

THE LINE SHOWN ABOVE IS
SCHEDULE FOR INSTALLATION

E

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A

PLUMBING NOTES
1. PROVIDE SLEEVE OR RELIEF ARCH FOR PIPING
PASSING THROUGH OR BELOW THE BUILDING.

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Sarasota, FL 34234
941.351.5996
www.questdgi.com
Cert. of Authorization# C31201
Mechanical Electrical Plumbing Fire Protection

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ORLANDO, FLORIDA 32801
407.926.3000
INFO@BAKERBARRIOS.COM
BAKERBARRIOS.COM
AA0002981 | LC26000427

DANIEL SHEPARD
No. 71536
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
01-05-2023
Jon D. Shepard
PE 0071536

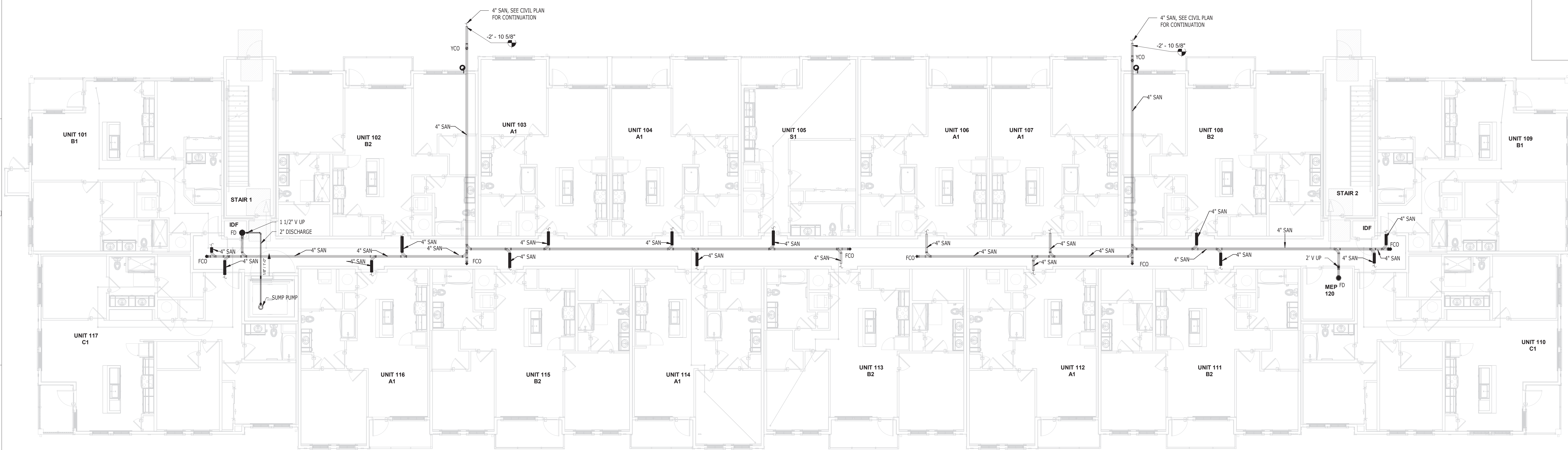
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Δ	DATE	REVISION	SUBMISSION

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MINIMUM BUILDING CODES.

MILHAUS
SR-82
7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905
PROJECT NO:
220035.00
**SANITARY PLAN -
UNDERGROUND**
SHEET NUMBER:
RP1.00



1 SANITARY PLAN - UNDERGROUND
1/8" = 1'-0"

THIS LINE SHOWS THE CENTERLINE OF THE PIPING UNLESS NOTED OTHERWISE.

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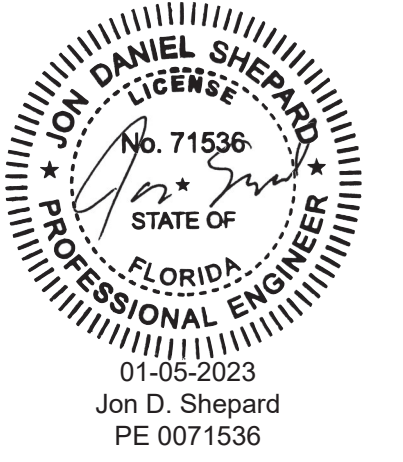
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941.351.5996
www.questdg.com

Contract Authorization: C51201
Mechanical Electrical Plumbing Fire Protection



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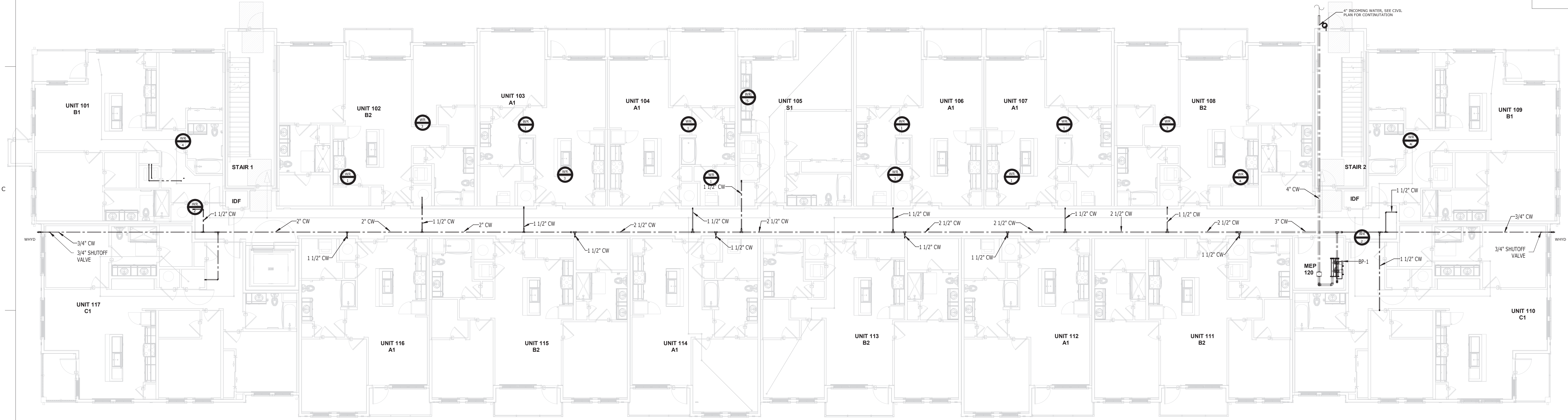
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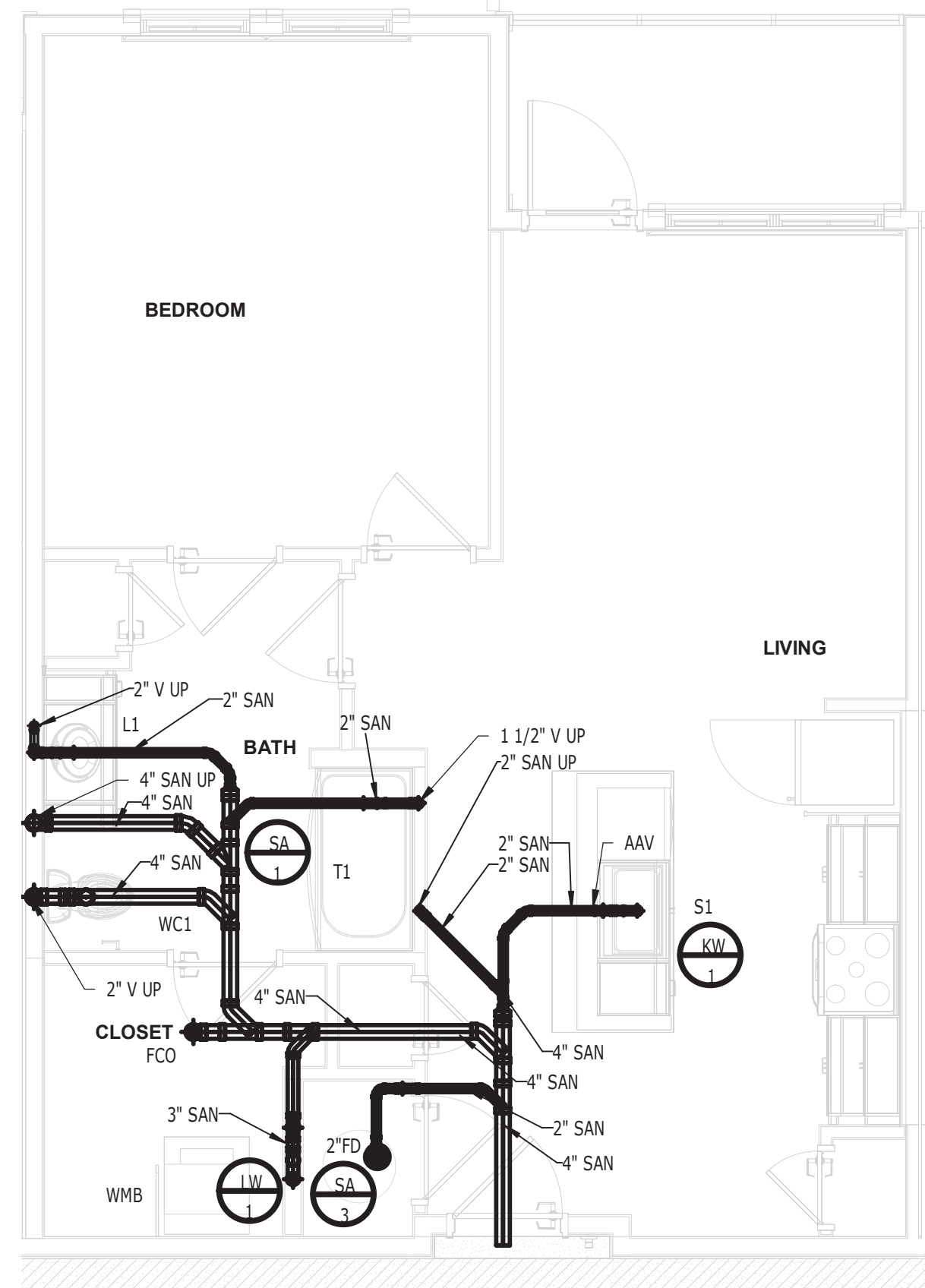


MILHAUS
SR-82
7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905
PROJECT NO:
220035.00
DOMESTIC WATER PLAN - FIRST FLOOR
SHEET NUMBER:
RP2.00

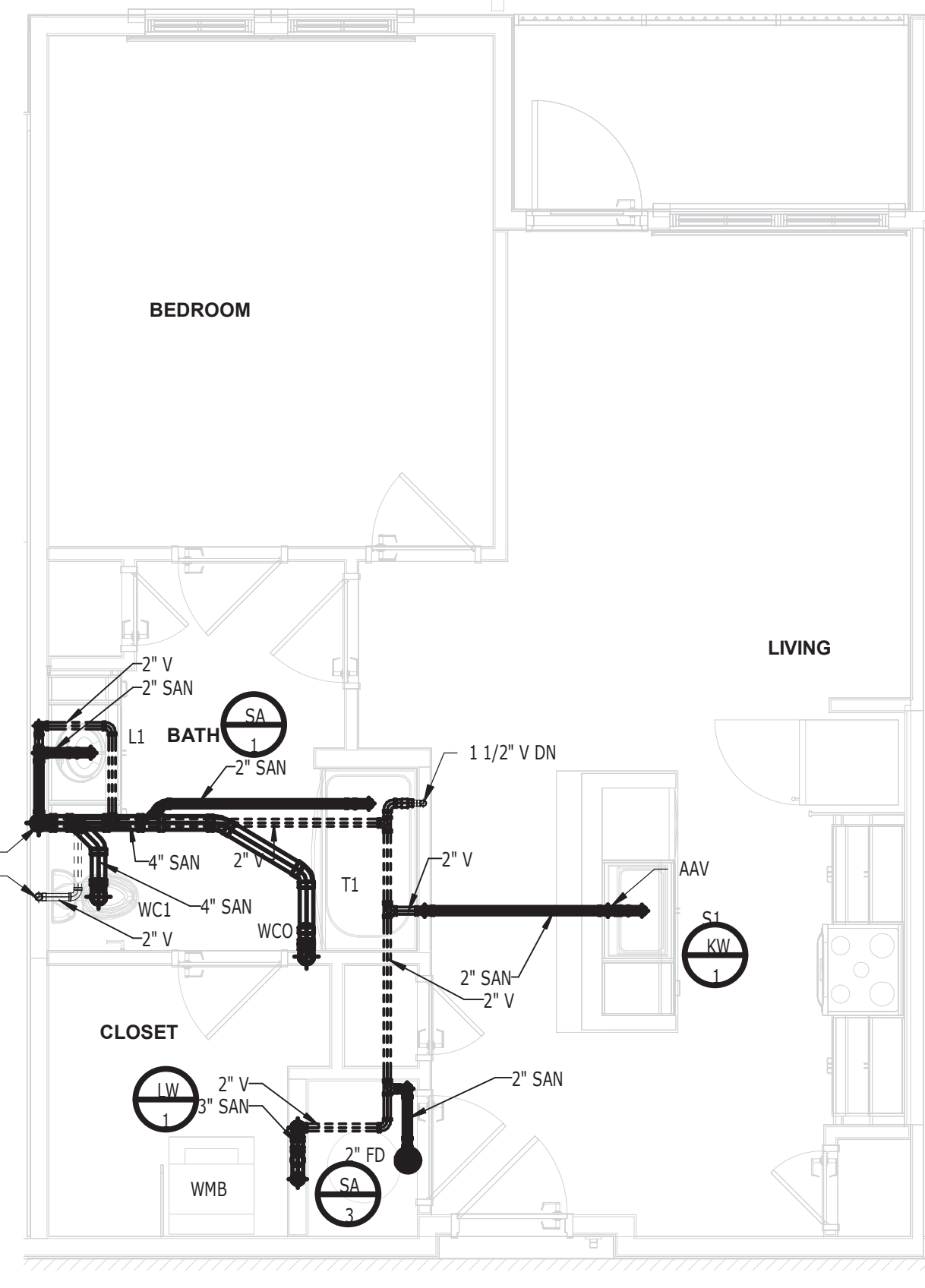
1 DOMESTIC WATER PLAN - FIRST FLOOR
1/8" = 1'-0"



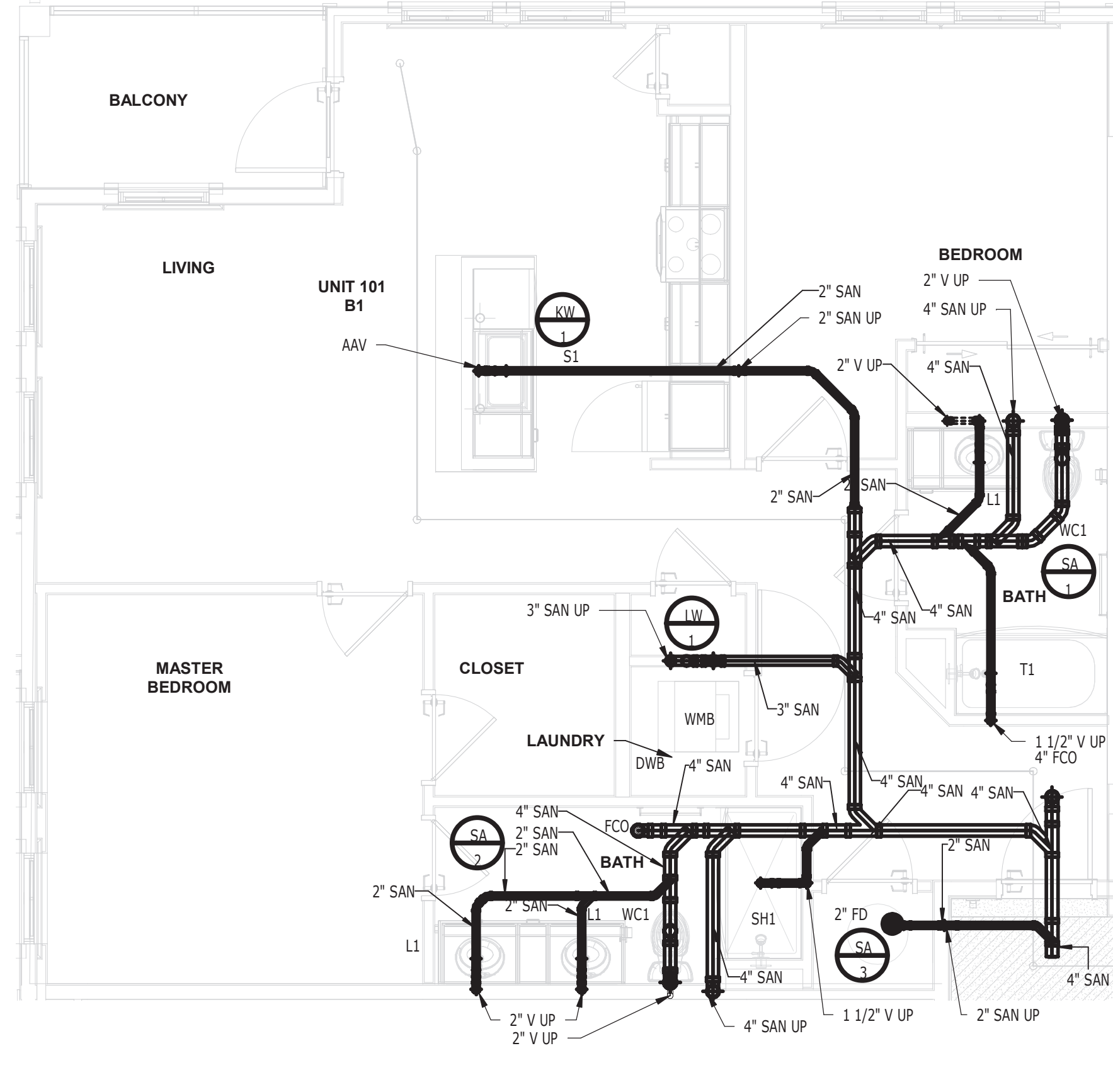
THE LINE SHOWN ABOVE IS
 SUBJECT TO ORIGINAL PAPER SIZE



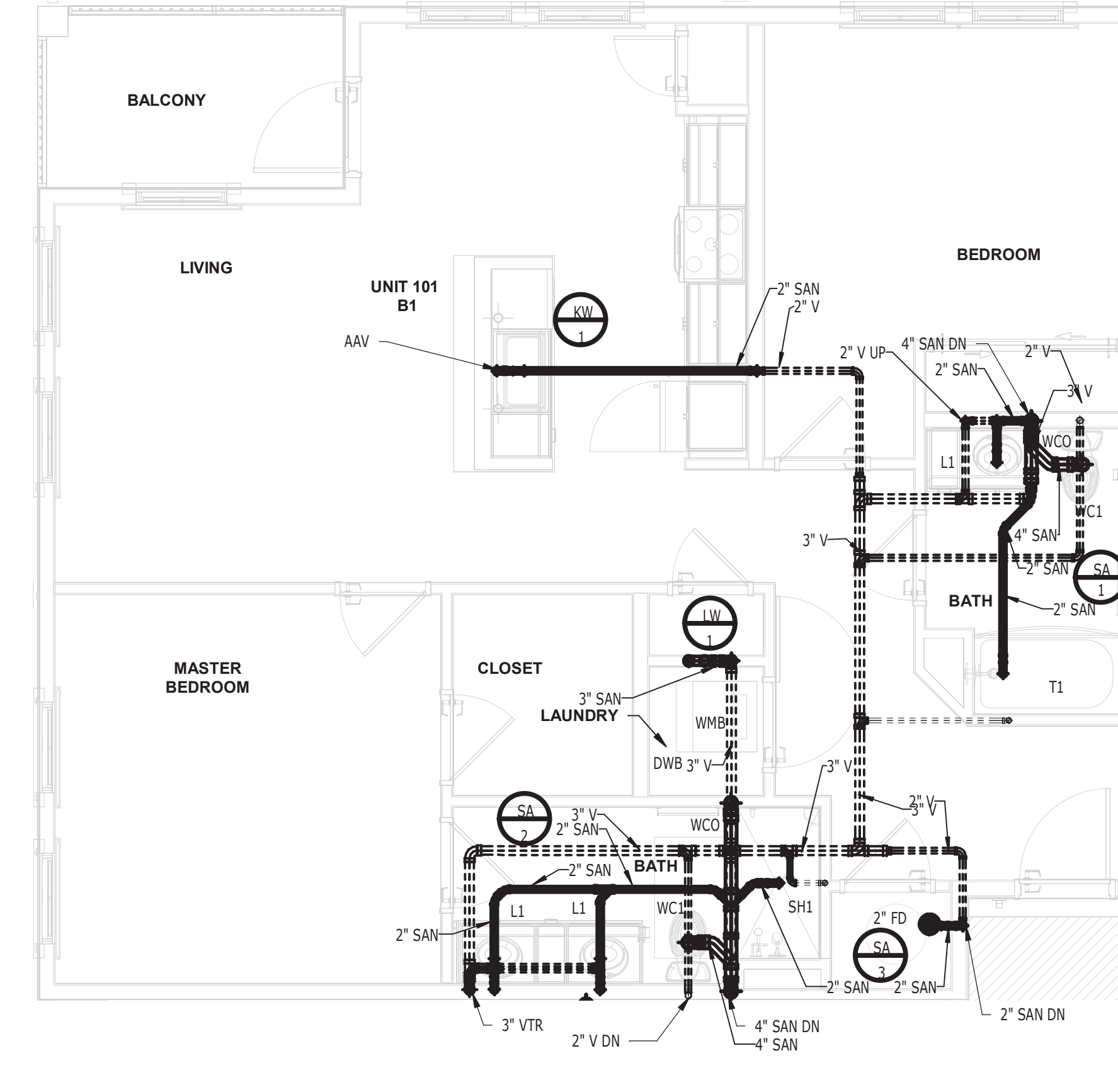
1 UNIT A1 - BOTTOM S.W.&V PLAN
 1/4" = 1'-0"



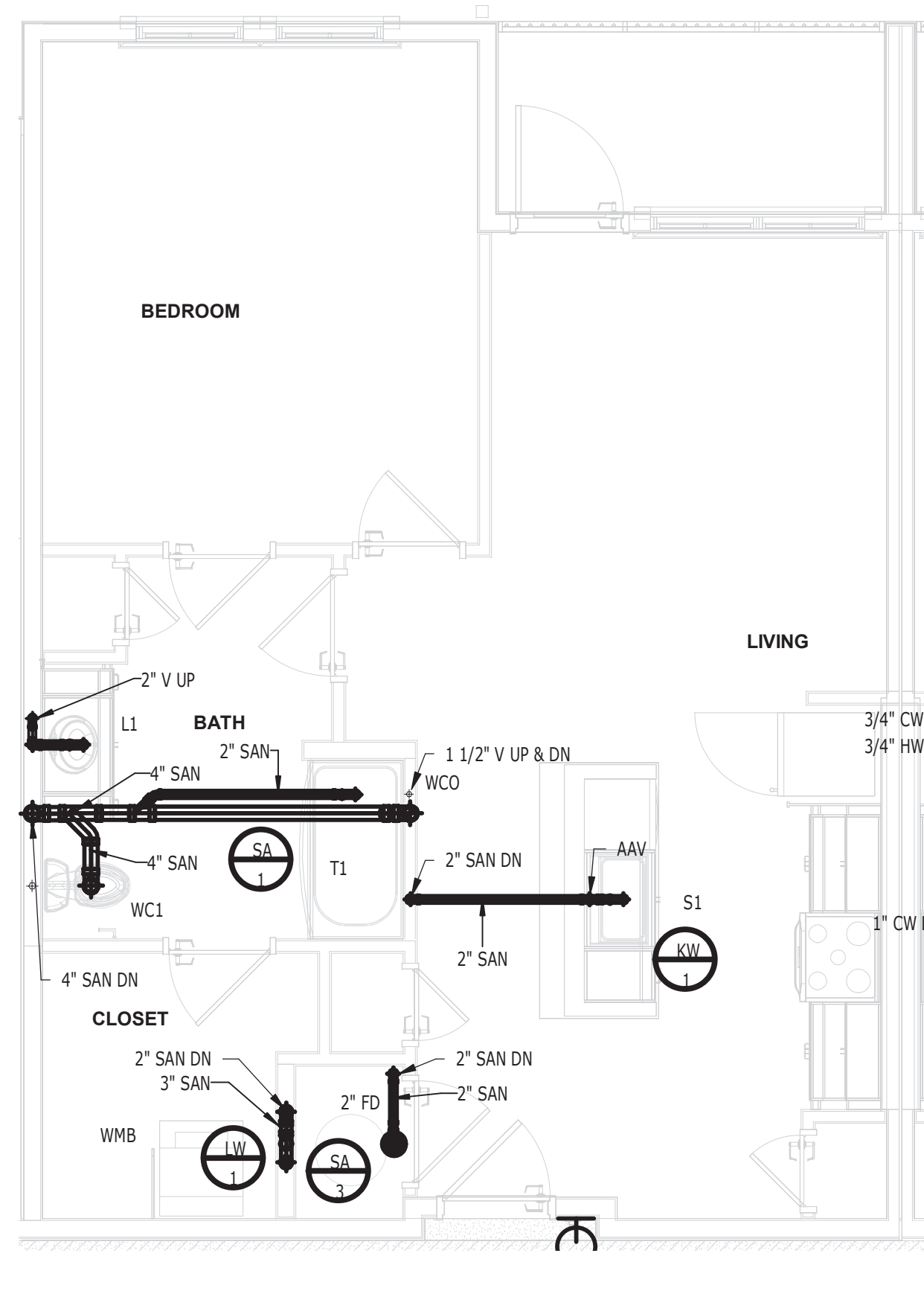
2 UNIT A1 - TOP S.W.&V PLAN
 1/4" = 1'-0"



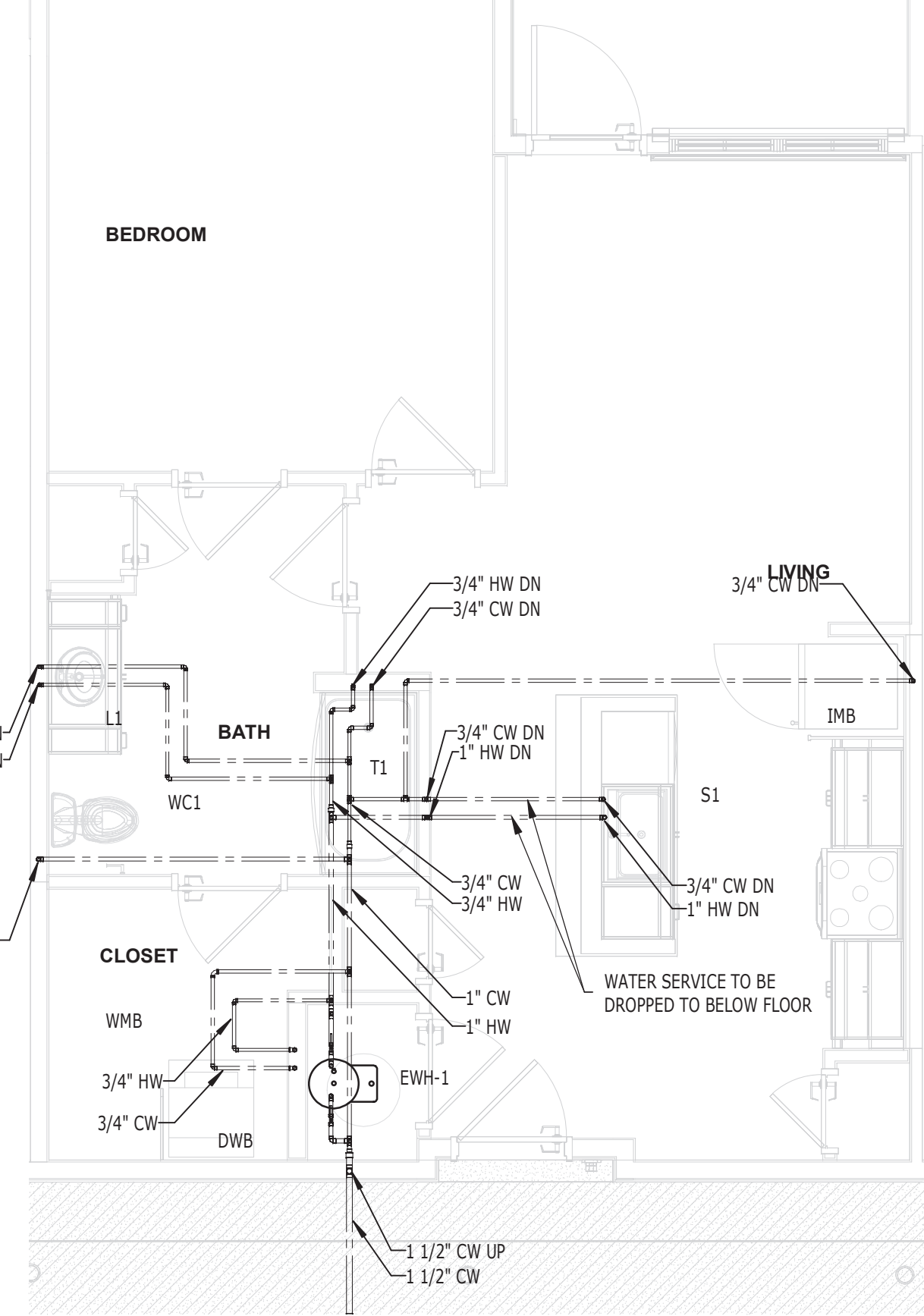
5 UNIT B1 - BOTTOM S.W.&V PLAN
 1/4" = 1'-0"



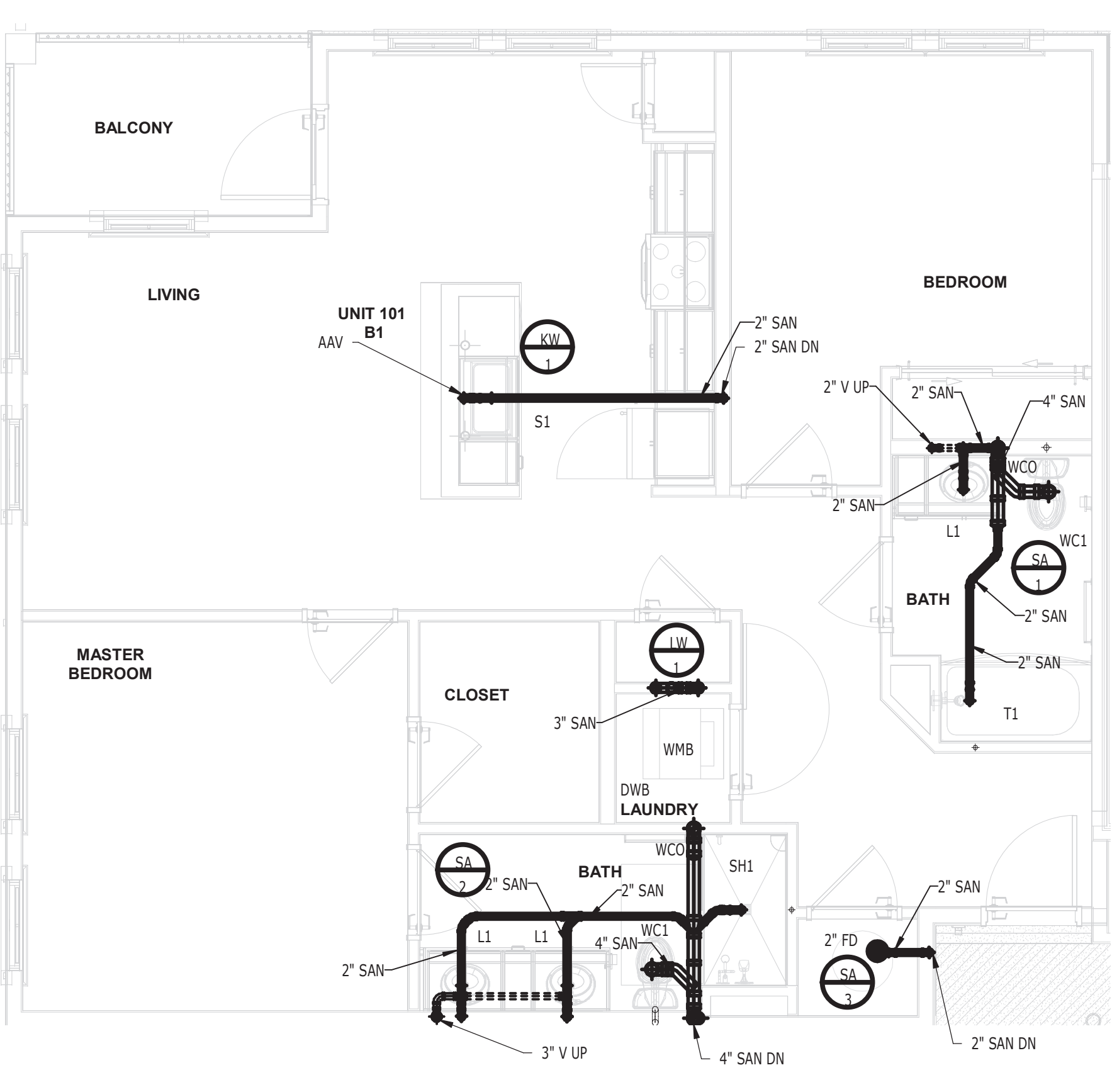
6 UNIT B1 - TOP S.W.&V PLAN
 1/4" = 1'-0"



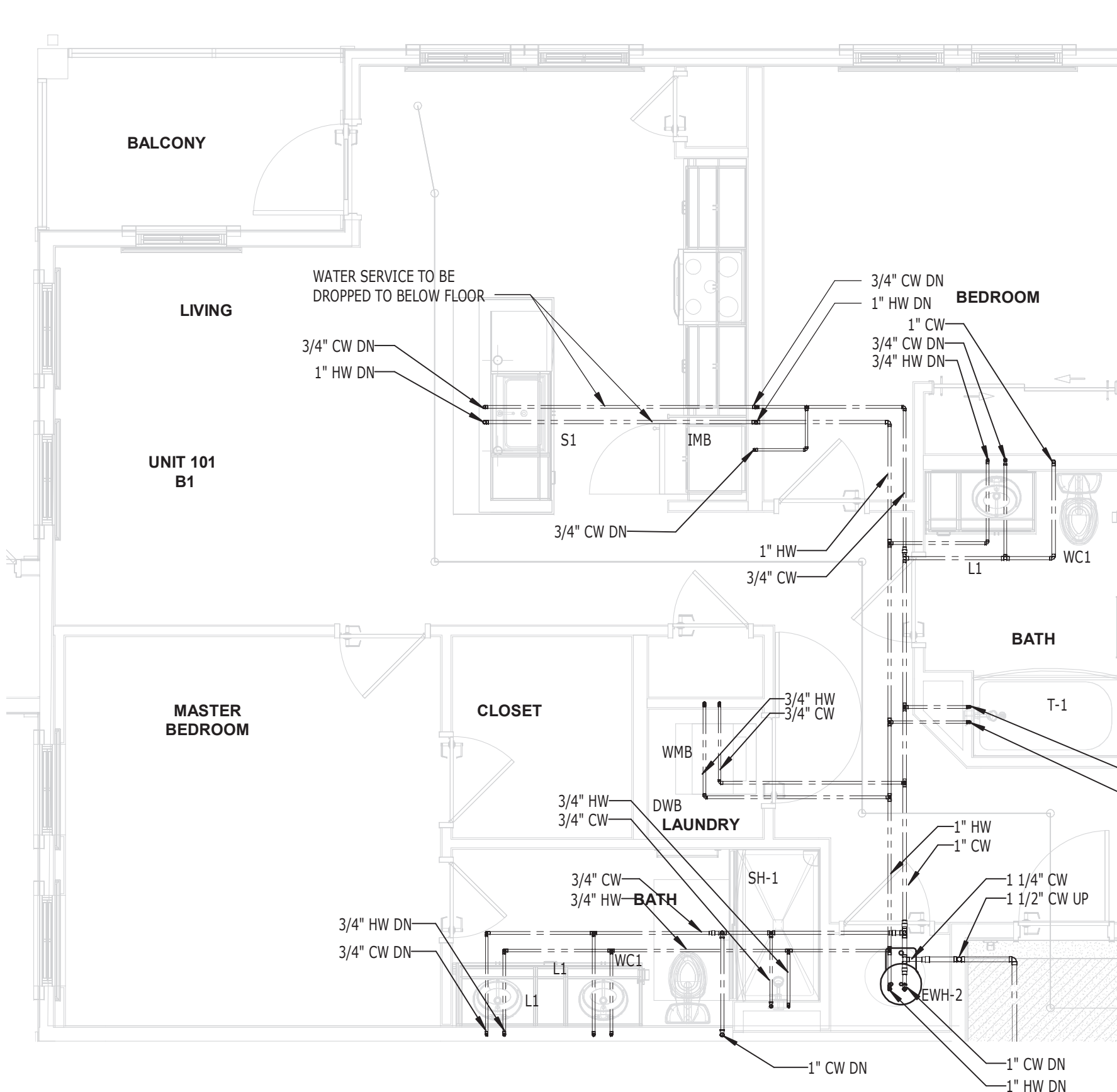
3 UNIT A1 - TYPICAL S.W.&V PLAN
 1/4" = 1'-0"



4 UNIT A1 - DOMESTIC WATER PLAN
 1/4" = 1'-0"



7 UNIT B1 - TYPICAL S.W.&V PLAN
 1/4" = 1'-0"



8 UNIT B1 - DOMESTIC WATER PLAN
 1/4" = 1'-0"

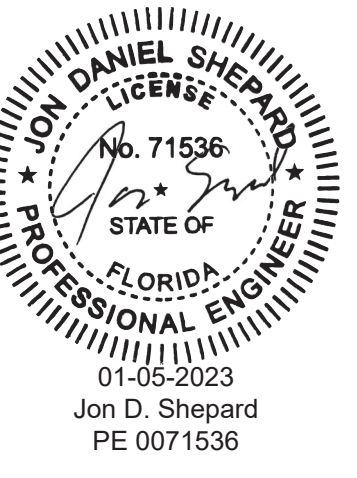
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Cert. of Authorization# CB31201
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MILHAUS

SR-82

7780 LIGHTARD KNOTT LN
 FORT MYERS, FL 33905

PROJECT NO:
 220035.00

SANITARY & DOMESTIC WATER UNIT PLANS

SHEET NUMBER:
 RP3.00

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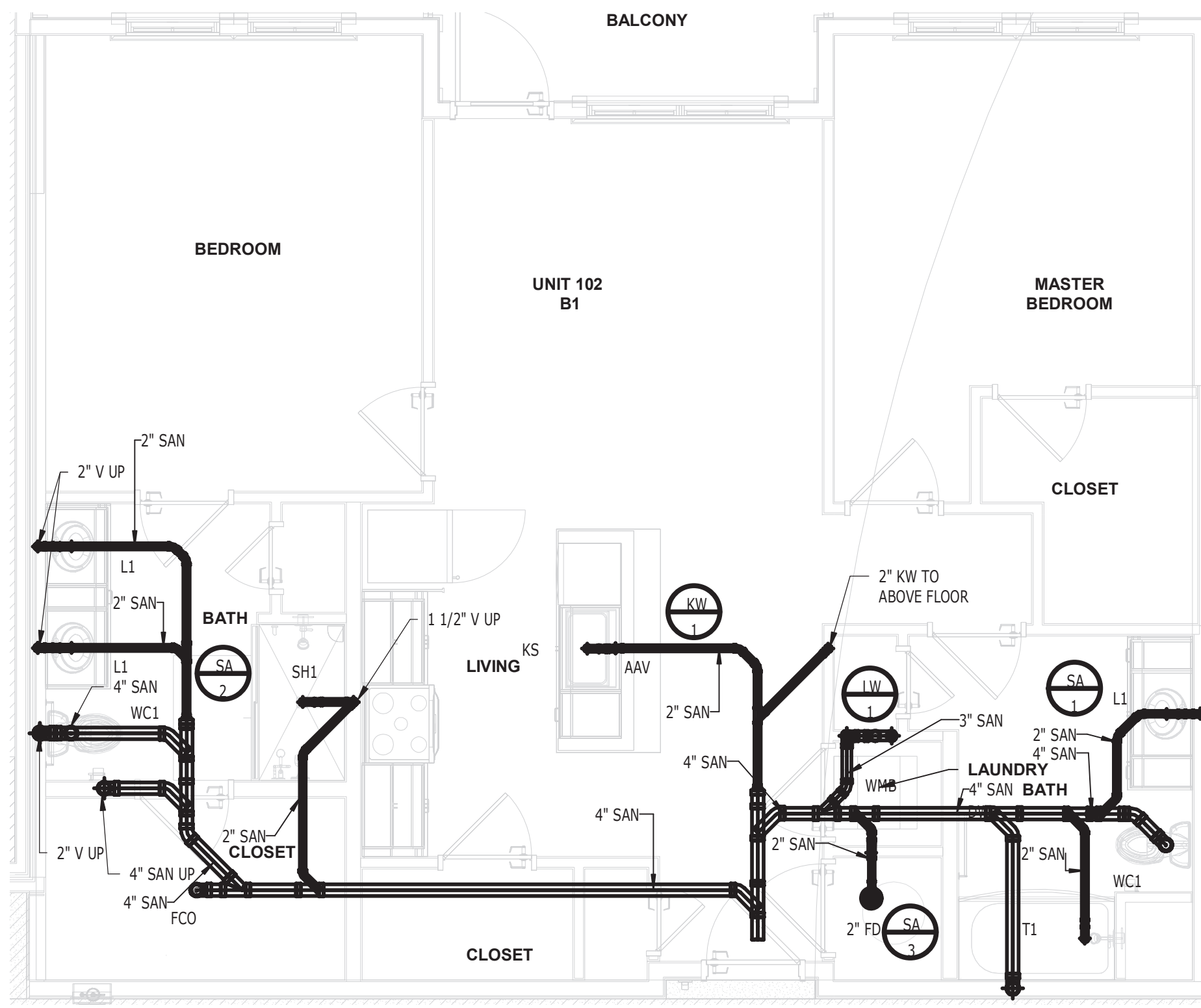
D

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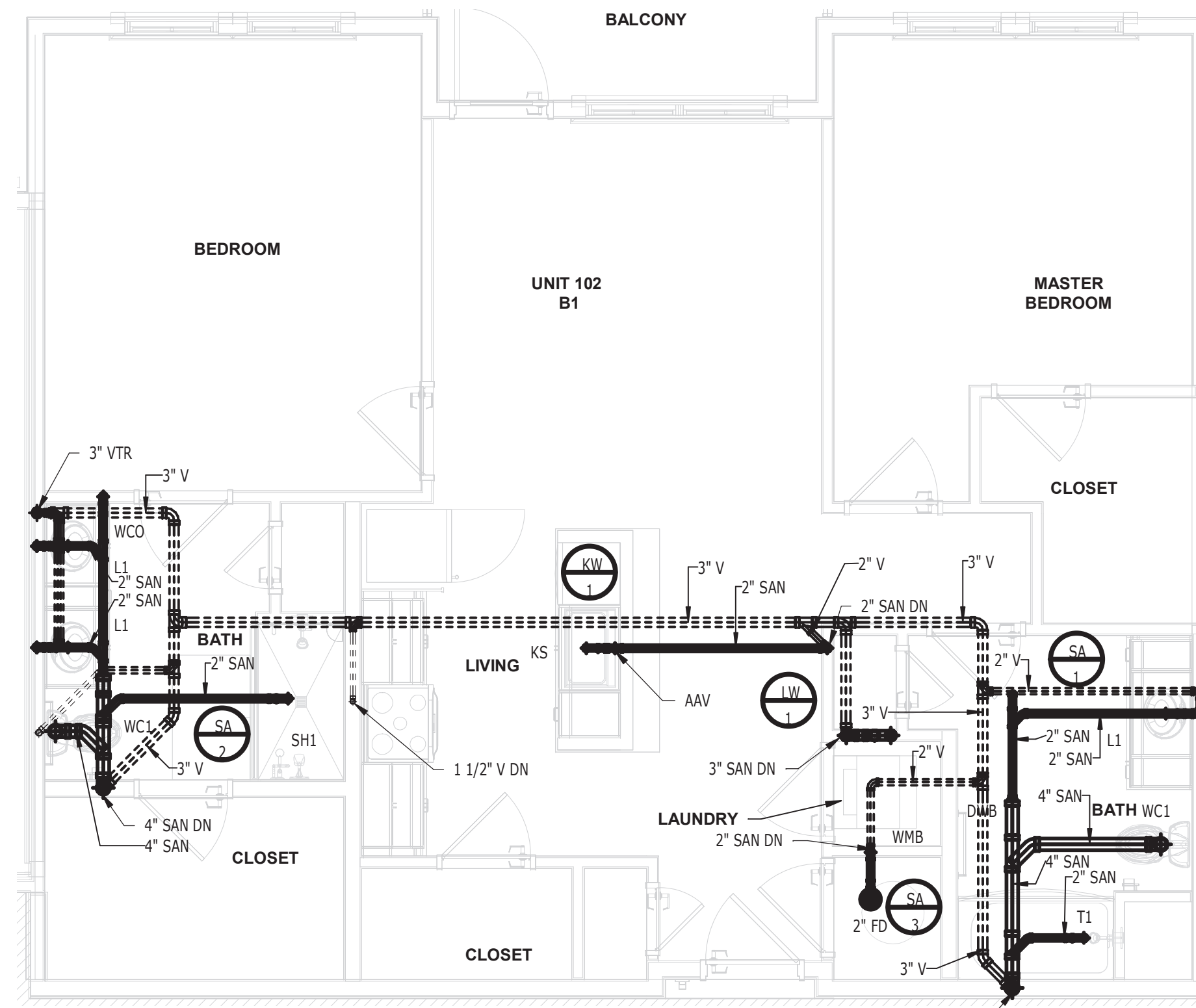
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B

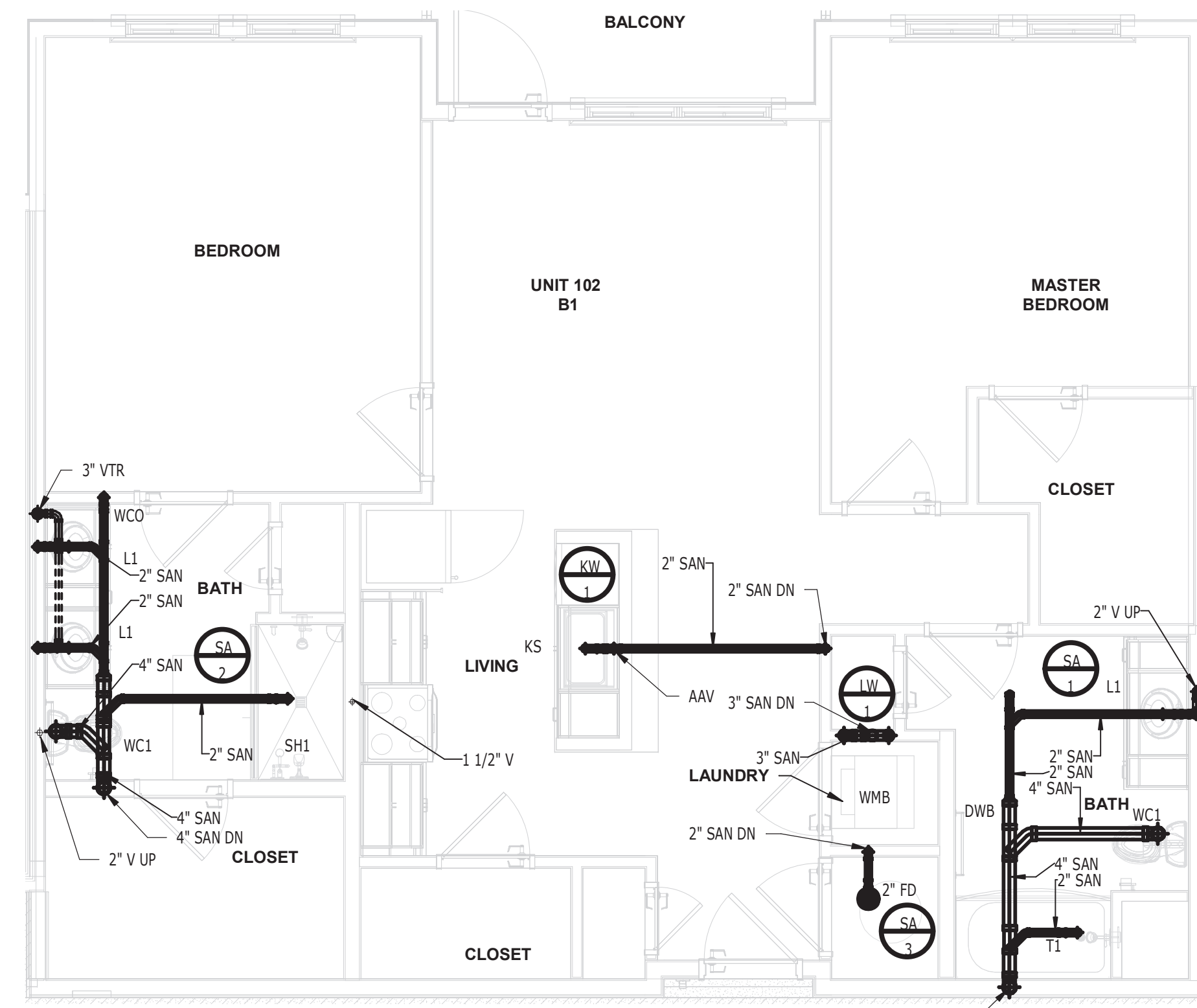
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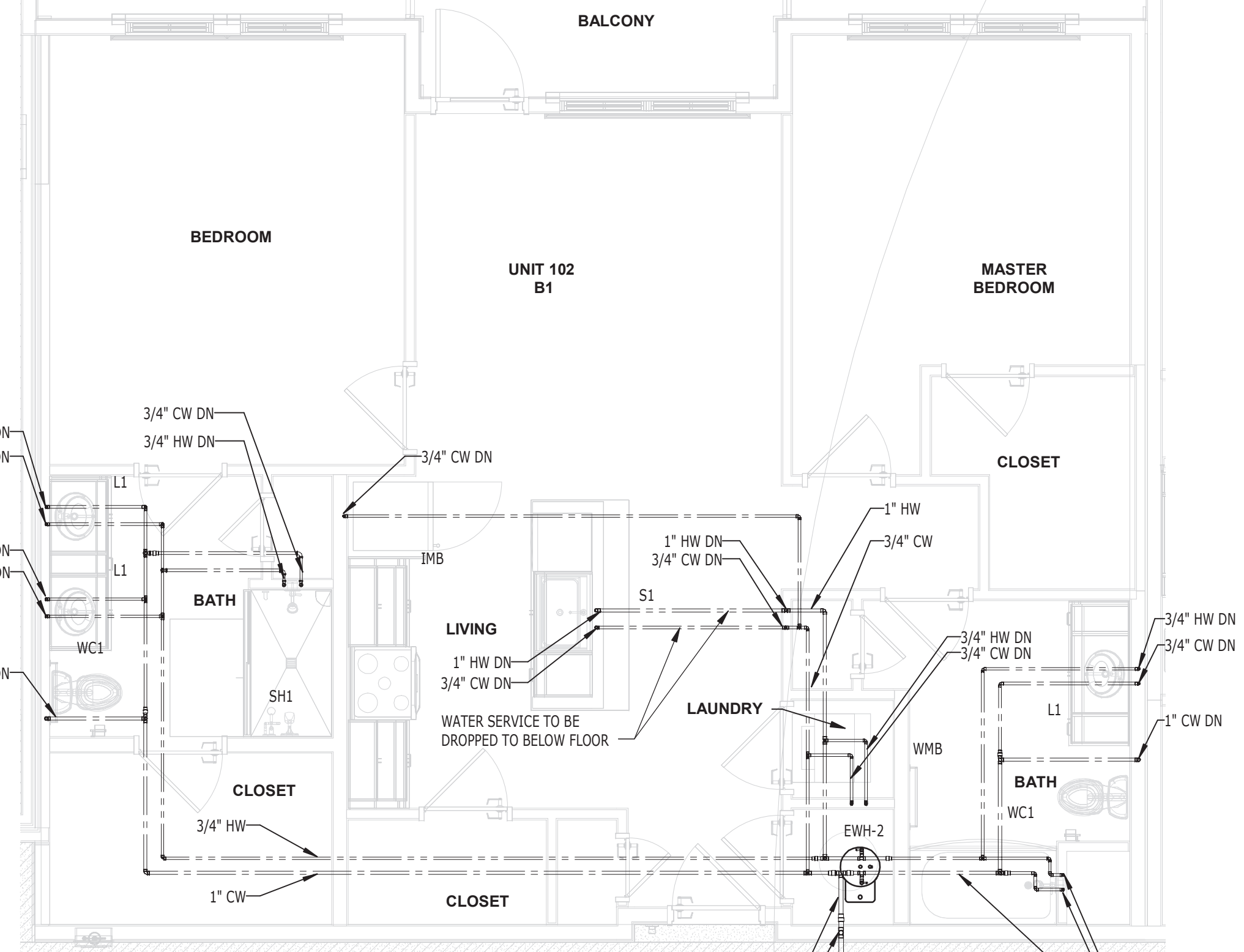
1 UNIT B2 - BOTTOM S,W&V PLAN
1/4" = 1'-0"



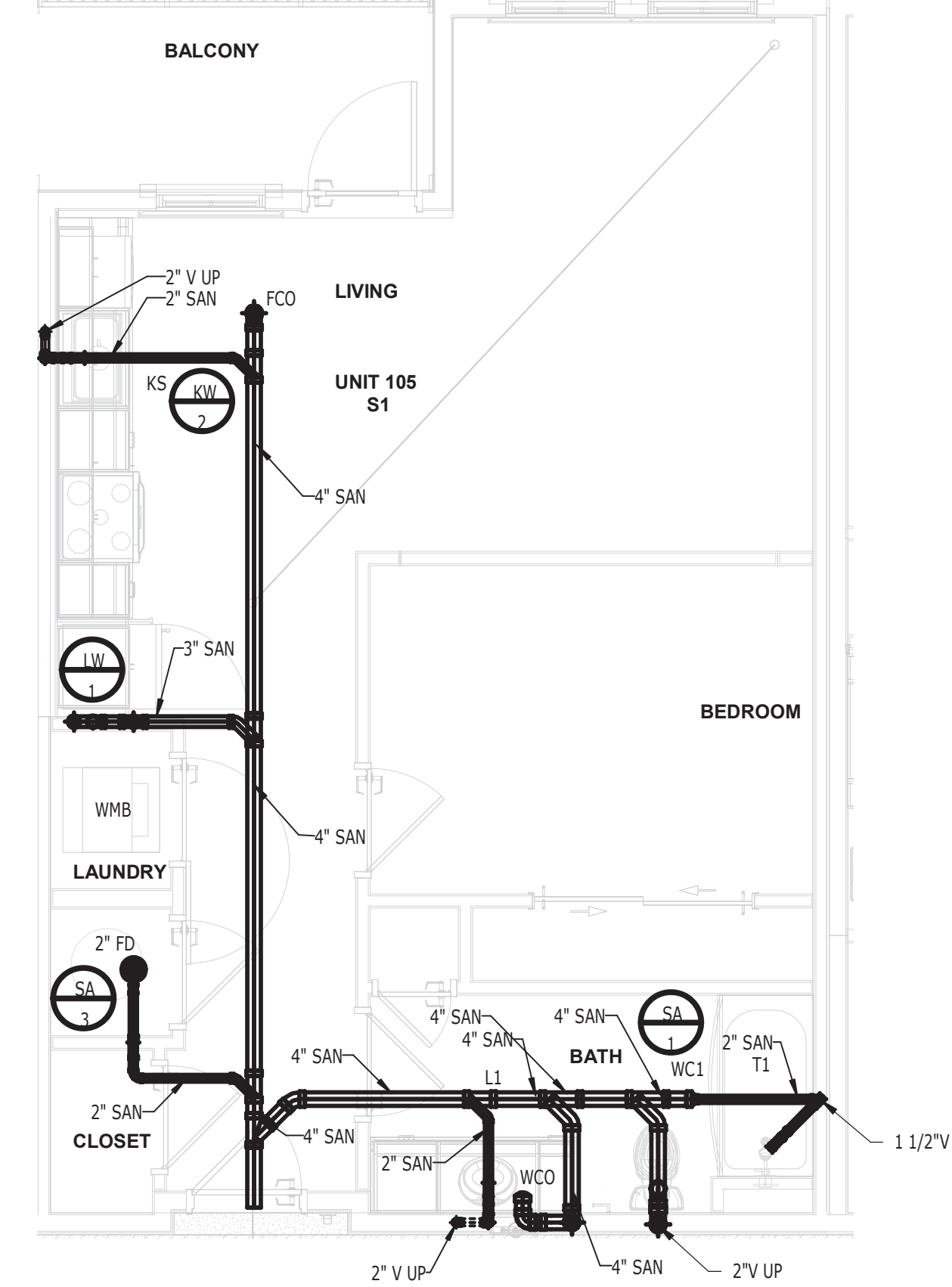
2 UNIT B2 - TOP S,W&V PLAN
1/4" = 1'-0"



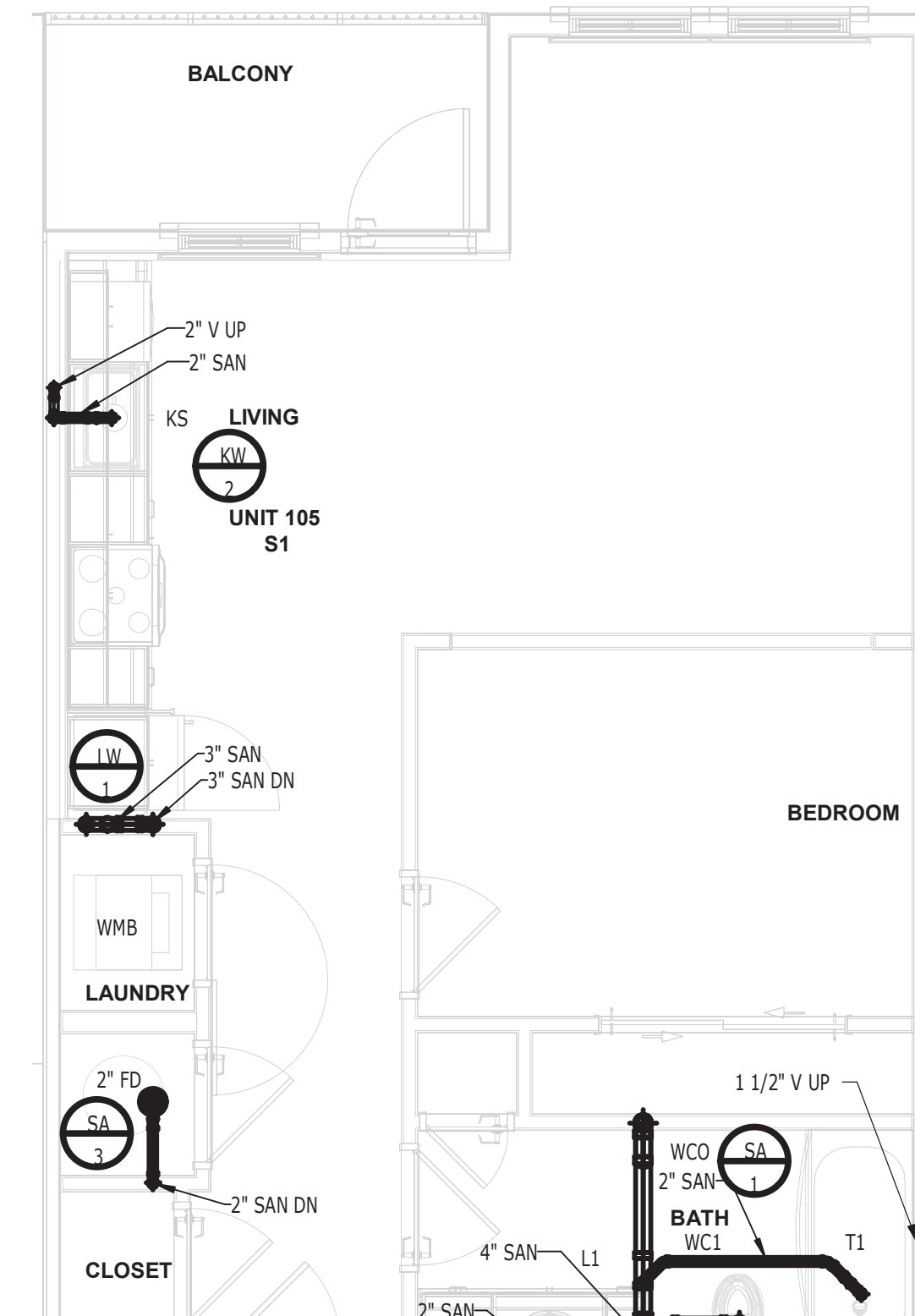
3 UNIT B2 - TYPICAL S,W&V PLAN
1/4" = 1'-0"



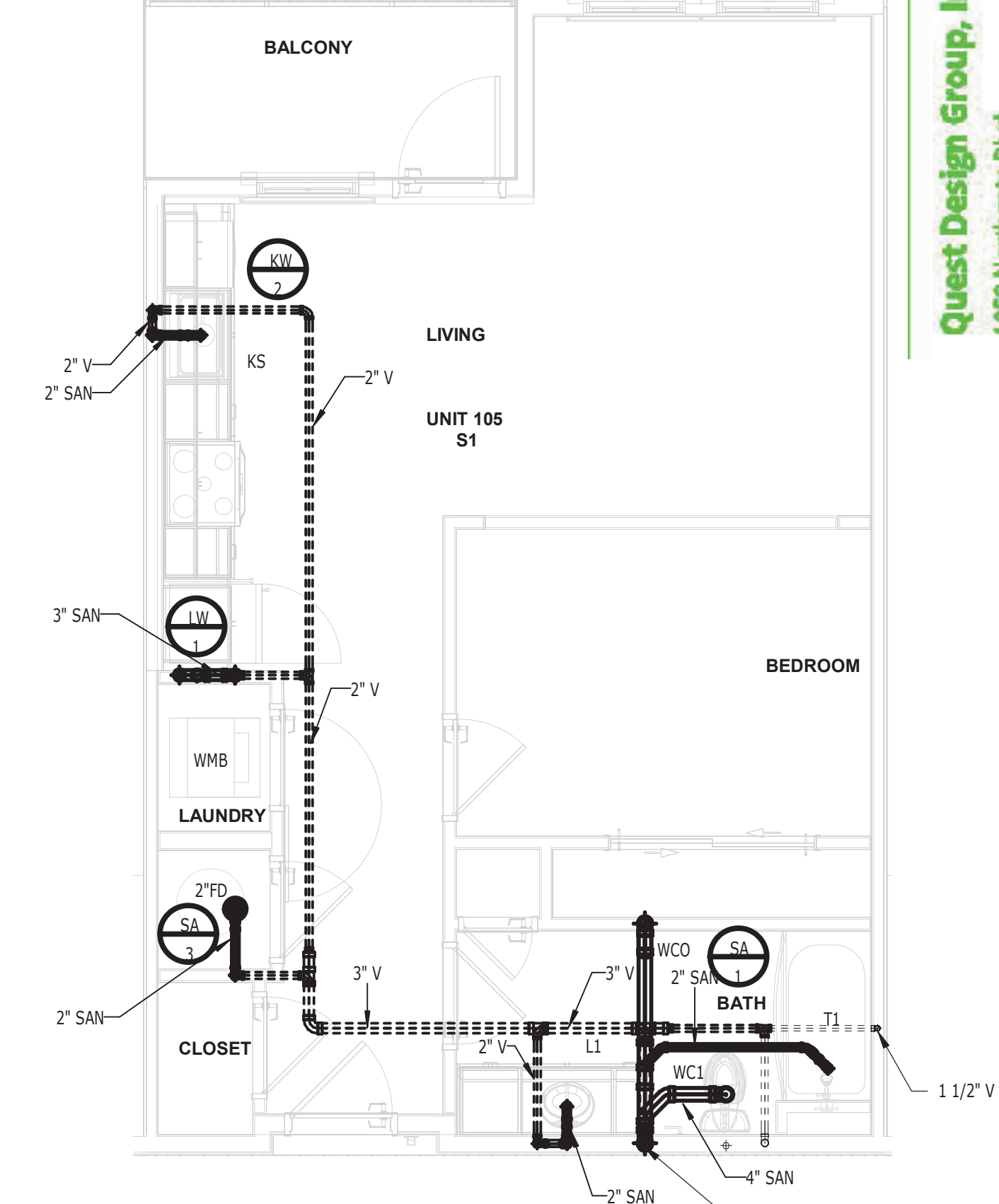
4 UNIT B2 - DOMESTIC WATER PLAN
1/4" = 1'-0"



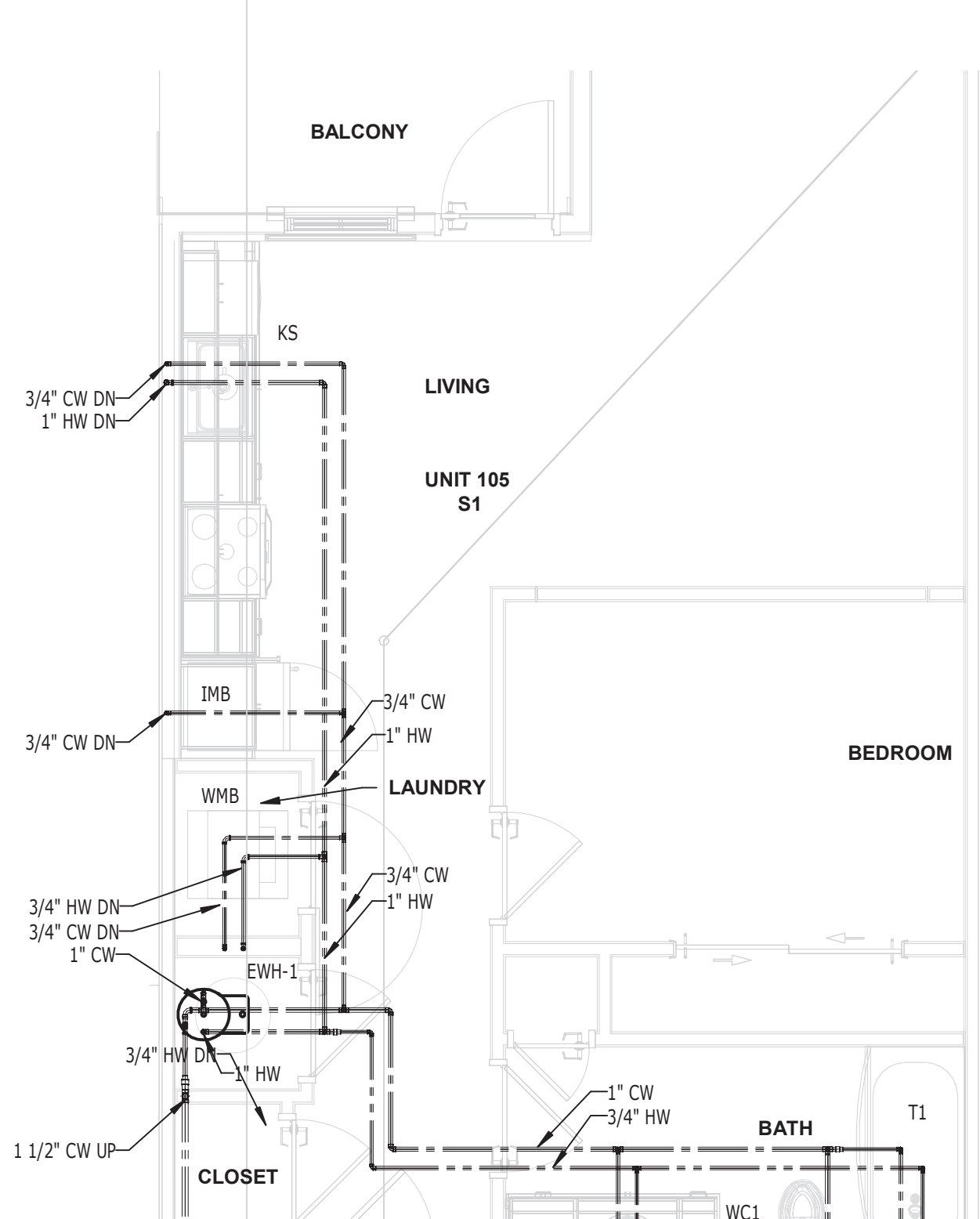
5 UNIT S1 - BOTTOM S,W&V PLAN
1/4" = 1'-0"



6 UNIT S1 - TYPICAL S,W&V PLAN
1/4" = 1'-0"



7 UNIT S1 - TOP S,W&V PLAN
1/4" = 1'-0"



8 UNIT S1 - DOMESTIC WATER PLAN
1/4" = 1'-0"

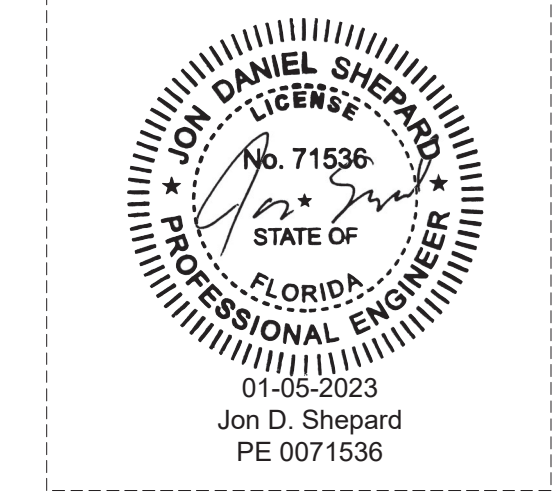
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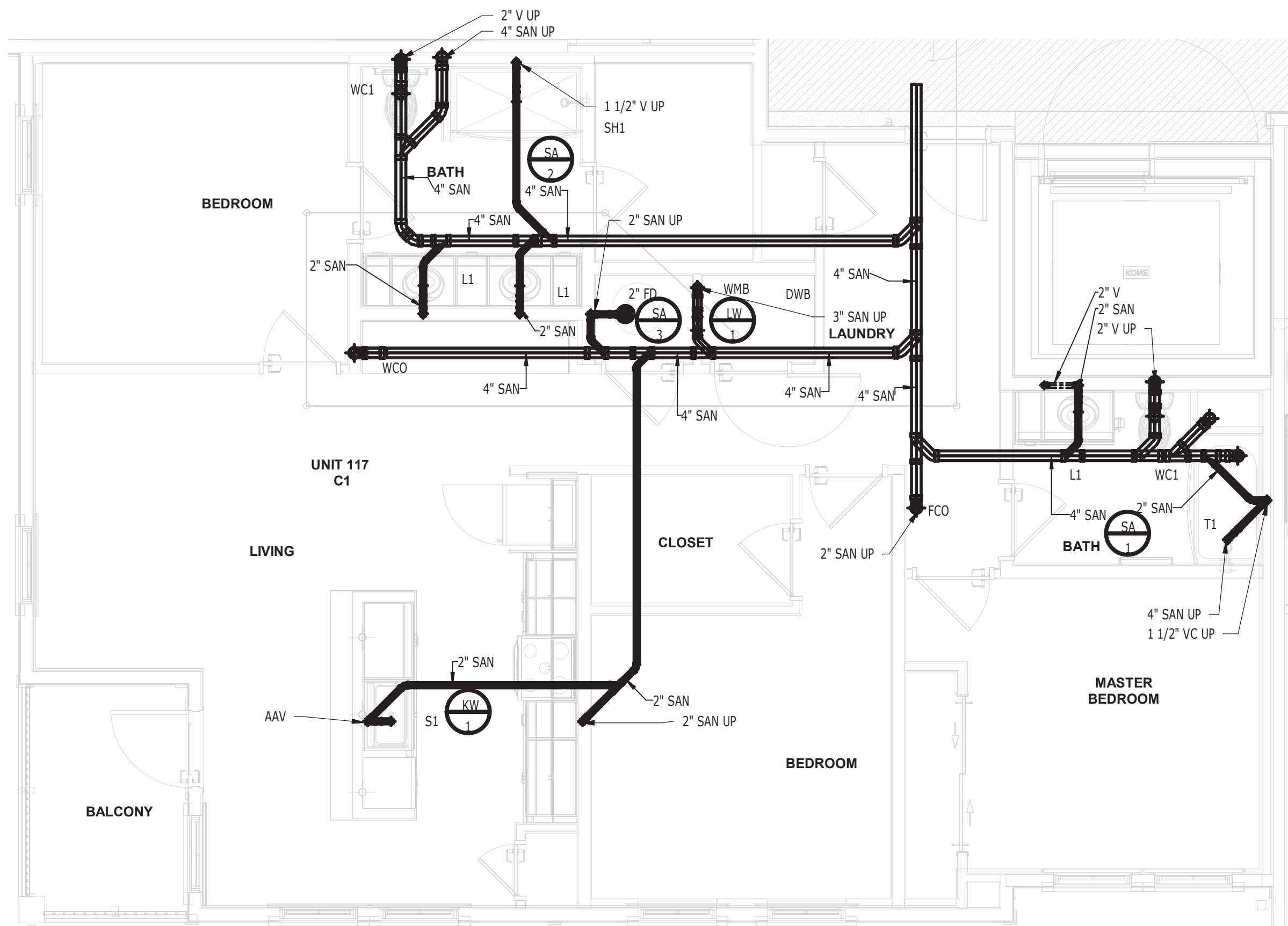
SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905
PROJECT NO:
220035.00

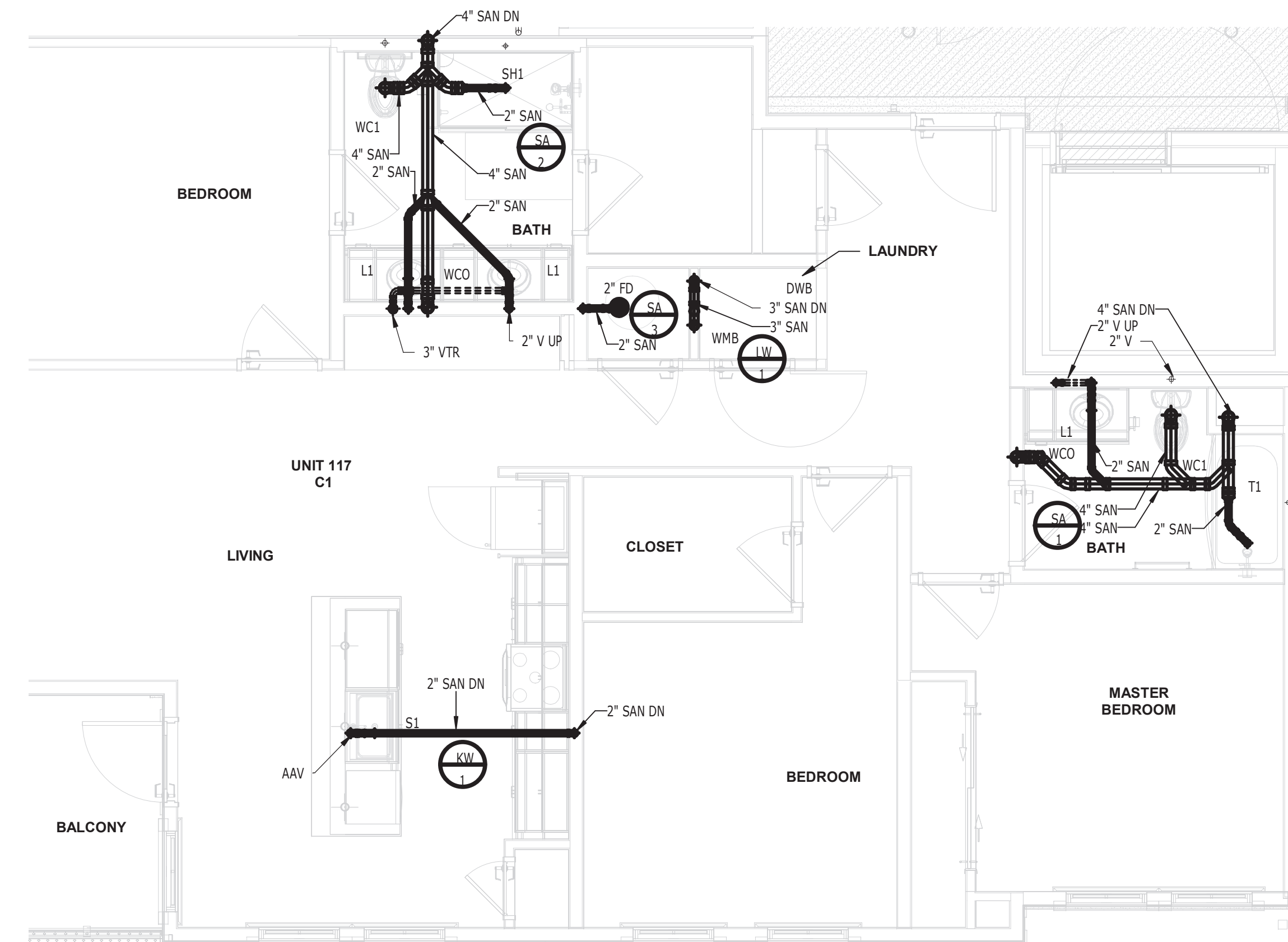
**SANITARY &
DOMESTIC WATER
UNIT PLANS**

SHEET NUMBER:
RP3.01

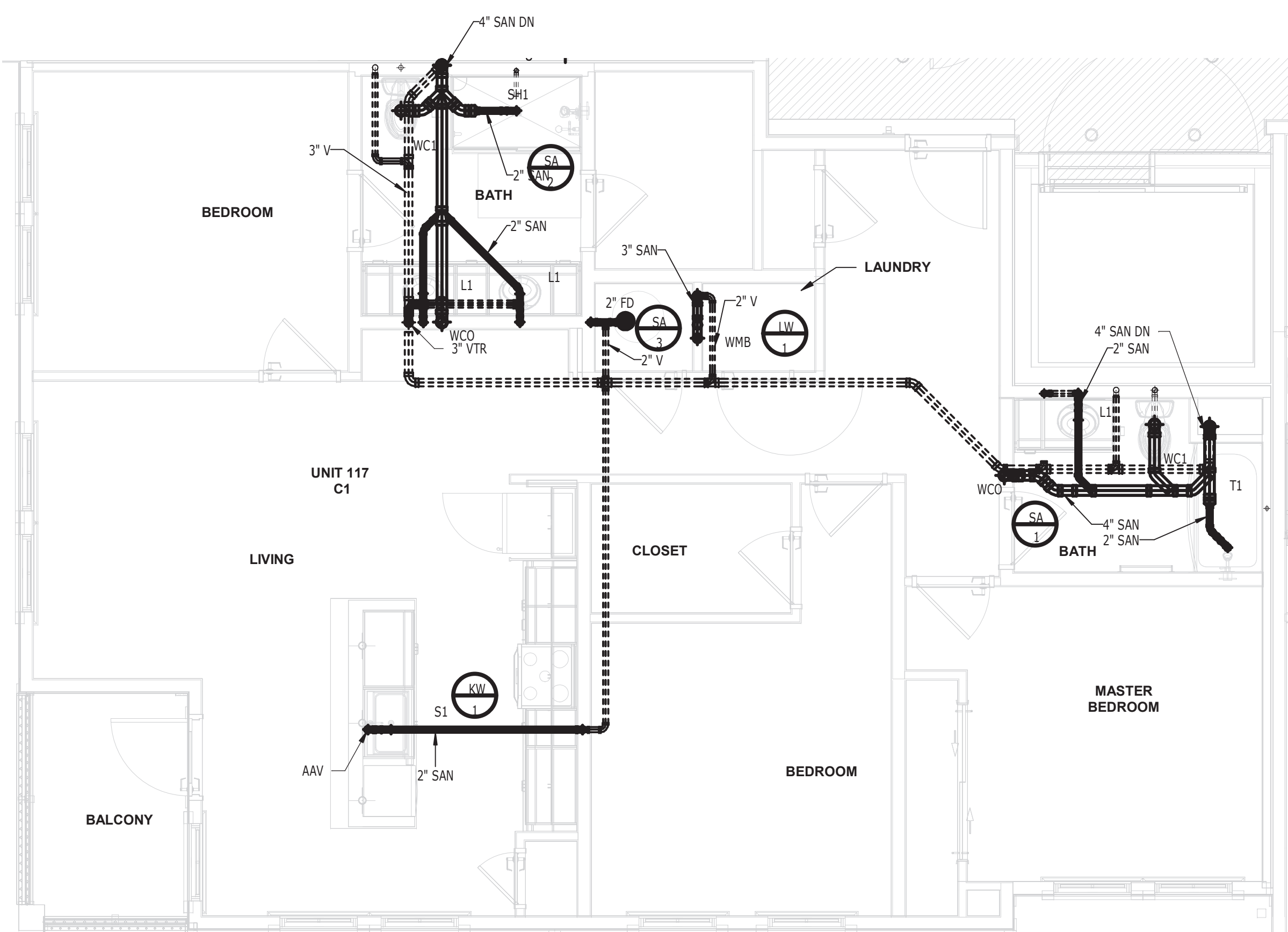
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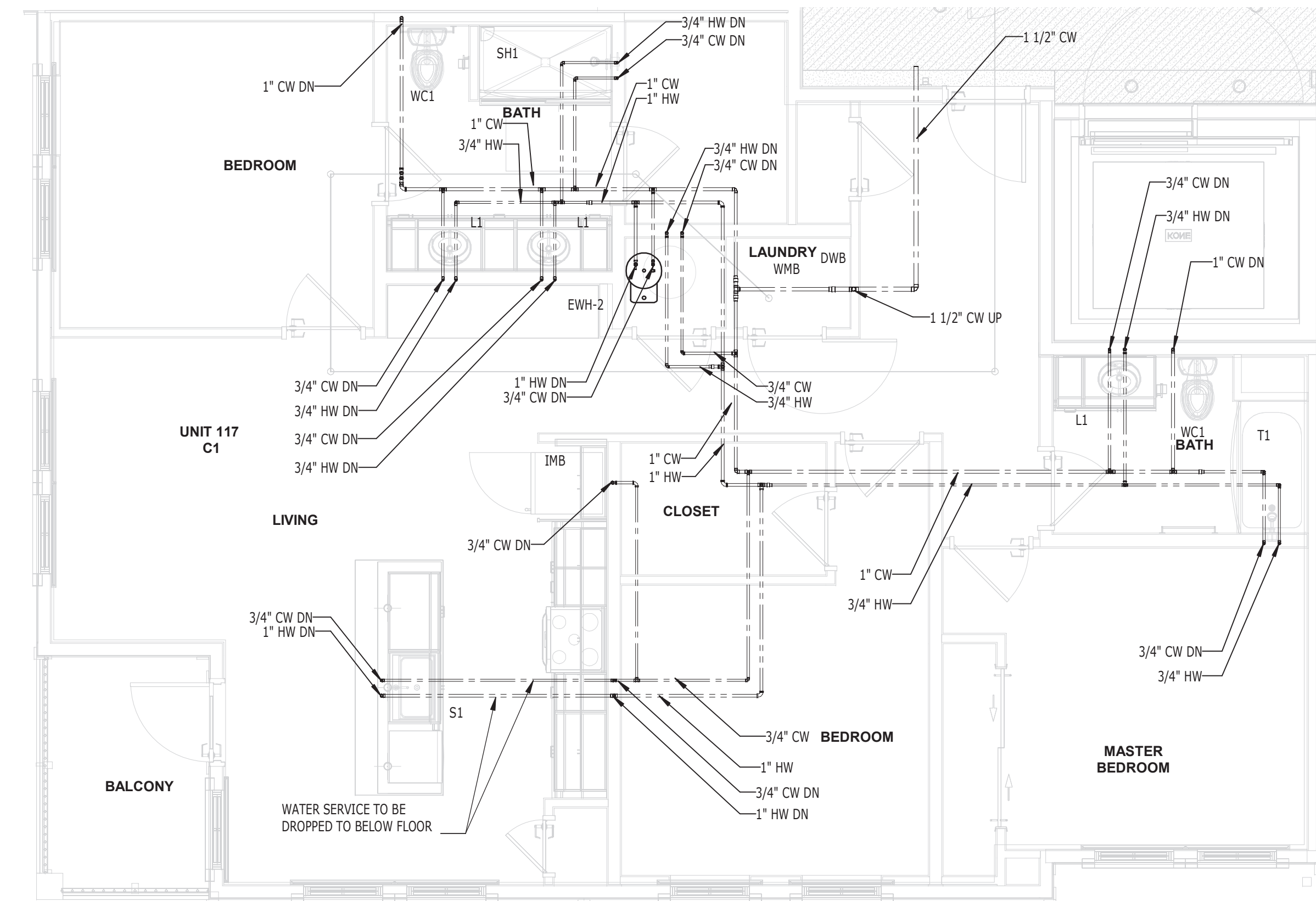
① UNIT C1 - BOTTOM S,W&V PLAN
1/4" = 1'-0"



② UNIT C1 S- TYPICAL S,W&V PLAN
1/4" = 1'-0"



③ UNIT C1 - TOP S,W&V PLAN
1/4" = 1'-0"



④ UNIT C1 - DOMESTIC WATER PLAN
1/4" = 1'-0"

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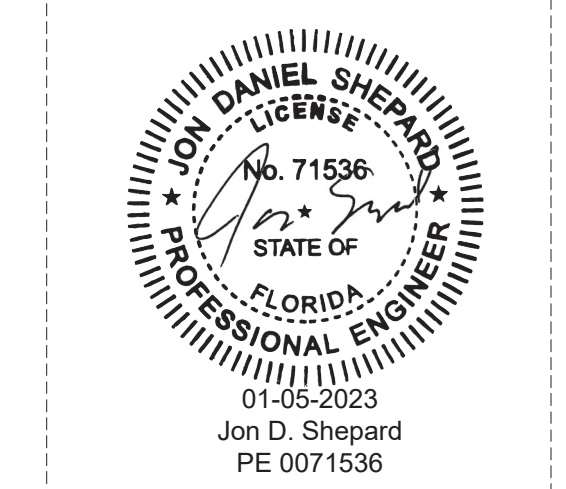
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Cert. of Authorization: C51201
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Mechanical **Electrical**



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SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905
PROJECT NO:
220035.00

SANITARY & DOMESTIC WATER UNIT PLANS

SHEET NUMBER:
RP3.02

THE LINE SHOWN ABOVE IS
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PLUMBING LEGENDS			
FIXTURE	CWSFU	HWSFU	NOTE
WC1	2.2	-	①
T1	1	1	②
L1	0.5	0.5	③
SH1	1	1	④
WMB	1	1	⑤
S1 WITH DW	1	2.4	⑥
IMB	0.5	-	⑦

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SARASOTA, FL 34234
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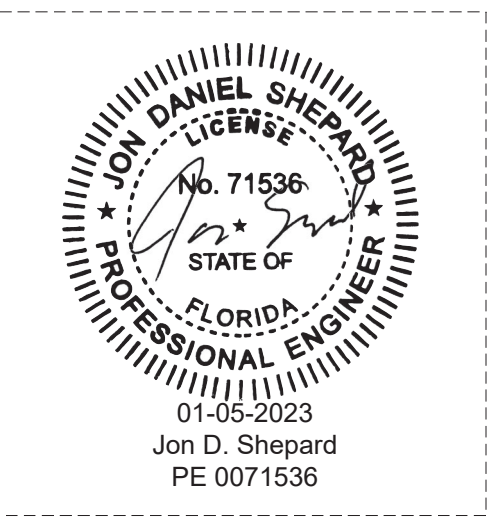
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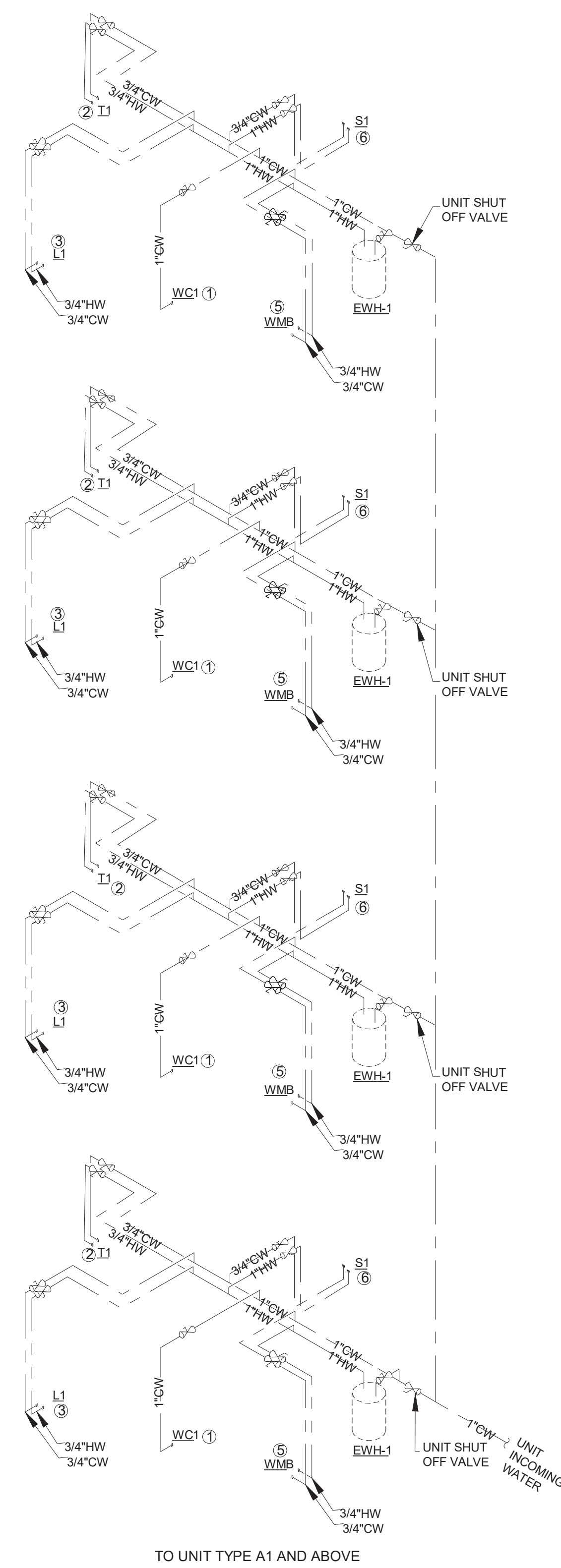


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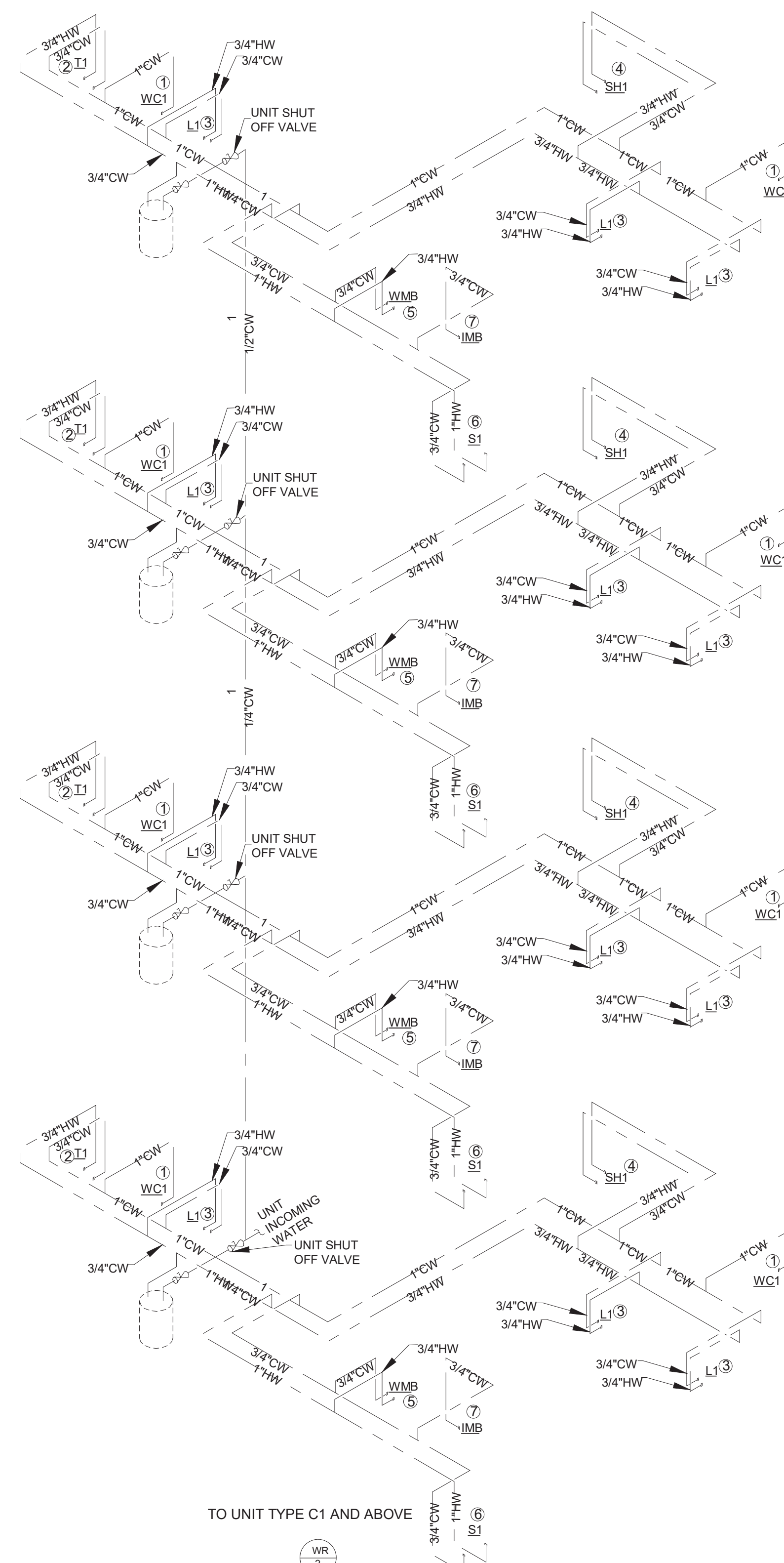
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TO UNIT TYPE A1 AND ABOVE



TO UNIT TYPE C1 AND ABOVE



1 WATER RISERS
N.T.S.



MILHAUS

SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

DOMESTIC WATER
RISER DIAGRAMS

SHEET NUMBER:
RP4.01

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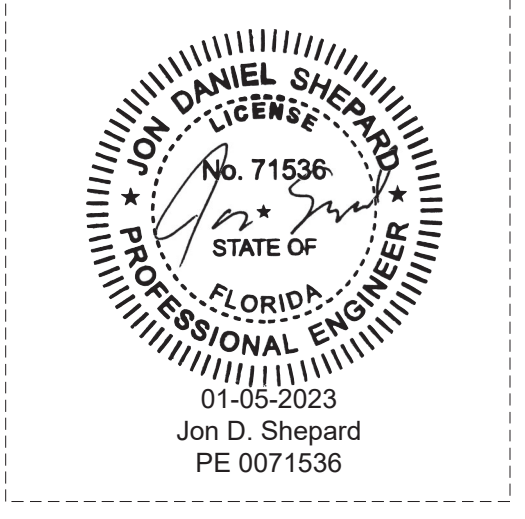
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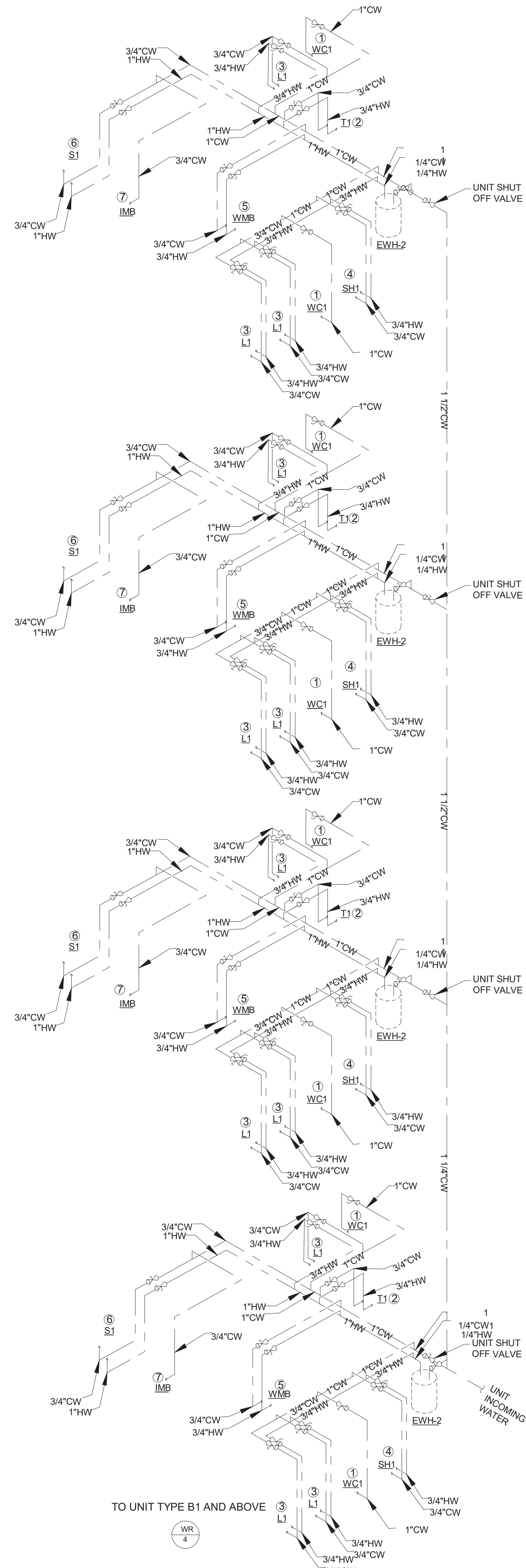
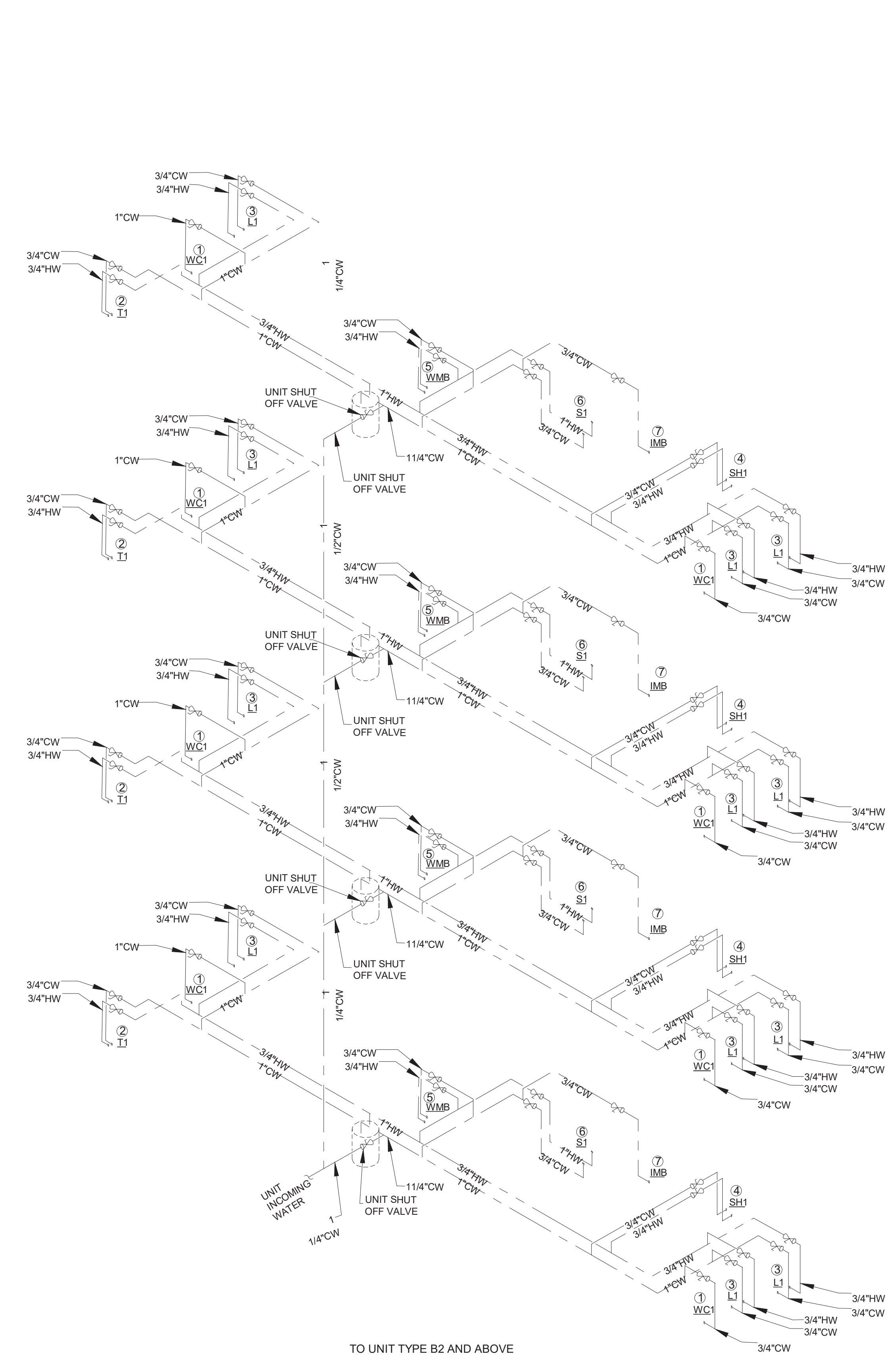
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FIXTURE CWSFU	HWSFU	NOTE
WC1	2.2	-
T1	1	1
L1	0.5	0.5
SH1	1	1
WMB	1	1
S1 WITH D/W	1	2.4
IMB	0.5	-



2 WATER RISERS
 N.T.S.



MILHAUS

SR-82

7780 LIGHTARD KNOTT LN
 FORT MYERS, FL 33905

PROJECT NO:
220035.00

DOMESTIC WATER RISER DIAGRAMS

SHEET NUMBER:
RP4.02

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PLUMBING LEGENDS			
FIXTURE	CWSFU	HWSFU	NOTE
WC1	2.2	-	(1)
T1	1	1	(2)
LI	0.5	0.5	(3)
WMB	1	1	(4)
S1 WITH DW	1	2.4	(5)
IMB	0.5	-	(6)

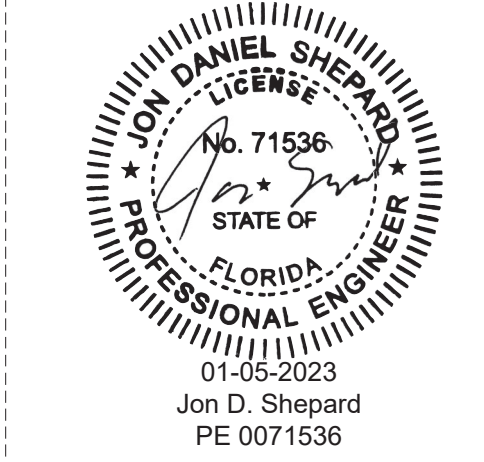
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Cert. of Authorization# C8131201

Mechanical Electrical Plumbing Fire Protection

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ENGINEERING
CONNECTIONS

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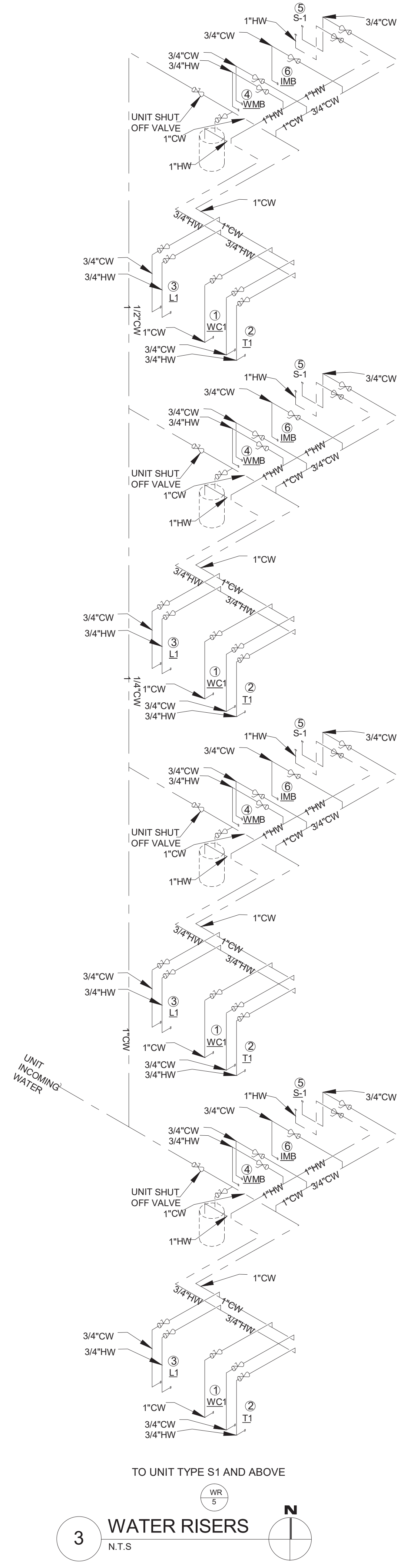
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Δ	DATE	REVISION OR SUBMISSION

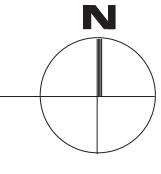
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THIS LINE SHOWN ABOVE IS TO IDENTIFY AND MARK THE SHEET OR SHEETS OF THIS SET.



TO UNIT TYPE S1 AND ABOVE
3 WATER RISERS
N.T.S.



MILHAUS

SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

DOMESTIC WATER RISER DIAGRAMS

SHEET NUMBER:
RP4.03

E

D

C

B

A

PLUMBING FIXTURE SCHEDULE																		
TAG	QUANTITY	FIXTURE TYPE						FIXTURE CONNECTION						FIXTURE UNITS				
		DESCRIPTION	TYPE	VALVE	FAUCET	MATERIAL	REMARKS	WASTE			VENT (INCHES)	DOMESTIC SUPPLY		COLD WATER	HOT WATER	TOTAL SUPPLY	SANITARY	
								TRAP	DIRECT	INDIRECT		COLD	HOT					
<u>WC1</u>	112	AMERICAN STANDARD MODEL #2467.016, "CADET" RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED	TANK, PRESSURE ASSIST	-	-	VITREOUS CHINA	Fixture performance and specifications meet or exceed ASME A112.19.2-2008/CSA B45.1-08 standards, and other state and local codes.	3"	3"	-	2"	1"	-	2.2	0	246.4	336	
<u>L1</u>	147	LAVATORY	American Standard Lucerne 0355012PL020-1/2" Wall Mounted Porcelain Bathroom Sink	-	Manual Sink Faucets 802-317XKAB CP	VITREOUS CHINA	UNIT TO BE PROVIDED WITH LAVATORY CARRIER ASSEMBLY, OFF-SET GRID STRAINER ASSEMBLY WITH CHROME TAILPIECE AND CHROME P-TRAP ASSEMBLY, LOOSE KEY STOPS, ESCUTHEONS, ETC. UNIT TO BE PROVIDED WITH "TRUEBRO" VINYL PIPE INSULATION KIT.	1-1/2"	1-1/2"	-	2"	3/4"	3/4"	0.5	0.5	102.9	147	
<u>JS1</u>	2	MOP SINK	MSB2424 - 24" X 24" Molded Stone Mop Service Basin	-	Service-Sink Faucet Model: 830-AA	STAINLESS STEEL	Tiling flanges are optional, made of stainless steel, and extend 1" above the shoulder on 1, 2, or 3 sides, as required.	3"	3"	-	2"	3/4"	3/4"	3	3	4.5	6	
<u>SH1</u>	36	SHOWER	-	-	-	-	2603SG 60 x 32 AcrylX Alcove Left-Hand Drain One-Piece Tub Shower in White	2"	2"	-	2"	3/4"	3/4"	1	1	72	72	
<u>T1</u>	68	BATHTUB	-	-	-	-	-	-	-	-	-	-	-	1	1	136	136	
<u>UR</u>	2	-	-	-	-	VITREOUS CHINA	OPERATES IN THE RANGE OF 0.125 GPF TO 1.0 GPF	2"	2"	-	2"	1"	-	3	-	6	6	
<u>IMB</u>	68	ICE MAKER REFRIG.	WATTS #LF7RU2-2	-	-	NO-LEAD BRASS	NSF-372 compliant, IAPMO listed box and valve, ASSE 1010 arrester Valve meets ASME A112.18.1	-	-	-	-	3/4"	-	1	-	68	-	
<u>ED</u>	69	FLOOR DRAIN	-	-	-	STAINLESS STEEL	FLOOR DRAIN TO BE PROVIDED IN ALL COMMON BATHROOM AREAS, INCLUDING SINGLE USER COMMON BATHROOMS.	3"	3"	-	-	-	-	-	-	-	276	
<u>WMB</u>	68	RESIDENTIAL WASHER/DRYER	-	-	-	-	PROVIDE UNIT WITH GUY GRAY #82634 (MODEL #BED200GF) WMOB & GUY GRAY MODEL #350 DRYER BOX. UNIT TO BE PROVIDED WITH DRAIN PAN ASSEMBLY WITH DRAIN PIPED TO FLOOR DRAIN.	2"	2"	-	2"	3/4"	3/4"	18	18	95.2	204	
<u>S1</u>	71	KITCHEN SINK	-	-	-	STAINLESS STEEL	ASME A112.19.3/CSA B45.4	1-1/2"	1-1/2"	-	1-1/2"	3/4"	3/4"	1	2.4	203.77	142	
<u>DF1</u>	1	DRINKING FOUNTAIN	-	-	-	-	-	2"	2"	-	2"	3/4"	3/4"	1	1	2	2	
<u>BP-1</u>	1	BOOSTER PUMP	DUPLEX PUMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:
 INSTALL BACKING AND SUPPORTS AS REQUIRED FOR ALL FIXTURES AND ACCESSORIES.
 ALL FIXTURES SHALL MEET ADA AND LOCAL CODES
 SUPPLY PIPING AND FITTING FOR ALL FIXTURES SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW
 ALL FIXTURES SHALL BE PROVIDED WITH ACCESSIBLE SHUT OFF VALVES AT COLD AND HOT WATER PIPING CONNECTIONS
 PROVIDE INSULATION FOR ALL PIPING IN EXTERIOR WALLS.
 ALL PLUMBING FIXTURES SHALL BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO PURCHASE.
 HOT WATER TO ALL LAVATORIES AND HAND SINKS SHALL NOT EXCEED 110 DEGREES.
 COORDINATE ADA HEIGHT REQUIREMENTS WITH ARCHITECT DRAWINGS.
 ALL HAND SINKS SHALL BE PROVIDED WITH APPROVED AUTOMATIC SAFETY WATER MIXING DEVICE AND PRESSURE BALANCE

516 SUPPLY FIXTURE UNITS FOR SPACE WHICH IS EQUAL TO 170 GPM AND REQUIRES NO LESS THAN A 3" PIPE.

600 DRAINAGE FIXTURE UNITS FOR THE SPACE WHICH REQUIRES NO LESS THAN 6" PIPE.

ELECTRIC WATER HEATER SCHEDULE															
EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	UNIT TYPE	CAPACITY (GALLONS)	WEIGHT (LBS.)	DIMENSIONS (INCHES)				ELECTRICAL			NOTES	
							DIAMETER	WIDTH	DEPTH	HEIGHT	MCA	MOCP	PHASE		VOLTS
EWH-1	SEE PLAN	AO SMITH	ENLB-40	TANK TYPE	38	118	23"	23"	23"	32"	4.4	15.0	1.0	240.0	2,3,4
EWH-2	SEE PLAN	AO SMITH	ENLB-50	TANK TYPE	48	172	26 1/2"	26 1/2"	26 1/2"	34"	4.4	15.0	1.0	240.0	2,3,4

NOTES:
 1. SEE ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. PROVIDE ONE WATER HEATER PER APARTMENT UNIT.
 2. PROVIDE ONE WATER HEATER PER APARTMENT UNIT.
 3. ACCEPTABLE EQUAL MANUFACTURERS ARE A.O. SMITH, BRADFORD WHITE, LOCKINVAR, PVL, RHEEM OR STATE.
 4. IF WATER HEATER IS SUPPLIED WITH AN INSULATION BLANKET TO MEET THE REQUIRED ENERGY FACTOR, THE BLANKET MUST BE PLENUM RATED. NON-PLENUM RATED BLANKETS SUPPLIED BY THE MANUFACTURER MUST BE REPLACED WITH AN INSULATION BLANKET FROM AN INSULATION MANUFACTURER THAT IS PLENUM RATED. PLENUM RATED BLANKETS ARE NOT REQUIRED IF THE WATER HEATER IS NOT IN A PLENUM OR IS NOT LOCATED IN A CLOSET SHARED WITH HVAC EQUIPMENT.

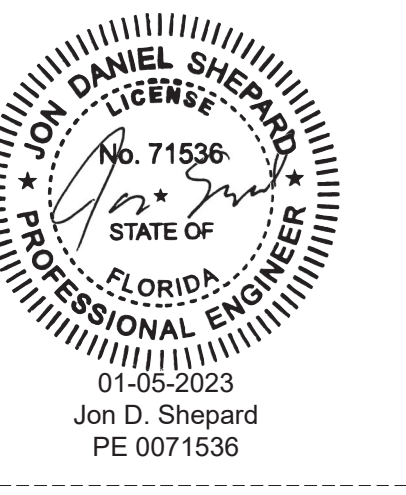
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MILHAUS

SR-82

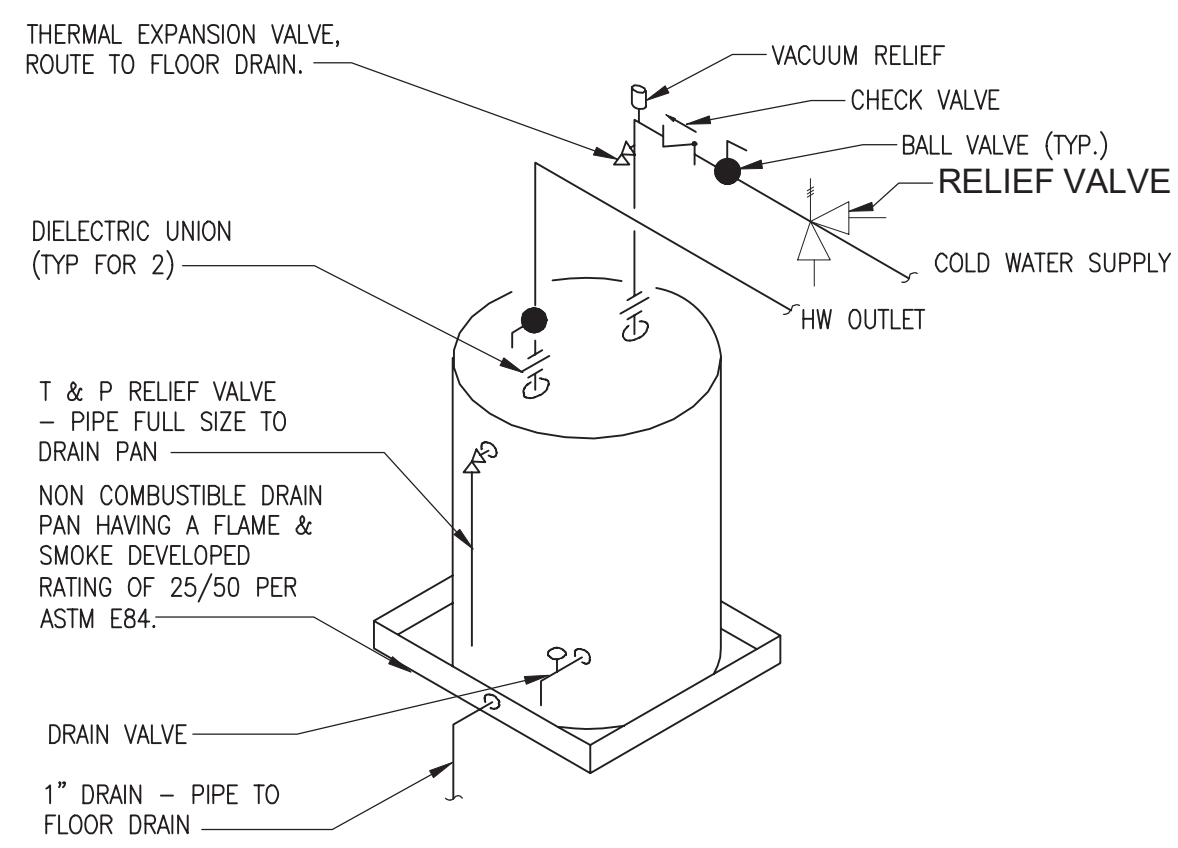
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 FORT MYERS, FL 33905

PROJECT NO:
220035.00

PLUMBING SCHEDULES

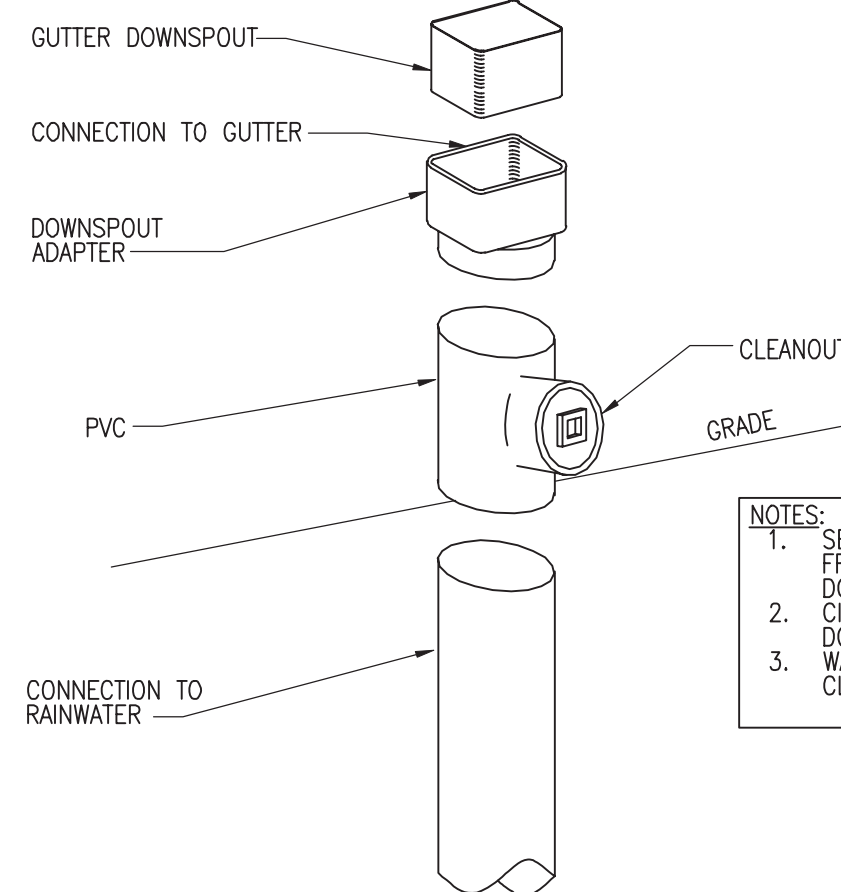
SHEET NUMBER:
RP.00

THE LINE SHOWN ABOVE IS SUBJECT TO MINIMAL PIPE SIZES



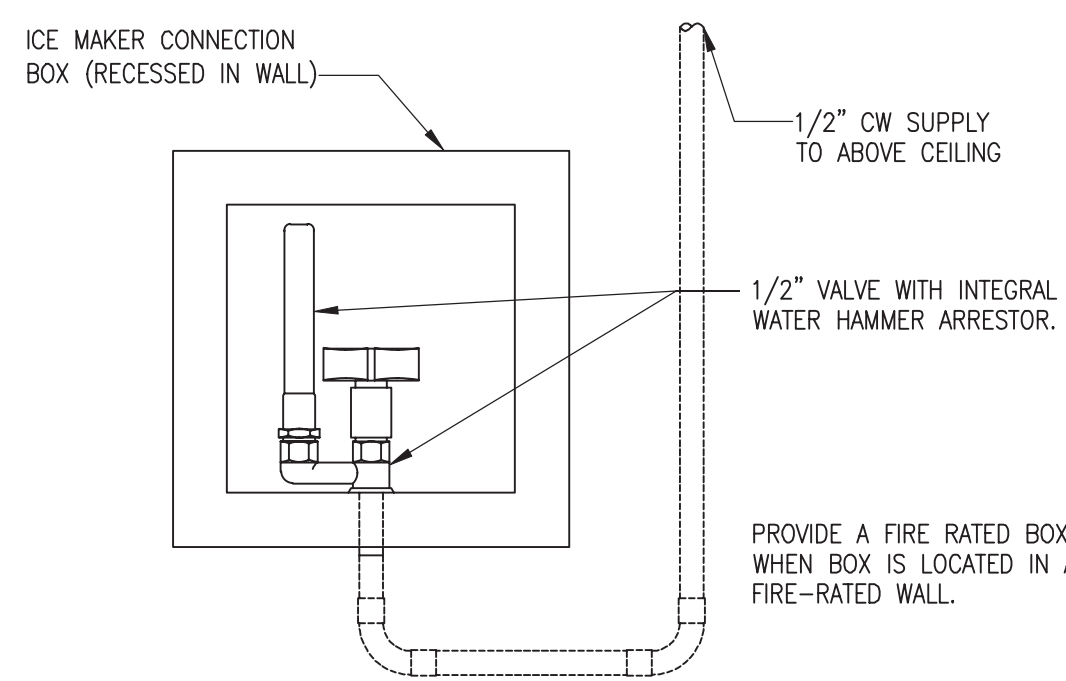
- NOTES:
1. COORDINATE PIPING WITH MECHANICAL UNIT ABOVE. PIPING AND WATER HEATER CANNOT BE GREATER THAN 42" AFF.
 2. DRAIN PAN AND ALL PRODUCTS IN THE APARTMENT MECHANICAL CLOSETS SHALL BE NON-COMBUSTIBLE AND MEET THE 25/50 FLAME/SMOKE DEVELOPED RATING PER ASTM E-84.
 3. PVC PIPE IS NOT ALLOWED IN THE MECHANICAL CLOSETS.
 4. WATER HEATER SHALL BE INSTALLED TO BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPLACEMENT.
 5. SEE HVAC DRAWINGS FOR PLACEMENT OF WH IN RELATION TO FCU.
 6. HEAT TRAPS OR HEAT TRAP NIPPLES ARE REQUIRED ON ALL WATER HEATERS.
 7. THE FIRST 8 FEET OF OUTLET PIPING SHALL BE INSULATED PER ASHRAE 90.1-2010 SECTION 7.4.3.

1 WATER HEATER DETAIL NO SCALE

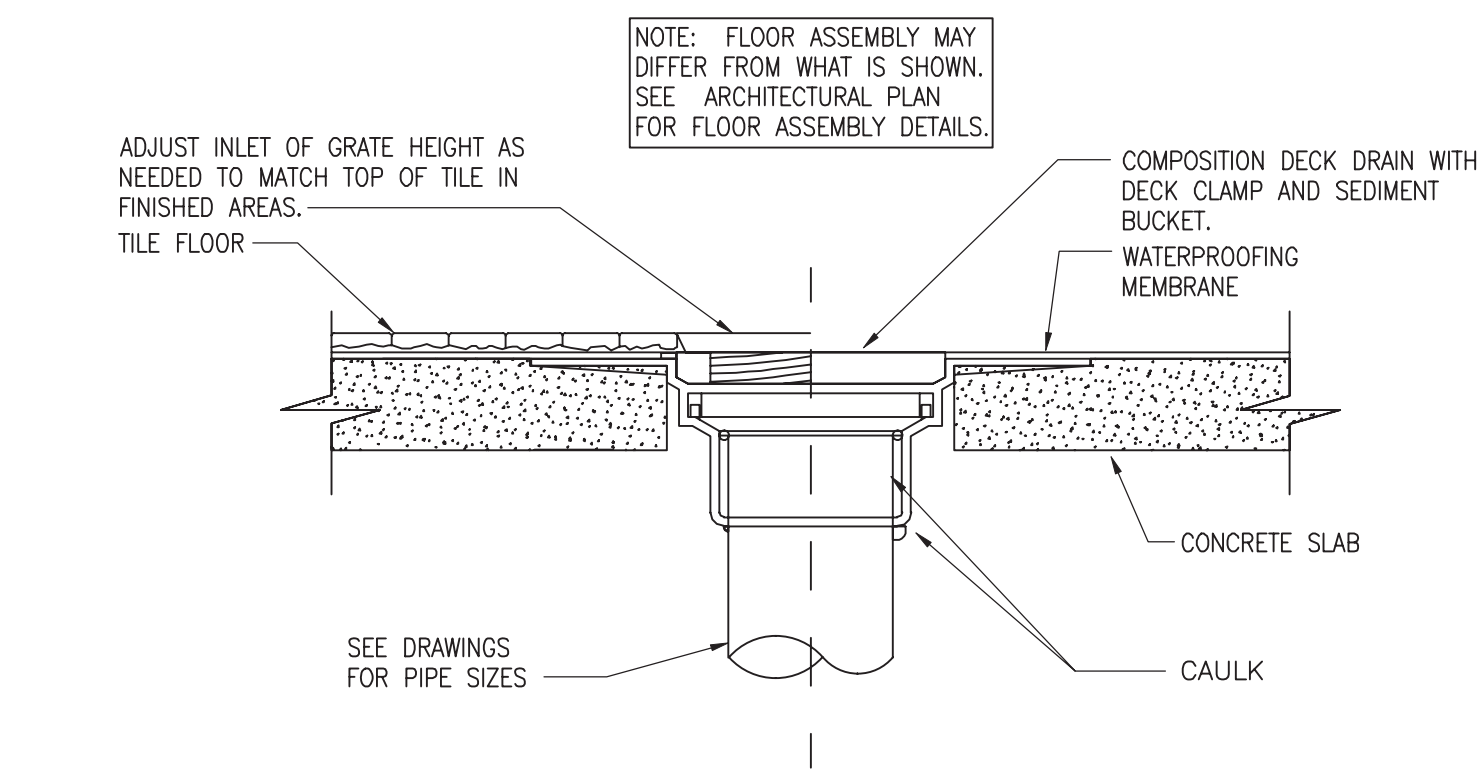


- NOTES:
1. SEE ARCHITECTURAL FOR ROUTING FROM GUTTER DOWNSPOUTS TO THE DOWNSPOUT ADAPTERS.
 2. CIVIL SHALL CONNECT FROM DOWNSPOUTS TO CIVIL LATERALS.
 3. WALL CLEANOUTS SHALL CONNECT AS CLOSE TO GRADE AS POSSIBLE.

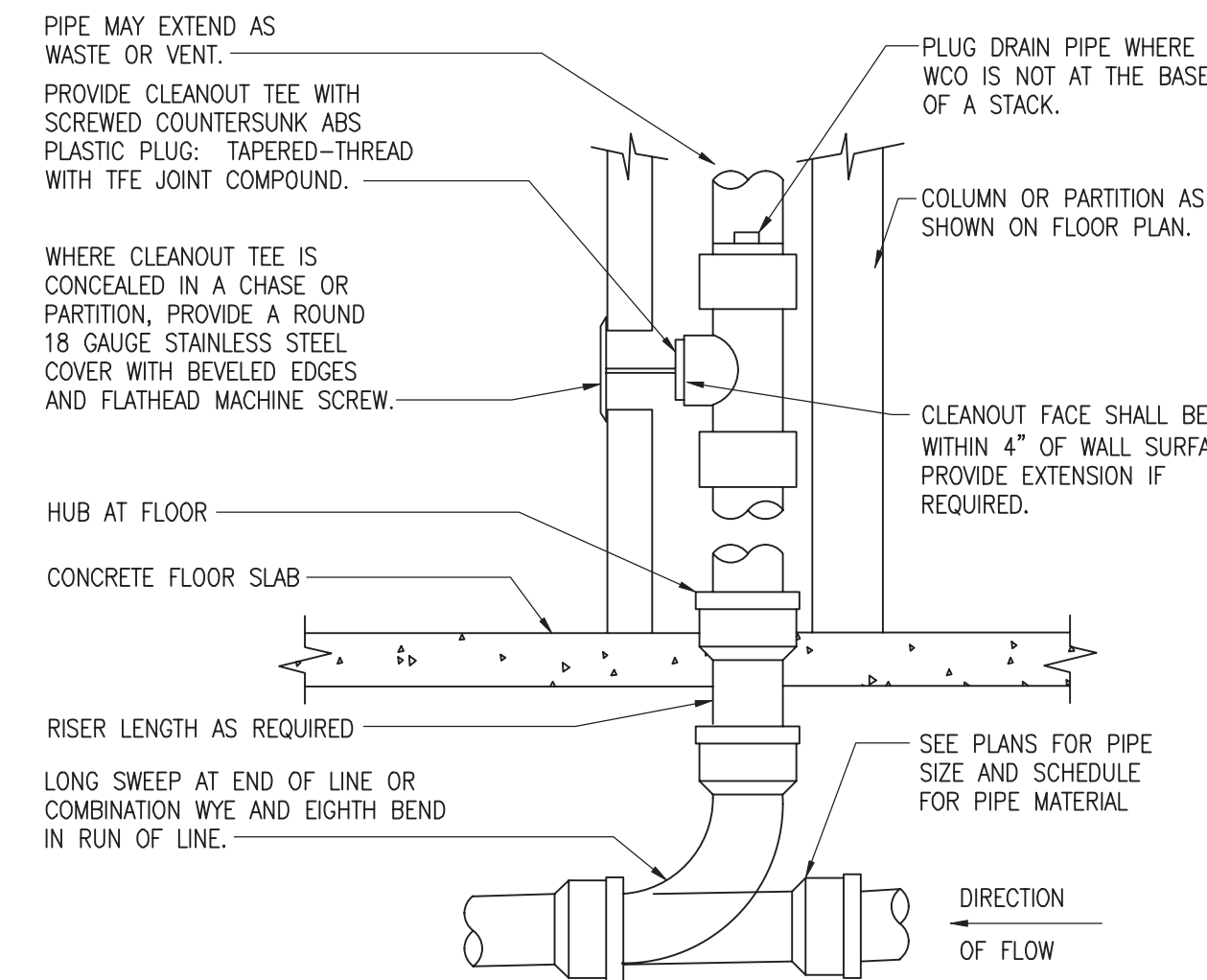
5 DOWNSPOUT ADAPTER DETAIL NO SCALE



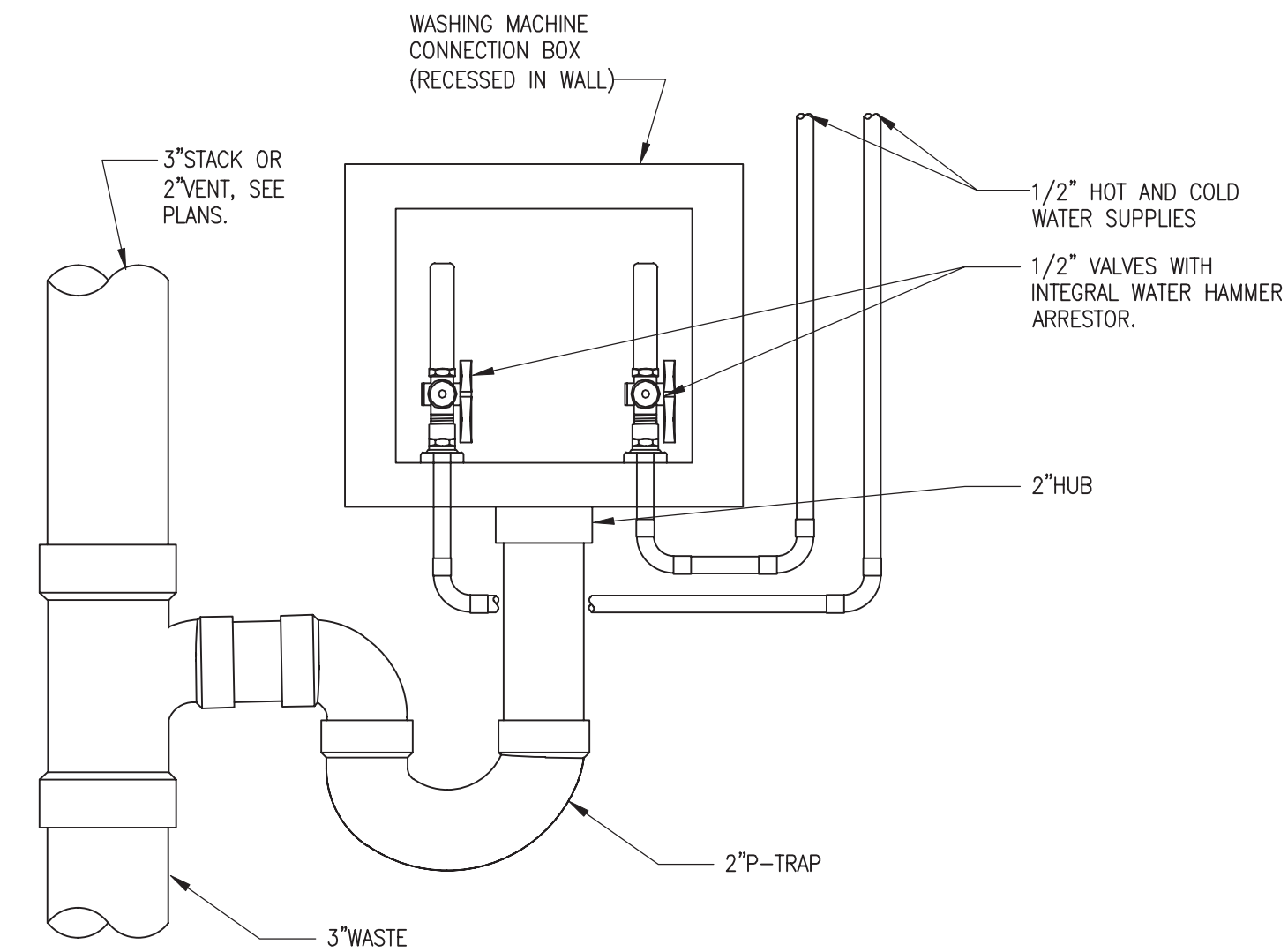
8 ICE MAKER BOX DETAIL NO SCALE



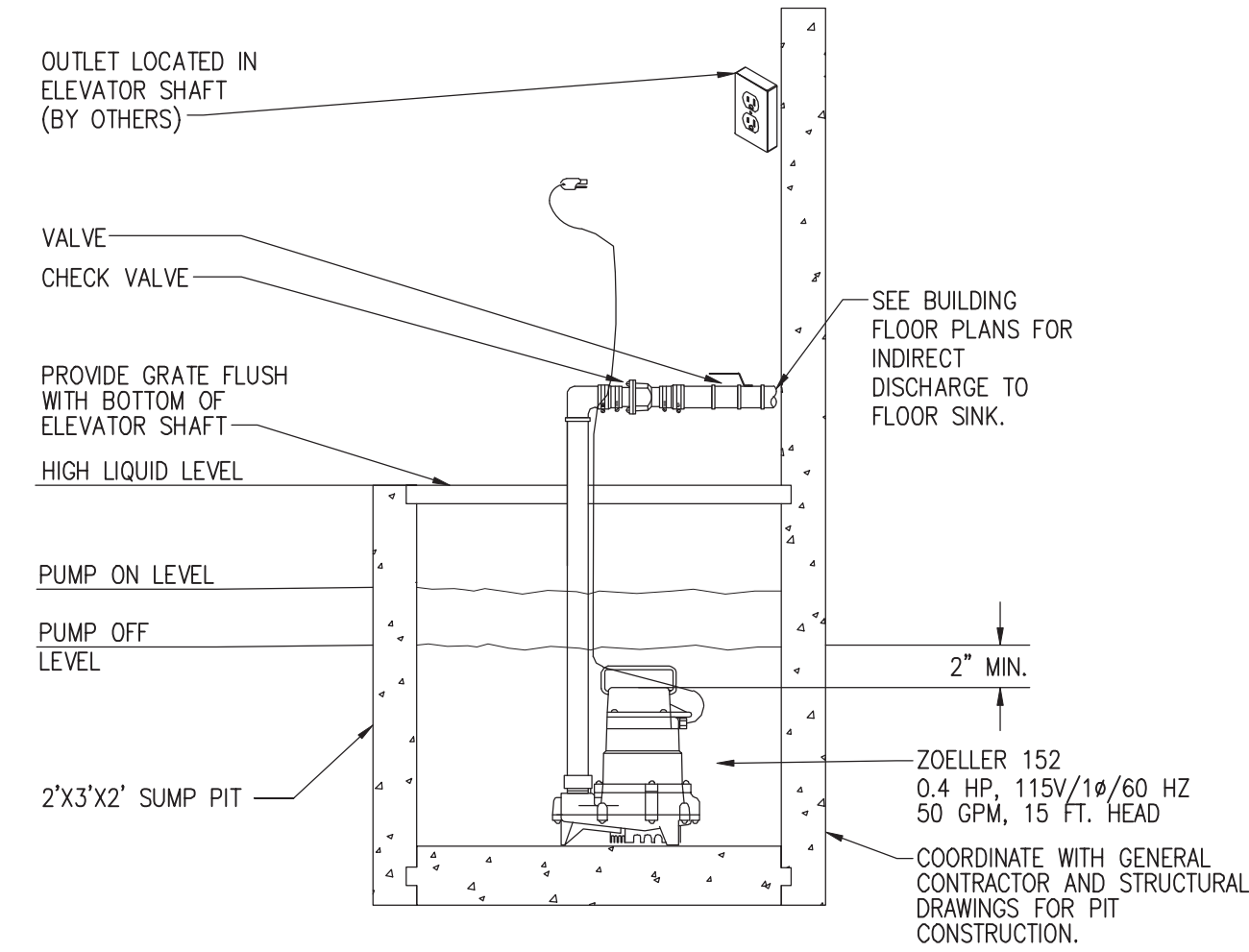
2 FLOOR DRAIN DETAIL NO SCALE



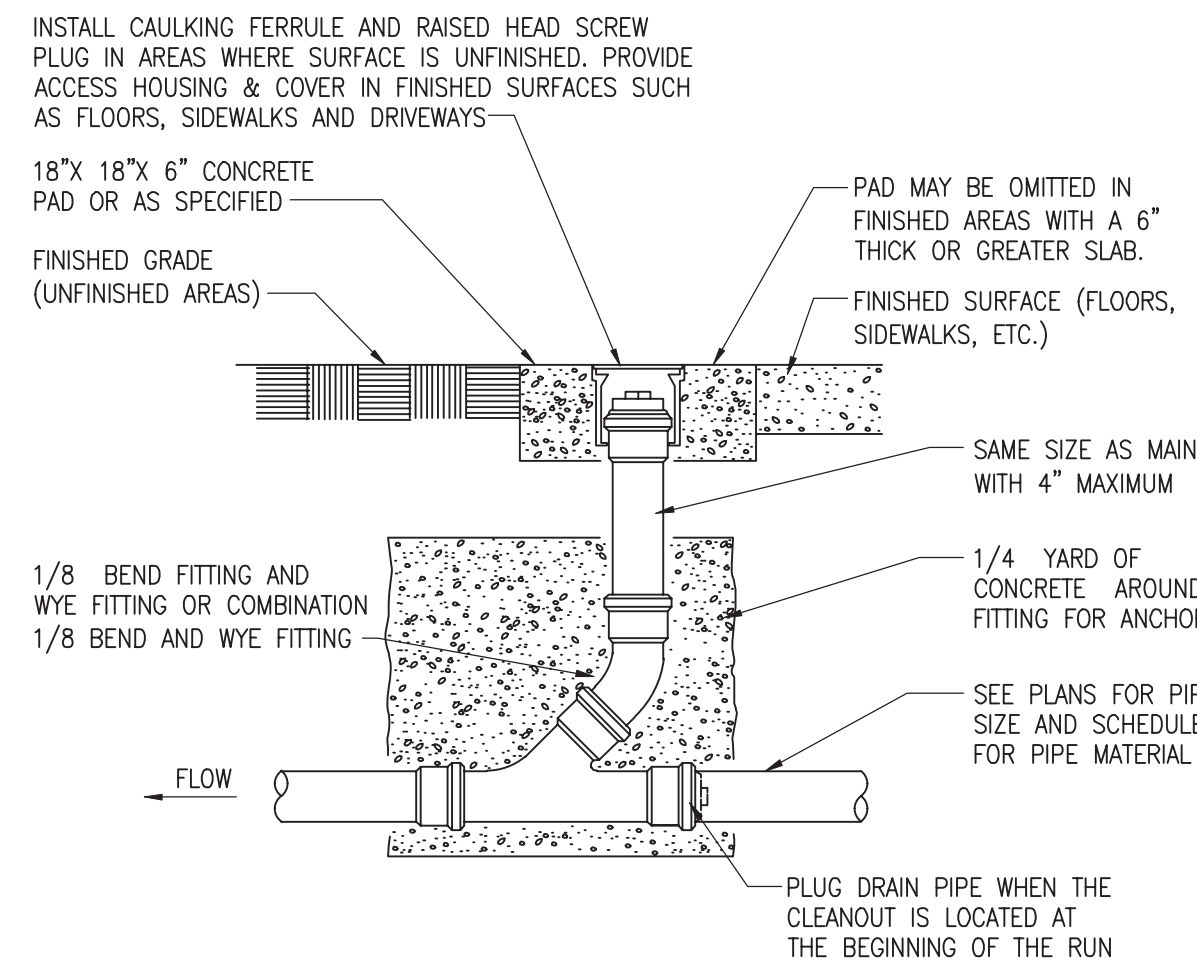
6 WALL CLEANOUT DETAIL NO SCALE



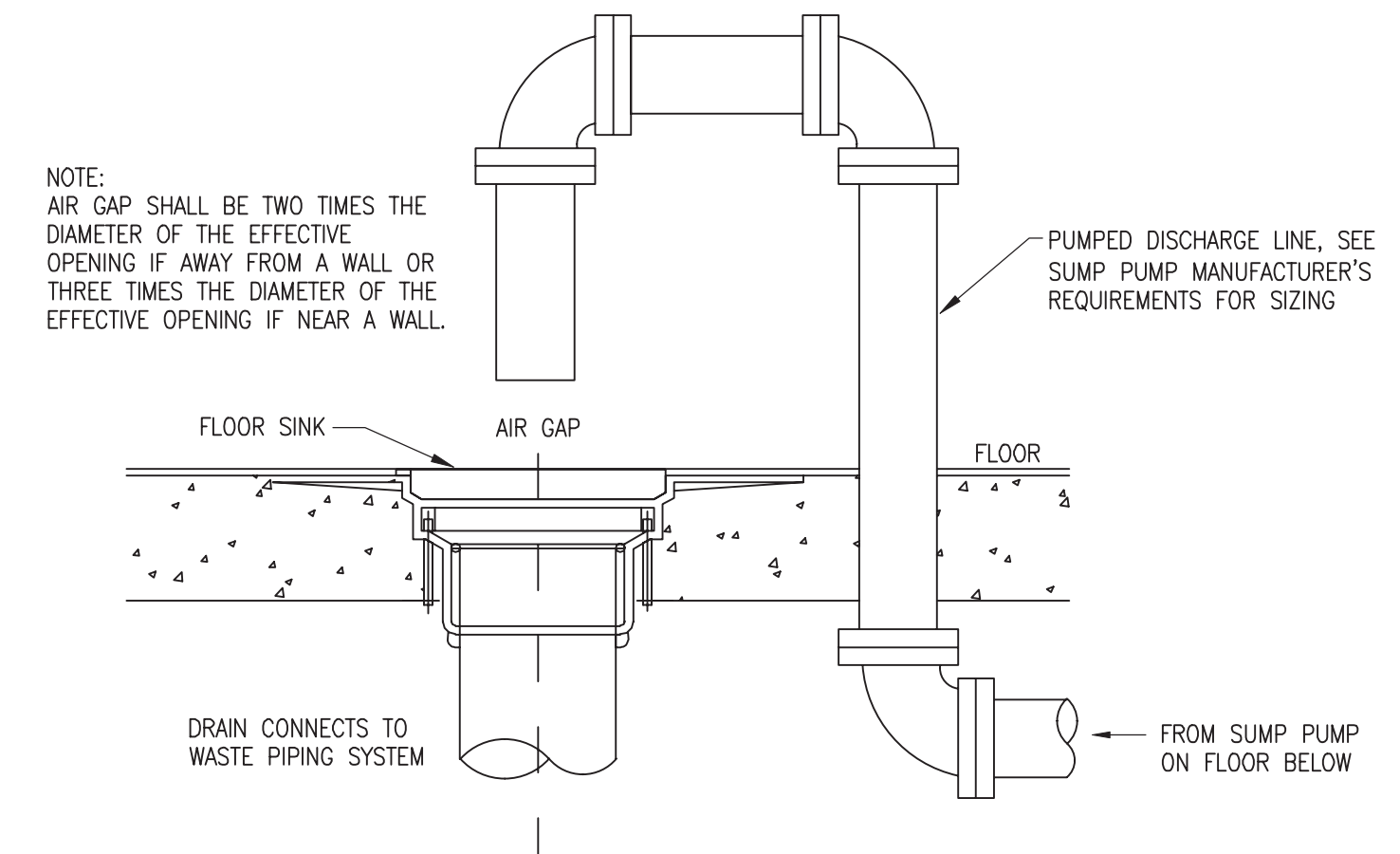
9 WASHING MACHINE BOX DETAIL NO SCALE



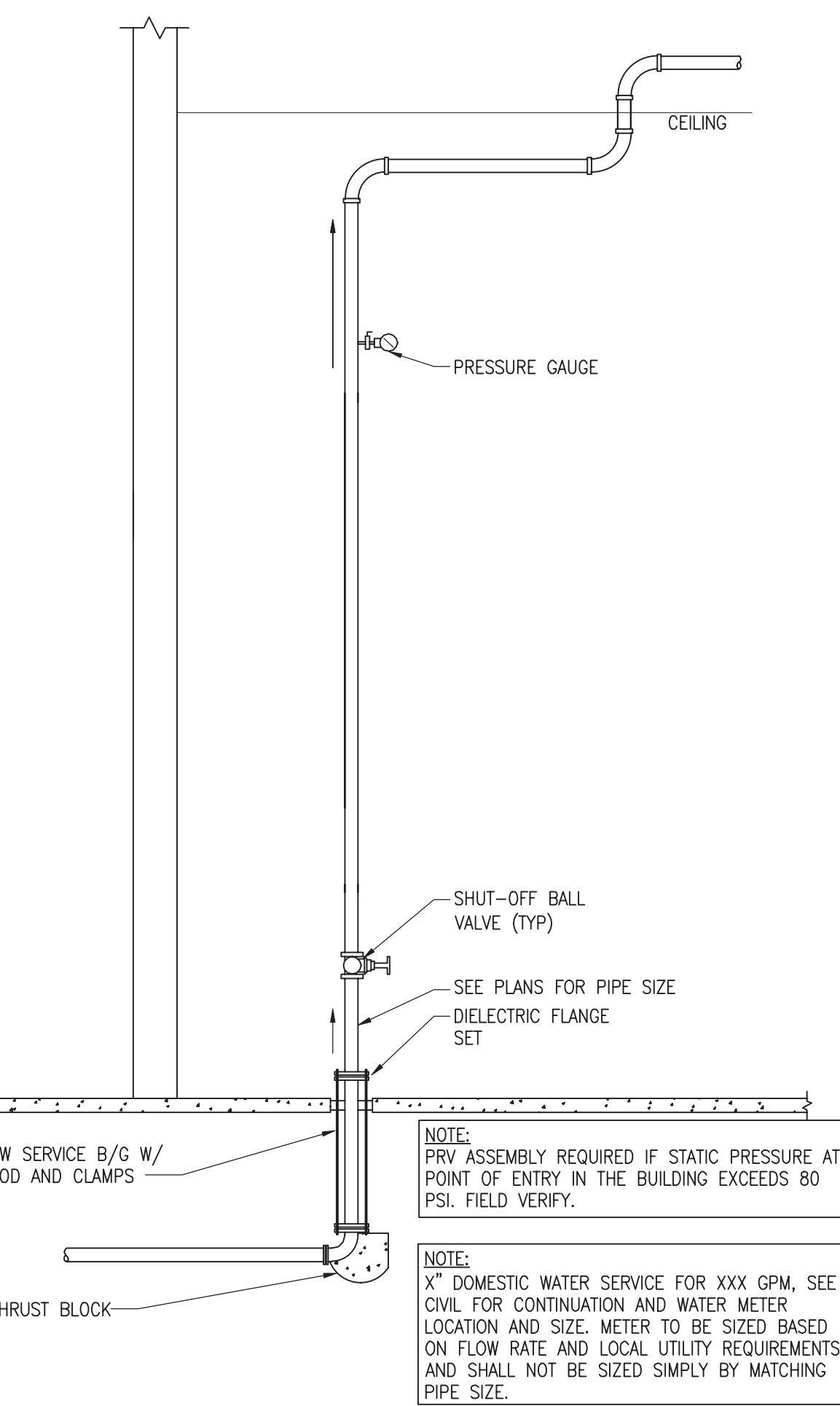
3 ELEVATOR SUMP PUMP DETAIL NO SCALE



7 FLOOR/GRADE CLEANOUT DETAIL NO SCALE



4 AIR GAP FOR SUMP PUMP DETAIL NO SCALE



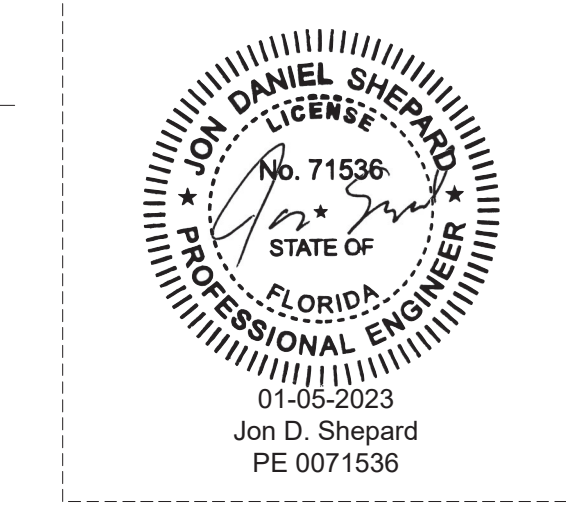
11 DOMESTIC WATER SERVICE ENTRY NO SCALE

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MILHAUS

SR-82

7780 LIGHTARD KNOTT LN FORT MYERS, FL 33905

PROJECT NO:
220035.00

PLUMBING DETAILS

SHEET NUMBER:
RP6.00

THIS LINE SHOWS AN AREA OF
SHEETS FOR ORIGINAL PAGE SIZES

E

D

C

B

A

1

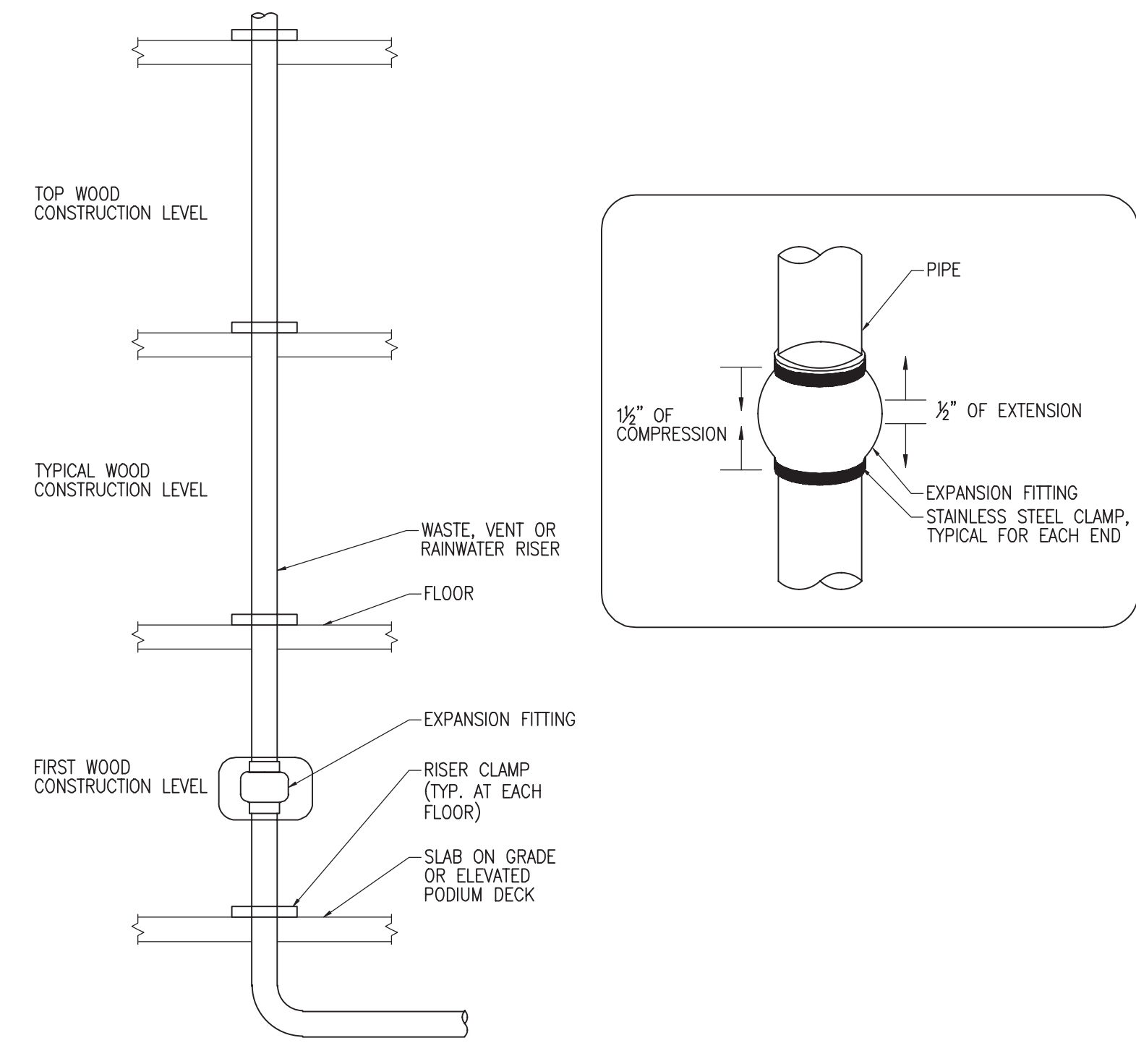
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3

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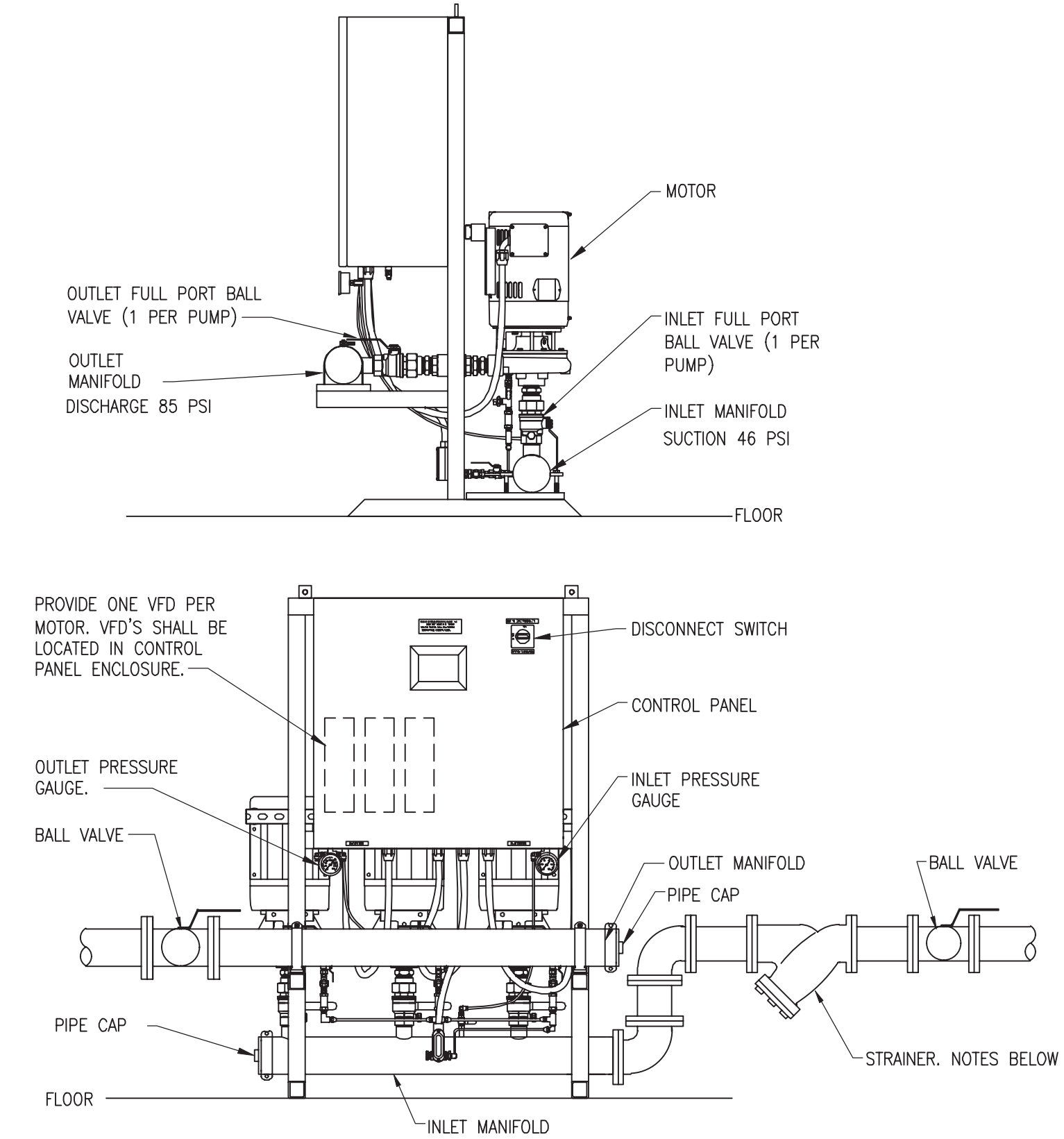
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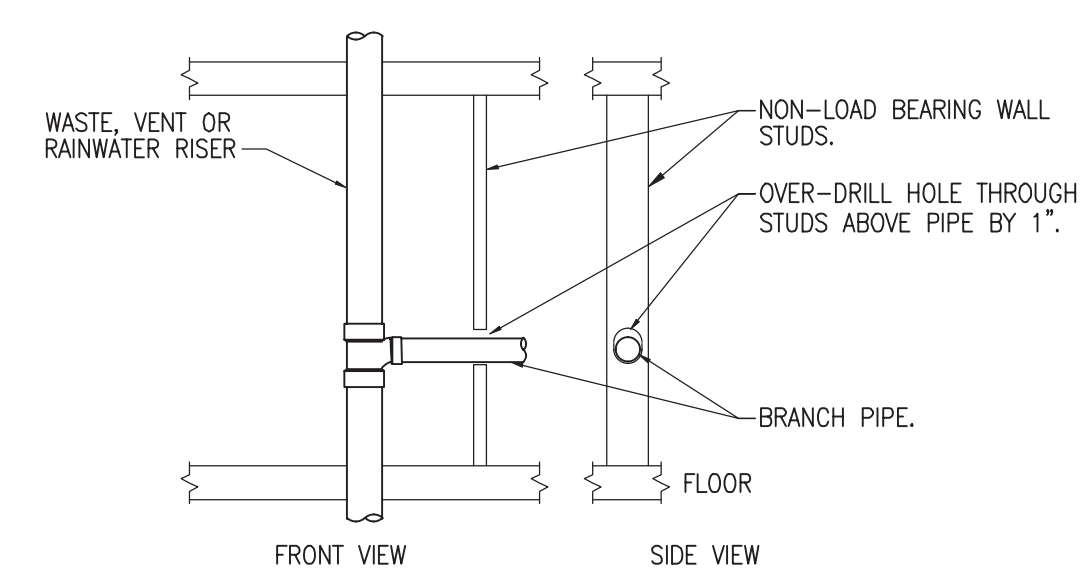
- NOTES:**
- EXPANSION FITTING SHALL BE EQUAL TO FERROCO XJ SERIES.
 - PROVIDE EXPANSION FITTINGS ON ALL VERTICAL SANITARY, WASTE, VENT OR RAINWATER RISERS ROUTED THROUGH WOOD CONSTRUCTION. EXPANSION FITTING SHALL BE LOCATED ON THE FIRST WOOD CONSTRUCTED FLOOR AND EVERY ALTERNATING FLOOR ABOVE THE FIRST LEVEL.
 - INSTALL EXPANSION FITTING 4"-0" ABOVE FLOOR HEIGHT.
 - EXPANSION FITTINGS SHALL BE INSTALLED TO ALLOW A MINIMUM OF 1/2" OF COMPRESSION AND 1/2" EXTENSION FROM NORMAL POSITION.
 - PROVIDE RISER CLAMPS AT THE BASE OF EACH STACK ON EACH FLOOR.

1 EXPANSION FITTING DETAIL
NO SCALE



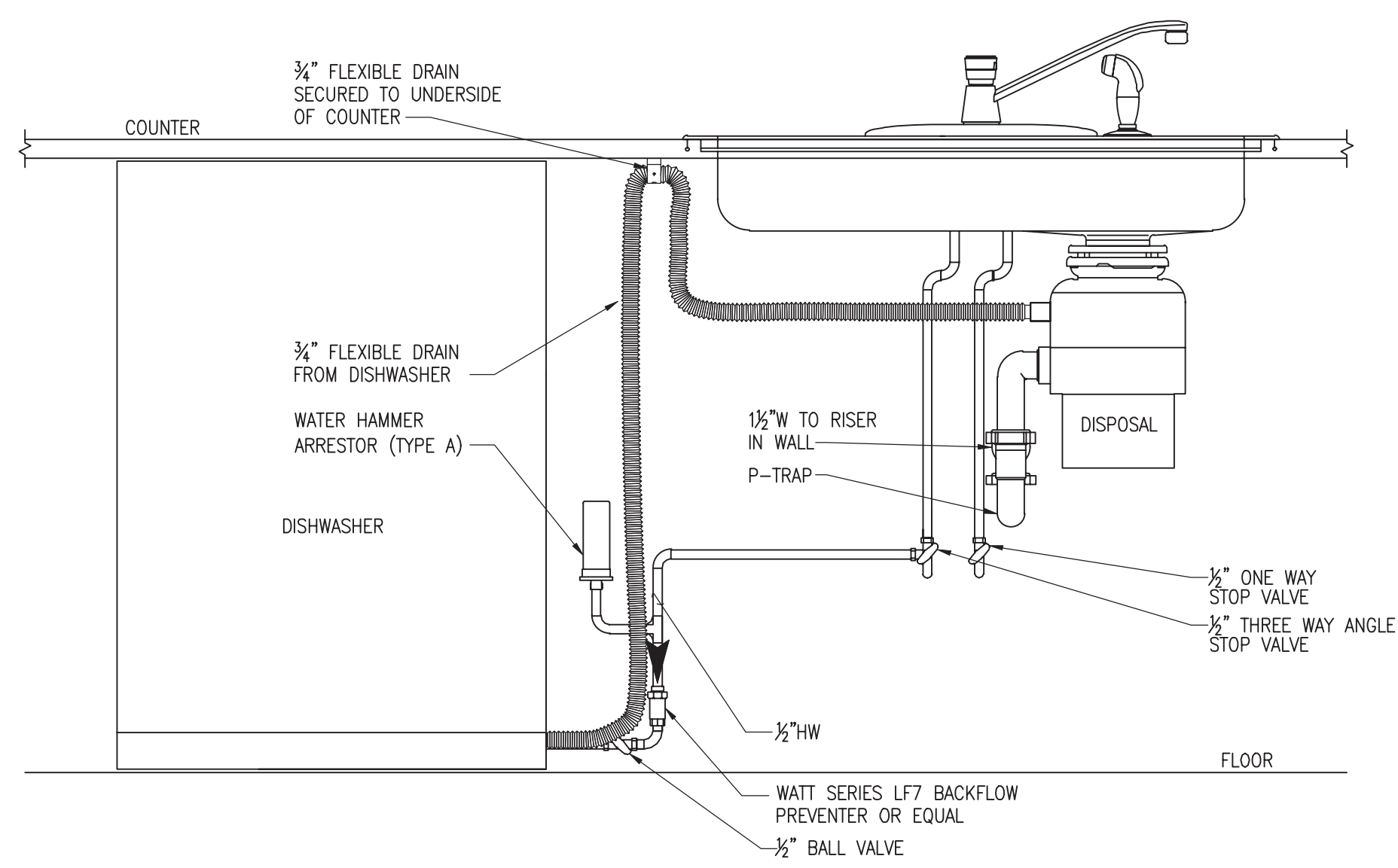
STRAINER NOTES:
STRAINERS MUST HAVE ENOUGH CLEARANCE ABOVE FLOOR & ADJACENT PIPE FOR REMOVAL OF BASKET. STRAINER SHALL NOT HAVE A PRESSURE DROP GREATER THAN 2 PSI @ FULL FLOW CONDITIONS. (SEE TABLE THIS SHEET) BASKET HOLES SHALL NOT BE GREATER THAN 1/4". BASKET SHALL BE STAINLESS STEEL, WILKINS MODEL FS OR EQUAL.

2 DOMESTIC PUMP DIAGRAM
SCALE: NO SCALE



OVER BORED HOLES ARE NOT A SUBSTITUTION FOR EXPANSION FITTINGS. SEE EXPANSION FITTING DETAIL. REFER TO STRUCTURAL DETAILS FOR OVER BORED WALL PENETRATIONS.

3 PIPE WALL STUD PENETRATION DETAIL
NO SCALE



4 DISHWASHER/DISPOSAL PIPING DETAIL
NO SCALE

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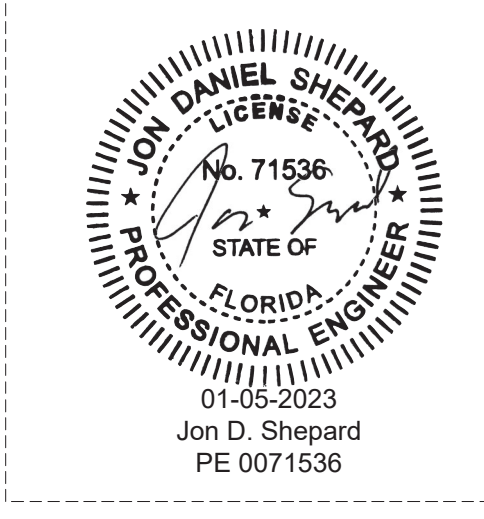
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MILHAUS

SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

PLUMBING DETAILS

SHEET NUMBER:
RP6.01

1

2

3

4

5

6

THE LINE SHOWN ABOVE IS
A SCHEDULE FOR INITIAL PRICE LIST

E

D

C

B

A

1

2

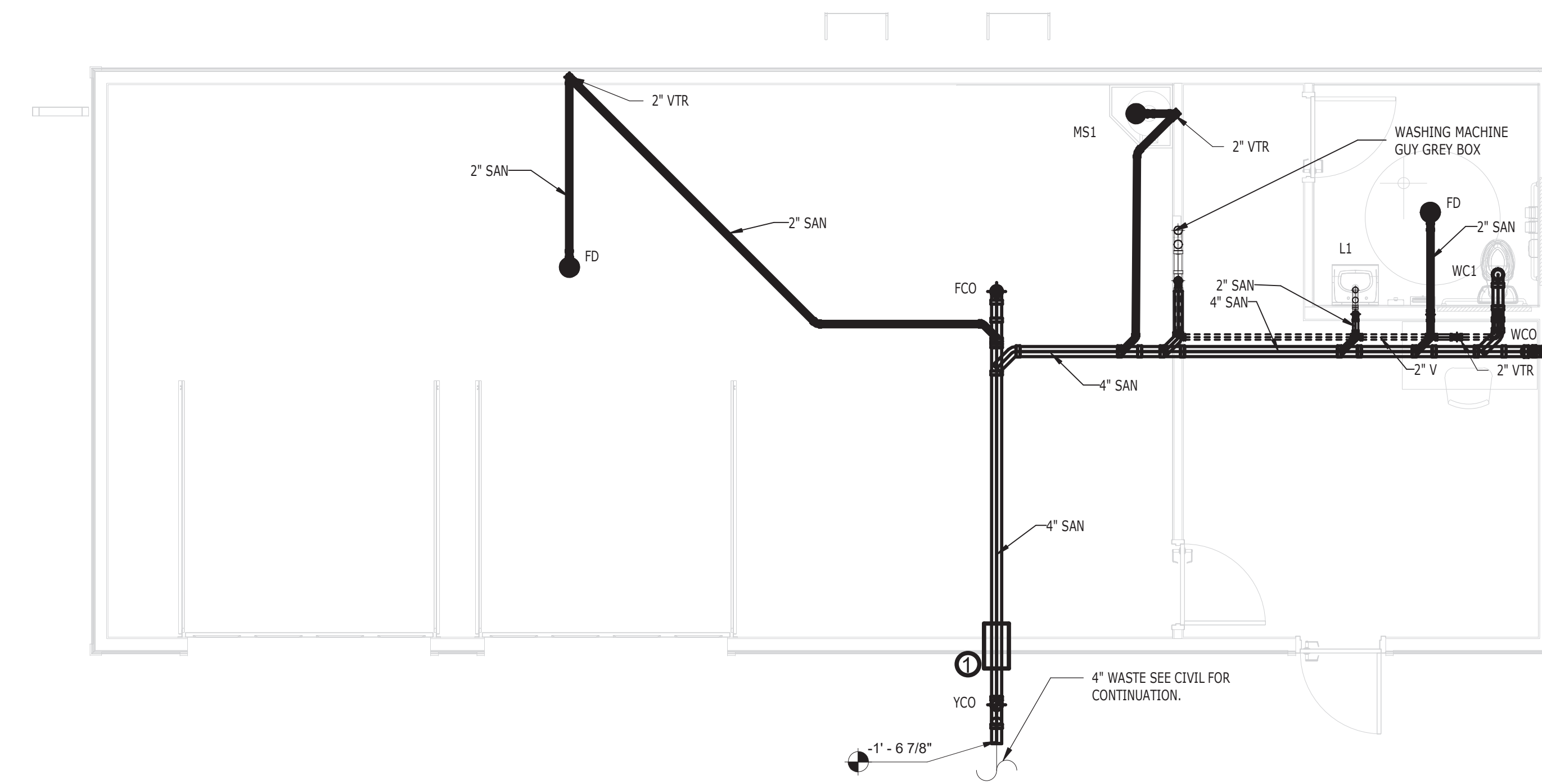
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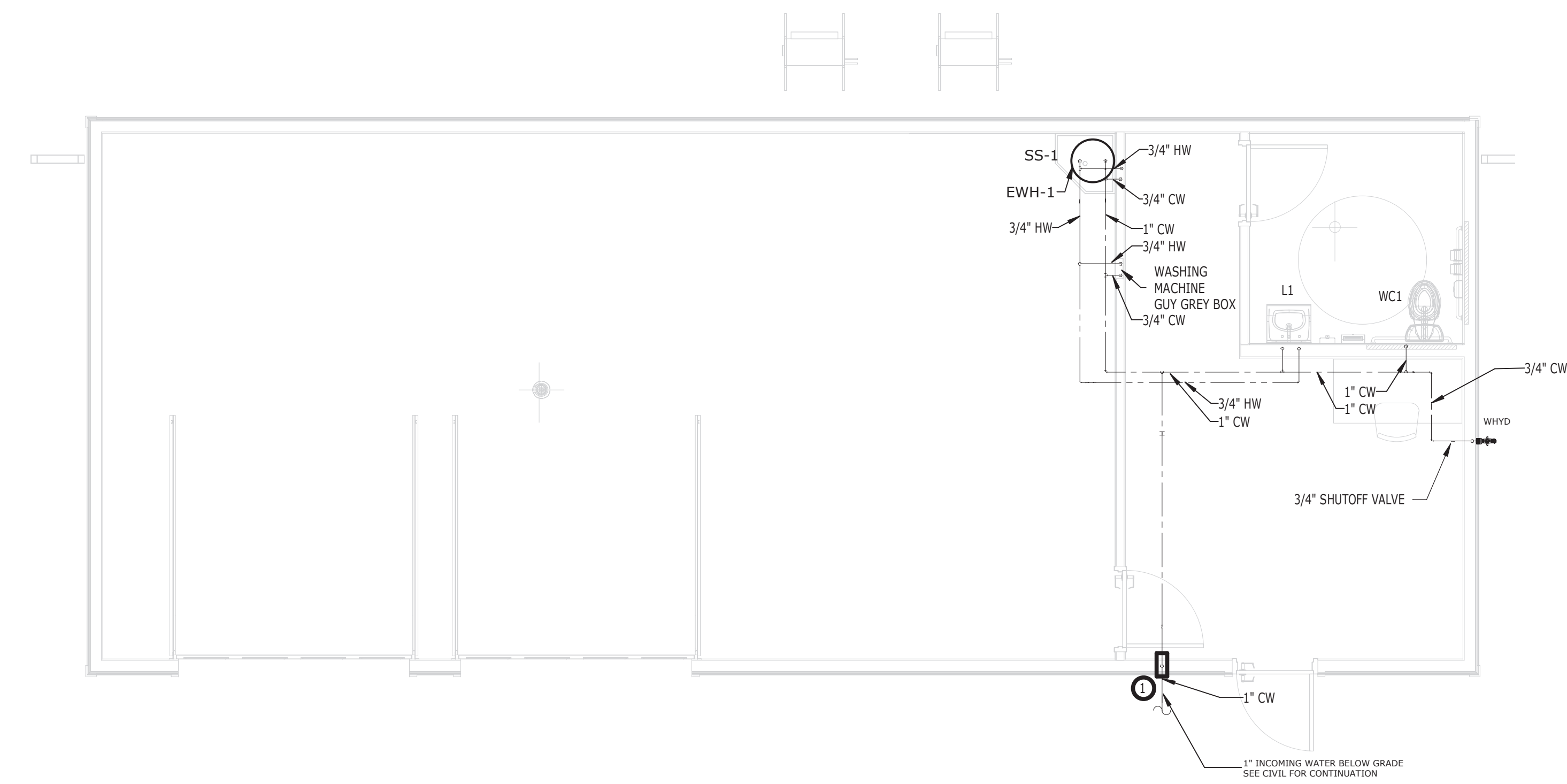
5

6

PLUMBING NOTES
1. PROVIDE SLEEVE OR RELIEF ARCH FOR PIPING PASSING THROUGH OR BELOW THE BUILDING.



① MAINTENANCE BUILDING - SANITARY AND VENT PLAN
1/4" = 1'-0"



② MAINTENANCE BUILDING - DOMESTIC WATER PLAN
1/4" = 1'-0"

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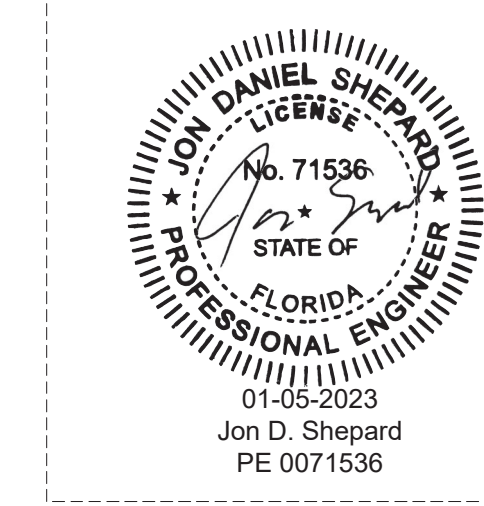
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MILHAUS

SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

MAINTENANCE BUILDING - PLUMBING PLAN

SHEET NUMBER:
AP1.00

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1

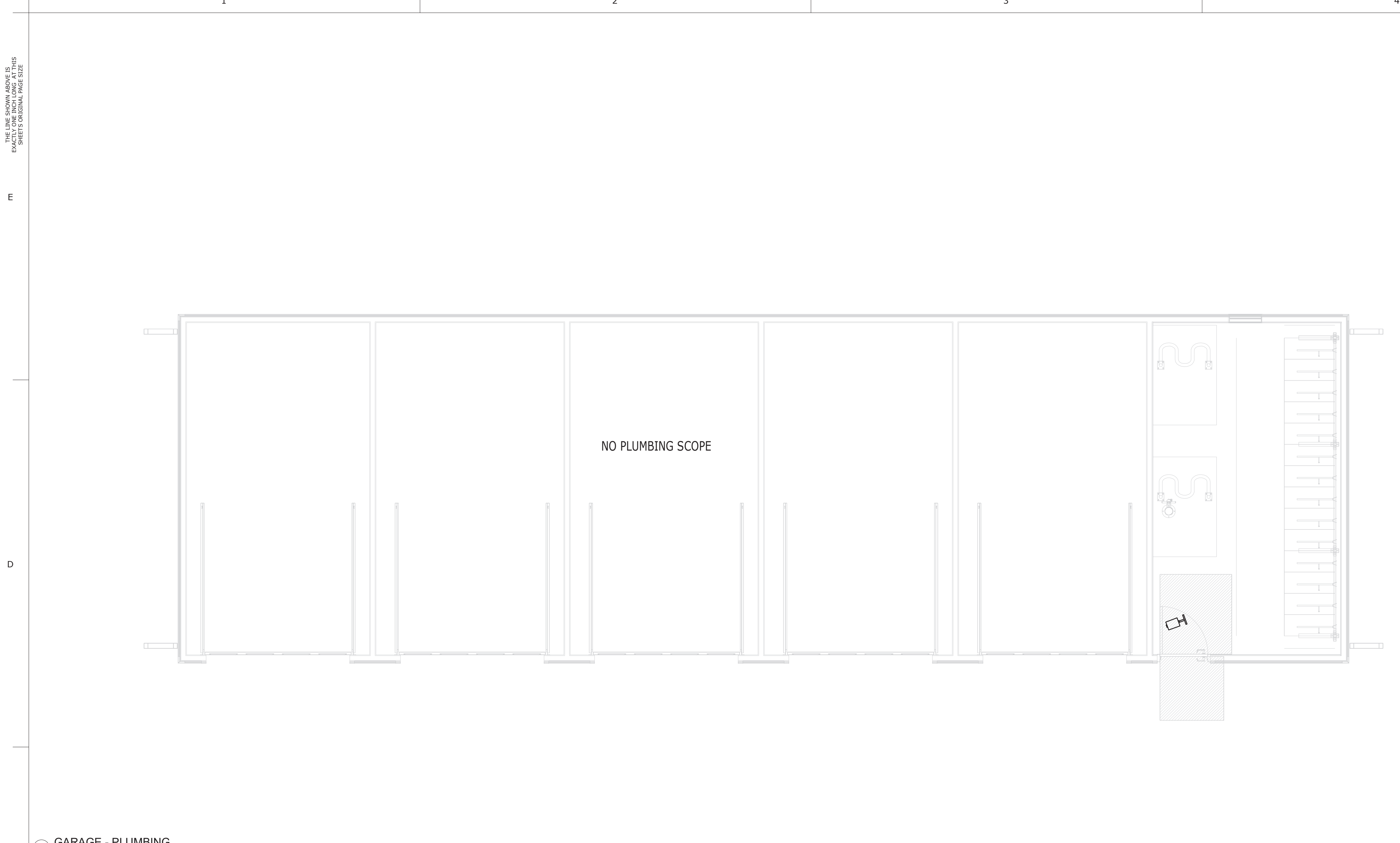
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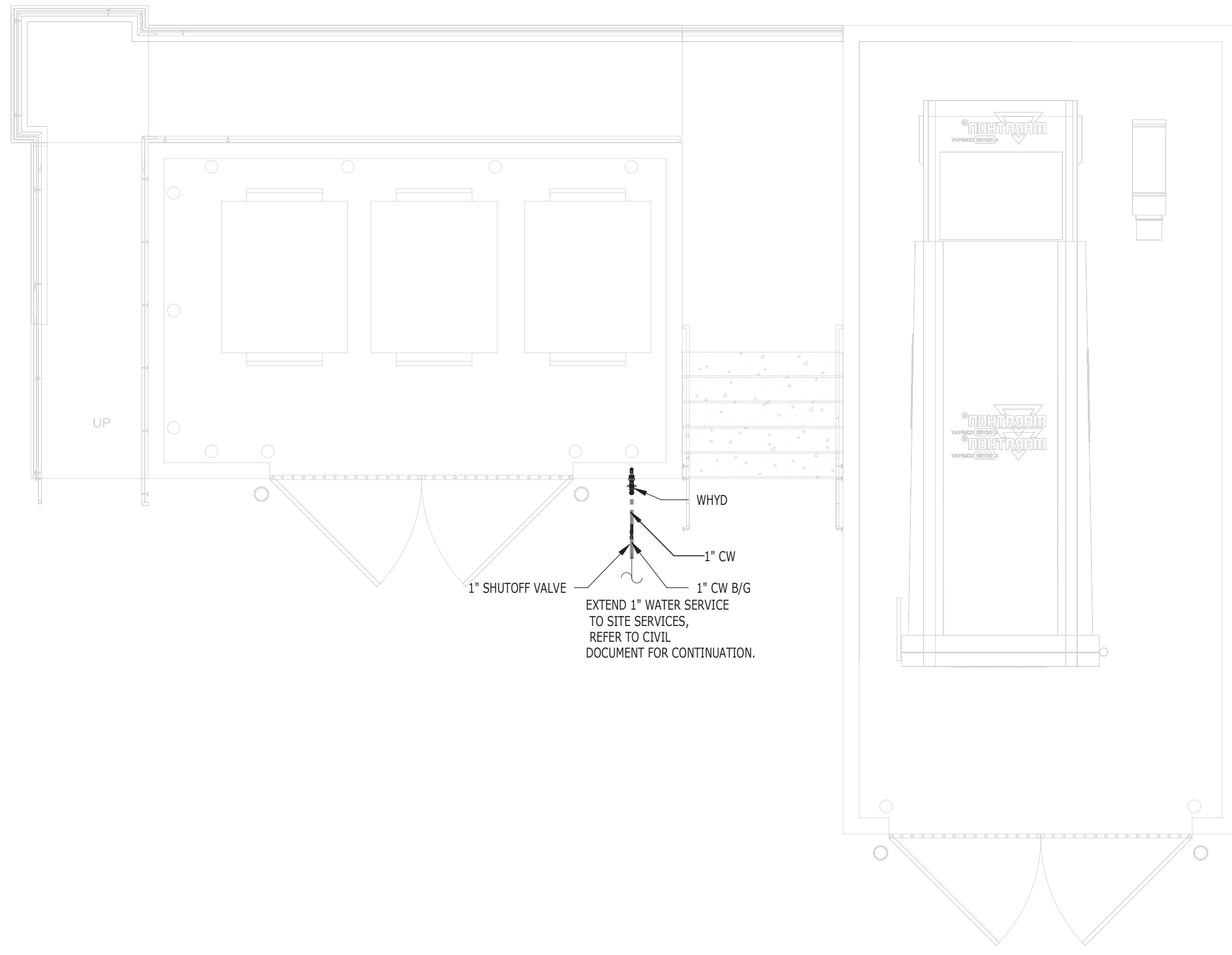
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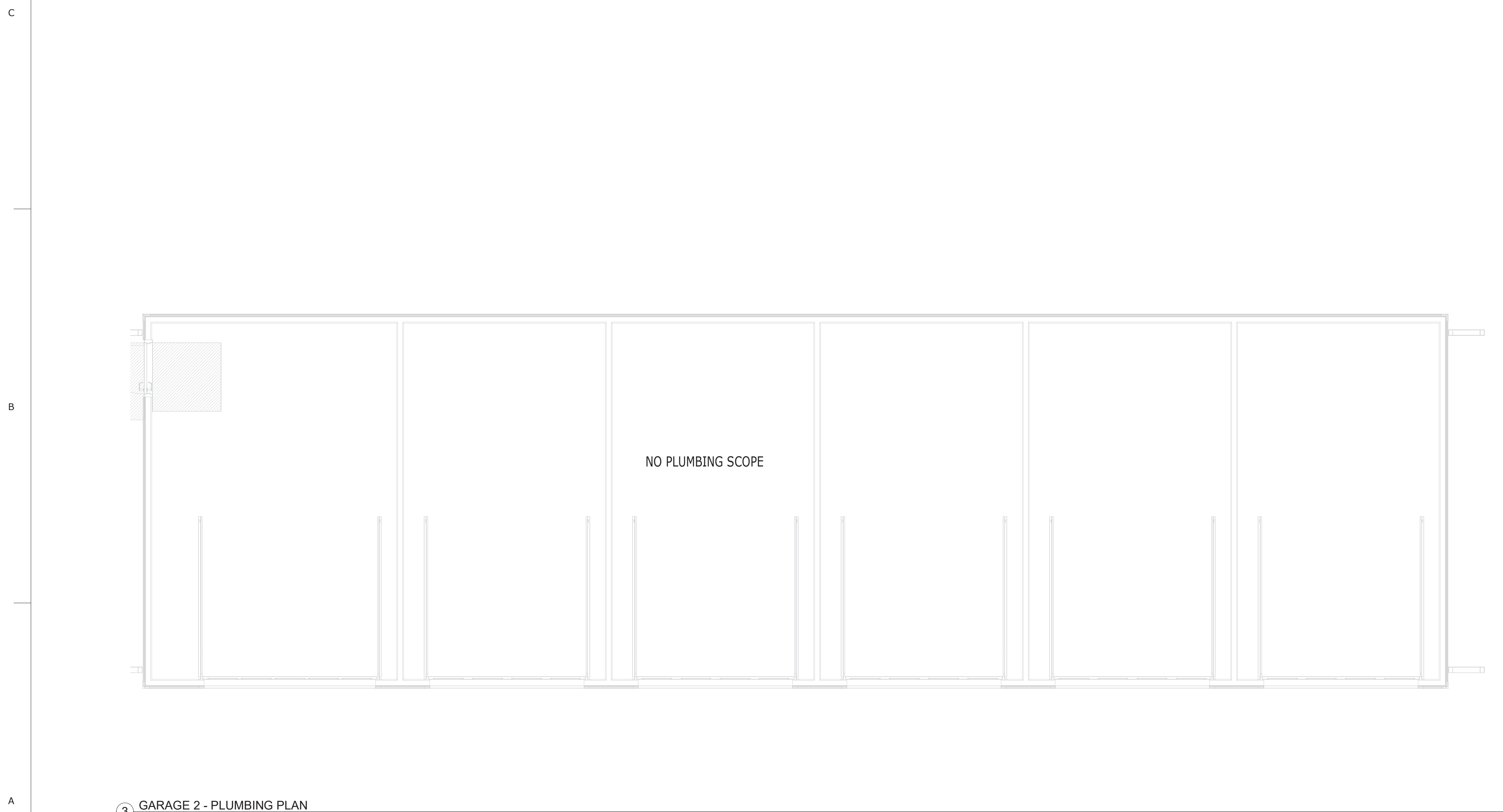
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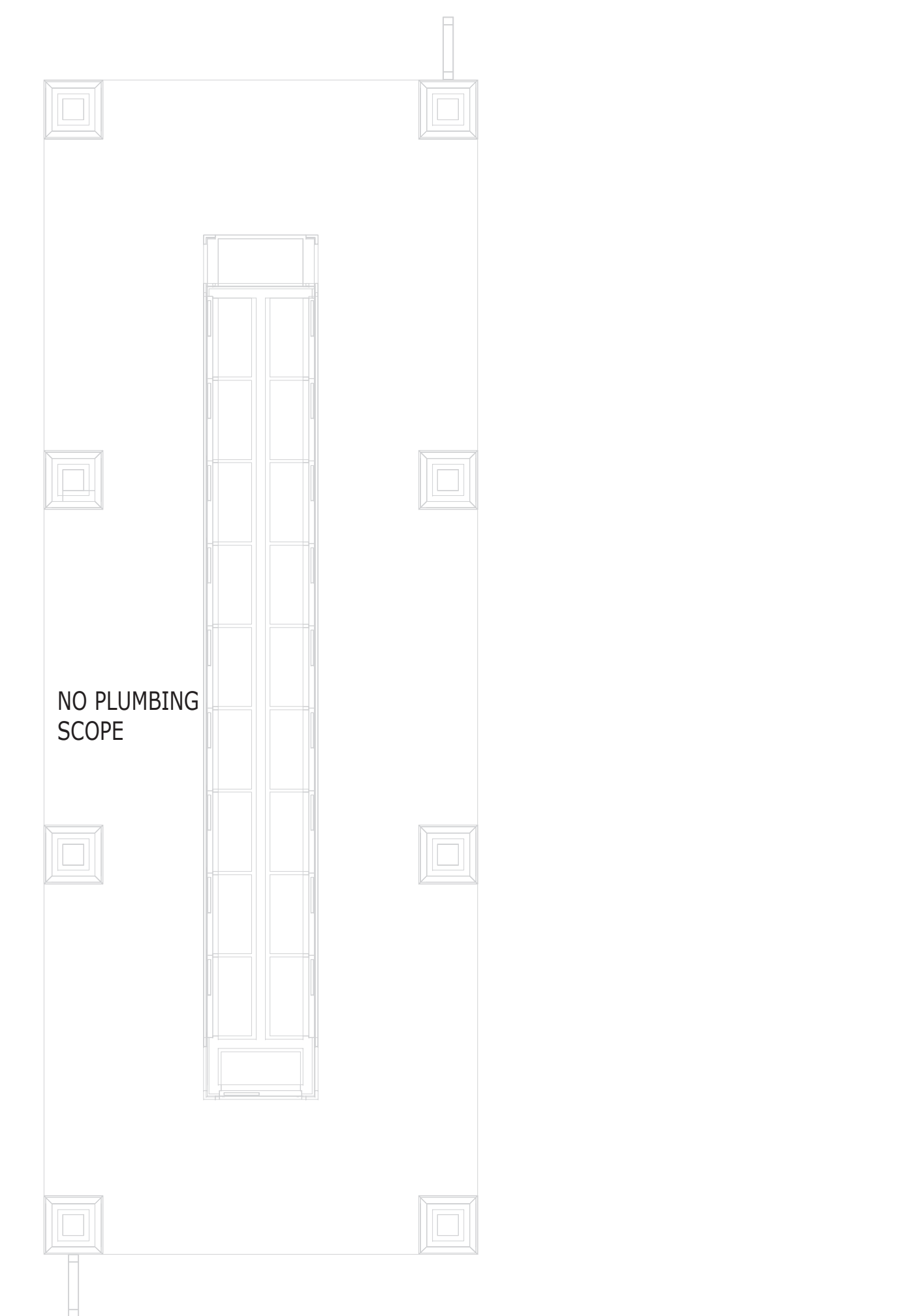
2 GARAGE - PLUMBING
1/4" = 1'-0"



1 PLUMBING PLAN - TRASH COMPACTOR
1/4" = 1'-0"



3 GARAGE 2 - PLUMBING PLAN
1/4" = 1'-0"



4 MAIL KIOSKS - PLUMBING
1/4" = 1'-0"

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Eng. License No. 71536
Professional Engineer
Jon D. Shepard
PE 0071536

State of Florida
Professional Engineer

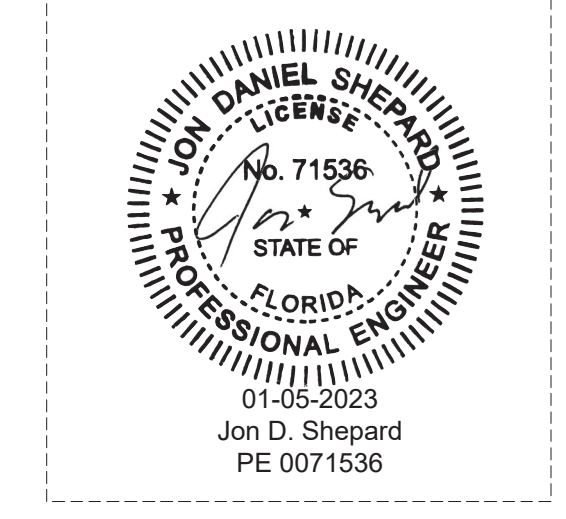
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FORT MYERS, FL 33905

PROJECT NO:
220035.00

ACCESSORY BUILDINGS - PLUMBING PLAN

SHEET NUMBER:
AP2.00

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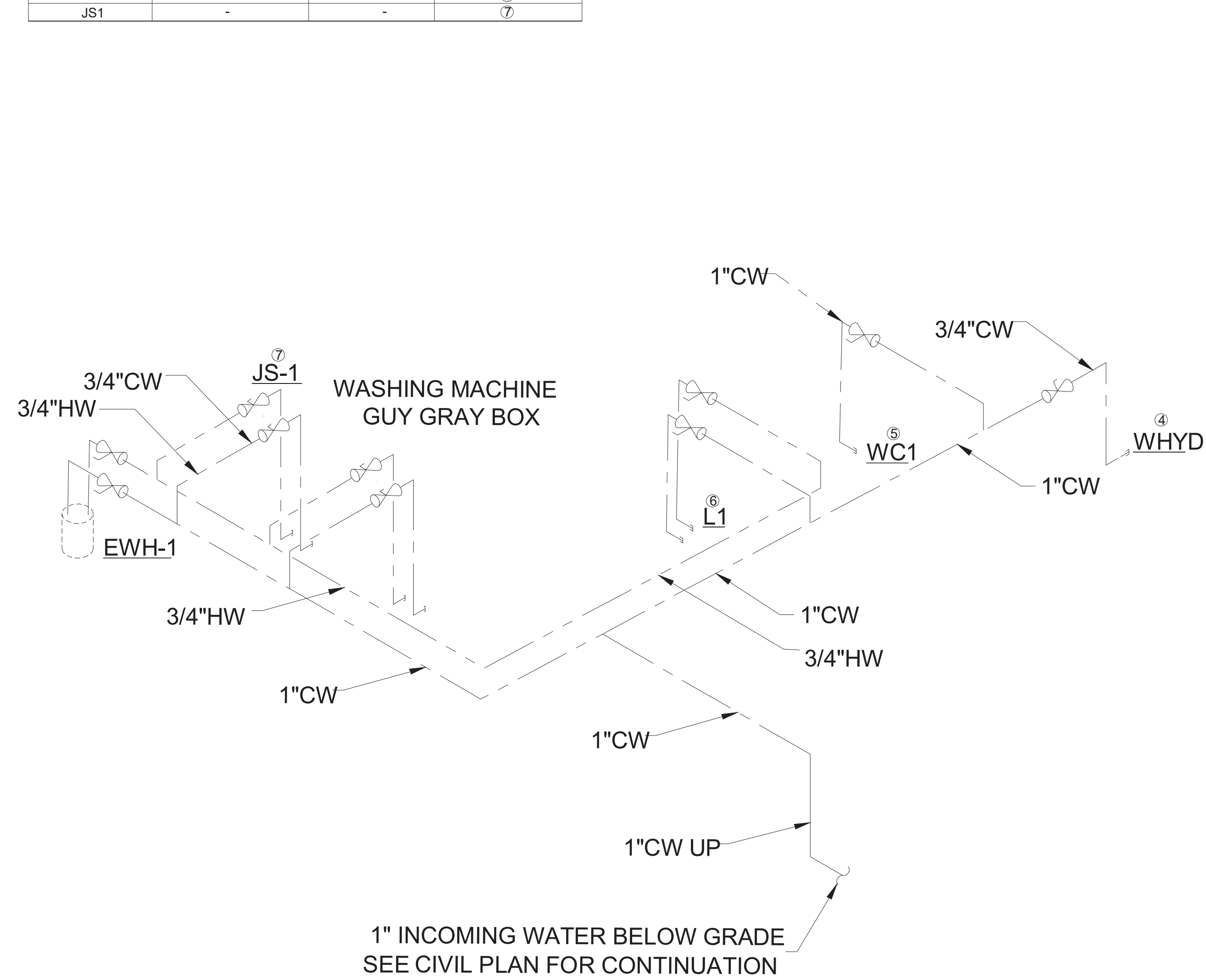
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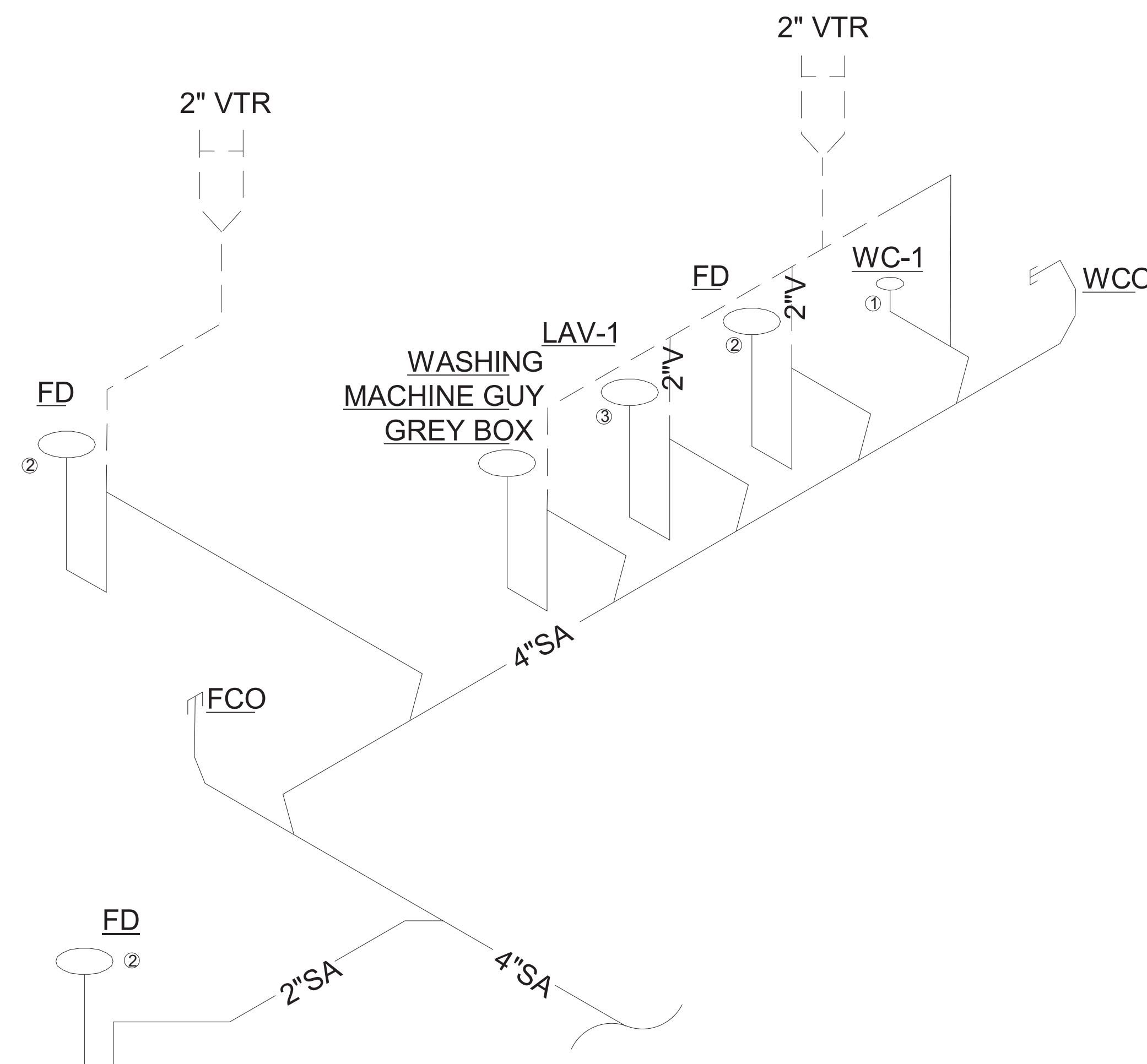
A

PLUMBING LEGENDS			
FIXTURE	CWSFU	HWSFU	NOTE
WHYD	5.0	-	④
WC1	5.0	-	⑤
L1	1.5	1.5	⑥
JS1	-	-	⑦



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PLUMBING LEGENDS		
FIXTURE	DFU	NOTE
WC1	4	①
SH1	2	②
L1	2	③



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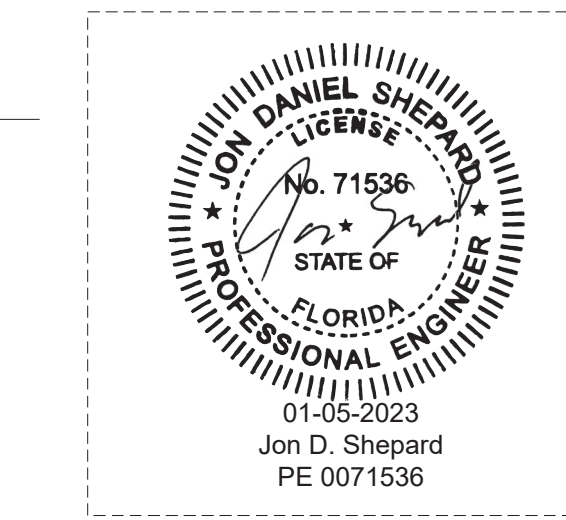
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FORT MYERS, FL 33905

PROJECT NO:
220035.00

PLUMBING RISERS

SHEET NUMBER:
AP3.00

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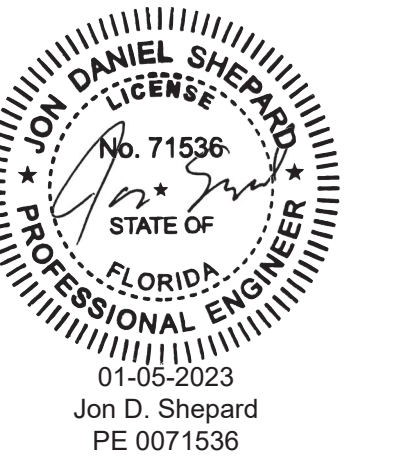
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PLUMBING FIXTURE SCHEDULE ACCESSORY																	
TAG	QUANTITY	DESCRIPTION	FIXTURE TYPE				FIXTURE CONNECTION					FIXTURE UNITS					
			TYPE	VALVE	FAUCET	MATERIAL	REMARKS	WASTE TRAP	DIRECT	INDIRECT	VENT (INCHES)	DOMESTIC SUPPLY COLD	DOMESTIC SUPPLY HOT	COLD WATER	HOT WATER	TOTAL SUPPLY	SANITARY
<u>WC1</u>	1	AMERICAN STANDARD MODEL #2467.016, "CADET" RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED	TANK, PRESSURE ASSIST	-	VITREOUS CHINA	VITREOUS CHINA	Fixture performance and specifications meet or exceed ASME A112.19.2-2008/CSA B45.1-08 standards, and other state and local codes. UNIT TO BE PROVIDED WITH LAVATORY CARRIER ASSEMBLY, OFF-SET GRID STRAINER ASSEMBLY WITH CHROME TAILPIECE AND CHROME P-TRAP ASSEMBLY, LOOSE KEY STOPS, ESCUTHEONS, ETC. UNIT TO BE PROVIDED WITH "TRUEBRO" VINYL PIPE INSULATION KIT.	3"	3"	-	2"	1"	5	0	5	4	
<u>L1</u>	1	LAVATORY	American Standard Lucerne 0355012PL020-1/2" Wall Mounted Porcelain Bathroom Sink	-	Manual Sink Faucets 802-317XKAB CP	VITREOUS CHINA	ASSEMBLY, OFF-SET GRID STRAINER ASSEMBLY WITH CHROME TAILPIECE AND CHROME P-TRAP ASSEMBLY, LOOSE KEY STOPS, ESCUTHEONS, ETC. UNIT TO BE PROVIDED WITH "TRUEBRO" VINYL PIPE INSULATION KIT.	1-1/2"	1-1/2"	-	2"	3/4"	3/4"	1.5	1.5	2	2
<u>JS1</u>	2	MOP SINK	MSB2424 - 24" X 24" Molded Stone Mop Service Basin	-	Service-Sink Faucet Model: 830-AA	STAINLESS STEEL	Tiling flanges are optional, made of stainless steel, and extend 1" above the shoulder on 1, 2, or 3 sides, as required.	3"	3"	-	2"	3/4"	3/4"	3	3	4.5	6
<u>FD</u>	3	FLOOR DRAIN	-	-	-	-	FLOOR DRAIN TO BE PROVIDED IN ALL COMMON BATHROOM AREAS INCLUDING SINGLE USER COMMON BATHROOMS.	3"	3"	-	-	-	-	-	-	-	4
<u>WHYD</u>	2	<u>WHYD</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:
 INSTALL BACKING AND SUPPORTS AS REQUIRED FOR ALL FIXTURES AND ACCESSORIES.
 ALL FIXTURES SHALL MEET ADA AND LOCAL CODES
 SUPPLY PIPING AND FITTING FOR ALL FIXTURES SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW
 ALL FIXTURES SHALL BE PROVIDED WITH ACCESSIBLE SHUT OFF VALVES AT COLD AND HOT WATER PIPING CONNECTIONS
 PROVIDE INSULATION FOR ALL PIPING IN EXTERIOR WALLS.
 ALL PLUMBING FIXTURES SHALL BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO PURCHASE.
 HOT WATER TO ALL LAVATORIES AND HAND SINKS SHALL NOT EXCEED 110 DEGREES.
 COORDINATE ADA HEIGHT REQUIREMENTS WITH ARCHITECT DRAWINGS.
 ALL HAND SINKS SHALL BE PROVIDED WITH APPROVED AUTOMATIC SAFETY WATER MIXING DEVICE AND PRESSURE BALANCE

6 SUPPLY FIXTURE UNITS FOR SPACE WHICH IS EQUAL TO 9.2 GPM AND REQUIRES NO LESS THAN A 1 1/4" PIPE.

 9 DRAINAGE FIXTURE UNITS FOR THE SPACE WHICH REQUIRES NO LESS THAN 6" PIPE.

ELECTRIC WATER HEATER SCHEDULE															
EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	UNIT TYPE	CAPACITY (GALLONS)	WEIGHT (LBS.)	DIMENSIONS (INCHES)				ELECTRICAL				NOTES
							DIAMETER	WIDTH	DEPTH	HEIGHT	MCA	MOCP	PHASE	VOLTS	
EW-1	SEE PLAN	AO SMITH	ENLB-40	TANK TYPE	38	118	23"	23"	23"	32"	4.4	15.0	1.0	240.0	2,3,4

NOTES:
 1. SEE ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. PROVIDE ONE WATER HEATER PER APARTMENT UNIT.
 2. PROVIDE ONE WATER HEATER PER APARTMENT UNIT.
 3. ACCEPTABLE EQUAL MANUFACTURERS ARE A.O. SMITH, BRADFORD WHITE, LOCKINVAR, PVI, RHEEM OR STATE.
 4. IF WATER HEATER IS SUPPLIED WITH AN INSULATION BLANKET TO MEET THE REQUIRED ENERGY FACTOR, THE BLANKET MUST BE PLENUM RATED. NON-PLENUM RATED BLANKETS SUPPLIED BY THE MANUFACTURER MUST BE REPLACED WITH AN INSULATION BLANKET FROM AN INSULATION MANUFACTURER THAT IS PLENUM RATED. PLENUM RATED BLANKETS ARE NOT REQUIRED IF THE WATER HEATER IS NOT IN A PLENUM OR IS NOT LOCATED IN A CLOSET SHARED WITH HVAC EQUIPMENT.



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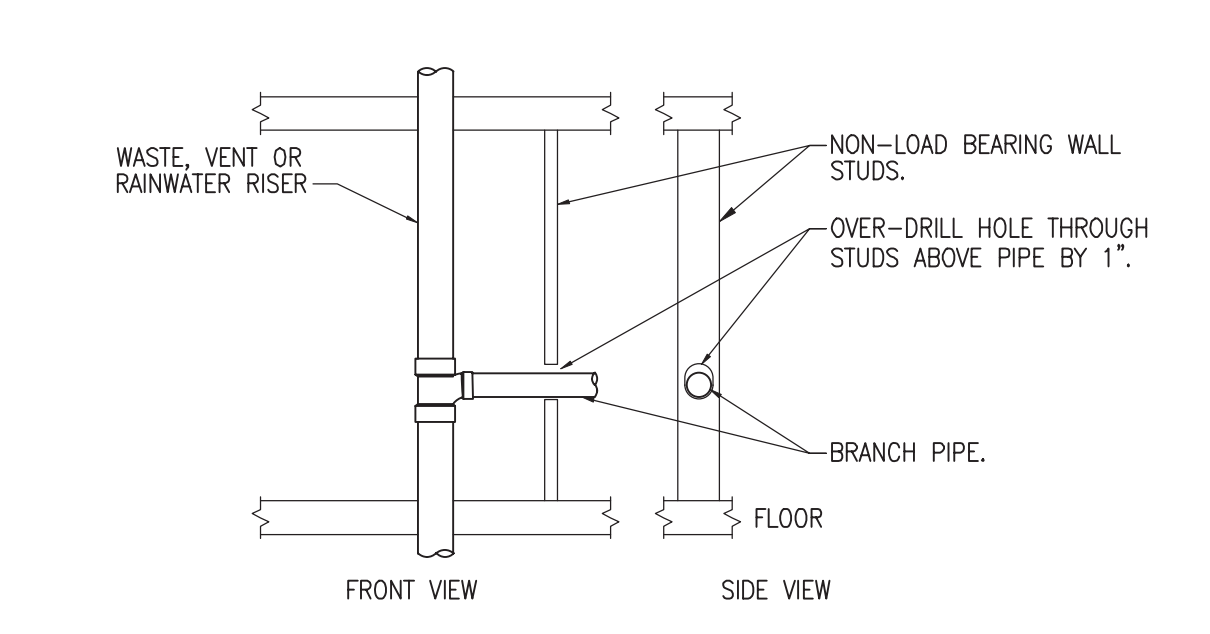
SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
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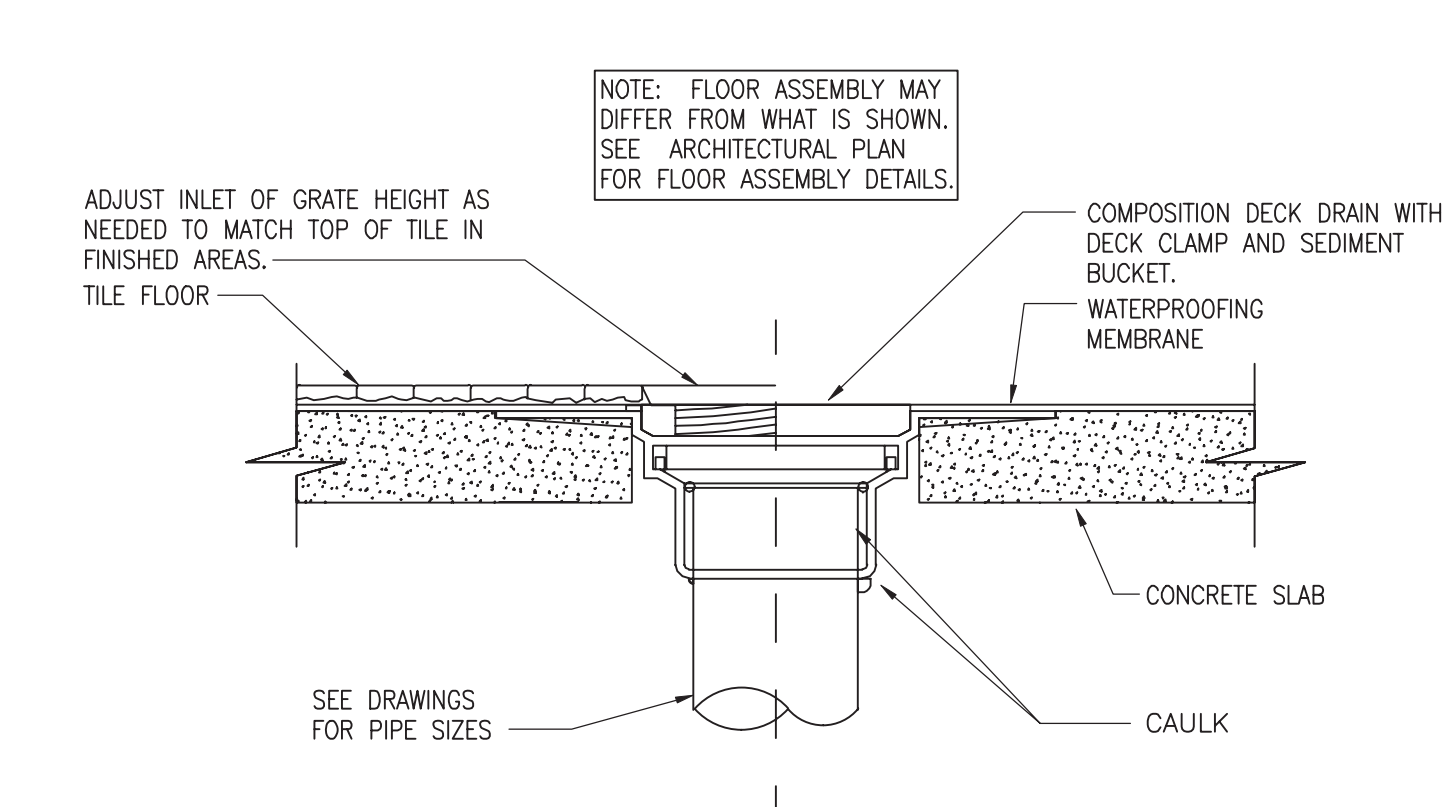
PLUMBING SCHEDULES

SHEET NUMBER:
AP4.00

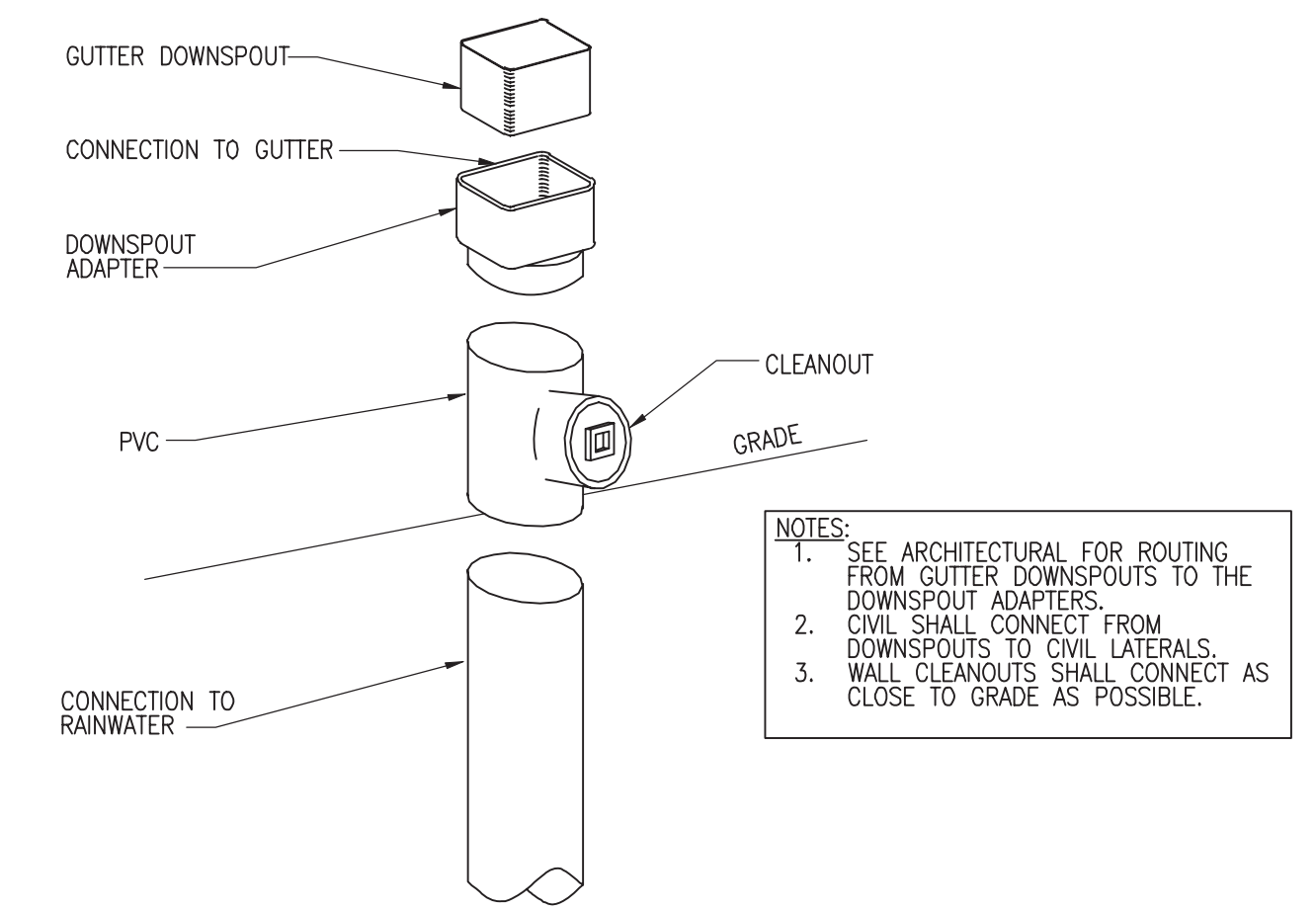


OVER BORED HOLES ARE NOT A SUBSTITUTION FOR EXPANSION FITTINGS. SEE EXPANSION FITTING DETAIL. REFER TO STRUCTURAL DETAILS FOR OVER BORED WALL PENETRATIONS.

1 PIPE WALL STUD PENETRATION DETAIL
NO SCALE

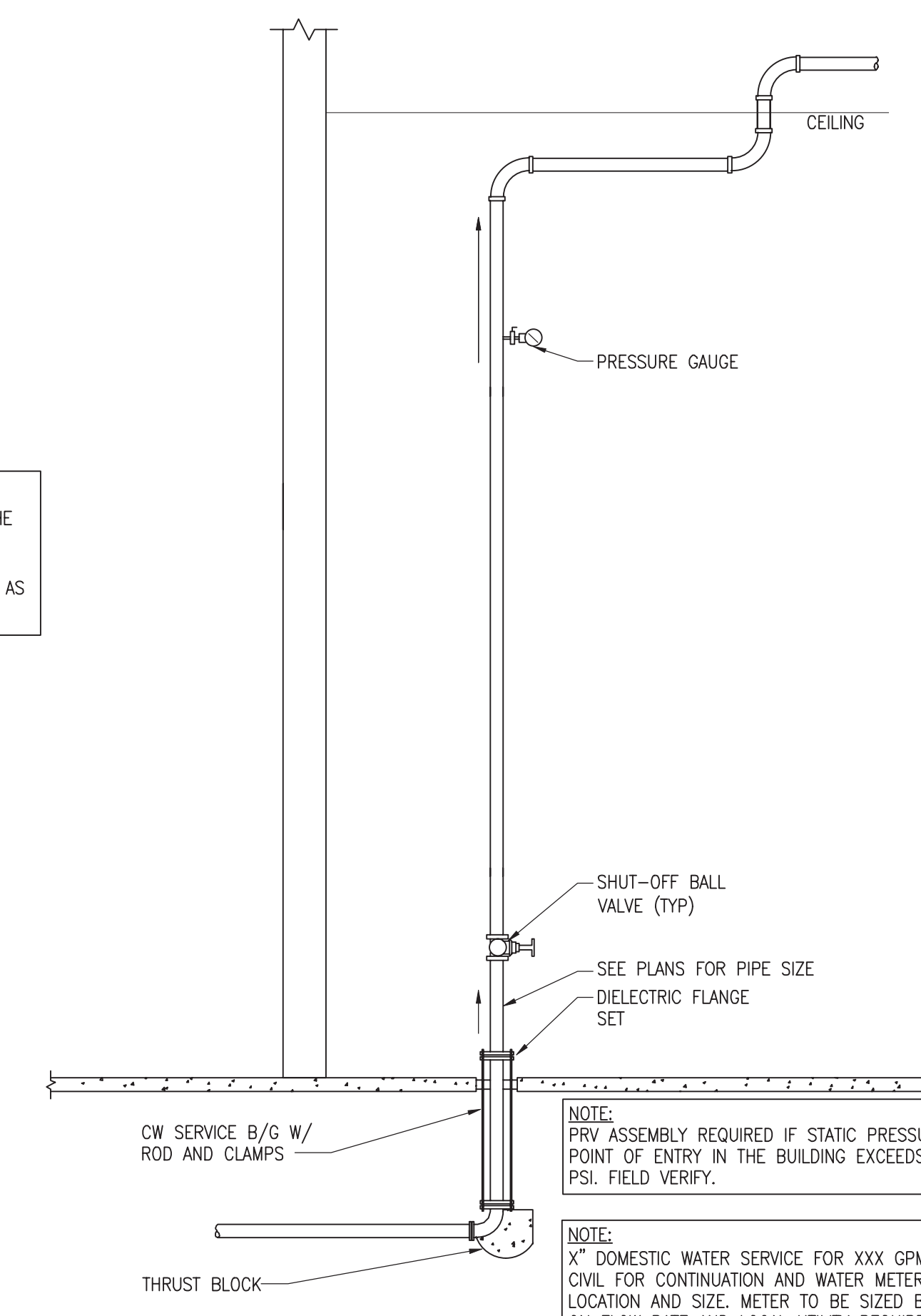


2 FLOOR DRAIN DETAIL
NO SCALE



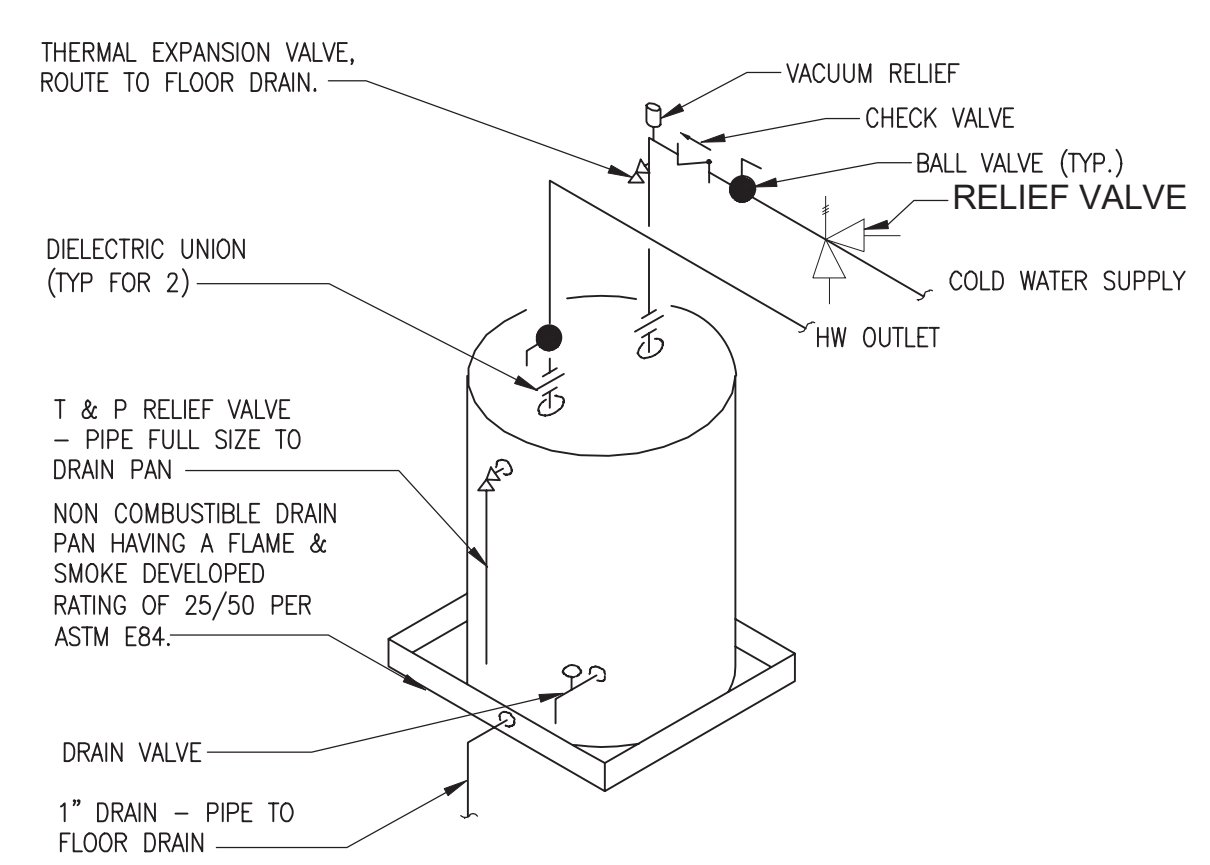
NOTES:
1. SEE ARCHITECTURAL FOR ROUTING FROM GUTTER DOWNSPOUTS TO THE DOWNSPOUT ADAPTERS.
2. CIVIL SHALL CONNECT FROM DOWNSPOUTS TO CIVIL LATERALS.
3. WALL CLEANOUTS SHALL CONNECT AS CLOSE TO GRADE AS POSSIBLE.

3 DOWNSPOUT ADAPTER DETAIL
NO SCALE



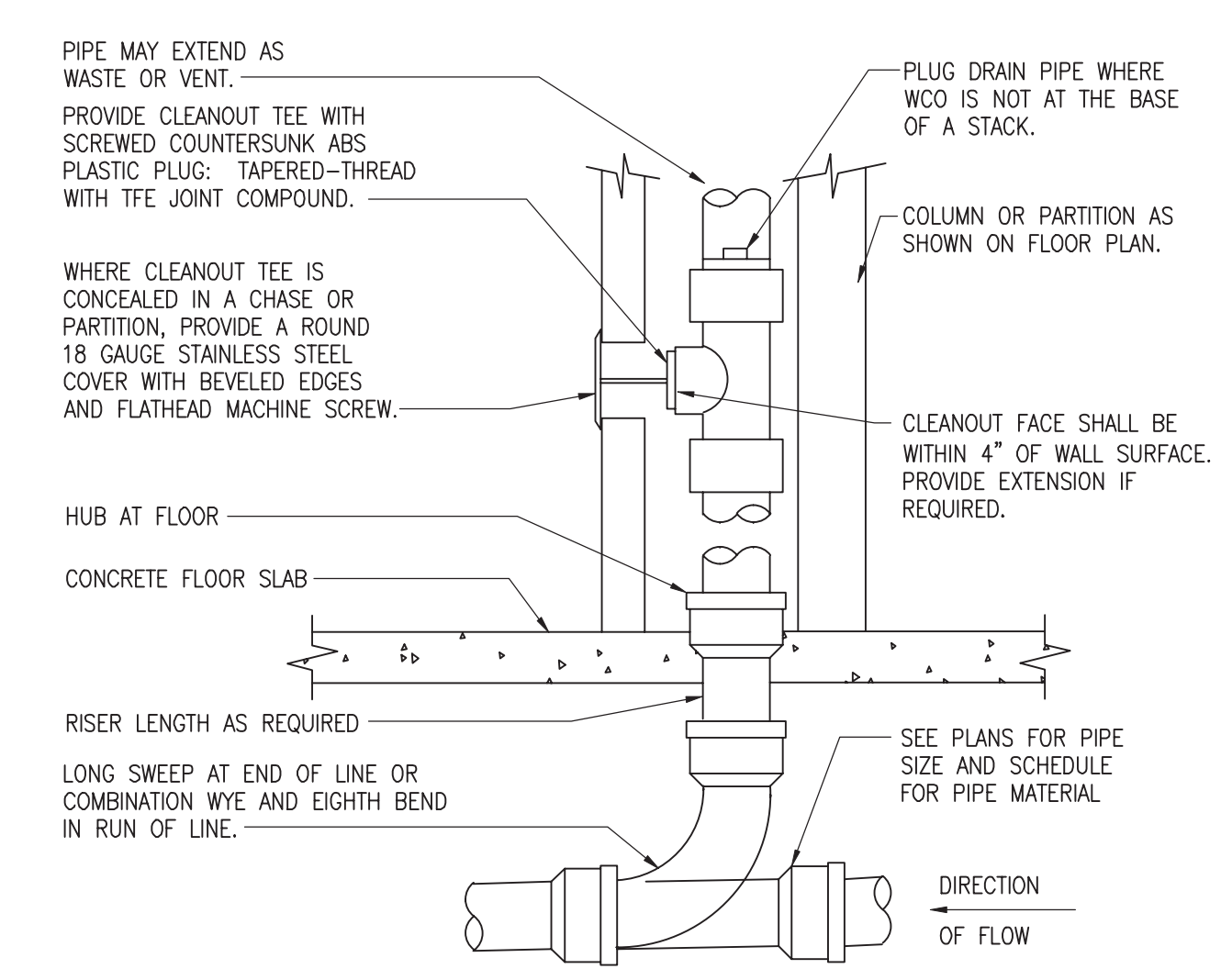
NOTE: PRIV ASSEMBLY REQUIRED IF STATIC PRESSURE AT POINT OF ENTRY IN THE BUILDING EXCEEDS 80 PSI. FIELD VERIFY.
NOTE: X" DOMESTIC WATER SERVICE FOR XXX GPM. SEE CIVIL FOR CONTINUATION AND WATER METER LOCATION AND SIZE. METER TO BE SIZED BASED ON FLOW RATE AND LOCAL UTILITY REQUIREMENTS AND SHALL NOT BE SIZED SIMPLY BY MATCHING PIPE SIZE.

4 DOMESTIC WATER SERVICE ENTRY
NO SCALE



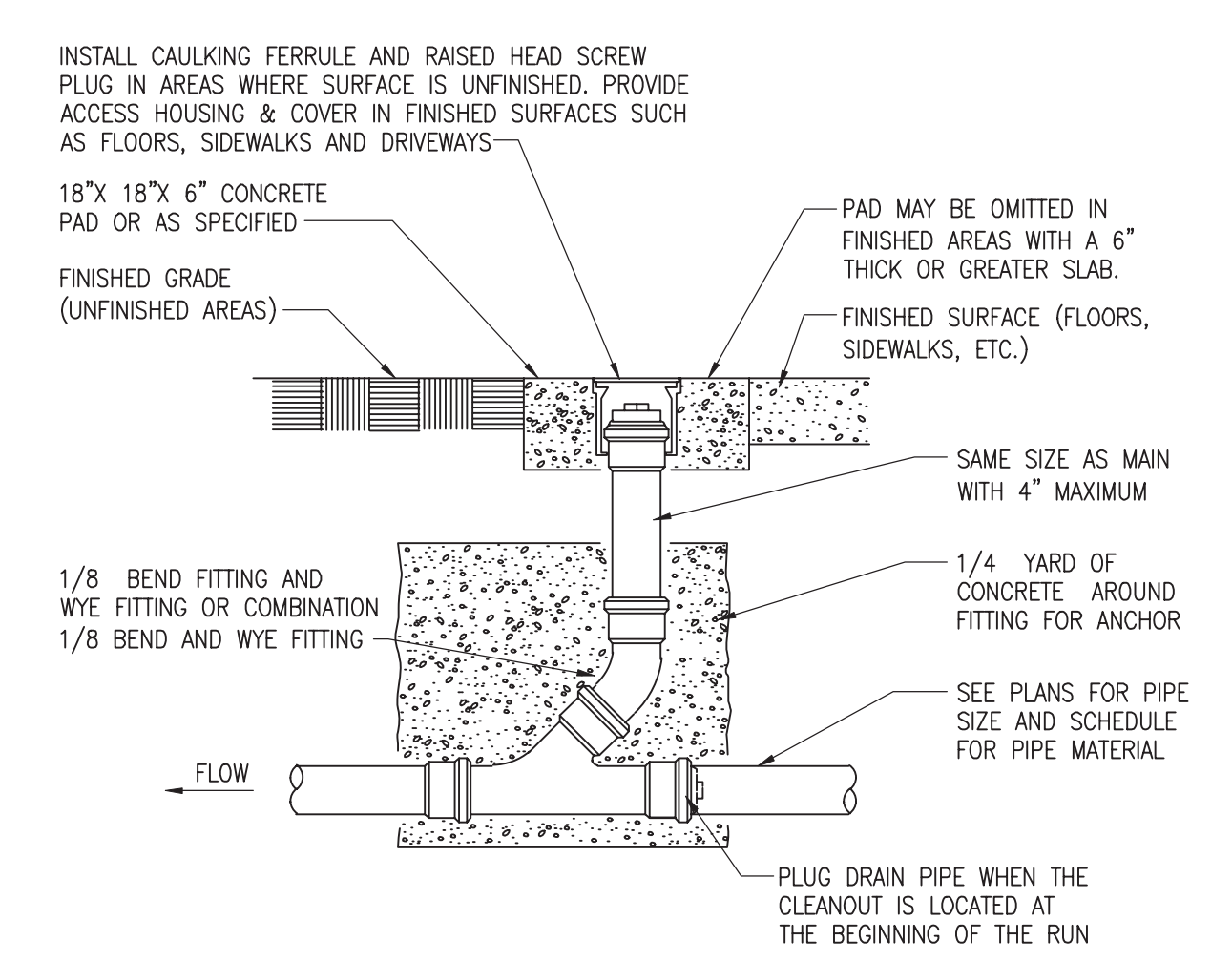
NOTES:
1. COORDINATE PIPING WITH MECHANICAL UNIT ABOVE. PIPING AND WATER HEATER CANNOT BE GREATER THAN 42" AFF.
2. DRAIN PAN AND ALL PRODUCTS IN THE APARTMENT MECHANICAL CLOSETS SHALL BE NON-COMBUSTIBLE AND MEET THE 25/50 FLAME/SMOKE DEVELOPED RATING PER ASTM E-84.
3. PVC PIPE IS NOT ALLOWED IN THE MECHANICAL CLOSETS.
4. WATER HEATER SHALL BE INSTALLED TO BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPLACEMENT.
5. SEE HVAC DRAWINGS FOR PLACEMENT OF WH IN RELATION TO FCU.
6. HEAT TRAPS OR HEAT TRAP NIPPLES ARE REQUIRED ON ALL WATER HEATERS.
7. THE FIRST 6 FEET OF OUTLET PIPING SHALL BE INSULATED PER ASHRAE 90.1-2010 SECTION 7.4.3.

5 WATER HEATER DETAIL
NO SCALE

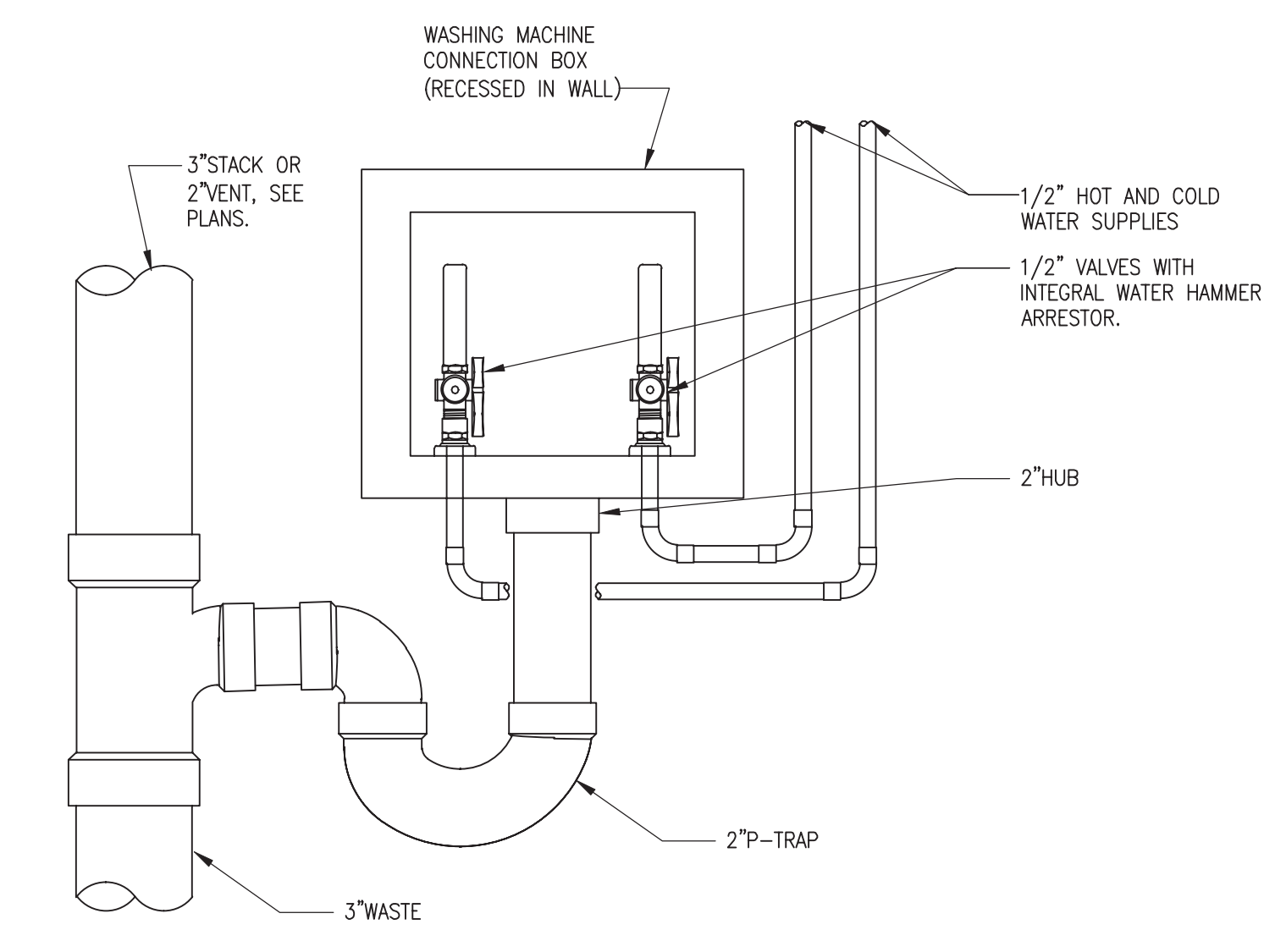


PROVIDE WCO AT BASE OF ALL WASTE STACKS AND RAIN-LEADER DOWNSPOUTS. PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4" OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

6 WALL CLEANOUT DETAIL
NO SCALE



7 FLOOR/GRADE CLEANOUT DETAIL
NO SCALE



8 WASHING MACHINE BOX DETAIL
NO SCALE

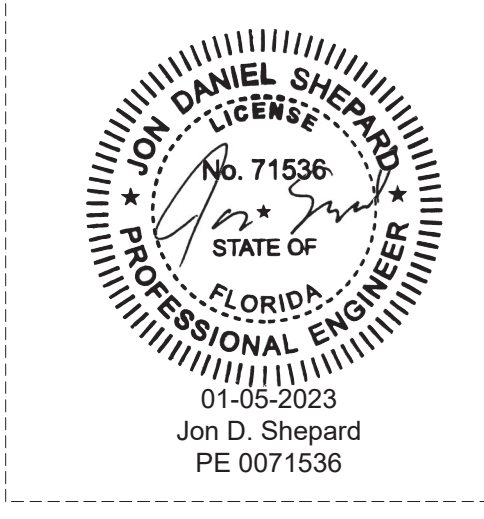
PROVIDE FIRE RATED WMB WHEN INSTALLED ON A FIRE RATED WALL. SEE ARCHITECTURAL WALL TYPES.

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SR-82

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FORT MYERS, FL 33905

PROJECT NO:
220035.00

PLUMBING DETAILS

SHEET NUMBER:
AP5.00

E

D

C

B

A

THIS LINE SHOWS ABOVE OR BELOW THE PLUMBING SYSTEMS

PLUMBING GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED. THE ARCHITECTURAL DRAWINGS AND DETAILS SHALL BE EXAMINED FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. SYSTEMS SHALL INCLUDE ALL APPURTENANCES AS REQUIRED TO ACHIEVE THE OPERATING CONDITIONS AS SHOWN AND SPECIFIED AND SHALL RESULT IN A SUPERIOR INSTALLATION. INFORMATION CONTAINED ON THE DRAWINGS BUT NOT IN THE SPECIFICATIONS OR IN THE SPECIFICATIONS BUT NOT ON THE DRAWINGS ARE INTENDED TO BE IN BOTH. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER OPERATION AND CONSISTENT WITH GOOD WORKMANSHIP WILL BE INCLUDED IN THE ESTIMATE, THE SAME AS IF SHOWN ON THE DRAWINGS. ANY CONFLICT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE PLUMBING CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIAL, LABOR, ETC. NECESSARY TO PROVIDE A COMPLETE, WORKABLE AND CODE APPROVED PLUMBING SYSTEM. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, LOCAL, STATE AND NATIONAL CODES.
- THE PLUMBING CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT FEES, SALES TAXES AND OTHER COSTS IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK; AND DELIVER TO THE ARCHITECT THE SAME CERTIFICATES BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
- ALL WORK SHALL BE GUARANTEED, BOTH MATERIAL AND INSTALLATION, FOR A PERIOD OF ONE YEAR FROM ACCEPTANCE BY OWNER.
- FURNISH SIX (6) COPIES OF SHOP DRAWINGS OF EQUIPMENT OR FIXTURES FOR APPROVAL PRIOR TO PURCHASING.
- CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY ACAD QUALITY AS-BUILT DRAWINGS SHOWING ANY DEVIATION FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSIONS OF BURIED UTILITY LINES FROM BUILDING WALLS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR PIPE ROUTING AND INSTALLATION OF EQUIPMENT AND SYSTEMS TO PROVIDE FOR REQUIRED CLEARANCES.
- ALL OPENINGS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SEALED WITH A U.L. LISTED PENETRATION AND SHALL MAINTAIN THE FIRE RATED INTEGRITY OF THE WALL OR FLOOR. THE CONTRACTOR SHALL VERIFY FIRE RATINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
- PIPE PASSING THROUGH PIT WALLS, BUILDING WALLS, AND BUILDING FLOORS BELOW GRADE SHALL BE PROVIDED WITH SLEEVES OF STANDARD WEIGHT GALVANIZED STEEL PIPE. THE ANNULAR SPACES BETWEEN PIPE AND SLEEVES SHALL BE SEALED WITH LINK SEAL HYDROSTATIC PIPE WALL SEAL. SLEEVES SHALL BE SIZED AS FOLLOWS:

3" PIPE - 6" ID SLEEVE
4" PIPE - 8" ID SLEEVE
6" PIPE - 10" ID SLEEVE
8" PIPE - 12" ID SLEEVE
10" PIPE - 12" ID SLEEVE
- BREAKAGE AND CORROSION: PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM BREAKAGE. PIPES PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM LIME AND ACID OF CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION. MINIMUM WALL THICKNESS OF MATERIAL IS TO BE 0.025 INCH.
- PROVIDE WALL CARRIERS FOR ALL WALL HUNG PLUMBING FIXTURES. ALL WALL HUNG PLUMBING FIXTURES SHALL BE CAPABLE OF SUPPORTING A 250 POUND VERTICAL LOAD.
- THE PLUMBING CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCING WITH THE WORK.
- CONTRACTOR SHALL EXTEND AS NECESSARY AND CONNECT BUILDING DRAIN AND POTABLE WATER LINES TO EXISTING SERVICE LINES AT LOCATION ON SITE OR IN BUILDING AS REQUIRED. VERIFY EXACT LOCATION AND INVERT ELEVATION OF SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF THE DISTANCE TO SITE SERVICES EXCEED TEN (10) LINEAR FEET FROM THE BUILDING.
- OFFER REMOVED MATERIAL TO THE OWNER. REMOVE ALL MATERIAL REJECTED BY THE OWNER FROM THE WORK SITE AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND NATIONAL CODES. CONTRACTOR MUST CERTIFY TO OWNER THAT THE MATERIAL HAS BEEN LEGALLY DISPOSED OF.

POTABLE WATER PIPING:

- BELOW GROUND WATER PIPING SHALL BE TYPE "K" COPPER WITH VINYL SLEEVE FOR CORROSION PROTECTION WITH WROUGHT COPPER FITTINGS AND 95-5 SOLDERED JOINTS.
- ABOVE GROUND WATER PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS AND 95-5 SOLDERED JOINTS.
- INTERIOR ABOVE AND BELOW GROUND WATER PIPING SHALL BE (CPVC) CHLORINATE POLYVINYL CHLORIDE PLASTIC PIPE AND TUBING (ASTM D-2846) FLOWGUARD OR EQUIVALENT WITH APPROVED CPVC SOLVENT WELDED FITTINGS. CPVC WATER PIPING SHALL NOT BE RUN IN RETURN AIR PLENUM OR FIRE RATED ASSEMBLIES UNLESS ALLOWED BY LOCAL JURISDICTION.
- INTERIOR ABOVE AND BELOW GROUND WATER PIPING SHALL BE CROSSLINKED POLYETHYLENE (PEX-a) STRAIGHT, COILED AND EXPANSION LOOPED PIPE AND TUBING (ASTM F876 AND F877) UPONOR AQUAPEX WHITE OR EQUIVALENT WITH COLD-EXPANSION FITTINGS (ASTM F877 AND F1960). LEAD FREE DEZINCIFICATION RESISTANT BRASS COUPLINGS, FITTINGS AND VALVES (ASTM F877 AND F1960) FOR ABOVE AND UNDERGROUND INSTALLATIONS AND/OR ENGINEERED POLYMER (ASTM F877 AND F1960) FOR ABOVE GROUND INSTALLATIONS. PEX-a WATER PIPING SHALL NOT BE RUN IN RETURN AIR PLENUM UNLESS INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS FOR RETURN AIR PLENUM INSTALLATION AND APPROVED BY LOCAL JURISDICTION. PEX MANUFACTURE SHALL PROVIDE SHOP DRAWINGS INDICATING THE SYSTEM(S) HAVE BEEN ANALYZED FOR USE OF PEX PIPING FOR THIS APPLICATION.
- EXTERIOR BUILDING SERVICE SHALL BE SCHEDULE 40 PVC (ASTM D-1785) WITH APPROVED PVC SOLVENT WELDED FITTINGS.
- INTERIOR ABOVE AND BELOW GRADE HIGH TEMPERATURE HOT WATER (140°F OR GREATER) PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBE WITH COPPER FITTINGS AND 95-5 SOLDERED JOINTS.
- THE SITE SUBCONTRACTOR SHALL PROVIDE THE BACKFLOW PREVENTOR AND THE WATER METER.
- A SERVICE VALVE SHALL BE PROVIDED ON THE DOMESTIC WATER RISER AT 5'-0" ABOVE FINISHED FLOOR, WHERE WATER ENTERS THE BUILDING.
- PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER LINES ON ALL QUICK CLOSING DEVICES PER CHAPTER 6 OF FLORIDA BUILDING CODE PLUMBING.
- PROVIDE VACUUM BREAKERS AS REQUIRED BY CODE.
- TEST ALL WATER PIPING AT 100 PSIG FOR TWENTY-FOUR (24) HOURS OR AS REQUIRED BY CODE.
- STERILIZE ALL WATER PIPING IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS AND AMERICAN WATER WORKS SPECIFICATIONS.
- SUPPORT ALL WATER PIPING WITH PIPE HANGERS BY GRINELL OR EQUAL.
- PROVIDE RISER CLAMPS AT EACH FLOOR FOR ALL VERTICAL PIPING INCLUDING SANITARY DRAINS, VENTS, AND WATER LINES. INSTALL RISERS SO AS TO ALLOW VERTICAL MOVEMENT OF PIPING, ANCHORING PIPES AT THE BASE OF ALL RISERS.
- PROVIDE ACCESS DOORS WHERE NECESSARY TO SERVICE SEALS, VALVES, TRAPS, CLEAN-OUTS, AIR CHAMBERS/WATER HAMMER ARRESTORS, ETC. ALL ACCESS DOORS IN TOILET ROOMS SHALL BE STAINLESS STEEL.

MISCELLANEOUS

- PROVIDE AND INSTALL SHUT OFF VALVES AND SECTIONAL VALVES AS REQUIRED BY APPLICABLE FLORIDA BUILDING CODES AND PLUMBING SPECIFICATION SECTIONS.
- PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS, AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF PIPE TO AVOID OBSTRUCTIONS. COORDINATION WITH UTILITY SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED. MAINTAIN HEADROOM AND SPACE LOCATIONS.
- INSTALL WORK AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- ALL MATERIALS AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS. ALL MATERIALS AND EQUIPMENT ON SITE SHALL BE PROPERLY STORED SUCH THAT IT IS PROTECTED FROM DAMAGE AND EXPOSURE.
- THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, HAS FURNISHED ALL THE REQUIRED CERTIFICATIONS OF INSPECTION AND APPROVAL, AND SUBMITTED ALL THE NECESSARY CLOSE-OUT DOCUMENTS.
- UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE GENERAL CONTRACTOR, PLUMBING CONTRACTOR, ARCHITECT, AND ENGINEER. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.
- ALL VALVES AND SPECIALTY ITEMS MAY NOT BE SHOWN IN EVERY INSTANCE ON THE DRAWINGS, BUT ARE TO BE PROVIDED WHETHER SHOWN OR NOT WHEN NECESSARY FOR PROPER OPERATION AND MAINTENANCE OF THE SYSTEM.

REFER TO SPECIFICATIONS FOR APPROVED VALVE MANUFACTURERS.

- CONCEAL ALL PIPING IN BUILDING CONSTRUCTION OR UNDERGROUND. INSTALL SUCH PIPING IN TIME SO AS NOT TO CAUSE DELAY TO WORK OF OTHER TRADES AND TO ALLOW AMPLE TIME FOR TESTS AND APPROVAL; DO NOT COVER BEFORE APPROVAL IS OBTAINED.
- KEEP FIXTURE BRANCHES CONCEALED TO POINTS ABOVE FLOOR CLOSE TO FIXTURES; EXPOSE ONLY AS MUCH AS NECESSARY FOR FINAL CONNECTIONS.
- WHERE FURRED SPACES ARE INDICATED, KEEP PIPES AS CLOSE TO STRUCTURAL MEMBERS AS POSSIBLE SO AS TO REQUIRE MINIMUM FURRING.

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CONNECTIONS

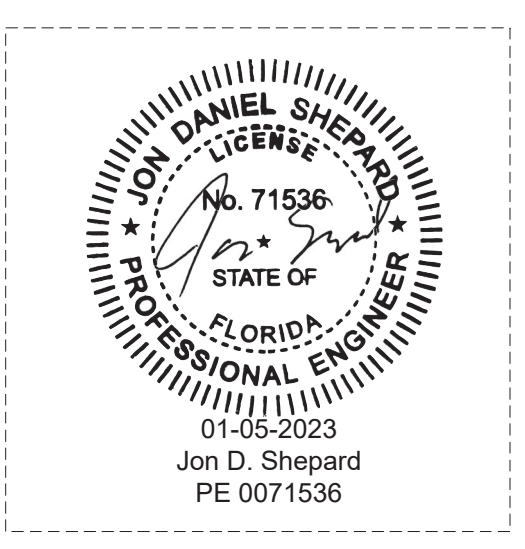
1850 Northgate Blvd.
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State of Authorization# CS131201

Mechanical Electrical Plumbing Fire Protection

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NOT FOR CONSTRUCTION



MILHAUS

SR-82

7780 LIGHTARD KNOTT LN
FORT MYERS, FL 33905

PROJECT NO:
220035.00

PLUMBING NOTES

SHEET NUMBER:
AP6.00

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PLUMBING NOTES
1. PROVIDE SLEEVE OR RELIEF ARCH FOR PIPING PASSING THROUGH OR BELOW THE BUILDING.



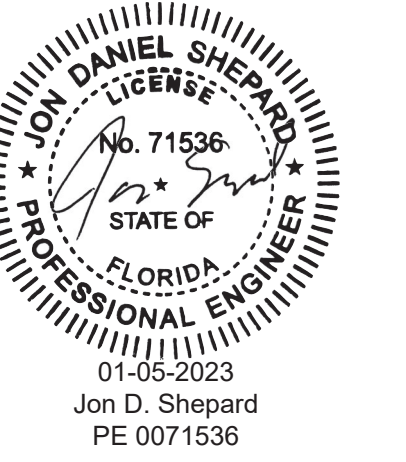
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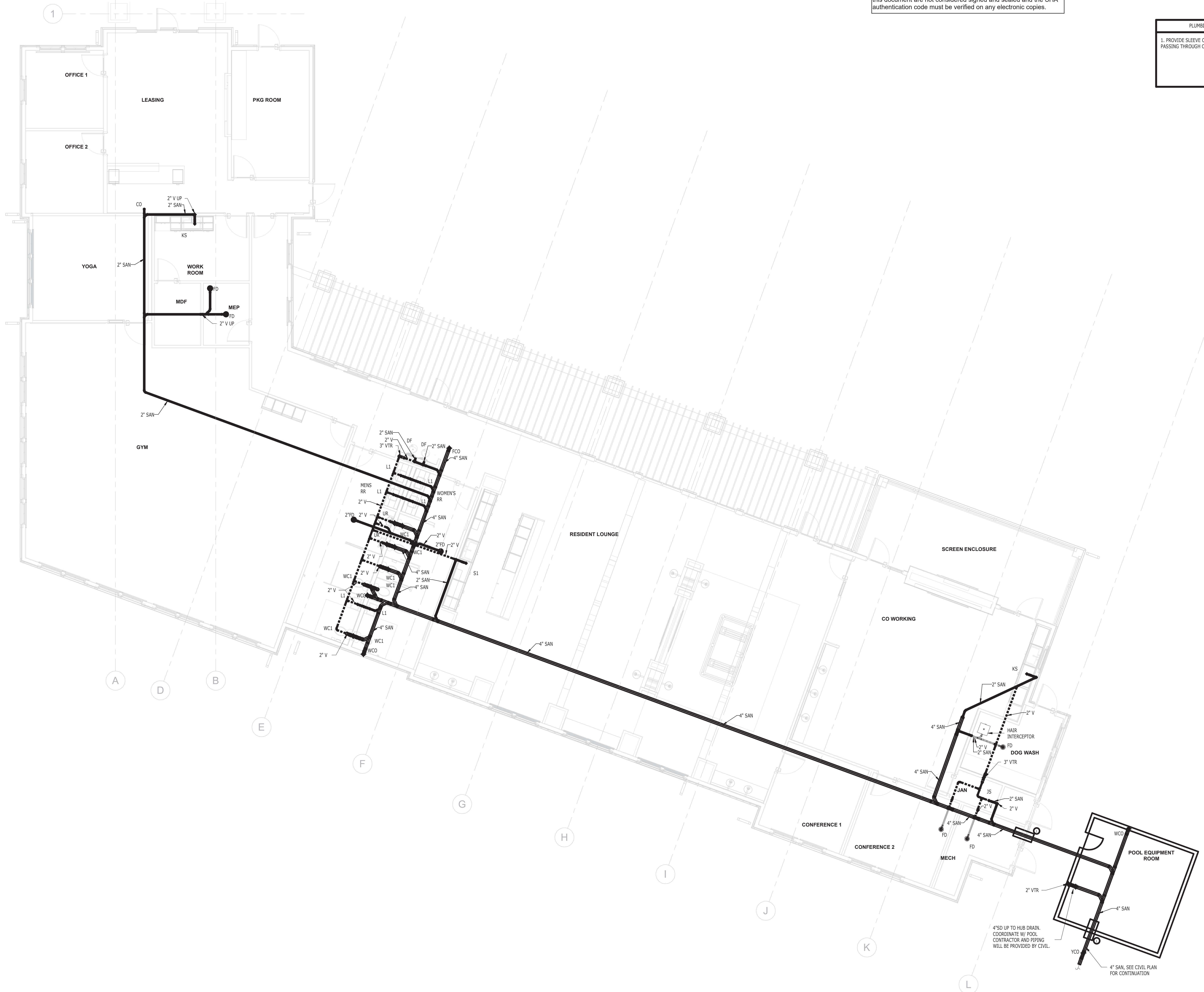
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PROJECT NO:
220035.00

SANITARY PLAN -
AMENITY CENTER

SHEET NUMBER:
CP1.00

1 SANITARY PLAN - AMENITY CENTER
3/16" = 1'-0"



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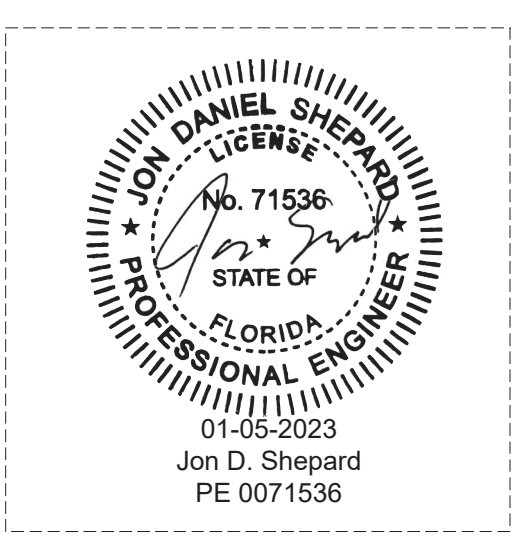
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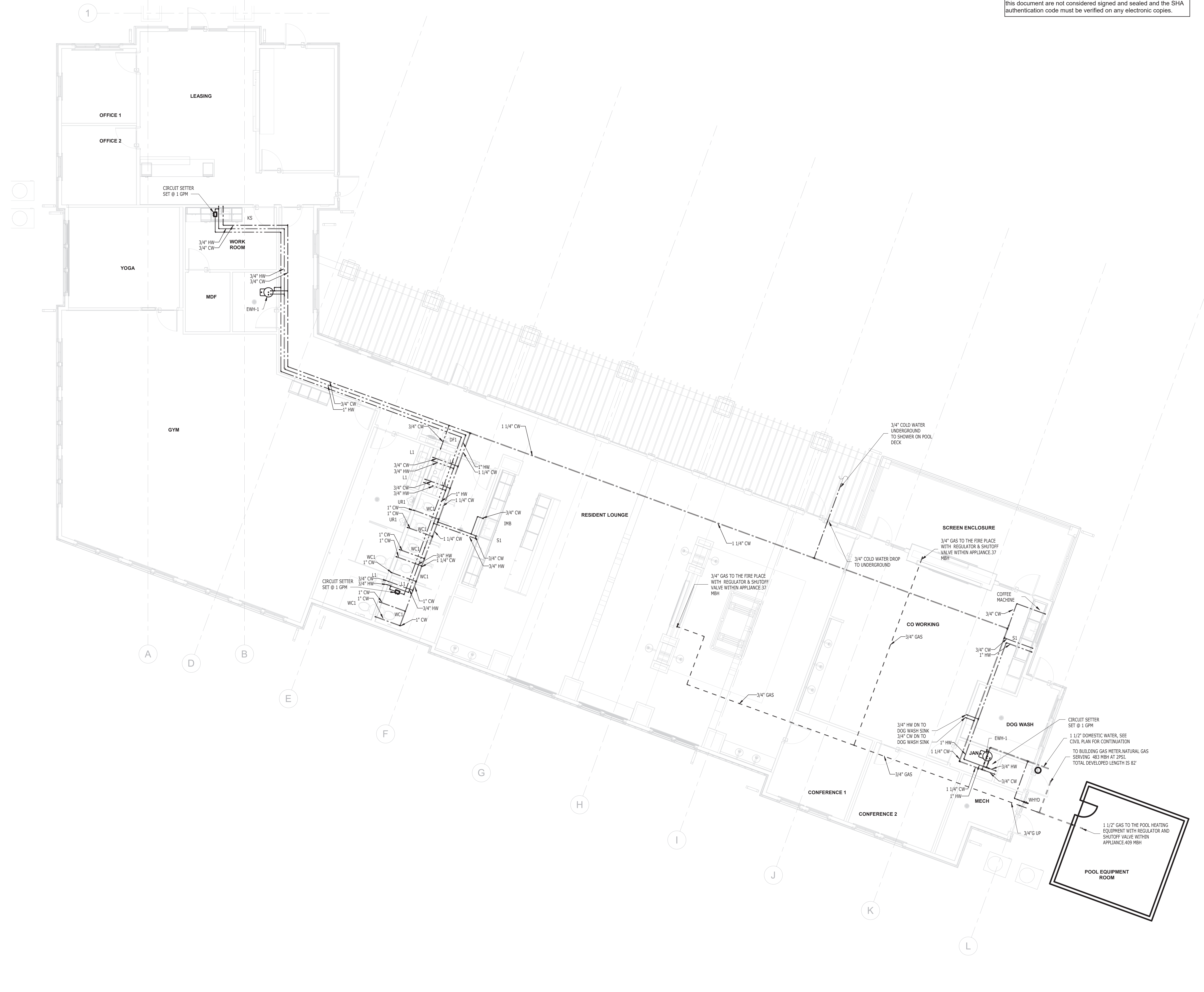
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DOMESTIC WATER PLAN-AMENITY CENTER

SHEET NUMBER:
CP.20



1 DOMESTIC WATER PLAN - AMENITY CENTER
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PLUMBING LEGENDS		
FIXTURE	DFU	NOTE
WC1	4	①
L1	2	②
UR	2	③
S1	2	④
FD	2	⑤
JS	2	⑥
DF	1/2	⑦
HAIR INTERCEPTOR	3	⑧

PLUMBING LEGENDS			
FIXTURE	CWSFU	HWSFU	NOTE
WC1	5	-	⑨
L1	1.5	1.5	⑩
UR1	3	-	⑪
S1	1	1	⑫
JS	3	3	⑬
DOG WASH SINK	2	2	⑭
COFFEE MACHINE	1	-	⑮

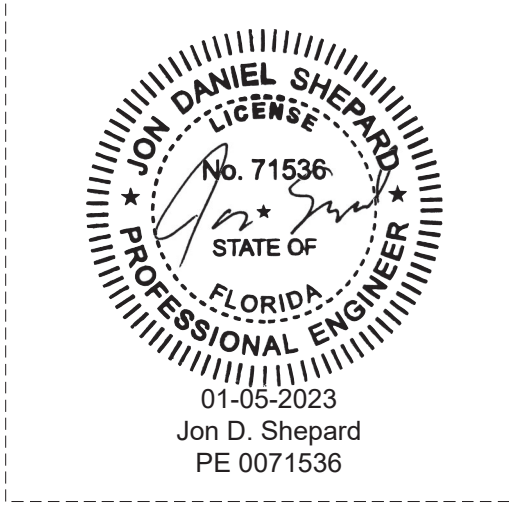
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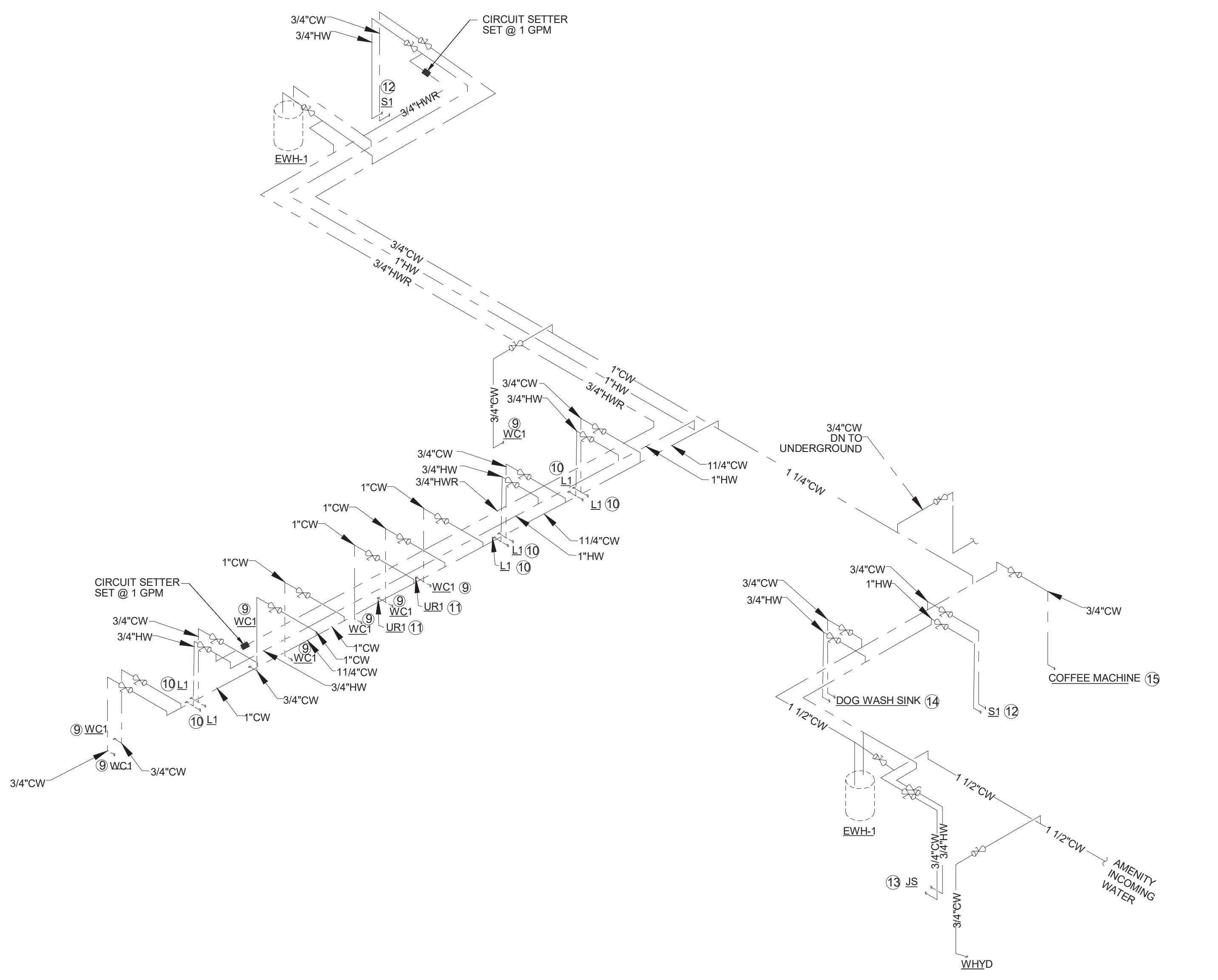
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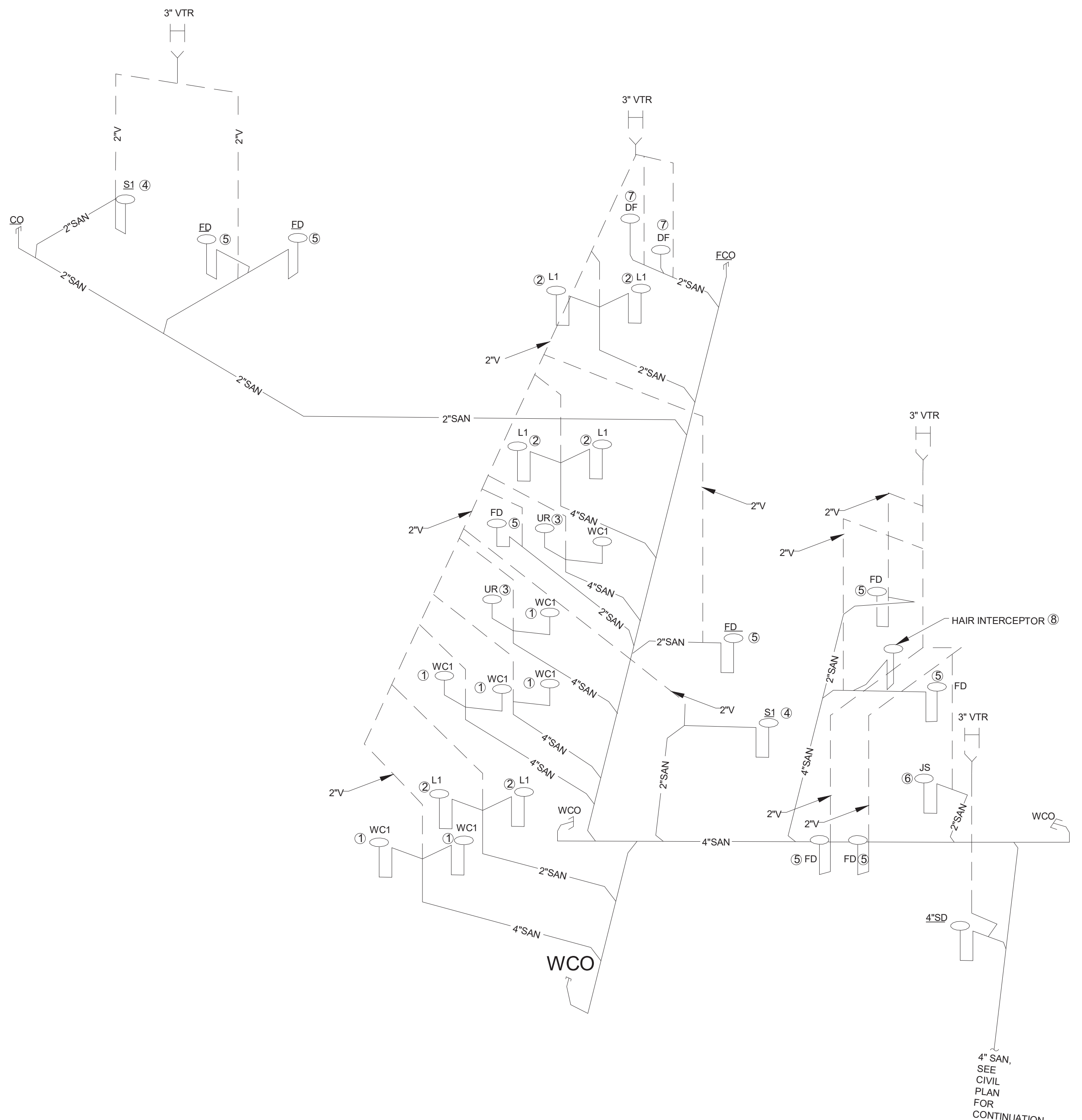
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PLUMBING RISERS

SHEET NUMBER:
CP3.00



1 WATER RISERS
N.T.S.



1 SANITARY RISERS
N.T.S.

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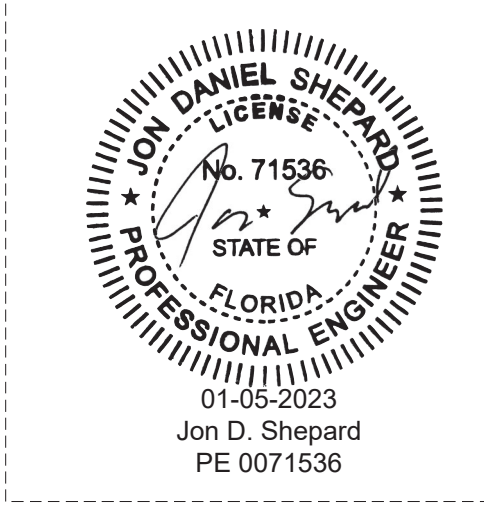
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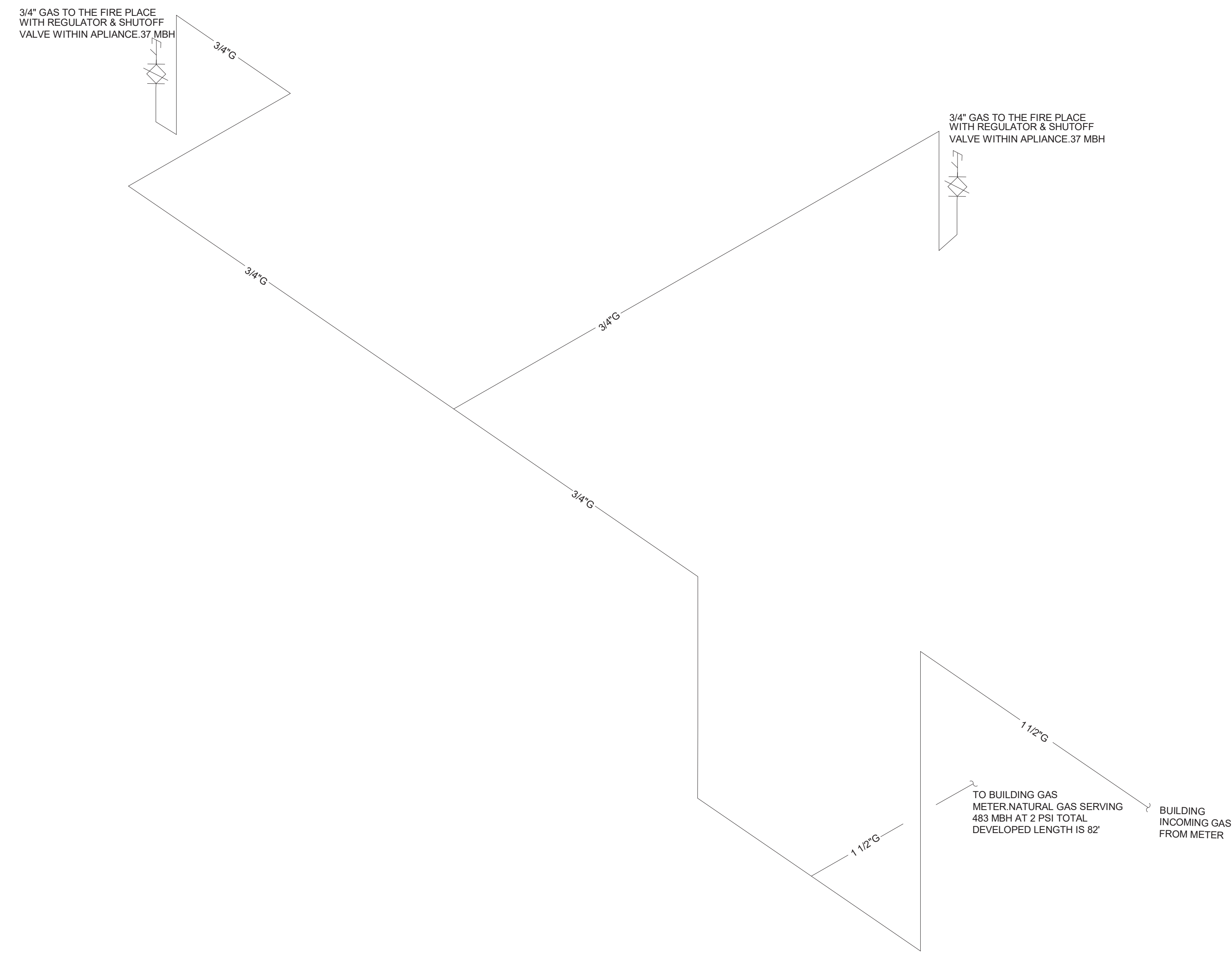
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FORT MYERS, FL 33905
PROJECT NO:
220035.00
**PLUMBING GAS
RISER**
SHEET NUMBER:
CP3.01



1 GAS RISERS
N.T.S

1 2 3 4 5

1 2 3 4 5 6

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PLUMBING FIXTURE SCHEDULE AMENITIES

FIXTURE TYPE

TAG	QUANTITY	DESCRIPTION	TYPE	VALVE	FAUCET	MATERIAL	REMARKS	WASTE			VENT (INCHES)	DOMESTIC SUPPLY		COLD WATER	HOT WATER	TOTAL SUPPLY	SANITARY
								TRAP	DIRECT	INDIRECT		COLD	HOT				
<u>WC1</u>	7	AMERICAN STANDARD MODEL #2467.016, "CADET" RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED	TANK, PRESSURE ASSIST	-	VITREOUS CHINA	VITREOUS CHINA	Fixture performance and specifications meet or exceed ASME A112.19.2-2008/CSA B45.1-08 standards, and other state and local codes.	3"	3"	-	2"	1"	-	5	0	35	28
<u>L1</u>	6	LAVATORY	American Standard Lucerne 0355012PL020-1/2" Wall Mounted Porcelain Bathroom Sink	-	Manual Sink Faucets 802-317XKAB CP	VITREOUS CHINA	UNIT TO BE PROVIDED WITH LAVATORY CARRIER ASSEMBLY, OFF-SET GRID STRAINER ASSEMBLY WITH CHROME TAILPIECE AND CHROME P-TRAP ASSEMBLY, LOOSE KEY STOPS, ESCUTHEONS, ETC. UNIT TO BE PROVIDED WITH "TRUEBRO" VINYL PIPE INSULATION KIT.	1-1/2"	1-1/2"	-	2"	3/4"	3/4"	1.5	1.5	12	12
<u>JS1</u>	1	MOP SINK	MSB2424 - 24" X 24" Molded Stone Mop Service Basin	-	Service-Sink Faucet Model: 830-AA	STAINLESS STEEL	Tiling flanges are optional, made of stainless steel, and extend 1" above the shoulder on 1, 2, or 3 sides, as required.	3"	3"	-	2"	3/4"	3/4"	3	3	2.25	3
<u>UR</u>	2	URINAL	FLUSH VALVE	ZURN Z6203-EWS-YB	-	VITREOUS CHINA	Operates in the Range of 0.125 GPF to 1.0 GPF (gallons per flush), Meets ANSI Flush Requirements	2"	2"	-	2"	1"	-	3	-	6	4
<u>IMB</u>	1	ICE MAKER REFRIG.	WATTS #LF7RU2-2	-	-	NO-LEAD BRASS	NSF-372 compliant, IAPMO listed box and valve, ASSE 1010 arrester* Valve meets ASME A112.18.1	-	-	-	-	3/4"	-	1	15	1	-
<u>DF1</u>	1	DRINKING FOUNTAIN	-	-	-	-	-	2"	2"	-	2"	3/4"	3/4"	0.25	-	0.25	0.5
<u>FD</u>	5	FLOOR DRAIN	Z505 HEAVY DUTY DRAIN	-	-	CAST IRON	floor drains with ASSE 1072 certified barrier-type trap seal protection devices in lieu of trap primers.	3"	3"	-	-	-	-	-	-	-	-
<u>S1</u>	3	KITCHEN SINK	ELUH2861	-	3159-DST	STAINLESS STEEL	ASME A112.19.3/CSA B45.4	1-1/2"	1-1/2"	-	1-1/2"	3/4"	3/4"	1	1	4.2	6
COFFEE MACHINE	2	COFFEE MACHINE	-	-	-	-	-	-	-	-	-	3/4"	-	1	-	2	-
DOG WASH	1	DOG WASH	-	-	-	STAINLESS STEEL	SL-742-L requires 17"(432) clearance above cover to remove sediment basket	-	-	-	-	3/4"	3/4"	2	2	4	3
RCP-1	1	RECIRCULATION PUMP	-	-	-	-	PUMP SHALL BE CAPABLE OF 2.5 GPM AT 9 FEET OF HEAD MINIMUM. 115 VOLTS, 60 Hz, SINGLE PHASE 0.52 AMPS, 3,250 RFM AND 1/40 HORSEPOWER. SET FLOW TO 2.5 GFM MINIMUM. PROVIDE WITH AQUASTAT AND CONNECT SYSTEM TO BUILDING TIME CLOCK, COORDINATE WITH ELECTRICAL CONTRACTOR	-	-	-	-	-	-	3/4"	-	-	-

NOTES:
 INSTALL BACKING AND SUPPORTS AS REQUIRED FOR ALL FIXTURES AND ACCESSORIES.
 ALL FIXTURES SHALL MEET ADA AND LOCAL CODES
 SUPPLY PIPING AND FITTING FOR ALL FIXTURES SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW
 ALL FIXTURES SHALL BE PROVIDED WITH ACCESSIBLE SHUT OFF VALVES AT COLD AND HOT WATER PIPING CONNECTIONS
 PROVIDE INSULATION FOR ALL PIPING IN EXTERIOR WALLS.
 ALL PLUMBING FIXTURES SHALL BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO PURCHASE.
 HOT WATER TO ALL LAVATORIES AND HAND SINKS SHALL NOT EXCEED 110 DEGREES.
 COORDINATE ADA HEIGHT REQUIREMENTS WITH ARCHITECT DRAWINGS.
 ALL HAND SINKS SHALL BE PROVIDED WITH APPROVED AUTOMATIC SAFETY WATER MIXING DEVICE AND PRESSURE BALANCE


24 SUPPLY FIXTURE UNITS FOR SPACE WHICH IS EQUAL TO 40.4 GPM AND REQUIRES NO LESS THAN A 1 1/2" PIPE.

29 DRAINAGE FIXTURE UNITS FOR THE SPACE WHICH REQUIRES NO LESS THAN 6" PIPE.

ELECTRIC WATER HEATER SCHEDULE

EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	UNIT TYPE	CAPACITY (GALLONS)	WEIGHT (LBS.)	DIMENSIONS (INCHES)				ELECTRICAL				NOTES
							DIAMETER	WIDTH	DEPTH	HEIGHT	MCA	MOCP	PHASE	VOLTS	
EW-H-1	SEE PLAN	AO SMITH	ENLB-40	TANK TYPE	38	118									2,3,4

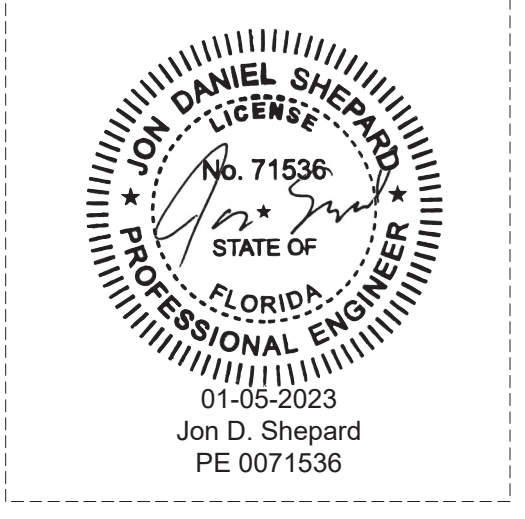
NOTES:
 1. SEE ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. PROVIDE ONE WATER HEATER PER APARTMENT UNIT.
 2. PROVIDE ONE WATER HEATER PER APARTMENT UNIT.
 3. ACCEPTABLE EQUAL MANUFACTURERS ARE A.O. SMITH, BRADFORD WHITE, LOCKNVAR, PVI, RHEEM OR STATE.
 4. IF WATER HEATER IS SUPPLIED WITH AN INSULATION BLANKET TO MEET THE REQUIRED ENERGY FACTOR, THE BLANKET MUST BE PLENUM RATED. NON-PLENUM RATED BLANKETS SUPPLIED BY THE MANUFACTURER MUST BE REPLACED WITH AN INSULATION BLANKET FROM AN INSULATION MANUFACTURER THAT IS PLENUM RATED. PLENUM RATED BLANKETS ARE NOT REQUIRED IF THE WATER HEATER IS NOT IN A PLENUM OR IS NOT LOCATED IN A CLOSET SHARED WITH HVAC EQUIPMENT.


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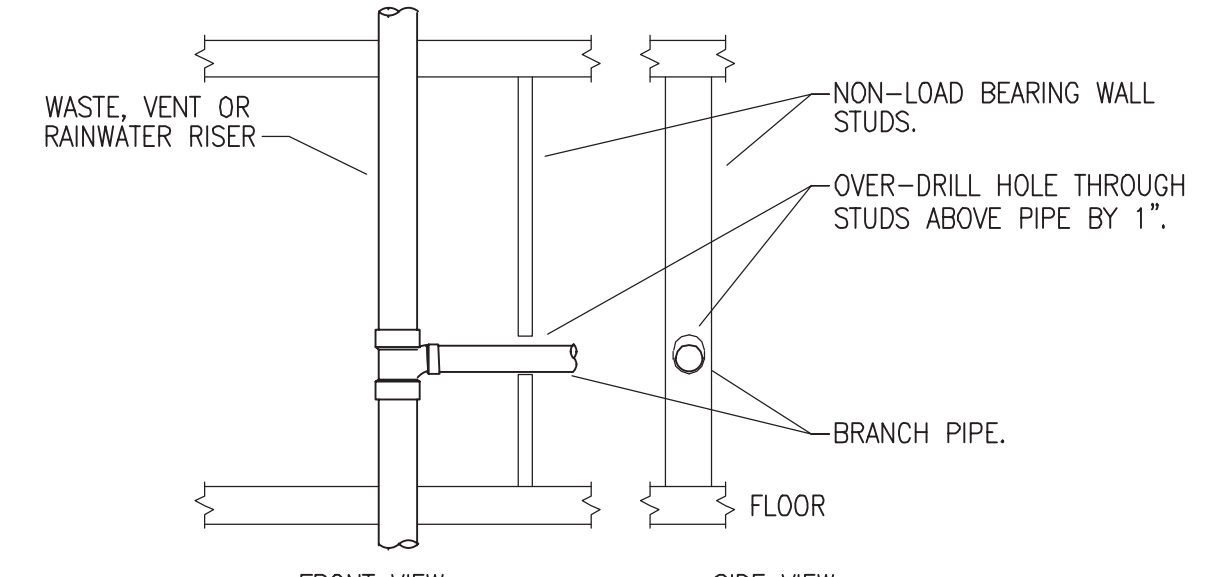
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 FORT MYERS, FL 33905

PROJECT NO:
220035.00

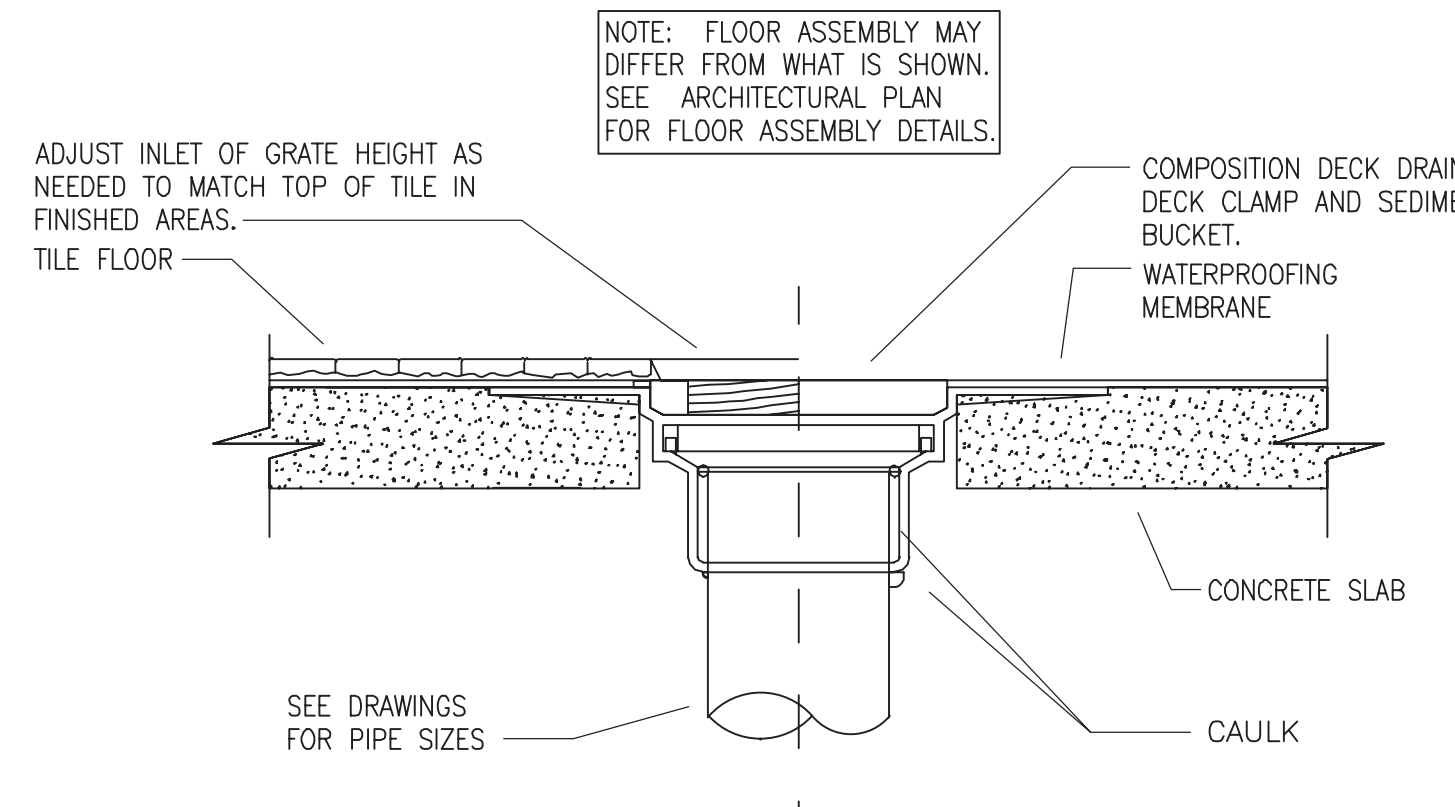
PLUMBING SCHEDULES

SHEET NUMBER:
CP.4.00

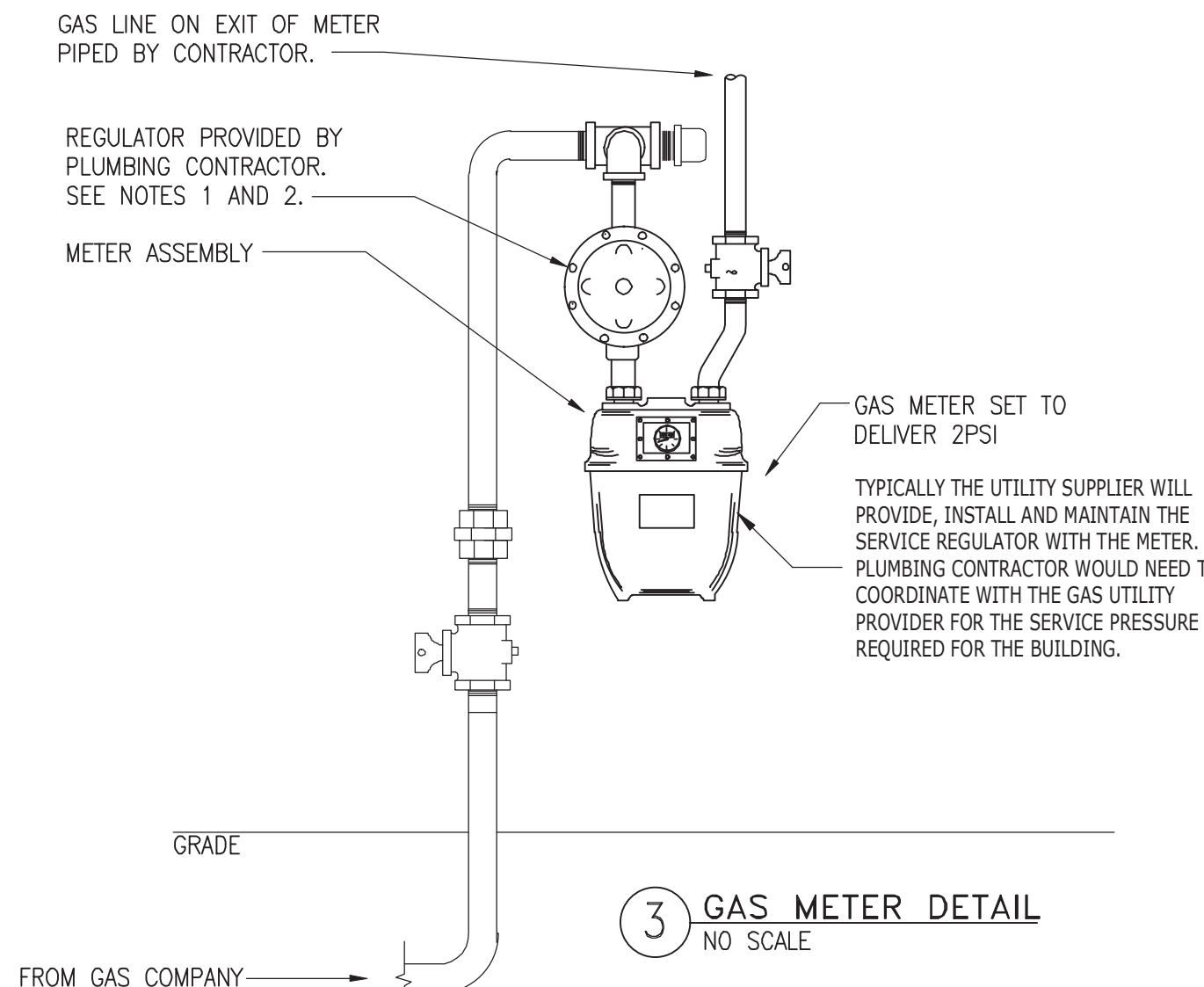


OVER BORED HOLES ARE NOT A SUBSTITUTION FOR EXPANSION FITTINGS. SEE EXPANSION FITTING DETAIL. REFER TO STRUCTURAL DETAILS FOR OVER BORED WALL PENETRATIONS.

1 PIPE WALL STUD PENETRATION DETAIL
NO SCALE

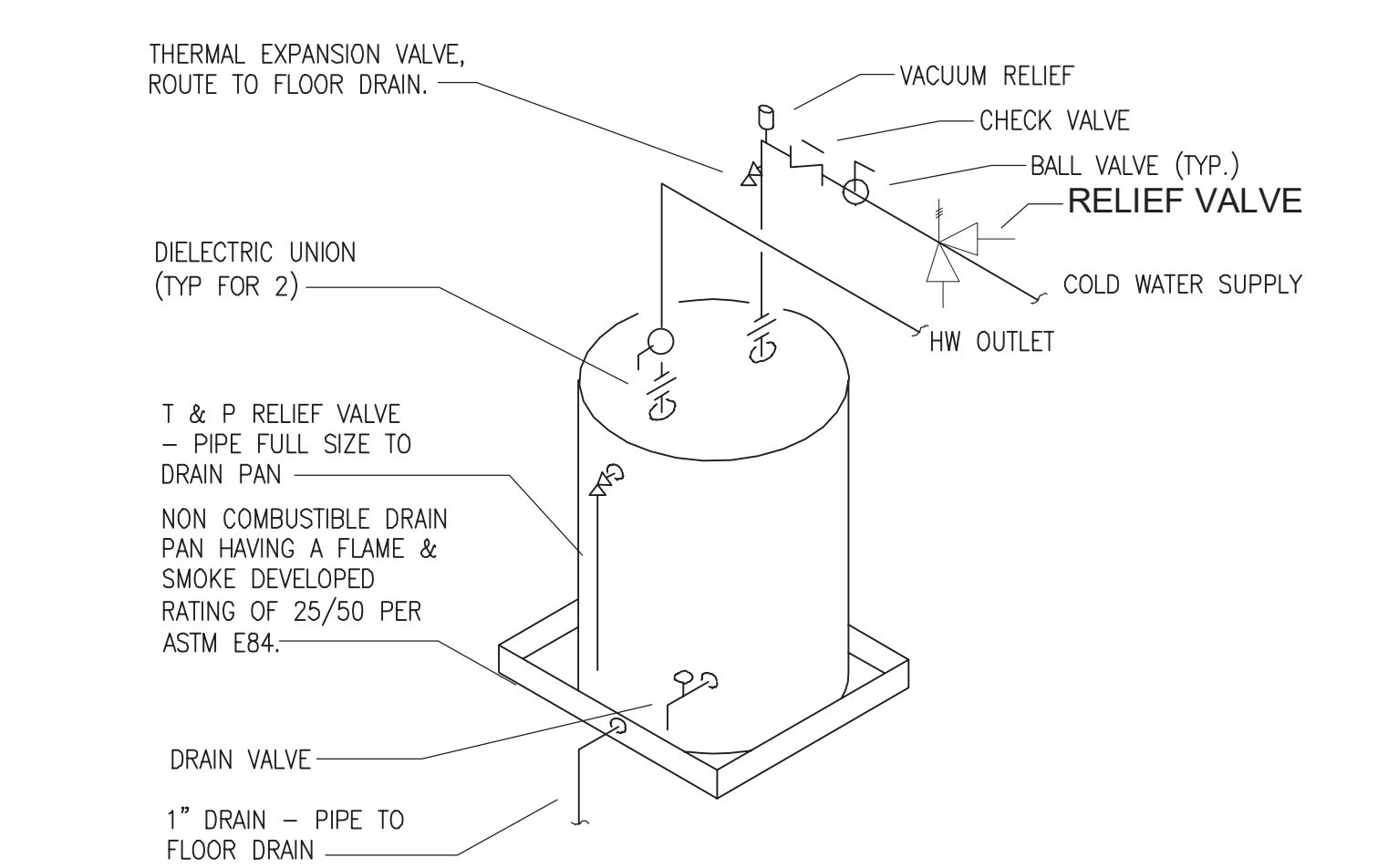


2 FLOOR DRAIN DETAIL
NO SCALE



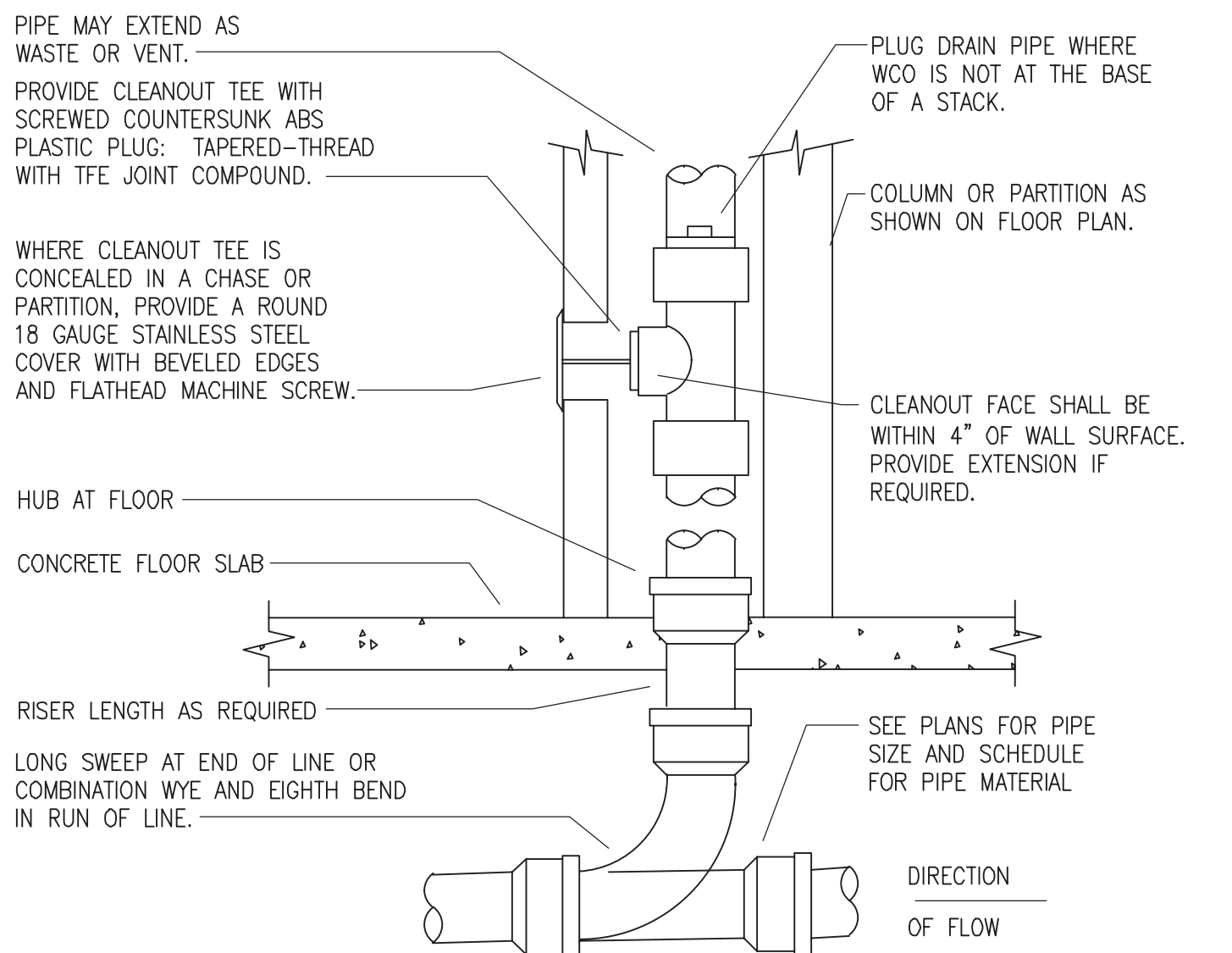
NOTES:
1. REGULATOR & GAS PRESSURE SETTING SHALL BE COORDINATED WITH CONTRACTOR TO MATCH BUILDING/SUITE GAS DEMAND.
2. REGULATOR PROVIDED BY PLUMBING CONTRACTOR SHALL BE ADJUSTABLE (10\"

3 GAS METER DETAIL
NO SCALE



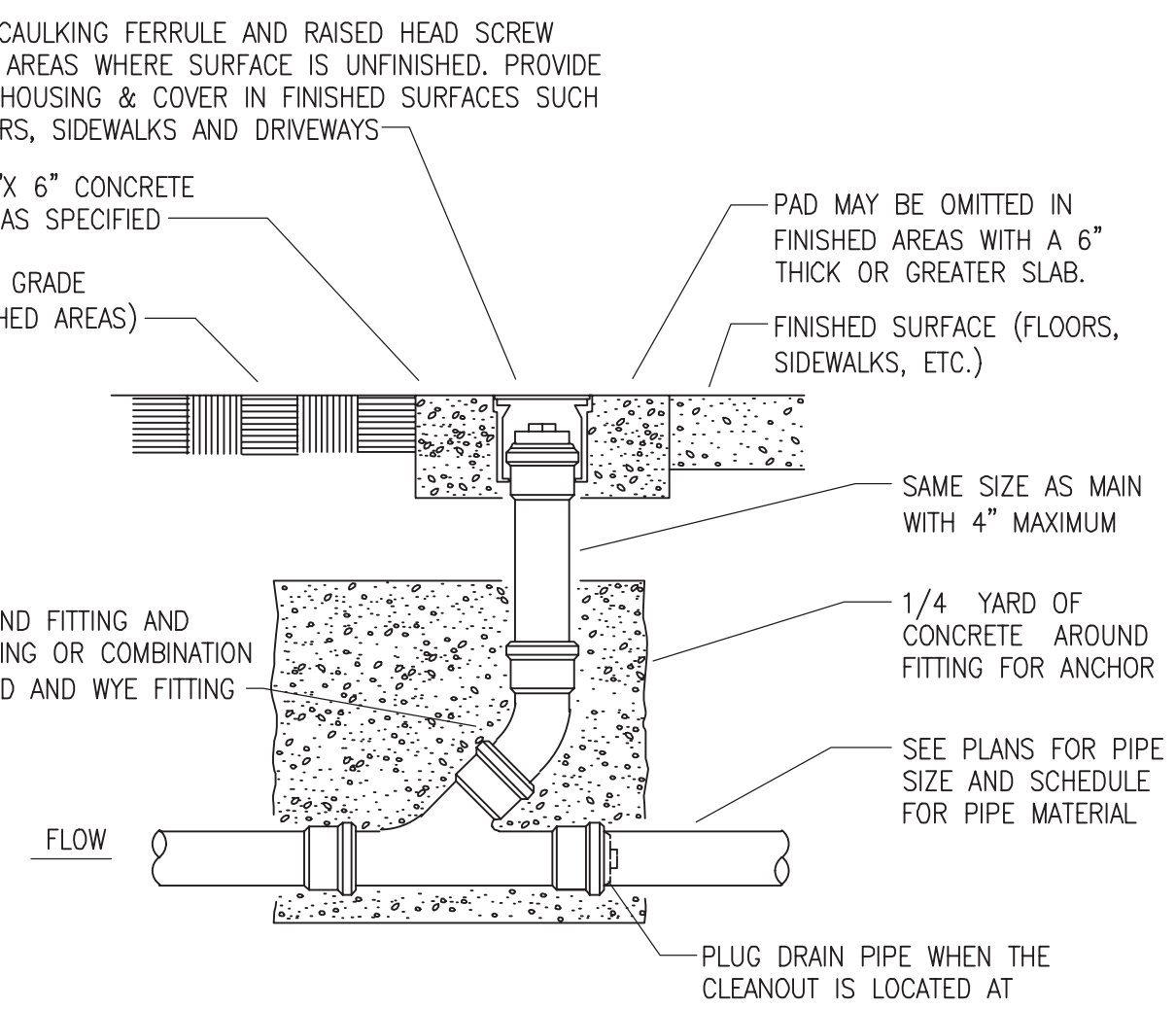
NOTES:
1. COORDINATE PIPING WITH MECHANICAL UNIT ABOVE. PIPING AND WATER HEATER CANNOT BE GREATER THAN 42\"

5 WATER HEATER DETAIL
NO SCALE

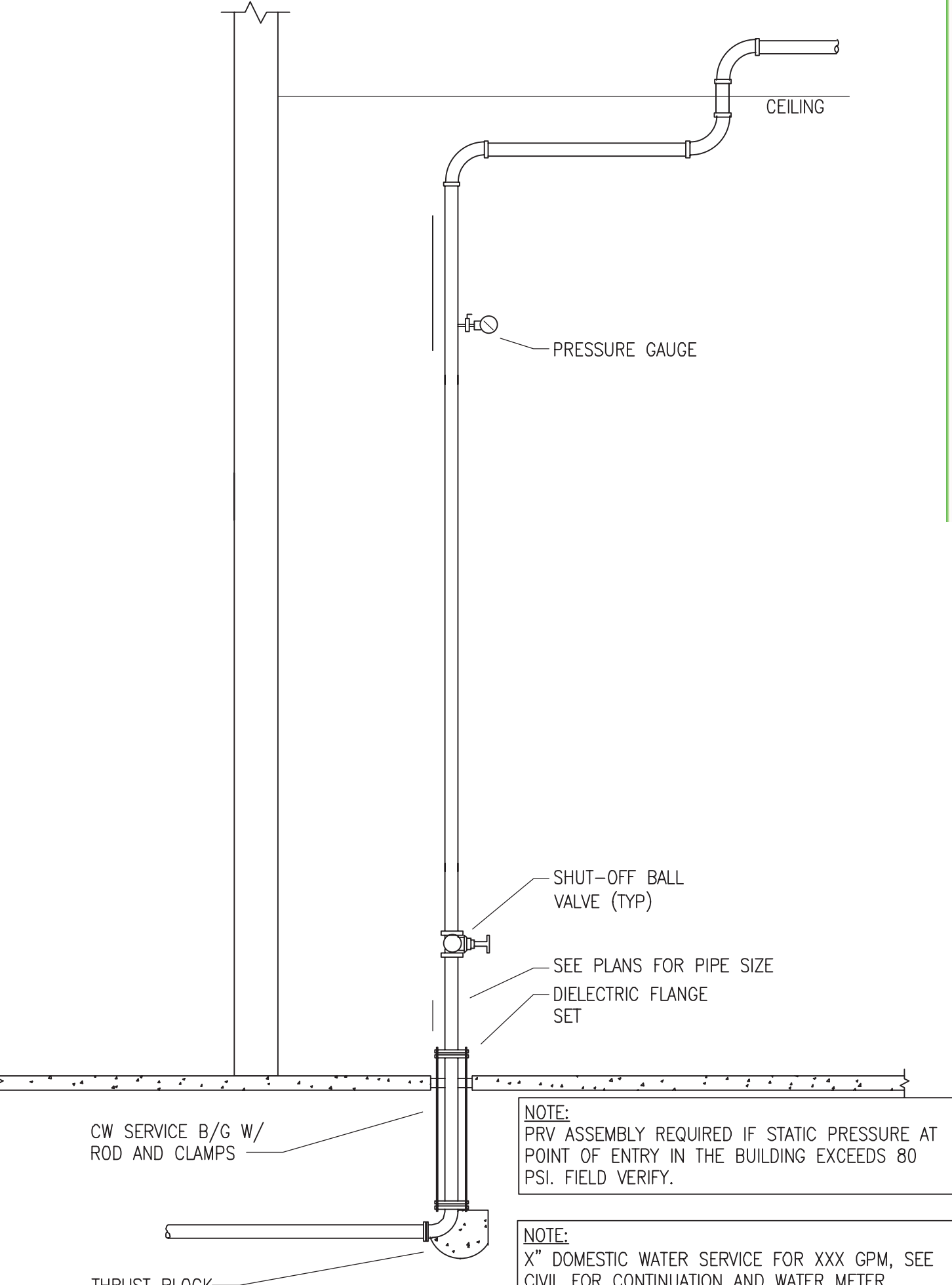


PROVIDE WCO AT BASE OF ALL WASTE STACKS AND RAIN-LEADER DOWNSPOUTS. PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4\"

6 WALL CLEANOUT DETAIL
NO SCALE



7 FLOOR/GRADE CLEANOUT DETAIL
NO SCALE



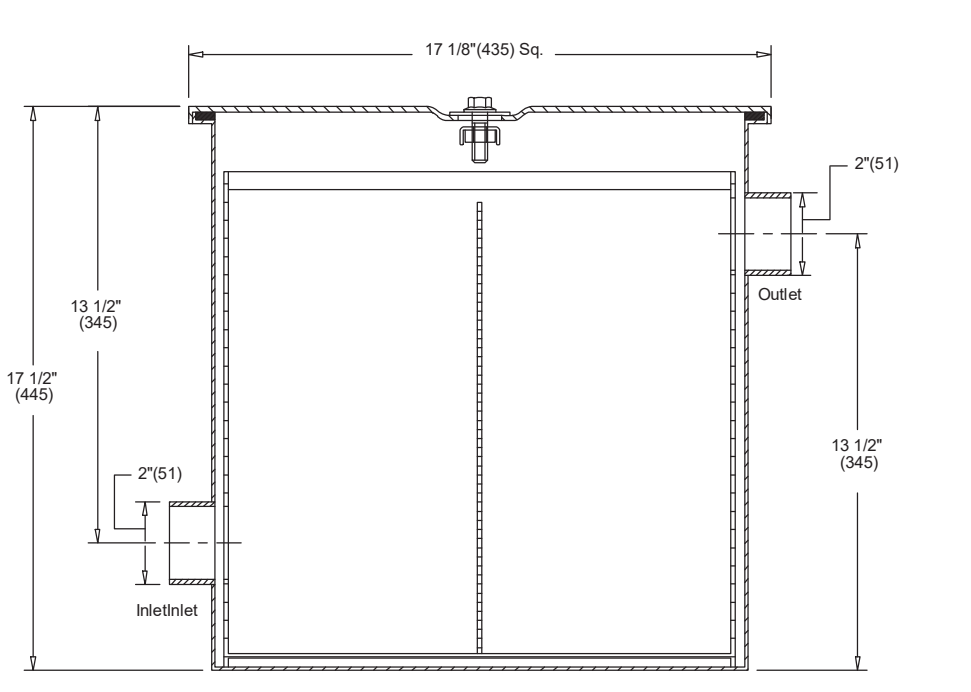
NOTE:
PRV ASSEMBLY REQUIRED IF STATIC PRESSURE AT POINT OF ENTRY IN THE BUILDING EXCEEDS 80 PSI. FIELD VERIFY.

NOTE:
X\"/>

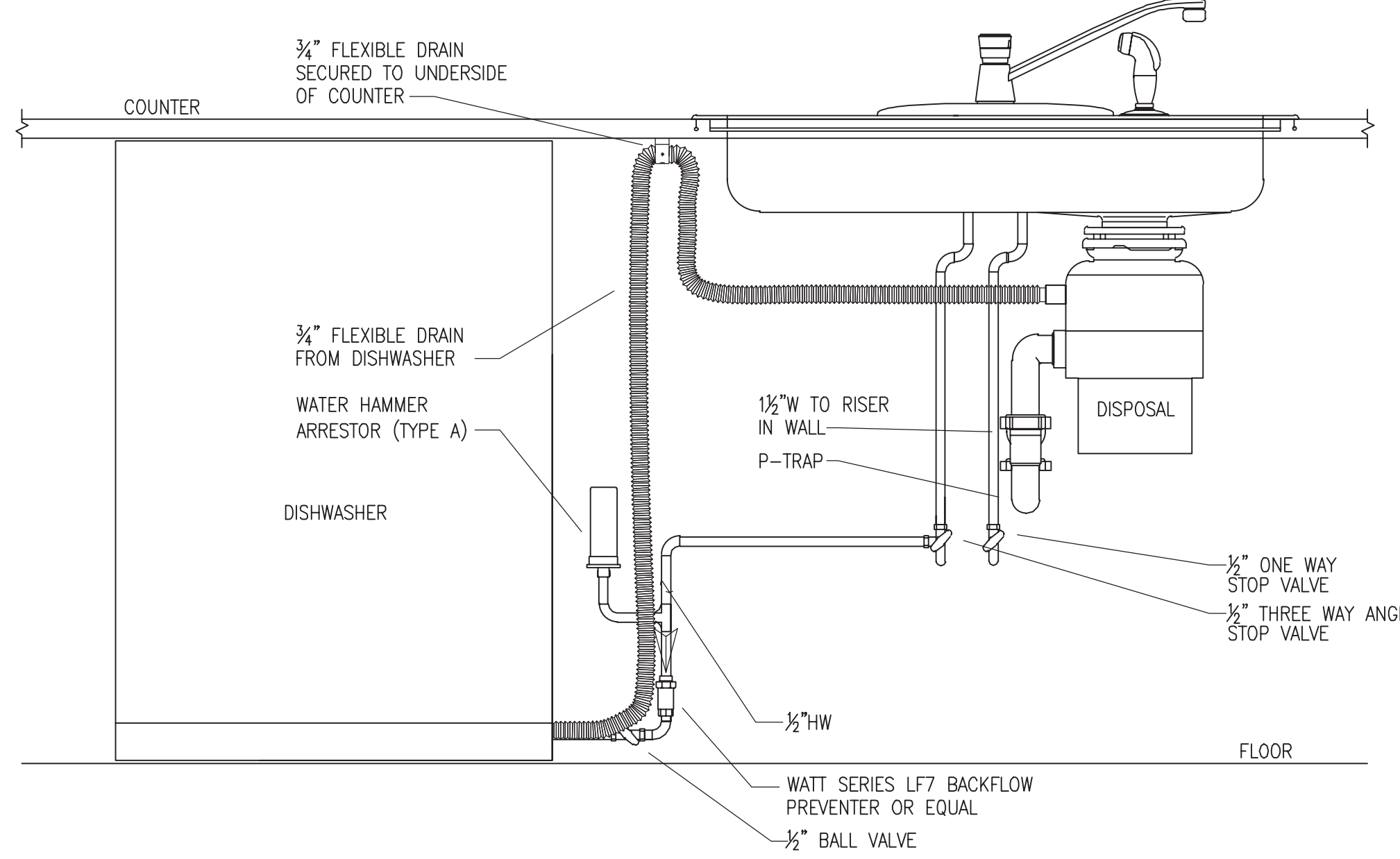
4 DOMESTIC WATER SERVICE ENTRY
NO SCALE

SI-742-L Sediment & Hair Interceptor Specification

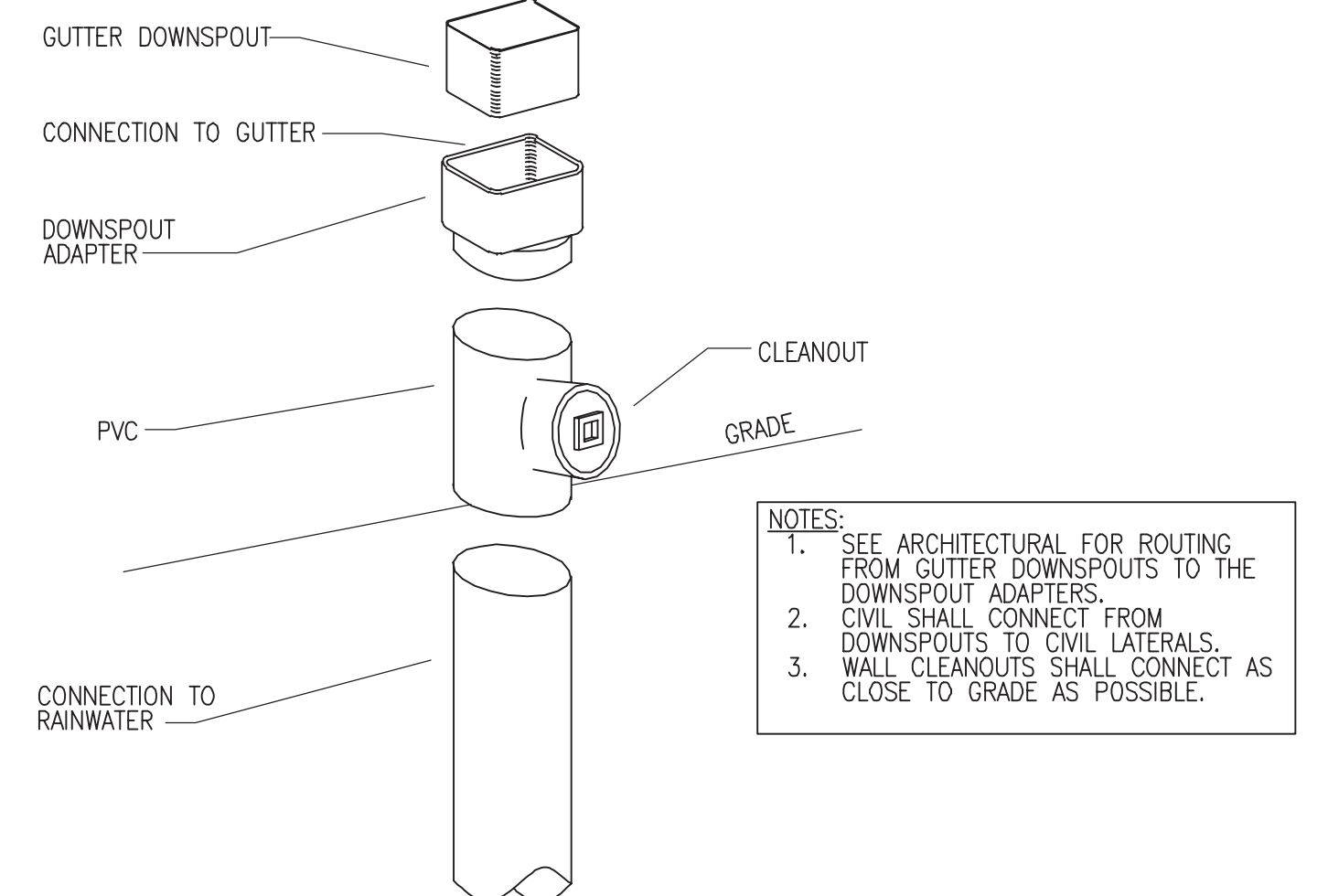
Watts SI-742-L floor mounted or recessed epoxy coated steel large capacity sediment interceptor with gasketed epoxy coated steel skid-proof cover secured with hex head center bolt, removable stainless steel dual chamber basket, and 2\"



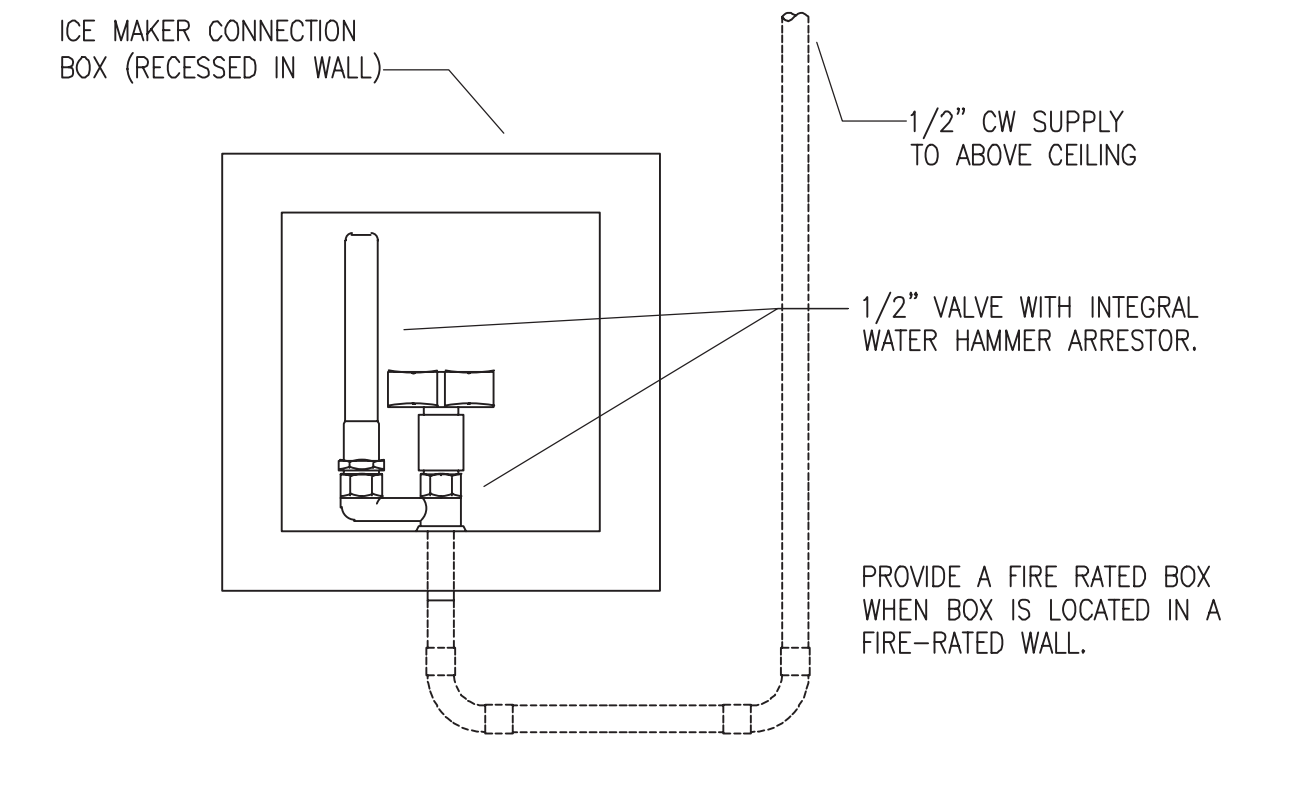
11 HAIR INTERCEPTOR DETAIL
NO SCALE



8 DISHWASHER/DISPOSAL PIPING DETAIL
NO SCALE



9 DOWNSPOUT ADAPTER DETAIL
NO SCALE



10 ICE MAKER BOX DETAIL
NO SCALE

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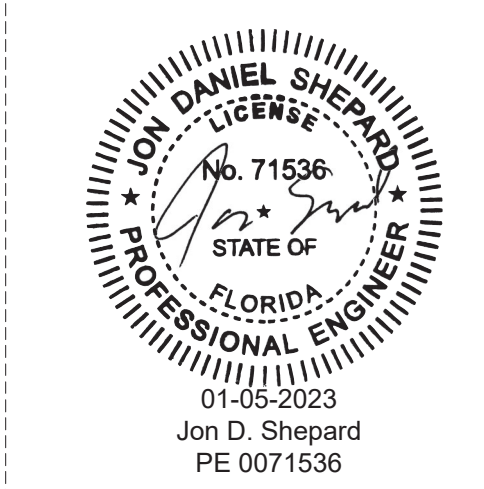
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Mechanical Electrical Plumbing Fire Protection

This set has been digitally signed and sealed by Jon D. Shepard, PE on January 5, 2023 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

