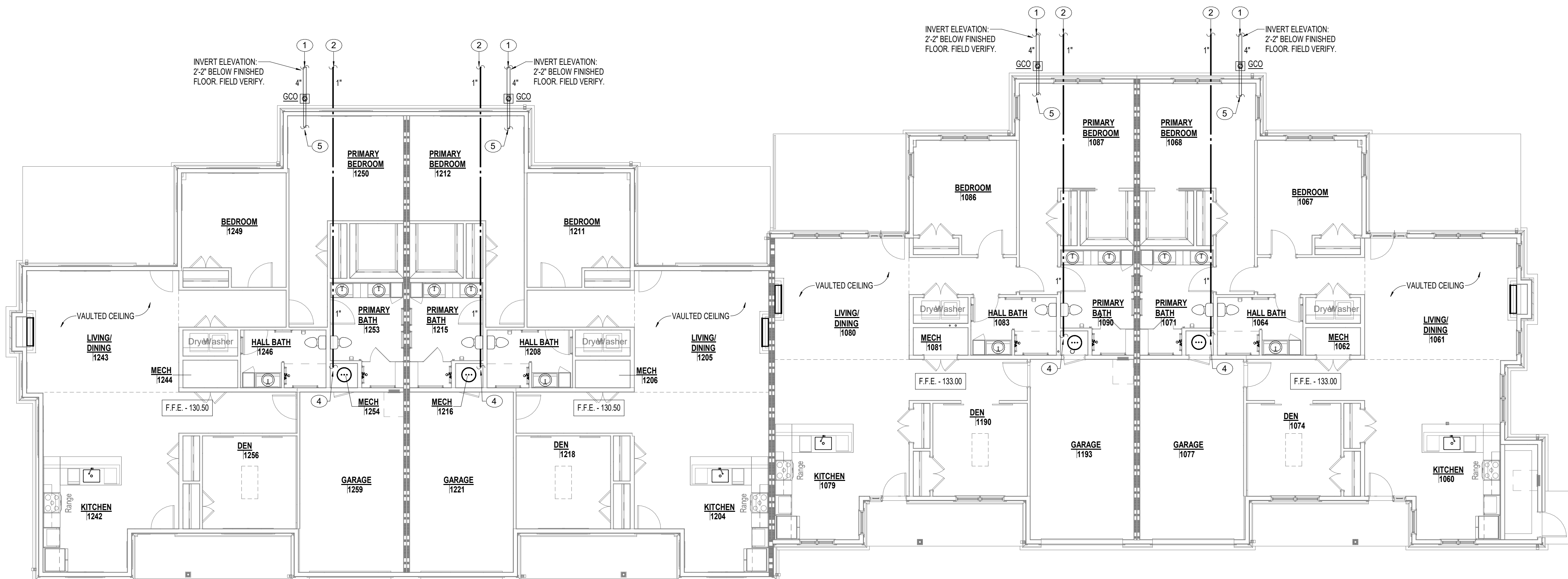
1. 4" WASTE LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 1" COLD WATER LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
3. REFER TO UNIT FLOOR PLAN - VILLA - WASTE AND VENT - SEWER EXIT #2. SHEET P2.13 FOR CONTINUATION AND ADDITIONAL INFORMATION.
4. REFER TO UNIT FLOOR PLAN - VILLA - WASTE AND VENT - THIS SHEET FOR CONTINUATION AND ADDITIONAL INFORMATION.
5. REFER TO UNIT FLOOR PLAN - VILLA - WASTE AND VENT - SEWER EXIT #1. SHEET P2.13 FOR CONTINUATION AND ADDITIONAL INFORMATION.
6. 1-1/2" COLD WATER LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
7. 1/2" CW LINE DOWN TO FIXTURE AND CONNECT.
8. 1/2" CW, 1/2" HW LINES DOWN TO FIXTURE(S) AND CONNECT.
9. PROVIDE 1/2" VALVED HW LINE TO DISHWASHER AND CONNECT.
10. 1/2" CW, HW LINES UP FROM BELOW SLAB TO FIXTURE AND CONNECT.
11. PROVIDE CLOSED CELL INSULATION ON 1/2" CW, HW LINES BELOW SLAB.
12. 1/2" CW, HW LINES DOWN TO BELOW SLAB.
13. 3/4" CW DOWN TO FFWH AND CONNECT.
14. PROVIDE SHUT-OFF VALVES FOR FFWH IN AN ACCESSIBLE LOCATION BY WATER HEATER.
15. 1" CW DOWN TO BACKFLOW PREVENTER.
16. REFER TO WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM ON SHEET P0.01 FOR CONTINUATION AND ADDITIONAL INFORMATION.
17. PROVIDE 1/2" CW CONNECTION IN WALL EXTEND 1/2" CW LINE DOWN TO BELOW SLAB, EXTEND TO FIXTURE AS INDICATED.
18. 1/2" CW LINE UP FROM BELOW SLAB TO FIXTURE AND CONNECT.



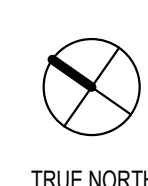
TRUE NORTH



3 RESIDENT SHOWER WET WALL DETAIL - VILLA
P1.50 N.T.S.



1 FLOOR PLAN - VILLA (QUAD) - PLUMBING
P1.50 1/8" = 1'-0"



TRUE NORTH

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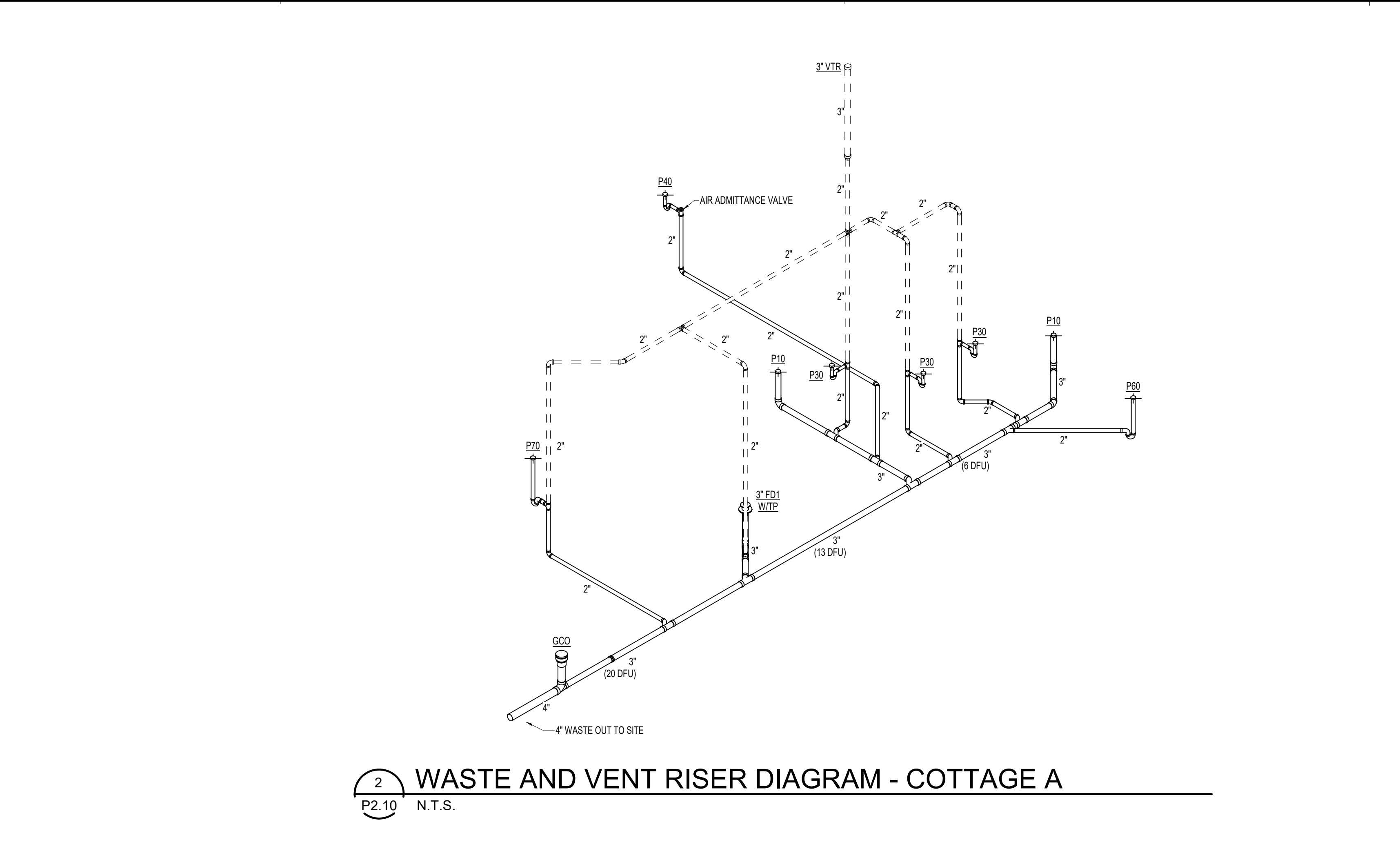
DESIGNER : JGB DRAWN : TMH/MAH
ARCHITECT : KAT/NSS CHECKED : DPW/MAH/TWH
ENGINEER : AJM APPROVED : AJM
NO. REVISION DESCRIPTION DATE

DRAWING TITLE
**FLOOR PLAN - VILLAS -
PLUMBING**

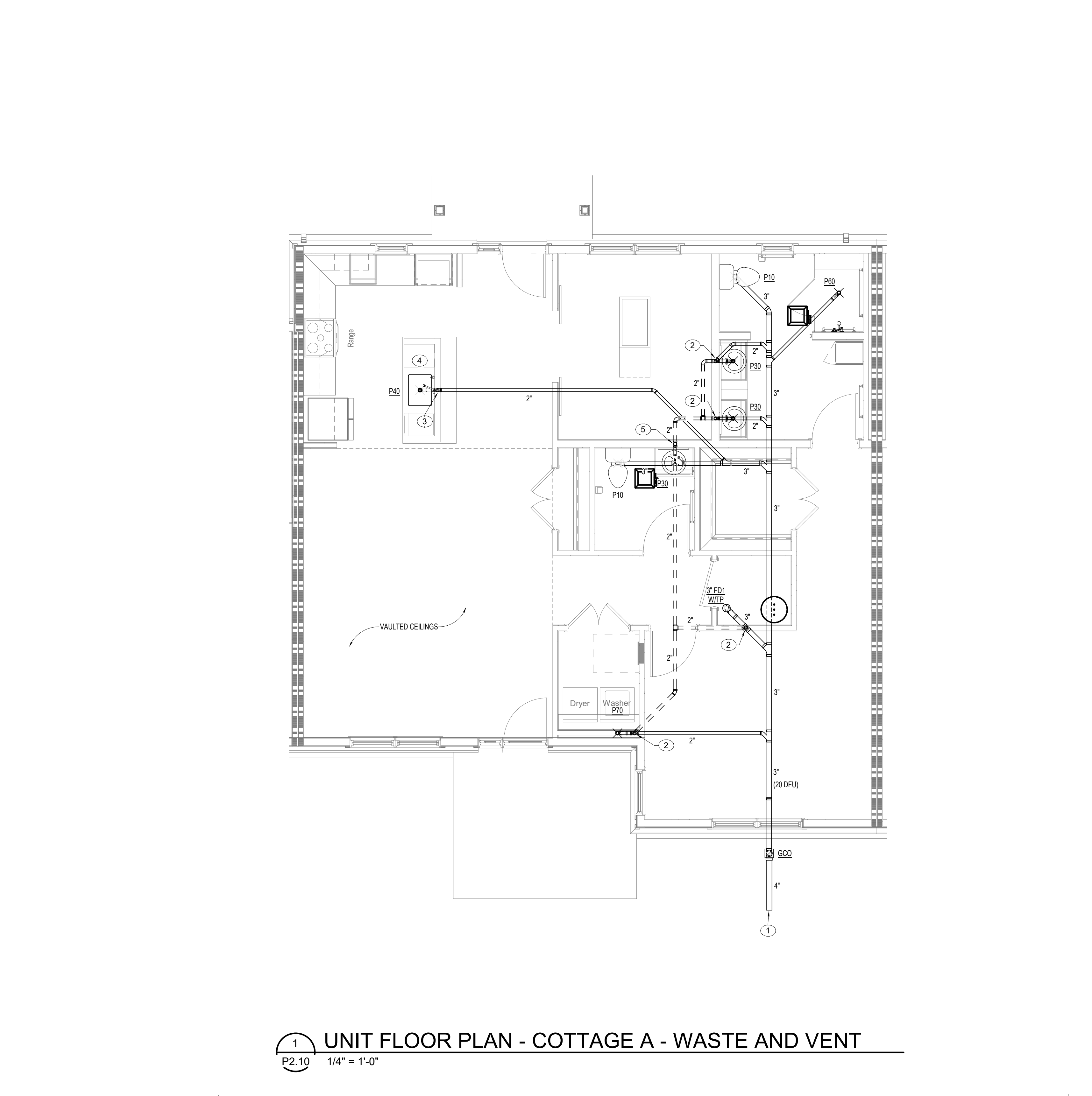
DATE : MAY 26, 2026
COMM. NO. : 18135.00

P1.50

APPROVAL STAMPS



WASTE AND VENT RISER DIAGRAM - COTTAGE A



 UNIT FLOOR PLAN - COTTAGE A - WASTE AND VENT

PLAN NOTES ○

1. 4" WASTE LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 2" VENT LINE DOWN.
3. PROVIDE AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND ALL STATE AND LOCAL CODE REQUIREMENTS.
4. EXTEND DRAIN LINE FROM DISHWASHER AND CONNECT TO WYE TAILPIECE AT KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
5. 2" VENT LINE DOWN; CONTINUE 2" VENT LINE UP. TRANSITION TO 3" VENT A MINIMUM 1'-0" BELOW ROOF. CONTINUE 3" VENT UP TO 3' VENT THROUGH ROOF.

PROJECT TITLE

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ARCHITECT : KAT,NSS	CHECKED : DPW/MAH/TWH
ENGINEER : AJM	APPROVED : AJM
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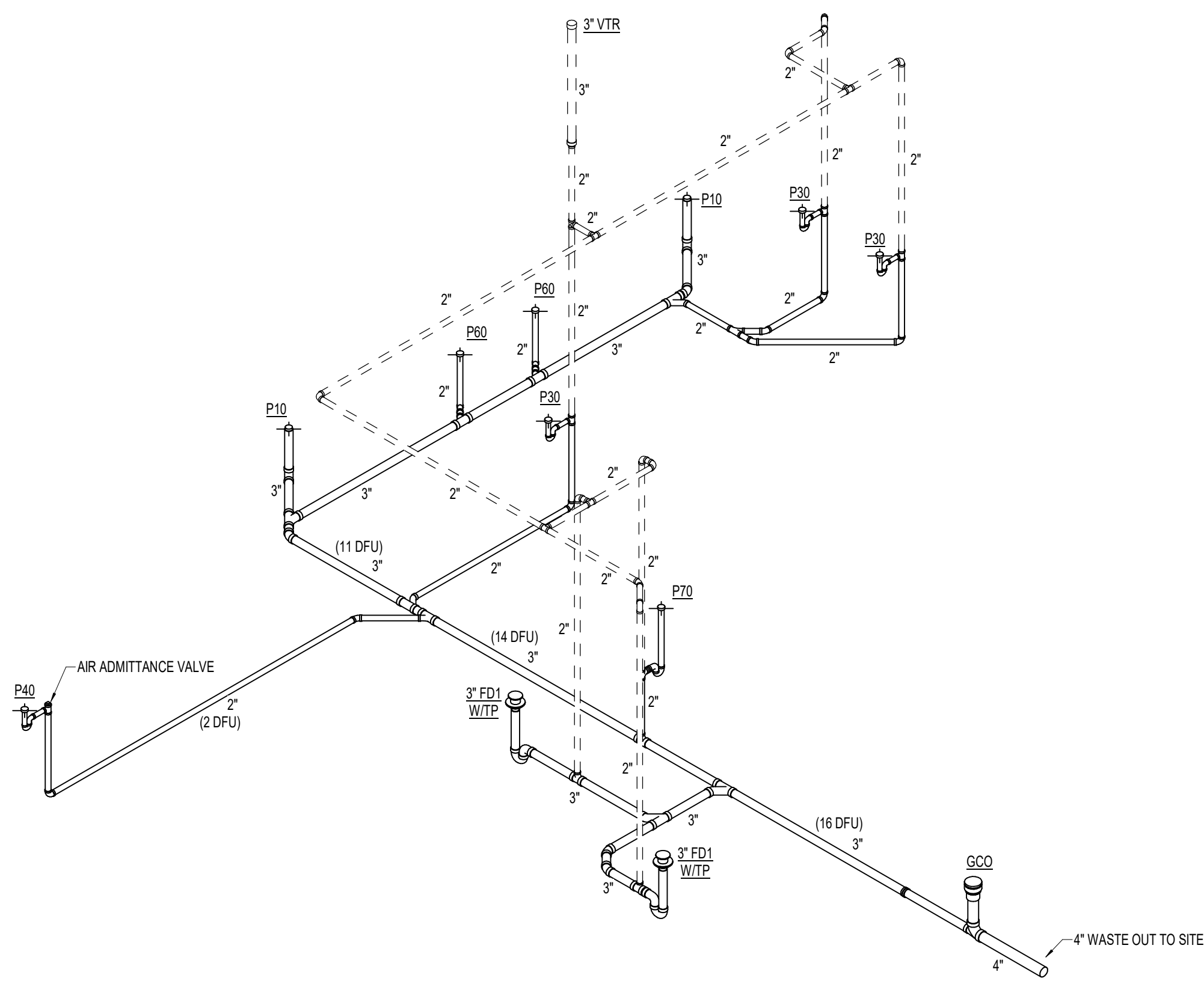
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ENLARGED UNIT PLANS -
COTTAGE A - WASTE AND
VENT

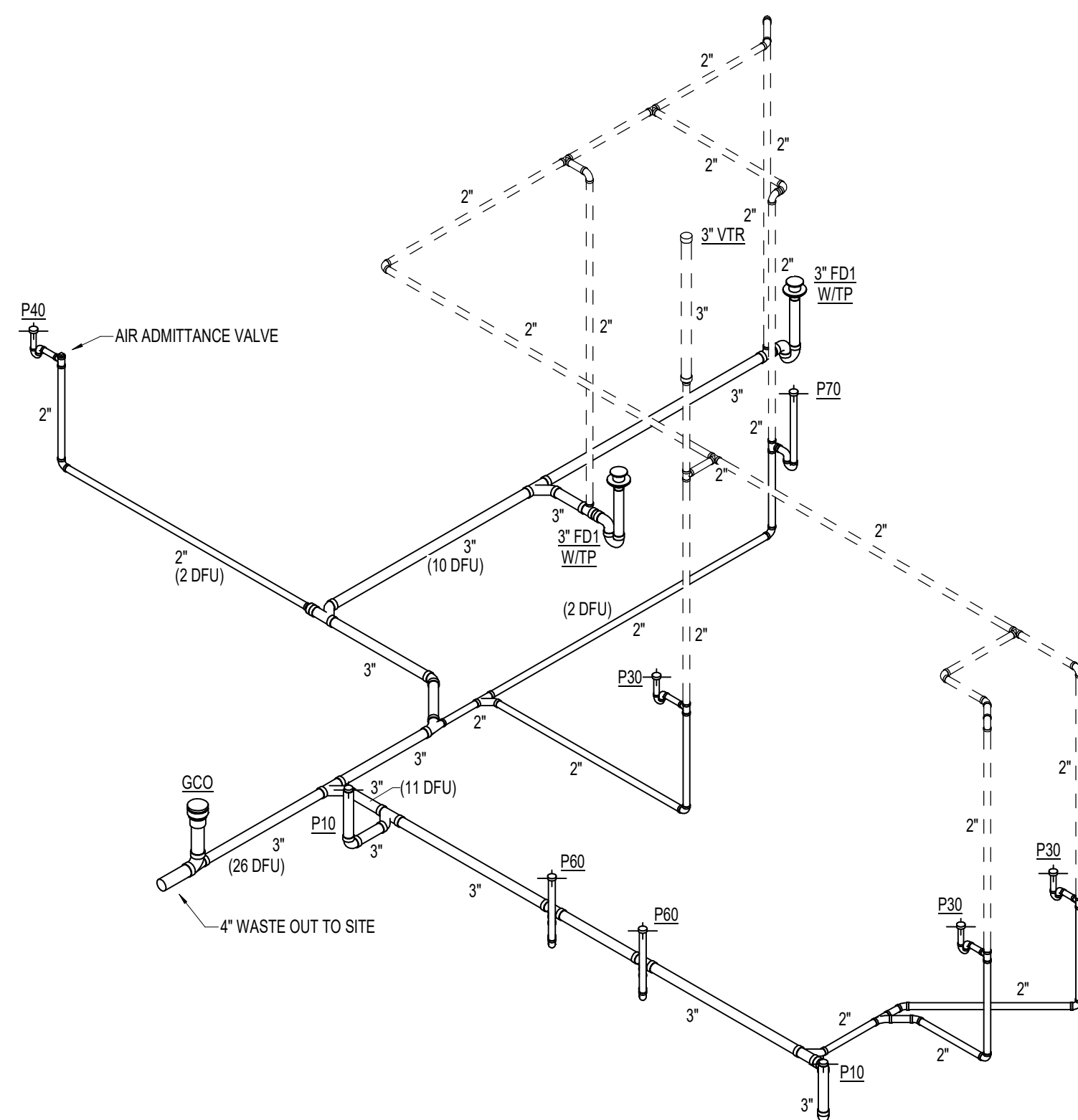
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MAY 26, 2026	
COMM. NO.	
18135.00	

P2.10

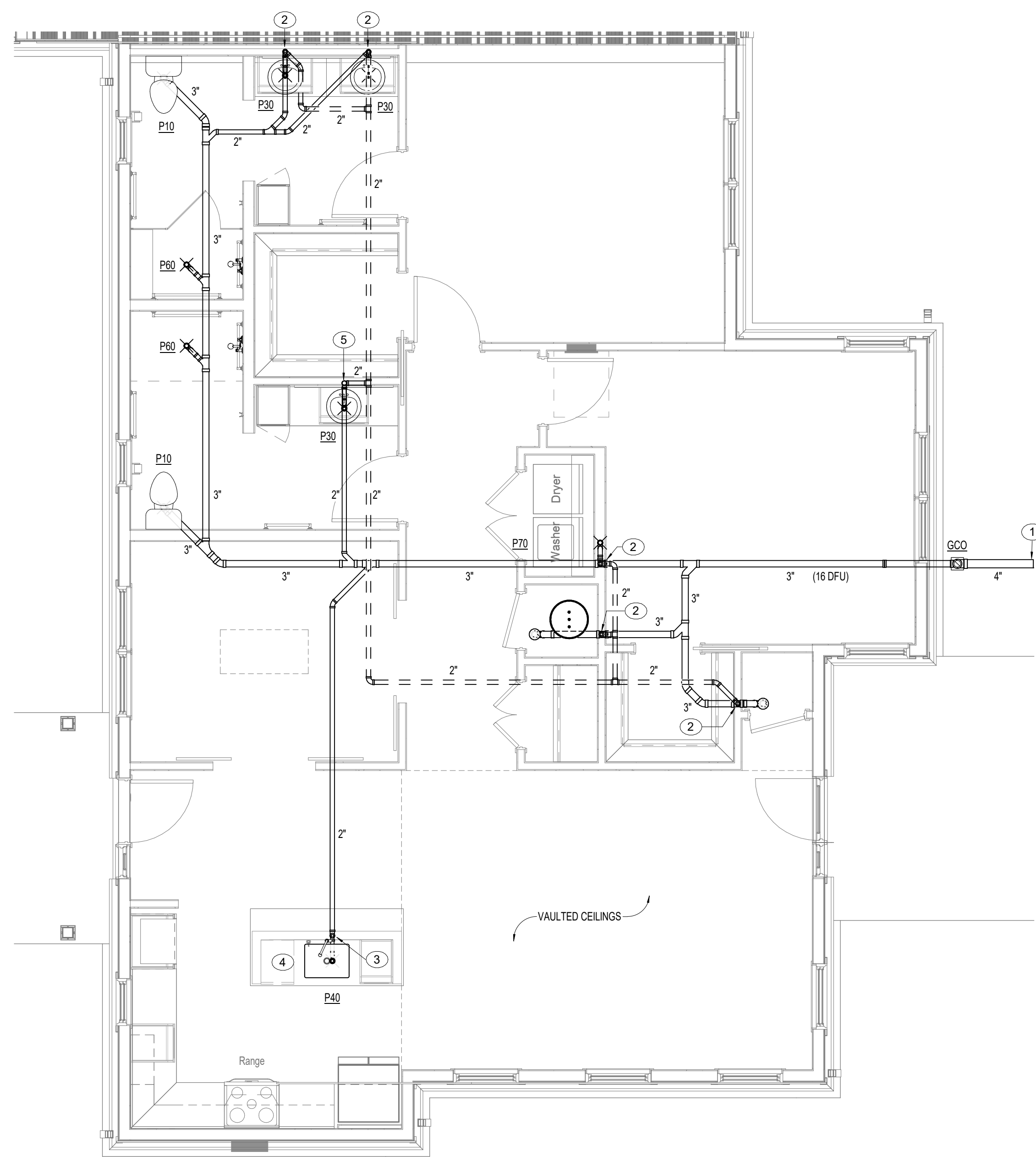
APPROVAL STAMPS



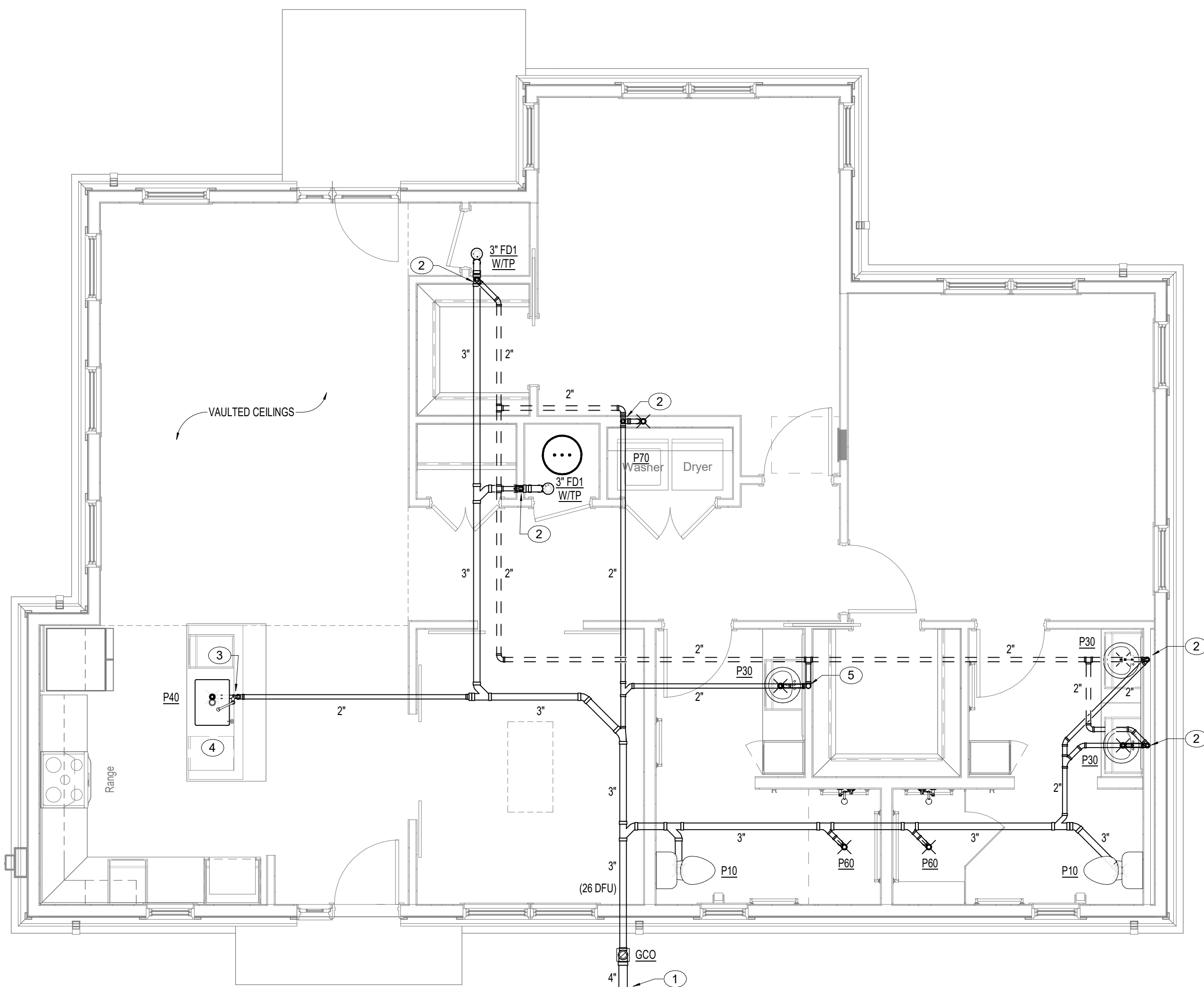
4 WASTE AND VENT RISER DIAGRAM - COTTAGE B - SEWER EXIT #2
P2.11 N.T.S.



3 WASTE AND VENT RISER DIAGRAM - COTTAGE B - SEWER EXIT #1
P2.11 N.T.S.



2 UNIT FLOOR PLAN - COTTAGE B - WASTE AND VENT - SEWER EXIT #2
P2.11 1/4" = 1'-0"



1 UNIT FLOOR PLAN - COTTAGE B - WASTE AND VENT - SEWER EXIT #1
P2.11 1/4" = 1'-0"

PLAN NOTES

1. 4" WASTE LINE OUT TO SITE 6'-0" REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 2" VENT LINE DOWN.
3. PROVIDE AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND ALL STATE AND LOCAL CODE REQUIREMENTS. 2" WASTE LINE DOWN TO BELOW SLAB.
4. EXTEND DRAIN LINE FROM DISHWASHER AND CONNECT TO WYE TAILPIECE AT KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
5. 2" VENT LINE DOWN. CONTINUE 2" VENT LINE UP. TRANSITION TO 3" VENT A MINIMUM 1'-0" BELOW ROOF. CONTINUE 3" VENT UP TO 2" VENT THROUGH ROOF.

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ARCHITECT : KAT/NSS	CHECKED : DPW/MAH/TWH
ENGINEER : AJM	APPROVED : AJM

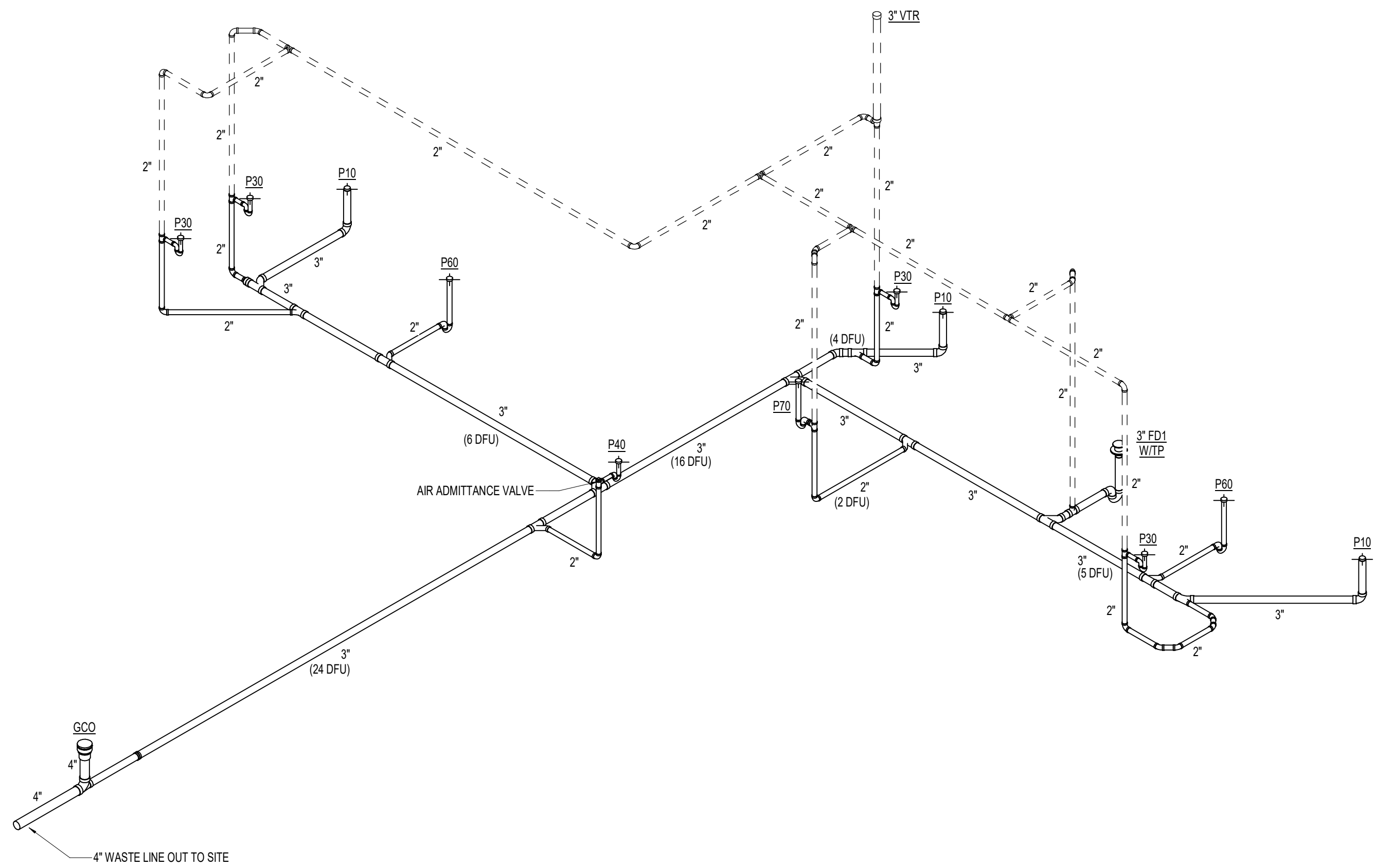
NO.	REVISION DESCRIPTION	DATE
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DRAWING TITLE
**ENLARGED UNIT PLANS -
COTTAGE B - WASTE AND
VENT**

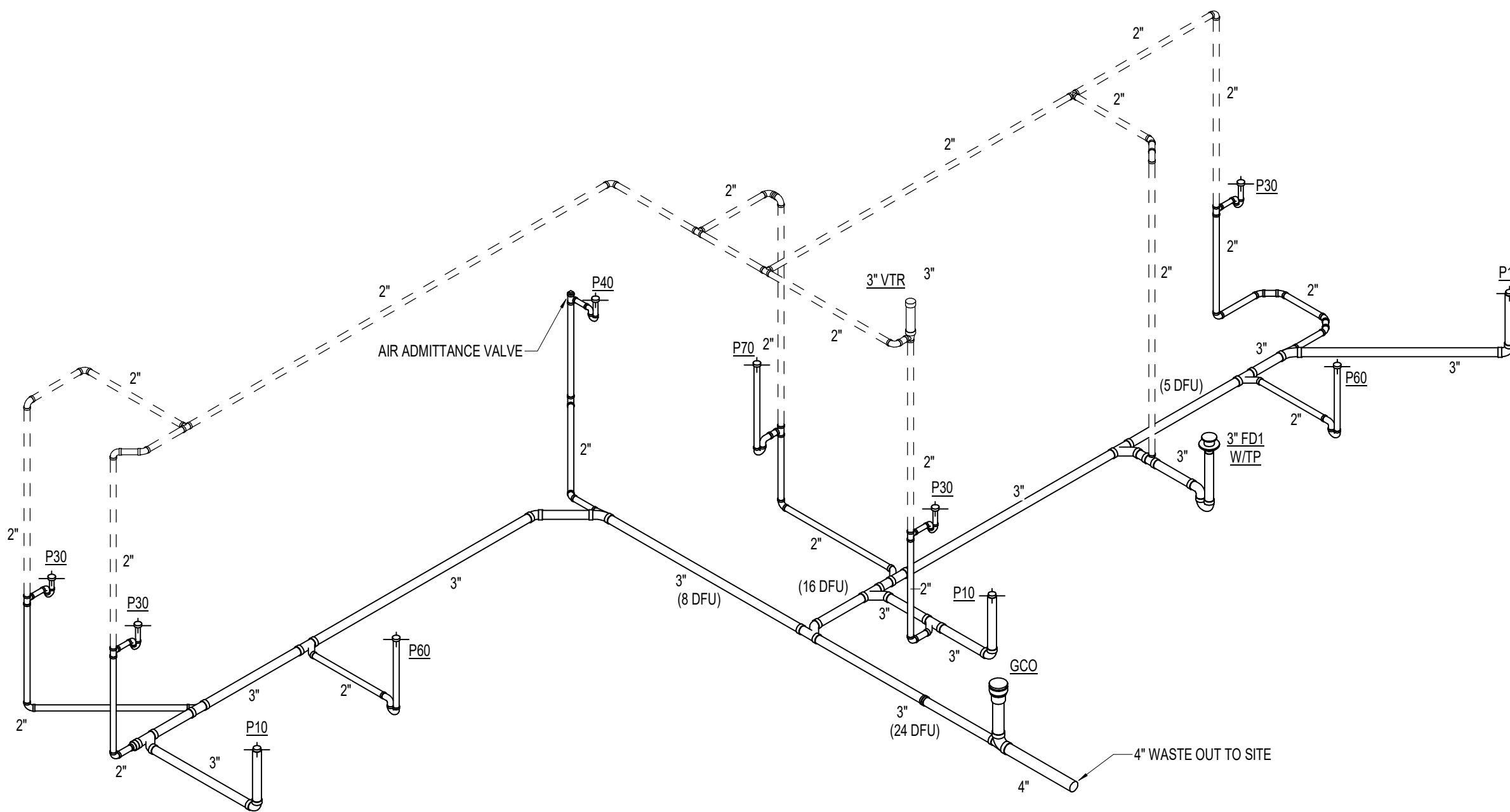
DATE : MAY 26, 2026	DRAWING
COMM. NO. 18135.00	

P2.11

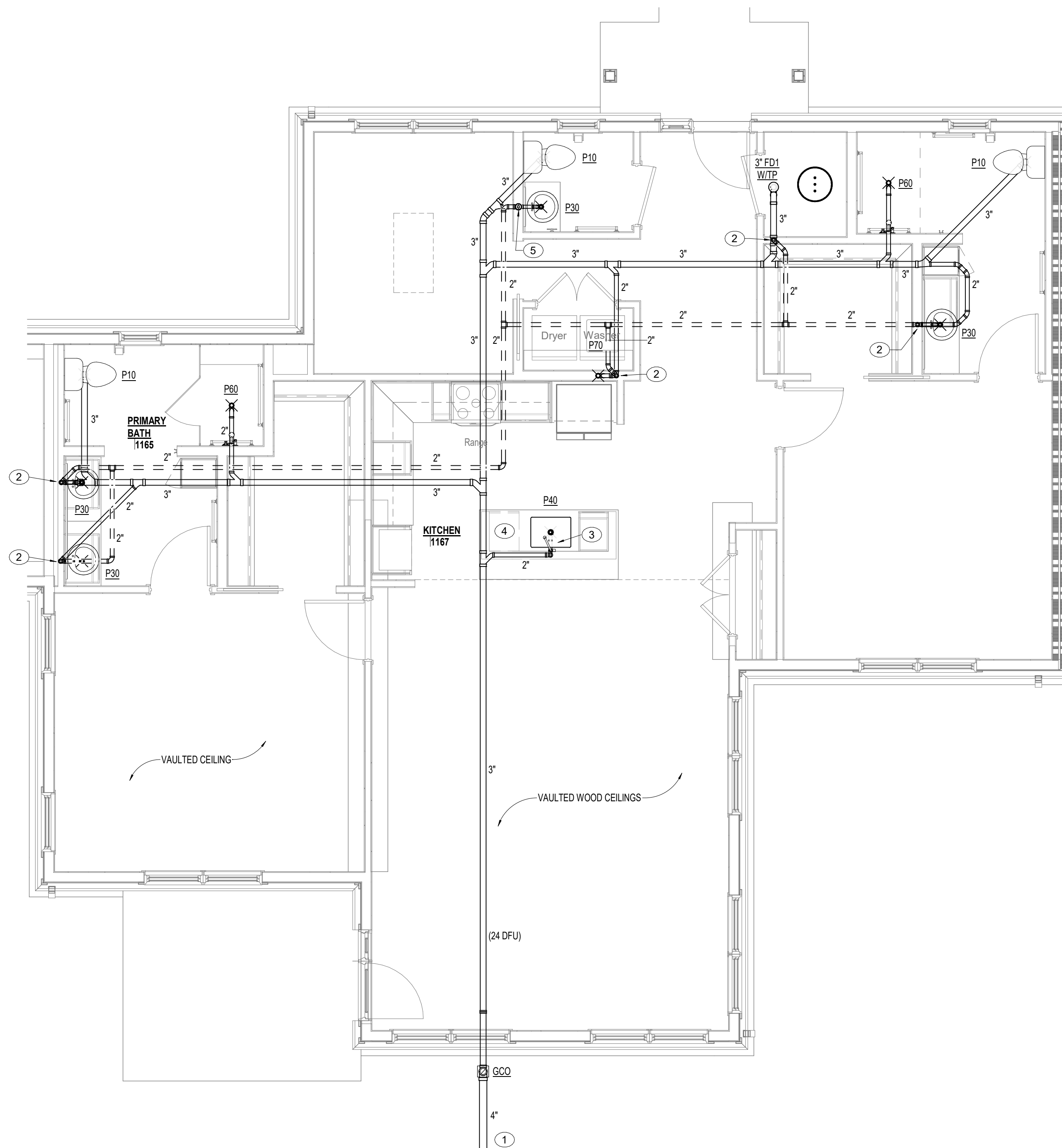
APPROVAL STAMPS



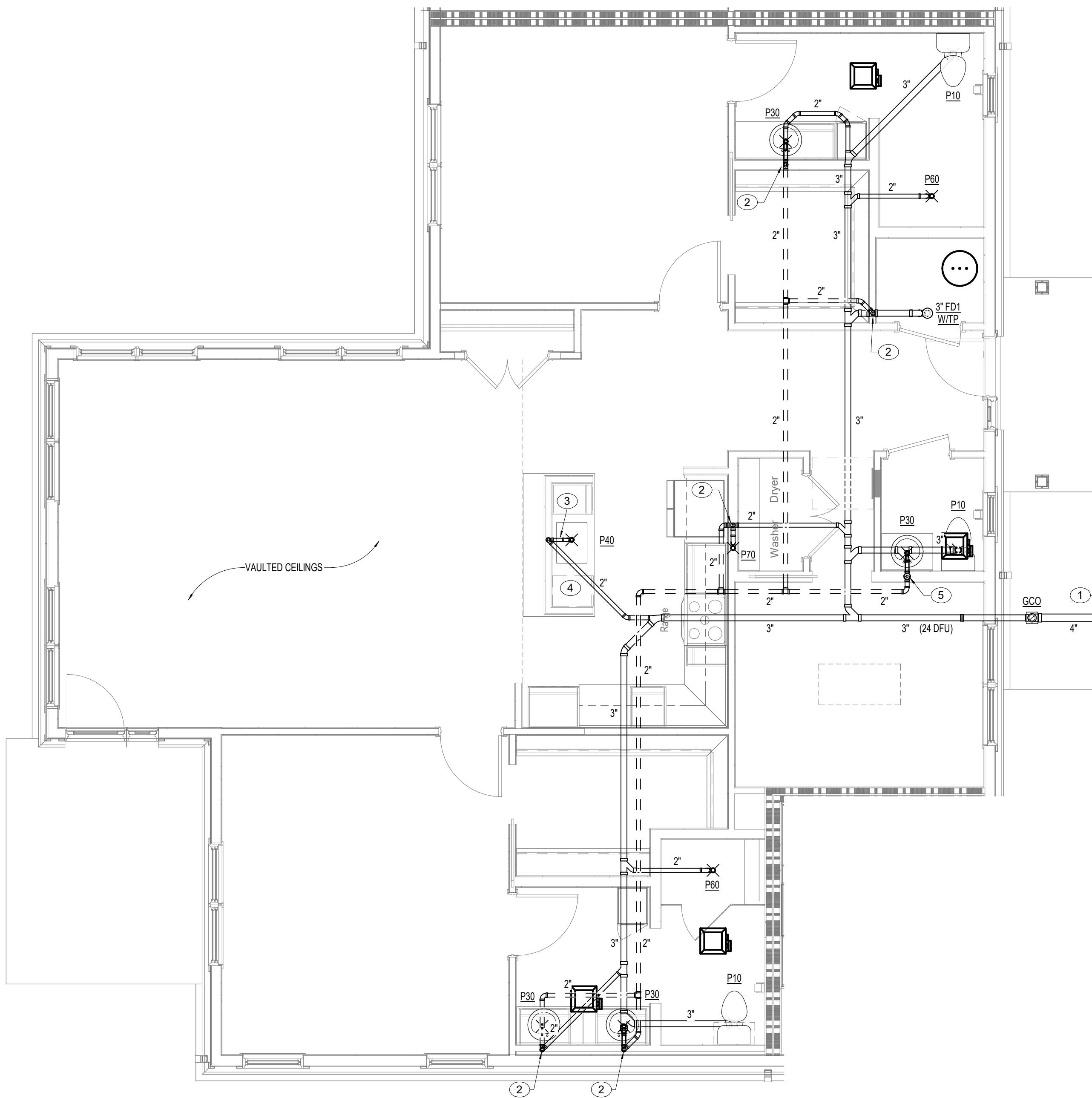
4 WASTE AND VENT RISER DIAGRAM - COTTAGE C - SEWER EXIT #2
P2.12 N.T.S.



3 WASTE AND VENT RISER DIAGRAM - COTTAGE C - SEWER EXIT #1
P2.12 N.T.S.



2 UNIT FLOOR PLAN - COTTAGE C - WASTE AND VENT - SEWER EXIT #2
P2.12 1/4" = 1'-0"



1 UNIT FLOOR PLAN - COTTAGE C - WASTE AND VENT - SEWER EXIT #1
P2.12 1/4" = 1'-0"

PLAN NOTES

1. 4" WASTE LINE OUT TO SITE 6'-0" REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 2" VENT LINE DOWN.
3. PROVIDE AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND ALL STATE AND LOCAL CODE REQUIREMENTS. 2" WASTE LINE DOWN TO BELOW SLAB.
4. EXTEND DRAIN LINE FROM DISHWASHER AND CONNECT TO WYE TAILPIECE AT KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
5. 2" VENT LINE DOWN. CONTINUE 2" VENT LINE UP. TRANSITION TO 3" VENT. A MINIMUM 1'-0" BELOW ROOF. CONTINUE 3" VENT UP TO 2" VENT THROUGH ROOF.

PROJECT TITLE
Collington
A KENDAL AFFILIATE
INDEPENDENT LIVING
CONSTRUCTION DOCUMENTS

SFCS Architecture
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Planning
Interiors
SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011.2003
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DESIGNER : JGB	DRAWN : TWH/MAH
ARCHITECT : KAT/NSS	CHECKED : DPW/MAH/TWH
ENGINEER : AJM	APPROVED : AJM

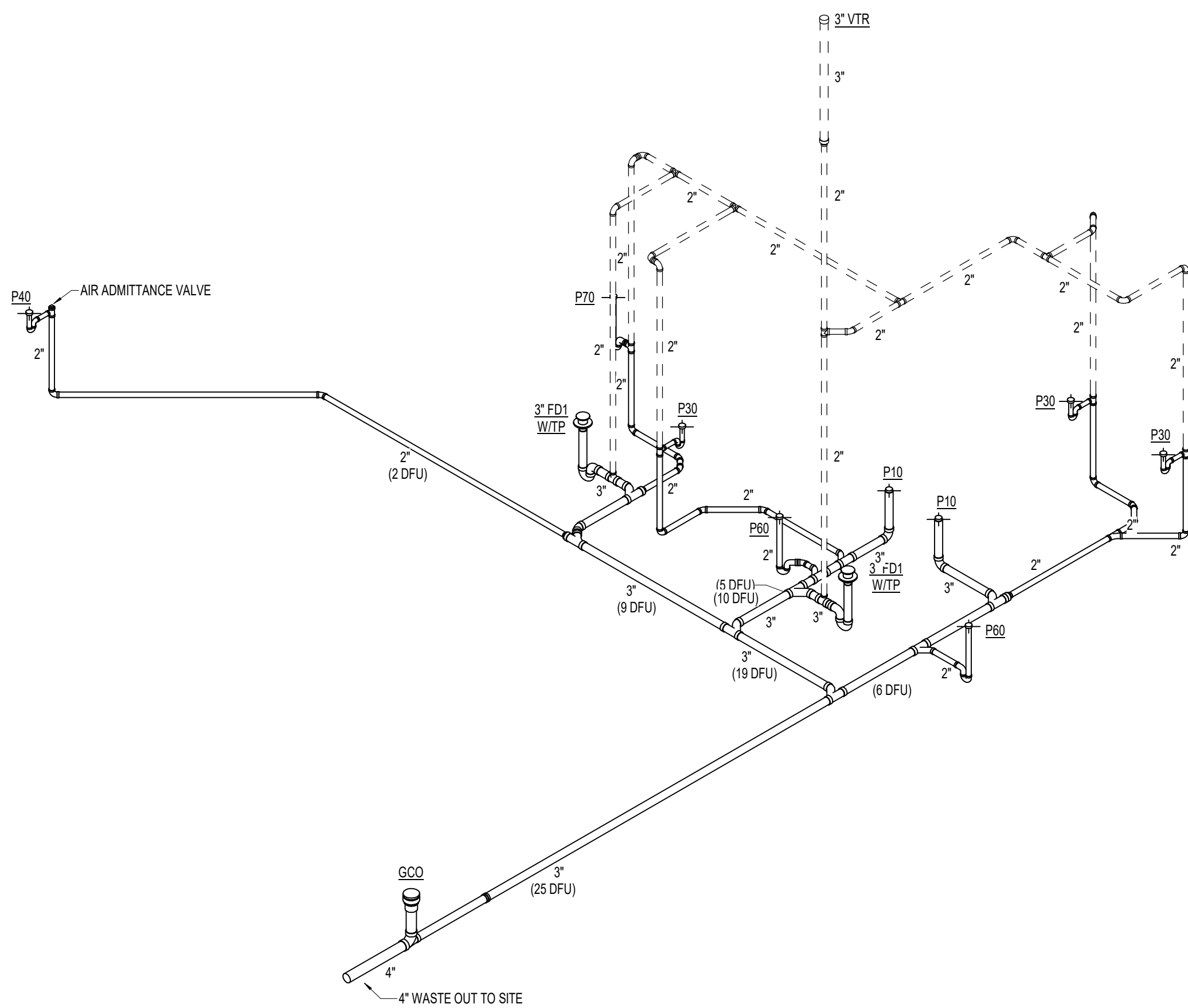
NO.	REVISION DESCRIPTION	DATE
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DRAWING TITLE
**ENLARGED UNIT PLANS -
COTTAGE C - WASTE AND
VENT**

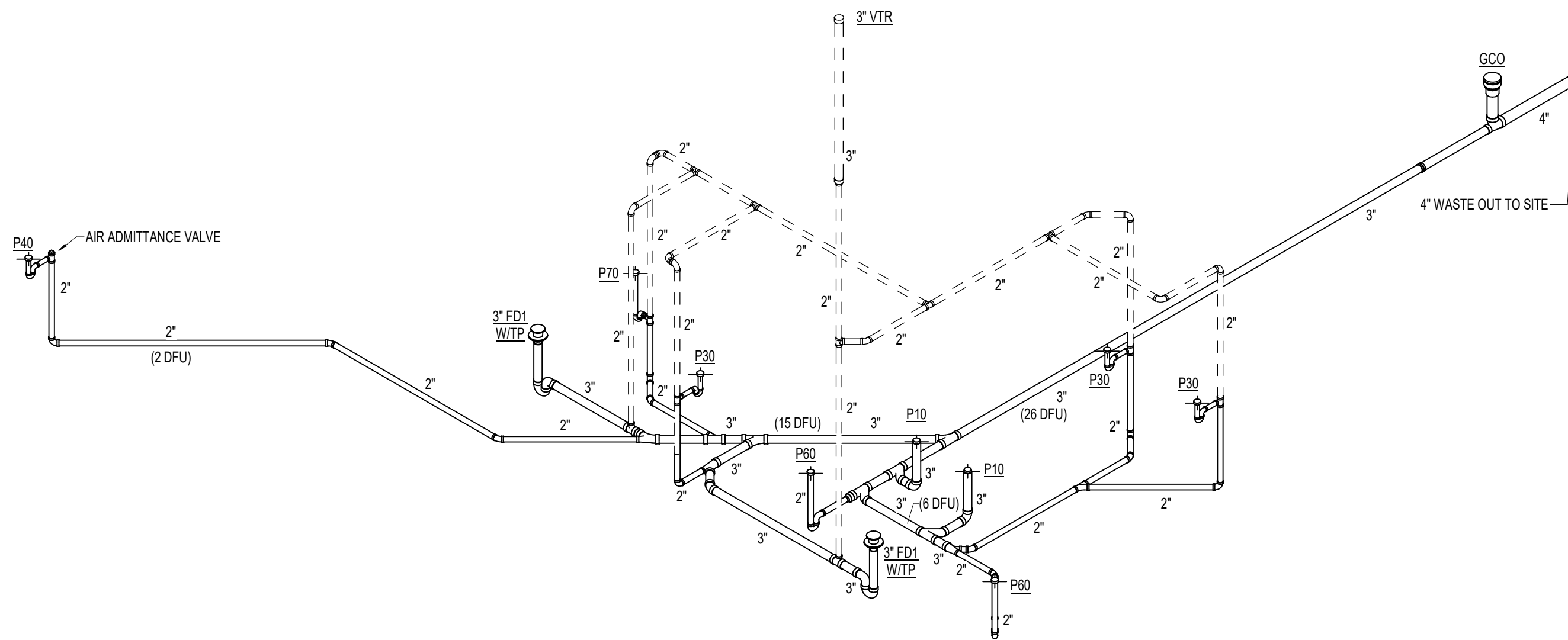
DATE:	MAY 26, 2026
COMM. NO.	18135.00

P2.12

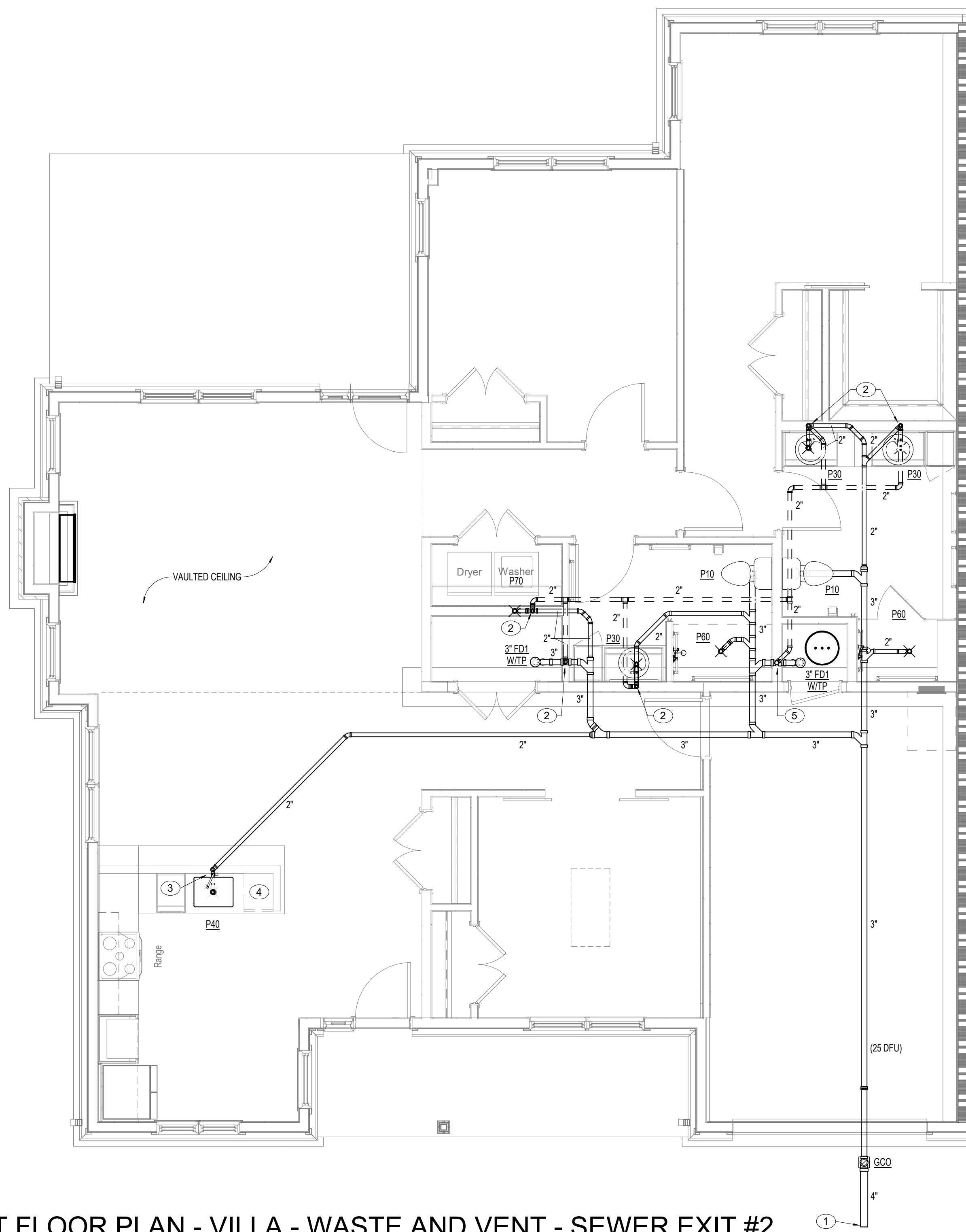
APPROVAL STAMPS



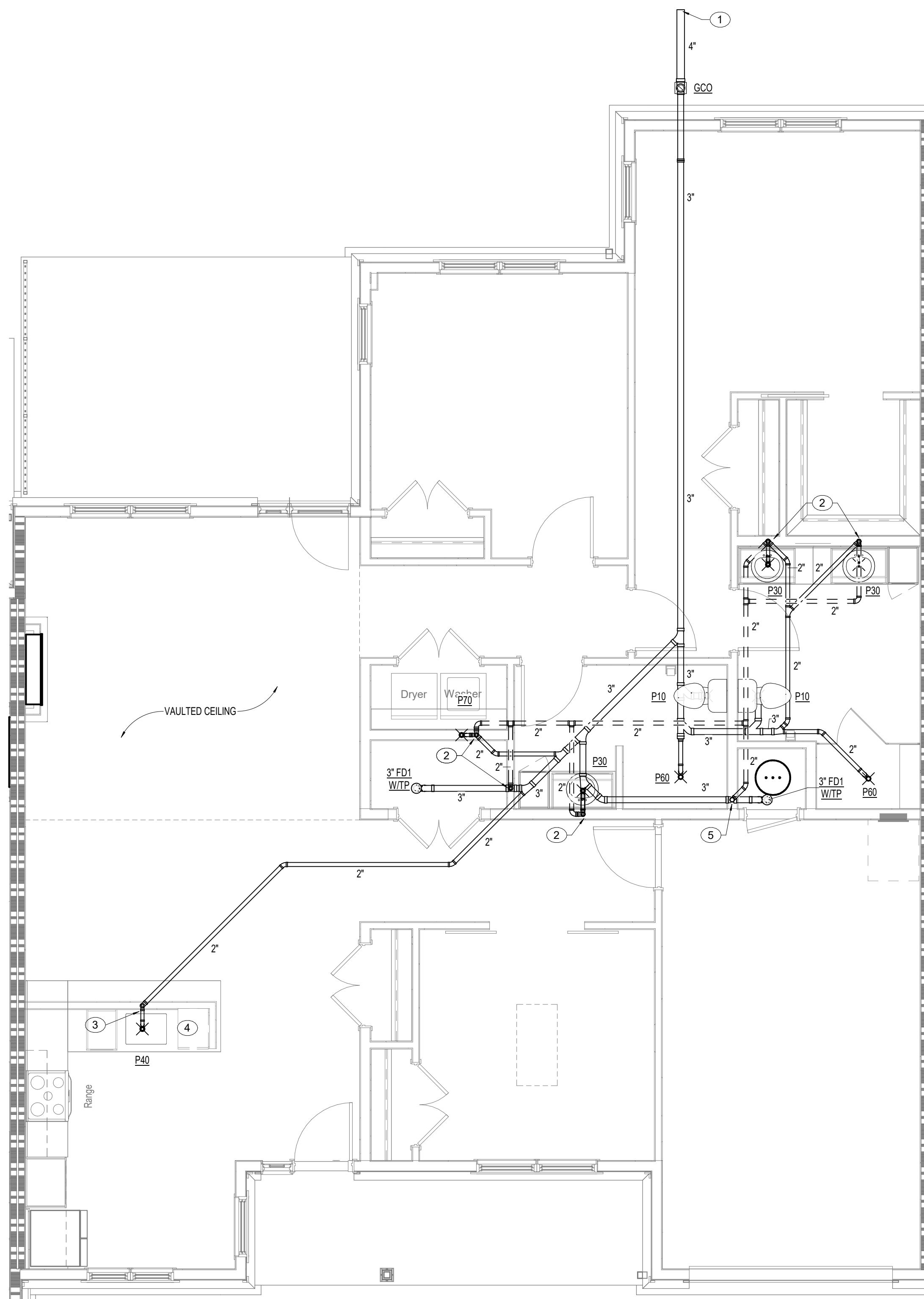
4 WASTE AND VENT RISER DIAGRAM - VILLA - SEWER EXIT #2
P2.13 N.T.S.



3 WASTE AND VENT RISER DIAGRAM - VILLA - SEWER EXIT #1
P2.13 N.T.S.



2 UNIT FLOOR PLAN - VILLA - WASTE AND VENT - SEWER EXIT #2
P2.13 1/4" = 1'-0"



1 UNIT FLOOR PLAN - VILLA - WASTE AND VENT - SEWER EXIT #1
P2.13 1/4" = 1'-0"

PLAN NOTES

1. 4" WASTE LINE OUT TO SITE 5'-0" REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 2" VENT LINE DOWN.
3. PROVIDE AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND ALL STATE AND LOCAL CODE REQUIREMENTS. 2" WASTE LINE DOWN TO BELOW SLAB.
4. EXTEND DRAIN LINE FROM DISHWASHER AND CONNECT TO WYE TAILPIECE AT KITCHEN SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
5. 2" VENT LINE DOWN. CONTINUE 2" VENT LINE UP. TRANSITION TO 3" VENT A MINIMUM 1'-0" BELOW ROOF. CONTINUE 3" VENT UP TO 2" VENT THROUGH ROOF.

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ARCHITECT : KAT/NSS	CHECKED : DPW/MAH/TWH
ENGINEER : AJM	APPROVED : AJM

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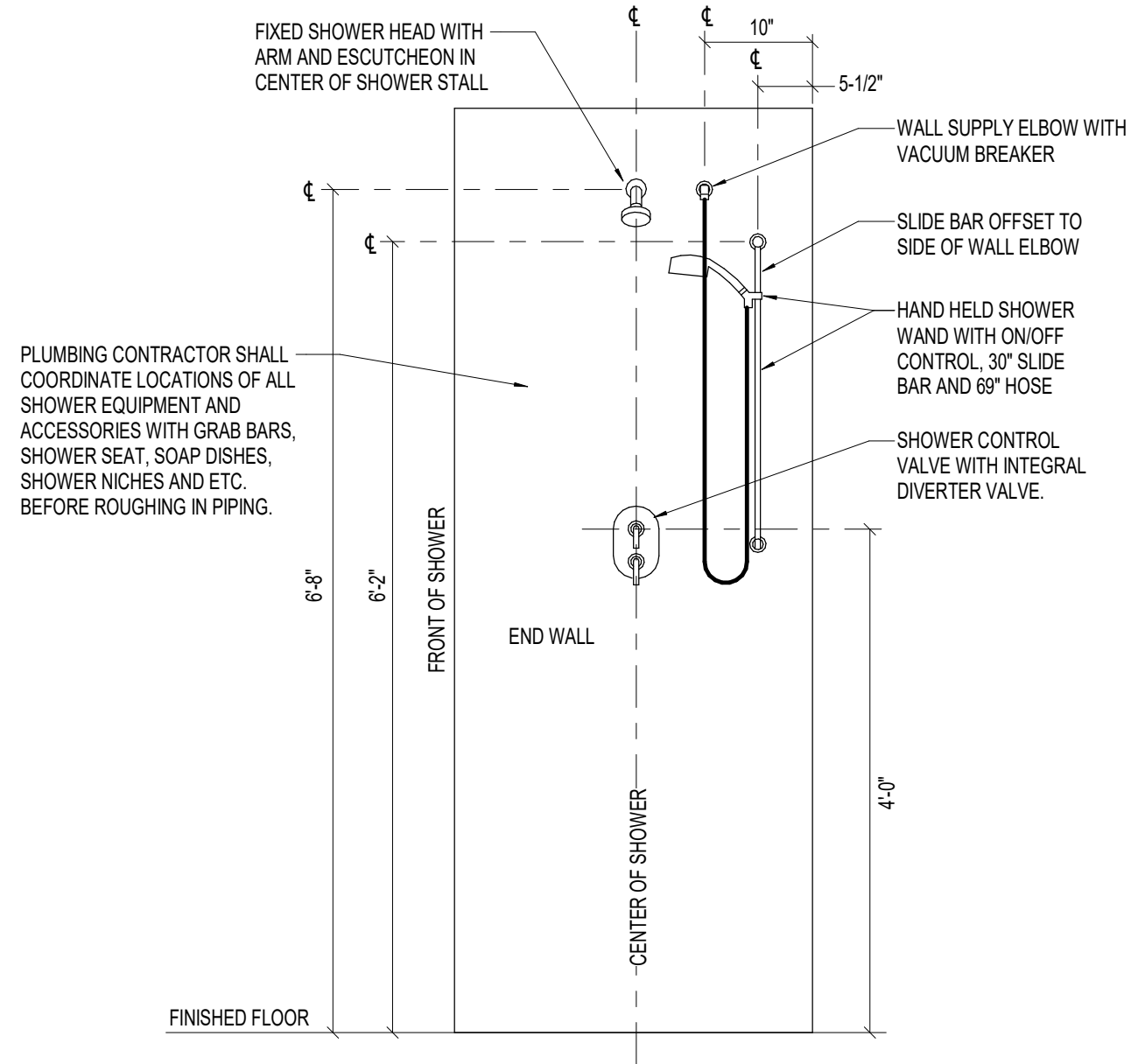
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ENLARGED UNIT PLANS -
VILLA - WASTE AND VENT

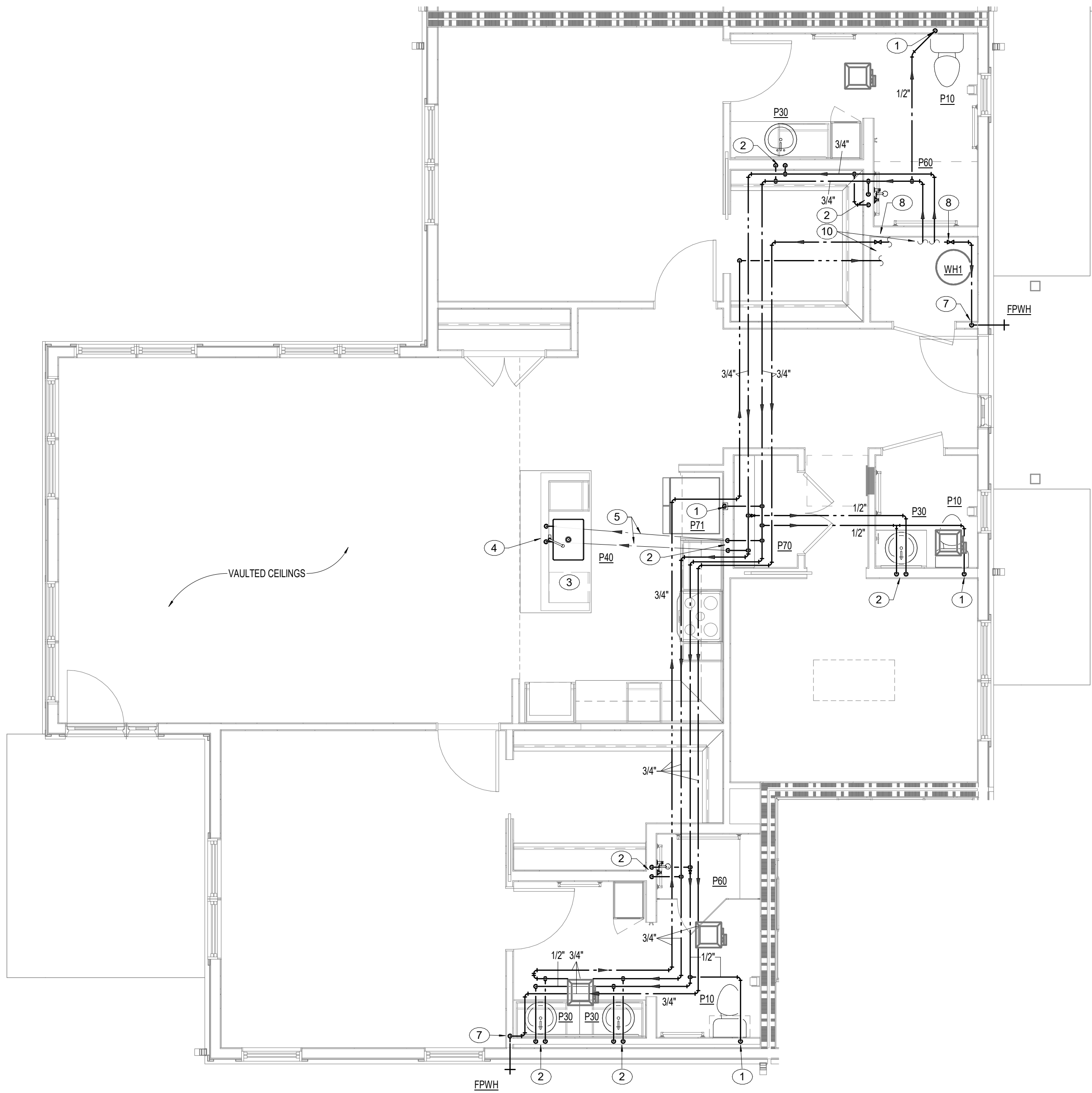
DATE: MAY 26, 2026

COMM. NO. 18135.00

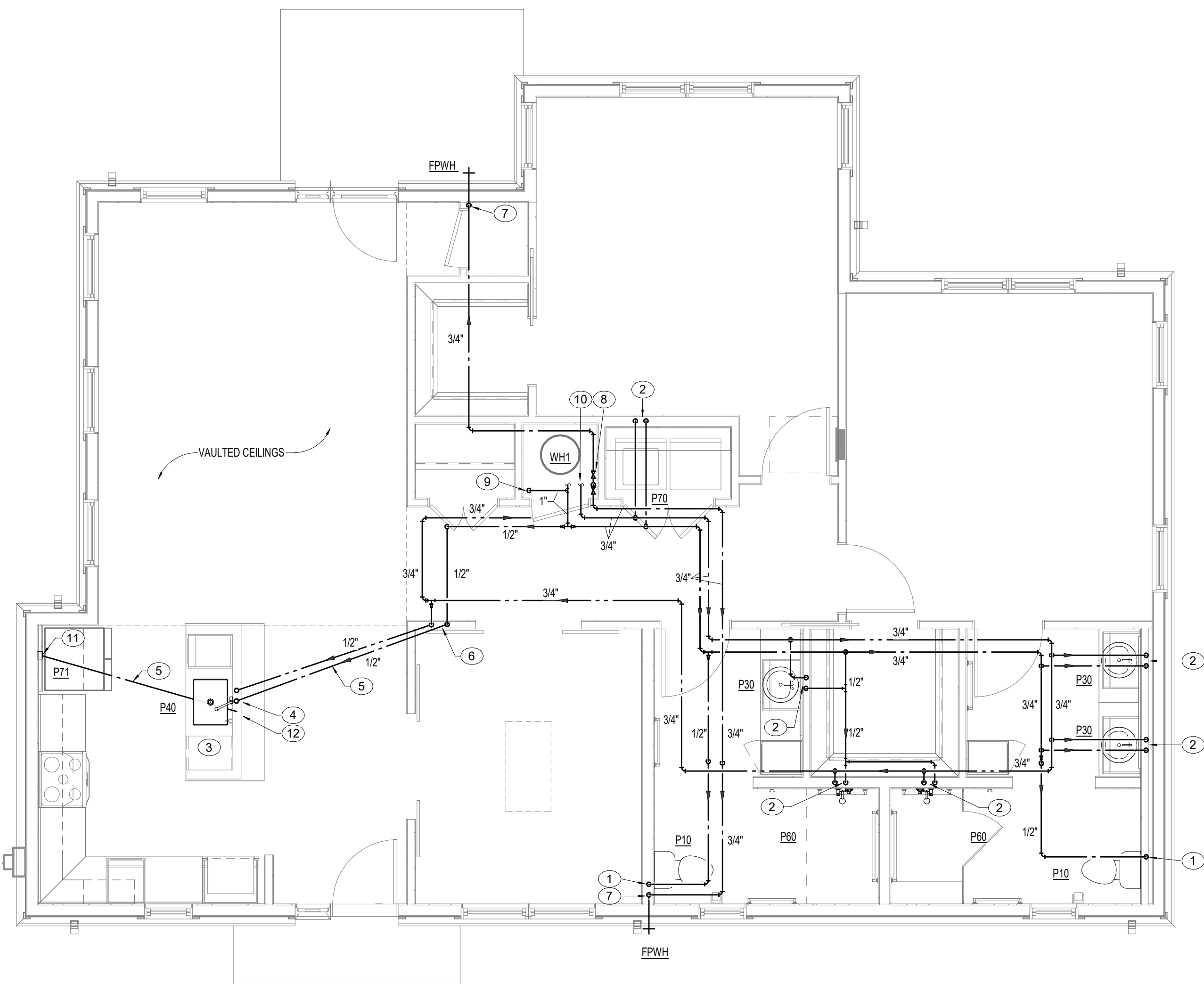
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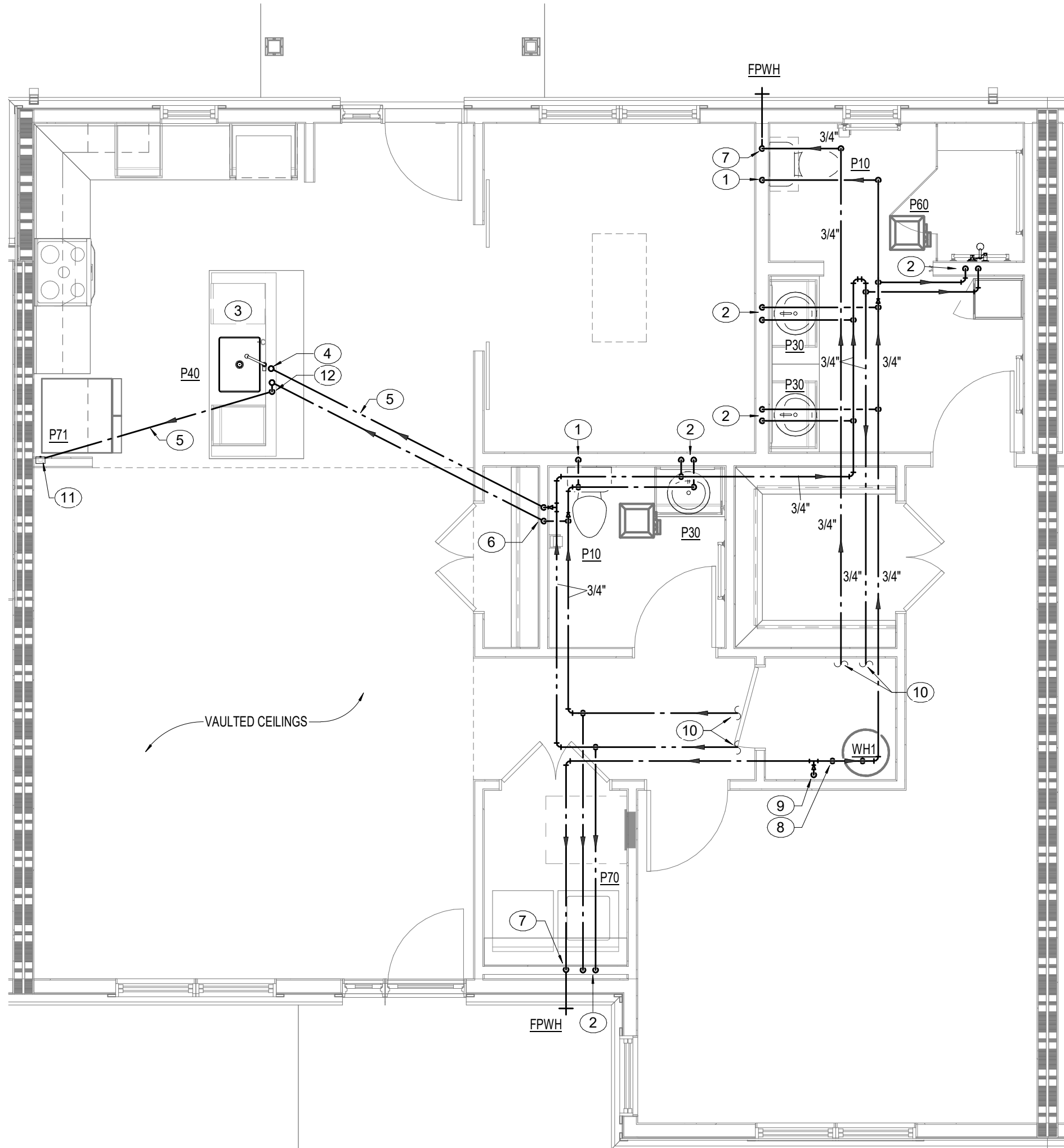
4 RESIDENT SHOWER WET WALL DETAIL - COTTAGE
P2.14 N.T.S.



2 UNIT FLOOR PLAN - COTTAGE C - WATER
P2.14 1/4\" = 1'-0"



3 UNIT FLOOR PLAN - COTTAGE B - WATER
P2.14 1/4\" = 1'-0"



1 UNIT FLOOR PLAN - COTTAGE A - WATER
P2.14 1/4\" = 1'-0"

PLAN NOTES

1. 1/2\" CW LINE DOWN TO FIXTURE AND CONNECT.
2. 1/2\" CW, 1/2\" HW LINES DOWN TO FIXTURES AND CONNECT.
3. PROVIDE 1/2\" VALVED HW LINE TO DISHWASHER AND CONNECT.
4. 1/2\" CW, HW LINES UP FROM BELOW SLAB TO FIXTURE AND CONNECT.
5. PROVIDE CLOSED CELL INSULATION ON 1/2\" CW / HW LINES BELOW SLAB.
6. 1/2\" CW, HW LINES DOWN TO BELOW SLAB.
7. 3/4\" CW DOWN TO EPWH AND CONNECT.
8. PROVIDE SHUT-OFF VALVES FOR EPWH IN AN ACCESSIBLE LOCATION BY WATER HEATER.
9. 1\" CW DOWN TO BACKFLOW PREVENTER.
10. REFER TO WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM ON SHEET P0.00 FOR CONTINUATION AND ADDITIONAL INFORMATION.
11. 1/2\" CW LINE UP FROM BELOW SLAB TO FIXTURE AND CONNECT.
12. 1/2\" CW LINE DOWN BELOW FLOOR SLAB. EXTEND TO FIXTURE AS INDICATED.

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DESIGNER : JGB	DRAWN : TWH / MAH
ARCHITECT : KAT / NSS	CHECKED : DPW / MAH / TWH
ENGINEER : AJM	APPROVED : AJM

NO.	REVISION DESCRIPTION	DATE
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DRAWING TITLE
ENLARGED UNIT PLANS - WATER

DATE: MAY 28, 2026	DRAWING
COMM. NO. 18135.00	

P2.14