

ABBREVIATIONS	
(E)	EXISTING ITEM
(EO)	EXISTING ITEM TO BE DEMOLISHED
(ER)	EXISTING ITEM TO BE RELOCATED
(RL)	RELOCATED ITEM
A	AQUASTAT
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANB	ACID NEUTRALIZATION BASIN
AO	AIR OUTLET
AP	ACCESS PANEL OR DOOR
AVTR	ACID VENT THROUGH ROOF
BF	BOTTLE FILLER
BFP	BACK FLOW PREVENTER
BUDS	BUILDING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CBV	CUBS BOX & VALVE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CLG	CEILING
CM	COFFEE MAKER
CO	CLEAN OUT
CONN	CONNECTION
CONT	CONTINUATION
CS	CUP SINK
CTL	COUNTER TOP LAVATORY
CTS	COUNTER TOP SINK
CW	COLD WATER
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DPU	DRAINAGE FIXTURE UNIT
DI	DEIONIZED WATER
DN	DUCTILE IRON PIPE
DN	DOWN
DSB	DOWNSPOUT BOOT
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWC	DRAWING
DWP	DOMESTIC WATER PUMP
DWRH	DOMESTIC WATER REHEATER
DWSM	DOMESTIC WATER SUB METER
EA	EACH
EC	ELECTRICAL CONTRACTOR
EXG	EMERGENCY GENERAL EXHAUST
ET	EXPANSION TANK
EWC	ELECTRICAL WATER COOLER
EW	ELECTRICAL WATER HEATER
FAI	FRESH AIR INTAKE
FCC	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FM	FORCED MAIN
FFC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
FT	FEET
GC	GENERAL CONTRACTOR
GCO	GROUND CLEAN OUT
GD	GARAGE DRAIN
GI	GREASE INTERCEPTOR
GO	GAS OUTLET
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIB
HW	HOT WATER
HWR	HOT WATER RETURN
HWRP	HOT WATER RETURN PUMP
HX	HEAT EXCHANGER
IE	INVERT ELEVATION
IM	ICE MAKER
IW	INDIRECT WASTE
KS	KITCHEN SINK
LA	LABORATORY AIR

ABBREVIATIONS	
LAV	LAVATORY
LDR	LEADER
LJ	LINT INTERCEPTOR
LPC	LIMIT OF PLUMBING CONTRACTOR
M	METER
MA	MEDICAL AIR
MBH	1000 BRITISH THERMAL UNITS
MC	MECHANICAL CONTRACTOR
MH	MANHOLE
MR	NCP RECEPTOR
MV	MIXING VALVE
N	NITROGEN
NZO	NITROUS OXIDE
N.I.C	NOT IN CONTRACT
NC	NORMALLY CLOSED
NGSM	NATURAL GAS SUB-METER
NGSV	NATURAL GAS SOLENOID VALVE
NO	NORMALLY OPEN
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OD	OVERFLOW DRAIN
PC	PLUMBING CONTRACTOR
PD	POOL DRAIN
PL	PLANTER
PP	POLYPROPYLENE
PRESS	PRESSURE
PRV	PRESSURE REDUCING / REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLY VINYL CHLORIDE
RD	ROOF DRAIN
RH	ROOF HYDRANT
RO	REVERSE OSMOSIS WATER
RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
RPPD	REDUCED PRESSURE DETECTOR ASSEMBLY
RWC	RAIN WATER CONDUCTOR
SA	SHOCK ABSORBER
SAN	SANITARY
SDB	SUPPLY DRAIN BOX
SE	SEWAGE EJECTOR
SF	SQUARE FEET, FOOT
SHR	SHOWER
SI	SEDIMENT INTERCEPTOR
SK	SINK
SDB	SUPPLY OUTLET BOX
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORAGE TANK
STD	STAND PIPE
TB	TRENCH BLOCK
TD	TRENCH DRAIN
TDM	TOTAL DYNAMIC HEAD
TMV	THERMOSTATIC MIXING VALVE
TOP	TOP OF PIPE
TP	TRAP PRIMER
TRP	TYPICAL
UF	UNDERFLOOR
UR	URINAL
V	VENT
VAC	VACUUM
VB	VACUUM BREAKER
VE	VACUUM EXHAUST
VIF	VERIFY IN FIELD
VO	VACUUM OUTLET
VTR	VENT THROUGH ROOF
W	WASTE
W	WITH
WO	W/TH OUT
WC	WATER CLOSET OR WATER COLUMN
WCO	WALL CLEAN OUT
WF	WATER FILTER
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER
WO	WATER OUTLET
WSFU	WATER SUPPLY FIXTURE UNIT

MISC TAGS AND SYMBOLS	
	KEYED NOTE
	DEMOLITION NOTE
	KITCHEN EQUIPMENT TAG
	REVISION NUMBER X
	DISTANCE TO FINISH FLOOR (FEET & INCHES) FROM BOTTOM OF PIPE INDICATES CONNECT NEW TO EXISTING
	INDICATES LIMIT OF REMOVAL
	COLD WATER RISER TAG
	HOT WATER RETURN RISER TAG
	HOT WATER RISER TAG
	NATURAL GAS RISER TAG
	RAIN WATER CONDUCTOR TAG
	SANITARY STACK TAG
	VENT STACK TAG
	EQUIPMENT TAG
	SECTION SYMBOL
	SECTION DESIGNATION
	DRAWING NUMBER LOCATION
	DETAIL SYMBOL
	DRAWING NUMBER LOCATION

PIPE LOCATION NOTES	
	CONCEALED IN CEILING SPACE ABOVE
	EXPOSED IN STRUCTURE ABOVE
	CONCEALED IN CEILING SPACE, BELOW FLOOR
	EXPOSED ON STRUCTURE, FLOOR BELOW
	BELOW GRADE
	RACK ON WALL, BELOW COUNTER TOP
	ABOVE FLOOR
	RUN THROUGH OR BETWEEN BAR JOIST
	CONCEALED BELOW RAISED FLOOR

VALVES AND ACCESSORIES	
	GATE VALVE
	OSV VALVE
	FLOW CONTROL VALVE
	THERMOSTATIC MIXING VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	GAS COCK
	BALANCING VALVE
	PRESSURE / TEMPERATURE RELIEF VALVE
	BALL VALVE
	CHECK VALVE
	IN-LINE STRAINER
	UNION
	DRAIN VALVE
	FLANGED CONNECTION
	PRESSURE GAUGE
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	CLEAN OUT
	FLOOR OR GROUND CLEAN OUT
	STACK CLEAN OUT
	LINE CLEAN OUT
	CLEAN OUT @ GRADE
	BACK WATER VALVE
	BACK WATER VALVE (IN PIT)
	CAPPED PIPE
	WASTE AND TRAP
	PIPE TURNING DOWN OR RISING
	PIPE RISING / OR RISING AND DROPPING
	PIPE DROP OR RISING 45°
	PIPE DROP OR RISING 90°
	MASTER GAS VALVE
	VALVE IN VERTICAL
	AQUASTAT (A)
	VACUUM BREAKER (VB)
	WATER HAMMER ARRESTOR (WHA)
	WATER HAMMER ARRESTOR W/ ACCESS PANEL (WHAAP)
	KITCHEN FLOOR SINK (FS)
	AREA FLOOR DRAIN (AD)
	FLOOR DRAIN (FD)
	GARAGE FLOOR DRAIN (GD)
	HOSE BIB (HB) OPEN / CLOSED
	WALL HYDRANT (WH) OPEN / CLOSED
	ROOF / OVERFLOW DRAIN
	ROOF / OVERFLOW DRAIN ABOVE
	TRENCH DRAIN
	DOUBLE CHECK DETECTOR ASSEMBLY (DCDA)
	DOUBLE CHECK VALVE ASSEMBLY (DCVA)
	REDUCED PRESSURE BACKFLOW PREVENTER (RBPB)
	REDUCED PRESSURE DETECTOR ASSEMBLY (RPPDA)
	PUMP

PLUMBING PIPING LEGEND	
	(140° HW) 140° HOT WATER
	(140° HWR) 140° HOT WATER CIRC
	(AR) ARGON
	(ARV) ARGON VENT
	(CA) COMPRESSED AIR
	(CW) COLD WATER
	(FM) FORCE MAIN
	(G) GAS
	(GD) GARAGE DRAIN
	(H2) HYDROGEN
	(H2V) HYDROGEN VENT
	(HE) HELIUM
	(HEV) HELIUM VENT
	(HW) HOT WATER
	(HWR) HOT WATER RECIRC
	(IA) INSTRUMENT AIR
	(IW) INDIRECT WASTE
	(LA) LAB AIR
	(LV) LAB VENT
	(LW) LAB WASTE
	(LN) LIQUID NITROGEN
	(N2) NITROGEN
	(N2V) NITROGEN VENT
	(NPW) NON POTABLE WATER
	(OFD) OVERFLOW DRAIN
	(O2) OXYGEN
	(SAN) SANITARY
	(ST) STORM
	(TP) TRAP PRIMER
	(VA) VACUUM
	(V) VENT
	(W) WASTE

- GENERAL NOTES
1.

THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
2.

THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL GUIDELINES, MANUFACTURERS LITERATURE AND RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
3.

THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
4.

INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
5.

THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK," "ELECTRICAL WORK," "PLUMBING WORK," ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
6.

THE CM/GO SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS, AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB-CONTRACTOR ON EACH PROJECT TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS. THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GO. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
7.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTORS COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTORS INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
8.

CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES.
9.

THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.
10.

FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.
11.

THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.
12.

WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.
13.

CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
14.

PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
15.

CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
16.

CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
17.

CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
18.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL, SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THE CONTRACTOR.
19.

ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS.
20.

CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
21.

RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
22.

PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
23.

IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
24.

BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPORTING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC FILES ARE SAVED IN VERSION REVIT 2020 AND ARE COMPATIBLE WITH ALL VERSIONS AFTER THAT. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS UNLAWFUL.

- PLUMBING GENERAL NOTES
1.

DRAWINGS INDICATE GENERAL LOCATION OF WORK INCLUDED. PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF WORK WITH ALL OTHER TRADES. COORDINATE THE FINAL LOCATION OF THE PLUMBING FIXTURES WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS.
2.

INSTALL ALL FIXTURES, AND EQUIPMENT IN CONFORMANCE WITH ARCHITECTURAL DRAWINGS, MANUFACTURERS RECOMMENDATIONS AND AUTHORITY HAVING JURISDICTION. COORDINATE ALL ROUGH-IN INFORMATION WITH FUTURE AND EQUIPMENT SUPPLIERS.
3.

PROVIDE HANDICAPPED FIXTURES IN CONFORMANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA). INSULATE ALL PIPING BELOW ADA FIXTURES. COORDINATE COLORS WITH ARCHITECT WHERE INDICATED.
4.

CONTRACTOR SHALL PROVIDE DOMESTIC WATER SERVICE RESTRAINTS AND THRUST BLOCKS AS REQUIRED.
5.

INSTALL ISOLATION VALVES ON ALL BRANCH PIPING UNLESS OTHERWISE NOTED. PROVIDE SHUT OFF VALVES TO ALL FIXTURES AND EQUIPMENT.
6.

PROVIDE WATER HAMMER ARRESTERS ON DOMESTIC WATER PIPING IN CONFORMANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE.
7.

CONNECT ALL SERVICE BRANCHES TO TOP OF SERVICE MAINS WHERE POSSIBLE. PROVIDE DRAIN VALVES AT ALL LOW POINTS IN SERVICE PIPING SYSTEMS.
8.

SLOPE ALL WASTE PIPING IN CONFORMANCE WITH APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION.
9.

PROVIDE THE REQUIRED FITTINGS AT EACH INDIRECT WASTE PIPE DISCHARGE TO ALLOW REMOVAL OF THE LAST 12" OF INDIRECT WASTE PIPING IN ORDER TO GAIN ACCESS AND PERMIT REMOVAL OF THE SEDIMENT BASKET AS REQUIRED.
10.

SUPPORT ALL PIPING IN CONFORMANCE WITH ANSISMS5-58 AND 69 AND THE AUTHORITY HAVING JURISDICTION.
11.

ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH UL LISTED FIREPROOFING SYSTEM TO MATCH THE RATING OF THE WALL OR FLOOR.
12.

DO NOT INSTALL PIPING IN DEDICATED ELECTRICAL SPACES OR ABOVE ANY ELECTRICAL EQUIPMENT, PANELS, ETC AS NOTED IN THE NATIONAL ELECTRIC CODE.
13.

PROVIDE HEAT TRAPS ON STORAGE TYPE WATER HEATING EQUIPMENT AS REQUIRED BY THE APPLICABLE ENERGY CODE.
14.

PRESSURE TEST AND STERILIZE THE ENTIRE DOMESTIC WATER PIPING SYSTEM FROM POINT OF NEW CONNECTION IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE.
15.

ALL NATURAL GAS PIPING LOCATED WITHIN THE BUILDING BELOW SLAB ON GRADE CONDITIONS SHALL BE ROUTED WITHIN CONDUIT WITH LONG SWEEP ELBOWS AND THE CONDUIT SHALL BE TERMINATED IN ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE OR REQUIREMENTS SET FORTH BY THE LOCAL AUTHORITY HAVING JURISDICTIONS.
16.

ALL NATURAL GAS SUPPLY CONNECTIONS TO EQUIPMENT OR APPLIANCES THAT INCLUDE VIBRATION ISOLATION SHALL BE MADE WITH A CSA LISTED FLEXIBLE APPLIANCE CONNECTOR.
17.

WHERE CONNECTING TO EXISTING PIPING SYSTEMS, INSPECT PIPING FOR DEFECTS. NOTIFY OWNERS REPRESENTATIVE IF EXISTING PIPING IS FOUND TO BE IN UNSATISFACTORY CONDITION TO DETERMINE IF REPLACEMENT IS NECESSARY.
18.

COORDINATE ALL SYSTEM SHUT DOWN TIMES WITH OWNERS REPRESENTATIVE.
19.

PLUMBING WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER THAT WILL LEAST INTERFERE WITH OTHER TENANTS, MAINTENANCE OPERATIONS AND OTHER BUILDING ACTIVITIES.
20.

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL ANCILLARY DEVICES NOT LIMITED TO BACKFLOW PREVENTERS, ISOLATION VALVES, UNIONS, PRESSURE REDUCING VALVES AND STRAINERS AT EACH PIECE OF PLUMBING EQUIPMENT AS REQUIRED BY THE PLUMBING DESIGN, APPLICABLE CODES AND STANDARDS, INCLUDING MANUFACTURERS RECOMMENDED INSTALLATION REQUIREMENTS, IN ORDER TO PROVIDE A FULLY FUNCTIONAL AND OPERATING PLUMBING SYSTEM.
21.

THE PLUMBING CONTRACTOR SHALL PROVIDE FUSED DISCONNECTS FOR CONTROLLERS MEETING THE MINIMUM SCOR RATING OF BASIS OF DESIGN PUMP SPECIFICATIONS IF THE MANUFACTURER OF THE CONTRACTORS SUBMITTED PUMP SET SCOR RATING CANNOT BE MET.

		REVISION LEGEND		NEW ISSUE		REVISED ISSUE		REVISED, NOT ISSUED	
				REMOVED FROM DRAWING SET				ISSUED, NOT REVISED	
		DRAWING LIST - PLUMBING							
DRAWING NUMBER	DRAWING TITLE	1/10/2022 - SCHEMATIC BUDGET PRICING SET	12/20/2022 - PERMIT SET						
P0.01	PLUMBING COVER SHEET	●							
P0.11	PLUMBING RISER DIAGRAMS	○							
P0.21	PLUMBING SCHEDULES	●							
P0.31	PLUMBING DETAILS	●							
P0.32	PLUMBING DETAILS	●							
P2.01A	PLUMBING - RETAIL LEVEL PLAN A	●							
P2.01B	PLUMBING - RETAIL LEVEL PLAN B	●							
P2.02B	PLUMBING - CLUB LEVEL 1 PLAN B	●							
P2.03A	PLUMBING - CLUB LEVEL 2 PLAN A	●							
P2.03B	PLUMBING - CLUB LEVEL 2 PLAN B	●							
P2.03C	PLUMBING - CLUB LEVEL 2 PLAN C	●							
P2.03D	PLUMBING - CLUB LEVEL 2 PLAN D	●							
P2.04A	PLUMBING - FIRST FLOOR PLAN A	●							
P2.04B	PLUMBING - FIRST FLOOR PLAN B	●							
P2.04C	PLUMBING - FIRST FLOOR PLAN C	●							
P2.04D	PLUMBING - FIRST FLOOR PLAN D	●							
P2.05A	PLUMBING - SECOND FLOOR PLAN A	●							
P2.05B	PLUMBING - SECOND FLOOR PLAN B	●							
P2.05C	PLUMBING - SECOND FLOOR PLAN C	●							
P2.05D	PLUMBING - SECOND FLOOR PLAN D	●							
P2.06A	PLUMBING - THIRD FLOOR PLAN A	●							
P2.06B	PLUMBING - THIRD FLOOR PLAN B	●							
P2.06C	PLUMBING - THIRD FLOOR PLAN C	●							
P2.06D	PLUMBING - THIRD FLOOR PLAN D	●							
P2.07A	PLUMBING - FOURTH FLOOR PLAN A	●							
P2.07B	PLUMBING - FOURTH FLOOR PLAN B	●							
P2.07C	PLUMBING - FOURTH FLOOR PLAN C	●							
P2.07D	PLUMBING - FOURTH FLOOR PLAN D	●							
P2.08A	PLUMBING - ROOF PLAN A	●							
P2.08B	PLUMBING - ROOF PLAN B	●							
P2.08C	PLUMBING - ROOF PLAN C	●							
P2.08D	PLUMBING - ROOF PLAN D	●							
P6.01	PLUMBING - UNIT PLANS	●							
P6.02	PLUMBING - UNIT PLANS	●							
P6.03	PLUMBING - UNIT PLANS	●							
P6.04	PLUMBING - UNIT PLANS	●							
P6.05	PLUMBING - UNIT PLANS	●							
P6.06	PLUMBING - UNIT PLANS	●							

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NO.	REVISION	DATE
1	PERMIT SET	12/28/2022

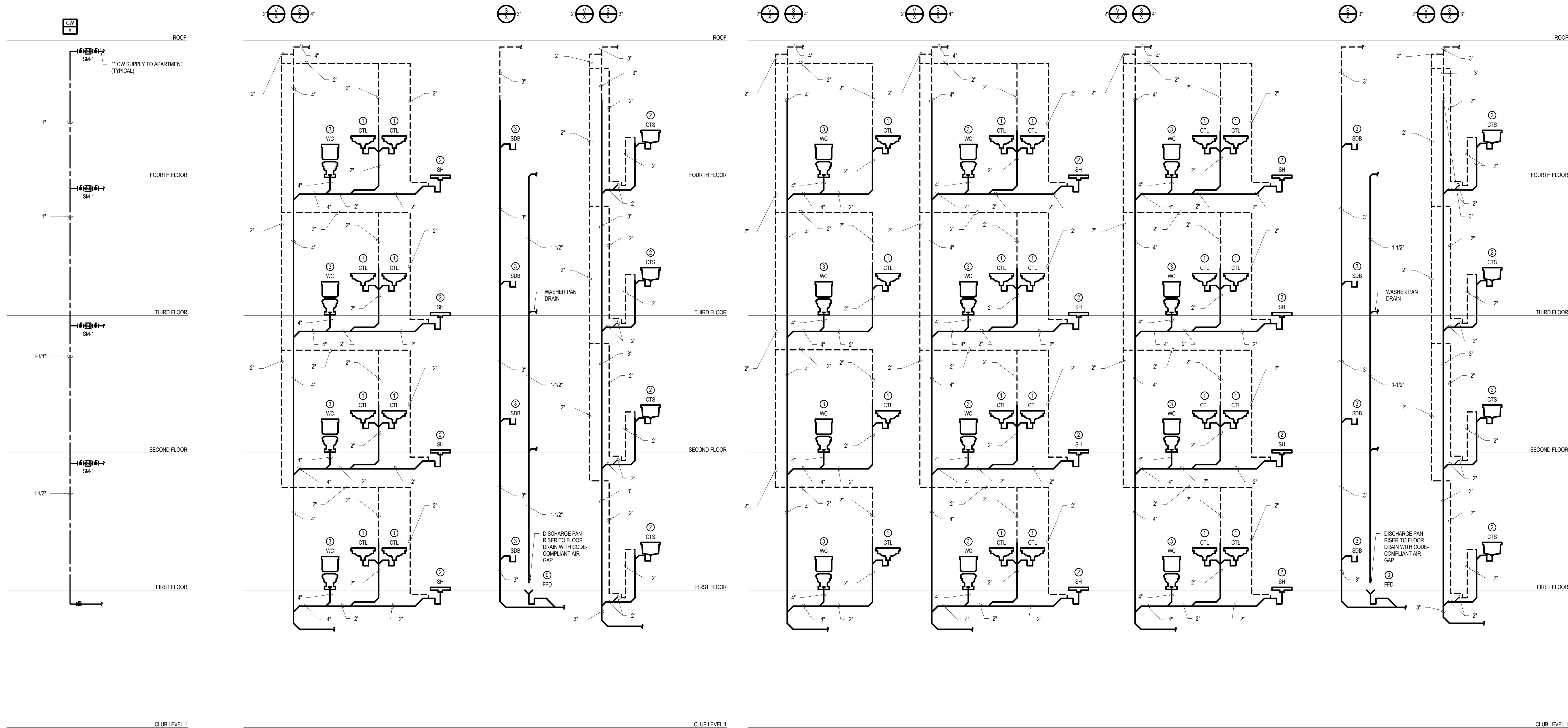
Project Status

PLUMBING RISER DIAGRAMS
Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 01/12/23

P0.11
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1 TYPICAL APARTMENT DOMESTIC WATER RISER
P0.11 NOT TO SCALE

2 TYPICAL 1-BEDROOM APARTMENT SANITARY RISER
P0.11 NOT TO SCALE

3 TYPICAL 2-BEDROOM APARTMENT SANITARY RISER
P0.11 NOT TO SCALE

NOTE: PLUMBING RISERS ARE FOR PRICING PURPOSES ONLY

PLUMBING FIXTURE SCHEDULE - APARTMENTS								
NO.	FIXTURE	MANUFACTURER	FAUCET / FLUSH VALVE	CARRIER / SUPPORT	ACCESSORIES			MISC.
					SUPPLIES	DRAIN ASSEMBLY	TRAP	
WC-1	WATER CLOSET	MANFIELD ALTO 137-100 (1.8 GPF)	-	FLOOR MOUNTED			INTEGRAL	SEAT: BEMS 120SLOWT
CTL-1	COUNTERTOP LAVATORY	(SINK BY GC)	MOEN RIZON 6800 (1.2 GPM)	COUNTERTOP BY GC	McGUIRE H8154C	McGUIRE H8154C	McGUIRE 8872-C	TRUEBRO INC HAND/LAV GUARD MODEL 102 (TRIP & SUPPLIES)
CTS-1	COUNTERTOP SINK	(SINK BY GC)	MOEN ALJEN 7950 (1.5 GPM)	COUNTERTOP BY GC	McGUIRE LF8170	McGUIRE 151A	McGUIRE 8912-C	PROVIDE WATTS 760 002 DISHWASHER TALLPIECE
CTS-2	COUNTERTOP SINK DOUBLE BOWL	(SINK BY GC)	MOEN ALJEN 7950 (1.5 GPM)	COUNTERTOP BY GC	McGUIRE LF8170	McGUIRE 151A	McGUIRE 8912-C	PROVIDE WATTS 760 002 DISHWASHER TALLPIECE
BT-1	BATHTUB	STERLING ENSEMBLE 71101112	MOEN POSI-TEMP T2133 SERIES (2.5 GPM)	FLOOR MOUNTED		WATCO 502 FA-BRS-CR-U	FIELD FABRICATED	SUP JOINTS SHALL NOT BE PERMITTED ON TUB DRAIN OVERFLOWS. CONNECTIONS SHALL BE HARD-PIPED. PROVIDE MOEN 2500 SERIES VALVE
SH-1	SHOWER	FLORESTONE 6034-1	MOEN POSI-TEMP T2132 SERIES (2.5 GPM)	FLOOR MOUNTED		INTEGRAL	FIELD FABRICATED	PROVIDE MOEN 2500 SERIES VALVE

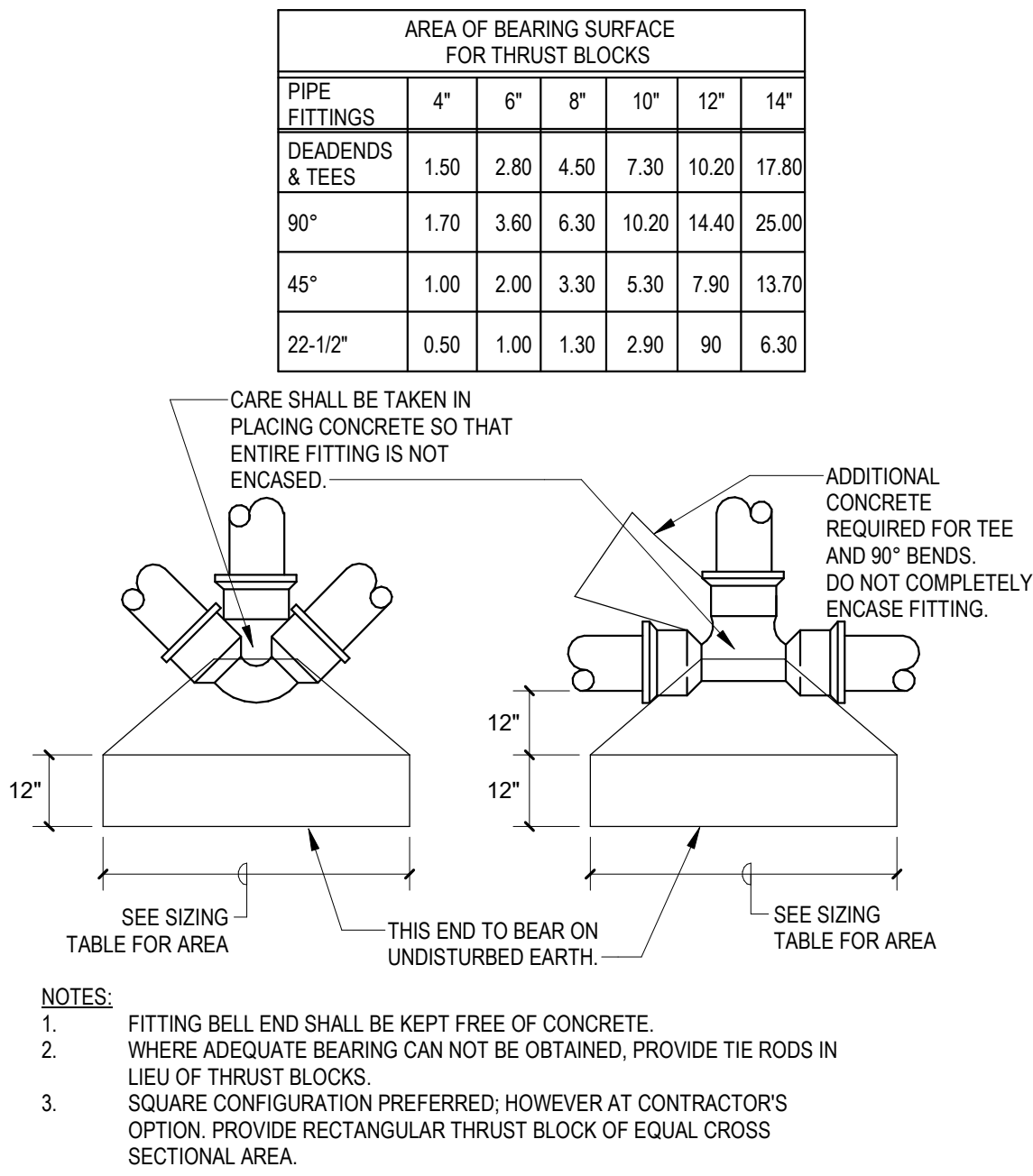
PLUMBING FIXTURE CONNECTION SCHEDULE								
NO.	FIXTURE	TRAP	DRAIN	DFU	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET	INTEGRAL	4"	4	2"	1/2"		
WC-2	WATER CLOSET	INTEGRAL	4"	3	2"	1 1/4"		
UR-1	URNAL	INTEGRAL	2"	4	1-1/4"	3/4"		
LAV-1	LAVATORY	1-1/4"	1-1/4"	1	1-1/4"	1/2"	1/2"	
CTL-1	COUNTER TOP LAVATORY	1-1/4"	1-1/4"	1	1-1/4"	1/2"	1/2"	
CTS-1	COUNTER TOP SINK	1-1/2"	1 1/2"	2	1-1/4"	1/2"	1/2"	
CTS-2	COUNTER TOP SINK	1-1/2"	1 1/2"	2	1-1/4"	1/2"	1/2"	
EW-1	ELECTRIC WATER COOLER	1-1/4"	1 1/4"	0.5	1-1/4"	1/2"		
MR-1	MOP RECEPTOR	3"	3"	2	1-1/2"	1/2"	1/2"	
SH-1	SHOWER	2"	2"	2	1-1/4"	1/2"	1/2"	NO SLIP-JOINTS PERMITTED IN DRAIN ASSEMBLY
BT-1	BATHTUB	1-1/2"	1-1/2"	2	1-1/4"	1/2"	1/2"	NO SLIP-JOINTS PERMITTED IN DRAIN ASSEMBLY

PLUMBING DRAIN SCHEDULE																
NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	BODY						TOP						REMARKS
				CI	GALV	BR	ARC	SS	PP	GALV	PB	NB	CI	SS	PP	
FD-1	FLOOR DRAIN	JOSAM	30000-5A-50	●							●				TOILET ROOMS / GENERAL AREA INCLUDE TRAP SEAL INSERT (TRAPGUARD OR EQUAL)	
FD-2	FLOOR DRAIN	JOSAM	32300-5D-50-45	●							●				MECHANICAL ROOM INCLUDE TRAP SEAL INSERT (TRAPGUARD OR EQUAL)	
FFD-1	FUNNEL FLOOR DRAIN	JOSAM	30000-E2	●							●				LAUNDRY / WATER HEATER CLOSETS (RESIDENTIAL UNITS) INCLUDE TRAP SEAL INSERT (TRAPGUARD OR EQUAL)	
AD-1	AREA DRAIN	JOSAM	35100-1	●							●				GENERAL AREAS	
GD-1	GARAGE DRAIN	JOSAM	37810-7								●				GARAGE	
TD-1	TRENCH DRAIN	JOSAM	76010								●				RAMPS / LOADING DOCKS - CONTRACTOR SHALL PROVIDE EXTENSION SECTIONS AS REQUIRED	
RD-1	ROOF DRAIN	JOSAM	21500-AE-3	●										●	POLY DOME	
RD-2	ROOF DRAIN	JOSAM	21500-AE-3-16	●										●	POLY DOME SECONDARY DRAIN	

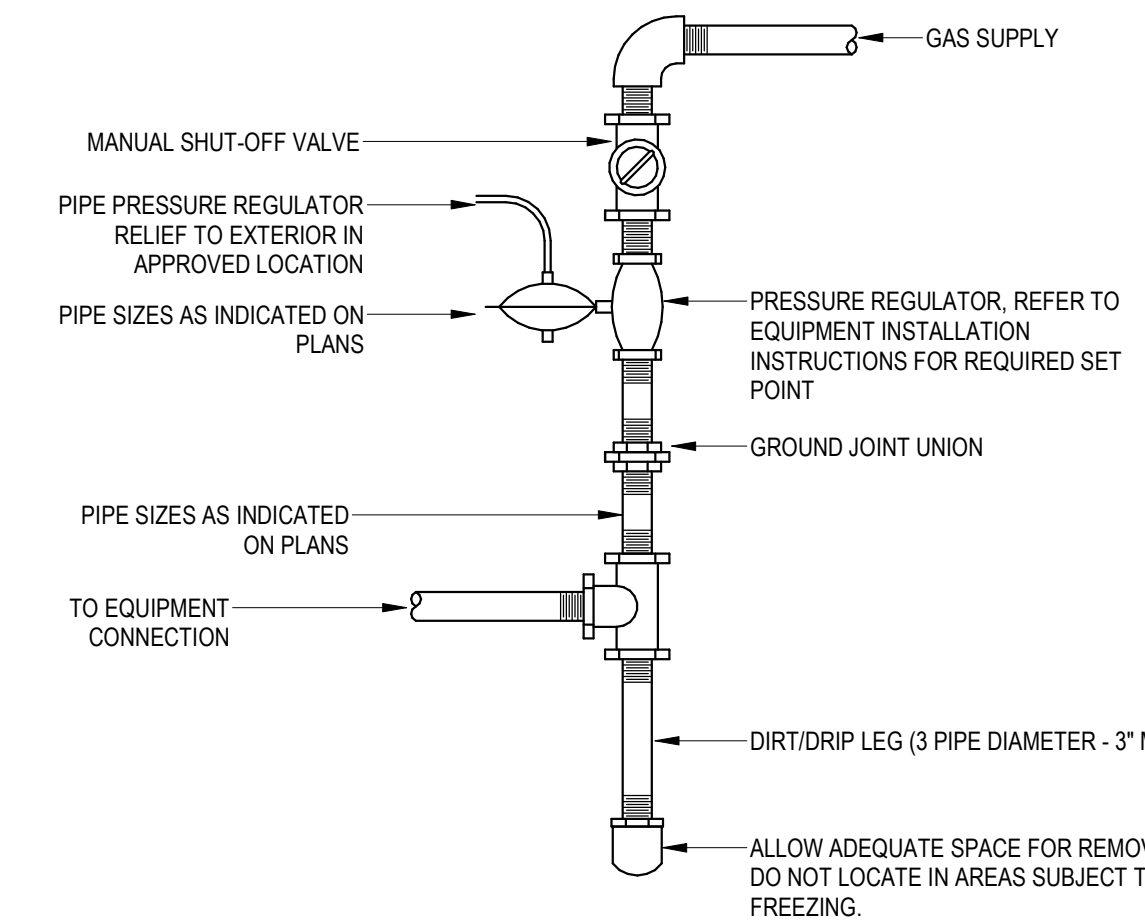
NO.	ITEM	MANUFACTURER	MODEL	REMARKS
BFP-1	BACKFLOW PREVENTER	WATTS REGULATOR	SERIES LF09	PROVIDE ON INCOMING WATER SERVICE.
BFP-2	BACKFLOW PREVENTER	WATTS REGULATOR	SERIES LFR	PROVIDE ON COFFEE, ICE, & BEVERAGE DISPENSERS
HB-1	HOSE BIBB	WATKINS	SERIES 195	1/2" SIZE W/ BFP-3
MY-1	MIXING VALVE	WATTS REGULATOR	SERIES MMV MODEL LFMM/US-M1	INSTALL ABOVE CEILING AND SET AT 110°F (UNLESS NOTED)
RH-1	ROOF HYDRANT	WOODFORD	SRH-MS	FREEZELESS (NO DRAIN LINE REQUIRED)
SOB-1	SUPPLY OUTLET BOX	PRECISION PLUMBING PRODUCTS	MM-500 MMB (METAL BOX)	SINGLE 1/2"x1/4" COMP OUTLET W/ WHA
SDB-1	SUPPLY & DRAIN BOX	PRECISION PLUMBING PRODUCTS	MM-500 MLB (METAL BOX)	DUAL 1/2" OUTLETS W/ WHA'S & 2" DRAIN (R, C, OR L)
WH-1	WALL HYDRANT	J.R. SMITH, GUARDIAN	SERIES S519	COORDINATE LOCATIONS WITH ARCH DWGS VERIFY DEPTH OF WALL AVAILABLE
TSR-1	TRAP SEAL INSERT	JOASAM	SERIES T01 8824	TRAP SEAL MAINTENANCE DEVICE

NO.	ITEM AND MANUFACTURER	LOCATION	CAPACITY	ELECTRICAL	SCCR RATING (KAIC)	REMARKS
EW1-1	ELECTRIC WATER HEATER - UPRIGHT BRADFORD WHITE RE34016	REFER TO PLANS	40 GALLON STORAGE 21 GPM RECOVERY @ 80°F RISE	4.5 KW INPUT 208/160	N/A	
EW1-2	ELECTRIC WATER HEATER - UPRIGHT BRADFORD WHITE RE25010	REFER TO PLANS	50 GALLON STORAGE 23 GPM RECOVERY @ 80°F RISE	4.5 KW INPUT 208/160	N/A	
EW1-3	ELECTRIC WATER HEATER - UPRIGHT BRADFORD WHITE LE28013-3	AMENITY MEP	80 GALLON STORAGE 31 GPM RECOVERY @ 80°F RISE	6.0 KW INPUT 208/160	N/A	
DWP-1	DOMESTIC WATER BOOSTER PUMP GRUNDFOS BOOSTERPAQ MPCE-4CR6 45-2-2	RETAIL LEVEL UTILITY ROOM	720 TOTAL GPM @ 85 PSI SYSTEM PRESSURE; 50 PSI PRESSURE BOOST; EA PUMP- 240 GPM @ 117.7 FEET TDH (N/A DESIGN)	(4) 15HP, 208V/360	XX	PRE-PACKAGED [QUADRIplex] UNIT WITH SINGLE POINT ELECTRICAL CONNECTION - PROVIDE 8 INCH 316SS FLANGED MANHOLES, 150# SUCTION & DISCHARGE HEADER - PROVIDE 100 GALLON ADJUNCT MOUNT HYDRO-PNEUMATIC TANK, #25PA-400 HP-150 PSI WP, ASME CODE STAMPED UNIT TO BE UL-LISTED AND CERTIFIED AS A COMPLETE SYSTEM
GRD-1	GARBAGE DISPOSAL GE GFC525	RESIDENTIAL APARTMENT & CONDO UNIT KITCHENS/INMS		1/2 HP, 120/160	N/A	PROVIDE AIR SWITCH & POWER CORD KIT, SATRN. GARBAGE DISPOSAL TO BE PROVIDED AT ALL RESIDENTIAL CONDO & APARTMENT UNIT KITCHENS
HWRP-1	DOMESTIC HOT WATER CIRCULATION PUMP BELL & OSSETT SERIES 60	RESIDENTIAL LAUNDRY CLOSETS - REFER TO PLANS	5 GPM @ 20 TDH	1/4 HP, 1750 RPM 120/160	N/A	REQUIRED IN RESIDENTIAL UNITS WHERE LONGEST RUN OF HOT WATER PIPING FROM WATER HEATER EXCEEDS 50' ALL BRONZE CONSTRUCTION PROVIDE WI AQUASTAT AQ-34 AND AUTOMATIC TIMER KIT TC-1
HWRP-2	DOMESTIC HOT WATER CIRCULATION PUMP BELL & OSSETT SERIES 480	AMENITY MEP	12 GPM @ 49 TDH	1/2 HP, 1750 RPM 120/160	N/A	ALL BRONZE CONSTRUCTION PROVIDE WI AQUASTAT AQ-34 AND AUTOMATIC TIMER KIT TC-1
SP-1	ELEVATOR SUMP PUMP ALYANEBARA EPO-SMS1	ELEVATOR SUMP PIT	50 GPM, 20 TDH	1/2 HP, 3600 RPM 120/160, 9 FLA	10	PROVIDE OIL ALERT CONTROLS AND ACCESSORIES.

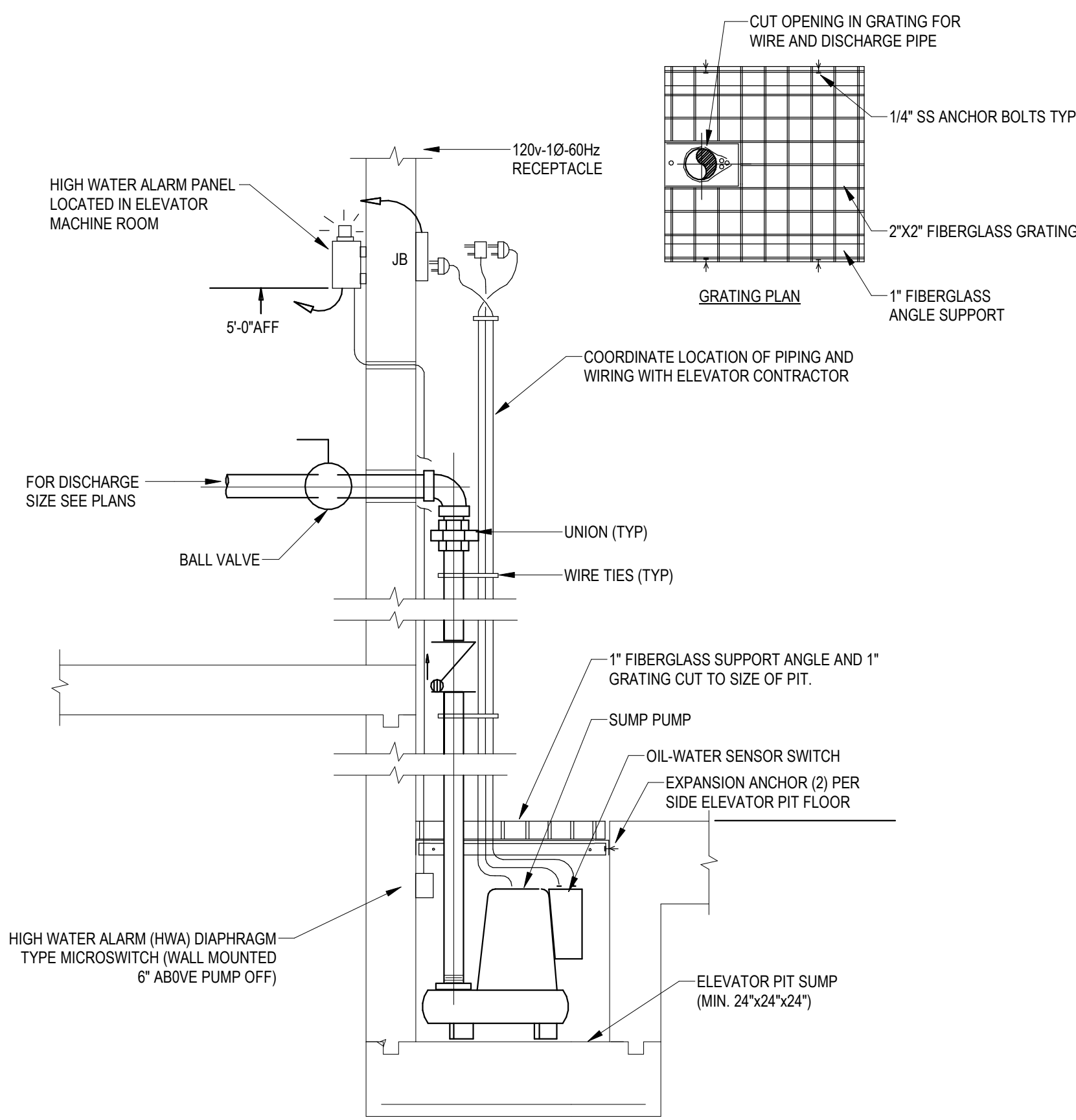
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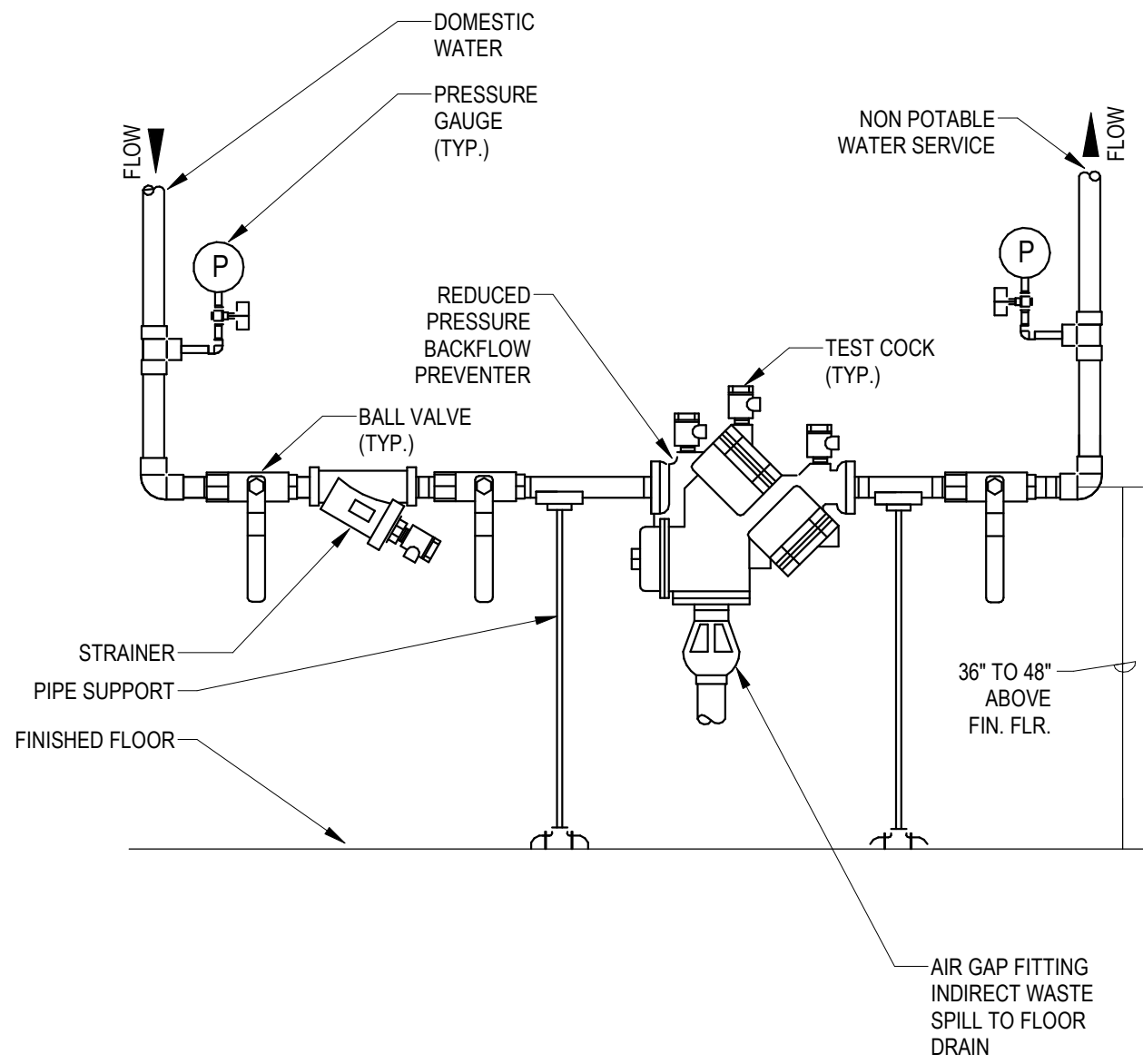
1 CONCRETE THRUST BLOCK DETAIL
P0.31 N.T.S.



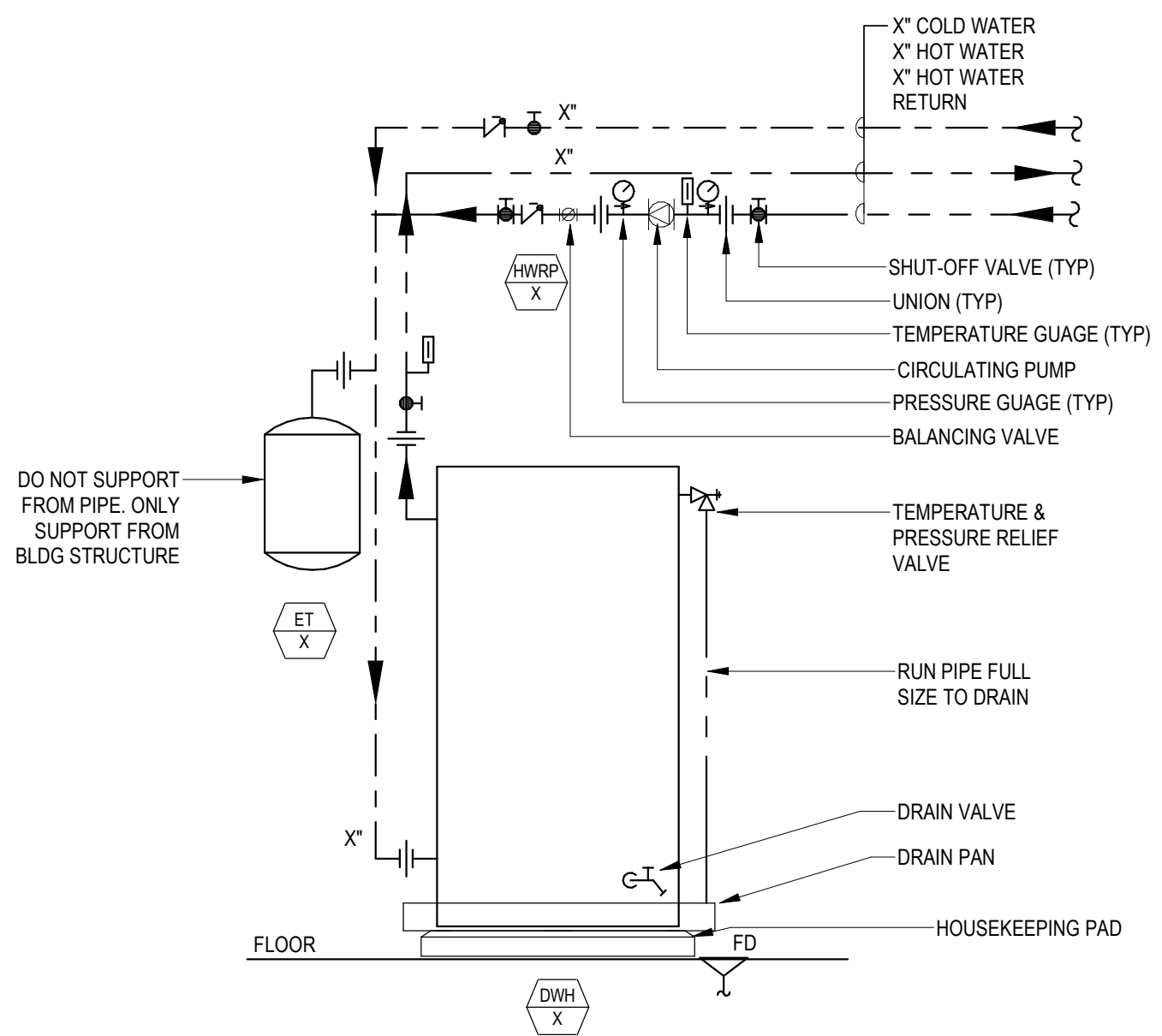
5 GAS DIRT LEG DETAIL
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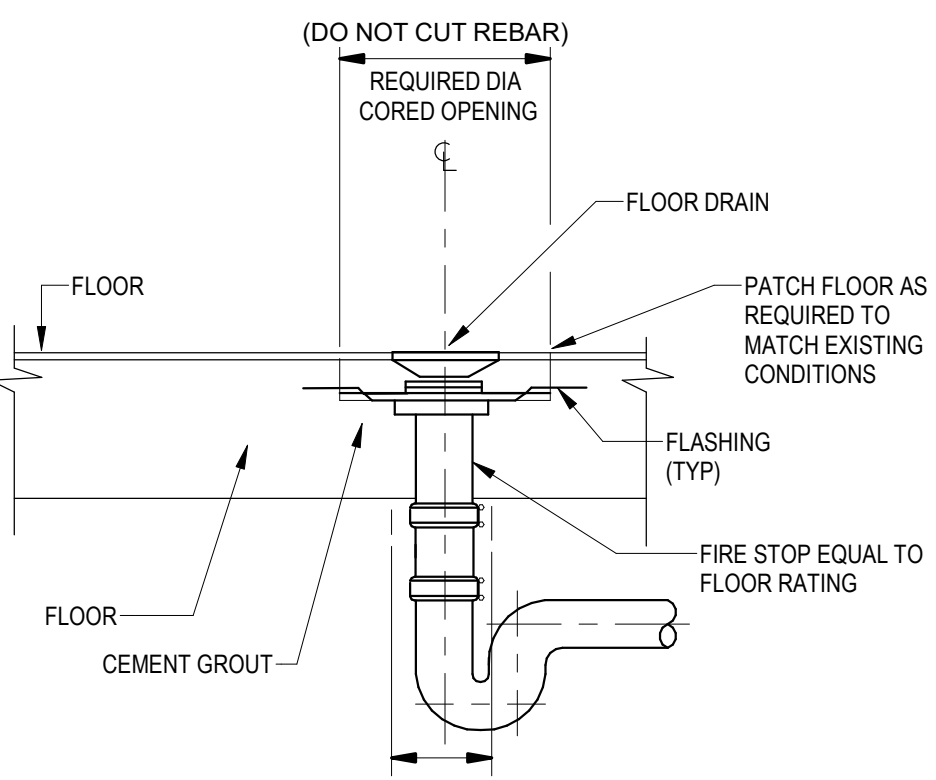
9 ELEVATOR SUMP PUMP DETAIL
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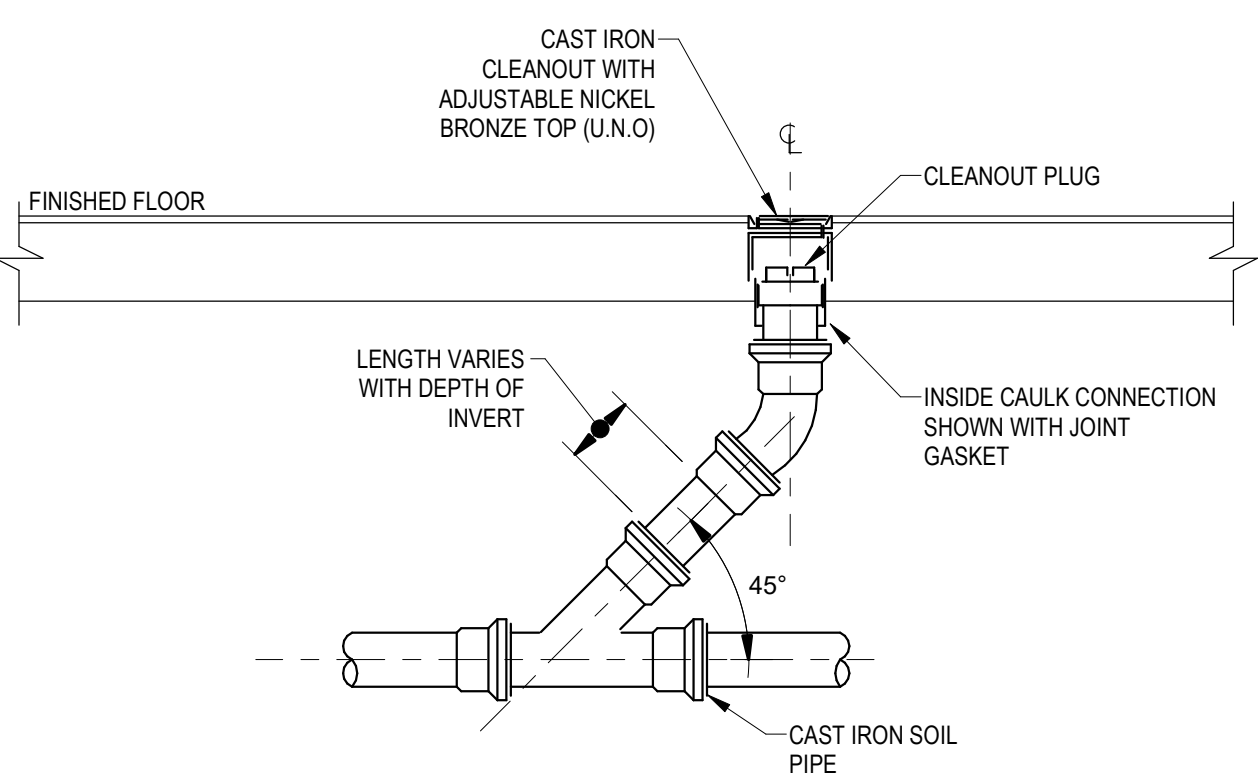
2 REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
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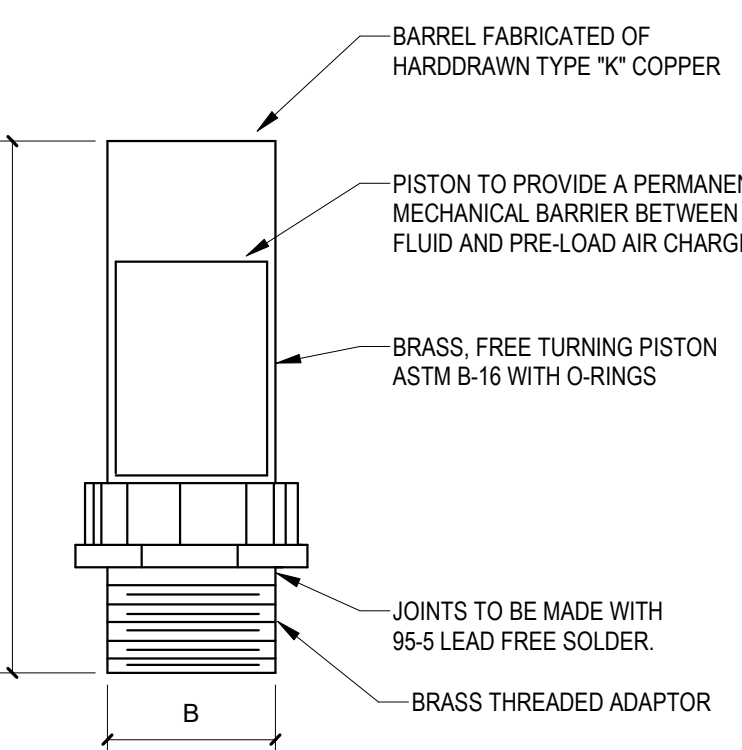
3 ELECTRIC WATER HEATER PIPING DETAIL
P0.31 N.T.S.



7 FLOOR DRAIN DETAIL
P0.31 N.T.S.



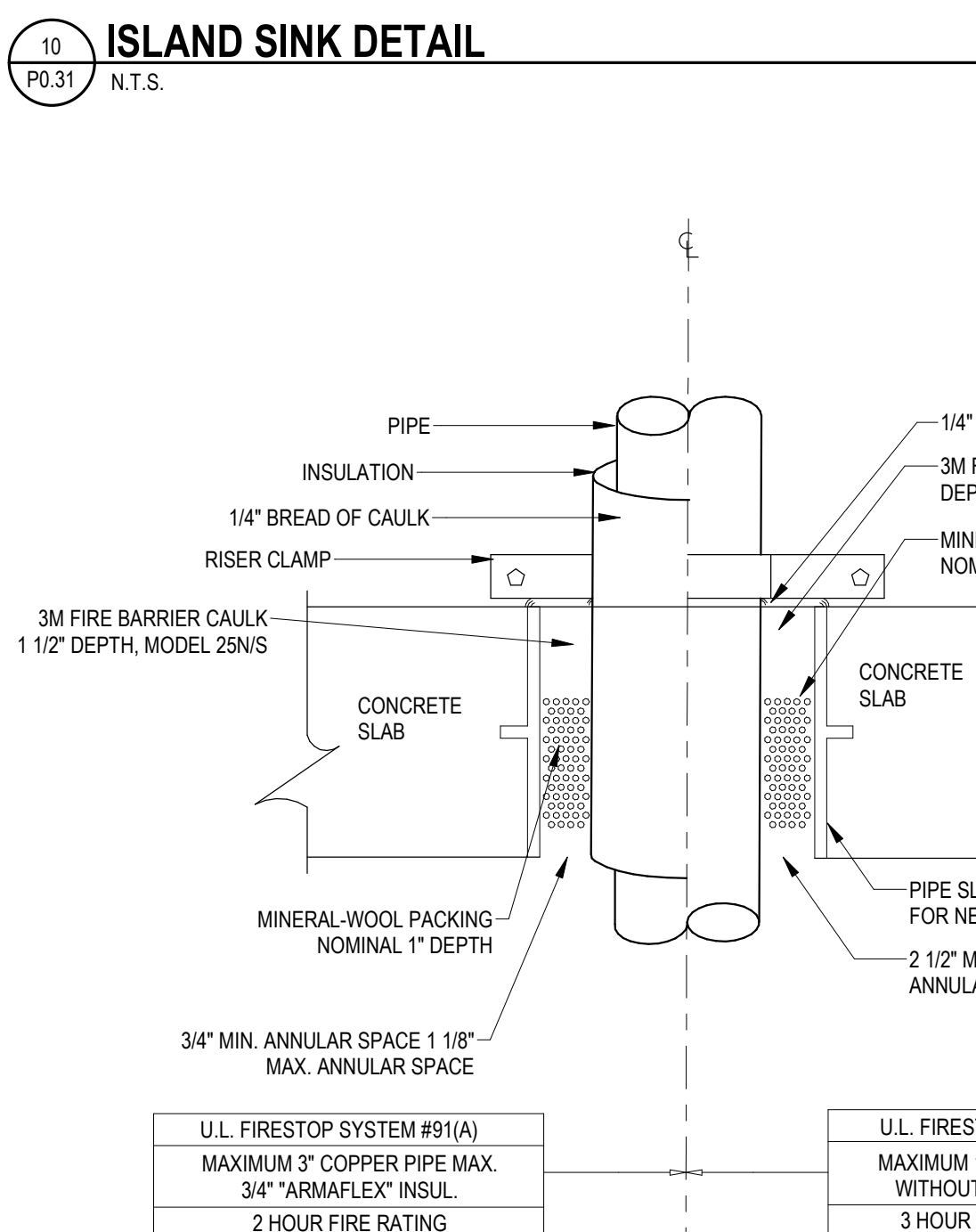
6 FLOOR CLEANOUT DETAIL
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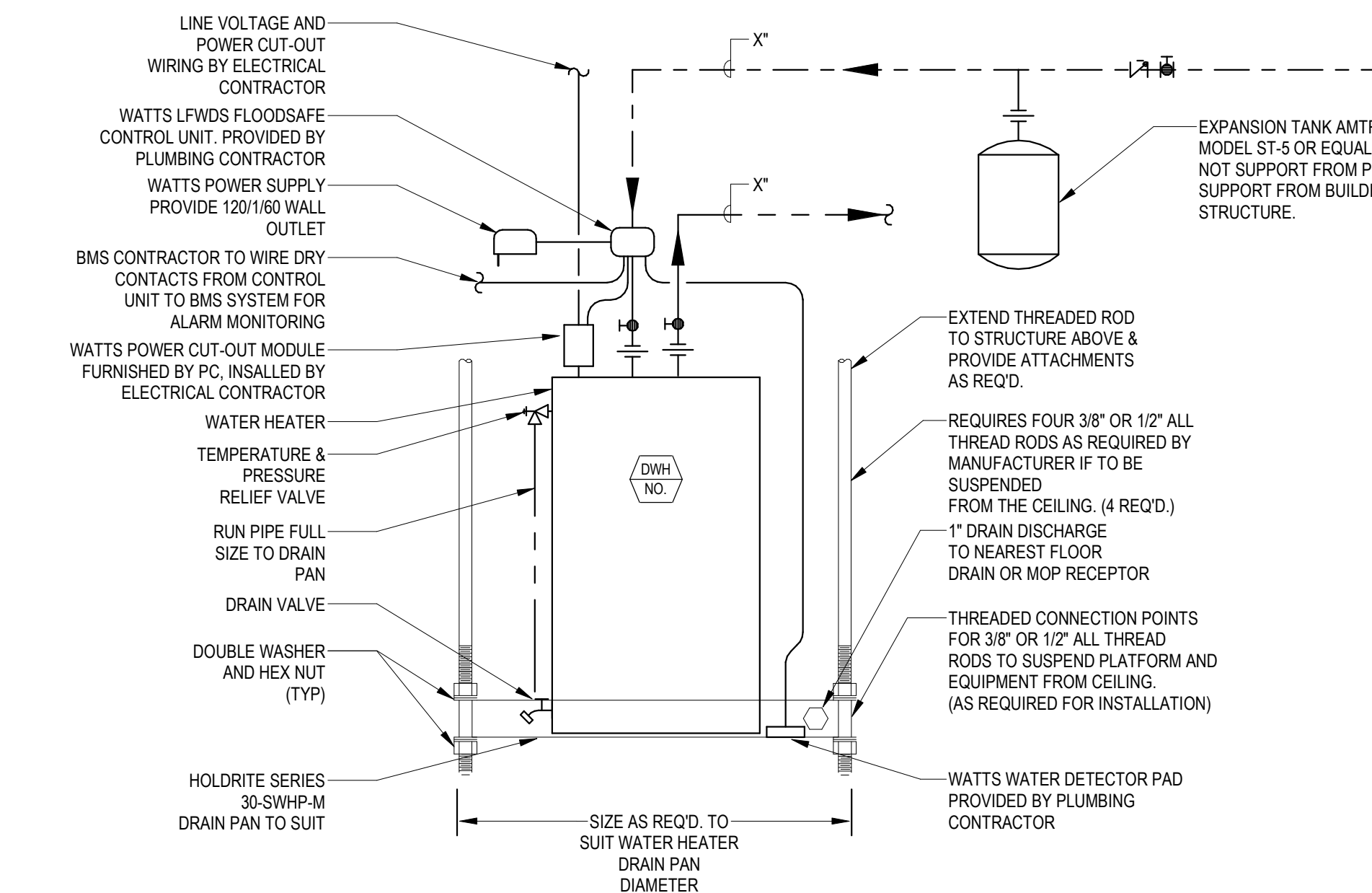
PPP SIZE	P.D.I. SYMBOL	MAX FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

NOTE:
SEE PLANS FOR LOCATIONS OF WATER HAMMER ARRESTERS. PROVIDE ACCESS PANEL.

11 WATER HAMMER ARRESTER DETAIL/SCHEDULE
P0.31 N.T.S.

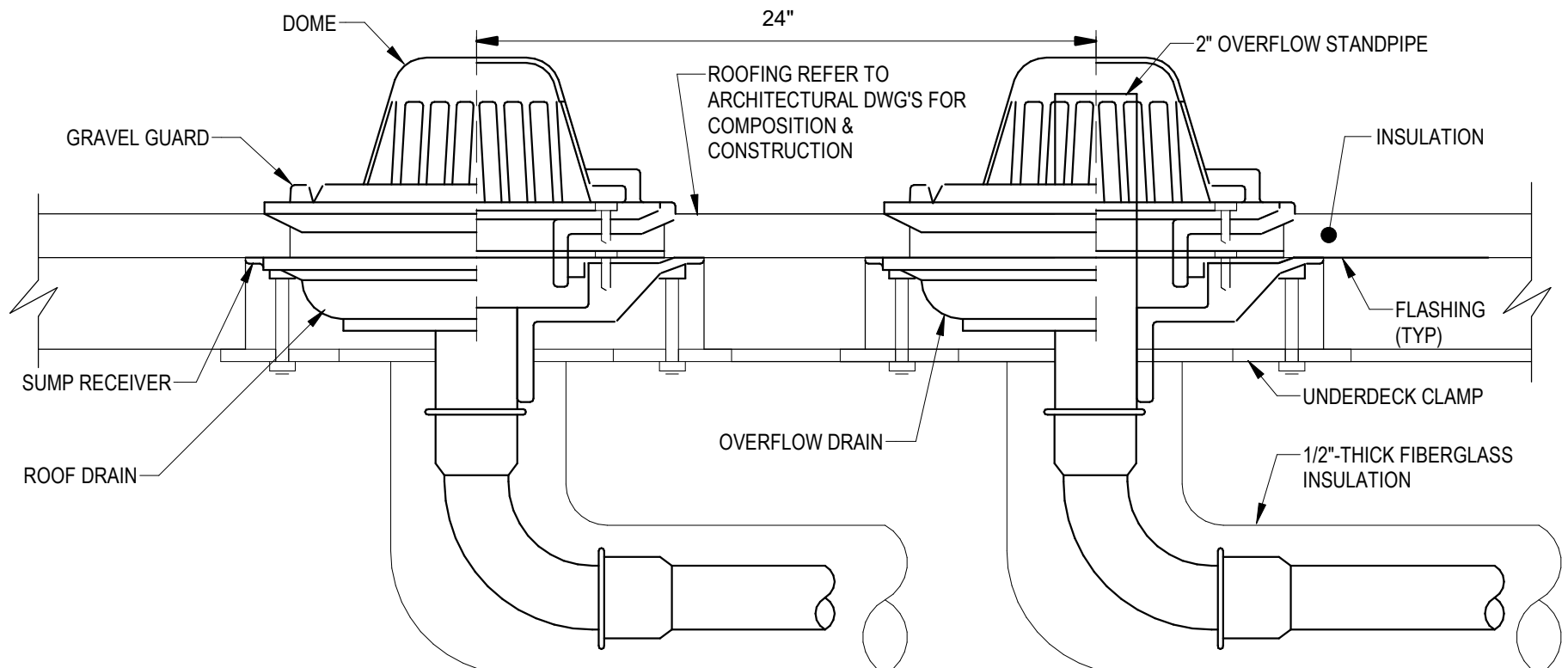


13 FIRE RATED PIPE SLEEVE DETAIL
P0.31 N.T.S.

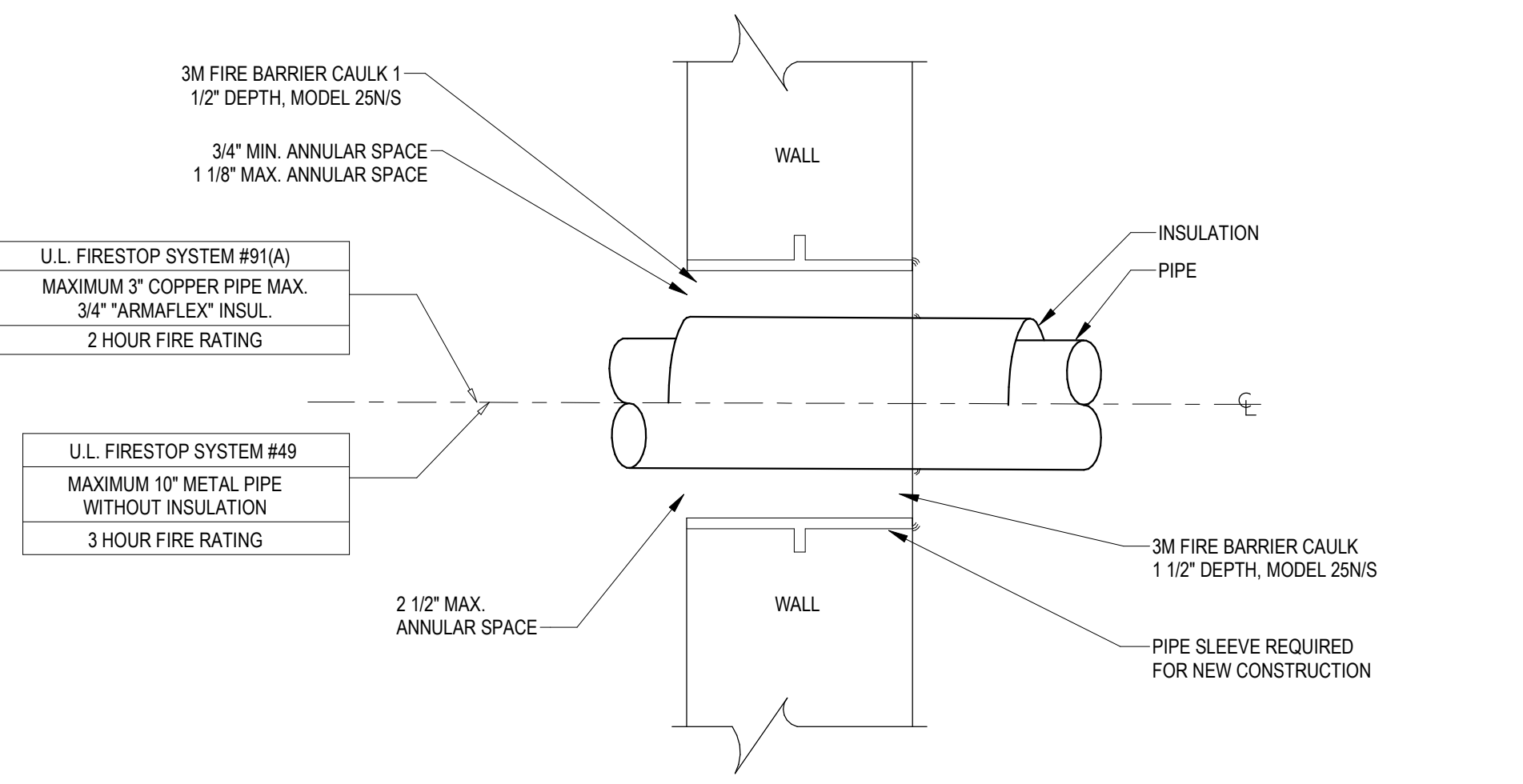


- LEAK DETECTION GENERAL NOTES:**
- LEAK DETECTION MONITORS, CONTROL DEVICES, WIRING AND ASSOCIATED APPURTENANCES TO BE FURNISHED BY THE PLUMBING CONTRACTOR
 - PLUMBING CONTRACTOR SHALL FURNISH AND COMPLETE SYSTEM COMPONENTS AND INSTALL THE CONTROL UNIT AND WATER DETECTOR PAD INCLUDING ALL INTERCONNECTING CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL INSTALL POWER SUPPLY AND POWER CUTOFF MODULE AND ALL ASSOCIATED POWER WIRING. BMS CONTRACTOR SHALL PROVIDE SYSTEM MONITORING WIRING FROM THE CONTROL MODULES CONTACTS TO THE BMS SYSTEM.
 - IN AREAS WITH WATER HEATERS LOCATED WITHIN CEILING RETURN AIR PLENUMS, ELECTRICAL CONTRACTOR SHALL LOCATE RECEPTACLE AND POWER SUPPLY OUTSIDE OF PLENUM. ELECTRICAL CONTRACTOR SHALL WRAP/PROTECT ALL EXPOSED WIRING WITHIN PLENUM WITH FIRE WRAP AS REQUIRED.

4 WATER HEATER DETAIL (HANGING SINGLE PHASE)
P0.31 N.T.S.



8 PRIMARY ROOF DRAIN AND INDEPENDENT OVERFLOW DRAIN DETAIL
P0.31 N.T.S.



12 FIRE RATED HORIZONTAL PIPE SLEEVE DETAIL
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PROJECT NO: 1022747

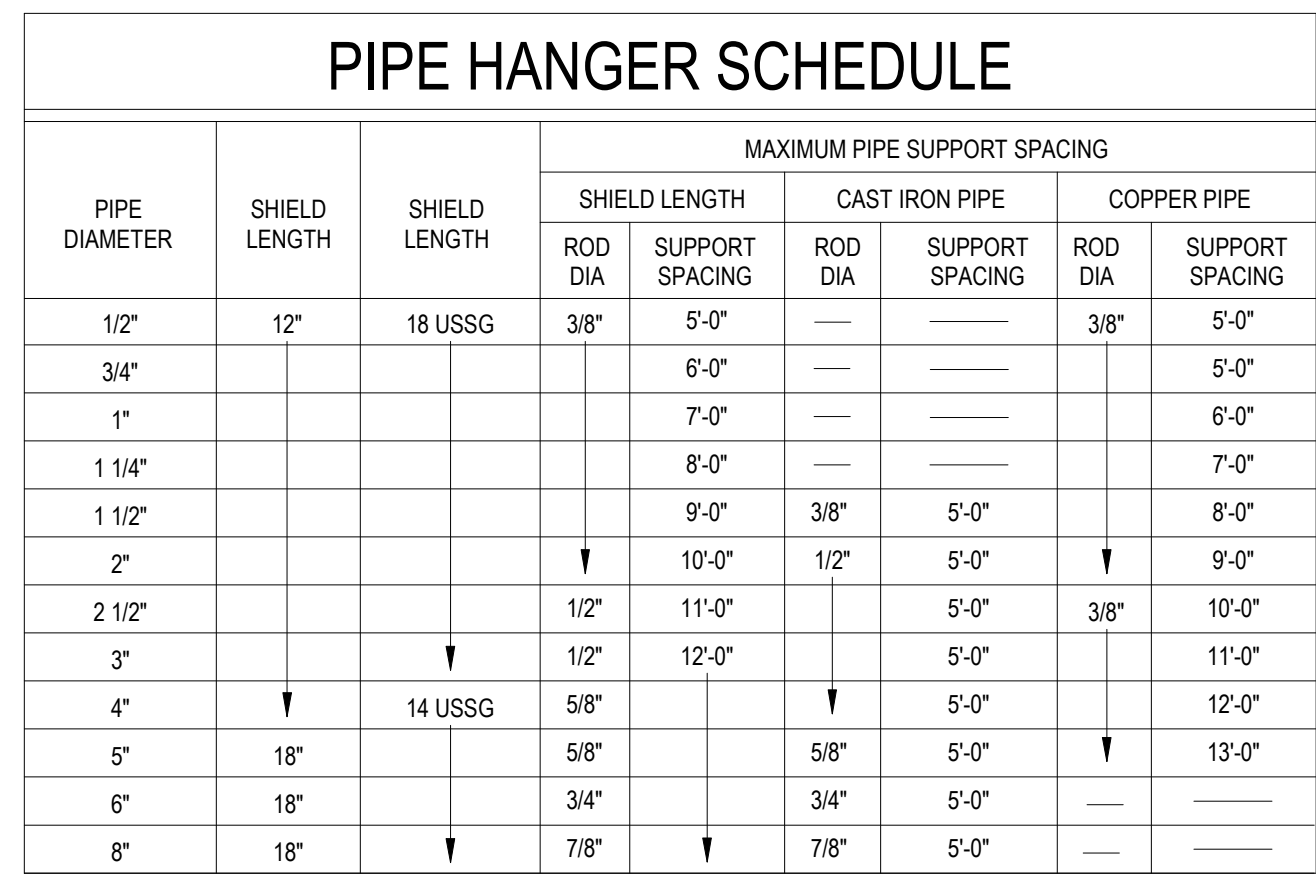
NO.	REVISION	DATE
1	ISSUE FOR PERMIT SET	11/11/2022
2	ISSUE FOR BUDGET PRICING SET	12/20/2022
3	ISSUE FOR PERMIT SET	
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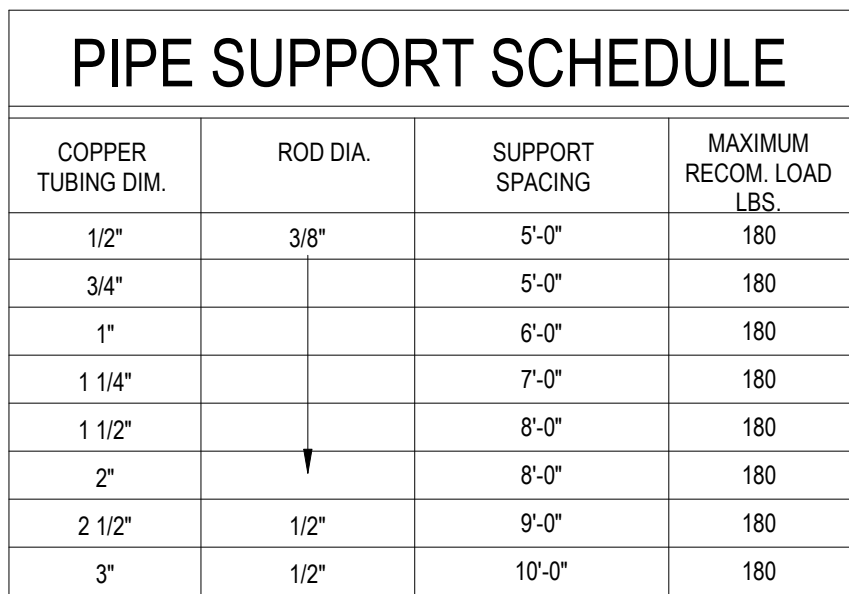
PLUMBING DETAILS
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 10/05/22

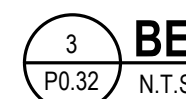
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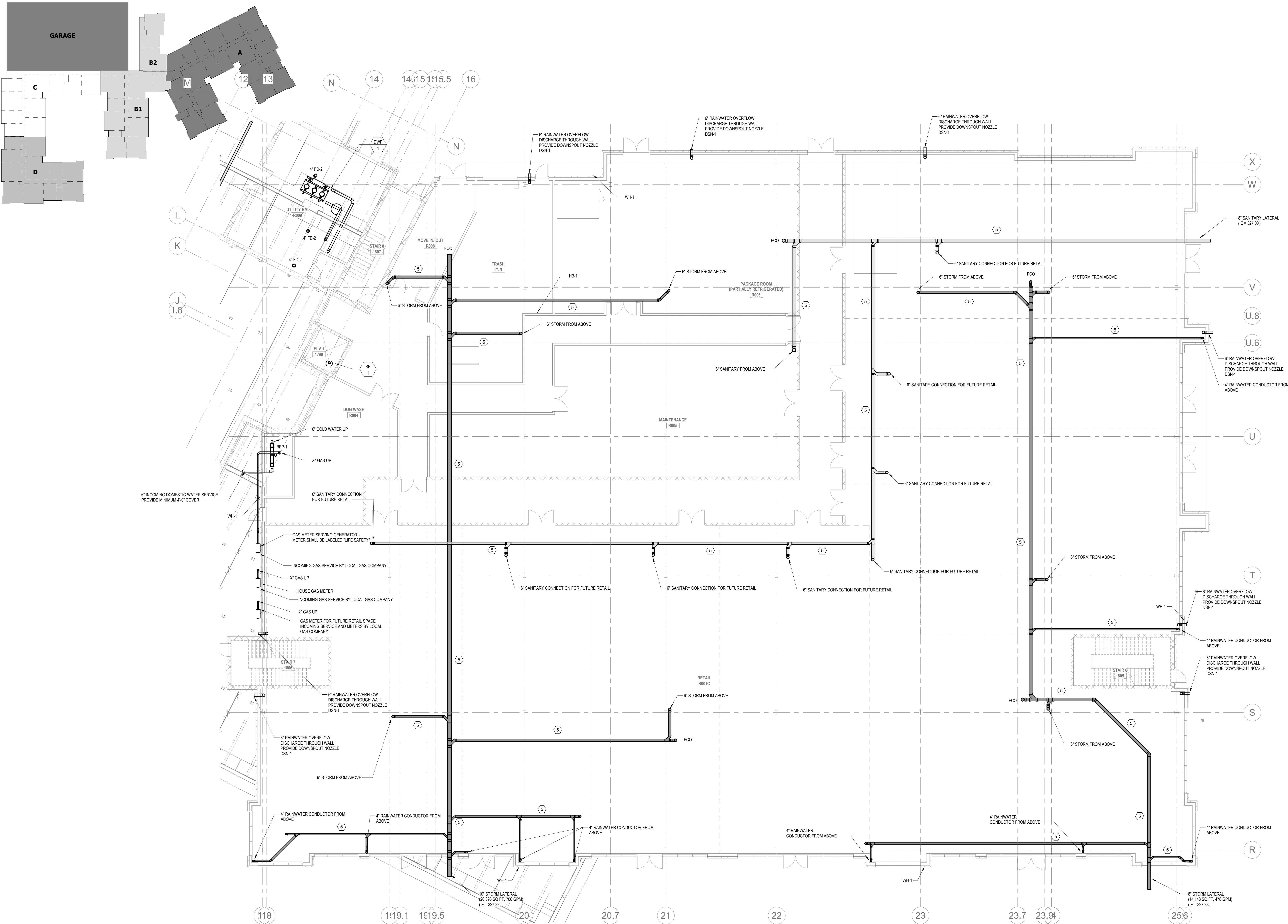


1 CLE
P0.32 N.T.S.



2
P0.32





1 PLUMBING - RETAIL LEVEL PLAN A
P2.01A 1/8" = 1'-0"

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1	SCHEMATIC BUDGET PRICING SET	12/01/2022
1	PERMIT SET	12/20/2022

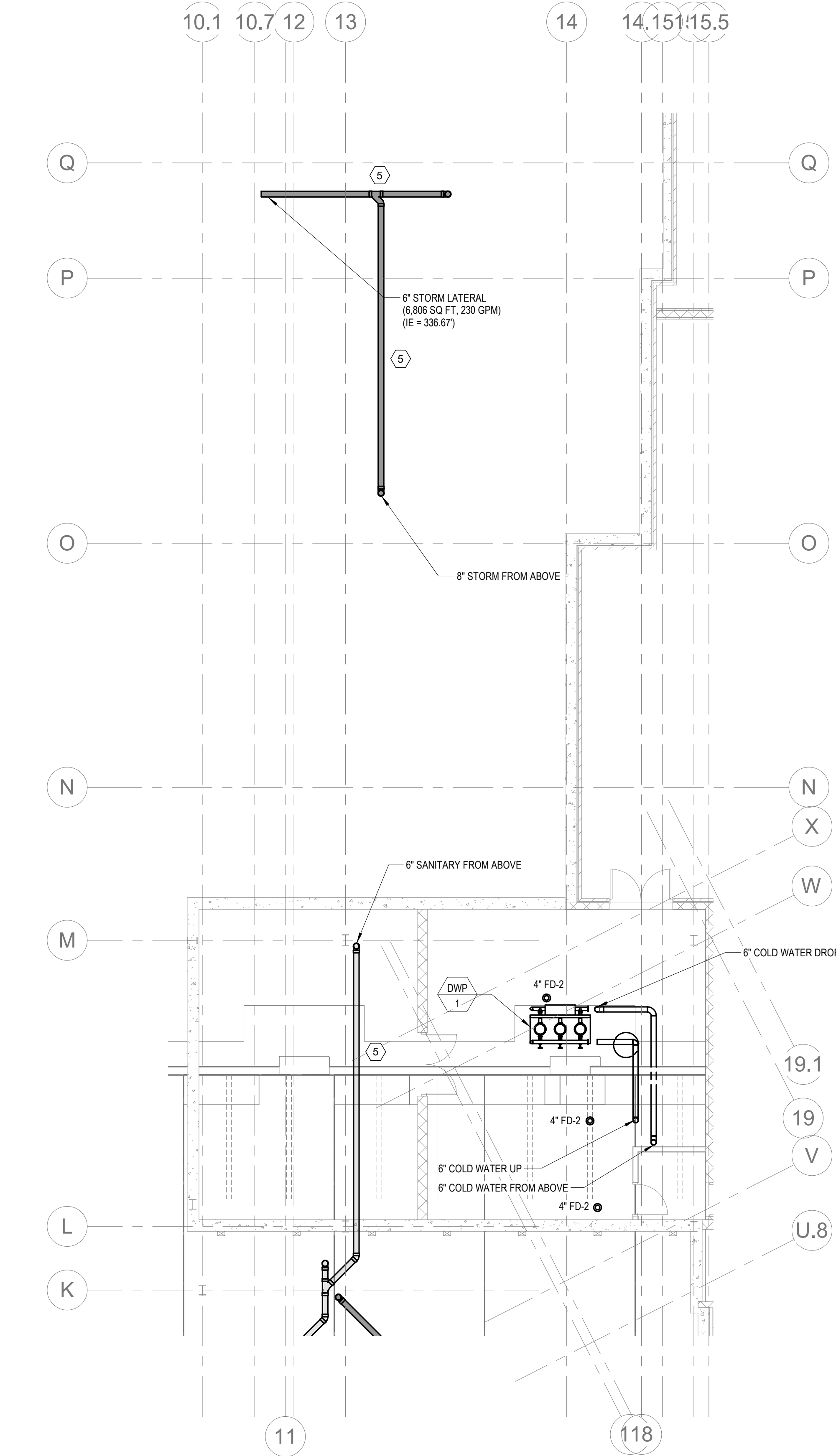
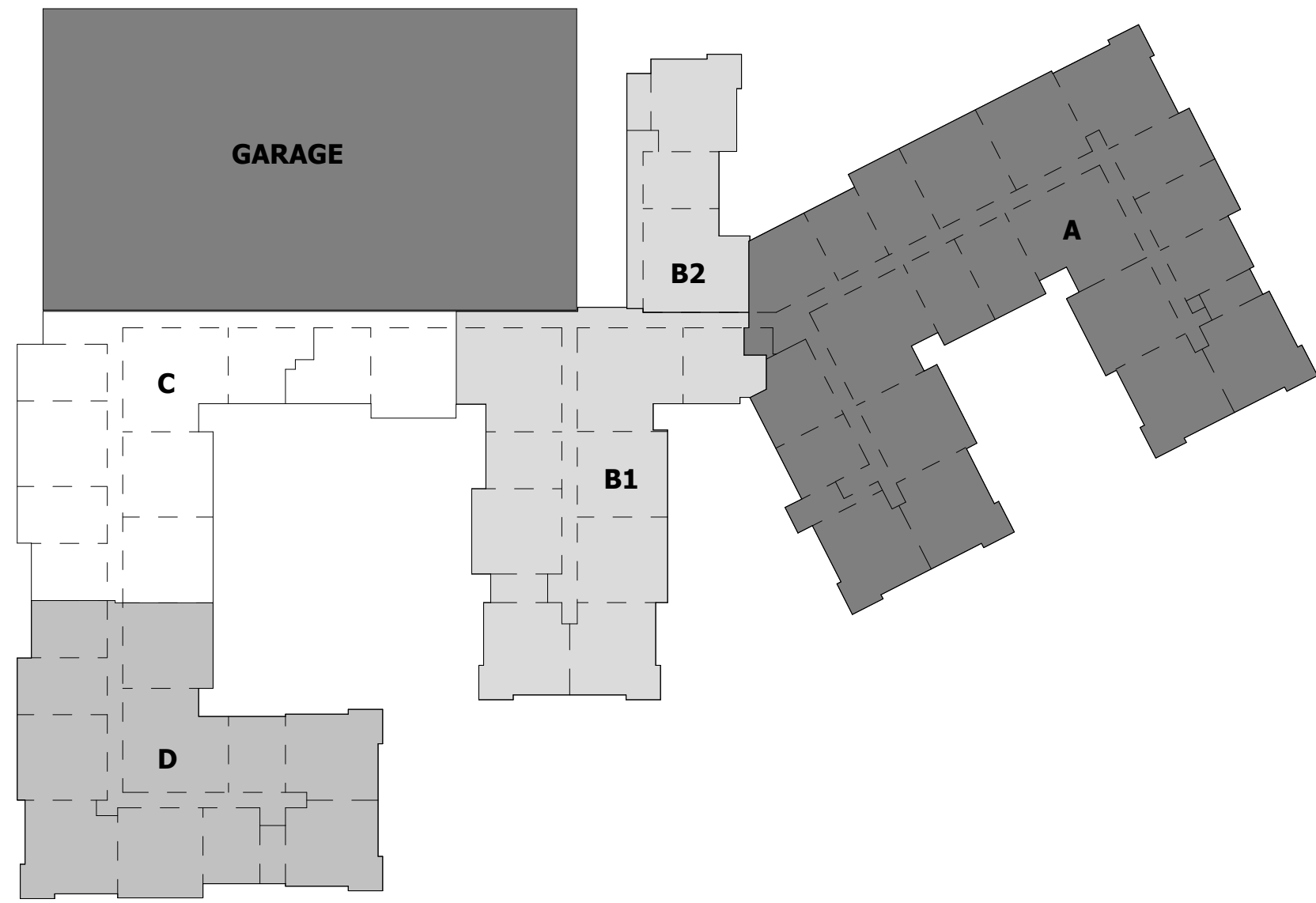
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PLUMBING - RETAIL LEVEL PLAN A
Granite Run Apartments

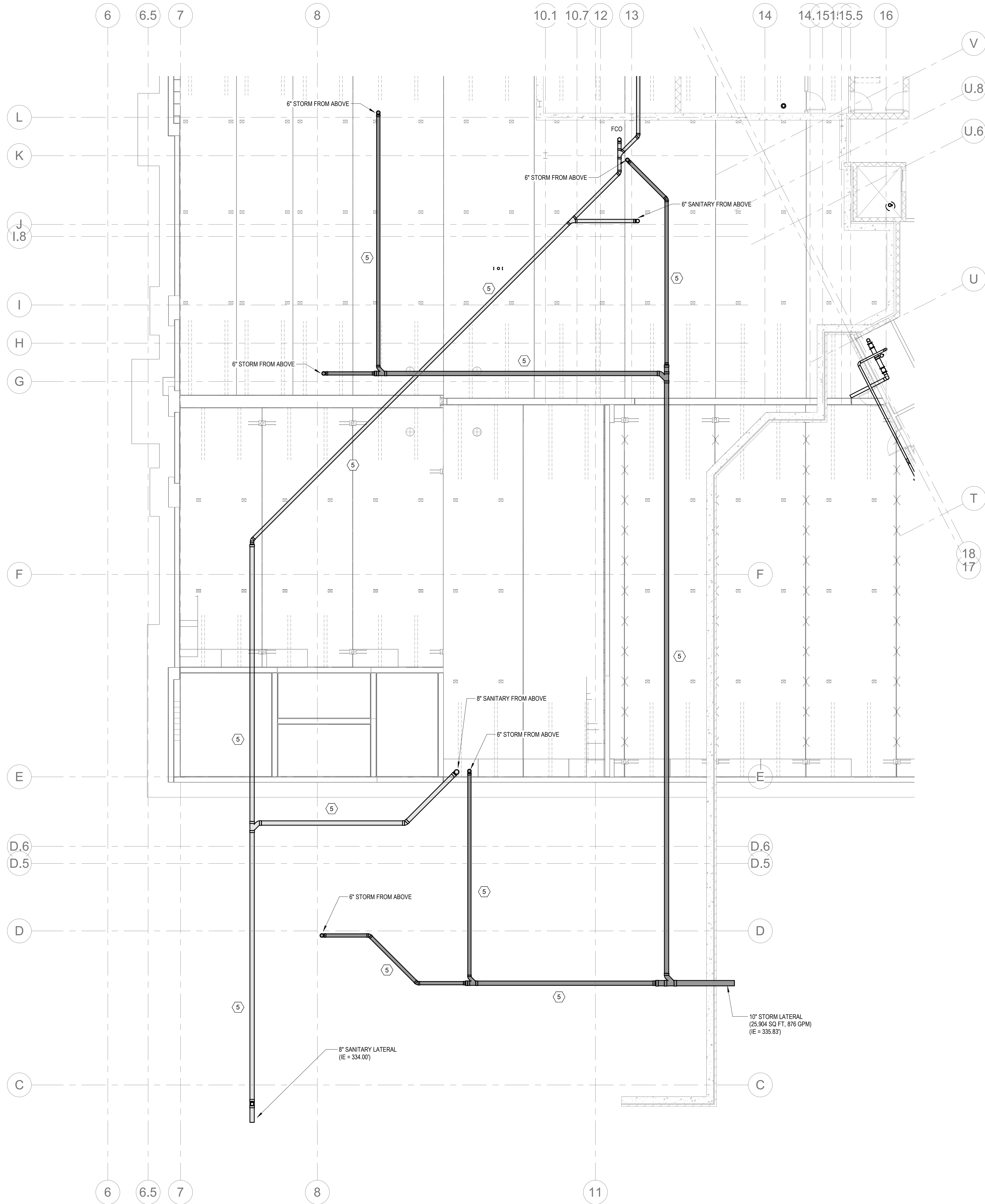
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3
P2.01B
PLUMBING - RETAIL LEVEL PLAN B2
1/8" = 1'-0"



4
P2.01B
PLUMBING - RETAIL LEVEL PLAN B1
1/8" = 1'-0"

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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET PERMIT SET	11/01/2022 12/20/2022

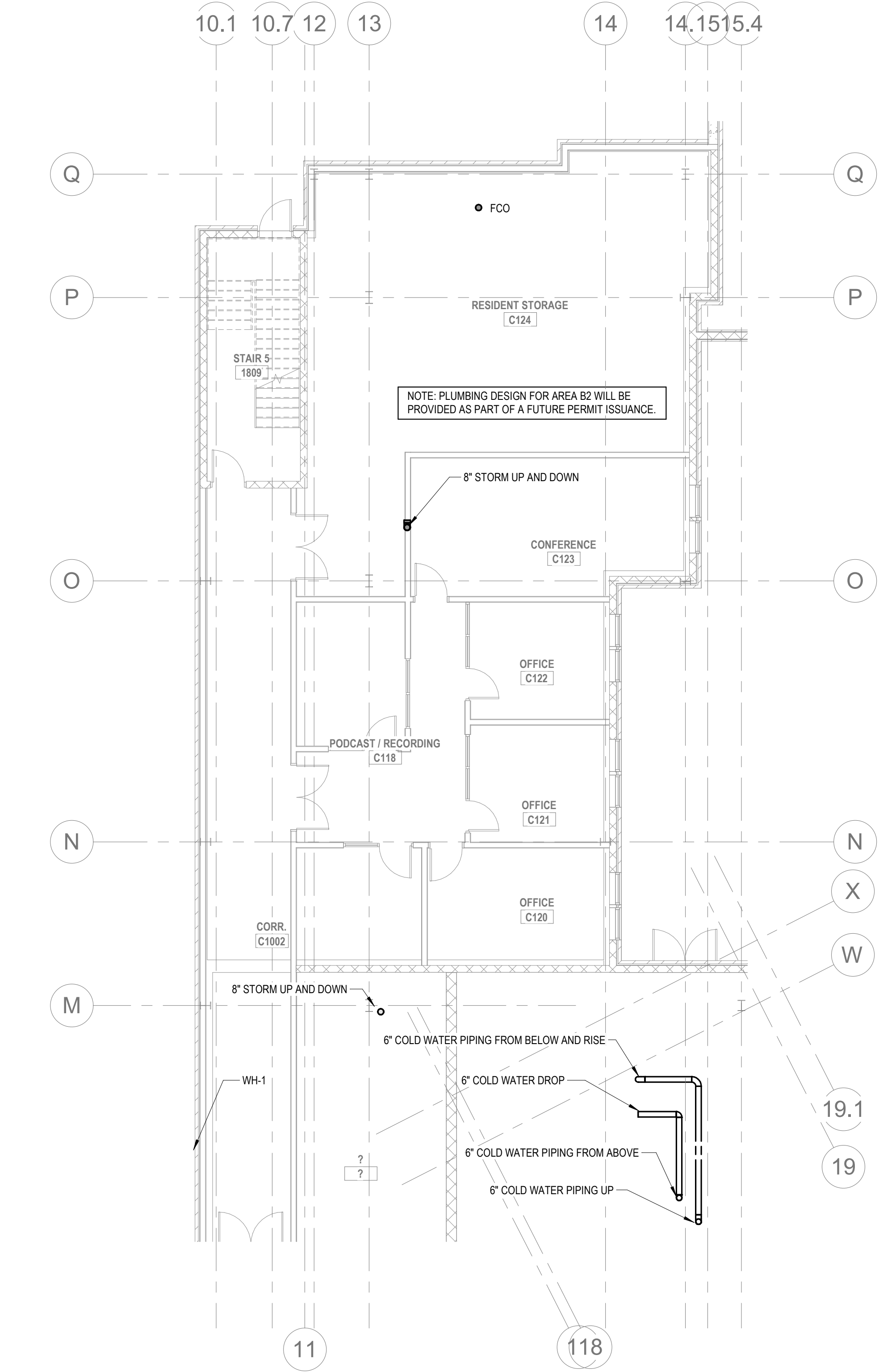
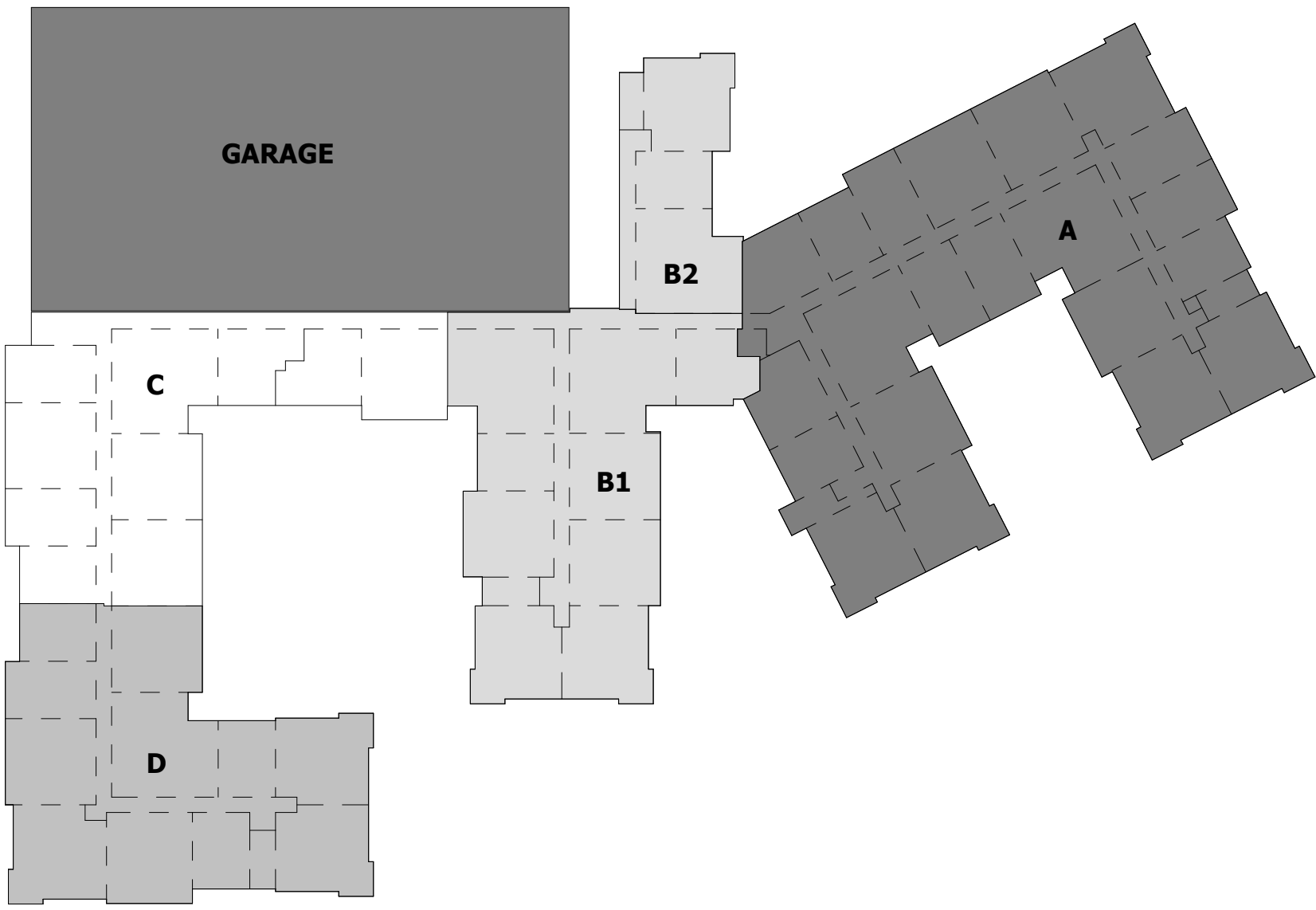
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PLUMBING - RETAIL LEVEL PLAN B
Granite Run Apartments

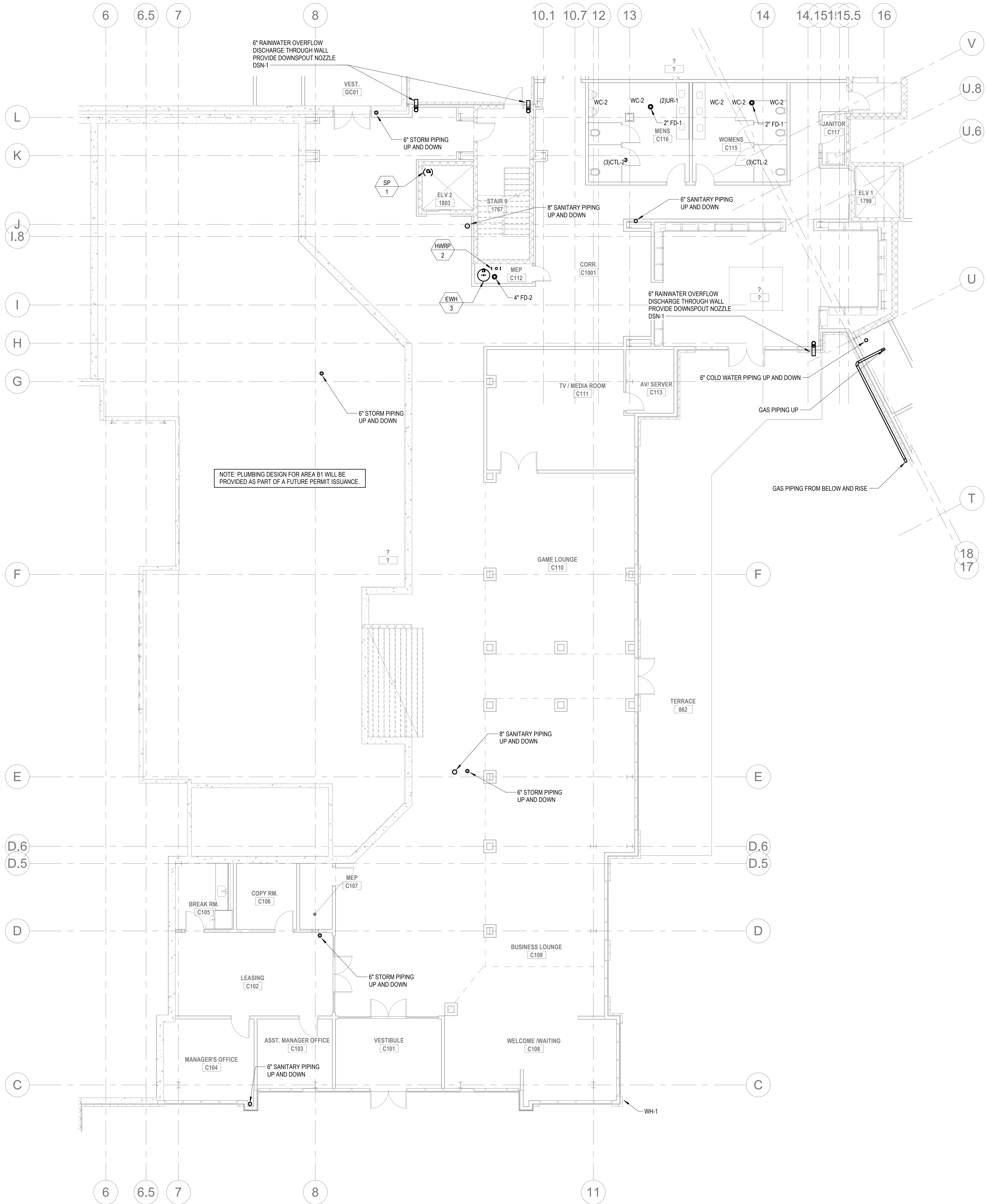
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3 PLUMBING - CLUB LEVEL 1 PLAN B2
P2.02B 1/8" = 1'-0"



4 PLUMBING - CLUB LEVEL 1 PLAN B1
P2.02B 1/8" = 1'-0"

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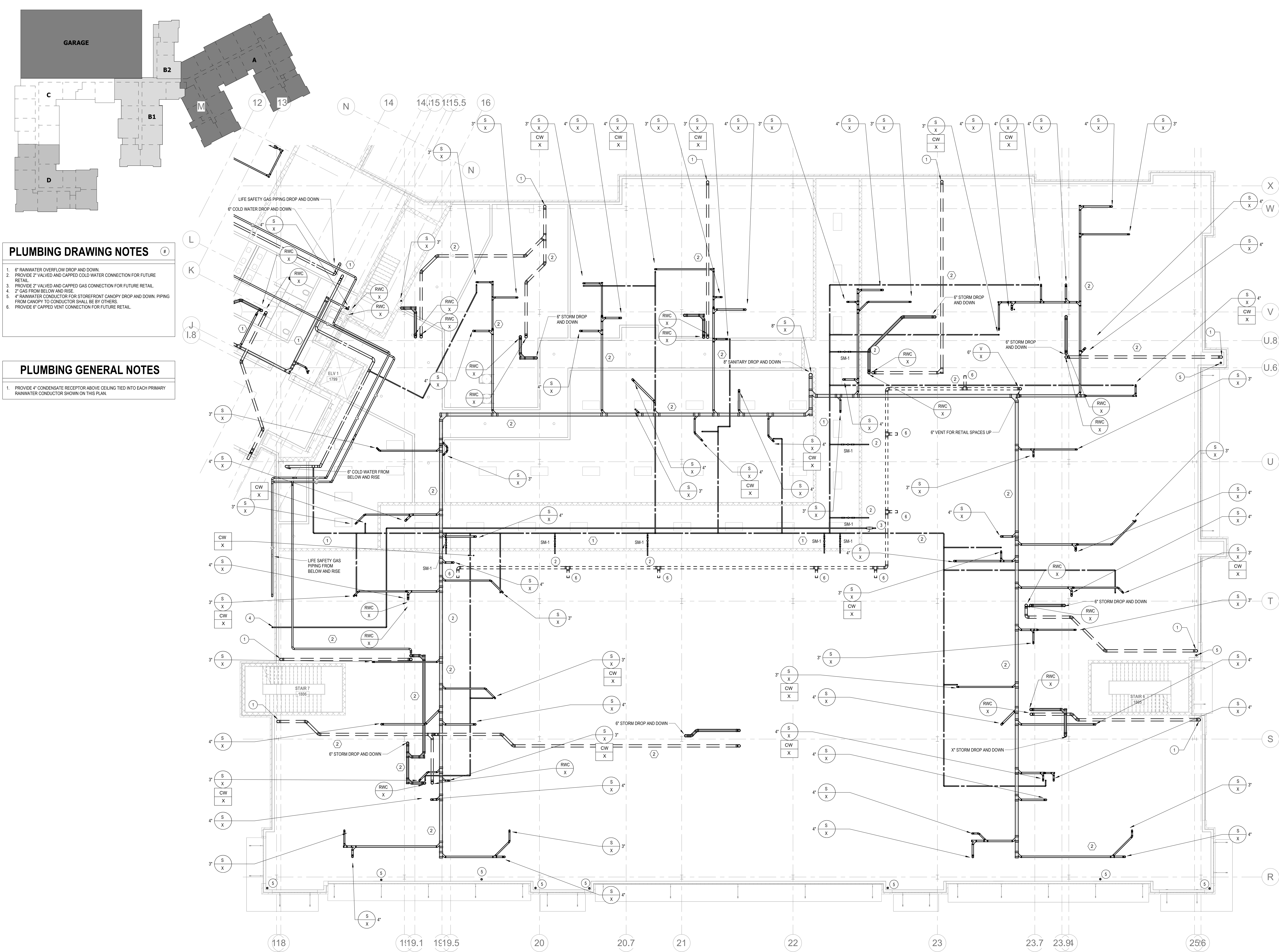
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1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

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PLUMBING - CLUB LEVEL 1 PLAN B
Granite Run Apartments

SCALE: AS INDICATED
DATE: 09/21/22

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PLUMBING DRAWING NOTES

1. 6" RAINWATER OVERFLOW DROP AND DOWN.
2. PROVIDE 2" VALVED AND CAPPED COLD WATER CONNECTION FOR FUTURE RETAIL.
3. PROVIDE 2" VALVED AND CAPPED GAS CONNECTION FOR FUTURE RETAIL.
4. 2" GAS FROM BELOW AND RISE.
5. 4" RAINWATER CONDUCTOR FOR STOREFRONT CANOPY DROP AND DOWN. PIPING FROM CANOPY TO CONDUCTOR SHALL BE BY OTHERS.
6. PROVIDE 6" CAPPED VENT CONNECTION FOR FUTURE RETAIL.

PLUMBING GENERAL NOTES

1. PROVIDE 4" CONDENSATE RECEPTOR ABOVE CEILING TIED INTO EACH PRIMARY RAINWATER CONDUCTOR SHOWN ON THIS PLAN.

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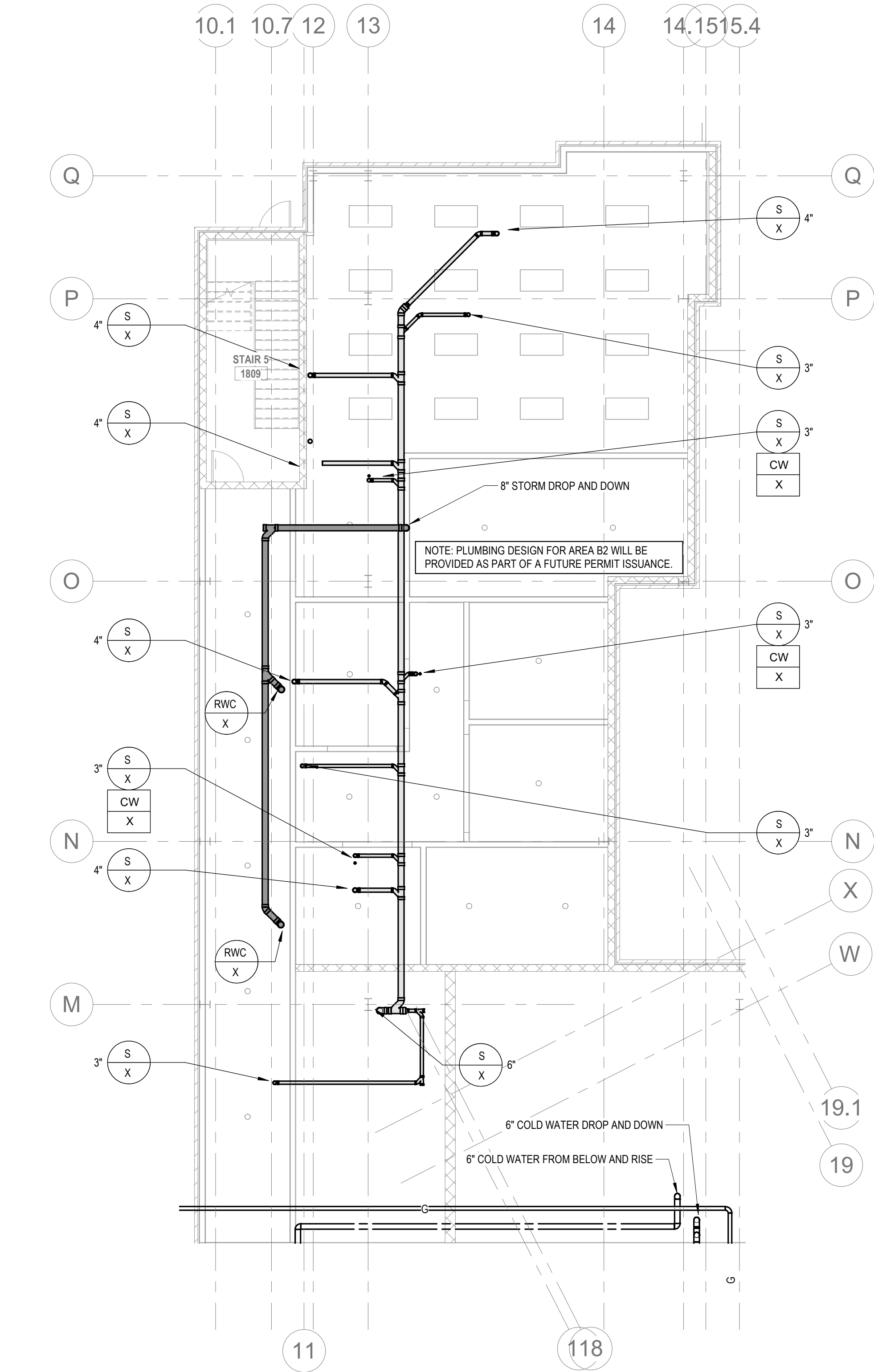
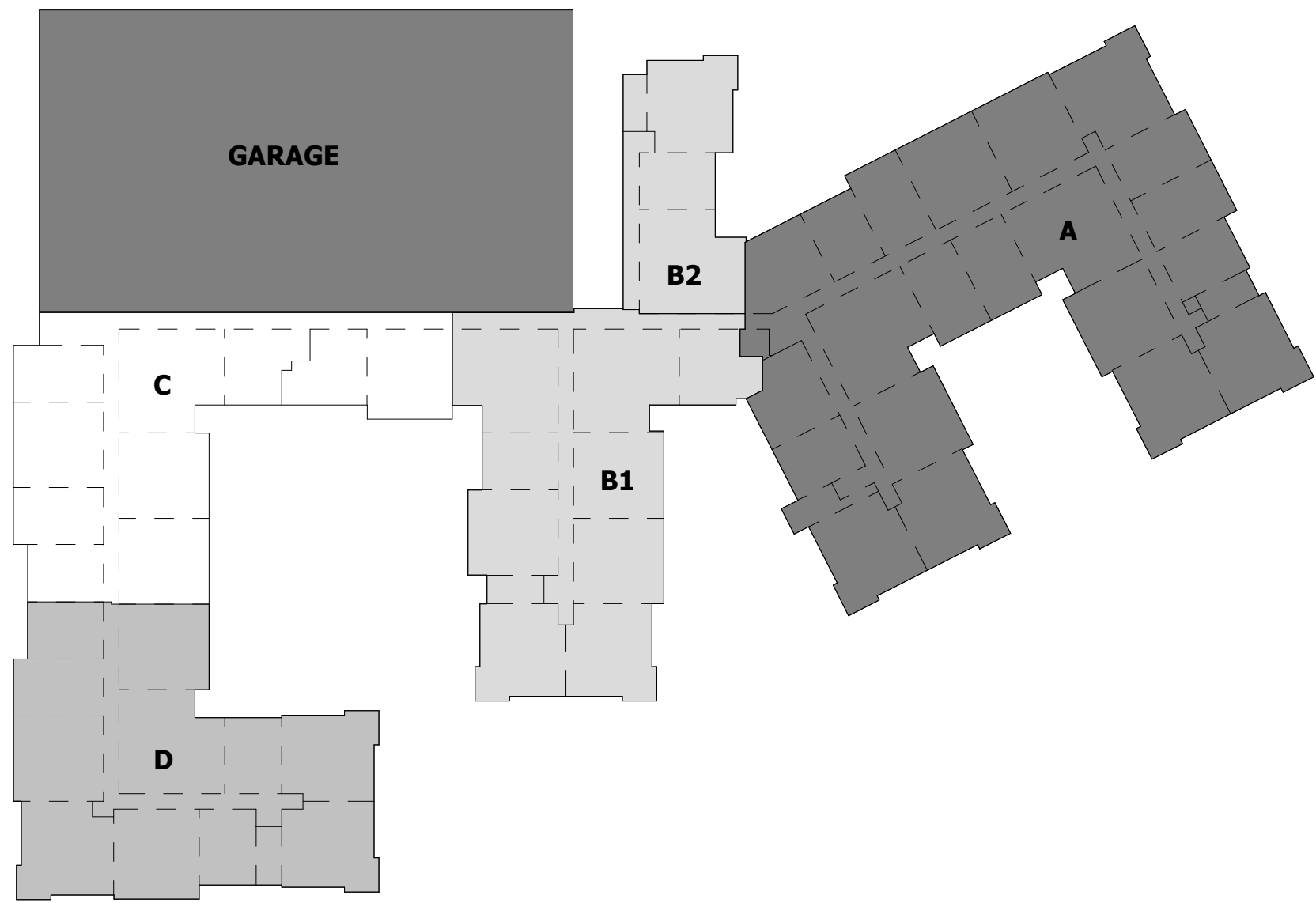
NO.	REVISION	DATE
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2	SEPARATE BUDGET PRICING SET	12/20/2022

Project Status

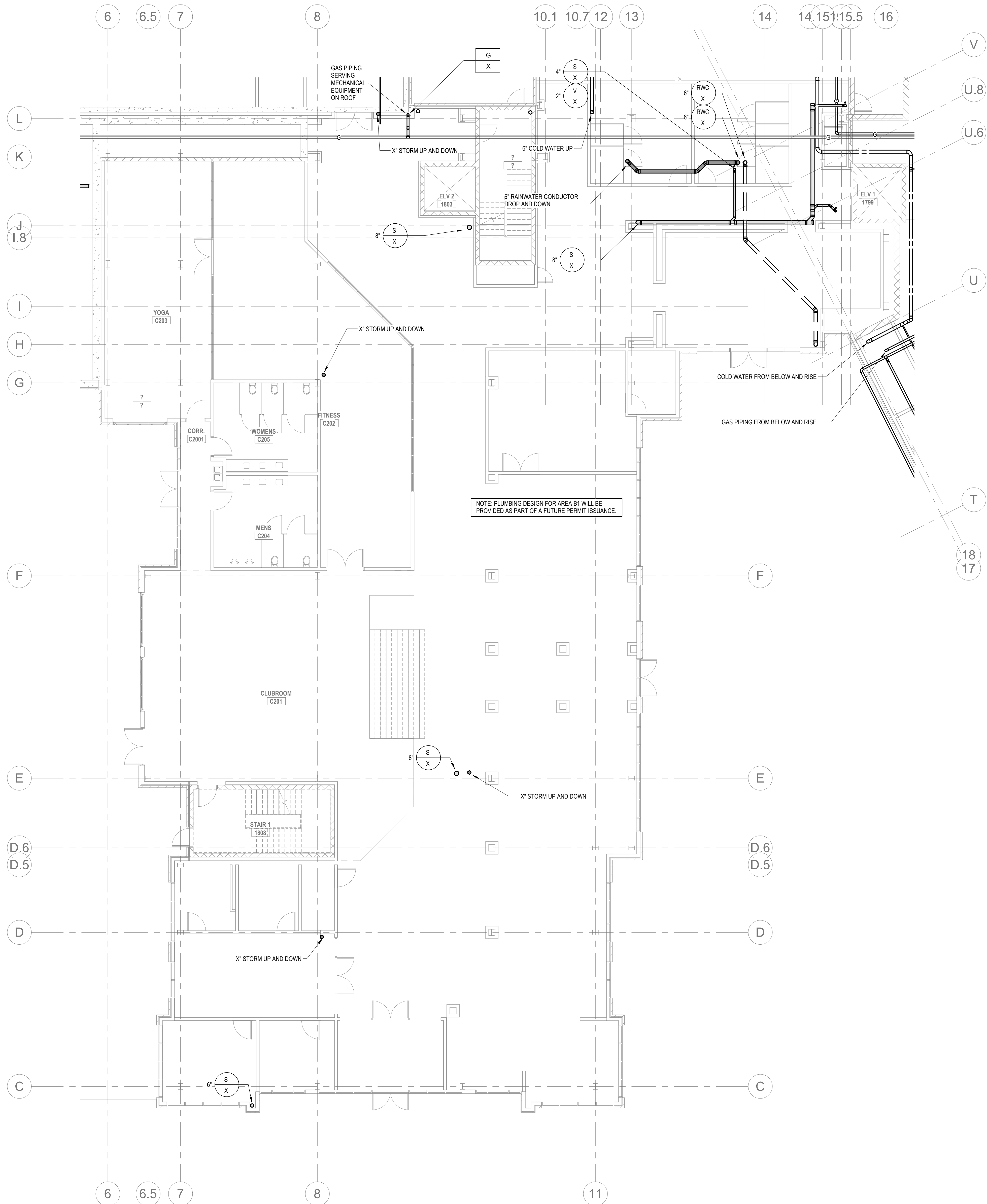
PLUMBING - CLUB LEVEL 2 PLAN A
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 08/19/22

P2.03A
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3 PLUMBING - CLUB LEVEL 2 PLAN B2
P2.03B 1/8" = 1'-0"



4 PLUMBING - CLUB LEVEL 2 PLAN B1
P2.03B 1/8" = 1'-0"

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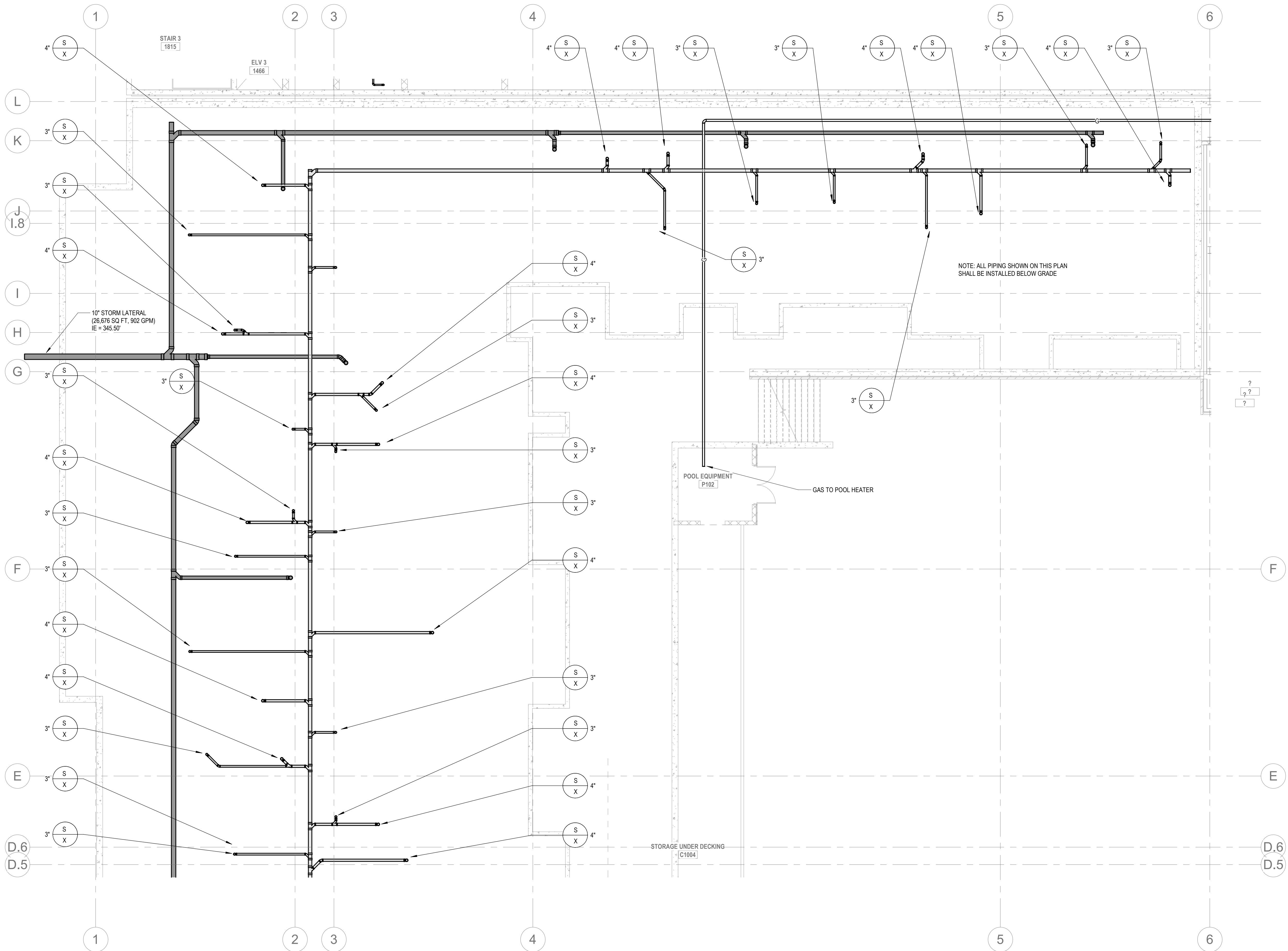
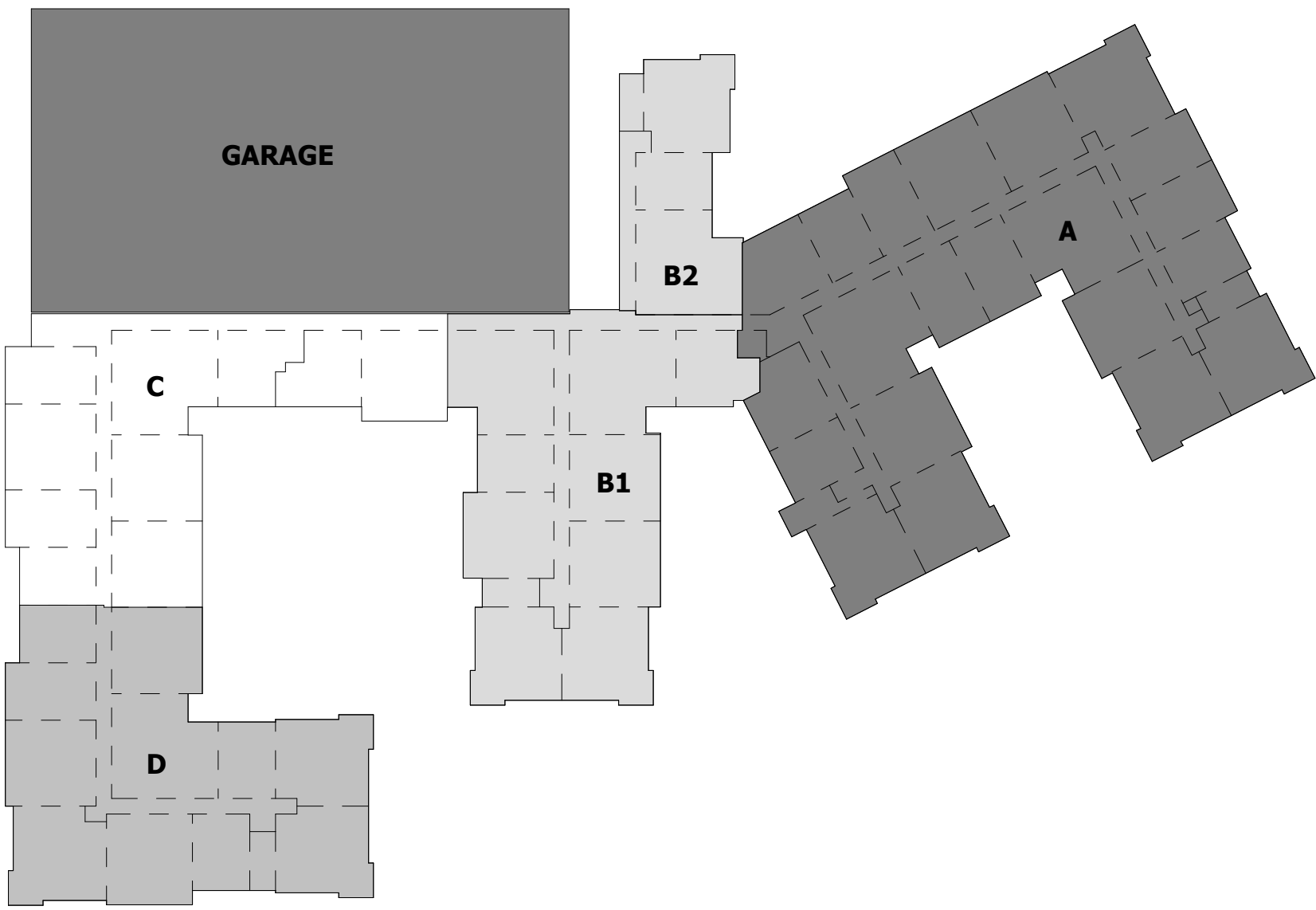
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET 1 PERMIT SET	11/01/2022 12/20/2022

Project Status

PLUMBING - CLUB LEVEL 2 PLAN B
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 09/21/22

P2.03B
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2 PLUMBING - CLUB LEVEL 2 PLAN C
P2.03C 1/8" = 1'-0"

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PROJECT NO: 1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

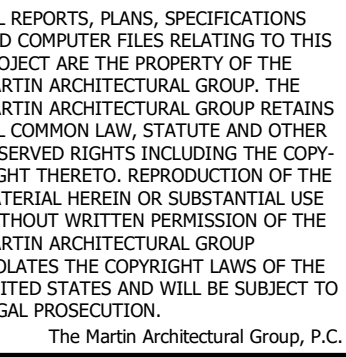
PLUMBING - CLUB LEVEL 2 PLAN C
Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 09/21/22

P2.03C

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PROJECT NO:	1022747

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Project Status

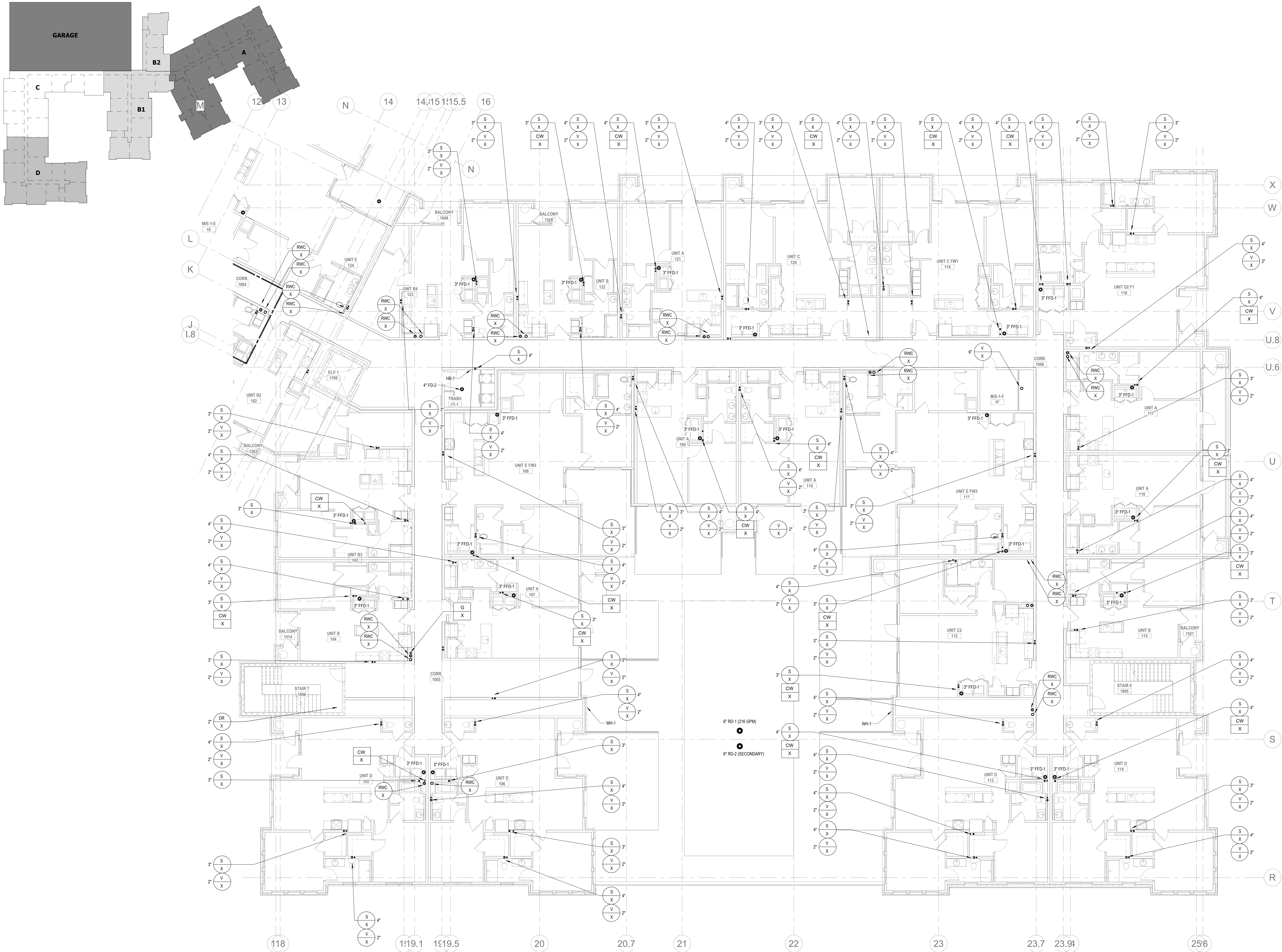
PLUMBING - CLUB LEVEL 2 PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	09/21/22

2.03D



1 PLUMBING - FIRST FLOOR PLAN A
P2.04A 1/8" = 1'-0"

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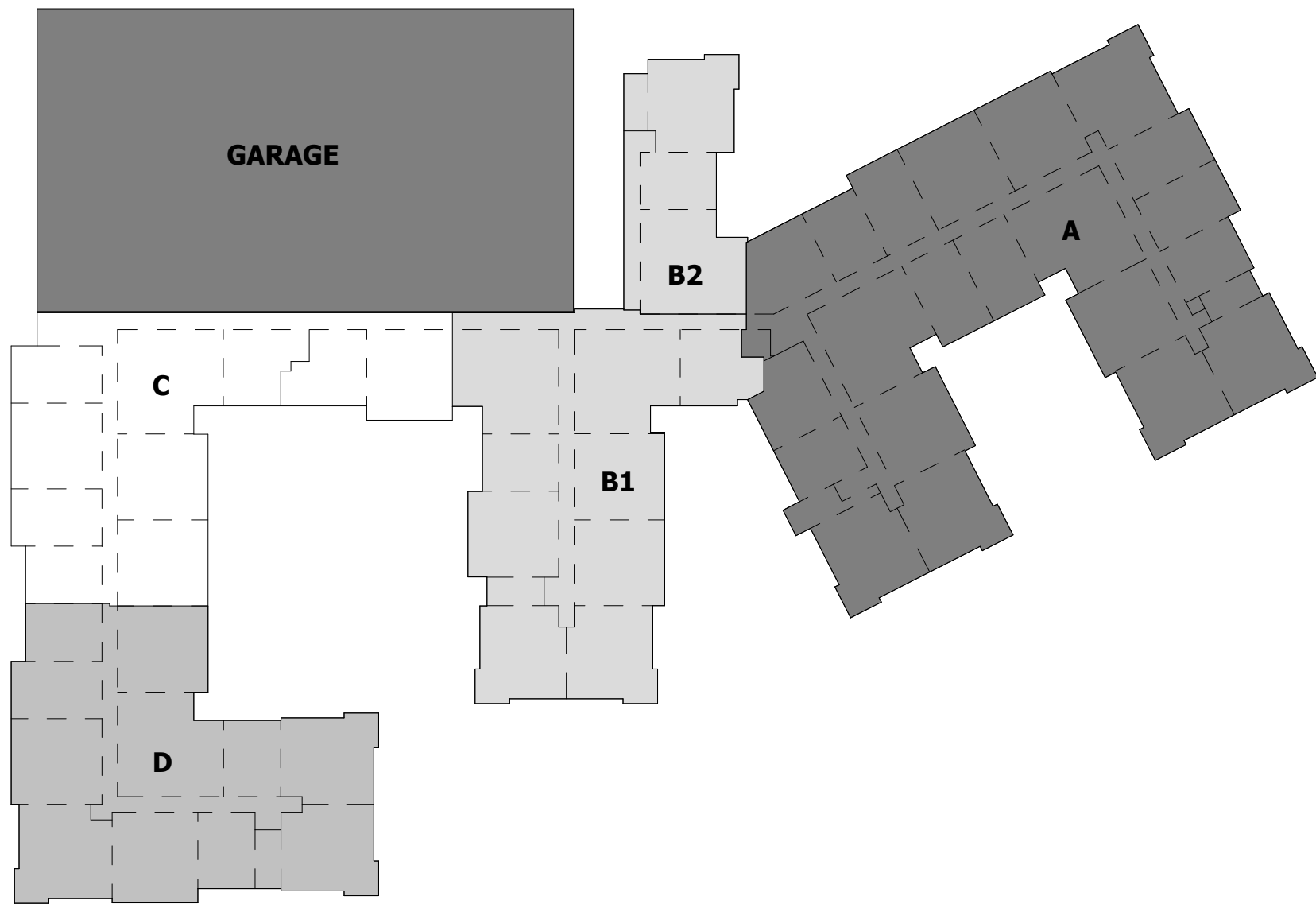
NO.	REVISION	DATE
1	ISSUE FOR SEPARATE BUDGET PRICING SET	11/11/2022
1	PERMIT SET	12/20/2022

Project Status

PLUMBING - FIRST FLOOR PLAN A
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

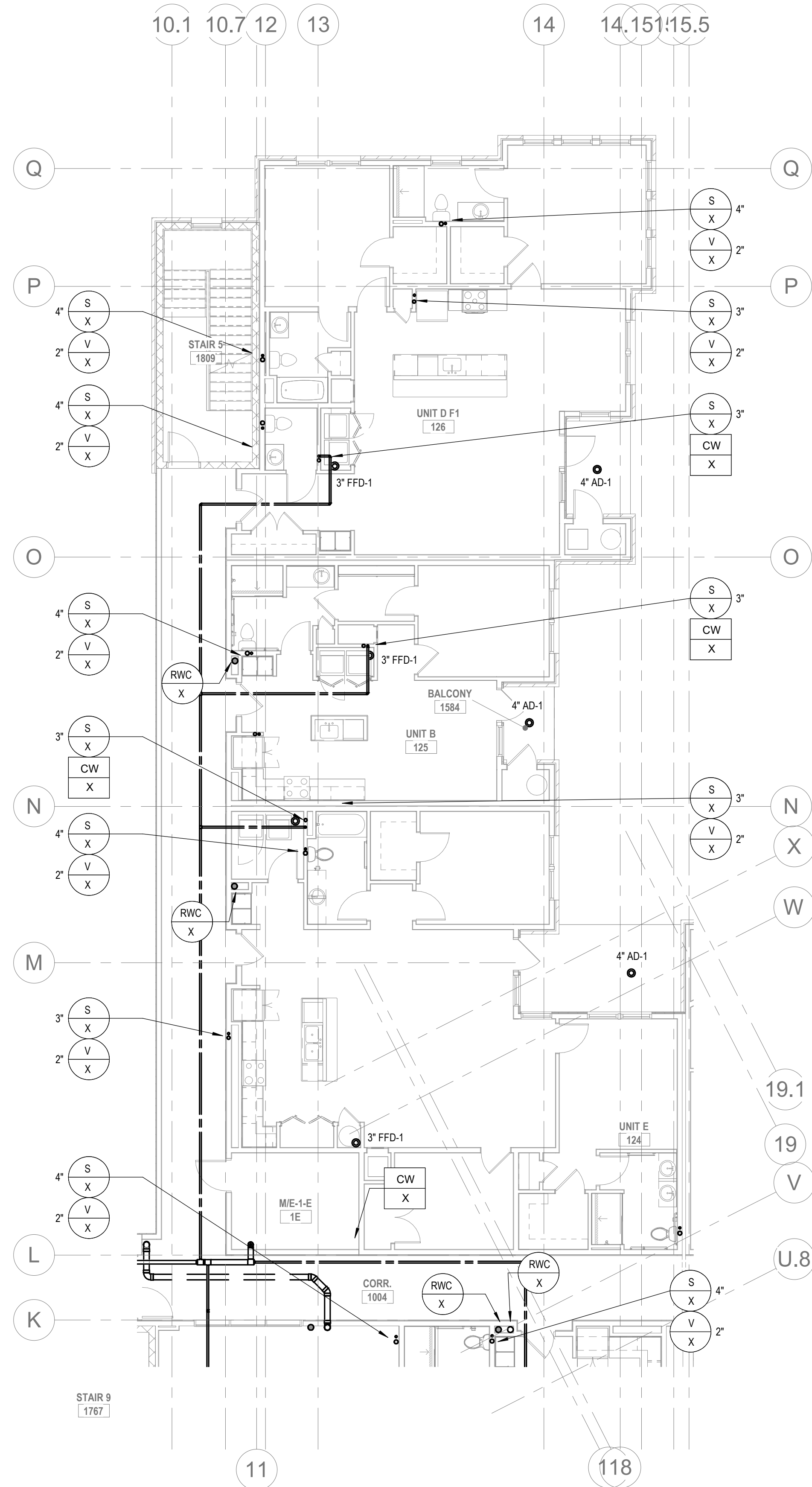
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DATE: 08/18/22

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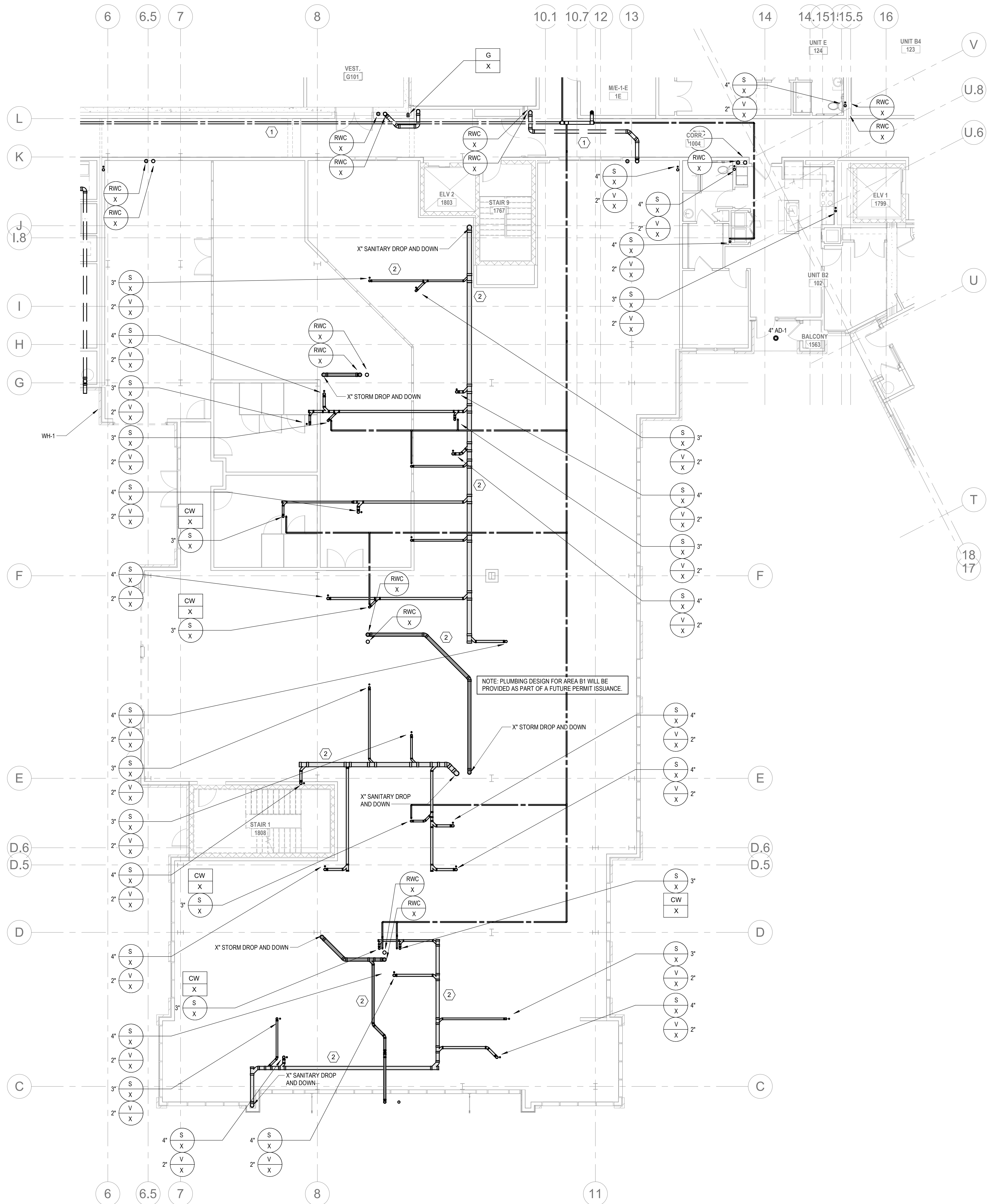
PLUMBING GENERAL NOTES

1. PROVIDE 4" CONDENSATE RECEPTOR ABOVE CEILING TIED INTO EACH PRIMARY RAINWATER CONDUCTOR SHOWN ON THIS PLAN.



3 PLUMBING - FIRST FLOOR PLAN B2

1/8" = 1'-0"



4 PLUMBING - FIRST FLOOR PLAN B1

1/8" = 1'-0"

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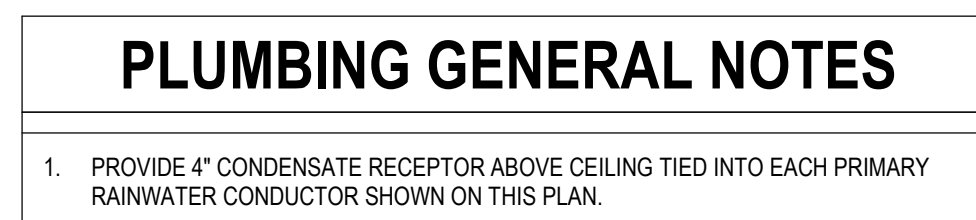
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
2	PERMIT SET	12/20/2022

Project Status

PLUMBING - FIRST FLOOR PLAN B
Granite Run Apartments

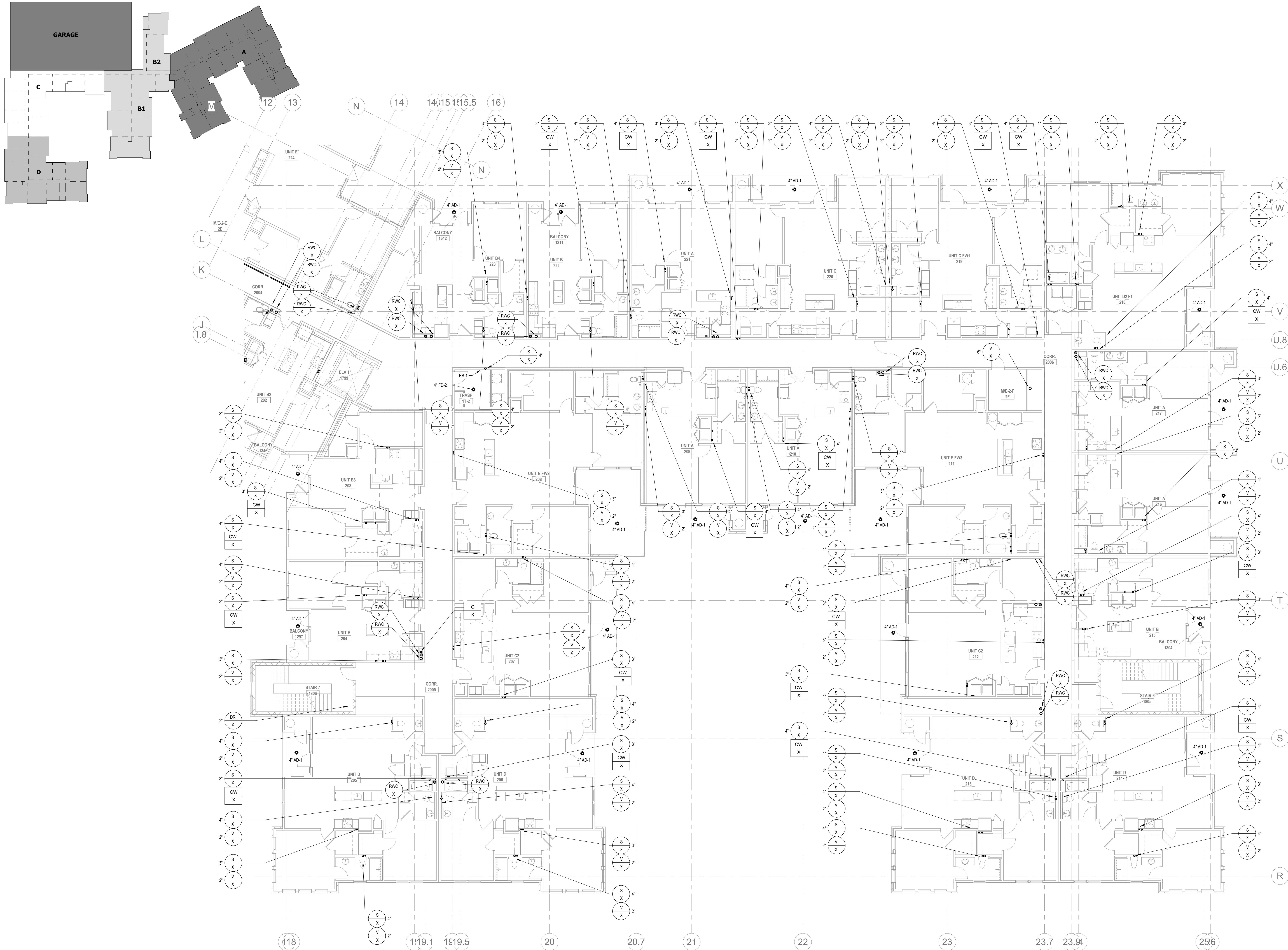
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DATE: 08/19/22

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2.04C
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2 PLUMBING - SECOND FLOOR PLAN A
P2.05A 1/8" = 1'-0"

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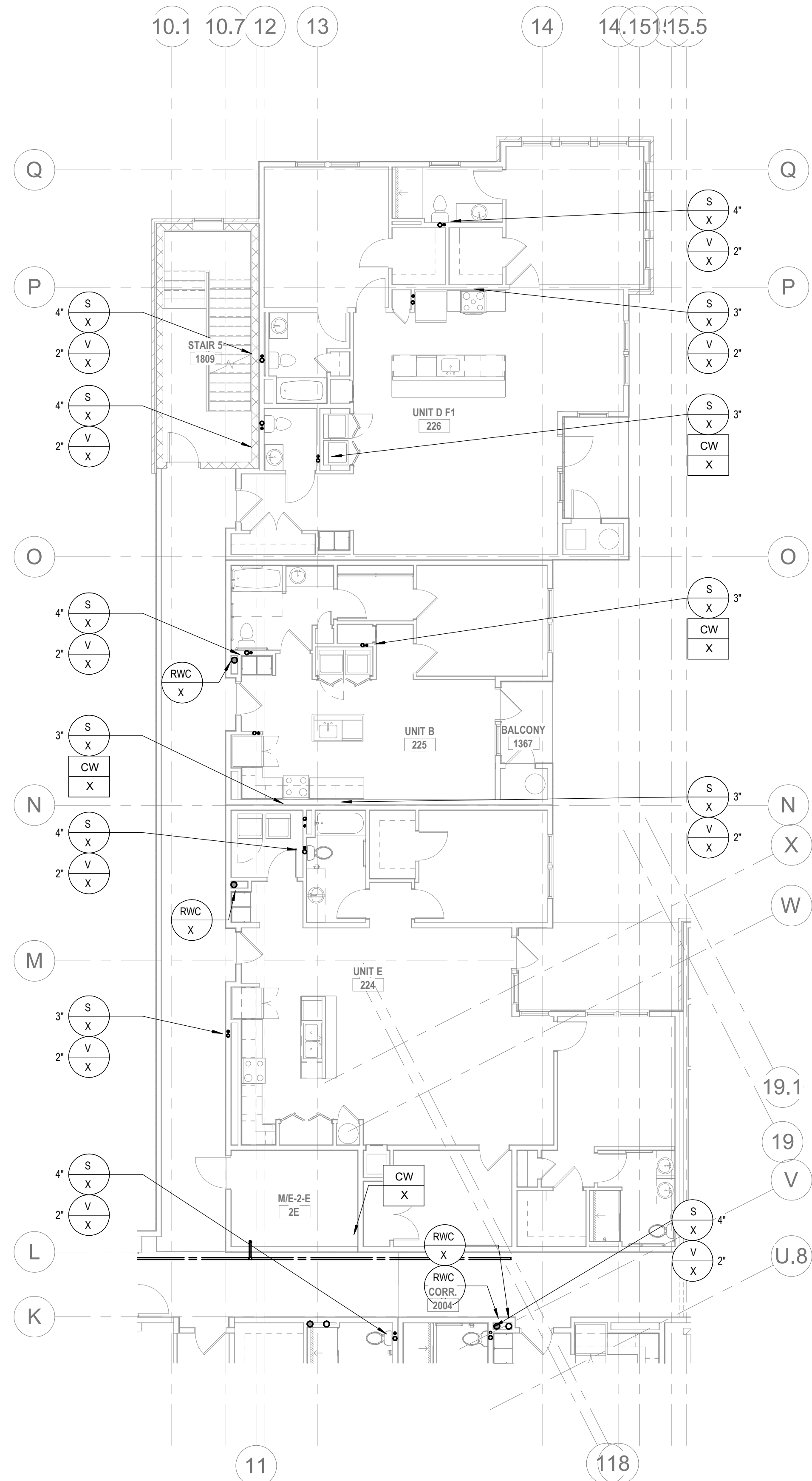
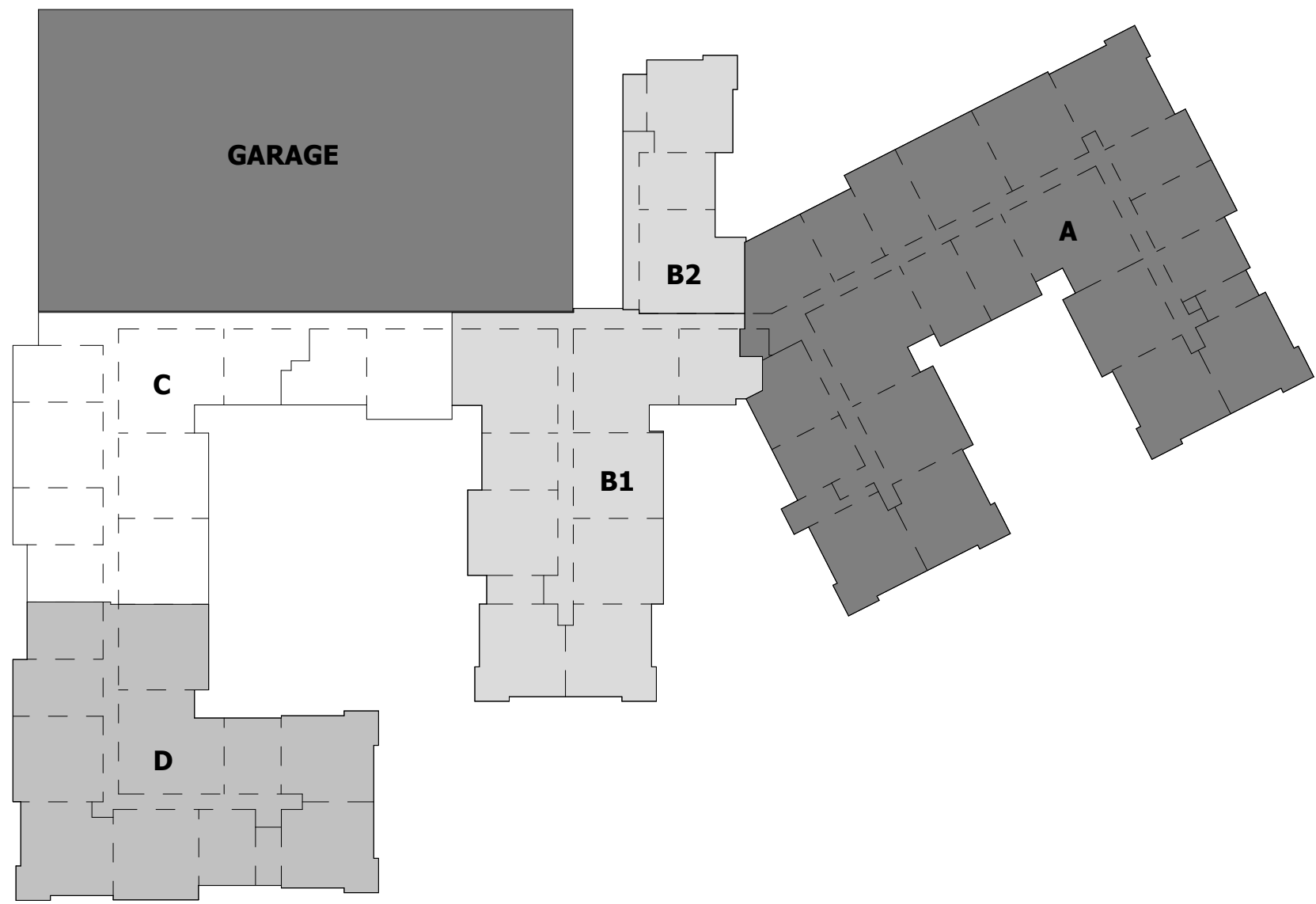
NO.	REVISION	DATE
1	ISSUE FOR SEPARATE BUDGET PRICING SET	11/17/2022
2	PERMIT SET	12/20/2022

Project Status

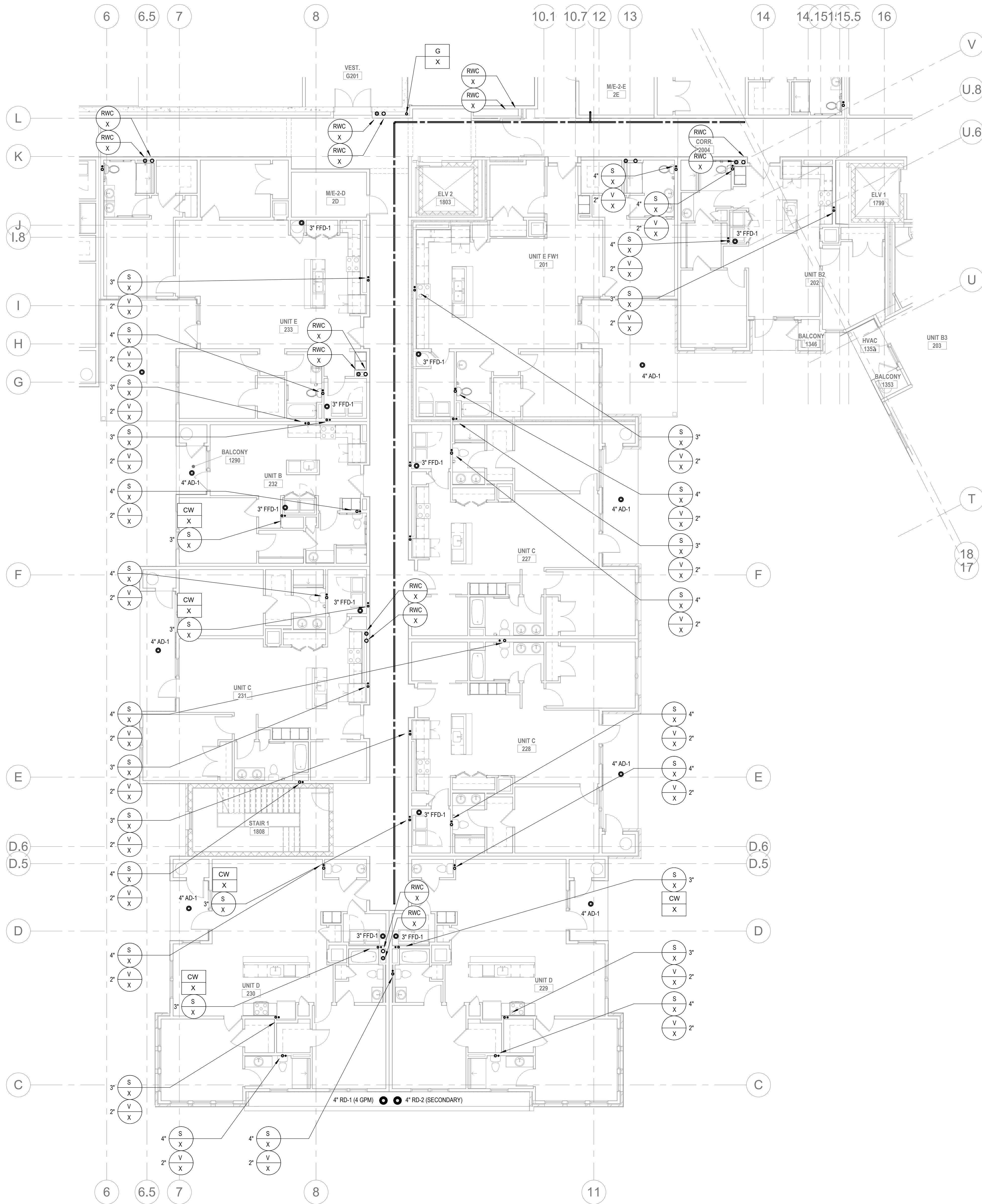
PLUMBING - SECOND FLOOR PLAN A
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 08/19/22

P2.05A
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4 PLUMBING - SECOND FLOOR PLAN B2
P2.05B 1/8" = 1'-0"



3 PLUMBING - SECOND FLOOR PLAN B1
P2.05B 1/8" = 1'-0"

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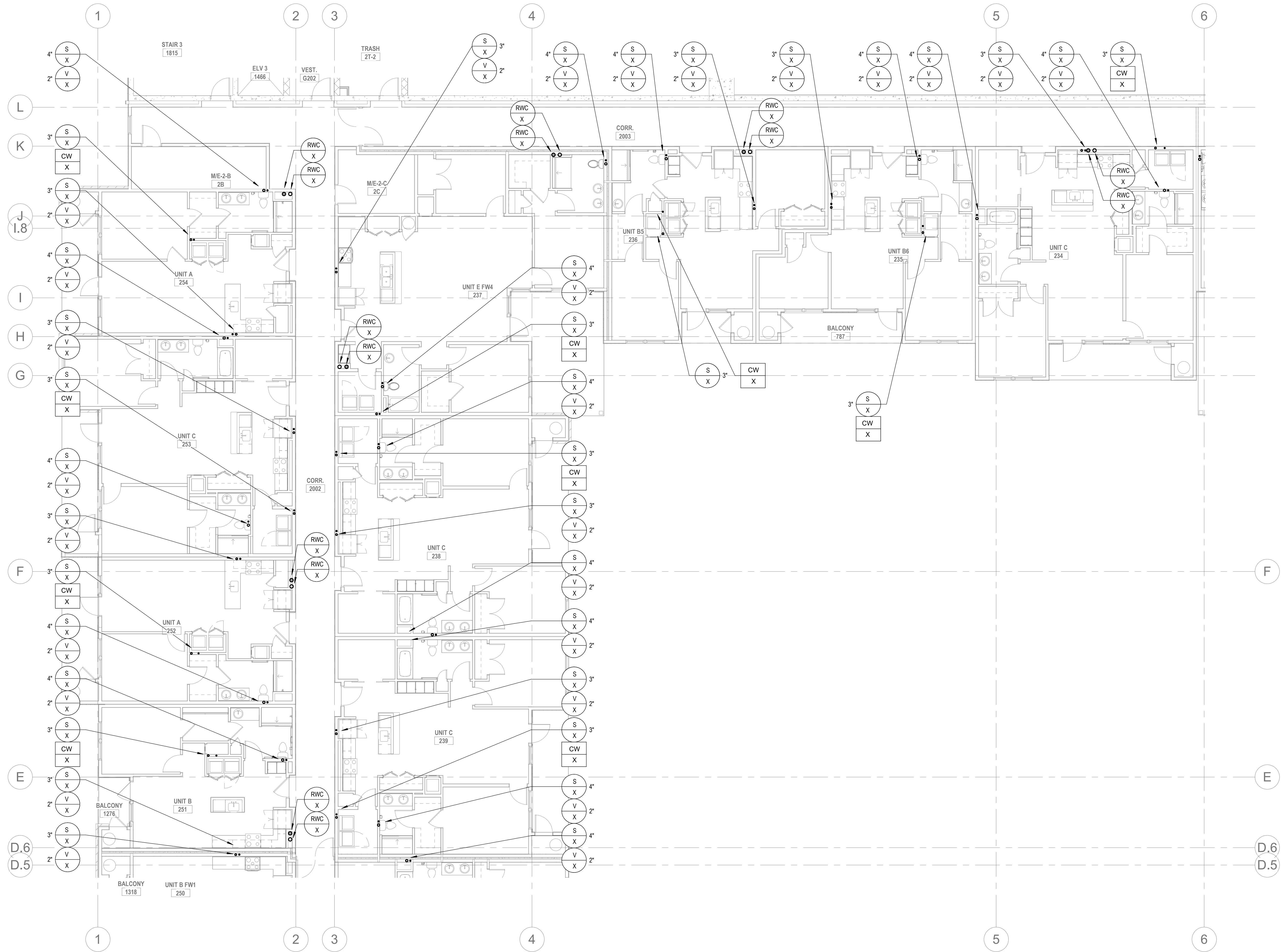
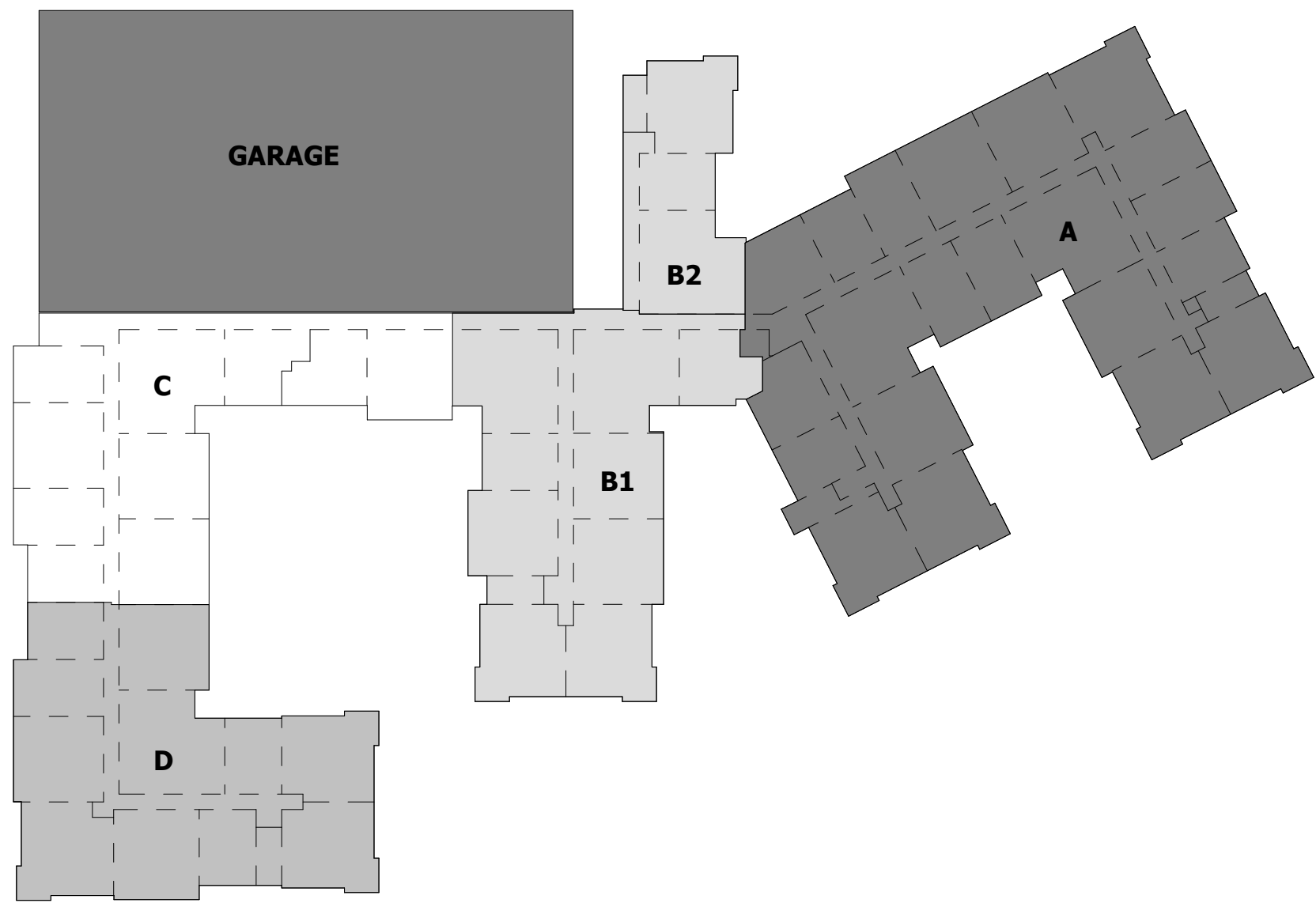
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

PLUMBING - SECOND FLOOR PLAN B
Granite Run Apartments

SCALE: AS INDICATED
DATE: 08/19/22

P2.05B
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2 PLUMBING - SECOND FLOOR PLAN C
P2.05C 1/8" = 1'-0"

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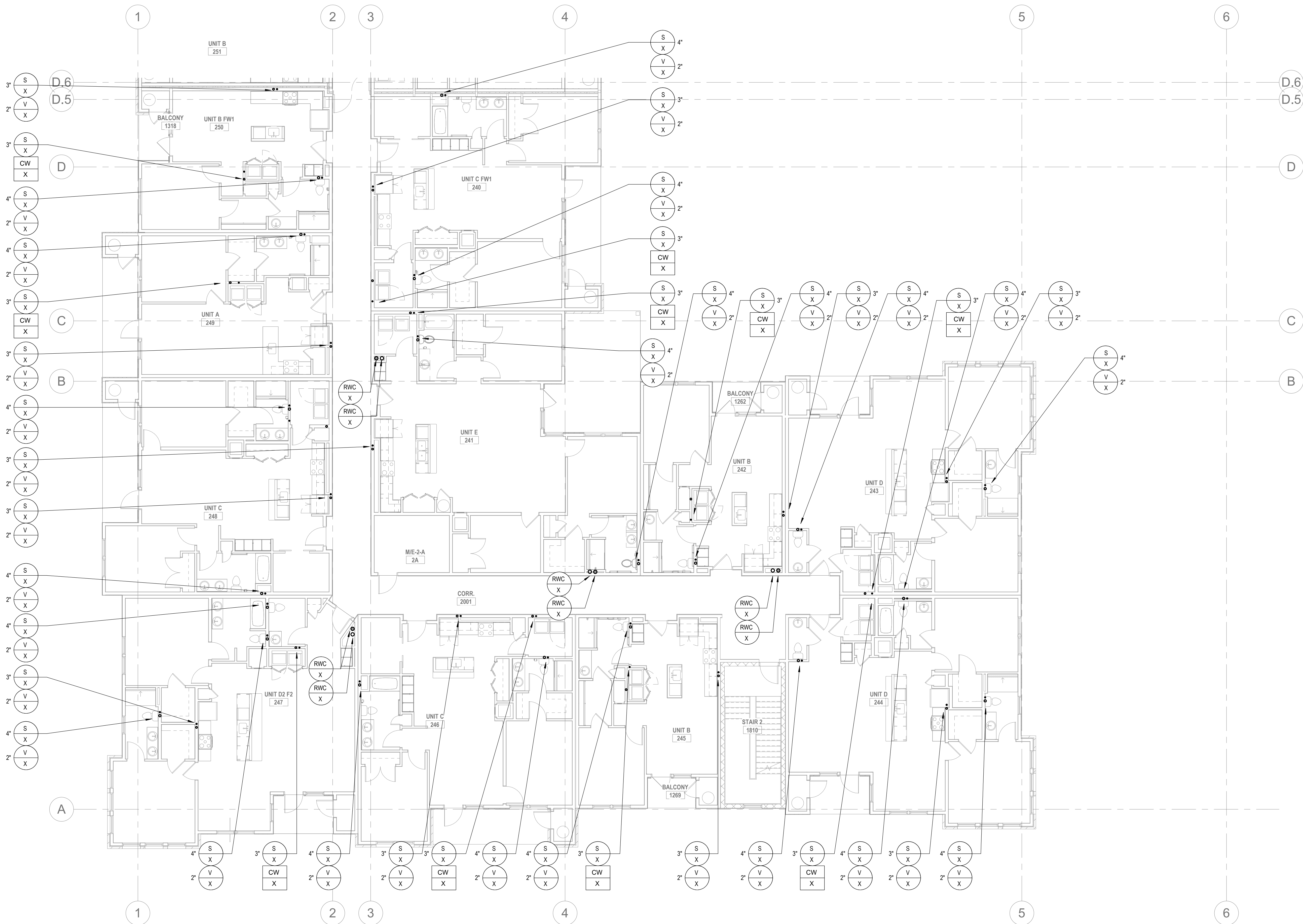
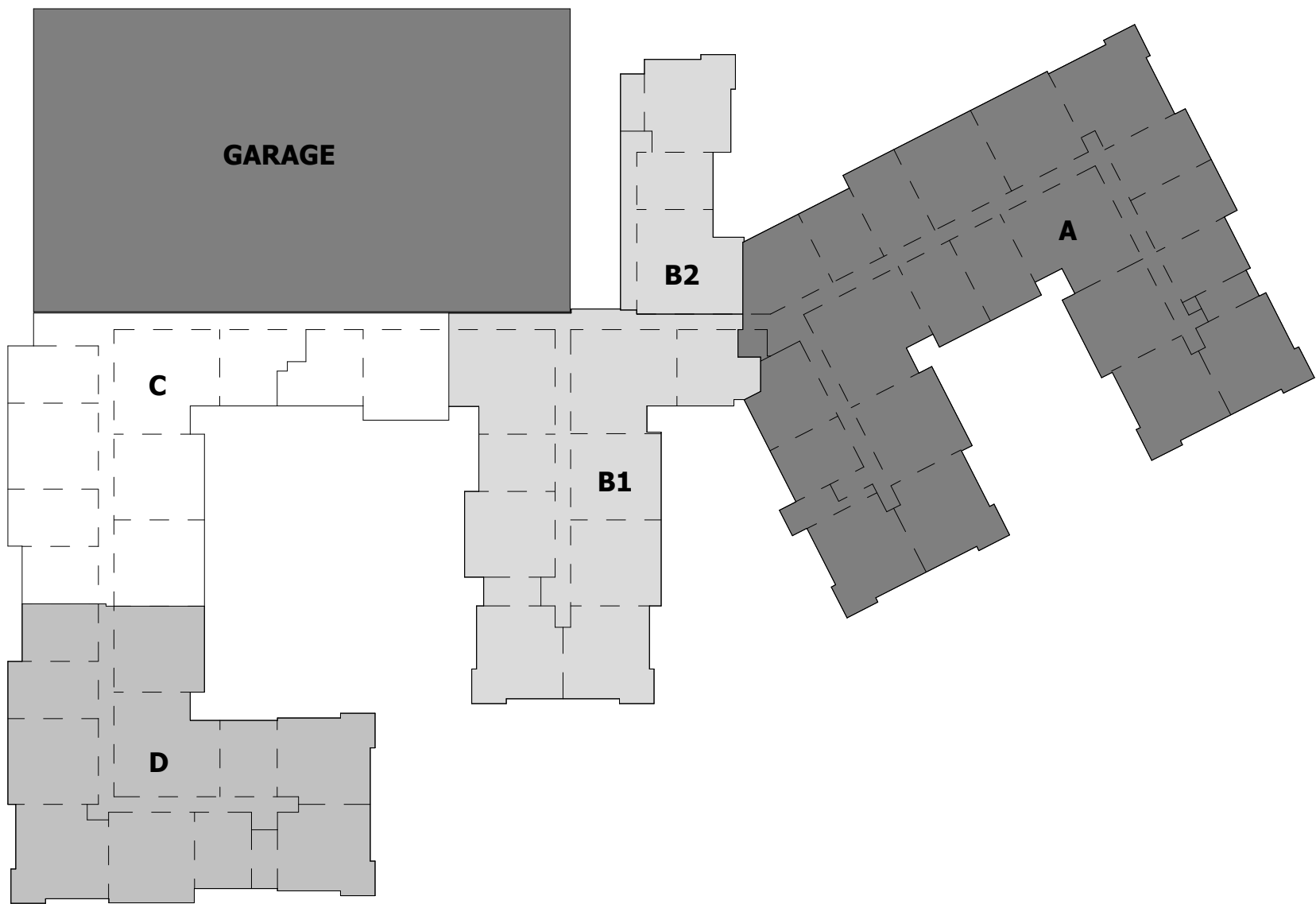
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

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PLUMBING - SECOND FLOOR PLAN C
Granite Run Apartments

SCALE: AS INDICATED
DATE: 08/19/22

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2
P2.05D
1/8" = 1'-0"
PLUMBING - SECOND FLOOR PLAN D

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1	PERMIT SET	12/20/2022

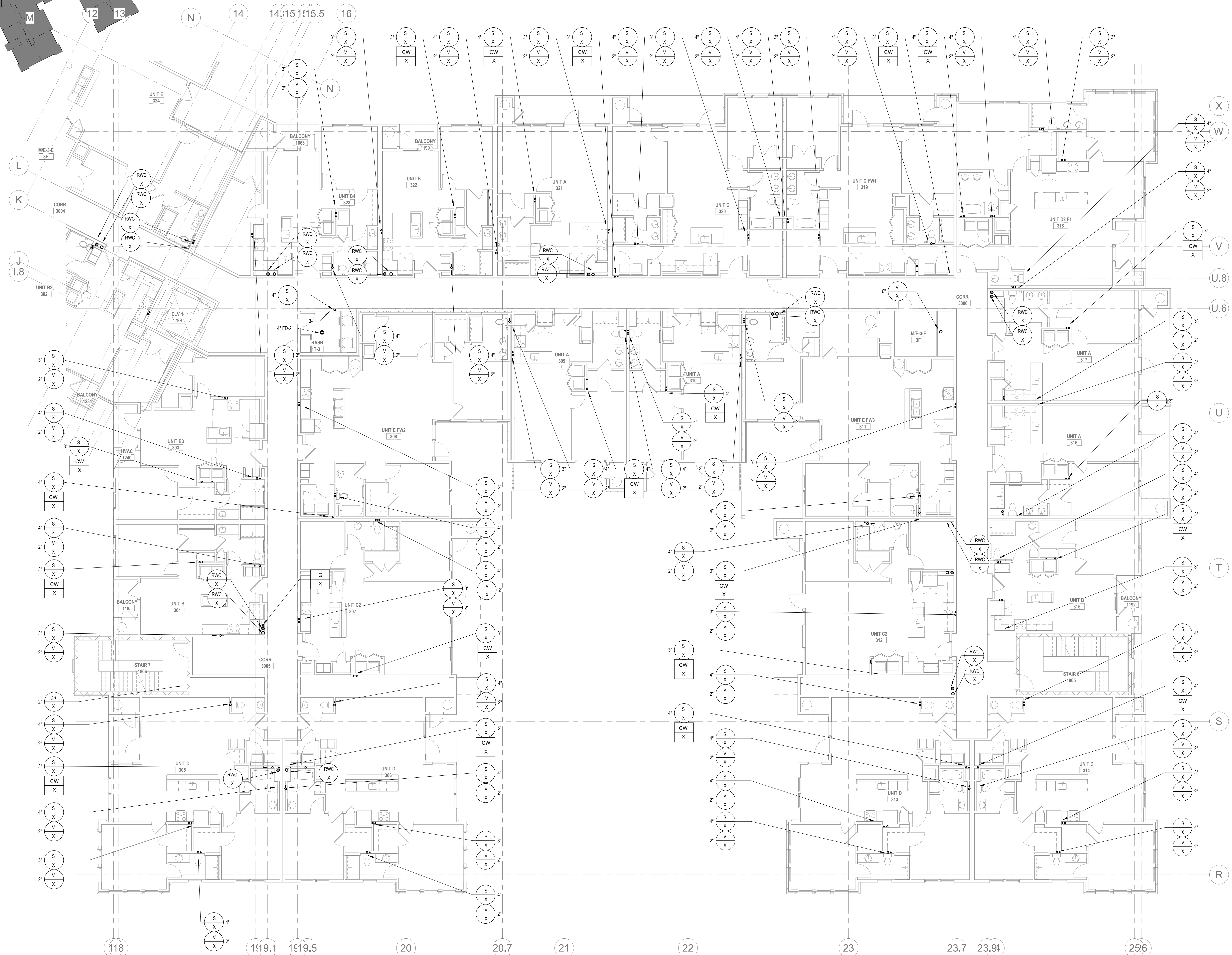
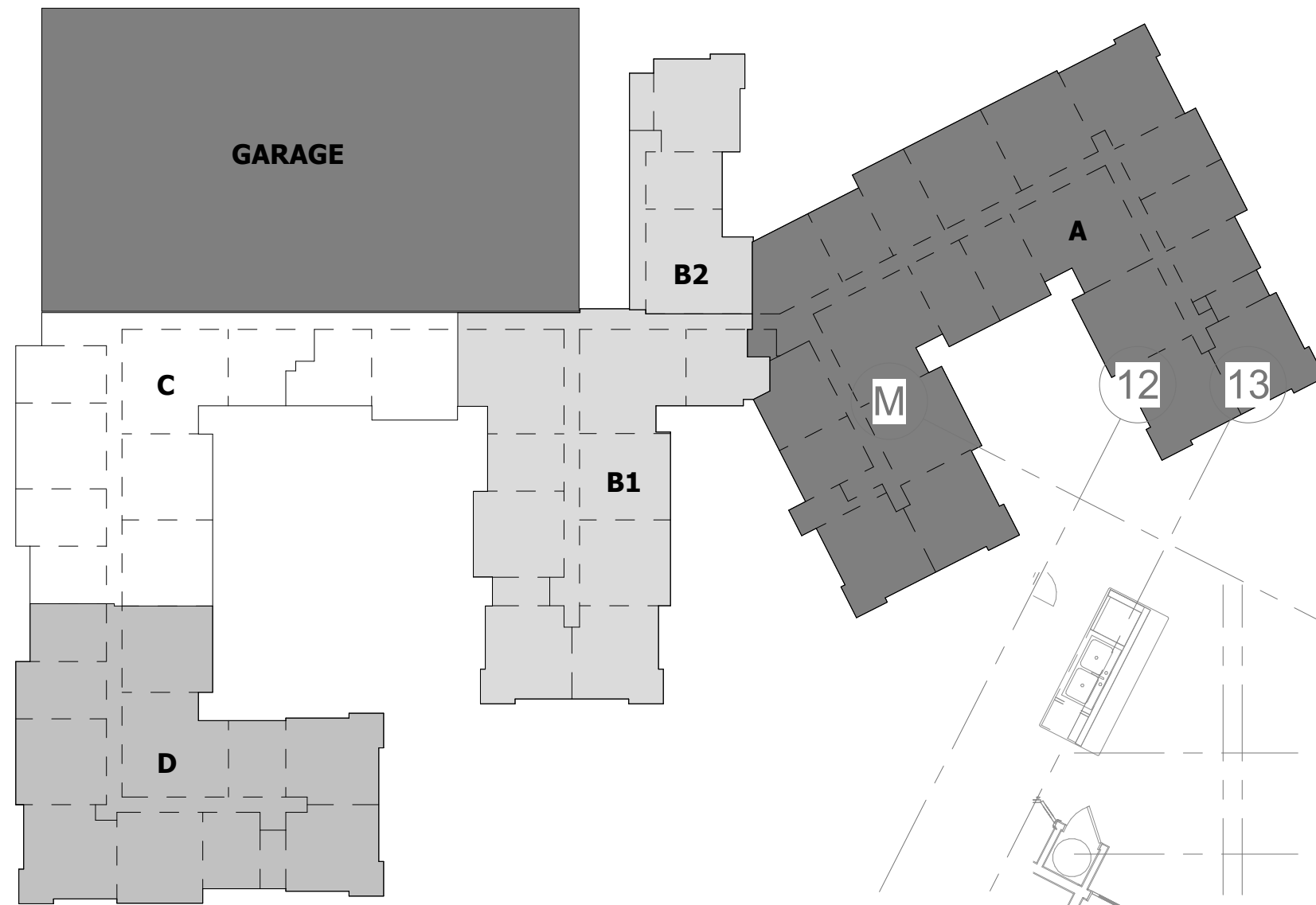
Project Status

PLUMBING - SECOND FLOOR PLAN D
Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 08/19/22

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2 PLUMBING - THIRD FLOOR PLAN A
P2.06A
1/8" = 1'-0"

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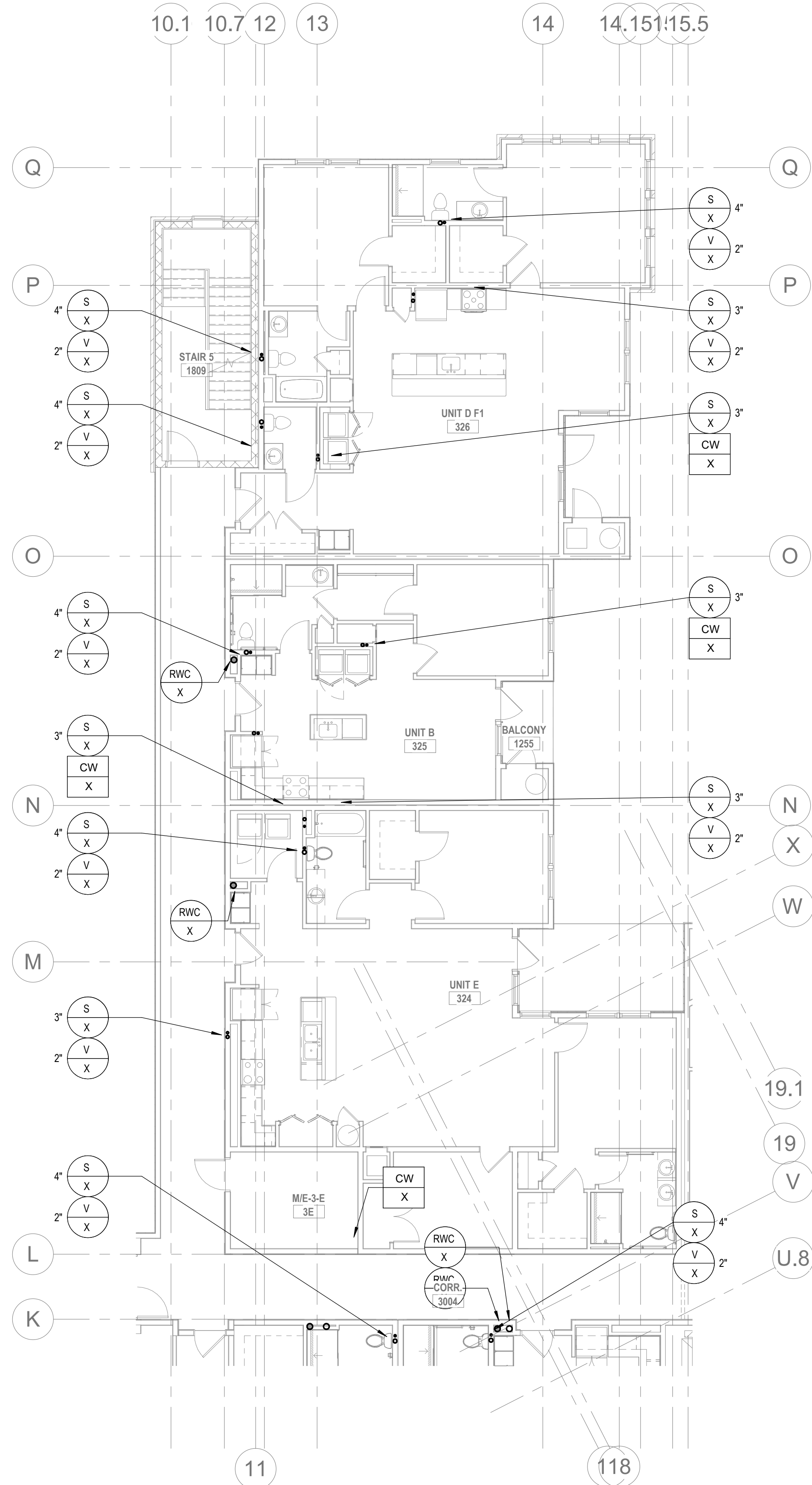
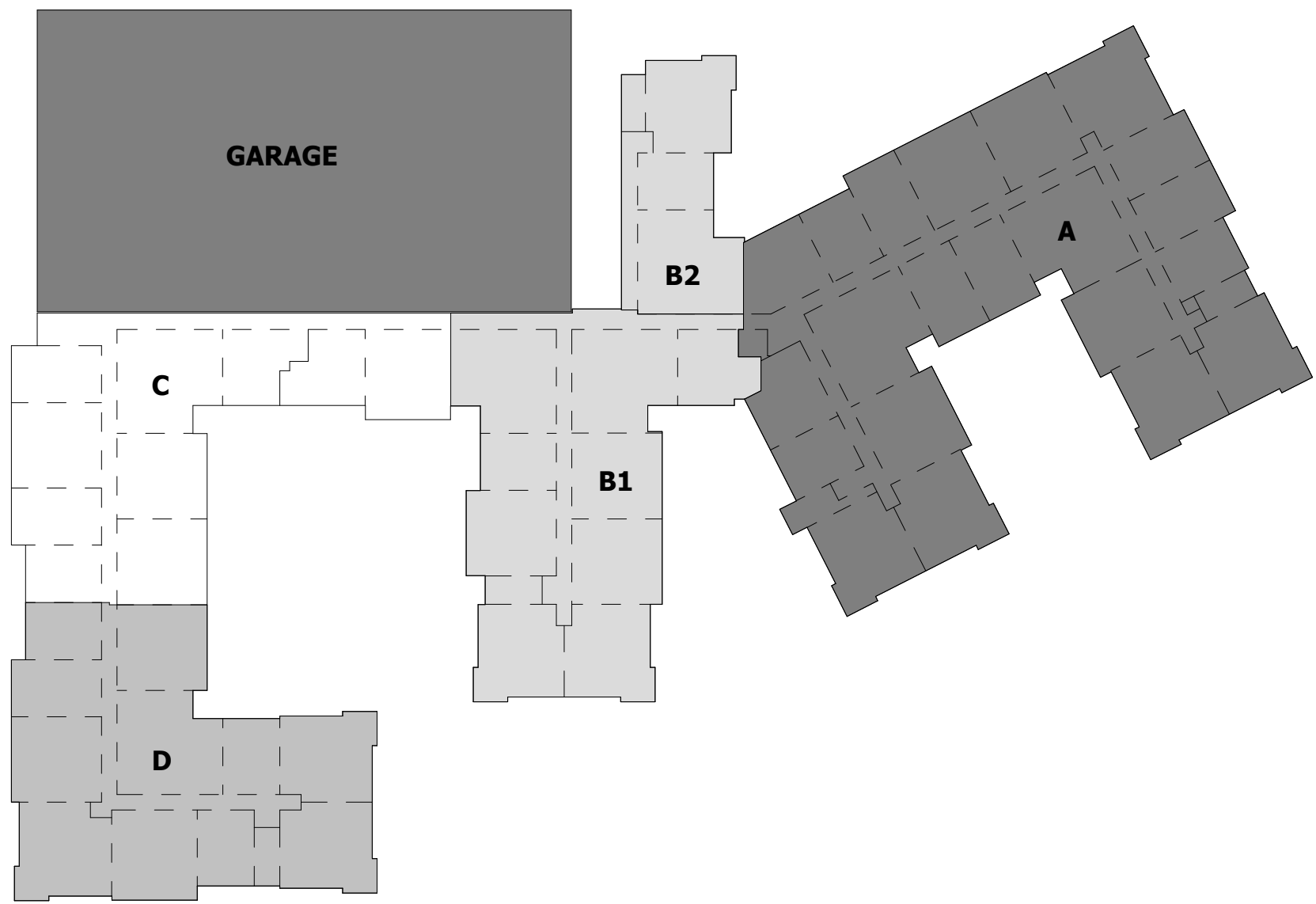
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1	ISSUE SET	11/17/2022
2	SEPARATE BUDGET PRICING SET	12/20/2022
3	PERMIT SET	

Project Status

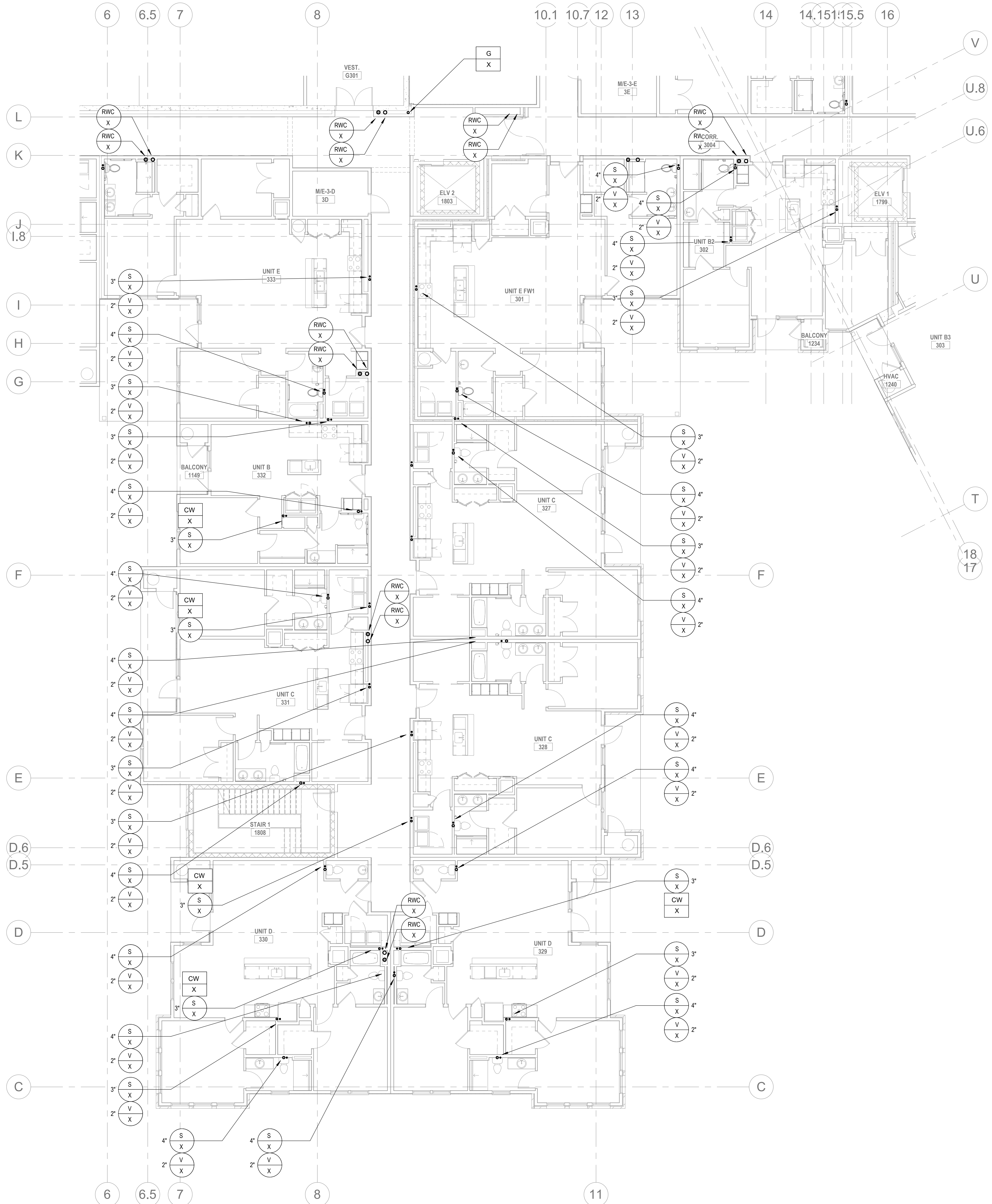
PLUMBING - THIRD FLOOR PLAN A
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 08/19/22

P2.06A
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4 PLUMBING - THIRD FLOOR PLAN B2
P2.06B 1/8" = 1'-0"



3 PLUMBING - THIRD FLOOR PLAN B1
P2.06B 1/8" = 1'-0"

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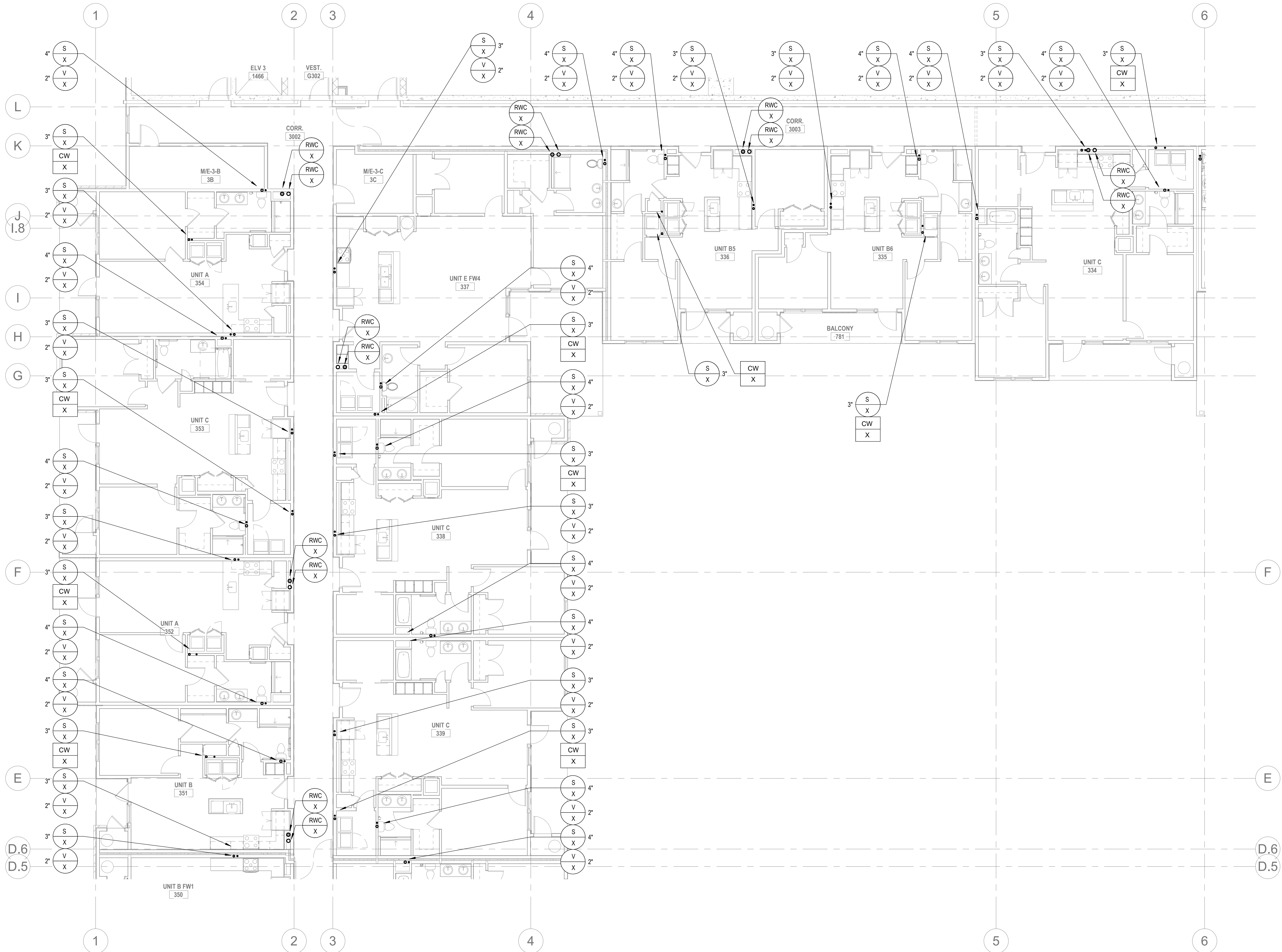
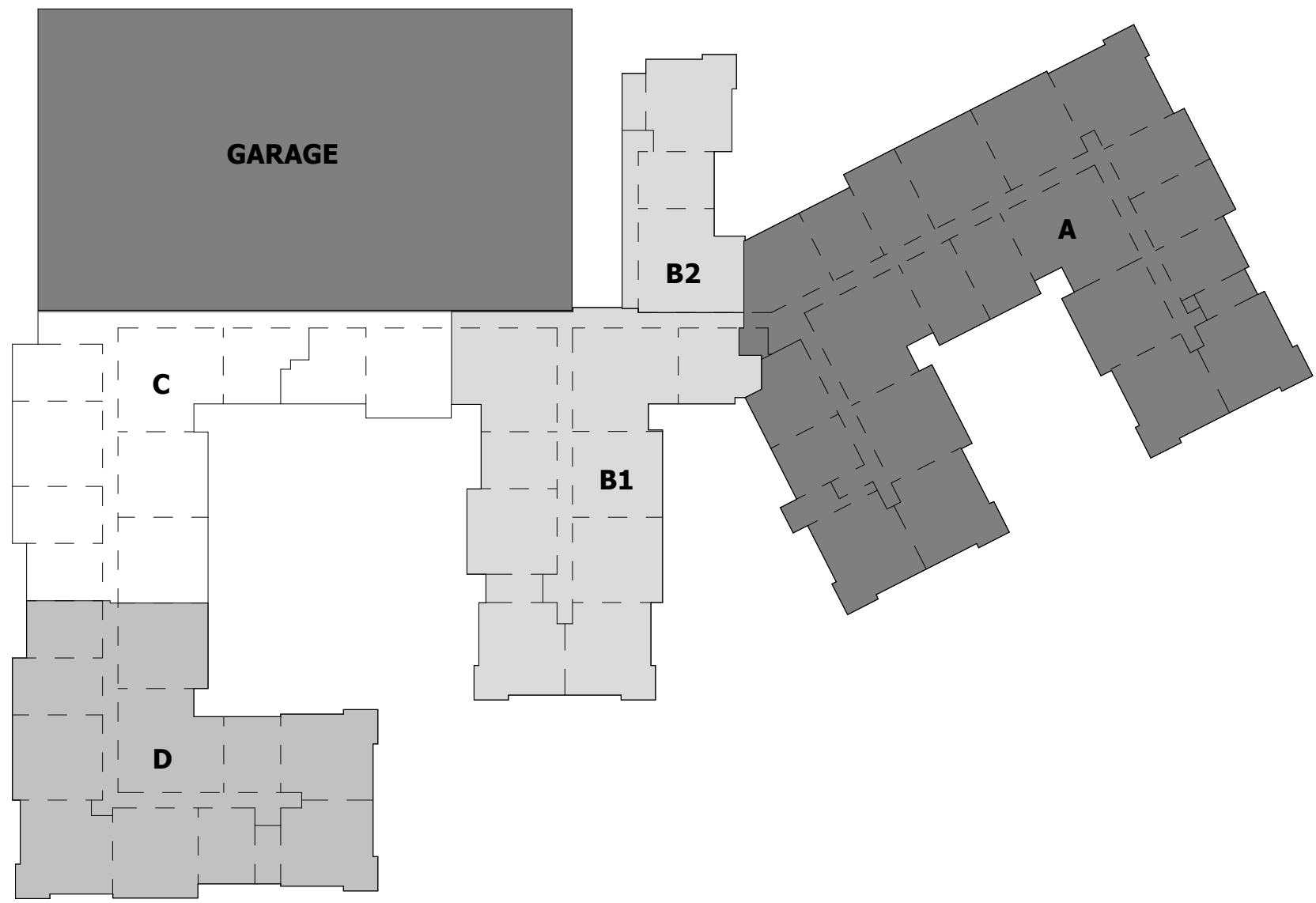
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/11/2022
2	PERMIT SET	12/20/2022

Project Status

PLUMBING - THIRD FLOOR PLAN B
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 08/19/22

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2 PLUMBING - THIRD FLOOR PLAN C
P2.06C 1/8" = 1'-0"

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1	PERMIT SET	12/20/2022

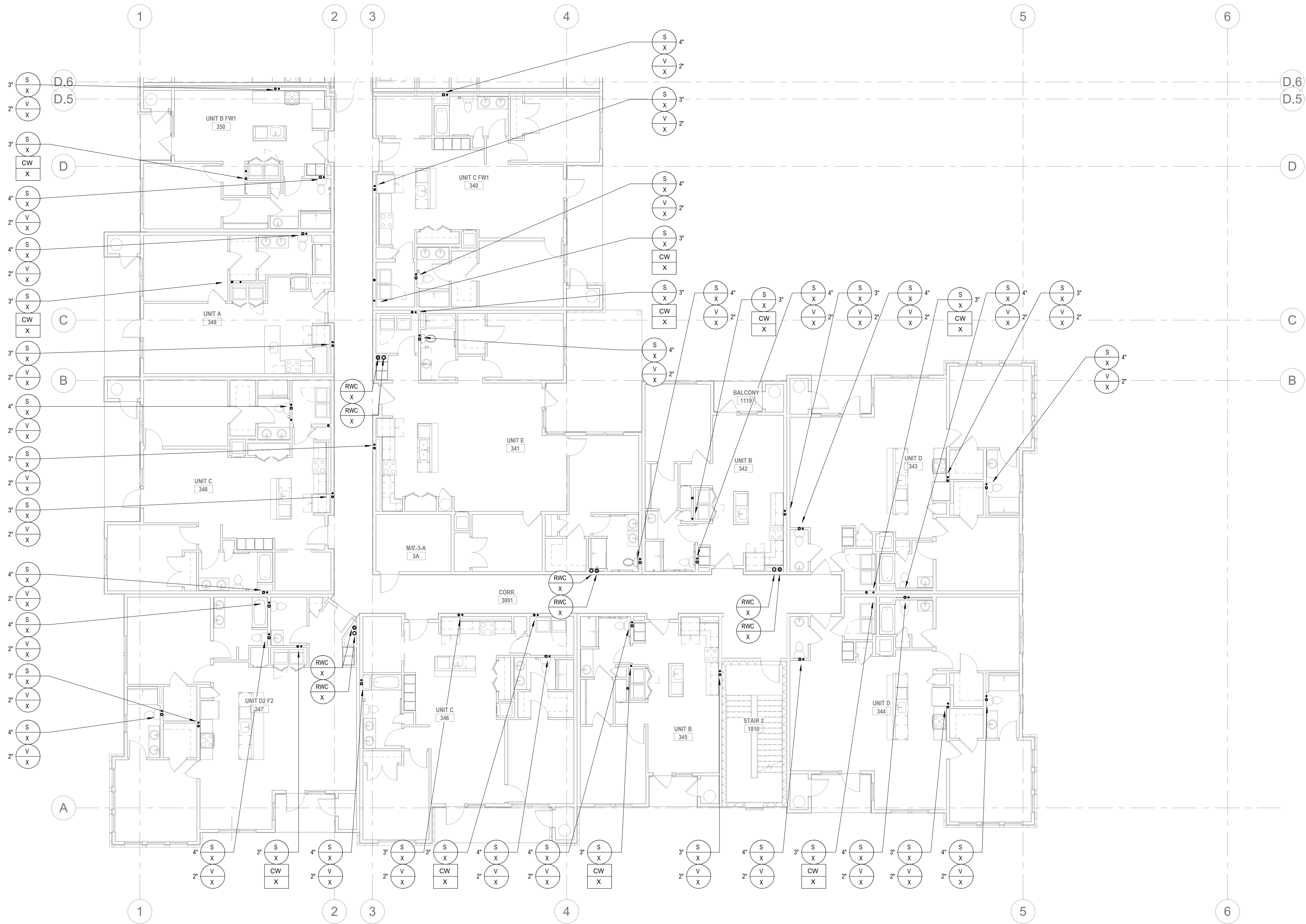
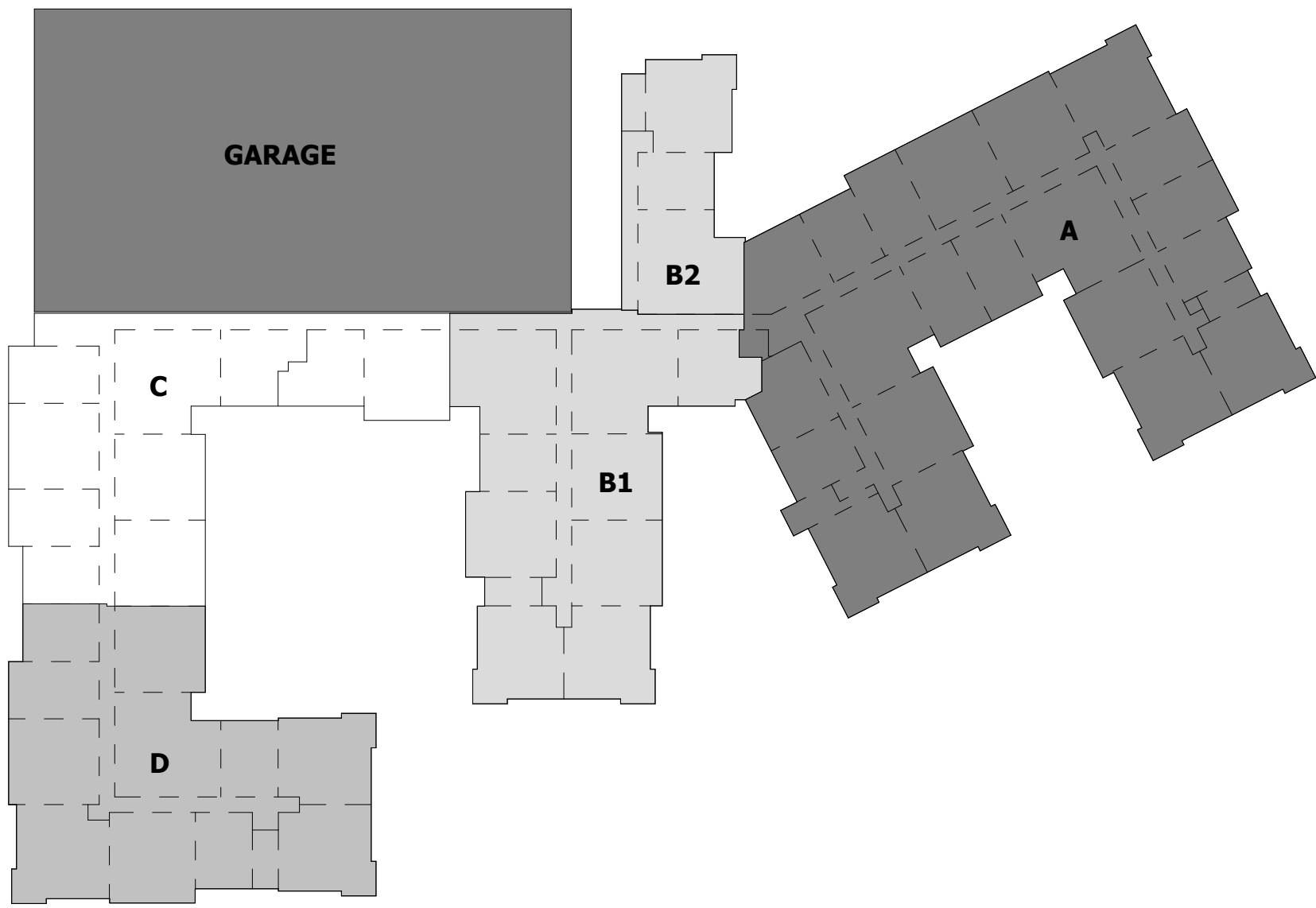
Project Status

PLUMBING - THIRD FLOOR PLAN C
Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
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2 PLUMBING - THIRD FLOOR PLAN D
P2.06D 1/8" = 1'-0"

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1	PERMIT SET	12/20/2022

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PLUMBING - THIRD FLOOR PLAN D
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

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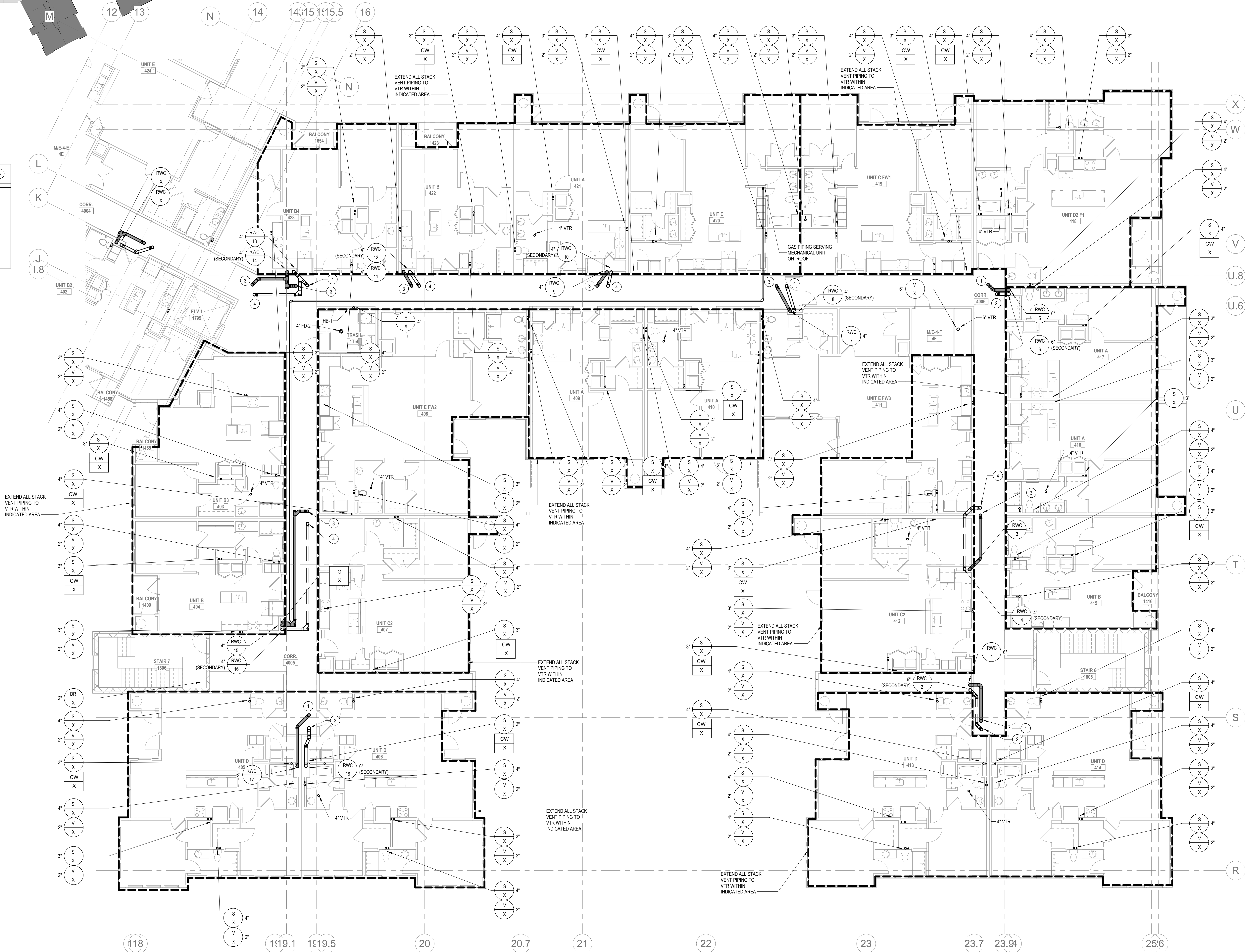
PLUMBING DRAWING NOTES

1. 6" RAINWATER CONDUCTOR FROM ABOVE.

2. 6" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.

3. 4" RAINWATER CONDUCTOR FROM ABOVE.

4. 4" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.



2

P2.07A

PLUMBING - FOURTH FLOOR PLAN A

1/8" = 1'-0"

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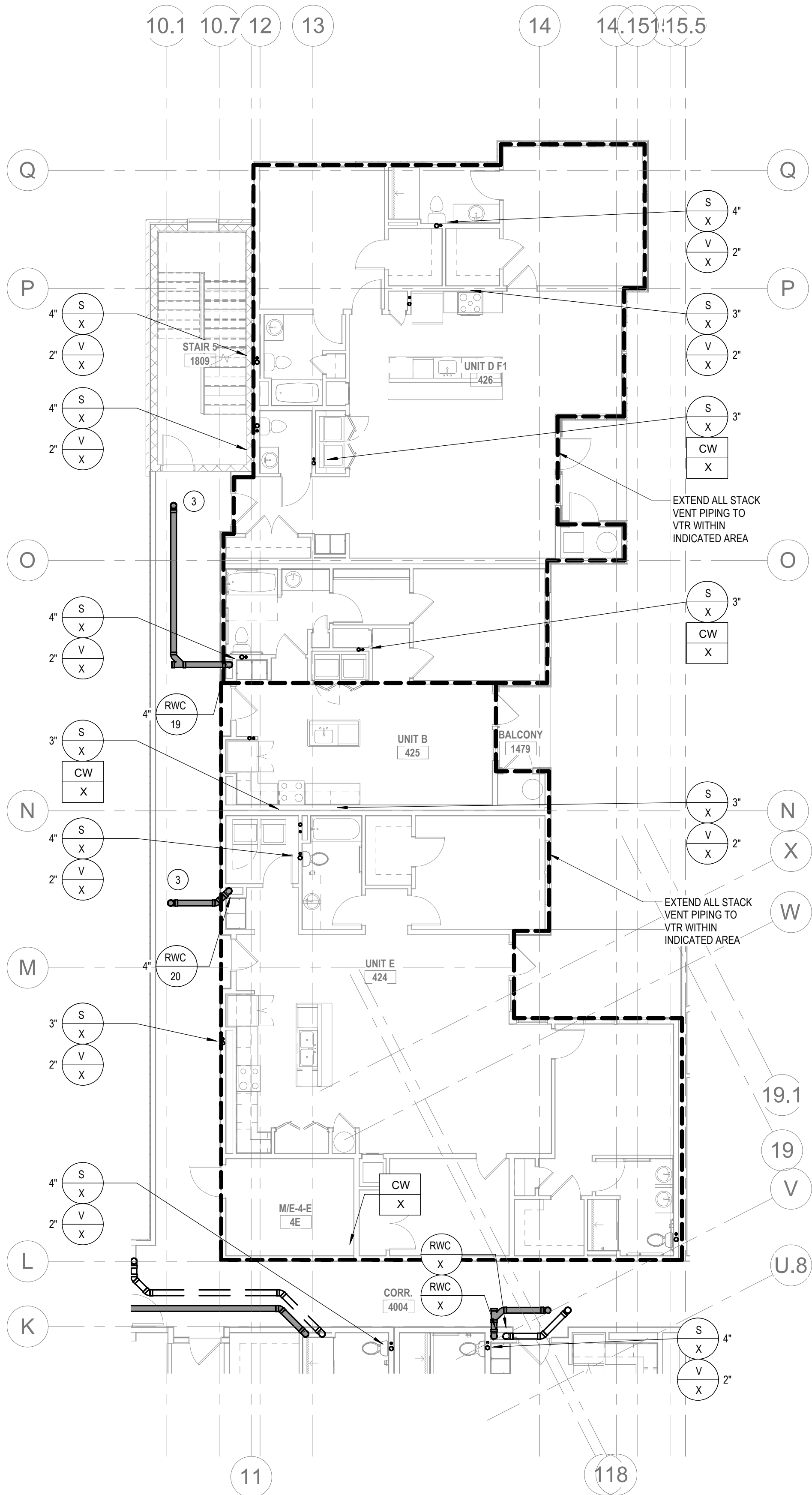
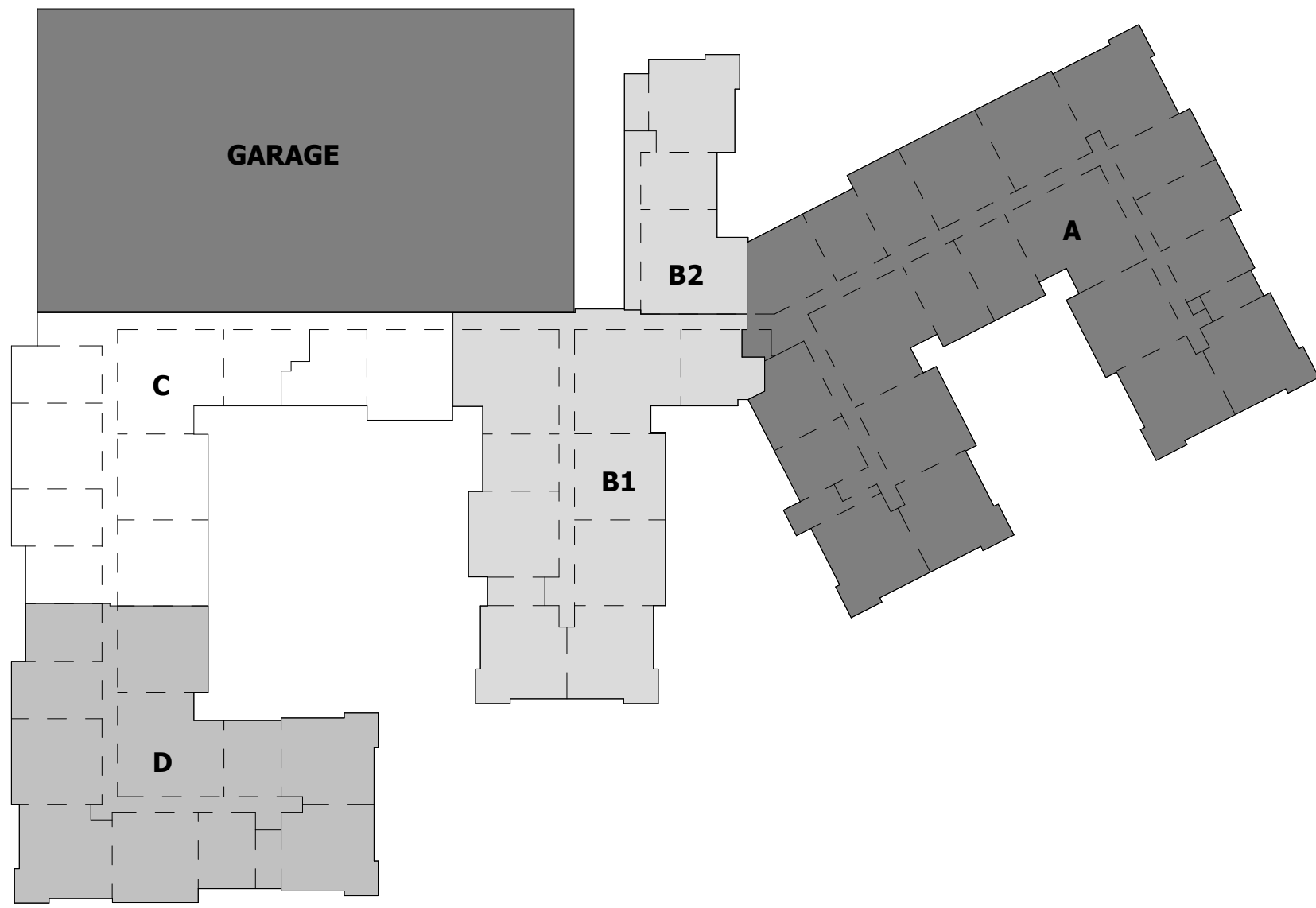
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PLUMBING - FOURTH FLOOR PLAN A
Granite Run Apartments

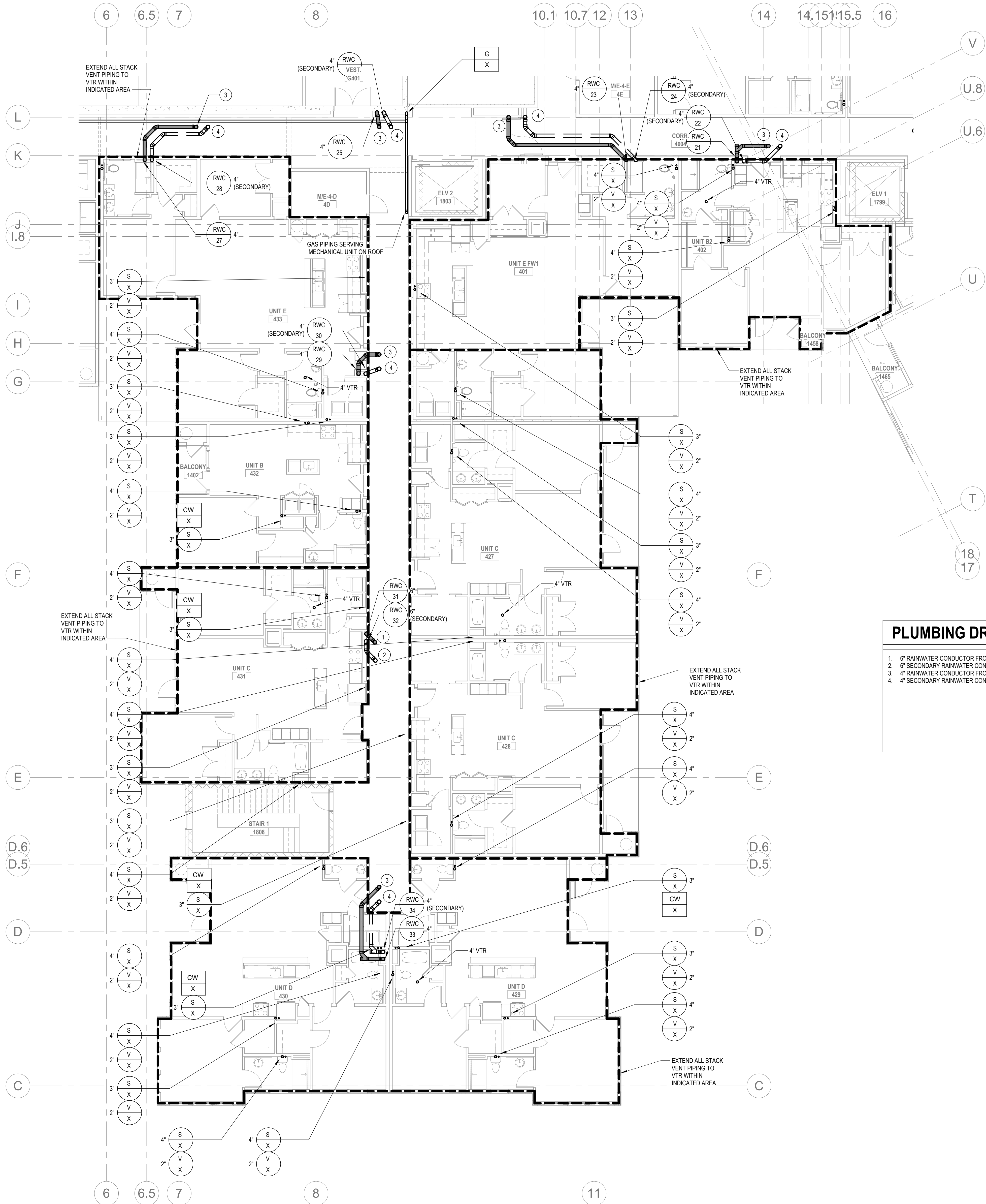
SCALE: AS INDICATED
DATE: 08/19/22

P2.07A

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4 PLUMBING - FOURTH FLOOR PLAN B2
P2.07B 1/8" = 1'-0"



2 PLUMBING - FOURTH FLOOR PLAN B1
P2.07B 1/8" = 1'-0"

PLUMBING DRAWING NOTES

1. 6" RAINWATER CONDUCTOR FROM ABOVE.
2. 6" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.
3. 4" RAINWATER CONDUCTOR FROM ABOVE.
4. 4" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.

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P (215) 665-1060 F (215) 561-5064

P.A.: JTG
P.M.: TRT
DRAWN BY: Author
PROJECT NO: 1022747

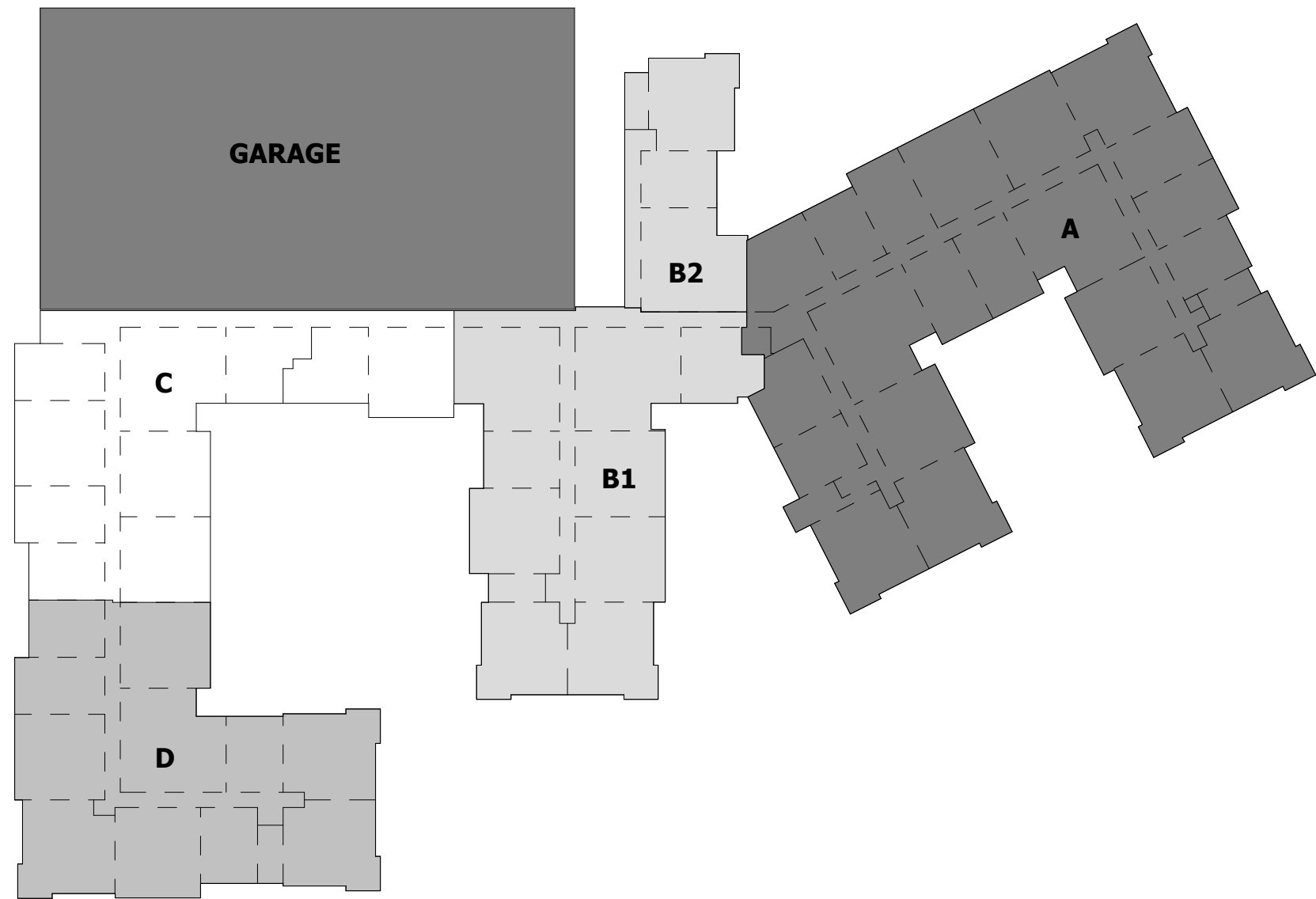
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

PLUMBING - FOURTH FLOOR PLAN B
Granite Run Apartments

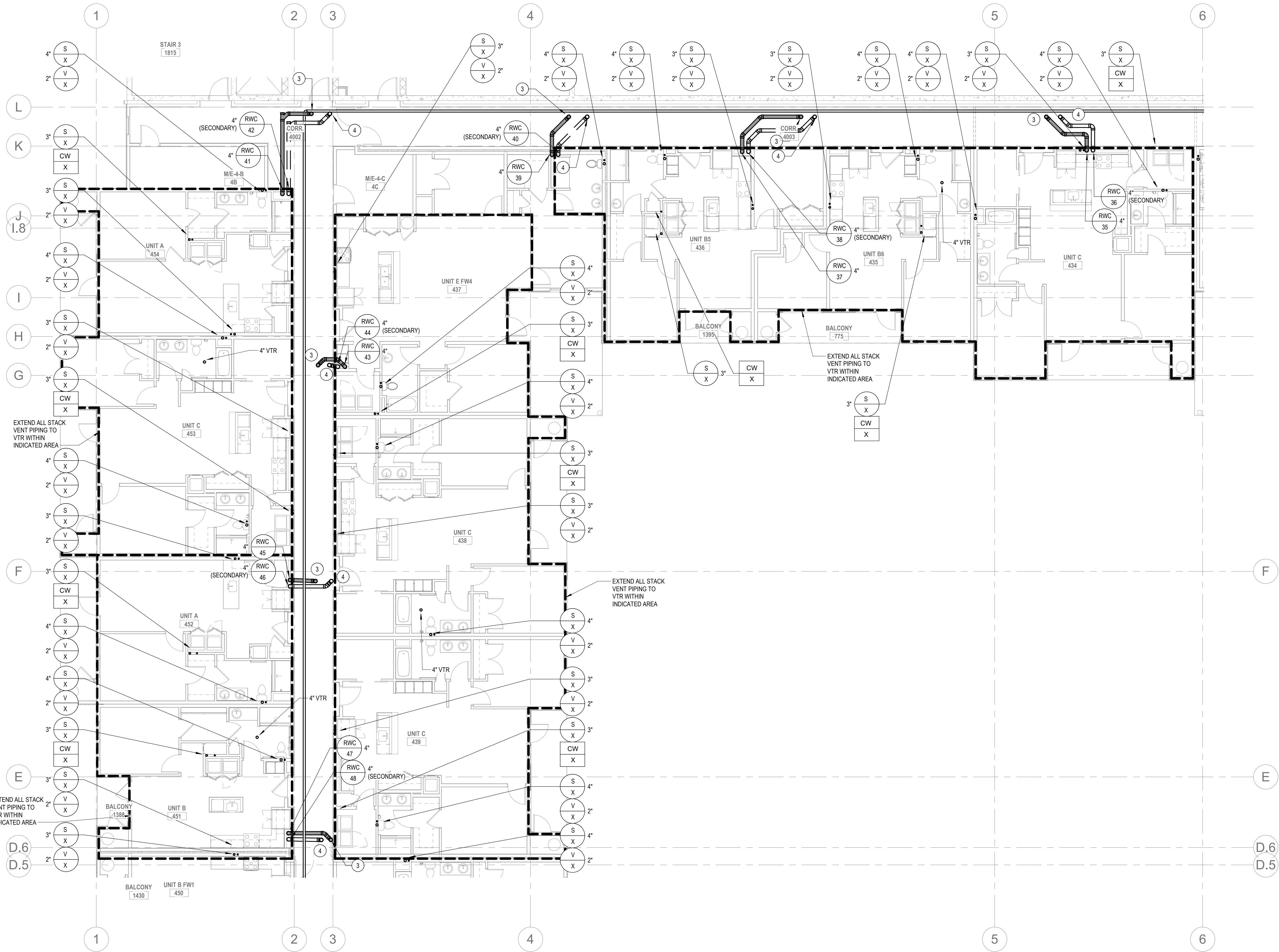
SCALE: AS INDICATED
DATE: 08/19/22

P2.07B
© The Martin Architectural Group, P.C.



PLUMBING DRAWING NOTES

- 6" RAINWATER CONDUCTOR FROM ABOVE.
- 6" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.
- 4" RAINWATER CONDUCTOR FROM ABOVE.
- 4" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.



2 PLUMBING - FOURTH FLOOR PLAN C
P2.07C 1/8" = 1'-0"

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PROJECT NO: 1022747

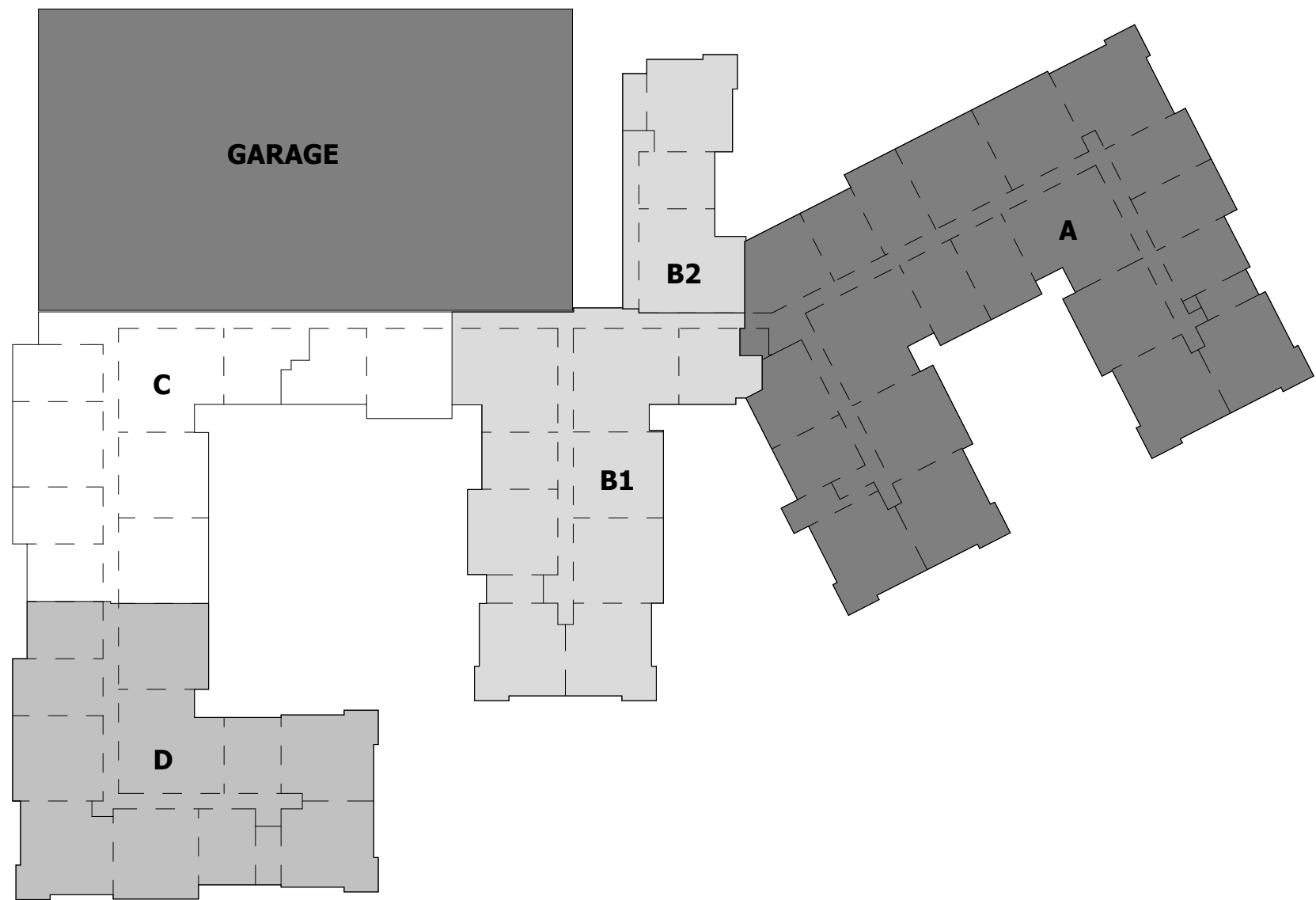
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/11/2022
1	PERMIT SET	12/20/2022

Project Status

PLUMBING - FOURTH FLOOR PLAN C
Granite Run Apartments

SCALE: AS INDICATED
DATE: 08/19/22

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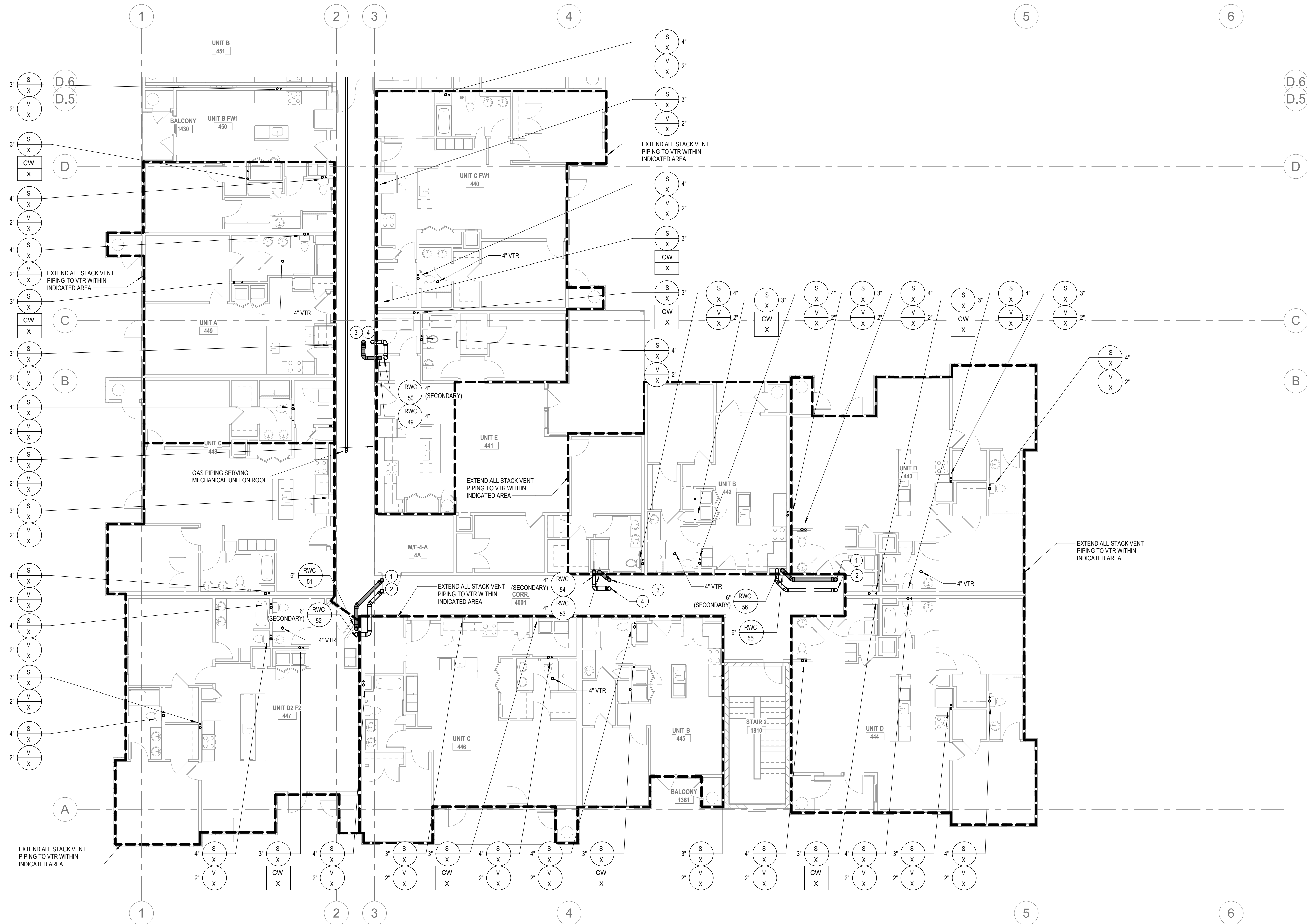
PLUMBING DRAWING NOTES

1. 6" RAINWATER CONDUCTOR FROM ABOVE.

2. 6" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.

3. 4" RAINWATER CONDUCTOR FROM ABOVE.

4. 4" SECONDARY RAINWATER CONDUCTOR FROM ABOVE.



2

PLUMBING - FOURTH FLOOR PLAN D

22.07D

1/8" = 1'-0"

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DRAWN BY: Author
PROJECT NO: 1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET 1 PERMIT SET	11/11/2022 12/20/2022

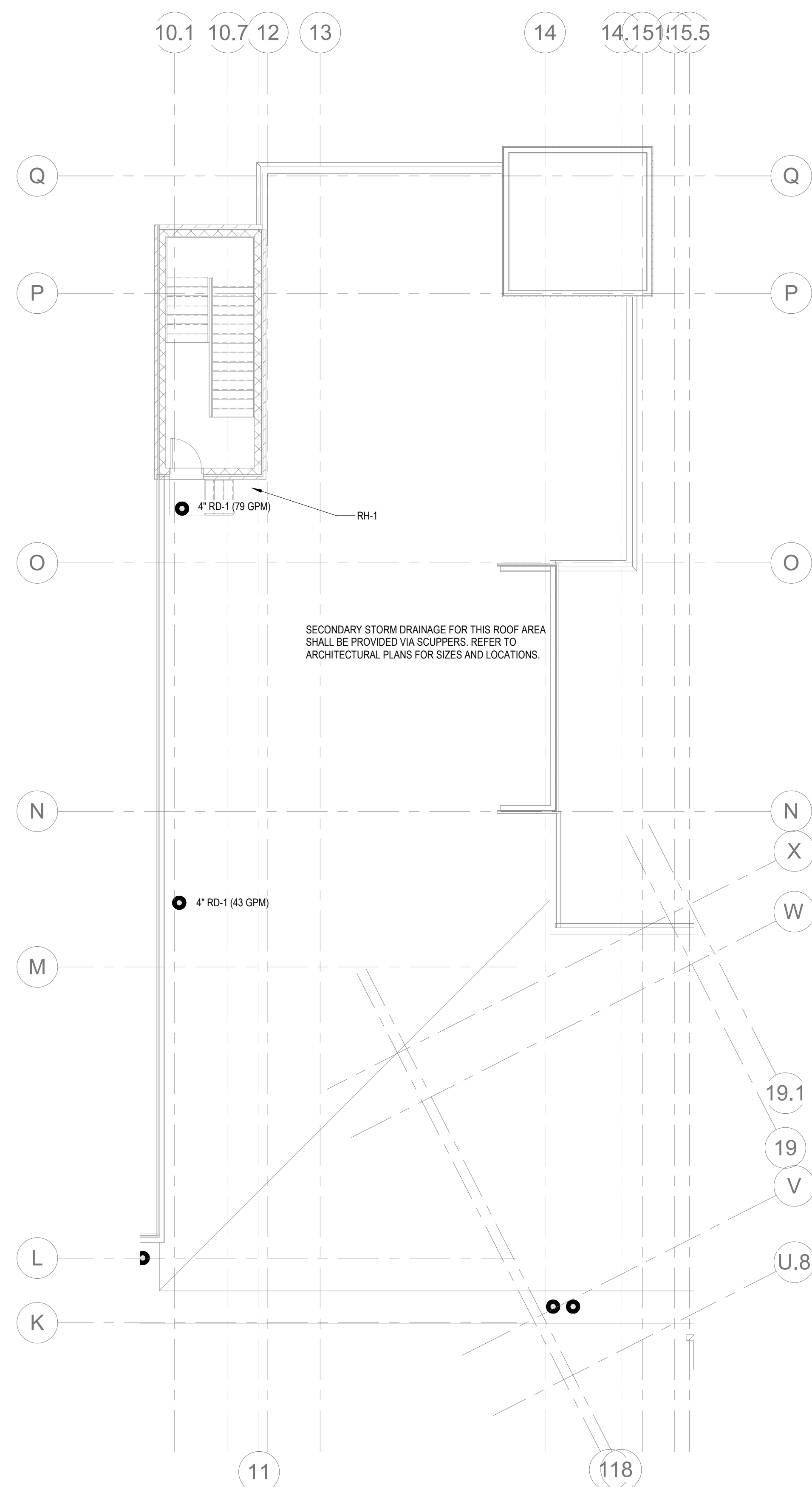
Project Status

PLUMBING - FOURTH FLOOR PLAN D

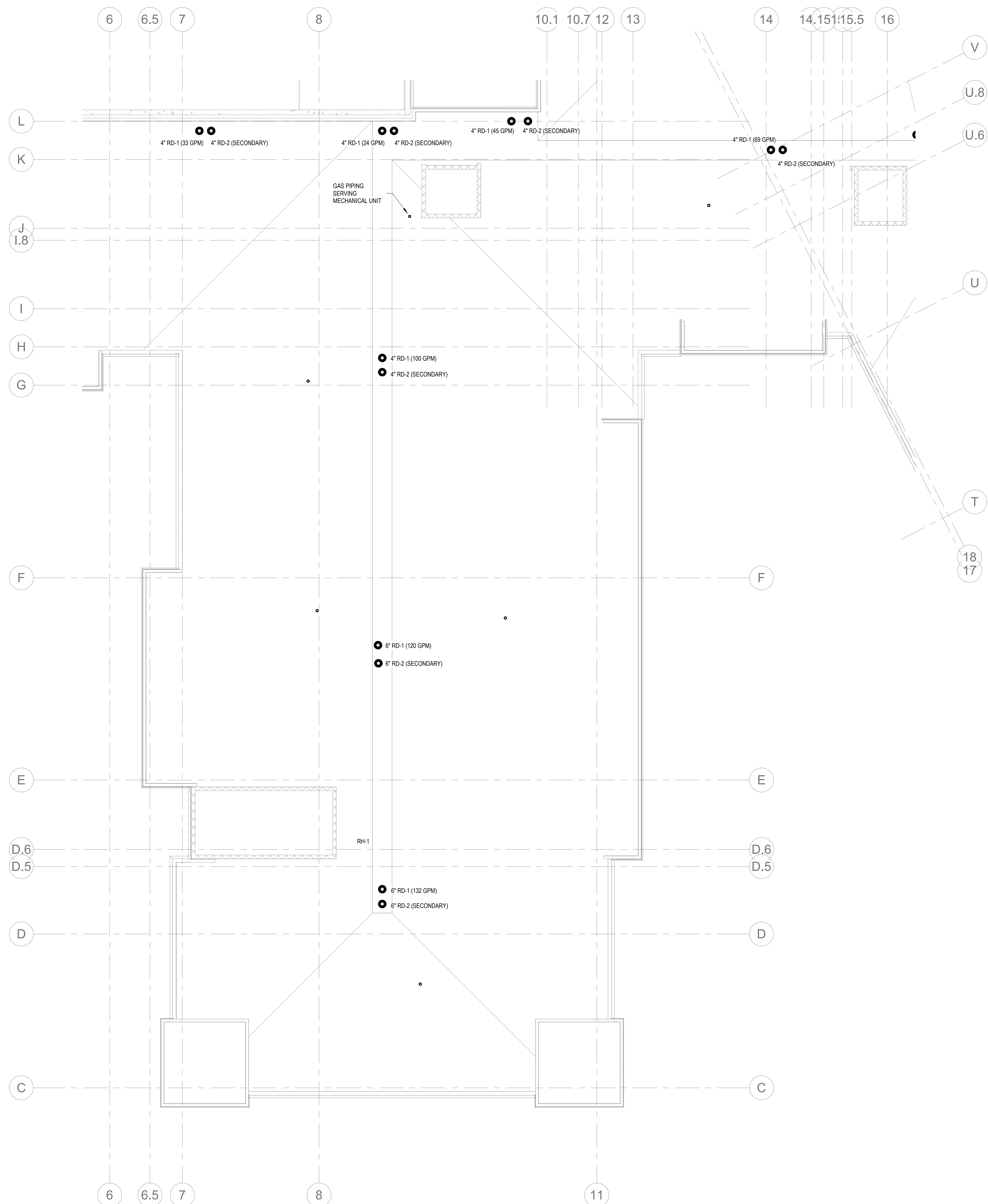
Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 08/19/22



PLUMBING - ROOF PLAN B2



2 PLUMBING - ROOF PLAN B1
P2.088 1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

[illegible]

Project Status

PLUMBING - ROOF PLAN B

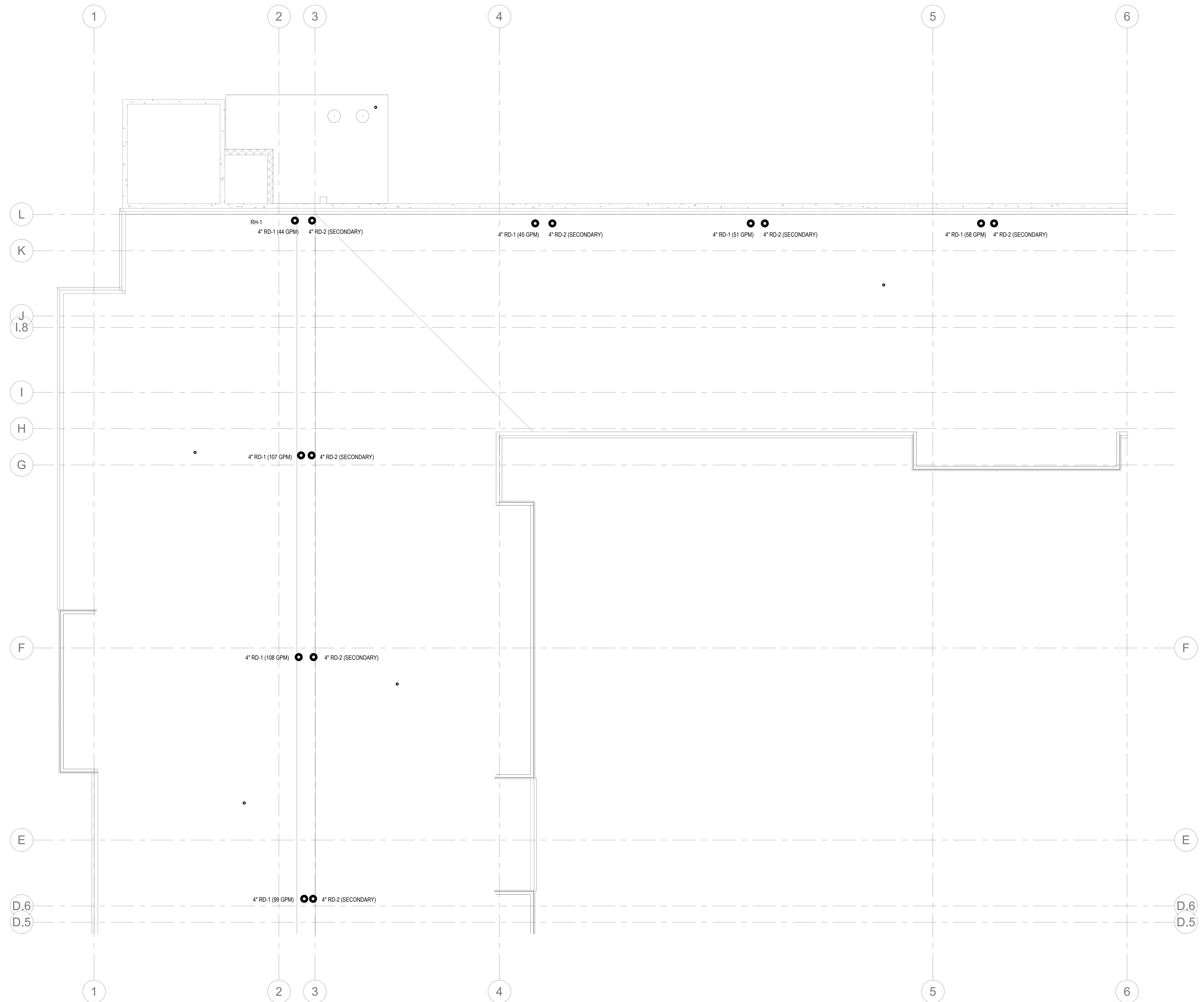
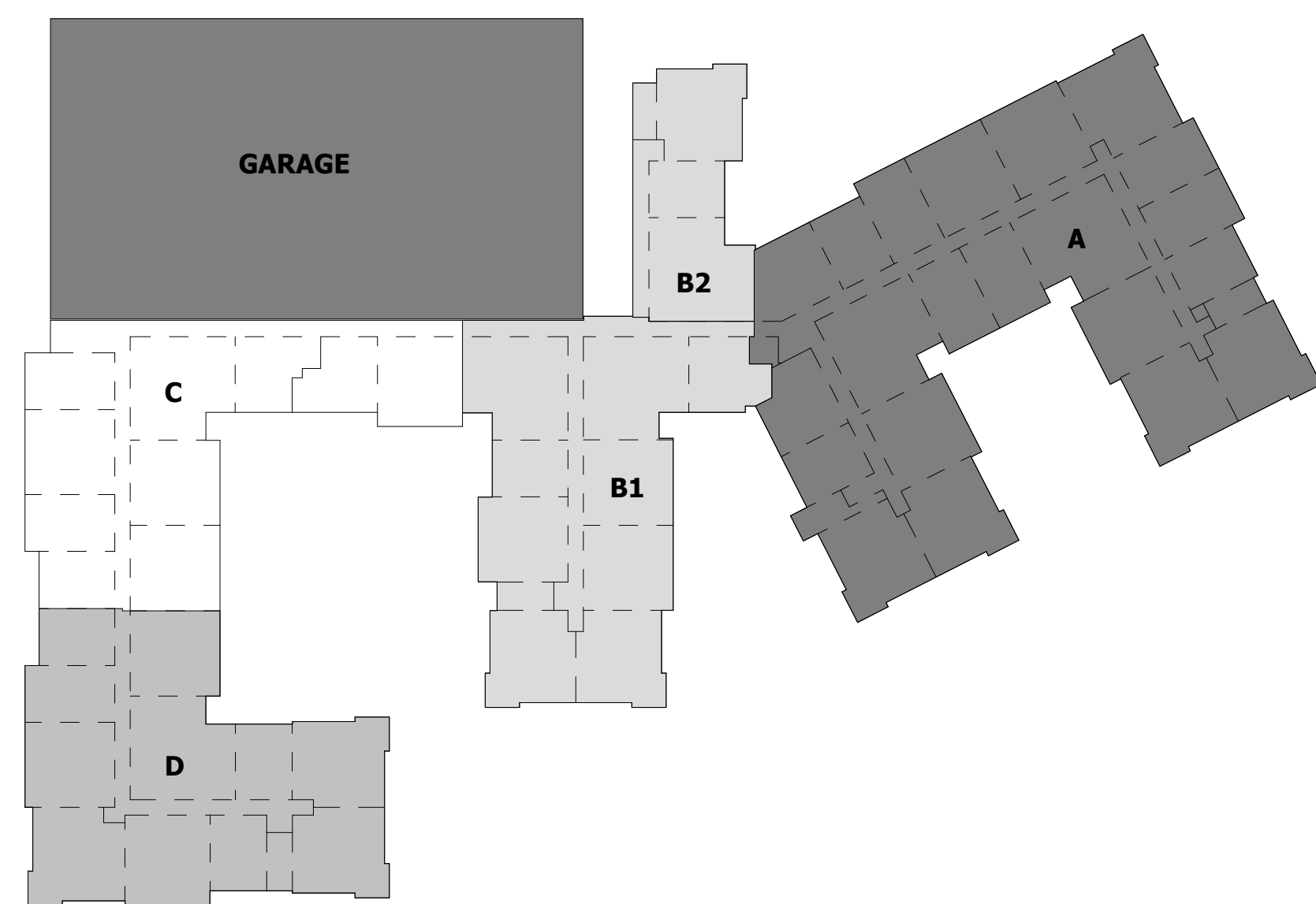
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED

DATE: 09/21/22

P2.08B

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1 PLUMBING - ROOF PLAN C
P2.08C 1/8" = 1'-0"

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M.:	TRT
RAWN BY:	Author
PROJECT NO:	1022747

[illegible]

Project Status

PLUMBING - ROOF PLAN C

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	09/21/22

2.08C
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PROJECT NO:	1022747

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Project Status

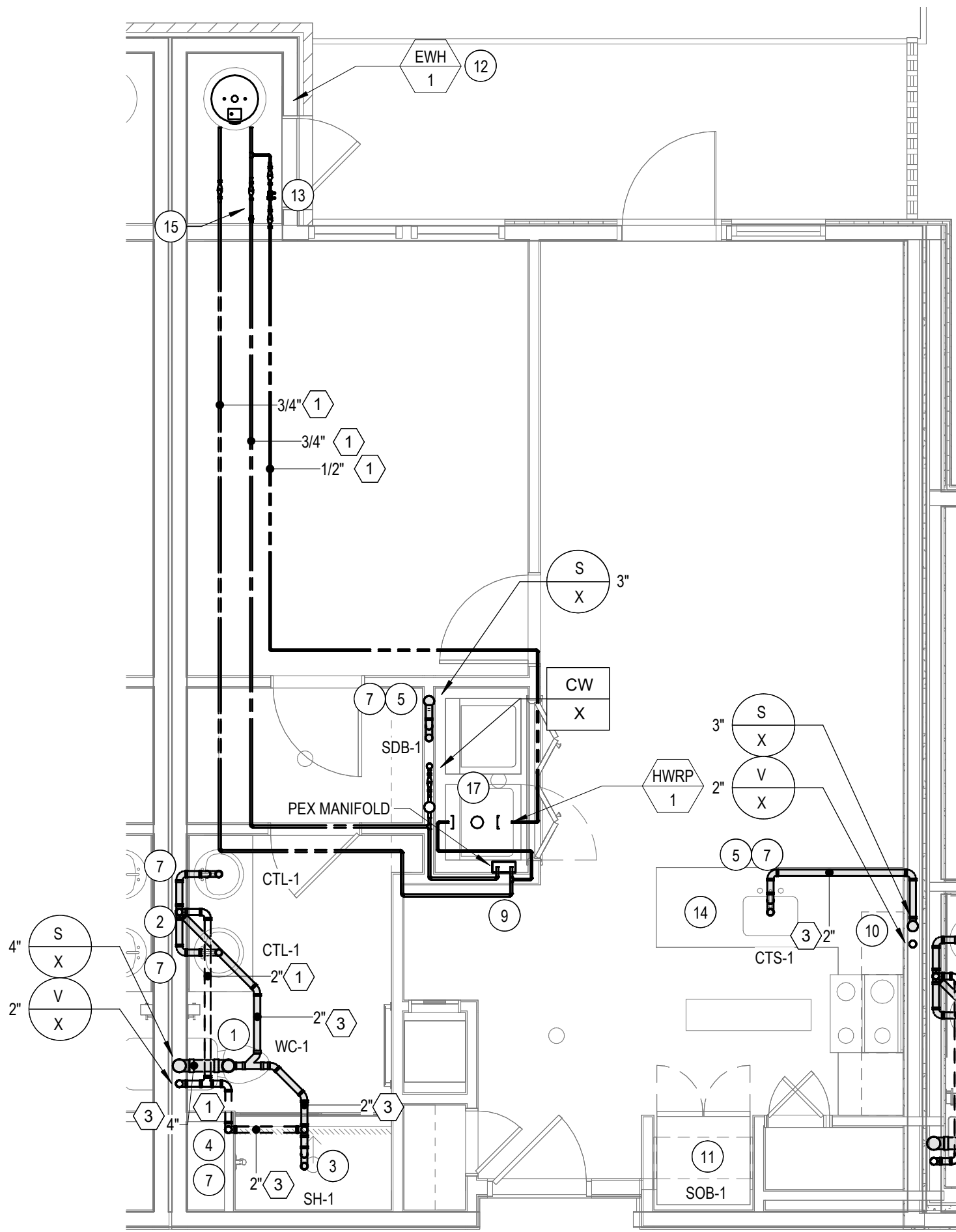
PLUMBING - ROOF PLAN D

MIDDLETOWN TOWNSHIP, PA

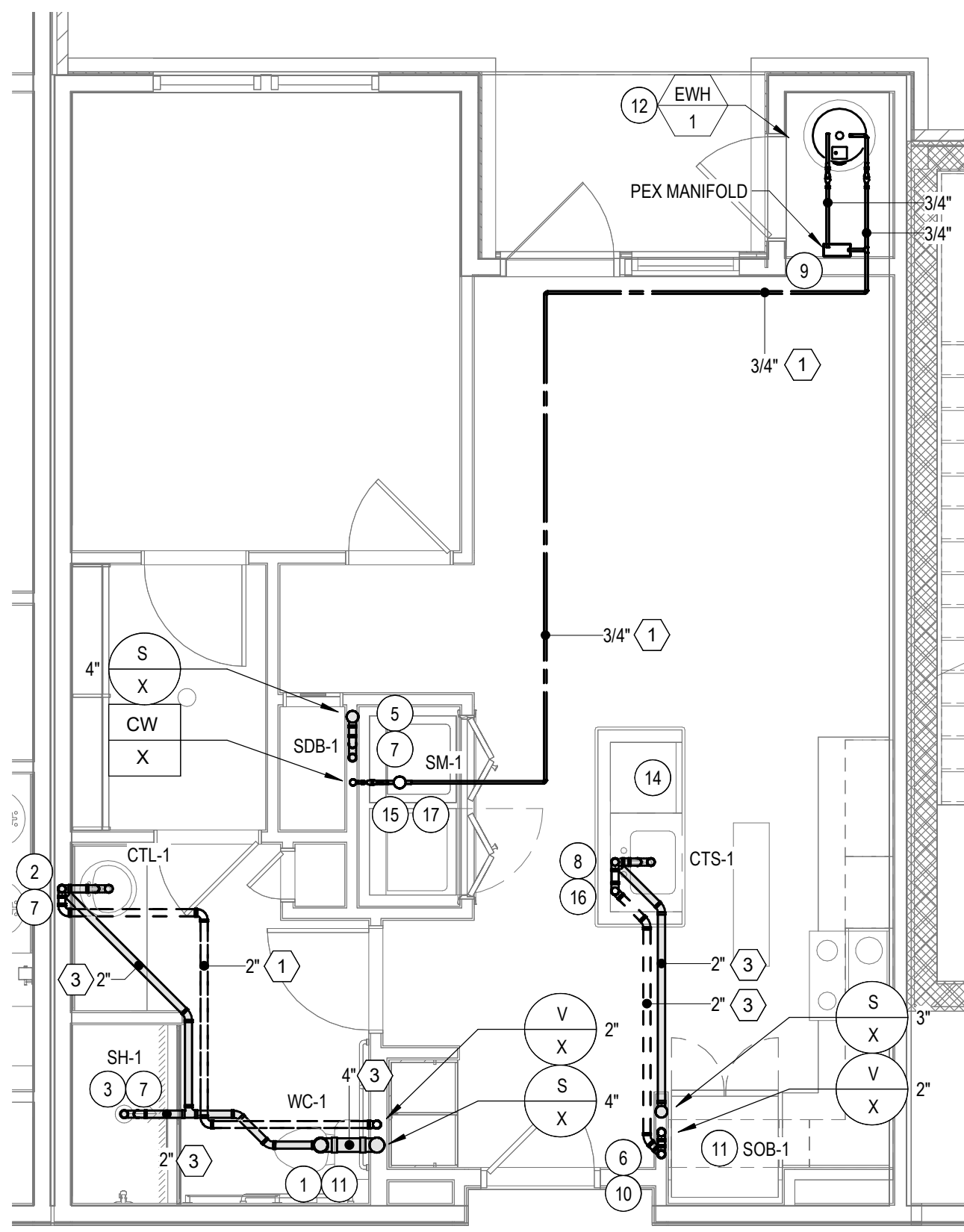
SCALE:	AS INDICATED
DATE:	09/21/22

P2.08D

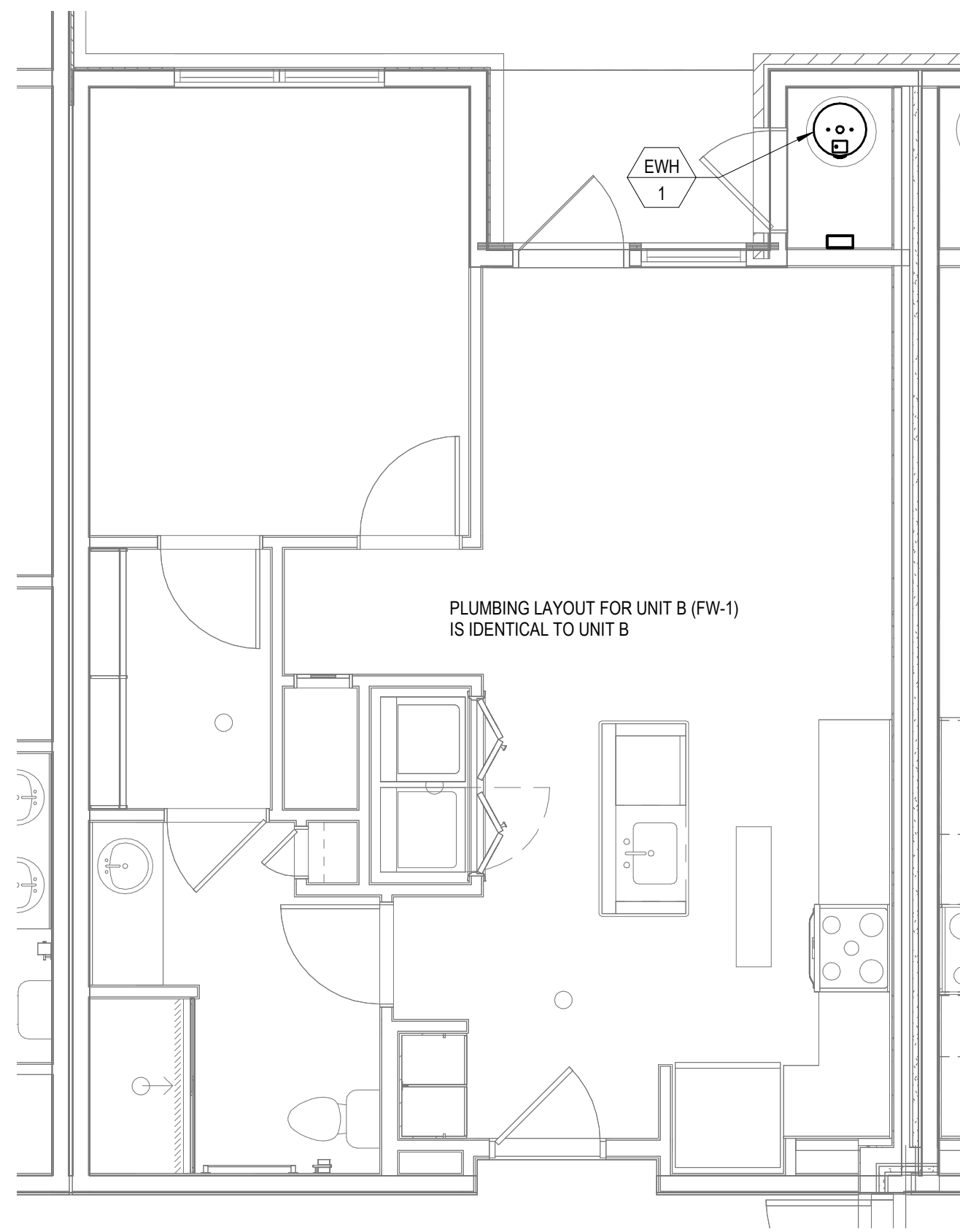
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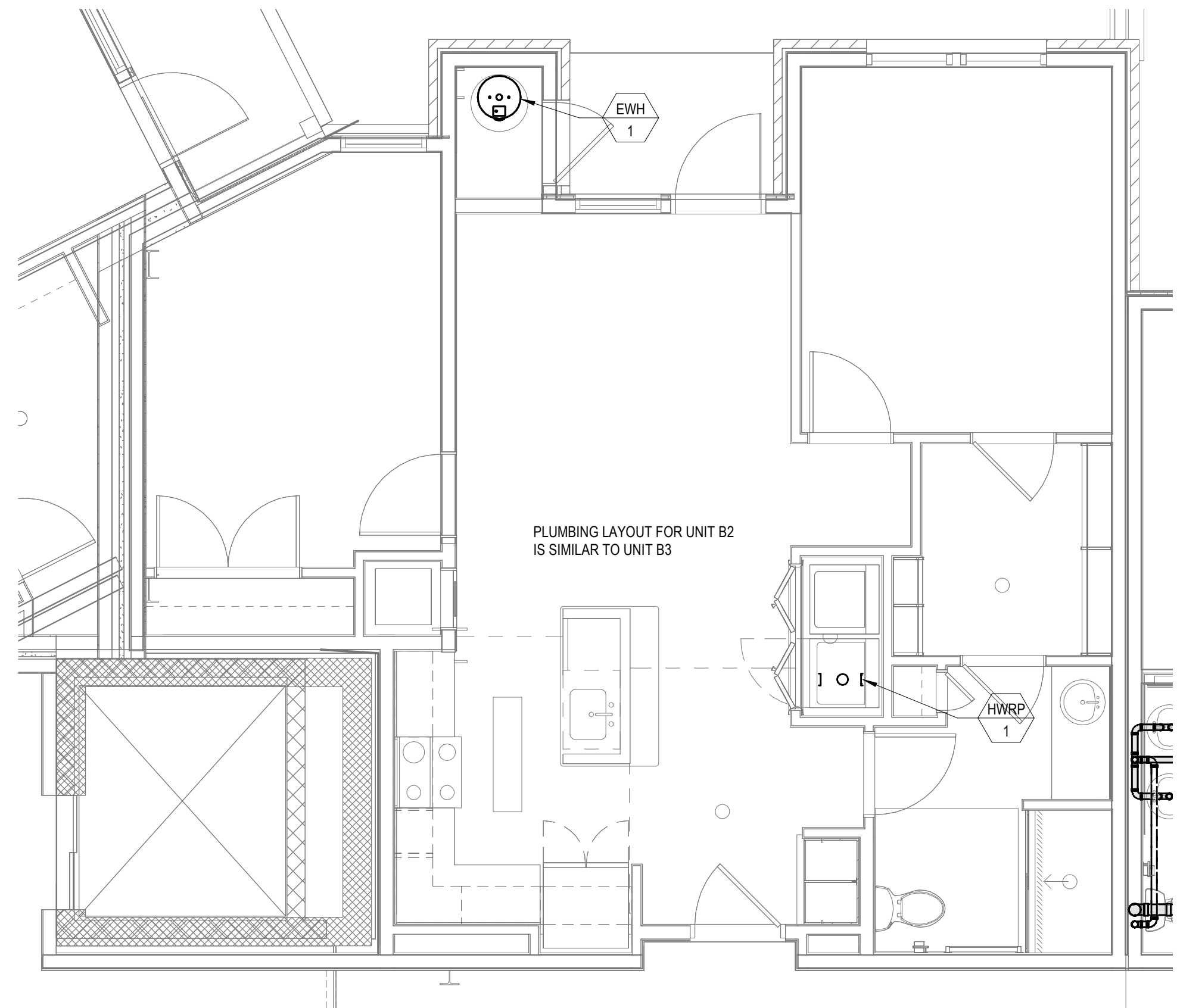
1 PLUMBING - UNIT - A PLAN
P6.01 1/4" = 1'-0"



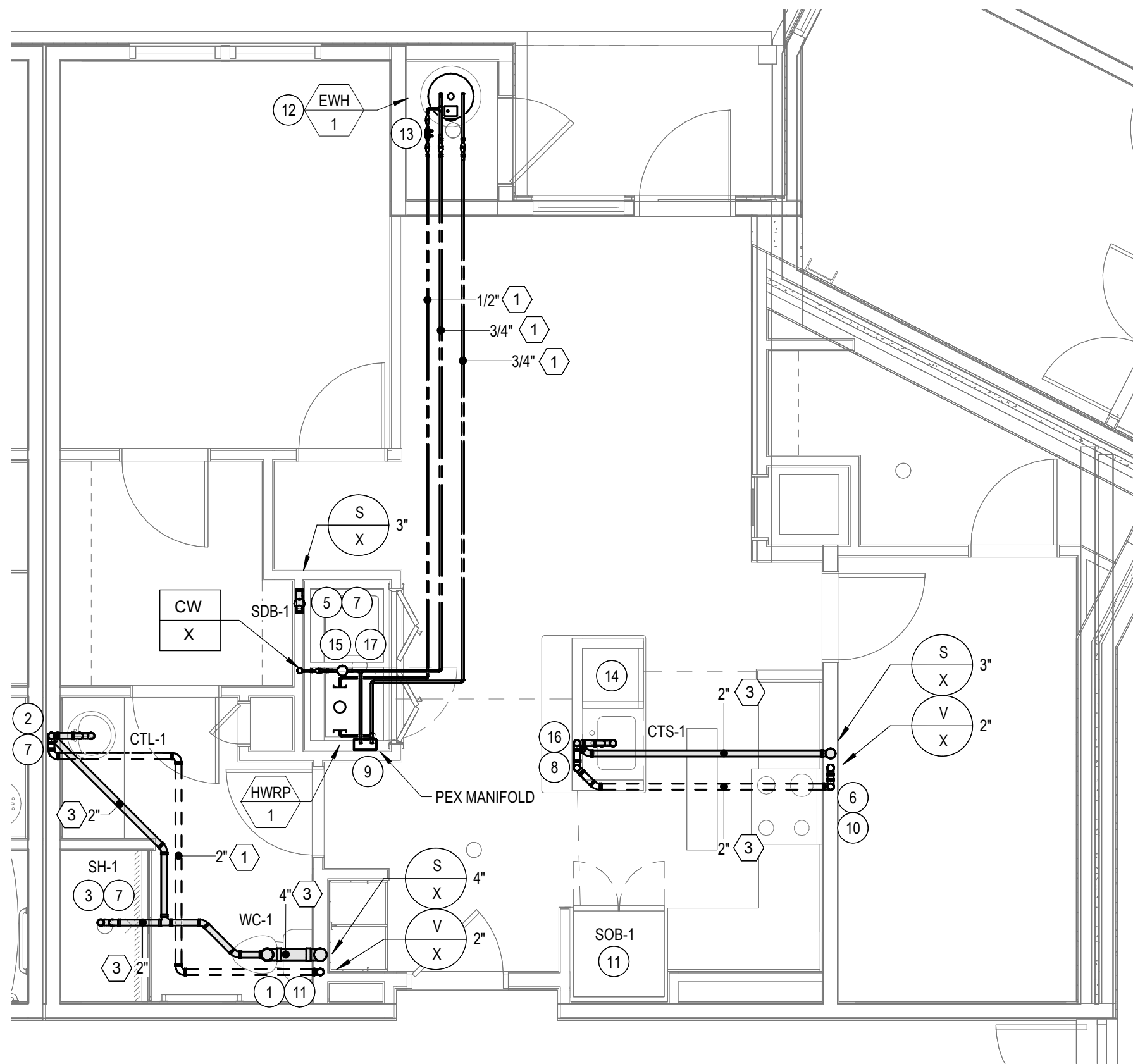
2 PLUMBING - UNIT - B PLAN
P6.01 1/4" = 1'-0"



3 PLUMBING - UNIT - B (FW-1) PLAN
P6.01 1/4" = 1'-0"



4 PLUMBING - UNIT - B2 PLAN
P6.01 1/4" = 1'-0"



5 PLUMBING - UNIT - B3 PLAN
P6.01 1/4" = 1'-0"

PLUMBING GENERAL NOTES

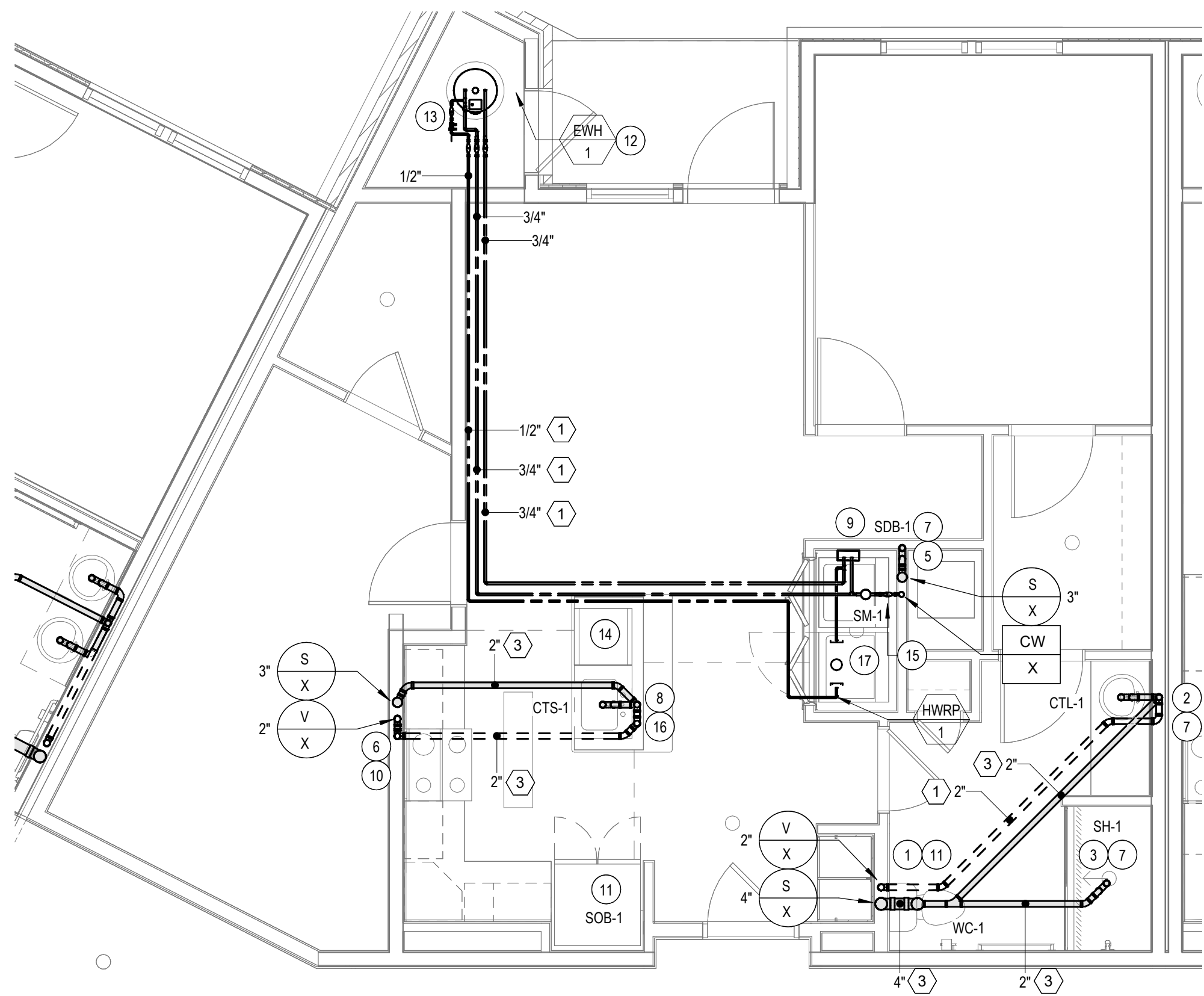
1. PLUMBING CONTRACTOR SHALL INSTALL DOMESTIC WATER SUBMETER IN EACH UNIT AT WATER SERVICE ENTRY INTO UNIT. SUBMETER SHALL BE FURNISHED BY OWNER.

PLUMBING DRAWING NOTES

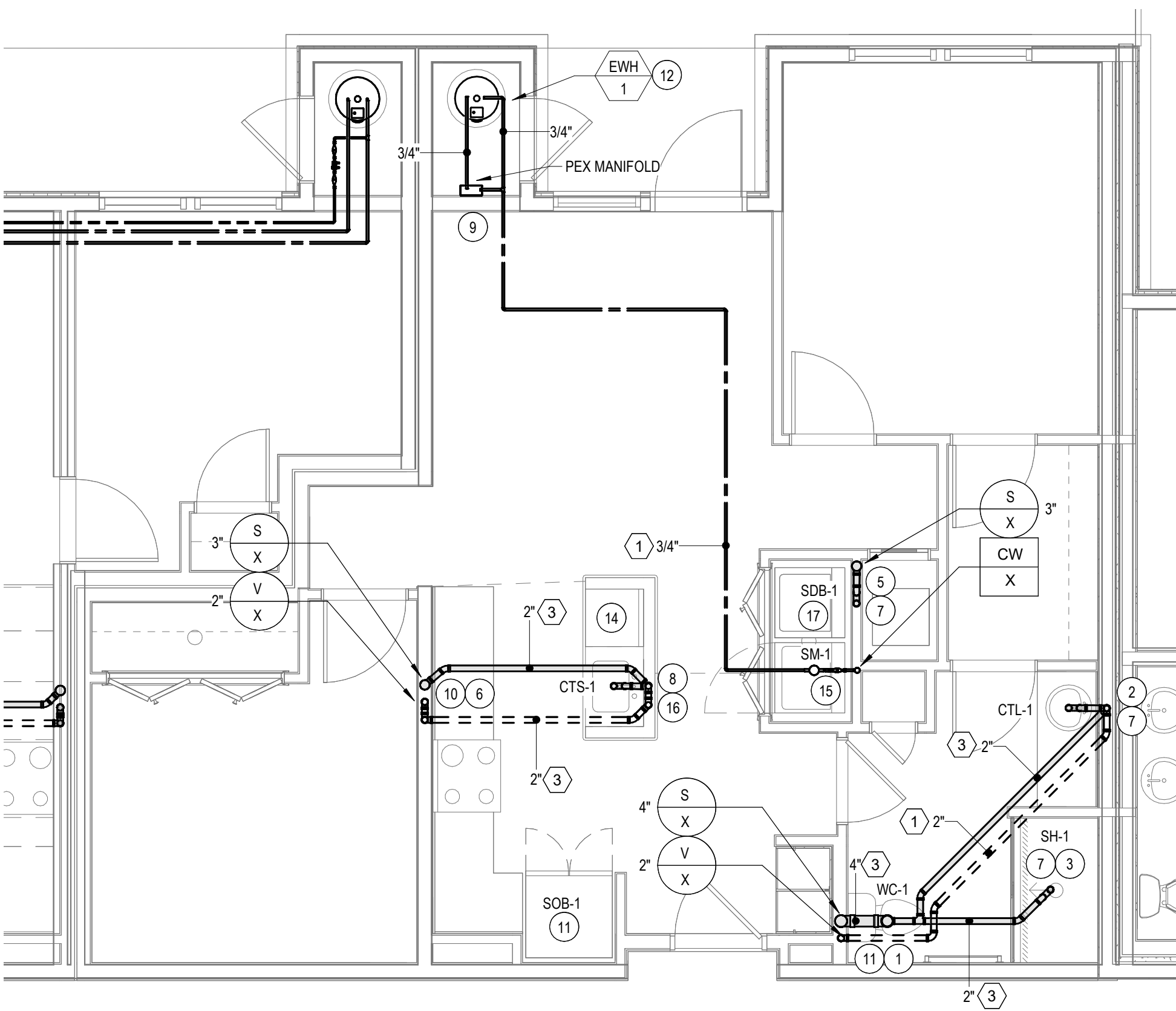
1. 4" SANITARY DOWN, 1/2" COLD WATER FROM PEX PIPNG MANIFOLD TO PLUMBING FIXTURE.
2. 2" SANITARY DOWN, 2" VENT RISE.
3. 2" SANITARY DOWN TO TRAP.
4. 2" VENT RISE.
5. 2" SANITARY TRAP TO SANITARY STACK.
6. 2" VENT DOWN, PROVIDE PIPING TO ISLAND SINK. SEE DETAIL 10/P0.31.
7. 1/2" HOT AND COLD WATER FROM PEX PIPNG MANIFOLD TO PLUMBING FIXTURE.
8. 2" SANITARY DOWN, 2" ISLAND SINK VENT. SEE DETAIL 10/P0.31.
9. 3/4" DOMESTIC HOT AND COLD WATER DROP TO PEX PIPNG MANIFOLD.
10. 1/2" DOMESTIC HOT AND COLD WATER DOWN FROM PEX PIPNG MANIFOLD.
11. 1/2" COLD WATER FROM PEX PIPNG MANIFOLD TO PLUMBING FIXTURE.
12. 3/4" COLD WATER DROP, 3/4" HOT WATER RISE. REFERENCE DETAIL 3/P0.31 FOR WATER HEATER PIPING ARRANGEMENT.
13. HOT WATER RETURN BALANCING VALVE ASSEMBLY.
14. 1/2" HOT WATER VALVED OUTLET TO DISHWASHER.
15. 3/4" COLD WATER TAP FROM COLD WATER RISER. PROVIDE ACCESS PANEL FOR UNIT ISOLATION VALVE. PROVIDE WATER SUB-METER FOR UNIT COLD WATER SUPPLY.
16. 1/2" DOMESTIC HOT AND COLD WATER PEX PIPNG FROM BELOW.
17. PROVIDE 1-1/2" WASHING MACHINE DRAIN PAN COLLECTION RISER IN LAUNDRY CLOSET. CONNECT DRAIN PAN TO RISER. RISER SHALL DISCHARGE INTO FUNNEL FLOOR DRAIN (FFD-1) ON LOWEST LEVEL WITH CODE-COMPLIANT AIR GAP. DRAIN PAN SHALL BE FURNISHED BY GENERAL CONTRACTOR.
18. PROVIDE 1-1/2" WATER HEATER DRAIN PAN COLLECTION RISER IN WATER HEATER CLOSET. CONNECT DRAIN PAN TO RISER. RISER SHALL DISCHARGE INTO FUNNEL FLOOR DRAIN (FFD-1) ON LOWEST LEVEL WITH CODE-COMPLIANT AIR GAP.

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/11/2022
1	PERMIT SET	12/20/2022

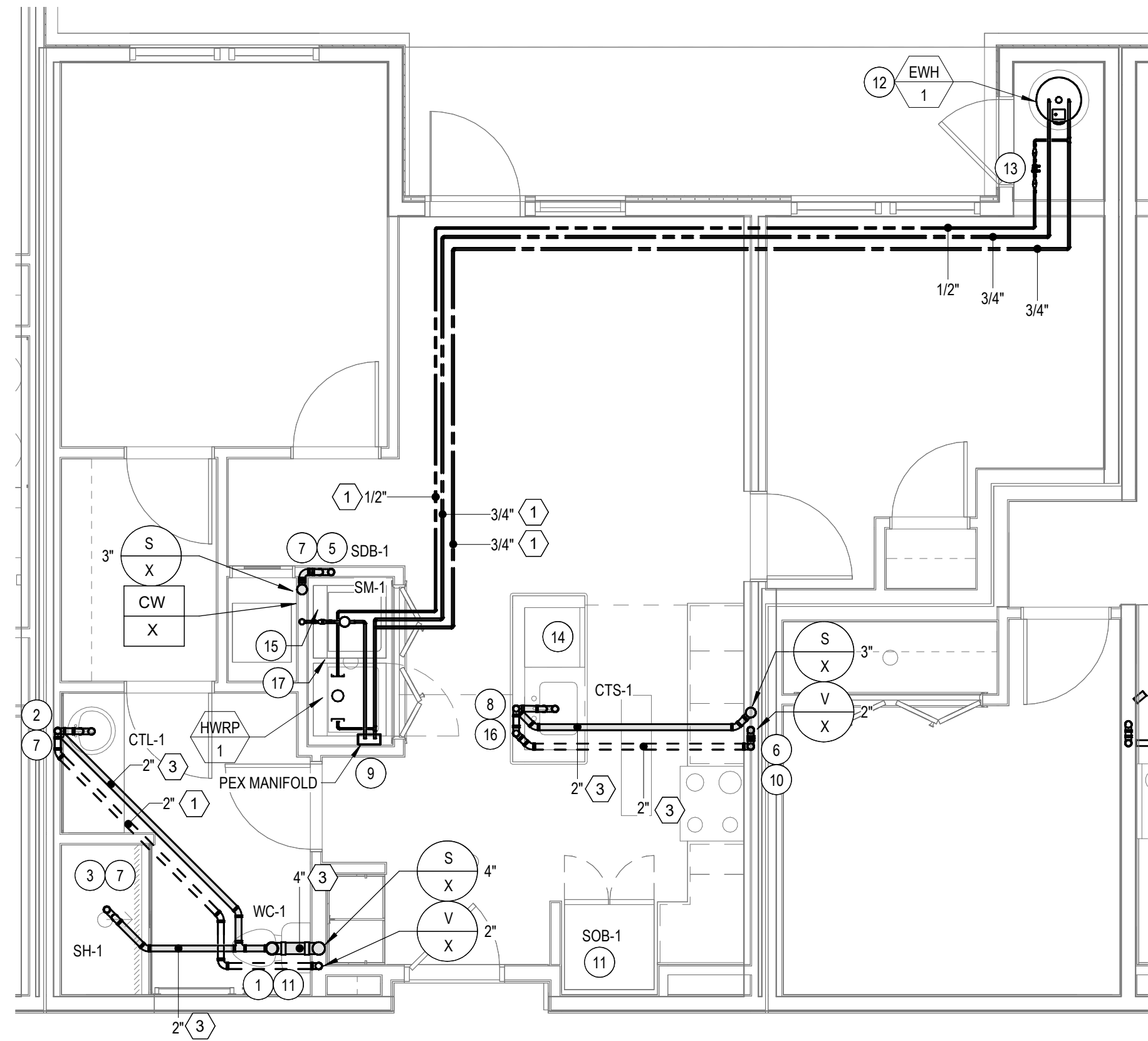
Project Status



1 PLUMBING - UNIT - B4 PLAN
P6.02 1/4\" = 1'-0"



2 PLUMBING - UNIT - B5 PLAN
P6.02 1/4\" = 1'-0"



3 PLUMBING - UNIT - B6 PLAN
P6.02 1/4\" = 1'-0"

PLUMBING GENERAL NOTES

1. PLUMBING CONTRACTOR SHALL INSTALL DOMESTIC WATER SUBMETER IN EACH UNIT AT WATER SERVICE ENTRY INTO UNIT. SUBMETER SHALL BE FURNISHED BY OWNER.

PLUMBING DRAWING NOTES

1. 4\" SANITARY DOWN, 1/2\" COLD WATER FROM PEX PIPNG MANIFOLD TO PLUMBING FIXTURE.
2. 2\" SANITARY DOWN, 2\" VENT RISE.
3. 2\" SANITARY DOWN TO TRAP.
4. 2\" VENT RISE.
5. 2\" SANITARY TRAP TO SANITARY STACK.
6. 2\" VENT DOWN, PROVIDE PIPING TO ISLAND SINK. SEE DETAIL 10/P0.31.
7. 1/2\" HOT AND COLD WATER FROM PEX PIPNG MANIFOLD TO PLUMBING FIXTURE.
8. 2\" SANITARY DOWN, 2\" ISLAND SINK VENT. SEE DETAIL 10/P0.31.
9. 3/4\" DOMESTIC HOT AND COLD WATER DROP TO PEX PIPNG MANIFOLD.
10. 1/2\" DOMESTIC HOT AND COLD WATER DOWN FROM PEX PIPNG MANIFOLD.
11. 1/2\" COLD WATER FROM PEX PIPNG MANIFOLD TO PLUMBING FIXTURE.
12. 3/4\" COLD WATER DROP, 3/4\" HOT WATER RISE. REFERENCE DETAIL 3/P0.31 FOR WATER HEATER PIPING ARRANGEMENT.
13. HOT WATER RETURN BALANCING VALVE ASSEMBLY.
14. 1/2\" HOT WATER VALVED OUTLET TO DISHWASHER.
15. 3/4\" COLD WATER TAP FROM COLD WATER RISER. PROVIDE ACCESS PANEL FOR UNIT ISOLATION VALVE. PROVIDE WATER SUB-METER FOR UNIT COLD WATER SUPPLY.
16. 1/2\" DOMESTIC HOT AND COLD WATER PEX PIPING FROM BELOW.

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P.A.: JTG
P.M.: TRT
DRAWN BY: Author
PROJECT NO: 1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

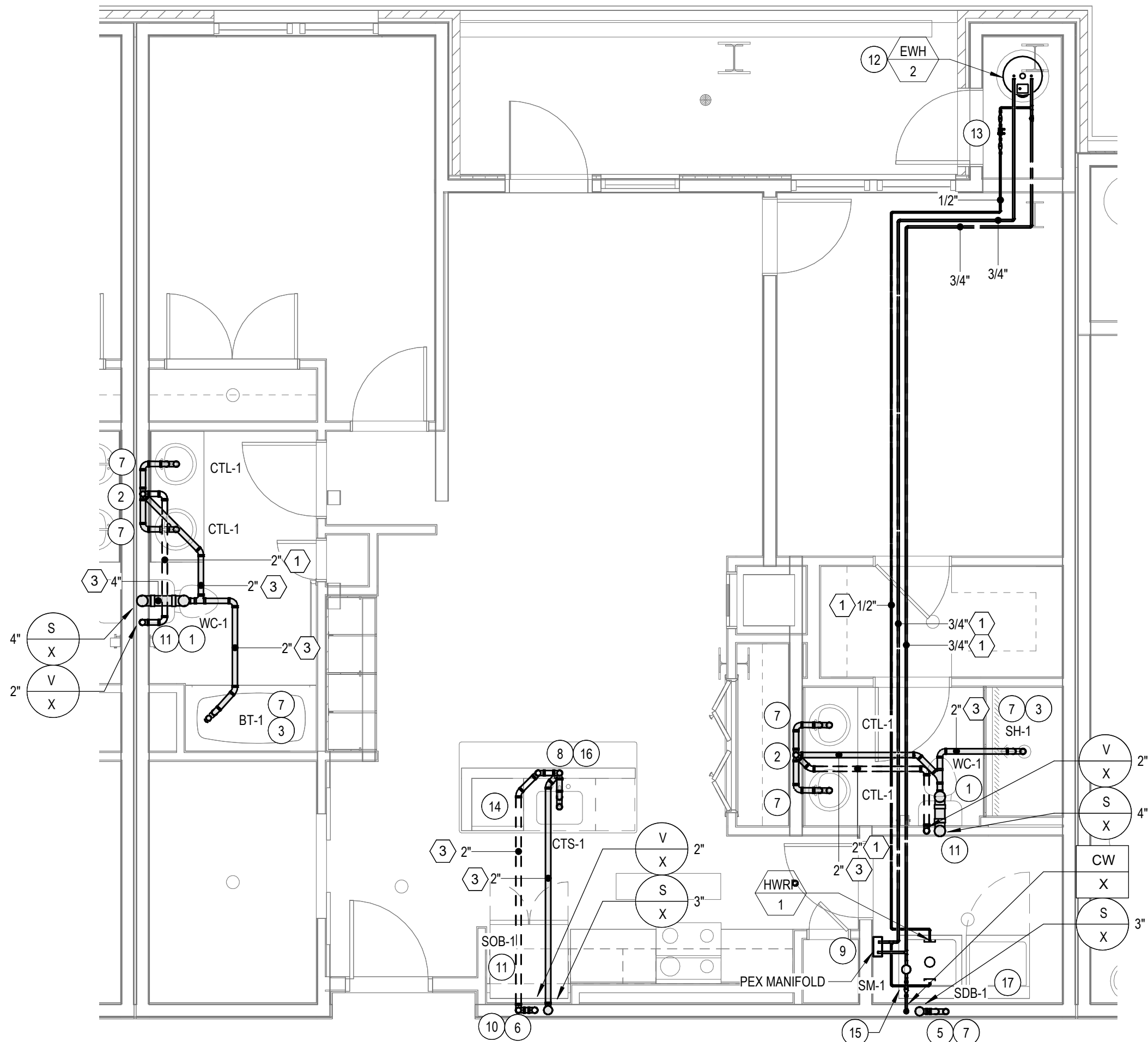
Project Status

PLUMBING - UNIT PLANS
Granite Run Apartments

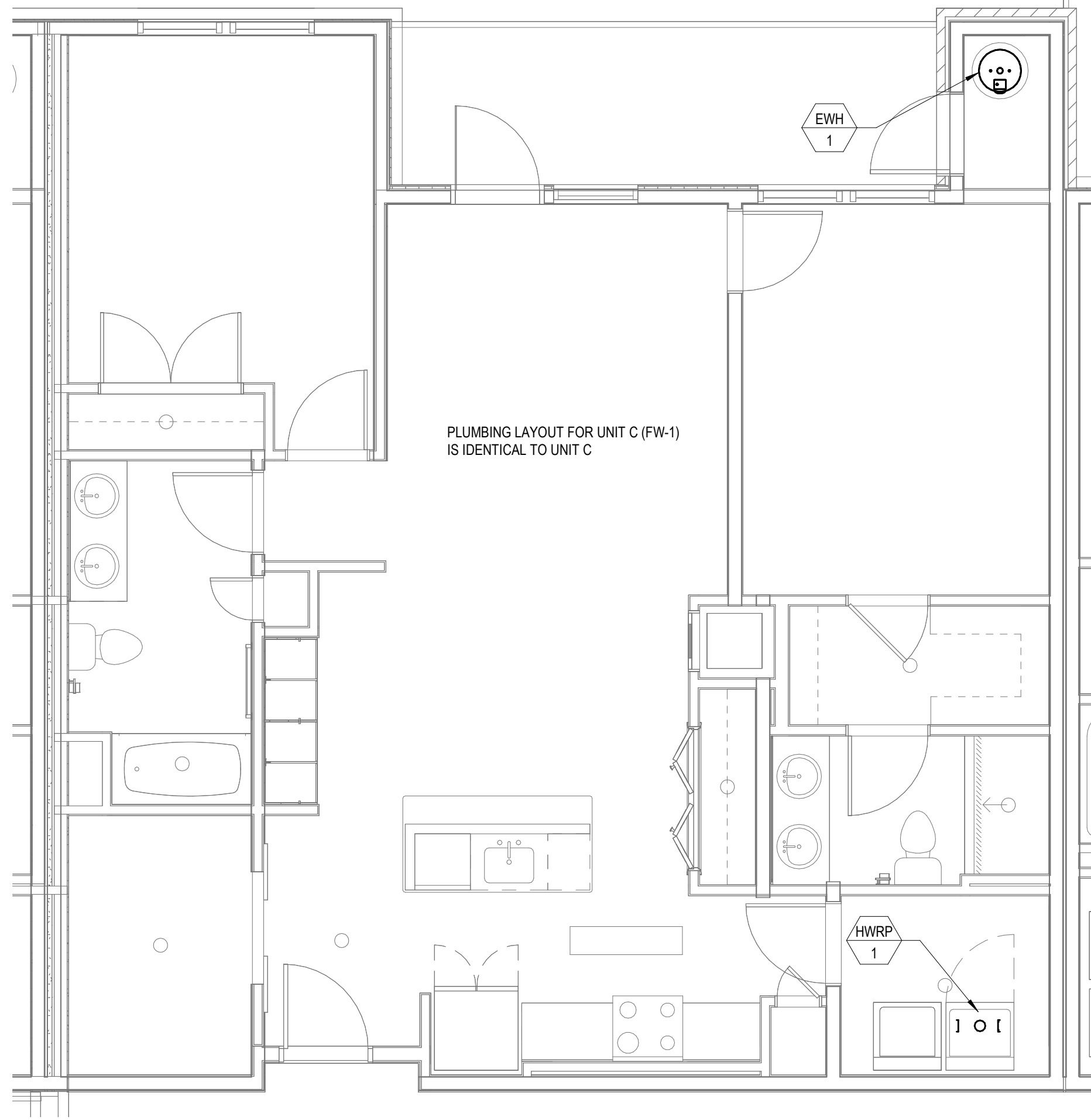
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 10/12/22

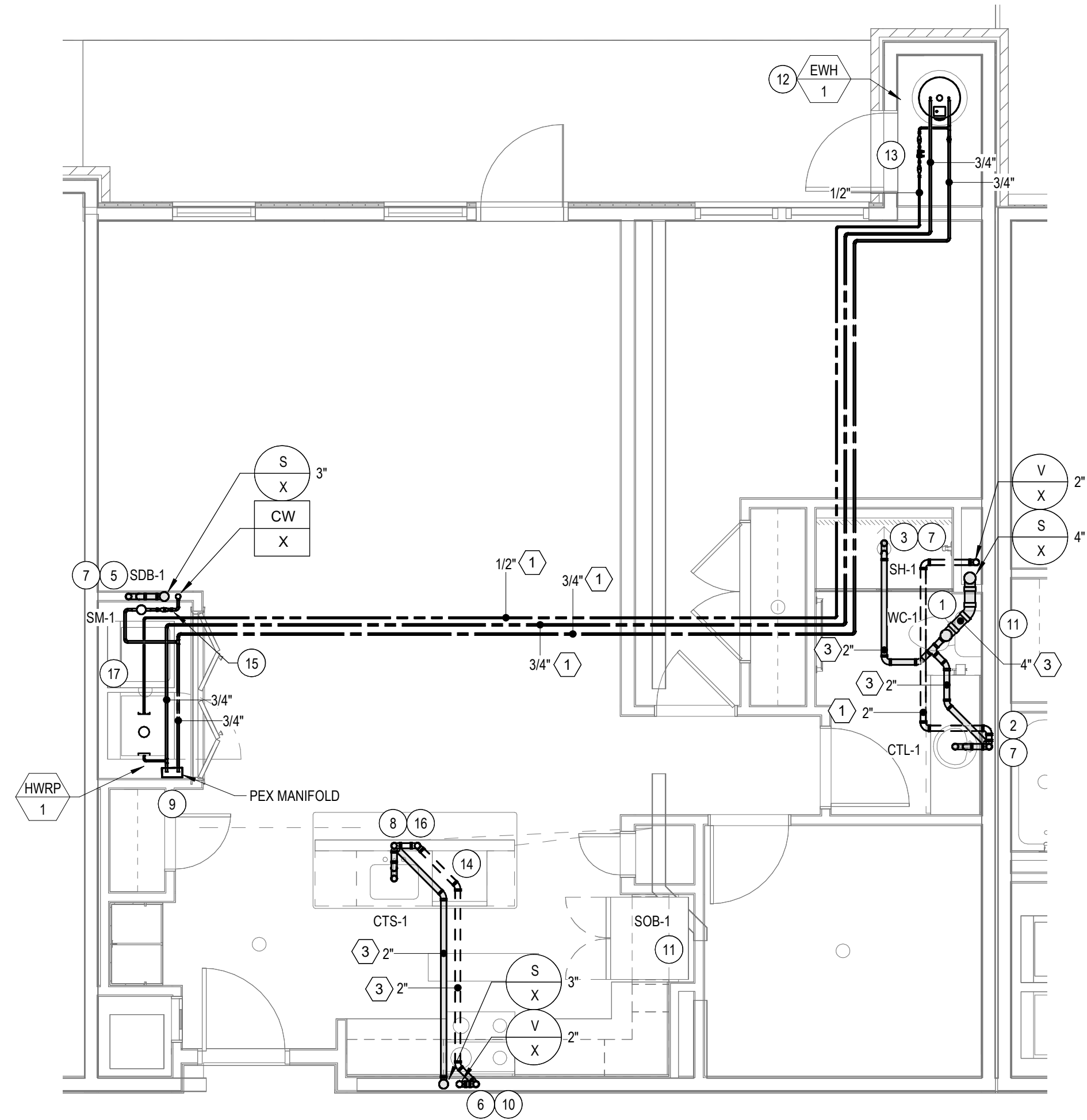
P6.02
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1 PLUMBING - UNIT - C PLAN
P6.03 1/4" = 1'-0"



2 PLUMBING - UNIT - C (FW-1) PLAN
P6.03 1/4" = 1'-0"



3 PLUMBING - UNIT - C2 PLAN
P6.03 1/4" = 1'-0"

PLUMBING GENERAL NOTES

- PLUMBING CONTRACTOR SHALL INSTALL DOMESTIC WATER SUBMETER IN EACH UNIT AT WATER SERVICE ENTRY INTO UNIT. SUBMETER SHALL BE FURNISHED BY OWNER.

PLUMBING DRAWING NOTES

- 4" SANITARY DOWN, 1/2" COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
- 2" SANITARY DOWN, 2" VENT RISE.
- 2" SANITARY DOWN TO TRAP.
- 2" VENT RISE.
- 2" SANITARY TRAP TO SANITARY STACK.
- 2" VENT DOWN, PROVIDE PIPING TO ISLAND SINK. SEE DETAIL 10/P0.31.
- 1/2" HOT AND COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
- 2" SANITARY DOWN, 2" ISLAND SINK VENT. SEE DETAIL 10/P0.31.
- 3/4" DOMESTIC HOT AND COLD WATER DROP TO PEX PIPING MANIFOLD.
- 1/2" DOMESTIC HOT AND COLD WATER DOWN FROM PEX PIPING MANIFOLD.
- 1/2" COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
- 3/4" COLD WATER DROP, 3/4" HOT WATER RISE. REFERENCE DETAIL 3/P0.31 FOR WATER HEATER PIPING ARRANGEMENT.
- HOT WATER RETURN BALANCING VALVE ASSEMBLY.
- 1/2" HOT WATER VALVED OUTLET TO DISHWASHER.
- 3/4" COLD WATER TAP FROM COLD WATER RISER. PROVIDE ACCESS PANEL FOR UNIT ISOLATION VALVE. PROVIDE WATER SUB-METER FOR UNIT COLD WATER SUPPLY.
- 1/2" DOMESTIC HOT AND COLD WATER PEX PIPING FROM BELOW.

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PROJECT NO: 1022747

NO.	REVISION	DATE
1	ISSUE FOR SEPARATE BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

PLUMBING - UNIT PLANS
Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 10/12/22

P6.03
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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

PLUMBING - UNIT PLANS
Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 10/12/22

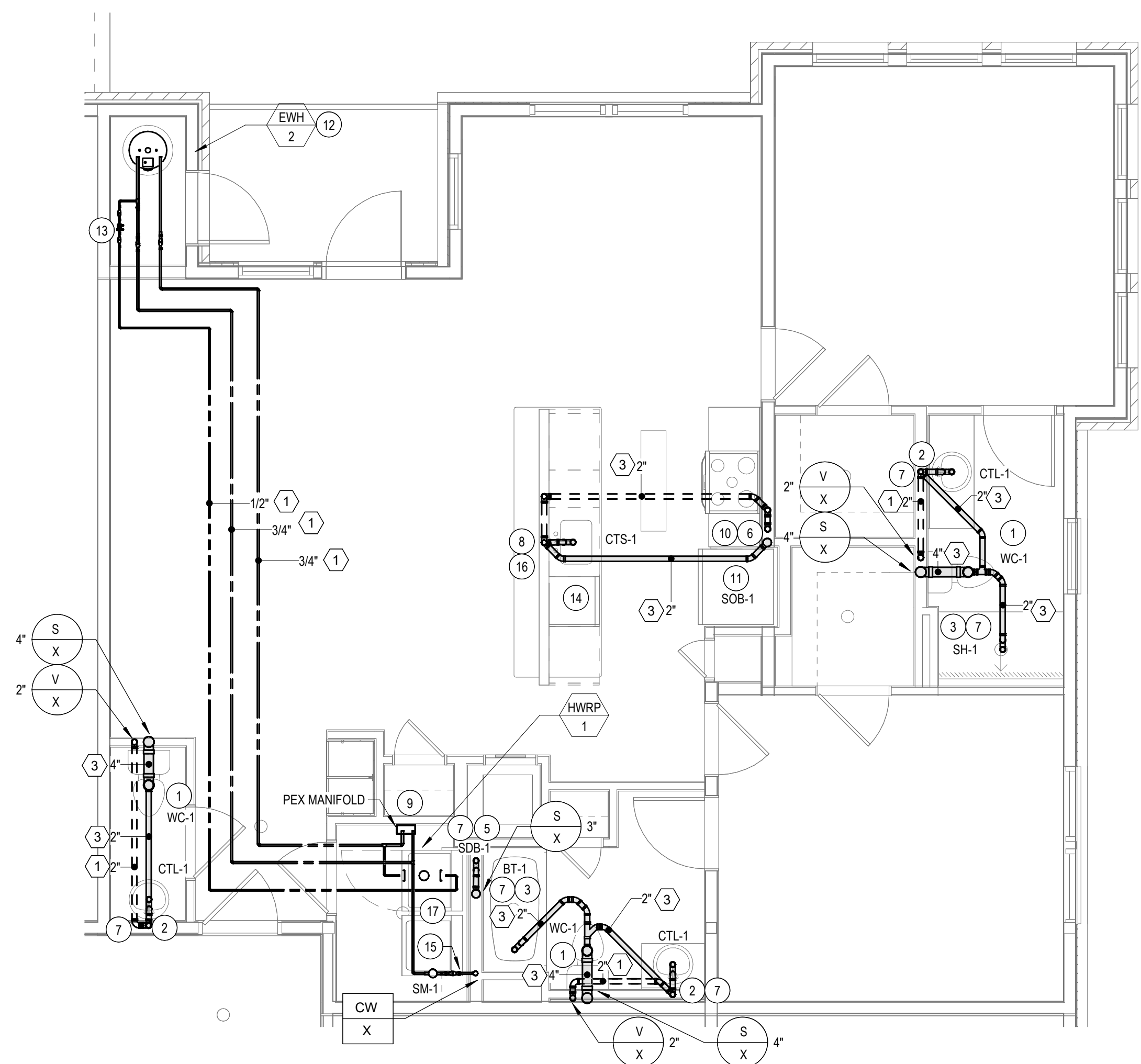
P6.04
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PLUMBING GENERAL NOTES

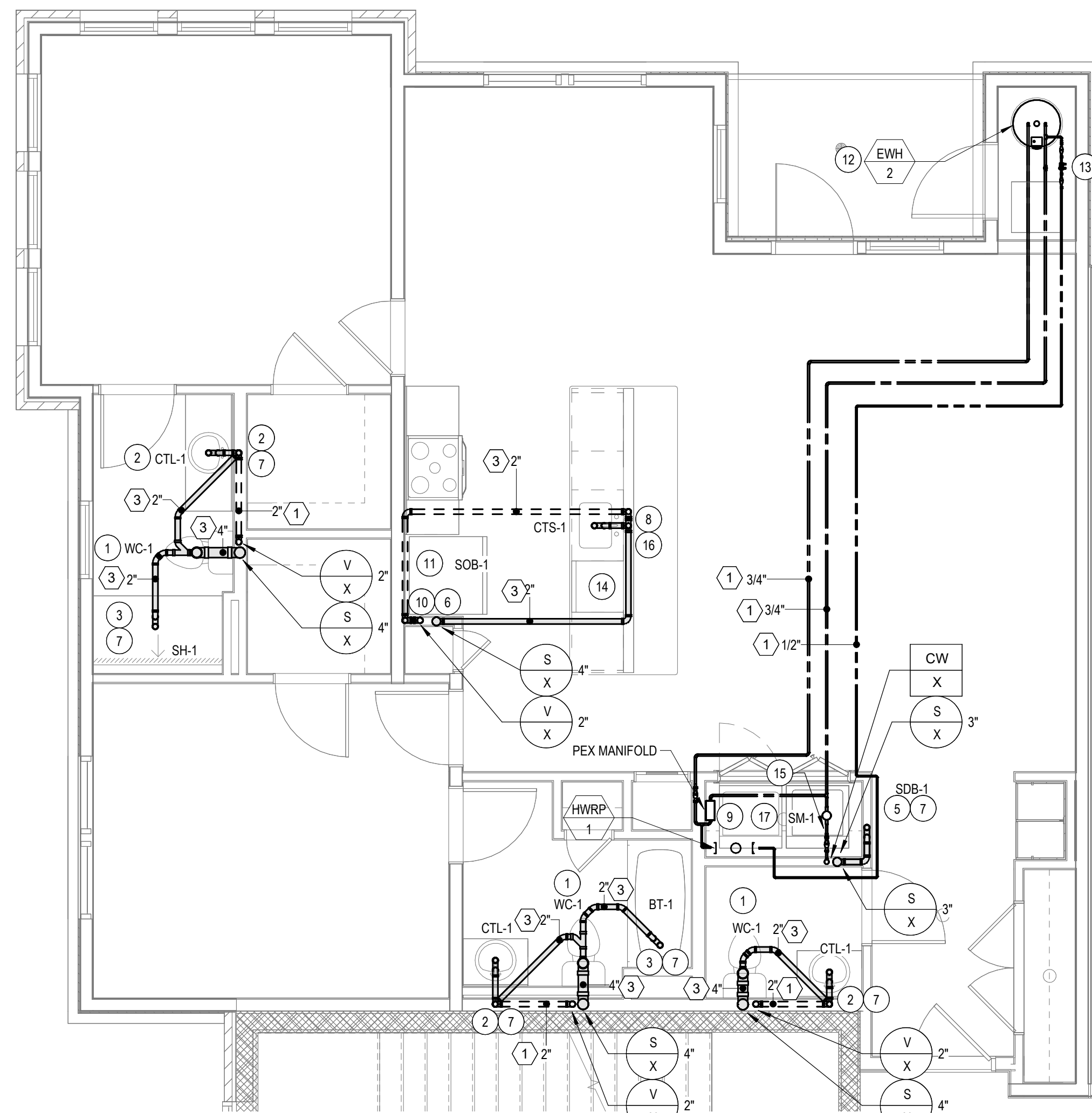
1. PLUMBING CONTRACTOR SHALL INSTALL DOMESTIC WATER SUBMETER IN EACH UNIT AT WATER SERVICE ENTRY INTO UNIT. SUBMETER SHALL BE FURNISHED BY OWNER.

PLUMBING DRAWING NOTES

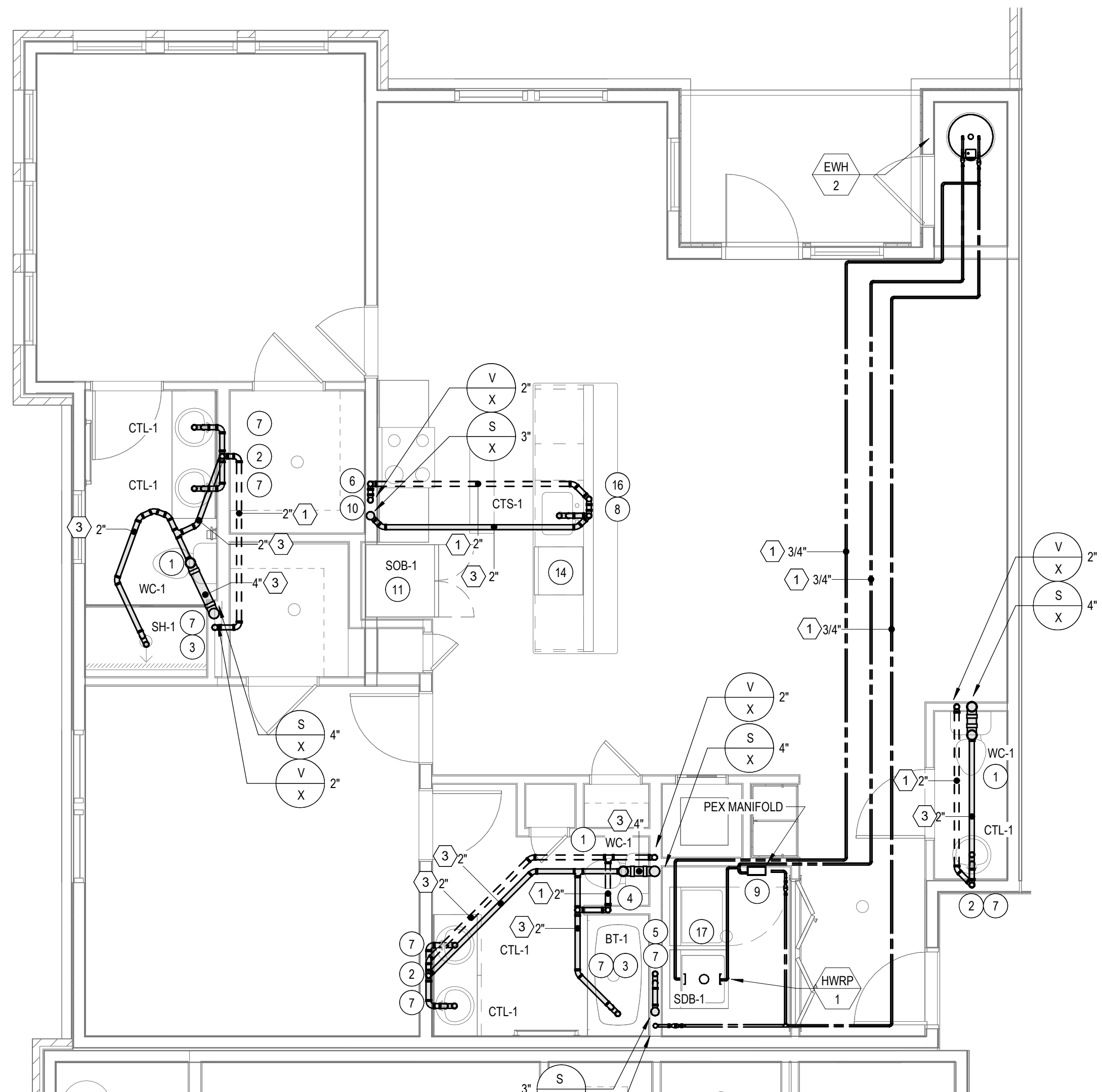
1. 4" SANITARY DOWN, 1/2" COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
2. 2" SANITARY DOWN, 2" VENT RISE.
3. 2" SANITARY DOWN TO TRAP.
4. 2" VENT RISE.
5. 2" SANITARY TRAP TO SANITARY STACK.
6. 2" VENT DOWN, PROVIDE PIPING TO ISLAND SINK. SEE DETAIL 10P0.31.
7. 1/2" HOT AND COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
8. 2" SANITARY DOWN, 2" ISLAND SINK VENT. SEE DETAIL 10P0.31.
9. 3/4" DOMESTIC HOT AND COLD WATER DROP TO PEX PIPING MANIFOLD.
10. 1/2" DOMESTIC HOT AND COLD WATER DOWN FROM PEX PIPING MANIFOLD.
11. 1/2" COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
12. 3/4" COLD WATER DROP, 3/4" HOT WATER RISE. REFERENCE DETAIL 3P0.31 FOR WATER HEATER PIPING ARRANGEMENT.
13. HOT WATER RETURN BALANCING VALVE ASSEMBLY.
14. 1/2" HOT WATER VALVED OUTLET TO DISHWASHER.
15. 3/4" COLD WATER TAP FROM COLD WATER RISER. PROVIDE ACCESS PANEL FOR UNIT ISOLATION VALVE. PROVIDE WATER SUB-METER FOR UNIT COLD WATER SUPPLY.
16. 1/2" DOMESTIC HOT AND COLD WATER PEX PIPING FROM BELOW.



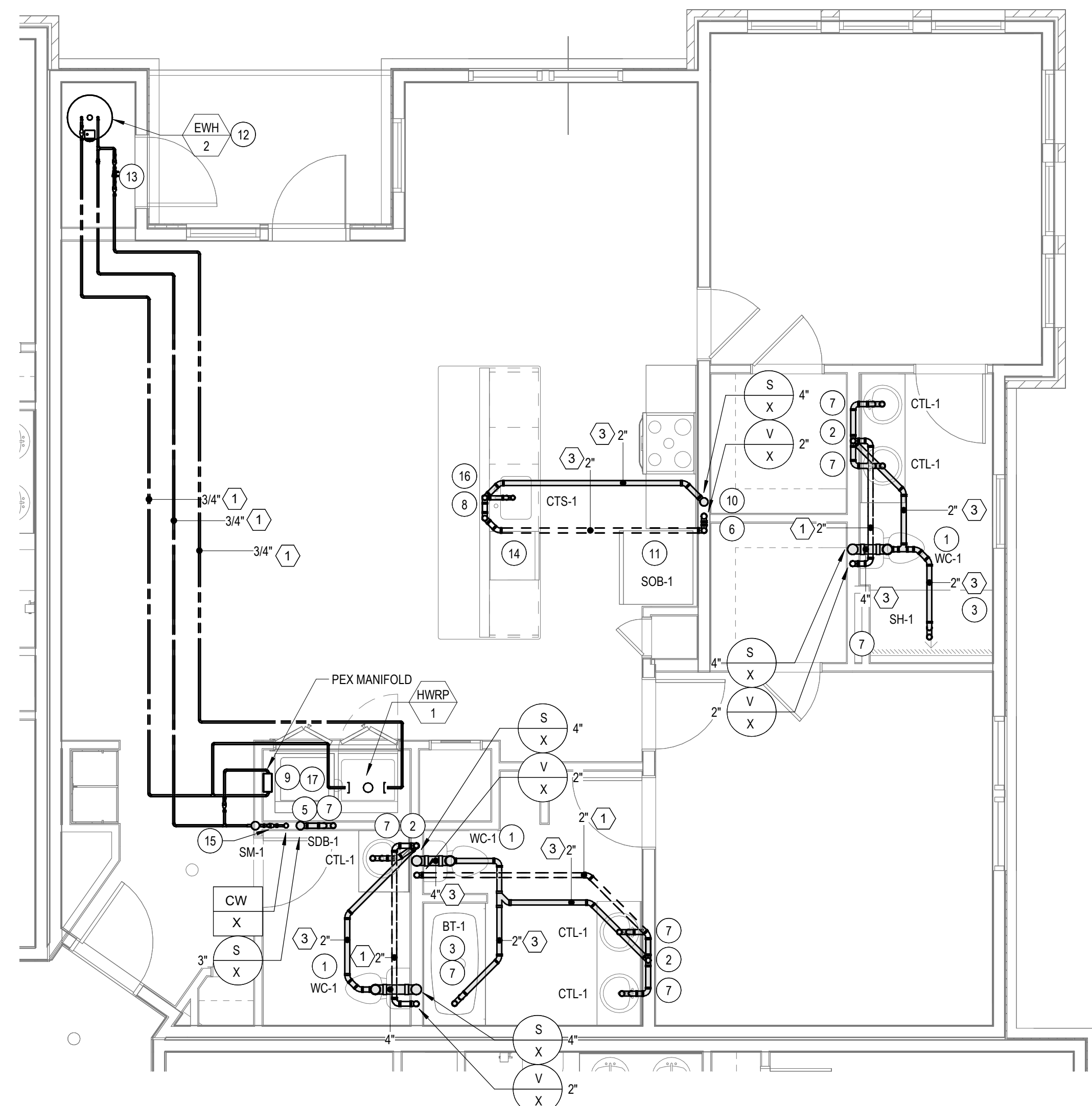
1 PLUMBING - UNIT - D PLAN
1/4" = 1'-0"



2 PLUMBING - UNIT - D - F1 (ALT. FOYER) PLAN
1/4" = 1'-0"



3 PLUMBING - UNIT - D2 - F1 PLAN
1/4" = 1'-0"



4 PLUMBING - UNIT - D2 - F2 (ALT. FOYER) PLAN
1/4" = 1'-0"

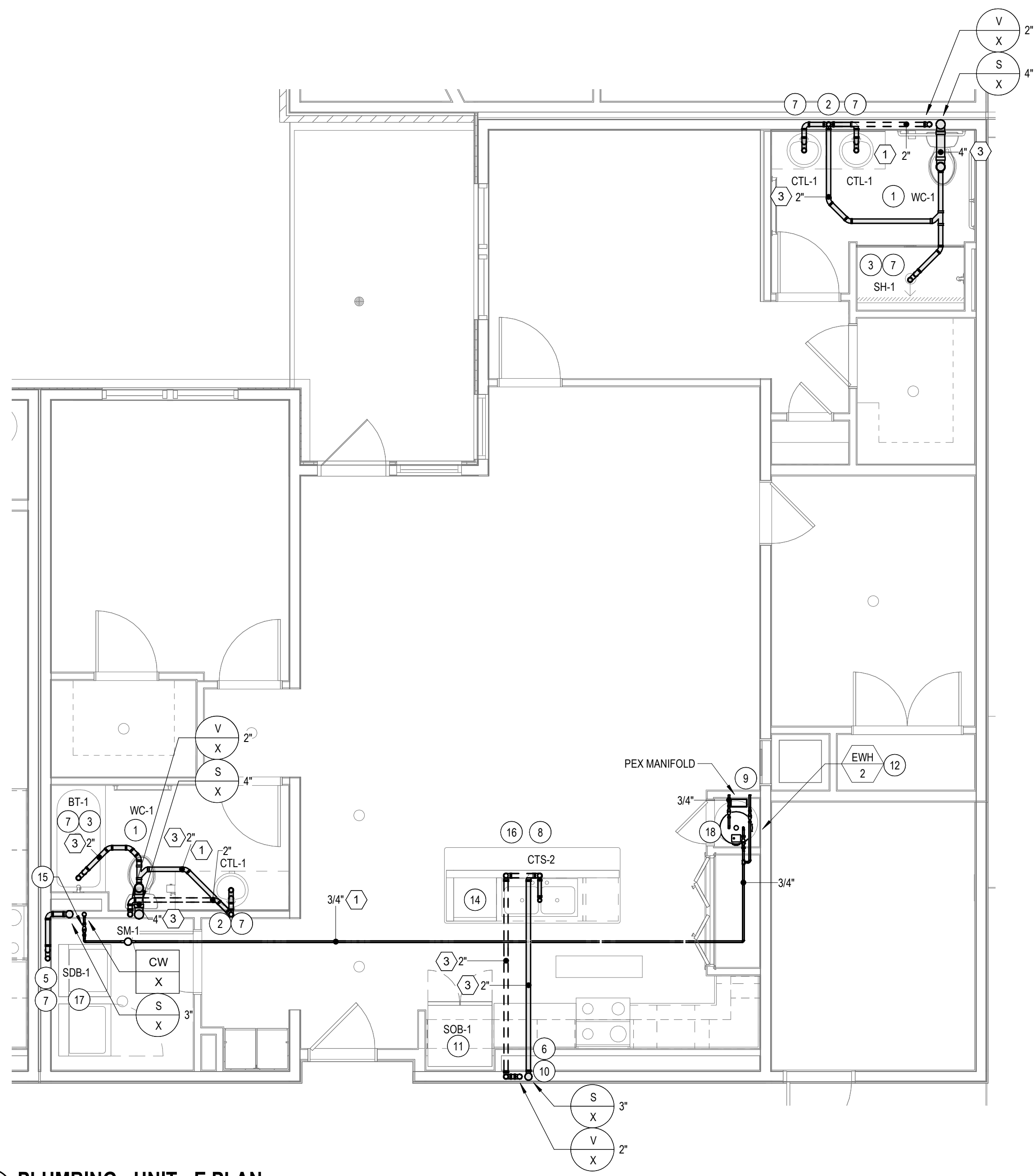
NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

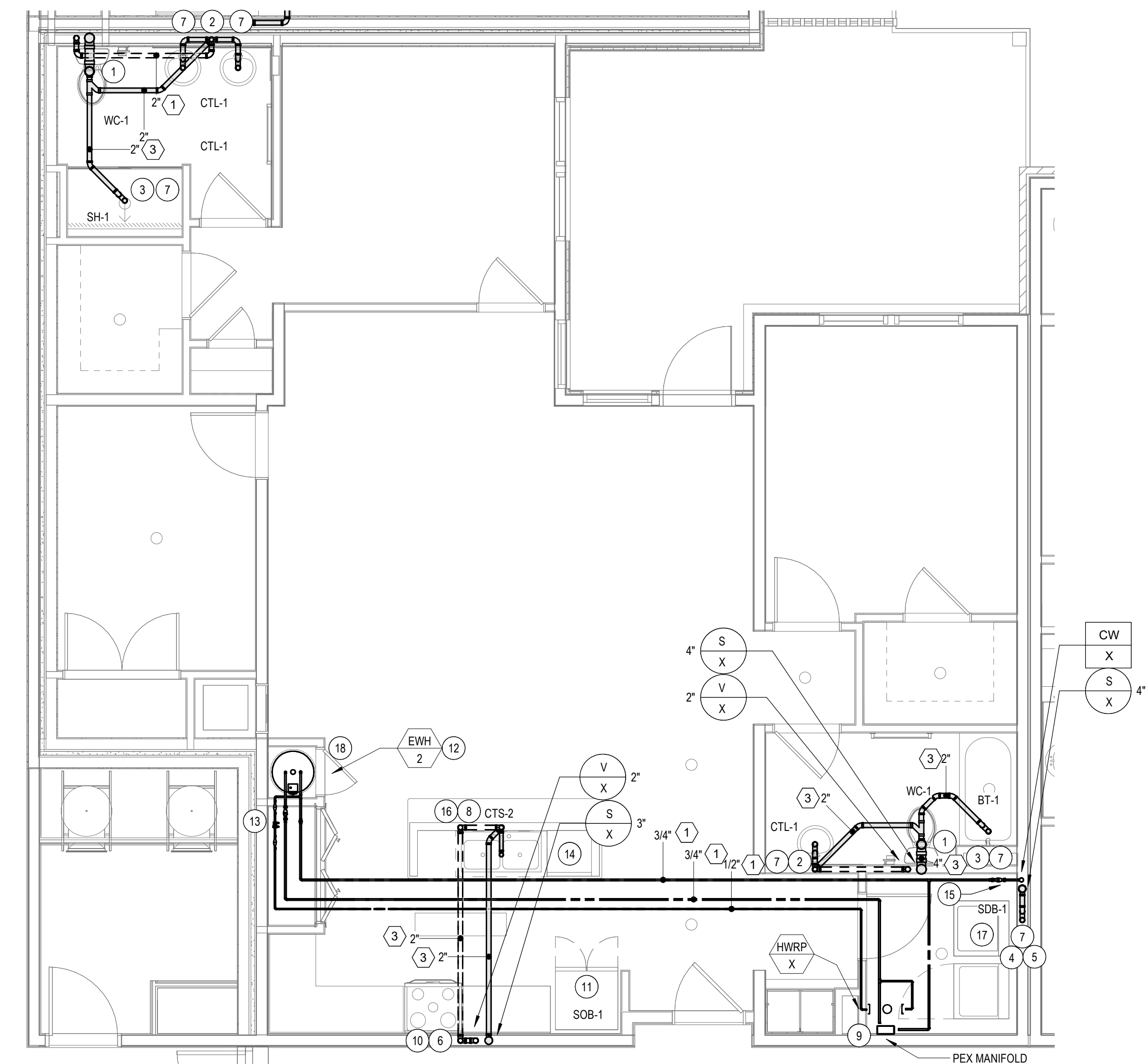
PLUMBING - UNIT PLANS
Granite Run Apartments

SCALE: AS INDICATED
DATE: 10/12/22

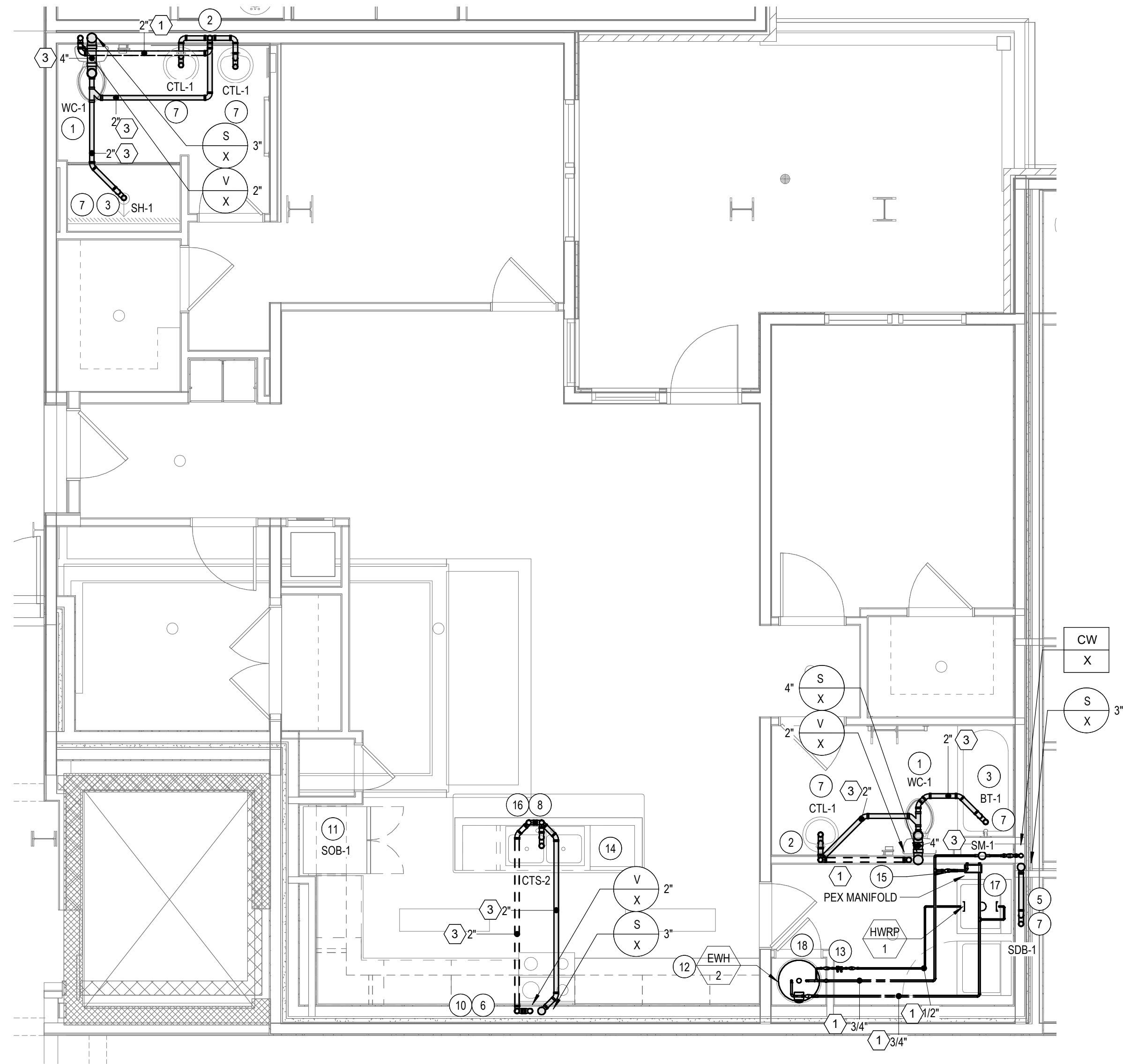
P6.05
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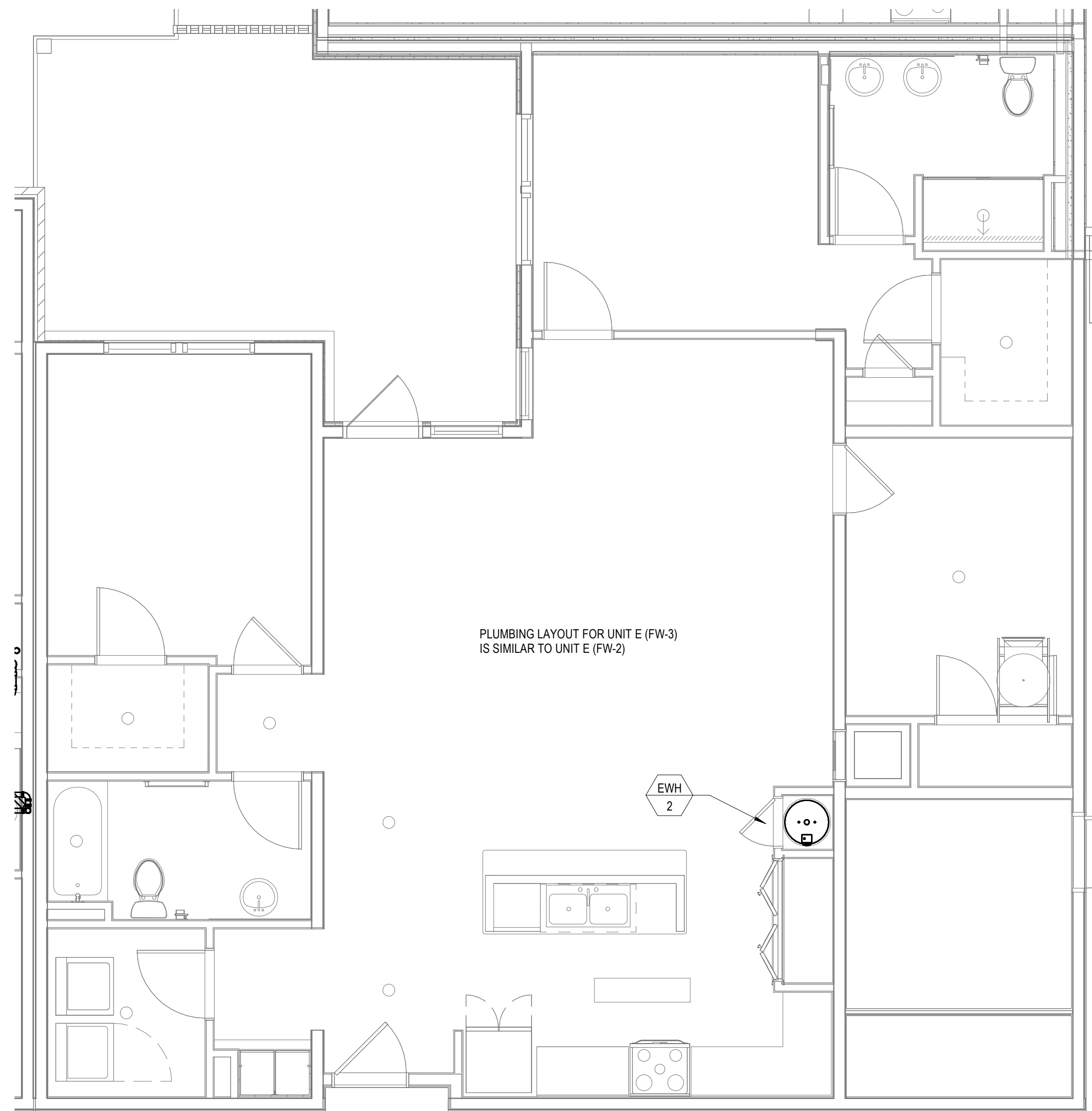
1 PLUMBING - UNIT - E PLAN
1/4" = 1'-0"



3 PLUMBING - UNIT - E (FW-2) PLAN
1/4" = 1'-0"



2 PLUMBING - UNIT - E (FW-1) PLAN
1/4" = 1'-0"



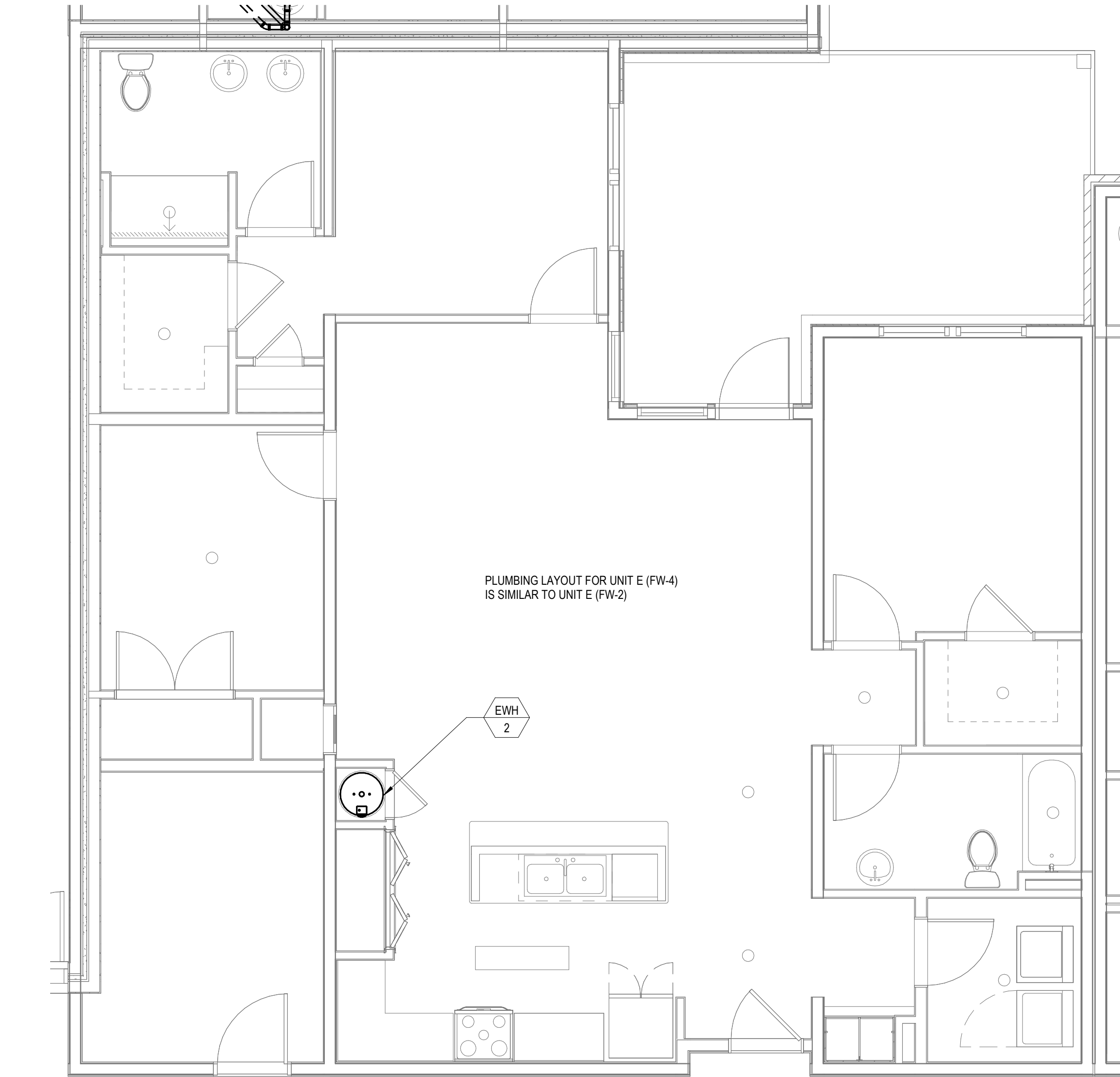
4 PLUMBING - UNIT - E (FW-3) PLAN
1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. PLUMBING CONTRACTOR SHALL INSTALL DOMESTIC WATER SUBMETER IN EACH UNIT AT WATER SERVICE ENTRY INTO UNIT. SUBMETER SHALL BE FURNISHED BY OWNER.

PLUMBING DRAWING NOTES

1. 4" SANITARY DOWN, 1/2" COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
2. 2" SANITARY DOWN, 2" VENT RISE.
3. 2" SANITARY DOWN TO TRAP.
4. 2" VENT RISE.
5. 2" SANITARY TRAP TO SANITARY STACK.
6. 2" VENT DOWN, PROVIDE PIPING TO ISLAND SINK. SEE DETAIL 10P0.31.
7. 1/2" HOT AND COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
8. 2" SANITARY DOWN, 2" ISLAND SINK VENT. SEE DETAIL 10P0.31.
9. 3/4" DOMESTIC HOT AND COLD WATER DROP TO PEX PIPING MANIFOLD.
10. 1/2" DOMESTIC HOT AND COLD WATER DOWN FROM PEX PIPING MANIFOLD.
11. 1/2" COLD WATER FROM PEX PIPING MANIFOLD TO PLUMBING FIXTURE.
12. 3/4" COLD WATER DROP, 3/4" HOT WATER RISE. REFERENCE DETAIL 3P0.31 FOR WATER HEATER PIPING ARRANGEMENT.
13. HOT WATER RETURN BALANCING VALVE ASSEMBLY.
14. 1/2" HOT WATER VALVED OUTLET TO DISHWASHER.
15. 3/4" COLD WATER TAP FROM COLD WATER RISER. PROVIDE ACCESS PANEL FOR UNIT ISOLATION VALVE. PROVIDE WATER SUB-METER FOR UNIT COLD WATER SUPPLY.
16. 1/2" DOMESTIC HOT AND COLD WATER PEX PIPING FROM BELOW.



1 PLUMBING - UNIT - E (FW-4) PLAN
P6.06 1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. PLUMBING CONTRACTOR SHALL INSTALL DOMESTIC WATER SUBMETER IN EACH UNIT AT WATER SERVICE ENTRY INTO UNIT. SUBMETER SHALL BE FURNISHED BY OWNER.

P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status