

A		L	
AC	AIR COMPRESSOR	L	LONG, LENGTH
AC	AIR CONDITIONING	LAT	LEAVING AIR TEMPERATURE
AD	AREA DRAIN	LAV	LAVATORY
ADD	ADDENDUM	LB(S)	POUNDS
ADD	ADDITIONAL	LF	LINEAR FOOT, FEET
AFF	ABOVE FINISH FLOOR	LOC	LOCATIVE (ION)
AFMS	AIRFLOW MEASURING STATION	LVL	LEVEL
AHJ	AIR HANDLING UNIT	LWR	LEAVING WATER TEMPERATURE
AL	ALTERNATE	M	
AMP	AMPERE	MA	MIXED AIR
AP	ACCESS PANEL	MAT	MIXED AIR TEMPERATURE
APD	AIR PRESSURE DROP	MATL	MATERIAL
ARCH	ARCHITECT(URAL)	MAU	MAKEUP AIR UNIT
AS	AIR SEPARATOR	MAX	MAXIMUM
AVG	AVERAGE	MCP	MCP BASIN
B		MBH	THOUSAND BTUH
B	BOILER	MCC	MOTOR CONTROL CENTER
BFE	BOTTOM OF FOOTING ELEVATION	MED	MOTORIZED DAMPER
BFP	BACKFLOW PREVENTER	MCH	MECHANICAL
BFV	BUTTERFLY VALVE	MEZ	MEDIUM
BHP	BREAK HORSEPOWER	MEZZ	MEZZANINE
BILDG	BUILDING	MFR(IG)	MANUFACTURE(ER) (ING)
BLDG	BEAM	MISC	MISCELLANEOUS
BMS	BUILDING MANAGEMENT SYSTEM	MIN	MINIMUM, MINUTE
BSMT	BASEMENT	MS	MOP SINK
BO	BOTTOM OF	N	
BOF	BOTTOM OF FOOTING	NA	NOT APPLICABLE
BOS	BOTTOM OF STEEL	NC	NOISE CRITERIA, NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNIT PER HOUR	N.O	NORMALLY OPEN
BV	BALL VALVE	NO	NITRIC OXIDE
BWV	BACKWATER VALVE	NO	NITROUS OXIDE
		NTS	NITROGEN DIOXIDE NOT TO SCALE
C		O	
CA	COMBUSTION AIR	O ₂	OXYGEN
CD	CONDENSATE DRAIN	OA	OUTSIDE AIR
CF	CUBIC FEET	OC	ON CENTER
CFH	CUBIC FEET PER HOUR	OCV	ON CENTER VERTICAL
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CFRD	CONTROLLER FLOW ROOF DRAIN	OF	OVERFLOW
CH	CHILLER	OF	OVERFLOW SCUPPER
CH	CIRCULATING	OH	OVERHEAD
CKT	CIRCUIT	OPT	OPTION
CKV	CHECK VALVE	ORD	OVERFLOW ROOF DRAIN
CO	CLEANOUT, CARBON MONOXIDE	OST	OVERFLOW STORM DRAINAGE
CO ₂	CLEANOUT, CARBON MONOXIDE		
COMB	COMBINATION	P	
COND	CONDENSATE	PACU	PACKAGED AIR CONDITIONING UNIT
CONN	CONNECT(ED) (ION)	PCC	PRECAST CONCRETE
CONT	CONTINUE(US) (ATION)	PC	PUMPED CONDENSATE
CONST	CONSTRUCTION	PD	PUMPED DISCHARGE
COORD	COORDINATE	PERIM	PERIMETER
CORR	CORROSION	PH	PHASE
CT	COOLING TOWER	PIV	POST INDICATOR VALVE
CTRL	CONTROL	PLBG	PLUMBING
CUH	CABINET UNIT HEATER	PROJ	PROJECT
CW	COLD WATER	PRV	PRESSURE REDUCING VALVE (PLBG)
D		PSF	POUNDS PER SQ FT
D	DEEP, DEPTH	PSI	POUNDS PER SQUARE INCH
dB	DEBELS	PSIG	POUNDS PER SQUARE INCH, GAUGE
DB	DRYBULB	PTAC	PACKAGED TERMINAL AIR CONDITIONING
DBL	DOUBLE	PVC	POLYVINYL CHLORIDE
DDC	DIRECT DIGITAL CONTROL		
DEG	DEGREE(S)	Q	
DEMO	DEMOLISH(ION)	QTY	QUANTITY
DEPT	DEPARTMENT	R	
DET	DETAIL, DOMESTIC EXPANSION TANK	R	RADIUS
DIFF	DIFFUSER	RA	RETURN AIR
DIA	DIAMETER	RAD	RADIAT(OR) (ION)
DM	DIMENSION	RO	ROOF DRAIN
DPS	DIFFERENTIAL PRESSURE SENSOR	REG	REGISTER
DISC	DISCONNECT	REQ(D)	REQUIRE(D)
DV	DRAIN	REOM	REQUIREMENT
DMPR	DAMPERS	RET	RETURN
DN	DOWN	REV	REVISE(E) (ED) (ION)
DOC	DOCUMENT(S)	RH	RELATIVE HUMIDITY
DWG(S)	DRAWING(S)	RM	ROOM
E		Rn	RADON
EA	EACH, EXHAUST AIR	RPM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	RPZ	REDUCED PRESSURE ZONE VALVE
ECM	ELECTRONICALLY COMMUTATED MOTOR	RTU	ROOFTOP UNIT
ELEC	ELECTRICAL	R&R	REMOVE AND REPLACE
ELEV	ELEVATOR	S	
EMER	EMERGENCY	S	SENSOR
EMS	EMERGENCY MANAGEMENT SYSTEM	SA	SUPPLY AIR
ENGR	ENGINEER	SAT	SOUND ATTENUATOR
EQ	EQUAL	SCHD	SCHEDULE
EQUIP	EQUIPMENT	SCW	SOFTENED COLD WATER
ESP	EXTERNAL STATIC PRESSURE	SD	SMOKE DAMPER
ET	EXPANSION TANK	SDT	SQUARE FEET
EWC	ELECTRIC WATER COOLER	SF	SQUARE FEET
EWI	ELECTRIC WATER HEATER	SFD	SMOKE FIRE DAMPER
EWI	ENTERING WATER TEMPERATURE	SMIL	SIMILAR
EX	EXISTING	SK	SPECIALTY SINK
EXT	EXTERIOR	SOG	SLAB ON GRADE
F		SP	STATIC PRESSURE
"F	FAHRENHEIT	SPKLR	SPRINKLER
F	FIRE PIPE, FIRE DAMPER	SO	SQUARE
FC	FAN COIL	ST	STANDARD
FCO	FLOOR CLEANOUT	STD	STANDARD
FCU	FAN COIL UNIT	STRN	STRAINER
FDR	FLOOR DRAIN	STRUC	STRUCTURAL
FDC	FIRE DEPARTMENT CONNECTION	SV	STACK VENT
FDR	FIRE DAMPER	T	
FDV	FIRE DEPARTMENT VALVE	T	THERMOSTAT
FF	FINISHED FLOOR	TC	TEMPERATURE CONTROL
FFE	FINISHED FLOOR ELEVATION	TCC	TEMPERATURE CONTROL CONTRACTOR
FLEX	FLEXIBLE	TEMP	TEMPERATURE DIFFERENCE
FLR	FLOOR	TMV	TEMPERATURE MIXING VALVE
FLS	FLAMMABLE LIQUID SEPARATOR	TOS	TOP OF STEEL
FP	FIREPROOF(ING)	TYP	TYPICAL
FPM	FEET PER MINUTE	U	
FSP	FIRE STANDPIPE	U	URINAL
FTFH	FIRE PUMP TEST HEADER	UH	UNIT HEATER
FT(I)	FOOT, FEET	UNO	UNLESS NOTED OTHERWISE
FTQ	FOOT, FEET	V	
FTS	FOOTING	V	VENT PIPE
FTG	FEET OF HEAD	VAC	VACUUM
FTD	FINED TUBE RADIATION	VAL	VALVE
FTR	FLOAT AND THERMOSTATIC TRAP	VAV	VARIABLE AIR VOLUME
G		VB	VACUUM BREAKER
GA	GAUGE	VF	VENTILATION FAN
GAL	GALLON(S)	VFD	VARIABLE FREQUENCY DRIVE
GALV	GALVANIZED	VFE	VERIFY IN FIELD
GC	GENERAL CONTRACTOR	VOL	VOLUME
GPH	GALLONS PER HOUR	VSD	VARIABLE SPEED DRIVE
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
GRV	GRAVITY ROOF VENTILATOR	W	
GRW	GAS WATER HEATER	WC	WATER CLOSET
GV	GATE VALVE	WH	WATER HYDRANT, WATER HEATER
GYP	GYPSUM	Y	
H		YCO	YARD CLEANOUT
H	HIGH, HUMIDIFIER, HUMIDISTAT	YH	YARD HYDRANT
HB	HOSE BIB	SYMBOLS	
HP	HORSEPOWER, HEAT PUMP		
HPU	HEAT PUMP UNIT		
HT	HEIGHT		
HTG	HEATING		
HTR	HEATER		
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING		
HX	HEAT EXCHANGER		
HYD	HYDRAULIC		
HZ	HERTZ		
I			
ID	INSIDE DIAMETER / DIMENSION (INCHES)		
IN (")	INSULATE(ED)		
INT	INTERIOR		
INV	INVERT ELEVATION		
J			
JT	JOINT		
K			
KW	KILOWATT		
KWH	KILOWATT HOUR		
KS	KITCHEN SINK		

REFERENCE SYMBOLS	
REFERENCE SYMBOLS INDICATE THAT ADDITIONAL INFORMATION CONCERNING THE PART OF THE WORK REFERENCED MAY BE FOUND AT THE LOCATION INDICATED BY THE SYMBOL AND AS DESCRIBED BELOW.	
DETAIL CALLOUT:	INDICATES THE DETAIL CALLOUT NUMBER
	INDICATES SHEET WHERE DETAIL CALLOUT IS DRAWN
DETAIL:	
	INDICATES AREA OF DETAIL CUT PARALLEL TO VIEW
DETAIL PLAN OR ELEVATION:	
	INDICATES AREA OF ENLARGED PLAN OR ENLARGED ELEVATION
DETAIL CALLOUT:	INDICATES DETAIL NUMBER
	INDICATES SHEET WHERE DETAIL IS DRAWN
BUILDING SECTION:	INDICATES BUILDING SECTION NUMBER
	INDICATES SHEET WHERE BUILDING SECTION IS DRAWN
WALL SECTION:	INDICATES WALL SECTION NUMBER
	INDICATES SHEET WHERE WALL SECTION IS DRAWN
EXTERIOR ELEVATION:	INDICATES EXTERIOR ELEVATION NUMBER
	INDICATES SHEET WHERE EXTERIOR ELEVATION IS DRAWN
INTERIOR ELEVATION (SINGLE):	INDICATES INTERIOR ELEVATION NUMBER
	INDICATES SHEET WHERE INTERIOR ELEVATION IS DRAWN
INTERIOR ELEVATION (MULTIPLE):	INDICATES INTERIOR ELEVATION NUMBER
	INDICATES SHEET WHERE INTERIOR ELEVATION IS DRAWN
NEW GRID LINES:	
EXISTING GRID LINES:	
REVISION:	REVISION NUMBER - SEE REVISION HISTORY ON TITLE BLOCK OF EACH SHEET
REVISION CLOUD:	
	REVISION NUMBER - SEE REVISION HISTORY ON TITLE BLOCK OF EACH SHEET
KEYNOTE:	SEE CORRESPONDING NUMBERED KEY NOTE ON SHEET WHERE REFERENCE OCCURS
ELEVATION LEVEL:	INDICATES FLOOR LEVEL
	INDICATES FLOOR LEVEL ELEVATION
EXISTING WALL TO REMAIN	
EXISTING WALL TO BE REMOVED	

MECHANICAL GENERAL NOTES	
1.	CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS. NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE COMPLETE WITHOUT THE OTHER.
2.	GENERAL NOTES, SYMBOLS LIST, AND DETAILS ARE APPLICABLE TO ALL DRAWINGS OF THIS SECTION.
3.	DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT THE INTENT TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT NECESSARY. HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFICALLY SPECIFIED TO COMPLETE THE SYSTEMS BEING INSTALLED, TESTED AND MADE OPERATIONAL.
4.	CONTRACTORS SHALL REFER TO ARCHITECTURAL AND ALL OTHER DISCIPLINES DRAWINGS FOR DIMENSIONS AND OTHER GENERAL INFORMATION NECESSARY TO COMPLETE THE WORK.
5.	THE DOCUMENTS AND SPECIFICATIONS SHALL GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
6.	PERFORM WORK, PROVIDE MATERIALS AND EQUIPMENT FOR COMPLETE AND FULLY FUNCTIONAL SYSTEMS SHOWN, SPECIFIED, AND DESCRIBED ON DRAWINGS. COMPLETELY COORDINATE WORK OF THIS CONTRACT WITH WORK OF OTHER CONTRACTORS. REMOVE ALL DEBRIS CAUSED BY THIS CONTRACTOR'S WORK DAILY.
7.	ALL MATERIALS, EQUIPMENT, AND METHODS OF INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.
8.	ADDRESS QUESTIONS REGARDING DRAWINGS TO ENGINEER IN WRITING BEFORE AWARD OF CONTRACT; OTHERWISE, ENGINEER'S INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
9.	EACH CONTRACTOR SHALL, GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES HAVING JURISDICTION FOR THIS WORK.
10.	WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. PIPES, DUCTWORK, EQUIPMENT, AND ACCESSORIES SHALL BE INSTALLED AS TIGHT TO STRUCTURE AS POSSIBLE. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES. DO NOT RUN PIPES AND DUCTWORK EXPOSED UNLESS SHOWN AND NOTED TO BE EXPOSED ON DRAWINGS.
11.	EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF ITS NEW WORK. CUTTING AND PATCHING SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER. PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE GREATEST EXTENT POSSIBLE. PROVIDE TOUCH-UP TO MATCH EXISTING SURROUNDING AREAS OF CUTTING AND PATCHING WORK.
12.	PRIOR TO COMMENCING WORK, CONTRACTOR SHALL SUBMIT A COPY OF SHOP DRAWINGS AND EQUIPMENT DATA FOR MATERIALS AND EQUIPMENT TO THE ENGINEER FOR REVIEW AND APPROVAL. MATERIALS AND EQUIPMENT SHALL NOT BE INSTALLED BEFORE SHOP DRAWINGS ARE REVIEWED AND APPROVED. AT LEAST TEN WORKING DAYS, EXCLUSIVE OF TRANSMITTAL TIME, FOR SUBMITTAL REVIEW SHALL BE ALLOWED FOR ENGINEER'S REVIEW.
13.	DEVIATION FROM CONTRACT DOCUMENTS, OR PROPOSED SUBSTITUTION OF MATERIALS, OR EQUIPMENT FOR THOSE SPECIFIED SHALL BE REQUESTED IN A SEPARATE LETTER IN ACCORDANCE WITH SPECIFICATIONS PRIOR TO BID.
14.	MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL) AND APPROVED BY ASME AND AGA FOR INTENDED SERVICE.
15.	AS WORK PROGRESSES, MAINTAIN AND MARK-UP A COMPLETE SET OF PRINTS OF CONTRACT DRAWINGS AT JOB SITE FOR THE DURATION OF THE CONTRACT. WORK COMPLETED AND ALL CHANGES FROM ORIGINAL CONTRACT DRAWINGS SHALL BE RECORDED CLEARLY AND ACCURATELY, INCLUDING WORK INSTALLED AS A MODIFICATION OR ADDITION TO THE ORIGINAL DESIGN. TURN OVER THE FINAL SET OF "AS BUILT" DRAWINGS TO OWNER AT THE CONCLUSION OF CONSTRUCTION. PROVIDE A COPY OF THE "AS BUILT" DRAWINGS TO THE ENGINEER OF RECORD.
16.	GUARANTEE WORK OF THIS CONTRACTOR IN WRITING FOR ONE YEAR FROM THE DATE OF OWNER'S ACCEPTANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION. PROMPTLY, COMPLETELY REPAIR OR REPLACE DEFECTIVE MATERIALS, EQUIPMENT, WORKMANSHIP AND INSTALLATIONS THAT DEVELOP DEFECTS WITHIN THIS PERIOD. PROMPTLY AND TO OWNERS SATISFACTION, CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENT UNDER GUARANTEE AT NO ADDITIONAL COST TO OWNER. SUBMIT WRITTEN GUARANTEE TO ARCHITECT AND OWNER BEFORE FINAL PAYMENT. STATEMENT OF GUARANTEE REQUIREMENTS SHALL NOT BE INTERRUPTED TO LIMIT OWNER'S RIGHTS UNDER LAW AND THIS CONTRACT.
17.	EACH RESPECTIVE CONTRACTOR SHALL COORDINATE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT, OR REPAIR. ACCESS PANELS SHALL BE A MINIMUM OF 12" x 12" AND SHALL BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. ALL LOCATIONS SHALL BE CONFIRMED WITH ARCHITECT.
18.	CONTRACTORS SHALL FIRE STOP ALL PENETRATIONS THROUGH HORIZONTAL ASSEMBLIES, FIRE RATED WALLS OR PARTITIONS WITH UL RATED ASSEMBLIES WITH AN EQUAL UL RATED FIRE STOP. CONTRACTORS SHALL COORDINATE WITH GENERAL CONTRACTOR TO MAINTAIN CONSISTENT PRODUCT USAGE.
19.	DO NOT SUPPORT EQUIPMENT FROM CEILINGS. ALL SUPPORT SHALL COME FROM BUILDING STRUCTURE.
20.	PRODUCTS SUBMITTED AND APPROVED FOR USE THAT NECESSITATE CHANGES TO THE WORK OF OTHER TRADES OF CONTRACT SHALL BE COORDINATED AND ARRANGED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
21.	CONTRACTOR SHALL COORDINATE ITS RESPECTIVE CEILING MOUNTED EQUIPMENT WITH OTHER TRADE CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS.
22.	PRIOR TO ACCEPTANCE OF THE FACILITY, EACH RESPECTIVE CONTRACTOR SHALL ASSURE THAT ALL SYSTEMS SHALL BE TESTED, BALANCED, AND ARE OPERATED AS A DEMONSTRATION TO THE OWNER, OR THE OWNER'S REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS CONFORM TO THE DESIGN INTENT.
PLUMBING GENERAL NOTES	
1.	PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW CONDITIONS AND OBSTACLES.
2.	WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON THE EXTERIOR SIDE OF THE BUILDING INSULATION ENVELOPE.
3.	ALL CW, HW, AND CHW PIPING, VALVES, ETC. SHALL BE INSULATED. INSULATION SHALL BE INSTALLED BY AN INSULATING CONTRACTOR.
4.	ANY AND ALL ALTERATIONS TO THE SYSTEM SHALL BE SUBMITTED TO THE ENGINEER IN WRITING PRIOR TO ANY CHANGES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES MADE WITHOUT ENGINEER'S APPROVAL.
5.	FOR PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES, SEE THE PLUMBING FIXTURE SCHEDULE INDICATED ON SHEET P001.
6.	ALL SHUTOFF VALVES SHALL BE ACCESSIBLE. DO NOT LOCATE ANY VALVES ABOVE DUCTWORK, ELECTRICAL CONDUIT, CABLE TRAYS, OR PIPES THAT WOULD MAKE THE VALVES INACCESSIBLE OR UNABLE TO VISUALLY SEE THE VALVE LOCATION. LOCATE THE BRANCH SHUTOFF VALVES AS CLOSE AS POSSIBLE TO THE BRANCH CONNECTION TO THE MAIN SERVICE WHILE MAINTAINING VALVE ACCESSIBILITY.
7.	PROVIDE ADDITIONAL PIPE LABELS AS REQUIRED ON THE DOMESTIC WATER AND SANITARY SERVICES WHERE PIPING IS LOCATED ABOVE DUCTWORK, ELECTRICAL CONDUIT, OTHER PIPING, OR CABLE TRAYS.
8.	ALL COLD AND HOT WATER PIPING TO BE A MINIMUM OF 1/2 INCH UNLESS OTHERWISE NOTED. ALL MINIMUM PIPE SERVICES SHALL BE EXTENDED TO EACH PLUMBING FIXTURE AS REQUIRED.
9.	DRAIN/ILE PIPING SYSTEM BY GENERAL CONTRACTOR.
10.	WHEN SAY CUTTING FLOORS FOR PIPING TRENCHES, CONTRACTOR SHALL PROVIDE BACKFILL FREE OF DISCARDED CONSTRUCTION MATERIAL AND DEBRIS. LOOSE EARTH FREE OF ROCKS, BROKEN CONCRETE, AND FROZEN CHUNKS SHALL BE USED AS BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN THE TRENCH IN 6 INCH LIFTS, TAMPED BETWEEN LIFTS, UNTIL THE CROWN OF THE PIPE IS COVERED BY 12 INCHES OF TAMPED EARTH, OR ACCORDING TO STATE AND LOCAL CODES.
11.	ALL VARIABLE FREQUENCY DRIVES FURNISHED UNDER DIVISION 21-23 SHALL BE MANUFACTURED BY THE SAME MANUFACTURER; THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE.

PLUMBING AND FIRE PROTECTION SYMBOLS					
ABBR	SYMBOL	DESCRIPTION	ABBR	SYMBOL	DESCRIPTION
CW	— — — — —	COLD WATER	CO	— — — — —	END OF PIPE CLEANOUT
HW	— — — — —	HOT WATER (120° F)	FCO	— — — — —	FLOOR CLEANOUT
HW	— — — — —	HOT WATER (140° F)	WCO	— — — — —	WALL CLEANOUT
CHW	— — — — —	CIRCULATION HOT WATER (120° F)	YCO	— — — — —	YARD CLEANOUT
CHW	— — — — —	CIRCULATION HOT WATER (140° F)			
NPCW	— — — — —	NON-POTABLE COLD WATER			
NPHW	— — — — —	NOT-POTABLE HOT WATER			
SCW	— — — — —	SOFTENED COLD WATER			
AW	— — — — —	ACID RESISTANT WASTE ABOVE GROUND			
AW	— — — — —	ACID RESISTANT WASTE UNDERGROUND			
AV	— — — — —	ACID RESIDENT VENT			
FW	— — — — —	FLAMMABLE WASTE ABOVE GROUND			
FW	— — — — —	FLAMMABLE WASTE UNDERGROUND			
FV	— — — — —	FLAMMABLE WASTE VENT			
GW	— — — — —	GREASE WASTE ABOVE GROUND			
GW	— — — — —	GREASE WASTE UNDERGROUND			
GV	— — — — —	GREASE WASTE VENT			
ST	— — — — —	STORM DRAINAGE ABOVE GROUND			
ST	— — — — —	STORM DRAINAGE UNDERGROUND			
OST	— — — — —	OVERFLOW STORM DRAINAGE			
W	— — — — —	SOIL OR WASTE ABOVE GROUND	HB	— — — — —	HOSE BIBB
W	— — — — —	SOIL OR WASTE UNDERGROUND	WH	— — — — —	WALL HYDRANT
PW	— — — — —	PUMPED SOIL OR WASTE ABOVE GROUND	YH	— — — — —	YARD HYDRANT
V	— — — — —	SANITARY VENT			
C	— — — — —	COMBINATION DOMESTIC WATER & FIRE PROTECTION	AD	— — — — —	AREA DRAIN
F	— — — — —	FIRE PROTECTION	FD	— — — — —	FLOOR DRAIN
			HD	— — — — —	HOPPER DRAIN
A	— — — — —	COMPRESSED AIR	ORD	— — — — —	OVERFLOW ROOF DRAIN
G	— — — — —	GAS PIPING (NATURAL GAS)	RD	— — — — —	ROOF DRAIN
LP	— — — — —	LIQUIDIZED PROPANE			
O	— — — — —	OXYGEN PIPING			
VAC	— — — — —	VACUUM LINE			
0W30	— — — — —	MOTOR OIL 0W30			
5W30	— — — — —	MOTOR OIL 5W30			
5W30D	— — — — —	MOTOR OIL 5W30D			
10W30	— — — — —	MOTOR OIL 10W30			
ATF	— — — — —	AUTOMATIC TRANSMISSION FLUID			
HYD	— — — — —	HYDRAULIC FLUID			
BAL V	— — — — —	BALANCING VALVE			
BFP	— — — — —	BACKFLOW PREVENTER			
BWV	— — — — —	BACK WATER VALVE			
BV	— — — — —	BALL VALVE			
BFV	— — — — —	BUTTERFLY VALVE			
CKV	— — — — —	CHECK VALVE			
	— — — — —	GAS COCK			
	— — — — —	GAS REGULATOR			
GV	— — — — —	GATE VALVE			
	— — — — —	METER			
	— — — — —	PRESSURE RELIEF VALVE			
PRV	— — — — —	PRESSURE REDUCING VALVE			
	— — — — —	PUMP			
RPZ	— — — — —	REDUCED PRESSURE ZONE VALVE			
	— — — — —	SHUTOFF VALVE			
STRN	— — — — —	STRAINER & STRAINER W/ SHUTOFF			
	— — — — —	THERMOMETER			
	— — — — —	THERMOSTATIC MIXING VALVE			
	— — — — —	VALVE IN VERTICAL PIPE			
FDC	— — — — —	FIRE DEPARTMENT CONNECTION			
FPTH	— — — — —	FIRE PUMP TEST HEADER			

CONSULTANTS

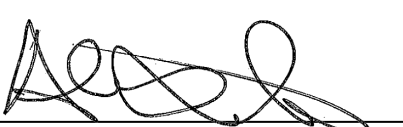
PROJECT TITLE

SUPERIOR
MECHANICAL -
4TH LANE FLATS
KASSON, MN

ISSUE #	DATE	DESCRIPTION
	07/22/2025	PERMIT SET
A	08/18/2025	PERMIT RESPONSE

CERTIFICATION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

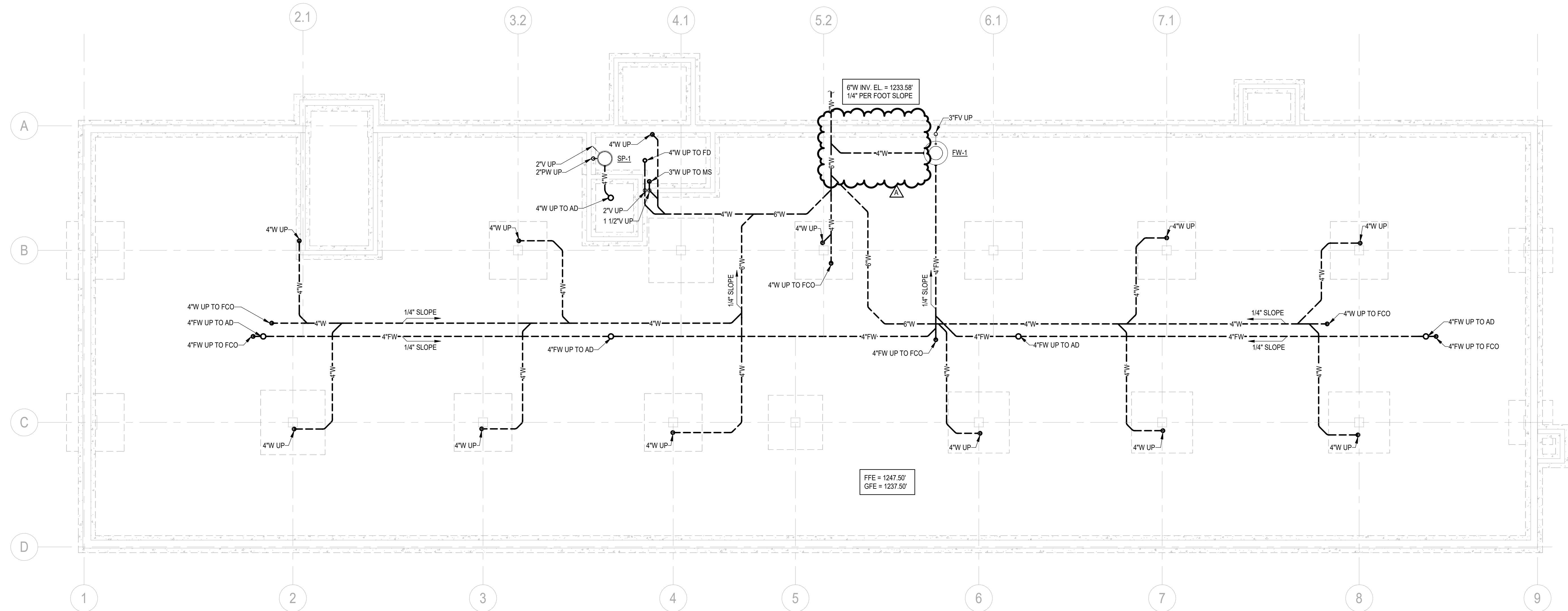

Alex Sawka
53200
License Number
Date
08/18/2025
DRAWN BY
MRR
CHECKED BY
AMS
COMMISSION NUMBER
1803.28

SHEET TITLE

UNDERGROUND
PLUMBING PLAN

SHEET NUMBER

P081



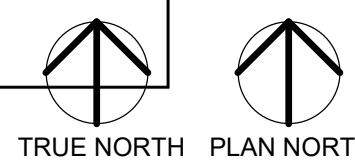
1 UNDERGROUND PLUMBING PLAN
P081 1/8\"/>



THIS PLAN REVIEWED FOR COMPLIANCE WITH
THE MINNESOTA PLUMBING CODE, CHAPTER 4714.

DATE APPROVED: 8/26/2025
PLAN REVIEW NO.: PB-R2505-0233

REFER TO THE REPORT ISSUED BY THIS DEPARTMENT
FOR ADDITIONAL REQUIREMENTS.



ISSUE #	DATE	DESCRIPTION
A	07/22/2025	PERMIT SET
	08/18/2025	PERMIT RESPONSE

CERTIFICATION

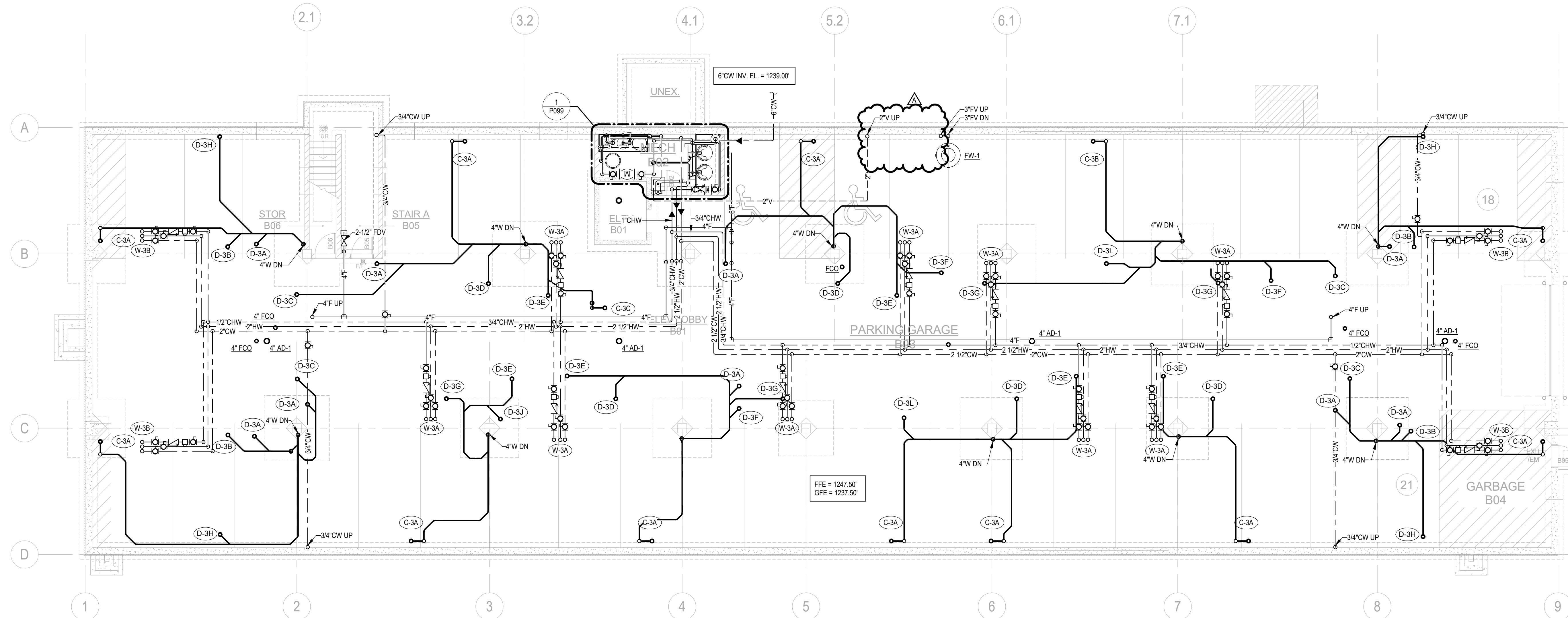
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Alex Sawka	
53200	08/18/2025
License Number	Date
DRAWN BY	MNR
CHECKED BY	AMS
COMMISSION NUMBER	1803.28
SHEET TITLE	

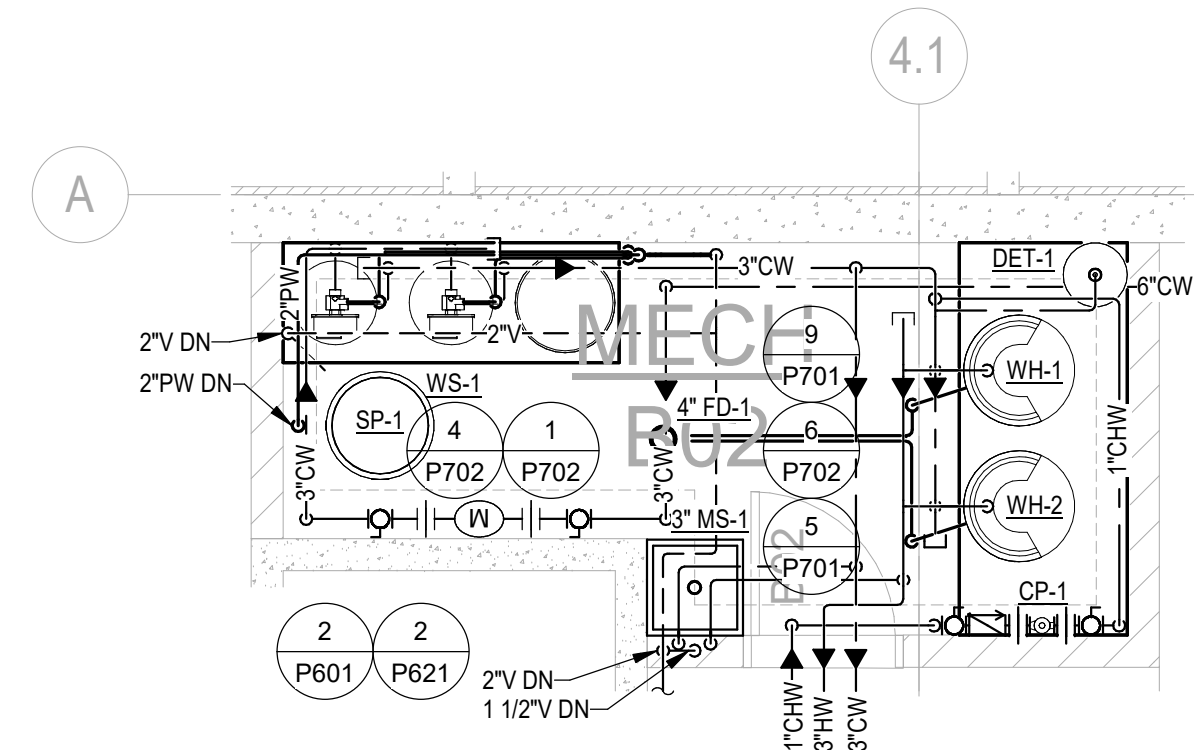
**LEVEL P1
PLUMBING PLAN**

SHEET NUMBER

P099



2 LEVEL P1 PLUMBING PLAN
P099 1/8\" = 1'-0"



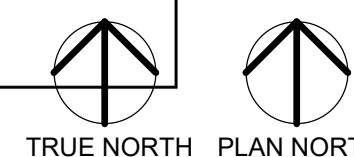
1 MECH B02 ENLARGED PLUMBING PLAN
P099 1/4\" = 1'-0"

**m DEPARTMENT OF
LABOR AND INDUSTRY**

THIS PLAN REVIEWED FOR COMPLIANCE WITH
THE MINNESOTA PLUMBING CODE, CHAPTER 4714.

DATE APPROVED: 8/26/2025
PLAN REVIEW NO.: PB-R2505-0233

REFER TO THE REPORT ISSUED BY THIS DEPARTMENT
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CONSULTANTS

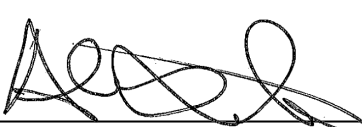
PROJECT TITLE

SUPERIOR
MECHANICAL -
4TH LANE FLATS
KASSON, MN

ISSUE #	DATE	DESCRIPTION
	07/22/2025	PERMIT SET

CERTIFICATION

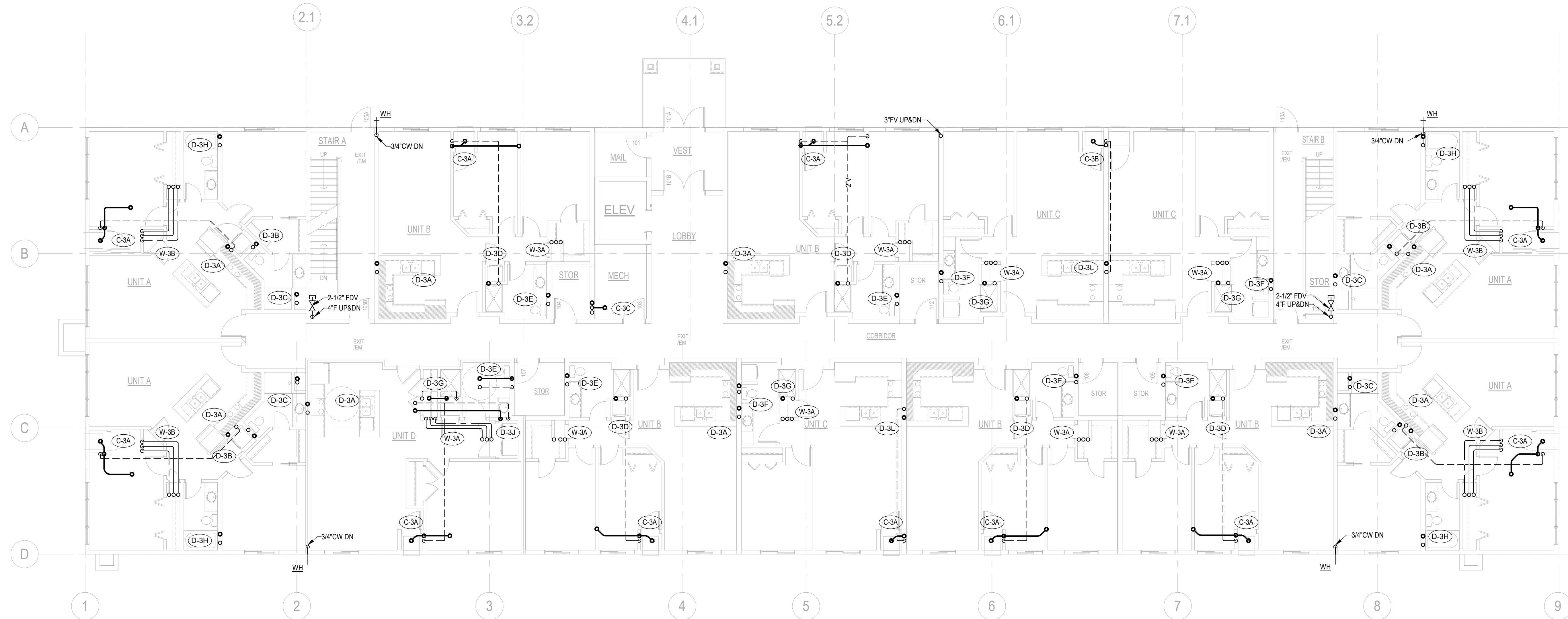
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota


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License Number
07/22/2025
Date
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COMMISSION NUMBER 1803.28
SHEET TITLE

LEVEL 1
PLUMBING PLAN

SHEET NUMBER

P101



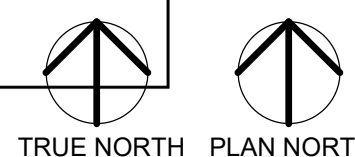
2 LEVEL 1 PLUMBING PLAN
P101 1/8" = 1'-0"



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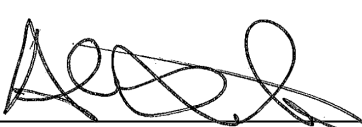
PROJECT TITLE

SUPERIOR
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4TH LANE FLATS
KASSON, MN

ISSUE #	DATE	DESCRIPTION
	07/22/2025	PERMIT SET

CERTIFICATION

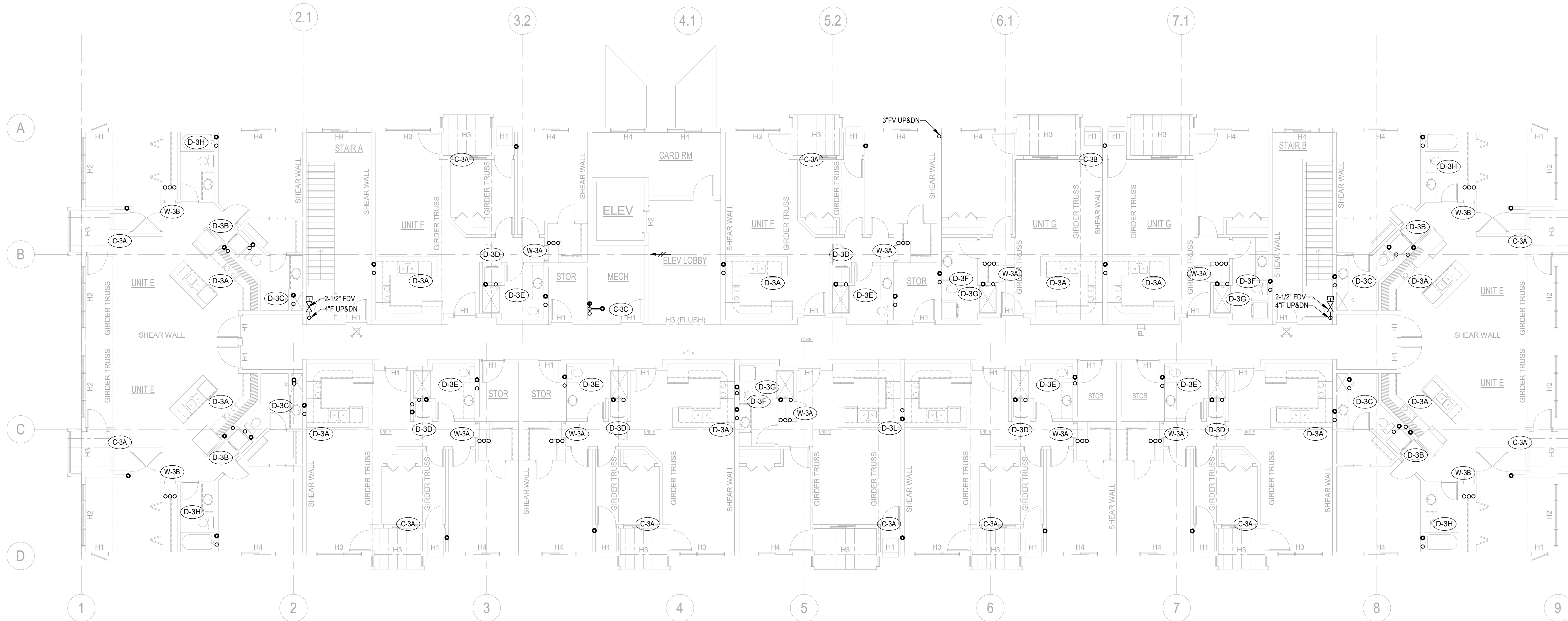
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COMMISSION NUMBER	1803.28
SHEET TITLE	

LEVEL 2
PLUMBING PLAN

SHEET NUMBER

P102



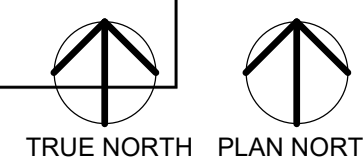
2 LEVEL 2 PLUMBING PLAN
P102 1/8" = 1'-0"



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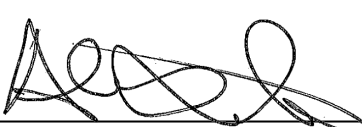
PROJECT TITLE

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4TH LANE FLATS
KASSON, MN

ISSUE #	DATE	DESCRIPTION
	07/22/2025	PERMIT SET

CERTIFICATION

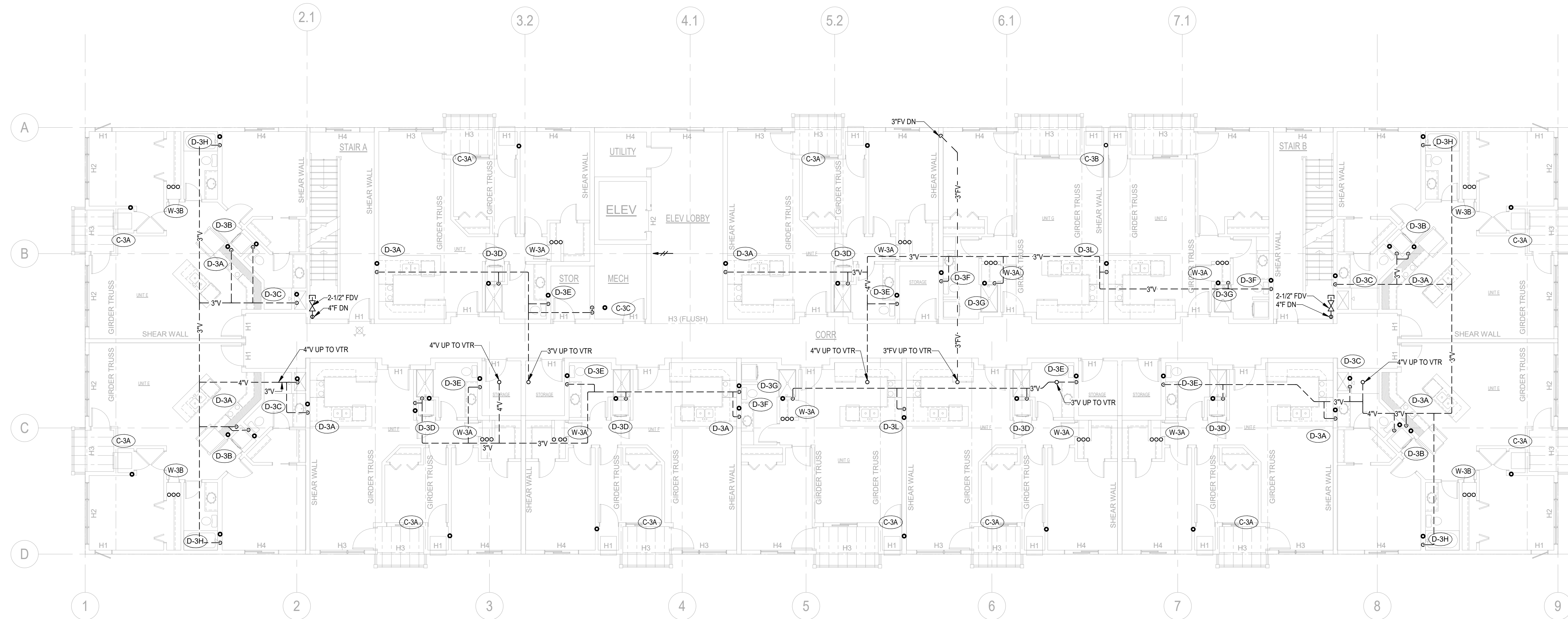
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CHECKED BY	AMS
COMMISSION NUMBER	1803.28
SHEET TITLE	

LEVEL 3
PLUMBING PLAN

SHEET NUMBER

P103



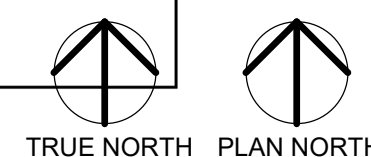
2 LEVEL 3 PLUMBING PLAN
P103 1/8" = 1'-0"



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CONSULTANTS

PROJECT TITLE

SUPERIOR
MECHANICAL -
4TH LANE FLATS
KASSON, MN

ISSUE #	DATE	DESCRIPTION
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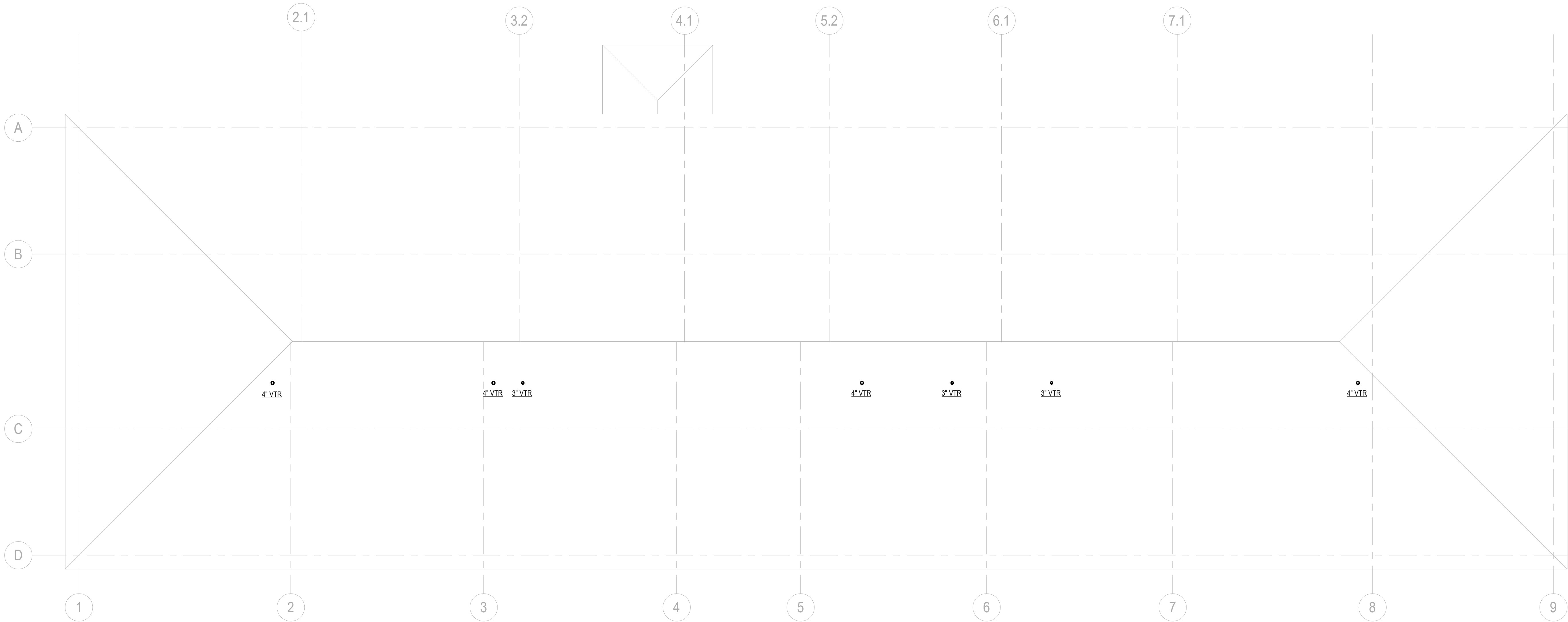
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53200	07/22/2025
License Number	Date
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CHECKED BY	AMS
COMMISSION NUMBER	1803.28

SHEET TITLE

ROOF PLUMBING
PLAN

SHEET NUMBER

P141



2 ROOF PLUMBING PLAN
P141 1/8\"/>



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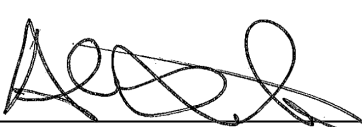
PROJECT TITLE

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CHECKED BY	AMS	
COMMISSION NUMBER	1803.28	

SHEET TITLE

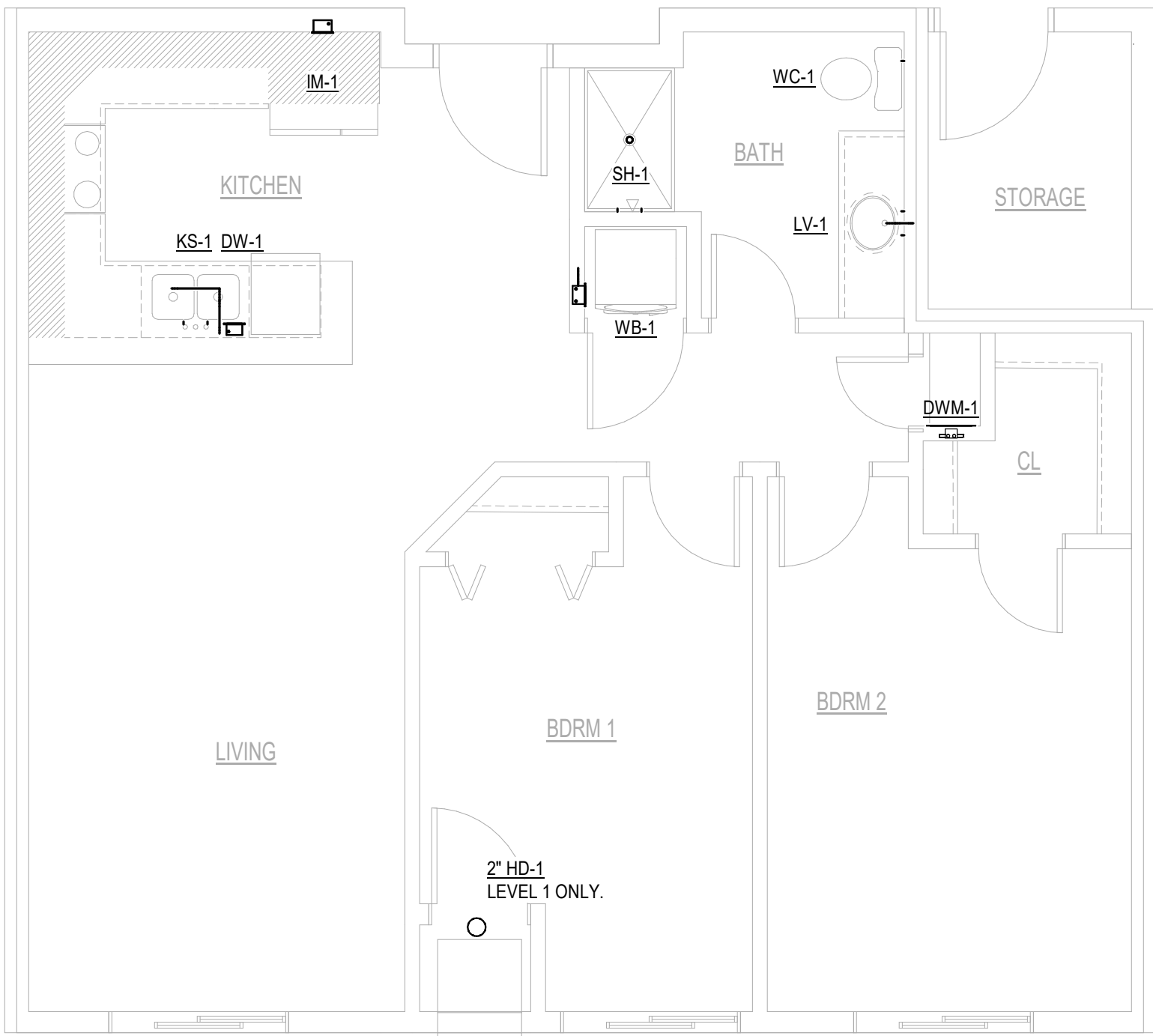
UNIT PLUMBING
PLANS

SHEET NUMBER

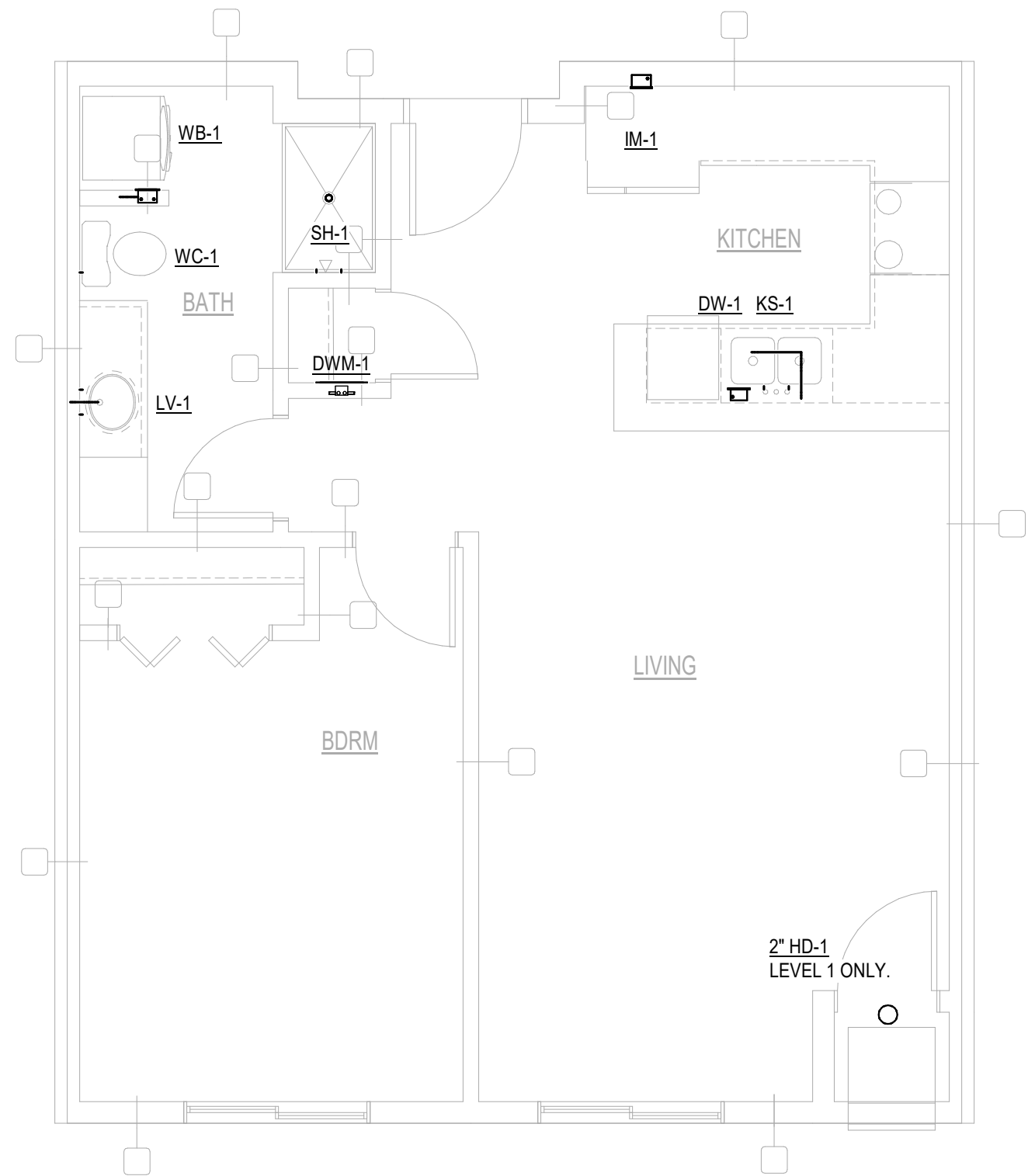
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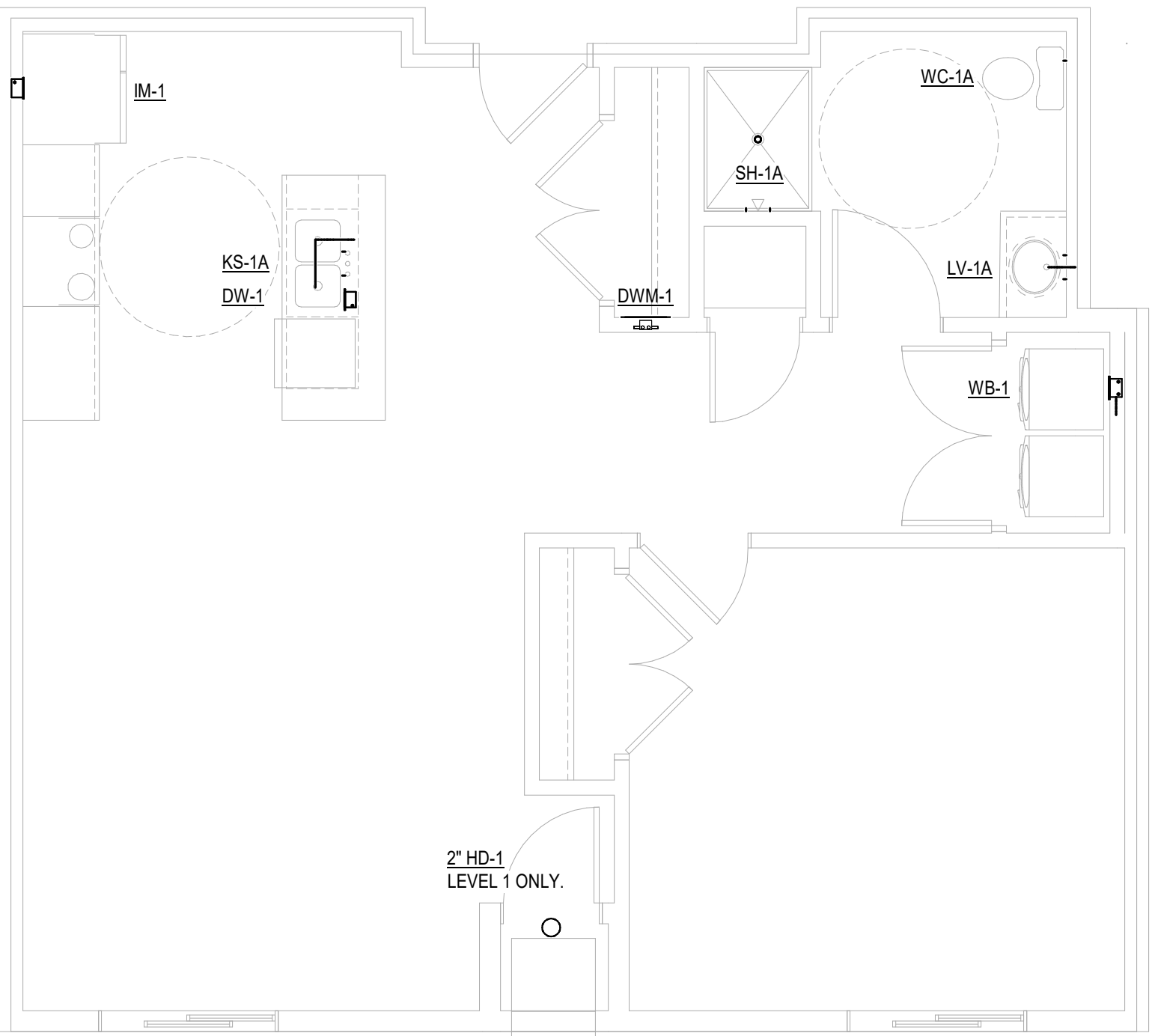
1 UNIT A PLUMBING PLAN
1/4" = 1'-0"



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



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



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



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DATE APPROVED: 8/26/2025
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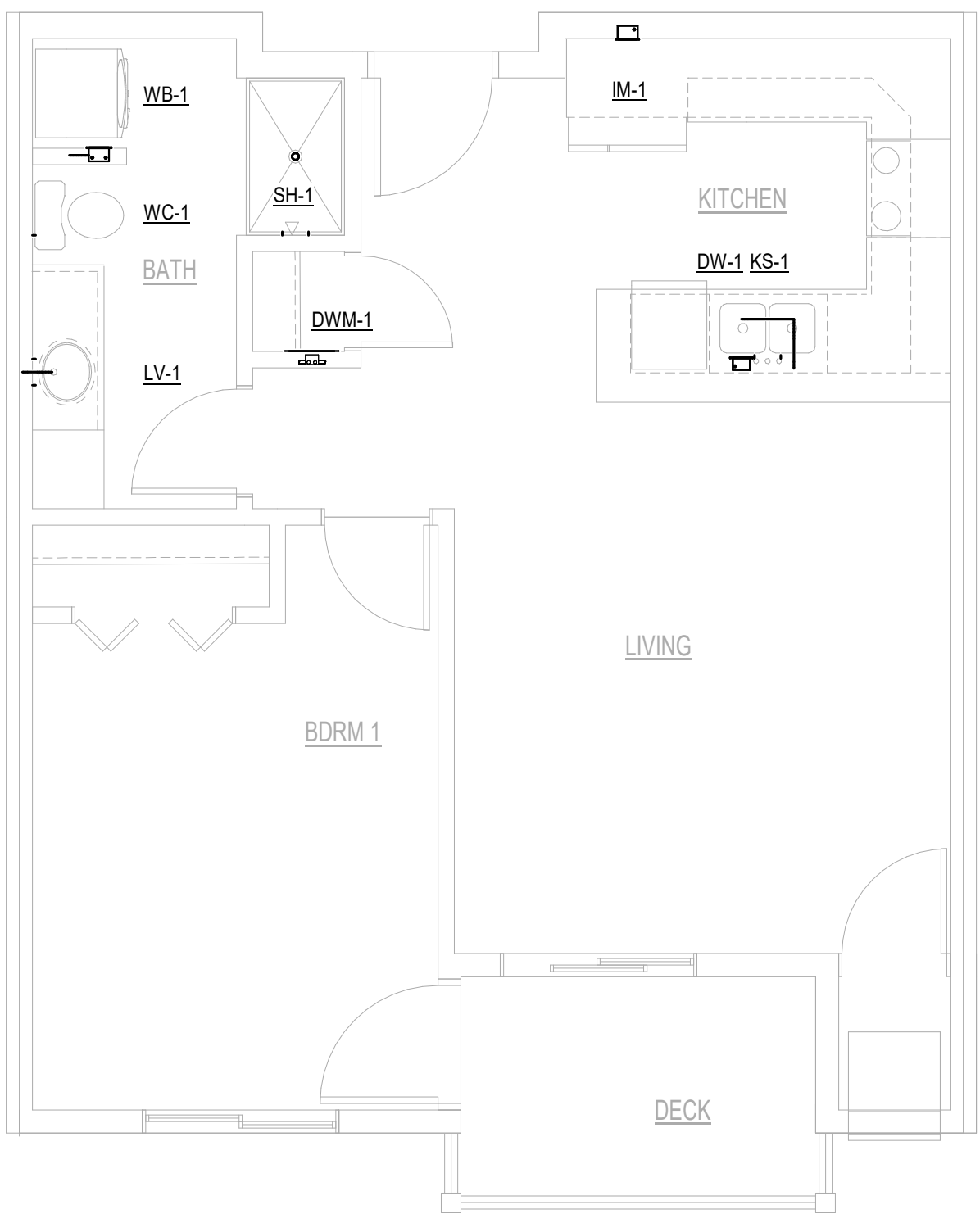
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1 LEVEL 2 PLUMBING PLAN
1/4" = 1'-0"



2 UNIT F PLUMBING PLAN
1/4" = 1'-0"



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



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BKV
GROUP

Architecture
Interior Design
Landscape Architecture
Engineering

222 North Second Street
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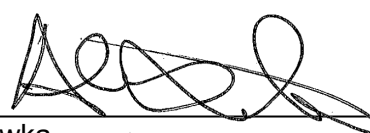
PROJECT TITLE

SUPERIOR
MECHANICAL -
4TH LANE FLATS
KASSON, MN

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Alex Sawka
53200
License Number

07/22/2025
Date

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CHECKED BY: AMS
COMMISSION NUMBER: 1803.28

SHEET TITLE

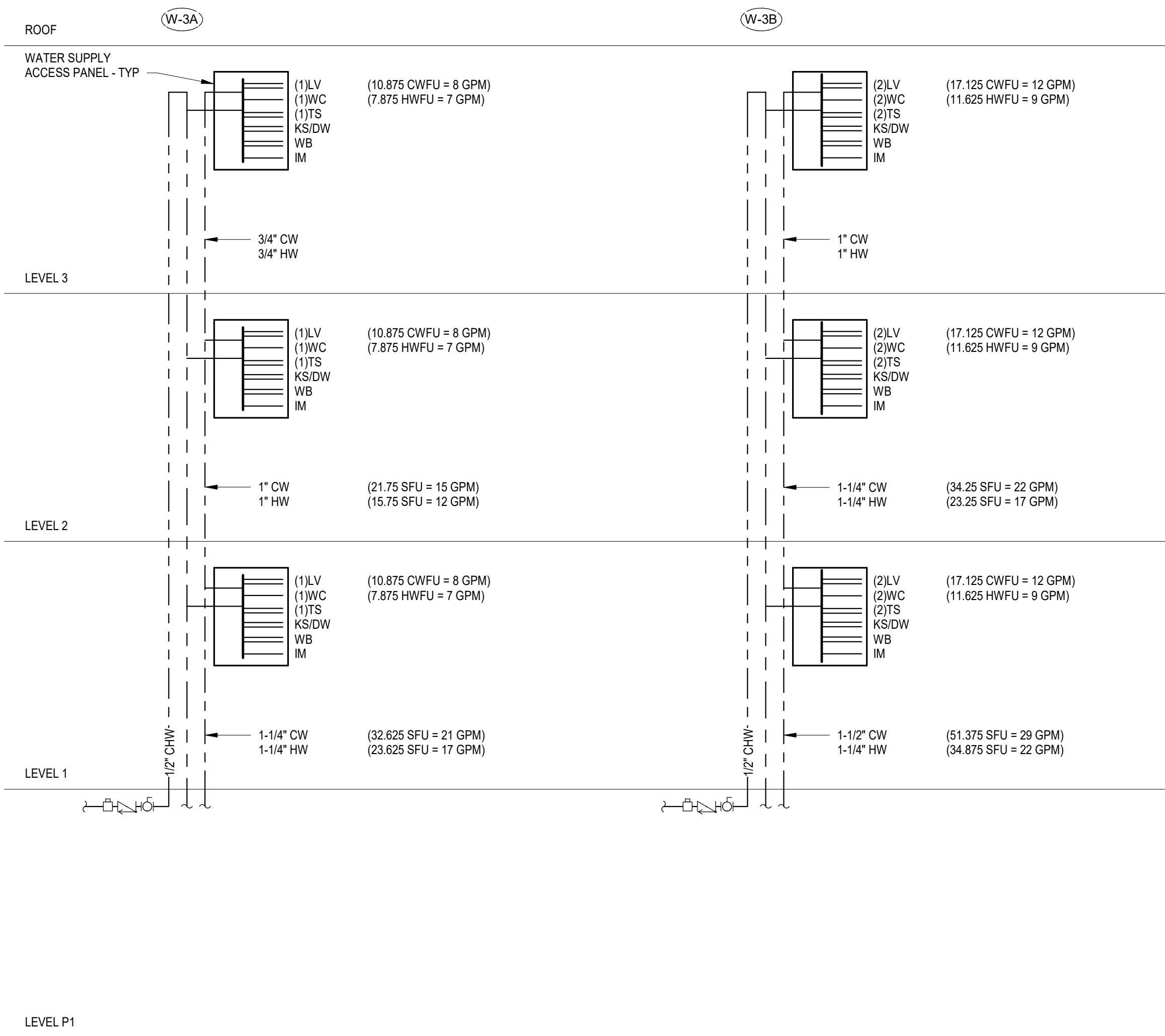
UNIT PLUMBING
PLANS

SHEET NUMBER

P202

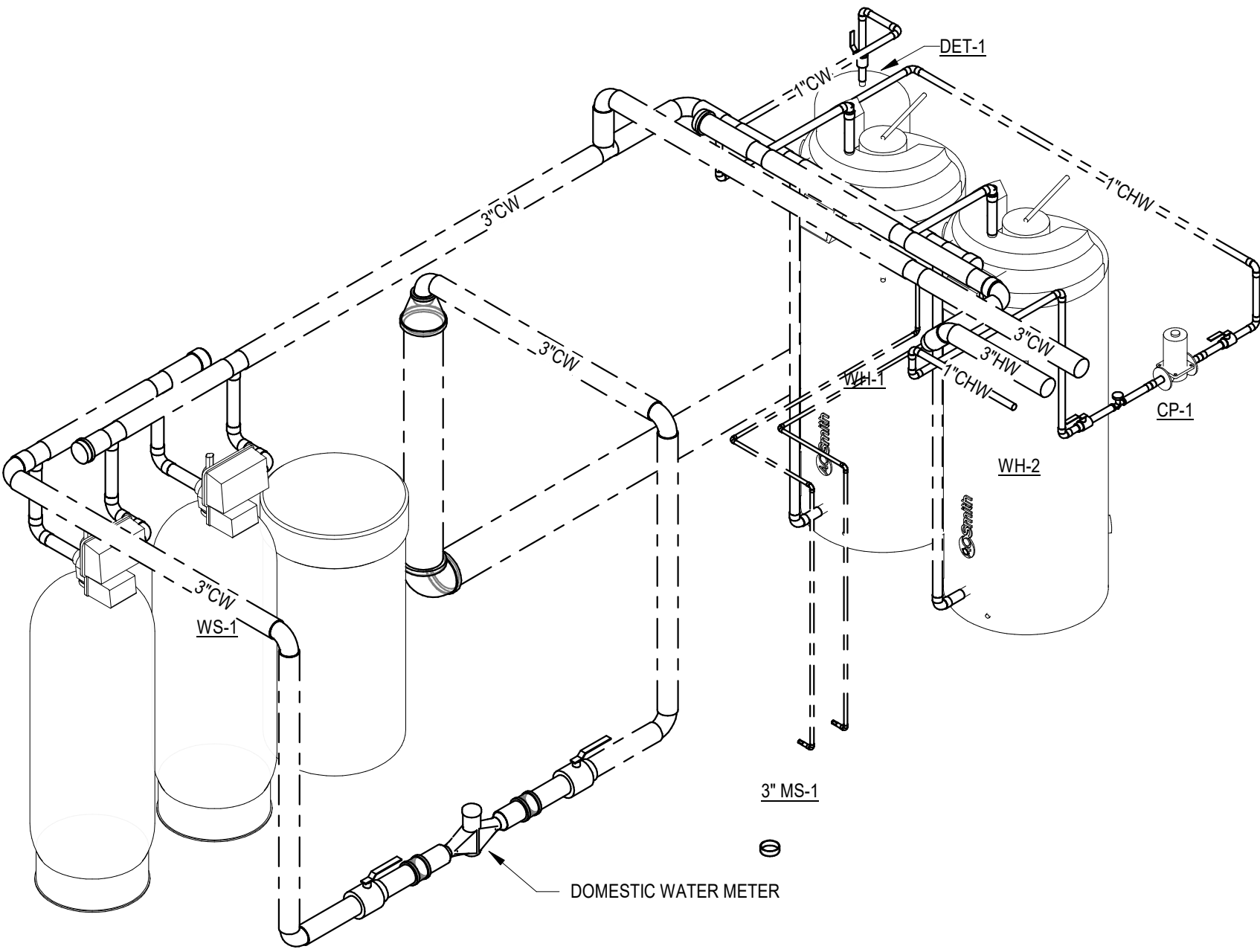
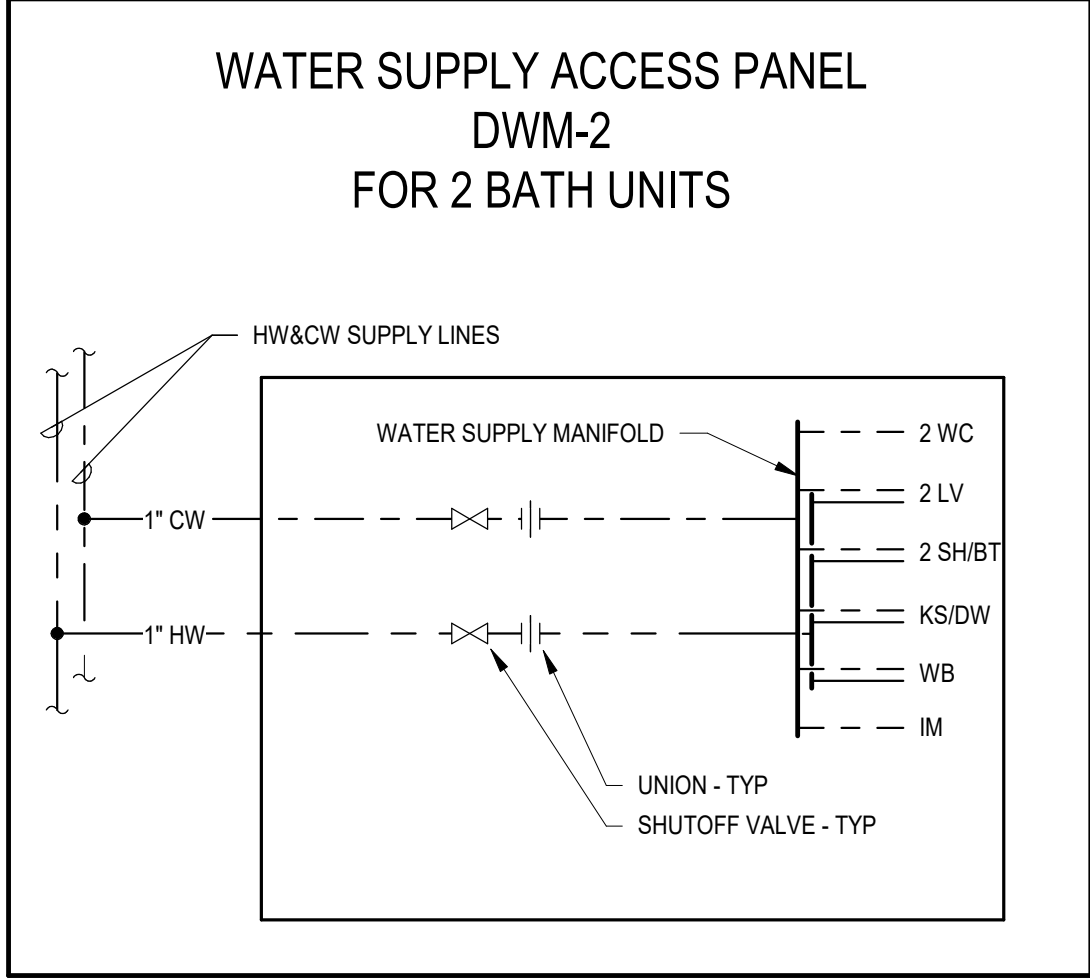
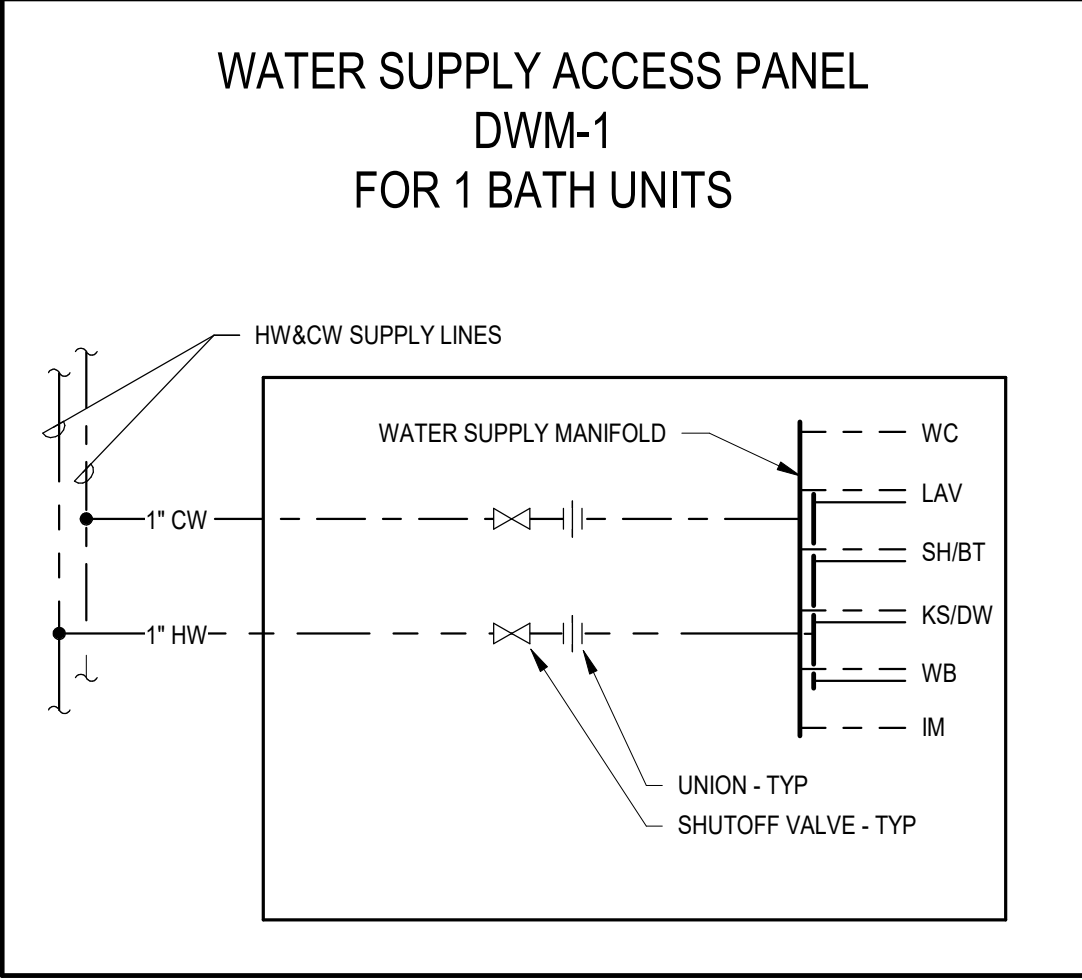
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7/22/2025 10:20:31 AM



DOMESTIC WATER RISER W-3A (LEVELS 1-3)			
	CW	HW	TOTAL
(1) BATHROOM GROUP (LAV, WC, TIS)	6.25	3.75	7.5
(1) KITCHEN SINK/DISHWASHER (KS,DW)	1.125	1.125	1.5
(1) WASHER BOX (WB)	3.0	3.0	4.0
(1) ICE MAKER (IM)	0.5	0.0	0.5
TOTAL PER LEVEL =	10.875	7.875	13.5
x 3 LEVELS			
	32.625	CW SFU	
	23.625	HW SFU	
	40.5	TOTAL SFU	
VALUES PER 2020 MINNESOTA PLUMBING CODE			

DOMESTIC WATER RISER W-3B (LEVELS 1-3)			
	CW	HW	TOTAL
(2) BATHROOM GROUP (LAV, WC, TIS)	12.5	7.5	15.0
(1) KITCHEN SINK/DISHWASHER (KS,DW)	1.125	1.125	1.5
(1) WASHER BOX (WB)	3.0	3.0	4.0
(1) ICE MAKER (IM)	0.5	0.0	0.5
TOTAL PER LEVEL =	17.125	11.625	21.0
x 3 LEVELS			
	51.375	CW SFU	
	34.875	HW SFU	
	63.0	TOTAL SFU	
VALUES PER 2020 MINNESOTA PLUMBING CODE			



2 WATER SUPPLY RISER DIAGRAM



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PROJECT TITLE

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MECHANICAL -
4TH LANE FLATS
KASSON, MN

ISSUE #	DATE	DESCRIPTION
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Alex Sawka
53200
License Number
Date
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COMMISSION NUMBER: 1803.28
SHEET TITLE

DOMESTIC
WATER SUPPLY
RISER DIAGRAMS

SHEET NUMBER

P601

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SUPERIOR
MECHANICAL -
4TH LANE FLATS
KASSON, MN

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53200 07/22/20
License Number Da

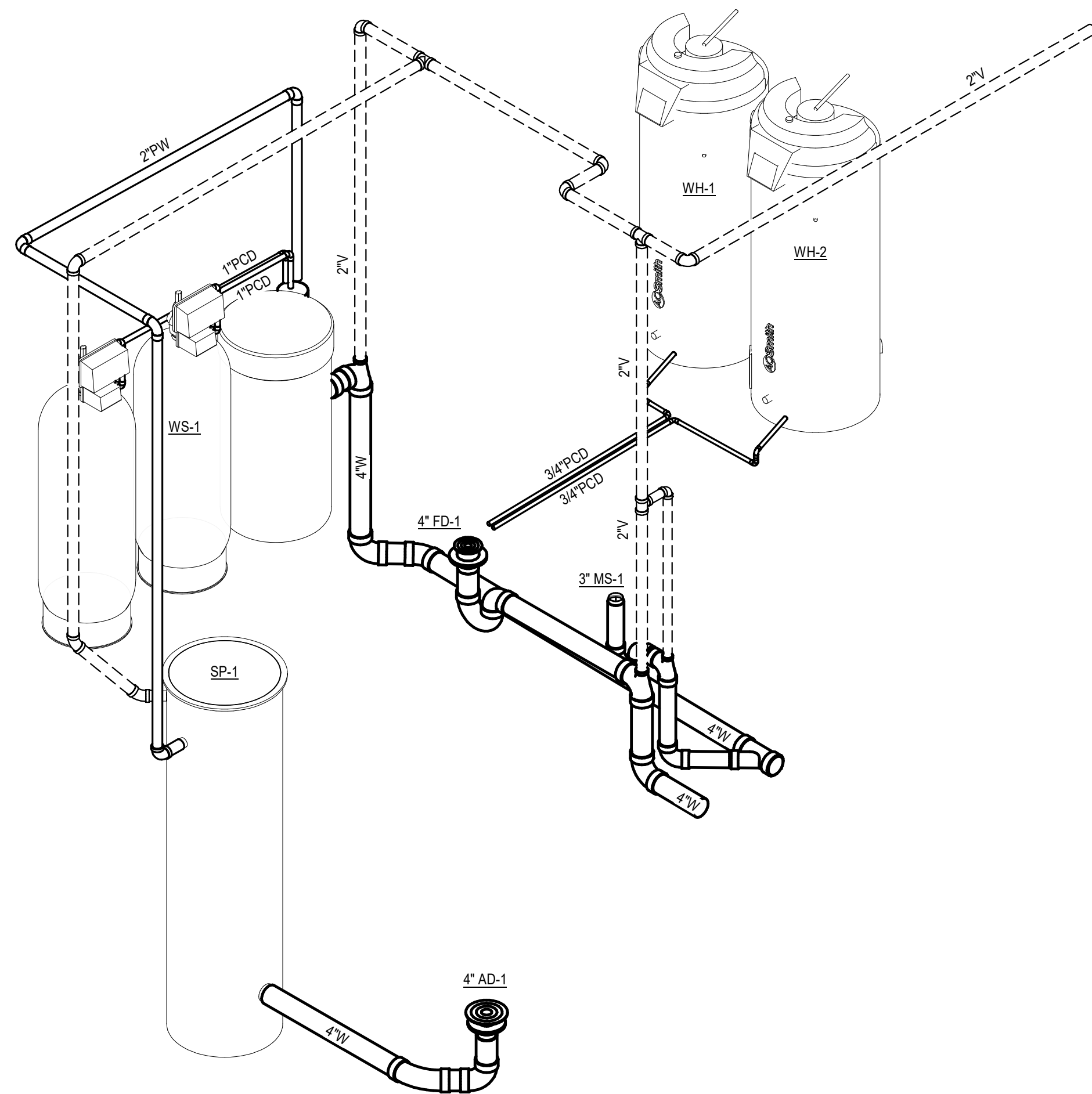
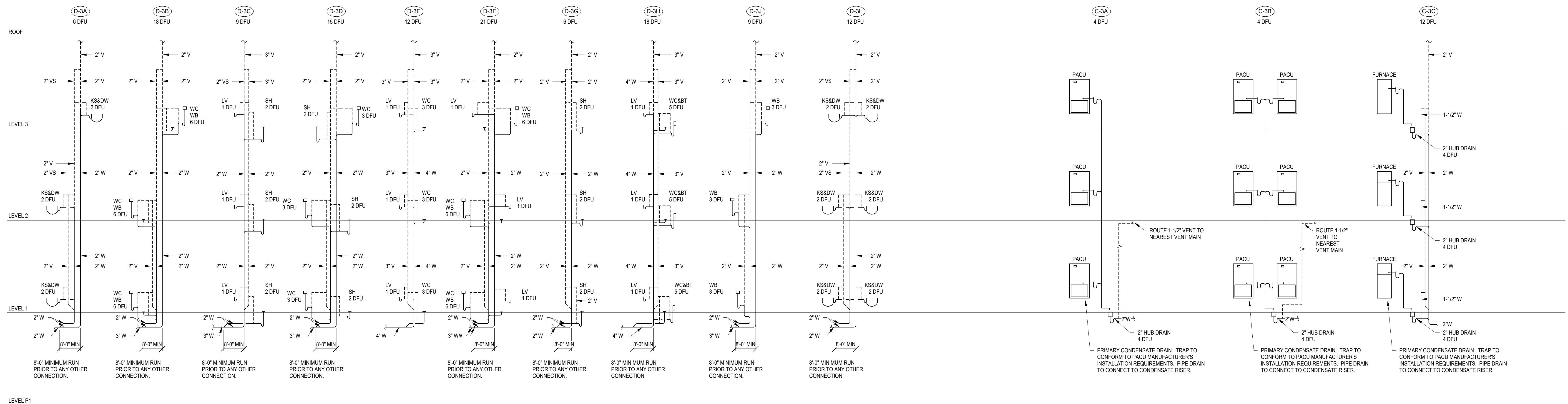
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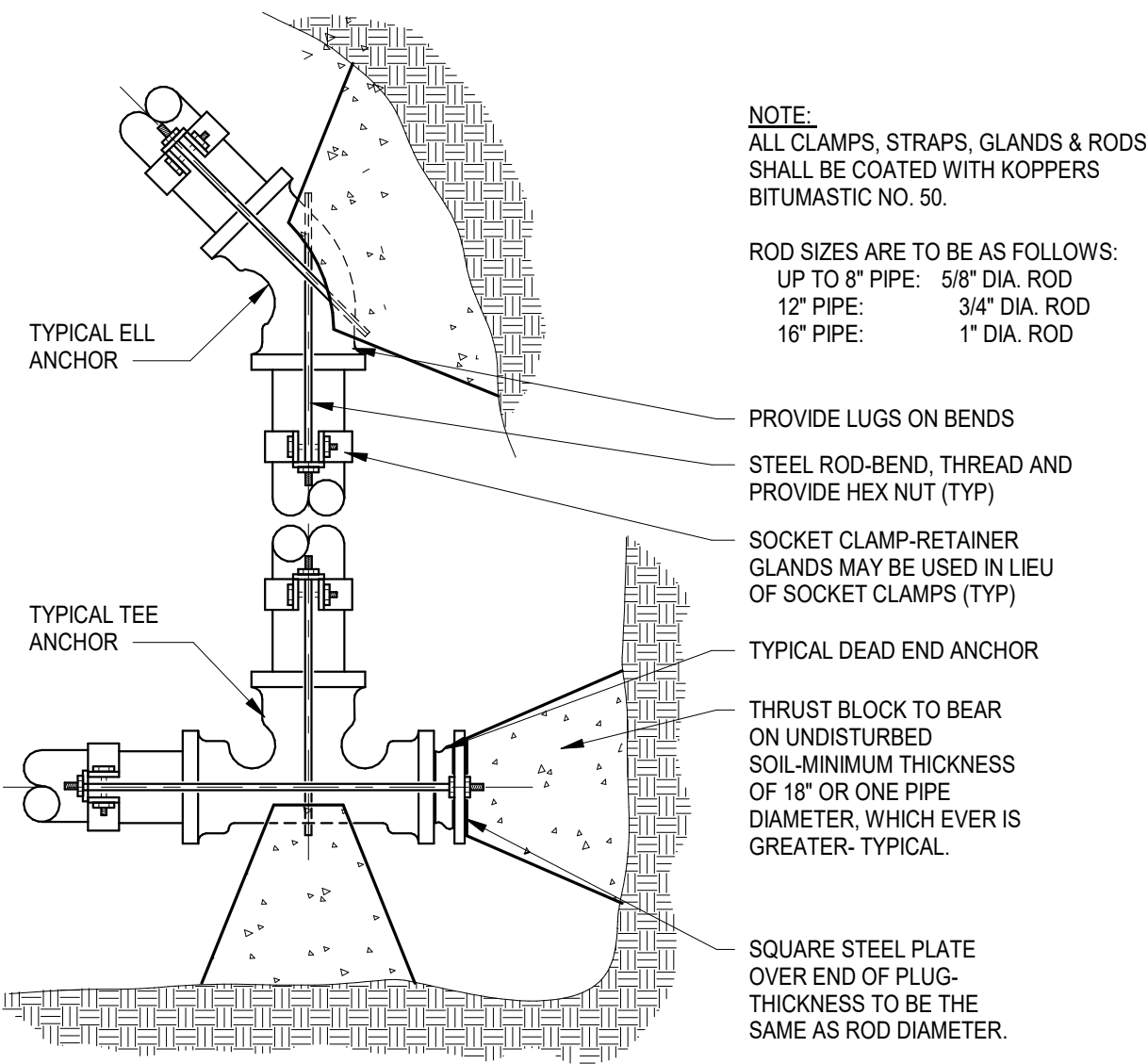
**DOMESTIC
WASTE AND
VENT RISER
DIAGRAMS**

SHEET NUMBER

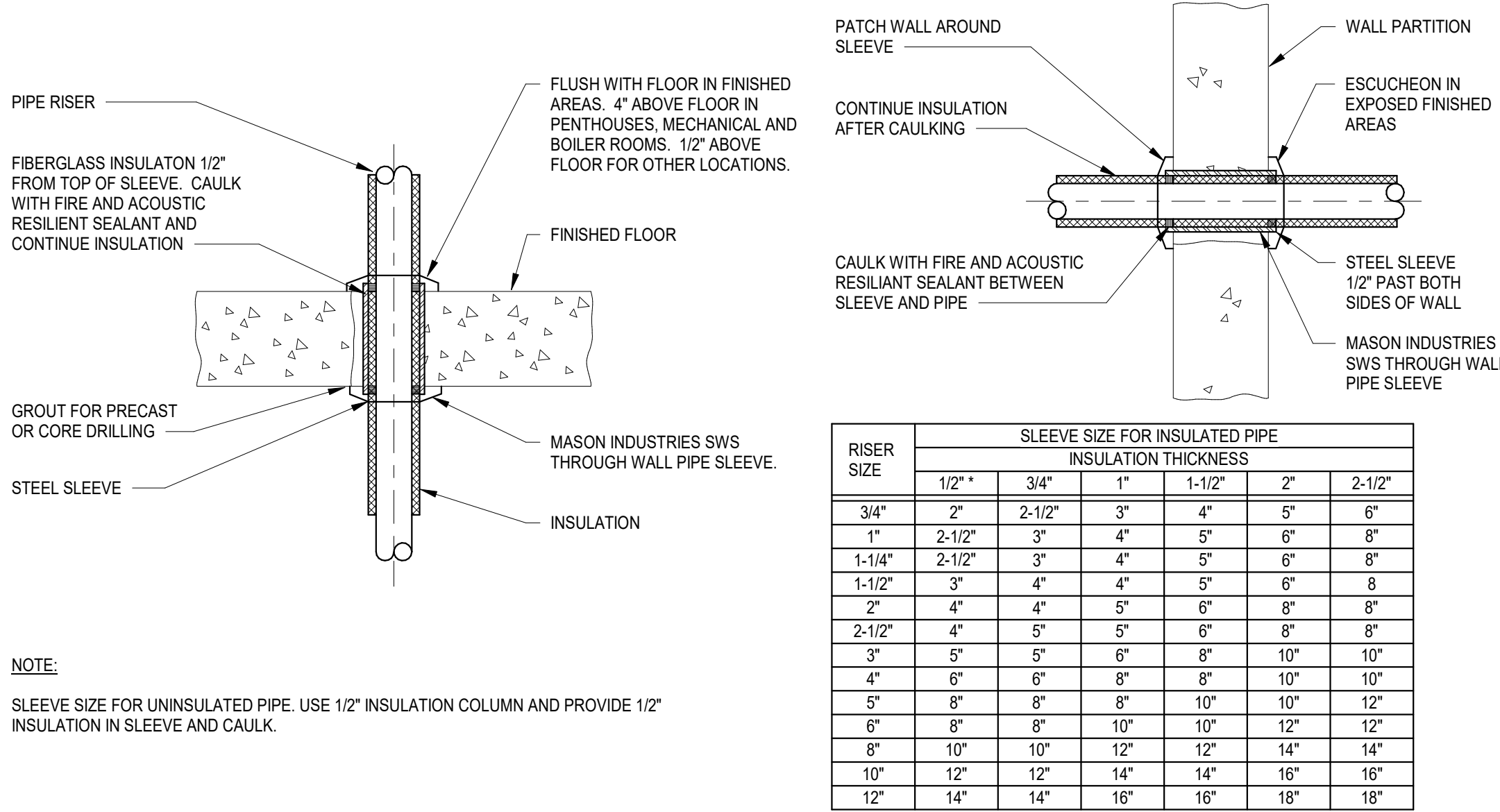
P621

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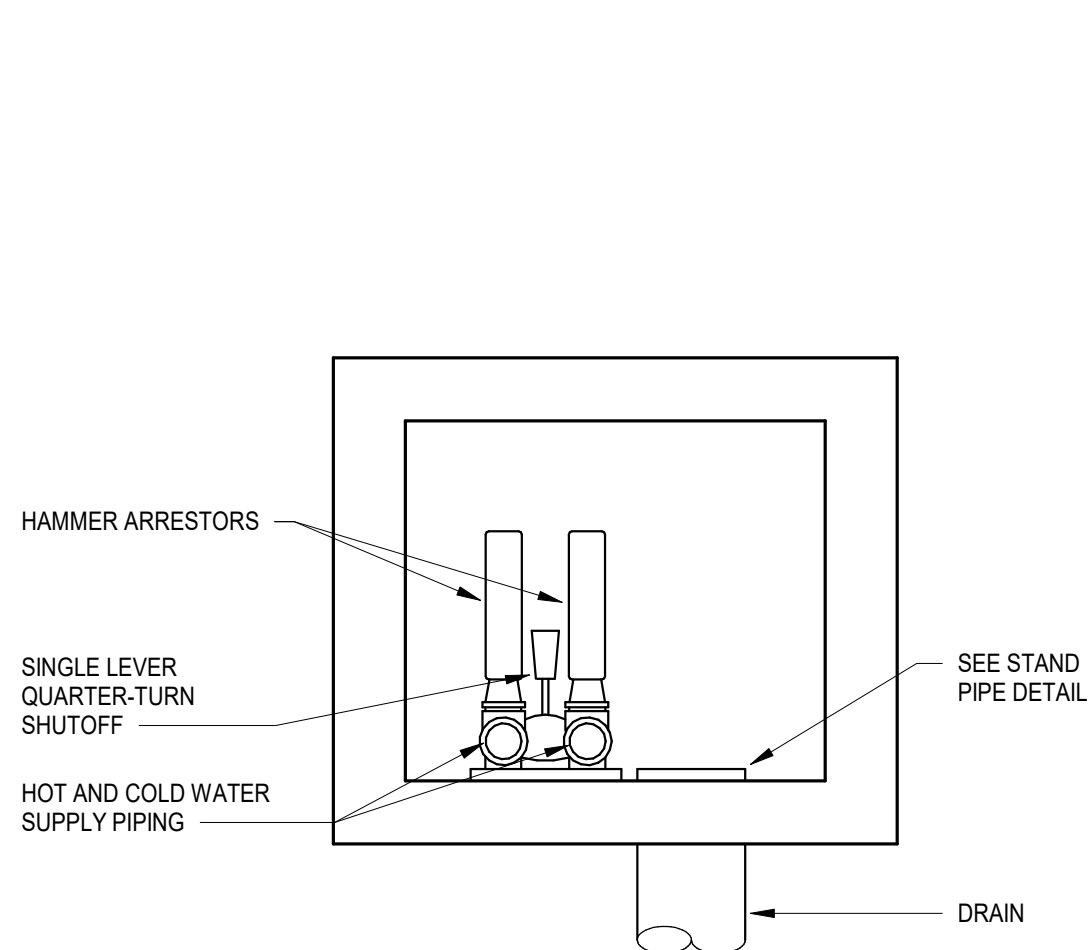




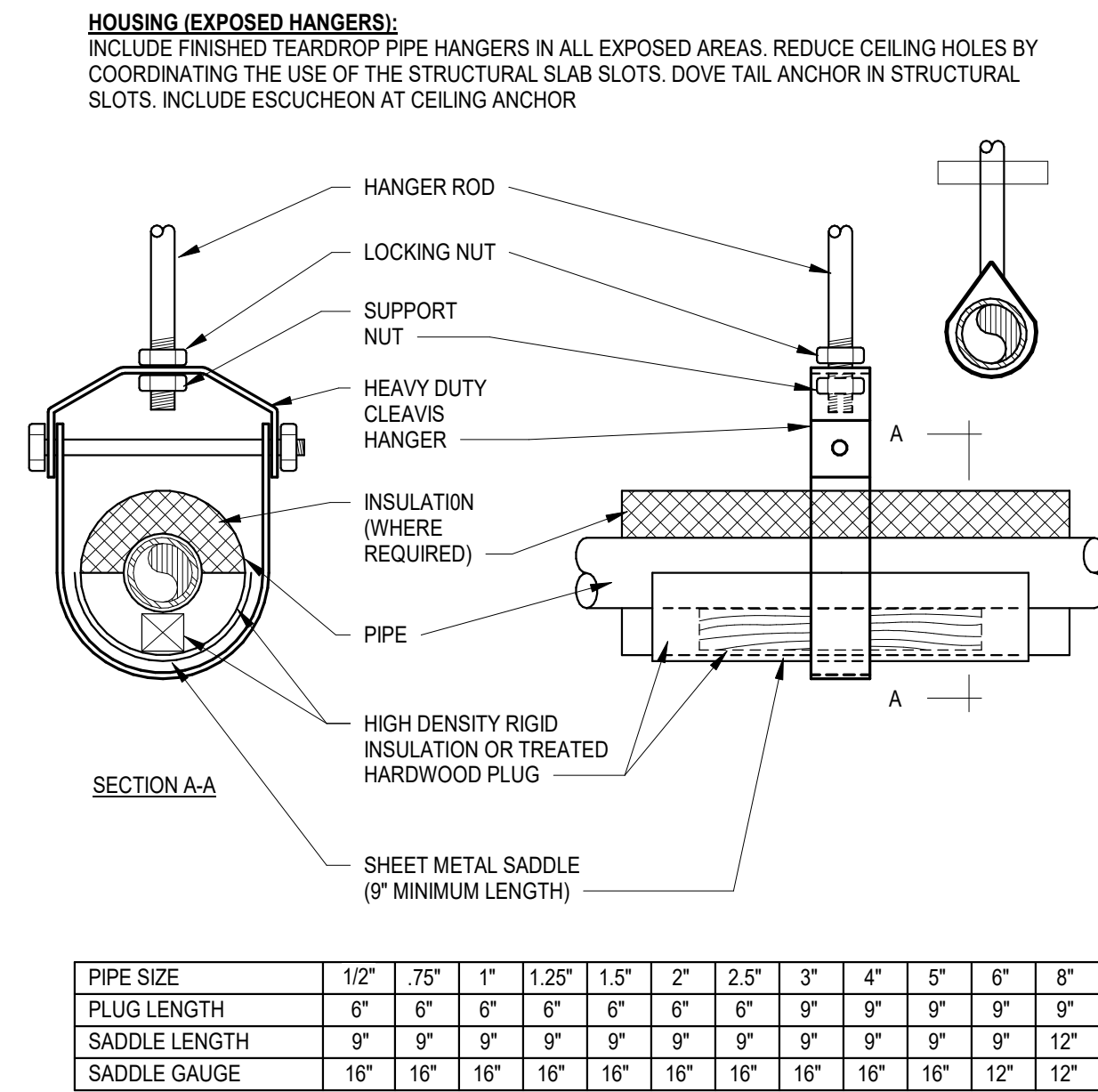
1 WATER MAIN ANCHORING DETAILS
P701 NOT TO SCALE



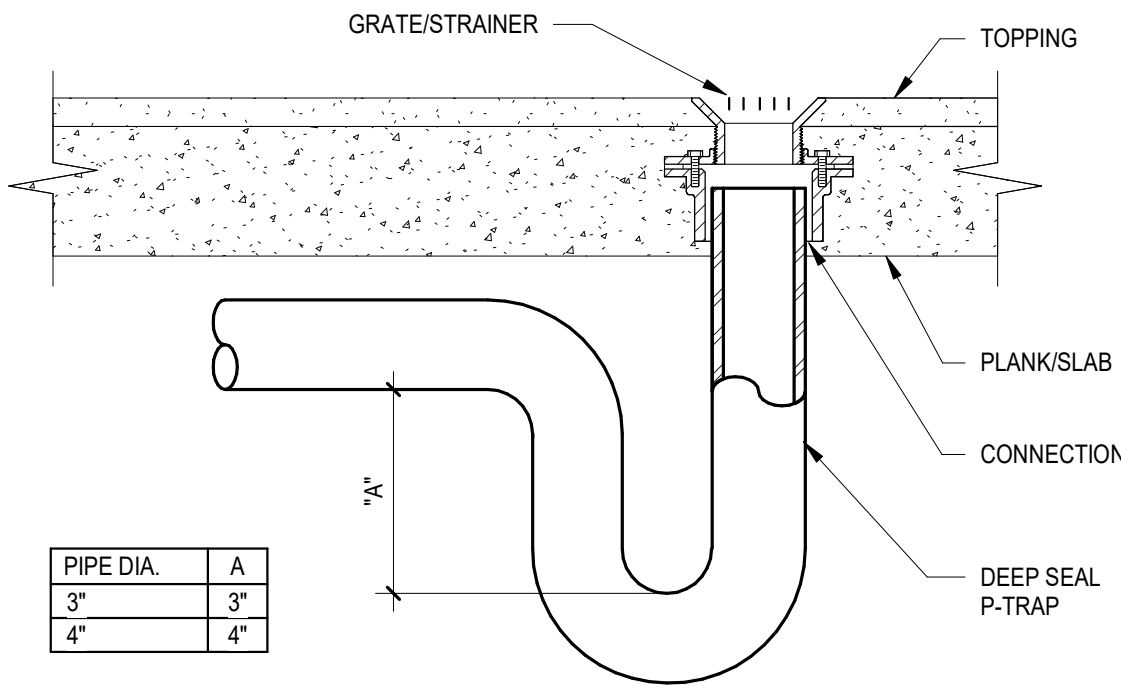
2 PIPE SLEEVE DETAIL
P701 NOT TO SCALE



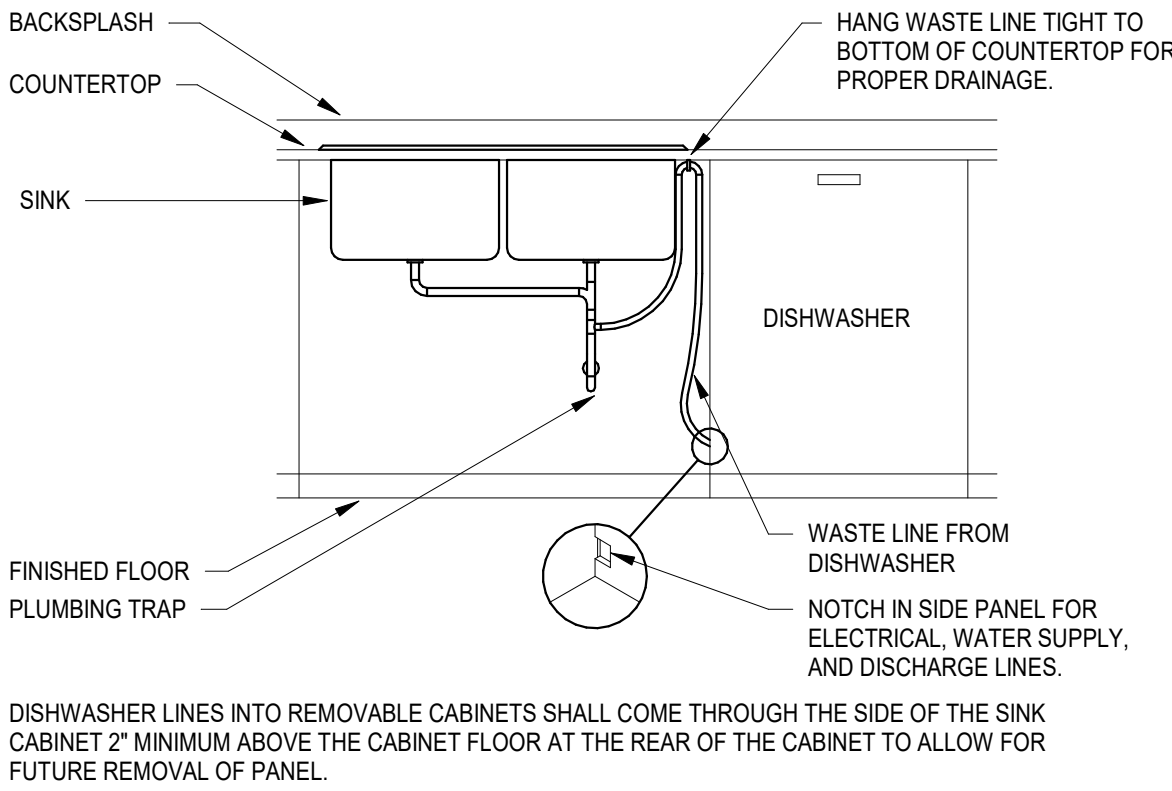
3 WASHER WALL BOX DRAIN AND STAND PIPE DETAIL
P701 NOT TO SCALE



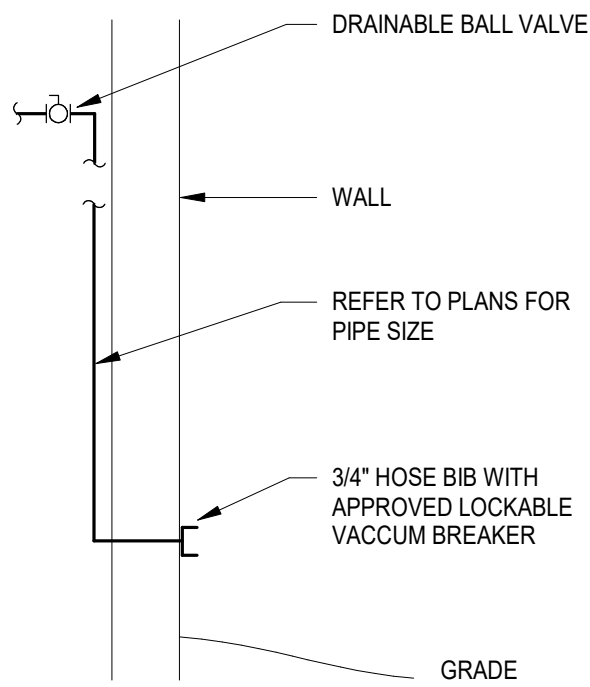
4 PIPE HANGER AND SUPPORT DETAIL
P701 NOT TO SCALE



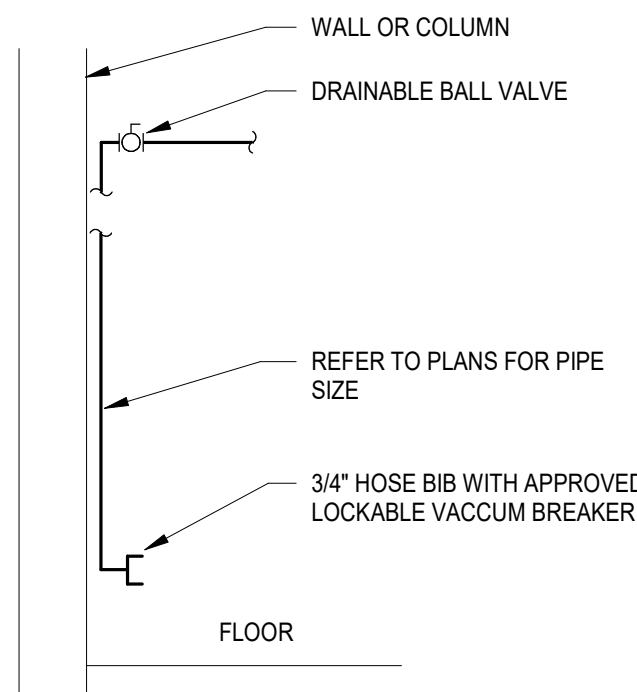
5 FLOOR DRAIN DETAIL
P701 NOT TO SCALE



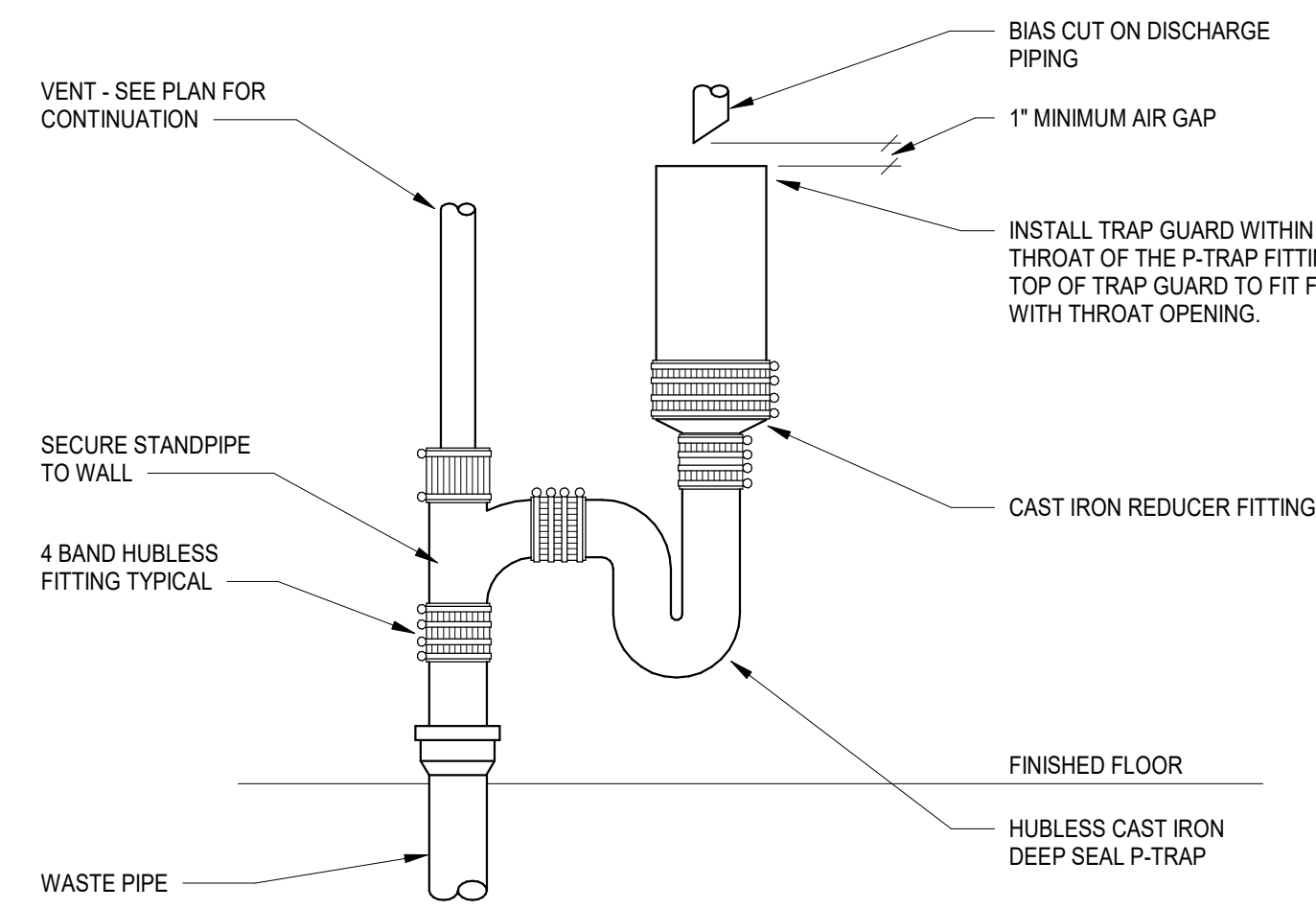
6 DISHWASHER FITTING DETAIL
P701 NOT TO SCALE



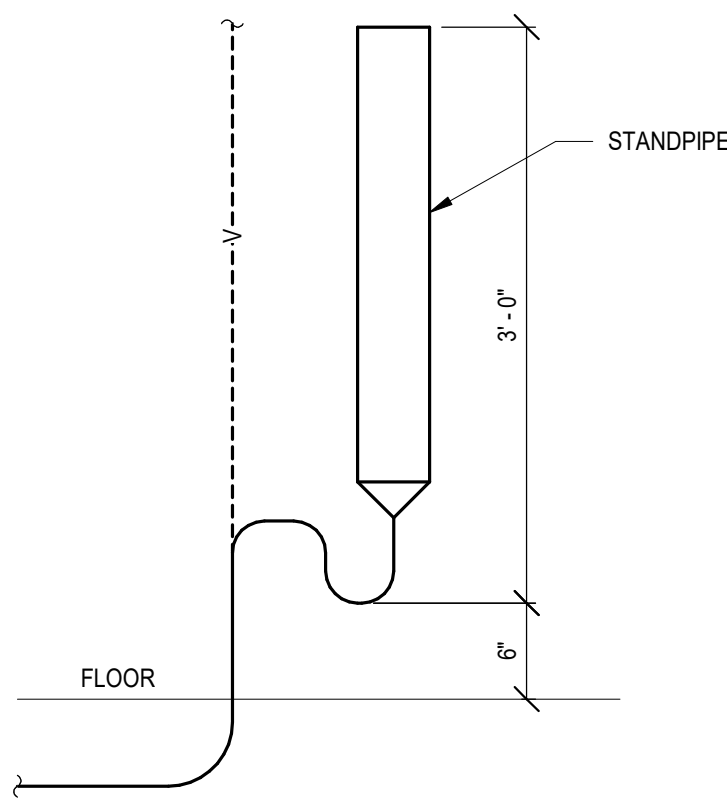
7 EXTERIOR HOSE BIBB DETAIL BY OTHERS
P701 NOT TO SCALE



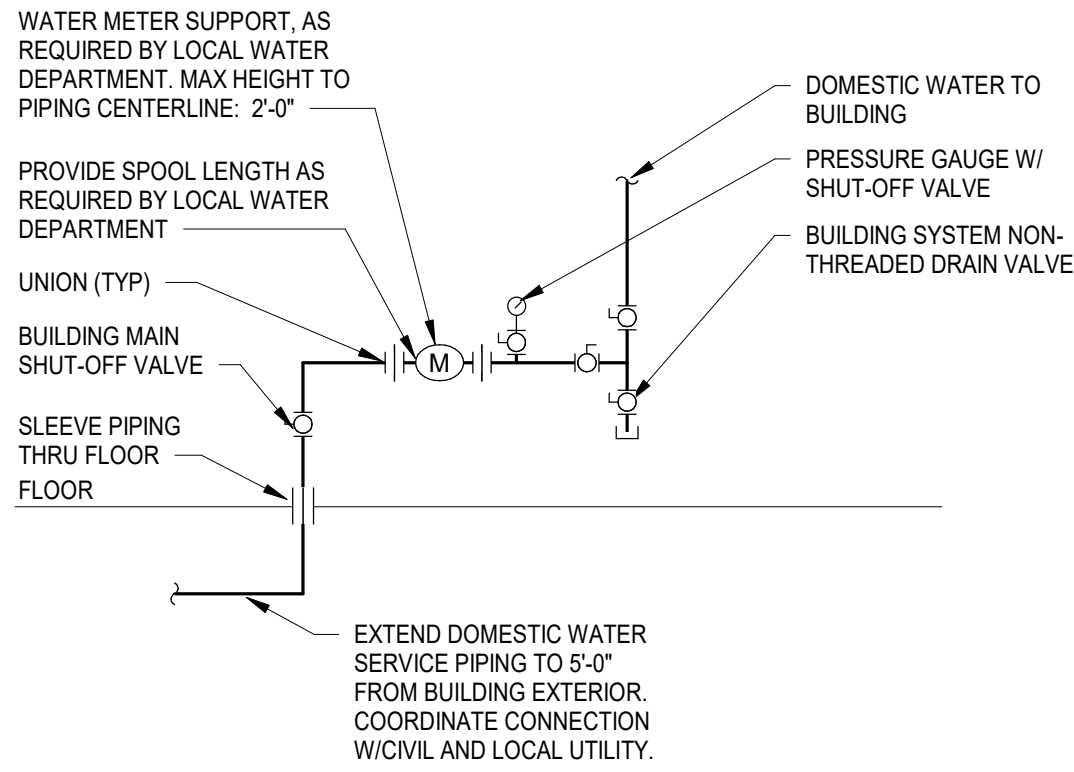
8 INTERIOR HOSE BIBB DETAIL BY OTHERS
P701 NOT TO SCALE



9 OPEN FIXTURE WASTE DETAIL
P701 NOT TO SCALE

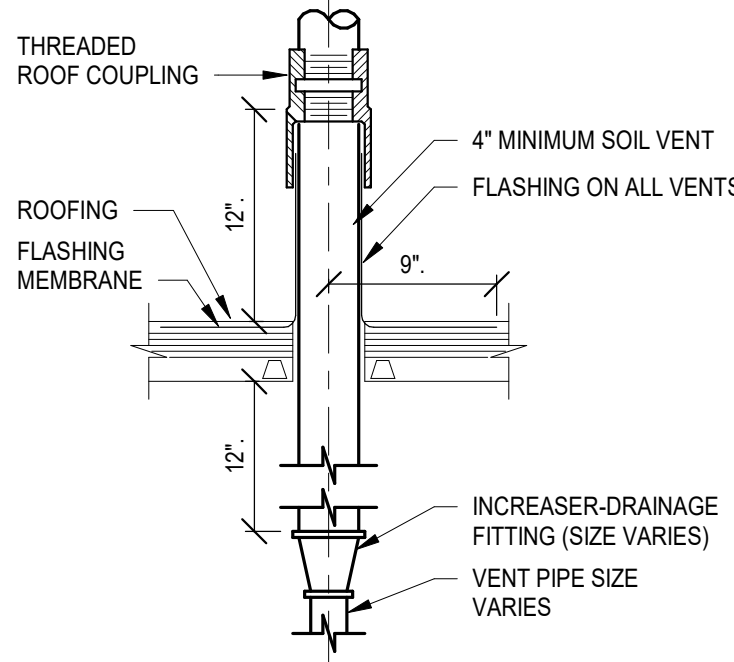


10 WALL BOX DRAIN AND STAND PIPE DETAIL
P701 NOT TO SCALE



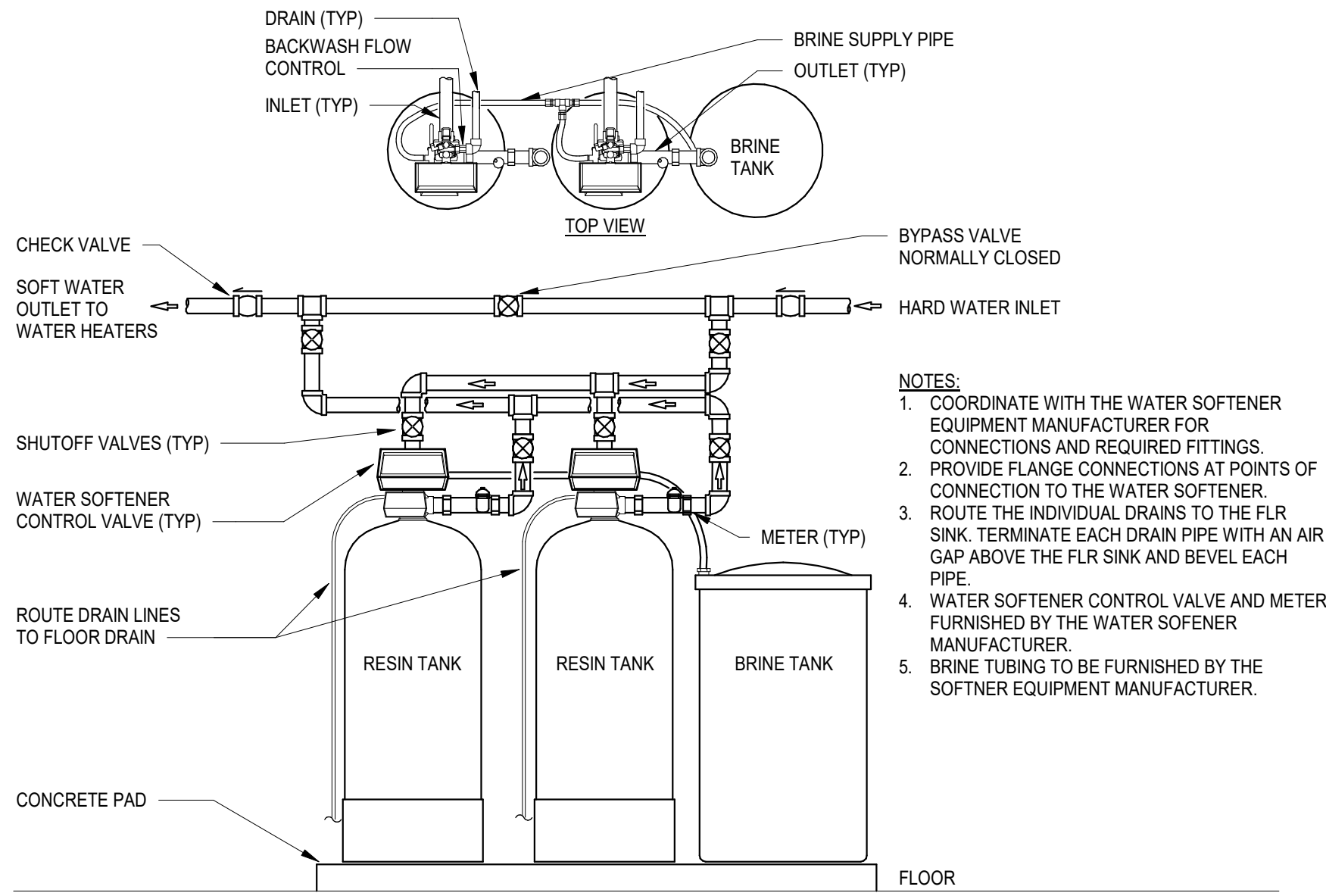
1 DOMESTIC WATER SERVICE DETAIL

P702 NOT TO SCALE



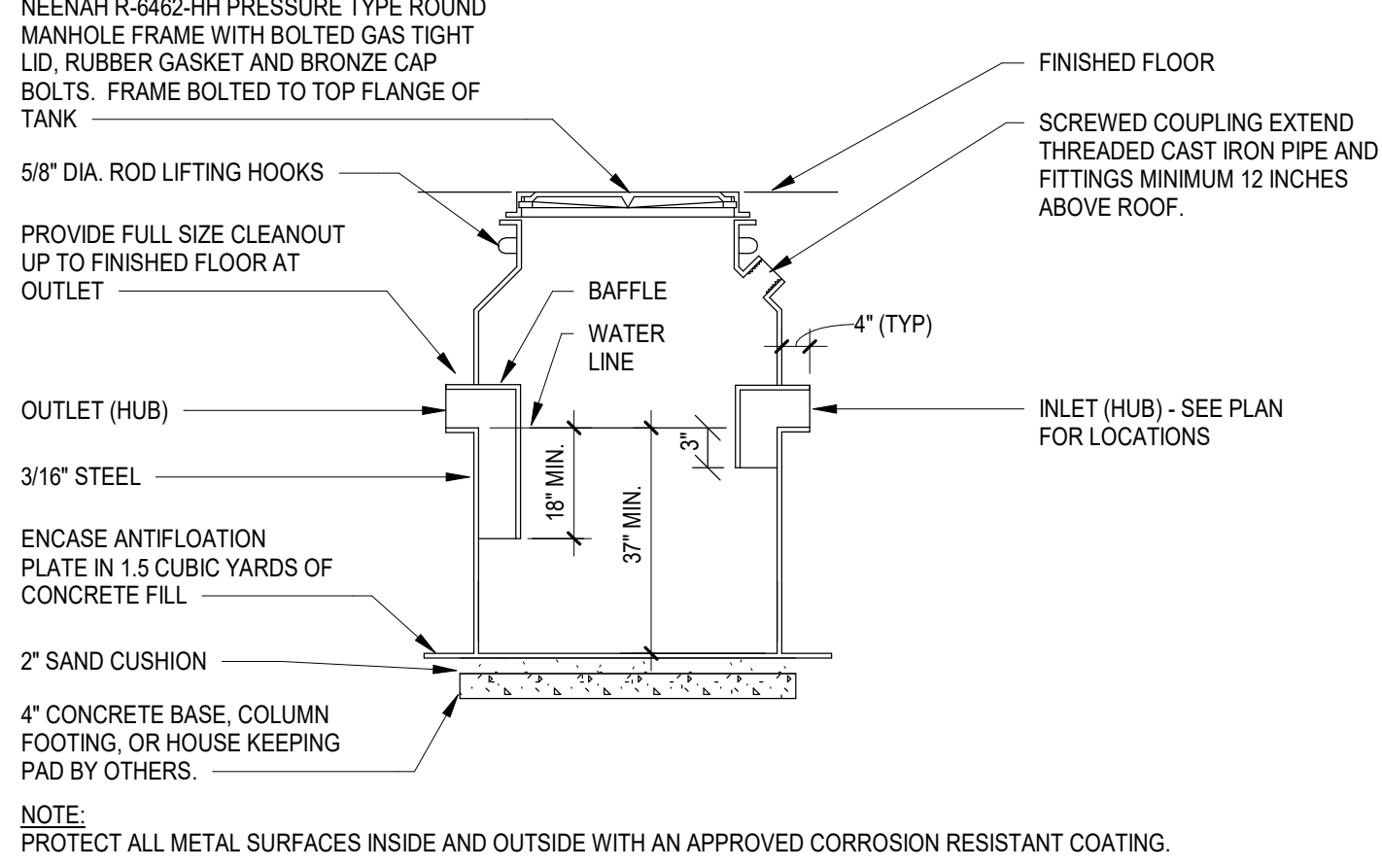
2 PLUMBING VENT THRU ROOF DETAIL

P702 NOT TO SCALE



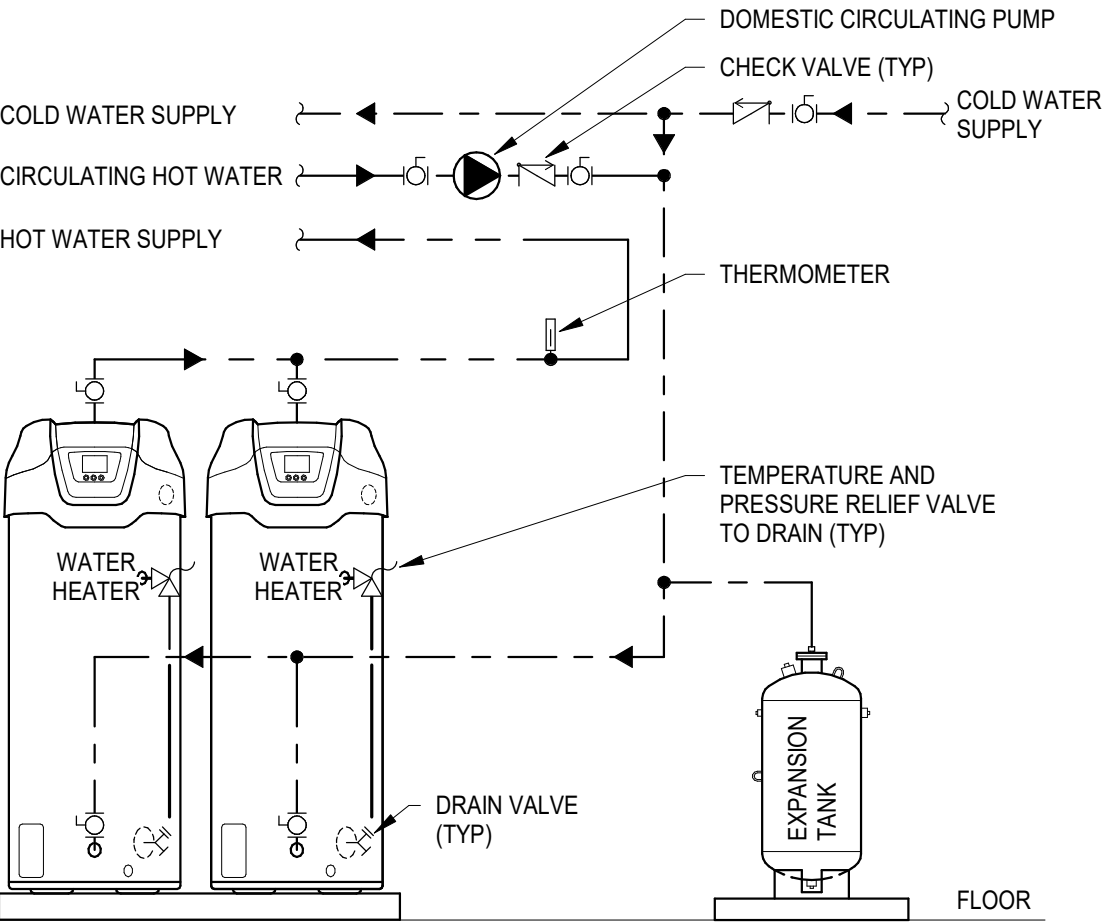
4 WATER SOFTENER PIPING DIAGRAM

P702 NOT TO SCALE



5 FLAMMABLE LIQUIDS SEPARATOR DETAIL

P702 NOT TO SCALE



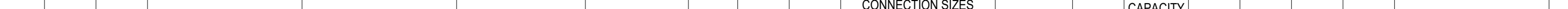
6 GAS WATER HEATER PIPING DIAGRAM

P702 NOT TO SCALE

Autodesk Docs/1803-28 Superior Mech-4th Lane/1803-28_4TH-LANE_MEP_2025.rvt
8/18/2025 12:01:11 PM

PLUMBING FIXTURE SCHEDULE											
FIXTURE NO.	FIXTURE TYPE	LOCATION	NOTES	MOUNTING HEIGHT FLOOR MOUNTED	ROUGH-IN SIZES						
					WASTE	VENT	CW	HW			
WC-1	WATER CLOSET - PRIVATE FLUSH TANK	SEE UNIT PLANS	FIXTURE: PROFLO JERRITT SERIES MODEL PF512WH TANK/PP1400TWH, ROUND BOWL, 12" ROUGH-IN, WHITE, VITRIOUS CHINA, 1.6 GPF, WATERSENSE LABEL, 1000 GRAMS MAP RATING, VALVE: HIGH PERFORMANCE 2" FLUSH VALVE. SEAT: PROFLO MODEL PFTSEC1000, ROUND, CLOSED-FRONT WITH COVER, CONCEALED HINGES WITH SLIP RESISTANT PADS, WHITE, HEAVY DUTY SOLID PLASTIC CONSTRUCTION. ACCESSORIES: (2) BOLT CAPS, (1) ACCOR FLOWTITE MODEL RCS12-7 (F), 12" BRUSHED CHROME/BRAIDED HOSE. ORDER WITH HANDLE ON APPROACH SIDE OF TOILET - SEE PLANS.	FLOOR MOUNTED	3"	2"	1/2"	0"			
WC-1A	WATER CLOSET - PRIVATE FLUSH TANK (ADA COMPLIANT)	SEE UNIT PLANS	FIXTURE: PROFLO JERRITT SERIES MODEL PF2310WH TANK/PP1401TWH ELONGATED BOWL, 10" ROUGH-IN, WHITE, VITRIOUS CHINA, 1.0 GPF, WATERSENSE LABEL, 1000 GRAMS MAP RATING, VALVE: HIGH PERFORMANCE 2" FLUSH VALVE. SEAT: PROFLO MODEL PFTSEC2000, ELONGATED, CLOSED-FRONT WITH COVER, CONCEALED HINGES WITH SLIP RESISTANT PADS, WHITE, HEAVY DUTY SOLID PLASTIC CONSTRUCTION. ACCESSORIES: (2) BOLT CAPS, (1) ACCOR FLOWTITE MODEL RCS12-7 (F), 12" BRUSHED CHROME/BRAIDED HOSE. ORDER WITH HANDLE ON APPROACH SIDE OF TOILET - SEE PLANS.	FLOOR MOUNTED	3"	2"	1/2"	0"			
LV-1	LAVATORY - PRIVATE	SEE UNIT PLANS	FIXTURE: SINK BY OTHERS. FAUCET: PROFLO MODEL PFWSC3017CP, SINGLE HANDLE, 3-HOLE 4" ON CENTER, POLISHED CHROME FINISH, 1.2 GPM, WATERSENSE LABEL. STRAINER:METAL PUSH POP-UP DRAIN INCLUDED WITH FAUCET. ACCESSORIES: (2) ACCOR FLOWTITE MODEL P06LS12-3 (XCN), BRUSHED CHROME/BRAIDED CONNECTORS, 1/2" VALVES, AND ESCUTCHEONS. DEARBORN BRASS MODEL P9702B P-TRAP.		1 1/2"	1 1/2"	1/2"	1/2"			
LV-1A	LAVATORY (ADA) - PRIVATE	SEE UNIT PLANS	FIXTURE: SINK BY OTHERS. FAUCET: PROFLO MODEL PFWSC3017CP, SINGLE HANDLE, 3-HOLE 4" ON CENTER, POLISHED CHROME FINISH, 1.2 GPM, WATERSENSE LABEL. STRAINER:METAL PUSH POP-UP DRAIN INCLUDED WITH FAUCET. ACCESSORIES: (2) BRASSCRAFT 1/4 TURN BRASS BALL VALVE WITH STAINLESS STEEL FLANGE AND ESCUTCHEONS. DEARBORN BRASS MODEL P9702B P-TRAP. TRUEBRO MODEL 102 E-2 TRAP AND SUPPLY COVER.		1 1/2"	1 1/2"	1/2"	1/2"			
MS-1	MOP SINK	SEE PLANS	FIXTURE: MUSTEE MODEL 63M, DURASTONE FIBERGLASS MOP BASIN, 24"L X 24" W X 10"D, INTEGRAL 3" DRAIN, WHITE FINISH. FAUCET: PROFLO MODEL PF1119 FAUCET, 2 HANDLE, 8" CENTER MOUNT, SOLID BRASS WATERWAYS, WALL BRACKET, VACUUM BREAKER, 3/4" HOSE OUTLET, PAIL HOOK, INTERGAL, STOPS, AND CHROME FINISH. STRAINER:PROFLO MODEL PFM80RN, 3" STRAINER AND GASKET. ACCESSORIES: MUSTEE MODEL 66.600, MOP HANGER WITH 3 SPRING-LOADED RUBBER HOLDERS ON 3" X 24" STAINLESS STEEL WALL PLATE. MUSTEE MODEL 65.700, 31" RUBBER SERVICE HOSE AND SPRING-LOADED MOLDED RUBBER HOSE HOLDER ON STAINLESS STEEL WALL PLATE. MUSTEE MODEL 65.403, 24" STAINLESS STEEL BUMPER GUARDS. MUSTEE MODEL 67.2424, 24" STAINLESS STEEL, 12" HIGH, WALL GUARD SET.	FLOOR MOUNTED	3"	1 1/2"	1/2"	1/2"			
KS-1	KITCHEN SINK - PRIVATE	SEE UNIT PLANS	FIXTURE: SINK BY OTHERS. FAUCET:PROFLO TECOPA MODEL PFXC3011CP, SINGLE LEVER HANDLE WITH 2 FUNCTION PULL-DOWN SPRAYER, 1 HOLE MOUNTING, OPTIONAL DECK PLATE INCLUDED FOR 3 HOLE SINK INSTALLATION, POLISHED CHROME, 1.8 GPM. STRAINER:KEENEY 1432S, 430 STAINLESS STEEL, DEEP CUP, BASKET STRAINER WITH LOCKING SHELL. ACCESSORIES: (2) BRASSCRAFT 1/4 TURN BRASS BALL VALVE WITH STAINLESS STEEL FLANGE AND ESCUTCHEONS, DEARBORN BRASS P-TRAP.	UNDERMOUNT	2"	1 1/2"	1/2"	1/2"			
KS-1A	KITCHEN SINK - PRIVATE (ADA COMPLIANT)	SEE UNIT PLANS	FIXTURE: SINK BY OTHERS. FAUCET:PROFLO TECOPA MODEL PFXC3011CP, SINGLE LEVER HANDLE WITH 2 FUNCTION PULL-DOWN SPRAYER, 1 HOLE MOUNTING, OPTIONAL DECK PLATE INCLUDED FOR 3 HOLE SINK INSTALLATION, POLISHED CHROME, 1.8 GPM. STRAINER:KEENEY 1432S, 430 STAINLESS STEEL, DEEP CUP, BASKET STRAINER WITH LOCKING SHELL. ACCESSORIES: (2) BRASSCRAFT 1/4 TURN BRASS BALL VALVE WITH STAINLESS STEEL FLANGE AND ESCUTCHEONS, DEARBORN BRASS P-TRAP, AND TRUEBRO TRAP AND SUPPLY COVERS.	UNDERMOUNT	2"	1 1/2"	1/2"	1/2"			
BT-1	BATH TUB/SHOWER - PRIVATE	SEE UNIT PLANS	FIXTURE: OASIS MODEL TS-4032, 60"x32"x72"-1/2", ONE PIECE FIBERGLASS COMPOSITE CONSTRUCTION, FACTORY INSTALLED GRAB BAR REINFORCEMENT ON THREE SIDES, SLIP-RESISTENT TEXTURED BOTTOM, LEFT OR RIGHT DRAIN, GELCOAT SMOOTH WALL FINISH, WHITE. FAUCET: DELTA MODEL T13420, SHOWER HEAD AT 1.75 GPM, SINGLE LEVER HANDLE, TEMPERATURE CONTROL, DOWNSPOUT WITH DIVERTER, POLISHED CHROME FINISH, WATERSENSE LABEL. DRAIN:PROFLO MODEL PFWS35 W&O HALF KIT, PVC SCHEDULE 40, LIFT & TURN, BRASS DRAIN BODY, CHROME PLATED TRIM. ACCESSORIES: DELTA PRESSURE BALANCE VALVE MODEL R10000-MFW5.	FLOOR MOUNTED	2"	1 1/2"	3/4"	3/4"			
SH-1	SHOWER - PRIVATE	SEE UNIT PLANS	FIXTURE: OASIS MODEL SH-6034, 60"x34"x74"-3/8", ONE PIECE FIBERGLASS COMPOSITE CONSTRUCTION, FACTORY INSTALLED GRAB BAR REINFORCEMENT ON THREE SIDES, SLIP-RESISTENT BOTTOM WITH CENTER DRAIN, GELCOAT SMOOTH WALL FINISH, WHITE. FAUCET: DELTA CLASSIC MODEL T13220, SINGLE LEVER HANDLE, SHOWER HEAD, POLISHED CHROME FINISH, 1.5 GPM, WATER SENSE LABEL. DRAIN:PROFLO MODEL PFP600, PVC DRAIN BODY, WITH STAINLESS STEEL GRID. ACCESSORIES: DELTA PRESSURE BALANCE VALVE MODEL R10000-PFS-MFW5.	FLOOR MOUNTED	2"	1 1/2"	3/4"	3/4"			
SH-1A	SHOWER - PRIVATE (ADA COMPLIANT)	SEE UNIT PLANS	FIXTURE: OASIS MODEL SHMD-6232, 62"x32"x75"-1/4", ONE PIECE FIBERGLASS COMPOSITE CONSTRUCTION, FACTORY INSTALLED GRAB BAR REINFORCEMENT ON THREE SIDES, SLIP-RESISTENT BOTTOM WITH CENTER DRAIN, GELCOAT SMOOTH WALL FINISH, WHITE. FAUCET: DELTA CLASSIC MODEL T13H155-20-C, 24" STAINLESS STEEL SLIDE BAR WITH ADA ADJUSTABLE SLIDE, 3 FUNCTION ADA COMPLIANT METAL DIVERTER LEVER, 1.5 GPM HANDSHOWER WITH 69"-62" STAINLESS STEEL HOSE, POLISHED CHROME FINISH, 1.5 GPM, WATERSENSE LABEL. DRAIN:PROFLO MODEL PFP600, PVC DRAIN BODY, WITH STAINLESS STEEL GRID. ACCESSORIES: DELTA PRESSURE BALANCE VALVE MODEL R10700-UNWS.	FLOOR MOUNTED	2"	1 1/2"	3/4"	3/4"			
DW-1	DISHWASHER	SEE PLANS	FIXTURE: ACCOR FLOWTITE 4ALL MODEL POSLP72-3AK (XL) VALVE, 72" CONNECTOR, MANIFOLD, AND ELBOW. REFER TO PLUMBING SPECIFICATION FOR APPROVED PIPE TYPES.	WALL	0"	0"	0"	1/2"			
IM-1	ICE MAKER	SEE PLANS	FIXTURE: ACCOR FLOWTITE 4ALL BOX MODEL 4BP05-2A(WT), PUSH-ON VALVE WITH STAINLESS STEEL ARRESTER IN WALL BOX. REFER TO PLUMBING SPECIFICATION FOR APPROVED PIPE TYPES. ACCESSORIES:ACCOR FLOWTITE MODEL R21S72-2 (F), 72" BRUSHED CHROME/BRAIDED ICE MAKER CONNECTOR, APPROVED BACKFLOW PREVENTER.	WALL	0"	0"	1/2"	0"			
WB-1	WASHER WALL BOX	SEE PLANS	FIXTURE: ACCOR FLOWTITE 4ALL BOX MODEL XWB05-75-1AT, WALL BOX, PUSH-ON VALVES, (2) BRAIDED STAINLESS STEEL WATER SUPPLY HOSES, WITH STAINLESS STEEL ARRESTERS, 3/4" HOT AND COLD WATER THREADED CONNECTIONS, AND P-TRAP WITH 2" STANDPIPE.	WALL MOUNTED	2"	1 1/2"	1/2"	1/2"			
WH	EXTERIOR WALL HYDRANT	SEE PLANS	FIXTURE: WOODFORD MODEL B67, AWTI-SIPHON, FREEZELESS, CHROME WALL HYDRANT AND BOX, FLUSH MOUNT, LOOSE KEY, UNION ELBOW, WITH 3/4" PIPE THREAD INLET.	WALL MOUNTED	0"	0"	3/4"	0"			

DOMESTIC WATER PUMP SCHEDULE																
TYPE	NO.	LOCATION	SERVES	MANUFACTURER	MODEL	TYPE	PUMP DATA				ELECTRICAL				NOTES	
							GPM	PRESSURE	RPM	MIN. EFF.	CONNECTION SIZES		HP	MOC'P		VOLTS
CP	1	MECH B02	DOMESTIC HOT WATER	BELL & GOSSETT	ECOCIRC 20-18	CIRCULATING PUMP	7	5	3888	0	1"	DISCHARGE 1"	0.5	20	120	1

SUMP PUMP SCHEDULE																	
TYPE	NO.	LOCATION	SERVES	MANUFACTURER	MODEL	PUMP DATA			CONNECTION SIZES		BASIN DATA		ELECTRICAL				NOTES
						GPM	FT. HD.	RPM	SUCTION	DISCHARGE	DIAMETER	DEPTH	CAPACITY (GAL)	HP	MOC'P	VOLTS	
SP		MECH B02	ELEVATOR PIT	WEIR	1413	50	20	1750	4"	2"	2'-0"	7'-6"	180	1.5	20	120	
																	

DOMESTIC WATER HEATER SCHEDULE																					
TYPE	NO.	LOCATION	SERVES	MANUFACTURER	MODEL	TOTAL VOLUME	FUEL	RECOVERY (GPH)	INLET TEMP	OUTLET TEMP	GAS INPUT (BtH)	EFFICIENCY	CONNECTION SIZES				ELECTRICAL			WEIGHT	NOTES
													GAS	CW	INLET	OUTLET	FLA	MOC'P	VOLTS		
WH	1	MECH B02	DOMESTIC HOT WATER	A.O. SMITH	BTH-199	100	NATURAL GAS	235	40	140	199000	97.0	3/4"	1 1/2"	3	3	5.0	20	120	1	1359
WH	2	MECH B02	DOMESTIC HOT WATER	A.O. SMITH	BTH-199	100	NATURAL GAS	235	40	140	199000	97.0	3/4"	1 1/2"	3	3	5.0	20	120	1	1359

DOMESTIC WATER SOFTENER SCHEDULE																				
TYPE	NO.	LOCATION	SERVES	MANUFACTURER	MODEL	CAPACITY GRT/ANK	SERVICE FLOW (GPM)			PRESSURE LOSS			BACKWASH FLOW (GPM)	CONNECTION SIZES		SALT (LBS)	ELECTRICAL			NOTES
							MIN.	CONT.	PEAK	CONT.	PEAK	INLET		DRAIN	FLA		MOC'P	VOLTS	PHASE	
WS	1	MECH B02	DOMESTIC WATER	ROBERT B. HILL CO.	HICAP-0480-2	450000	40	120	170	15	25	12	2"	1"	725	1.3	15	120	1	POWER REQUIREMENTS ARE FOR EACH OF THE 2 CONTROLLERS.

DOMESTIC WATER MANIFOLD SCHEDULE											
TYPE	NO.	LOCATION	SERVES	MANUFACTURER	MODEL	NUMBER OF CIRCUITS	INLETS	OUTLETS	NOTES		
DWM	1	UNIT MECH CLOSET	1 BATH UNITS	VEGA	49143	14	1"	5/8"	VEGA MODEL 50718 ACCESS PANEL		
DWM	2	UNIT MECH CLOSET	2 BATH UNITS	VEGA	49183	18	1"	5/8"	VEGA MODEL 50730 ACCESS PANEL		

DOMESTIC WATER EXPANSION TANK SCHEDULE													
TYPE	NO.	LOCATION	SERVES	MANUFACTURER	MODEL	TANK VOLUME		OPERATING PRESSURE	OPERATING TEMPERATURE		WEIGHT	NOTES	
						TOTAL	ACCEPT.		FILL	RELIEF			FILL
DET	1	MECH B02	DOMESTIC WATER	WATTS	PLT-35	14	6	50	150	50	200	30	

LIQUID SEPARATOR SCHEDULE																
TYPE	NO.	SERVES	LOCATION	MANUFACTURER	MODEL	MOUNTING	FLOW GPM	TANK VOL. LIME	BODY DIMENSIONS			CONNECTION SIZES			WEIGHT	NOTES
									LENGTH	WIDTH	HEIGHT	INLET	OUTLET	VENT		
FW	1	GARAGE FLOOR DRAINAGE	GARAGE	MIDWEST TANK	A1006	IN-FLOOR	12	262	42"	42"	71"	4"	4"	3"	800	

FLOOR AND ROOF DRAINAGE SCHEDULE													
TAG	LOCATION	MANUFACTURER	MODEL	DRAIN				STRAINER					NOTES
				BODY		OUTLET	SIZE			MATERIAL	FINISH		
				MATERIAL	SHAPE		SIZE	LOCATION	DIAMETER			LENGTH	
AD-1	<vibes>	JOSAM	32104	CAST IRON	ROUND	4"	BOTTOM	9"	0"	0"			FOR INSIDE PARKING AREAS
FD-1	SEE PLANS	JOSAM	30004-6A	CAST IRON	ROUND	4"	BOTTOM	6"	0"	0"	NICKEL BRONZE	SATIN	
HD-1	SEE PLANS	JOSAM	30002-6E1-Y	CAST IRON	ROUND	2"	BOTTOM	6"	0"	0"	NICKEL BRONZE	SATIN	HUB DRAIN WITH GASKET AND STRAINER

CONSULTANTS

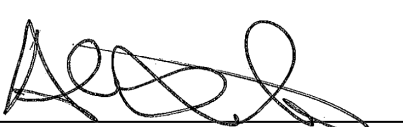
PROJECT TITLE

SUPERIOR
MECHANICAL -
4TH LANE FLATS
KASSON, MN

ISSUE #	DATE	DESCRIPTION
	07/22/2025	PERMIT SET
A	08/18/2025	PERMIT RESPONSE

CERTIFICATION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

	
Alex Sawka 53200 License Number	08/18/2025 Date
DRAWN BY	MMR
CHECKED BY	AMS
COMMISSION NUMBER	1803.28
SHEET TITLE	

PLUMBING
SCHEDULES

SHEET NUMBER

P801



THIS PLAN REVIEWED FOR COMPLIANCE WITH
THE MINNESOTA PLUMBING CODE, CHAPTER 4714.

DATE APPROVED: 8/27/2025
PLAN REVIEW NO.: PB-R2505-0233

REFER TO THE REPORT ISSUED BY THIS DEPARTMENT
FOR ADDITIONAL REQUIREMENTS.