

DRAWING TITLE:
PLUMBING TITLE SHEET

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CONSTRUCTION DOCUMENTS

REVISIONS		
NO.	DATE	DESCRIPTION

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- PLUMBING NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.
 - ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
 - FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
 - FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
 - ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
 - WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
 - PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
 - WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO MECHANICAL JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "C". CROSS-LINKED POLYETHYLENE PIPING IS ACCEPTABLE, SO LONG AS ALL LOCAL BUILDING CODES ARE ADHERED TO, SUPPORT AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSIG. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 1/2" AIR CHAMBERS OR SHOCK ARRESTORS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING INTO SERVICE.
 - SANITARY SEWER LINES SHALL BE PVC AND SLOPED TOWARD DRAINAGE DIRECTION AT A MINIMUM OF 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. SLOPE SHALL BE 1/8" PER FOOT FOR PIPING SIZES 3" - 4".
 - WHERE APPLICABLE, ANY DEVICE THAT SHALL SERVE A SPECIAL FUNCTION SUCH AS PROCESSING OR ICE STORAGE, AND CONNECTS TO WATER SUPPLY AND DRAIN, SHALL BE PROTECTED AGAINST BACKFLOW WITH APPROVED BACKFLOW PREVENTION DEVICE.
 - PROVIDE PRESSURE REDUCING VALVE IF STREET PRESSURE EXCEEDS 80 PSIG.
 - SHOULD WATER PRESSURE BE TOO LOW TO PROPERLY CYCLE FLUSH VALVE FIXTURES, A BOOSTER PUMP SHALL BE REQUIRED. SUFFICIENT WATER PRESSURE IS ASSUMED FOR PROPER PLUMBING OPERATION.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.
 - LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES, ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.
 - ALL FLOOR DRAINS AND TRENCH DRAINS, IF APPLICABLE, SHALL BE PROVIDED WITH TRAP PRIMERS.
 - ADD ADDITIONAL DEVICES TO CAPTURE HAIR / TEETH FOR WET TABLES AND GROOMING TUBS.

PLUMBING AND PIPING SYMBOLS

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
G	NATURAL GAS
PG	PROPANE GAS
REF-L	REFRIGERANT-LIQUID
REF-S	REFRIGERANT-SUCTION
REF-HC	REFRIGERANT-HOT GAS
STM	STEAM
CDR	CONDENSATE RETURN
CWV	COMBINATION WASTE & VENT
CA	COMPRESSED AIR
CW	DOMESTIC COLD WATER
H-CW	HARD COLD WATER
S-CW	SOFT COLD WATER
F-CW	FILTERED COLD WATER
RO	REVERSE OSMOSIS WATER
HW	HOT WATER
HW 140°	HOT WATER 140°
HW R 140°	HOT WATER RECIRCULATION
HW R 140°	HOT WATER RECIRCULATION 140°
GV	GREASE VENT
GW	GREASE WASTE
HW	INDIRECT WASTE
OV	OL WASTE
OW	OL WASTE
PD	PUMP DISCHARGE
V	SANITARY VENT
SS	SANITARY SEWER
SHWR	SOLAR HOT WATER RETURN
SHWS	SOLAR HOT WATER SUPPLY
SD	STORM DRAINAGE
OSD	OVERFLOW STORM DRAINAGE

PIPE ACCESSORY TAGS

4" FCO	CLEANOUT
2" SHUTOFF BALL VALVE	2" SHUTOFF BALL VALVE
1" GAS-CNTRL EMERG. GAS SHUTOFF	1" GAS-CNTRL EMERG. GAS SHUTOFF
2" STRAINER	2" STRAINER
1" PLUG VALVE	1" PLUG VALVE
1" PLUG GAS SHUTOFF COCK	1" PLUG GAS SHUTOFF COCK
2" M-CNTRL ELEC. CONTROL	2" M-CNTRL ELEC. CONTROL
1" REG PRESS REGULATOR	1" REG PRESS REGULATOR
2" BALANCE VALVE SYMBOL	2" BALANCE VALVE SYMBOL
TMV-XXX THERMOSTATIC MIXING	TMV-XXX THERMOSTATIC MIXING
2" CIRCUIT SETTER	2" CIRCUIT SETTER
1/2" TMV EMERG. THERMOSTATIC	1/2" TMV EMERG. THERMOSTATIC
2" PRV PRESS REDUCING	2" PRV PRESS REDUCING
DOUBLE CHECK VALVE	DOUBLE CHECK VALVE
2" GATE VALVE	2" GATE VALVE
2" DOM. WM DOM. WATER METER	2" DOM. WM DOM. WATER METER
REDUCED PRESSURE ZONE	REDUCED PRESSURE ZONE
2" QUICK OPENING	2" QUICK OPENING
1/2" DOM. WM IRRIGATION WATER METER	1/2" DOM. WM IRRIGATION WATER METER

DRAIN TAGS

FLOOR DRAIN	4" FD-1	TYPE (SEE SCHEDULE)	4" AD-2	AREA DRAIN NO TRAP
TRAP PRIMER	4" FD-3P	7" - INDICATES PRIMER CONNECTION	4" SD-29	DECK DRAIN
DEEP TRAP	4" FD-3		4" SD-12	FLOW CONTROL DRAIN
INTEGRAL CLEANOUT	8 DFU	FIXTURE UNITS	4" SD-15	STORM DRAIN
HUB DRAIN	4" FD-14		6" SD-1	COMBINATION DRAINS
FLOOR SINK	4" FS-4			

PLUMBING FIXTURE TAGS

TYPE (SEE SCHEDULE)

WC-1A	WC-1	U-1
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PIPE ACCESSORY TAG

4" WCO

NOTE:
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL MECHANICAL SYMBOLS

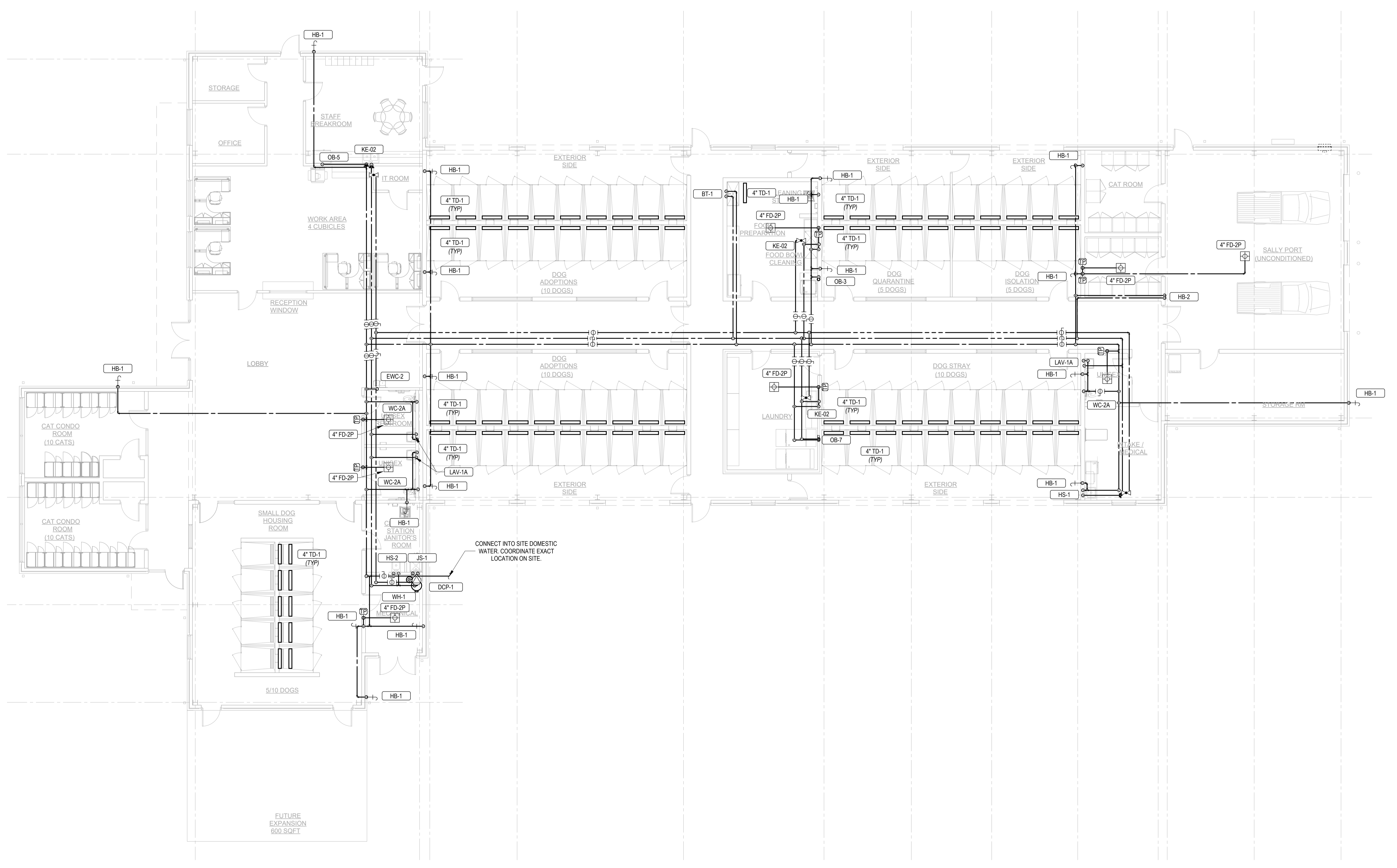
REVISION NUMBER - SHOWN ON PLANS
POINT WHERE NEW CONNECTS TO EXISTING
NUMBER OF DETAIL ON SHEET
NUMBER OF SHEET WHERE DETAIL APPEARS
KEYNOTE
CONTINUATION SYMBOL
ROOM NAME AND NUMBER
ITEM TO BE DEMOLISHED
AREA NOT IN CONTRACT
PIPE SIZE TAG (DIAMETER)
PIPE SLOPE TAG
BELOW GROUND PIPING
PIPE INVERT ELEVATION TAG
EXISTING PIPE TAG
PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
AAV	AIR ADMITTANCE VALVE	LWT	LEAVING WATER TEMPERATURE
ABV	ABOVE	MA	MIXED AIR
AC	AIR CONDITIONING	MAX	MAXIMUM
AD	AREA DRAIN	MBH	ONE THOUSAND BTU PER HOUR
ADD	ADDENDUM	MCF	ONE THOUSAND CUBIC FEET
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MECH	MECHANICAL
ALT	ALTERNATE	MFR	MANUFACTURER
AP	ACCESS PANEL	MIN	MINIMUM
ARCH	ARCHITECT/ARCHITECTURAL	MISC	MISCELLANEOUS
BFF	BELOW FINISHED FLOOR	MTR	MOTOR
BLW	BELOW	MUA	MAKE-UP/AIR
BTU	BRITISH THERMAL UNITS	NC	NOISE CRITERIA
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
CAP	CAPACITY	NIC	NOT IN CONTRACT
CB	CATCH BASIN	NO	NUMBER
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	O	OXYGEN
CW	COLD WATER	OA	OUTSIDE AIR
D	DEGREE	ORD	OVERFLOW ROOF DRAIN
DB	DRY BULB	PD	PRESSURE DROP
DA	DIAMETER	PIV	PISTON INDICATOR VALVE
DN	DOWN	PLBG	PLUMBING
DW	DISTILLED WATER	PRESS	PRESSURE
EA	EACH	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PSIG	POUNDS PER SQUARE INCH GAUGE
EQUIP	EQUIPMENT	PWR	POWER
EWIC	ELECTRIC WATER COOLER	R	RADIANT RISER
EWT	ENTERING WATER TEMPERATURE	R/A	RETURN AIR
EA	EXHAUST AIR	RCP	RADIANT CEILING PANEL
EXIST	EXISTING	RD	ROOF DRAIN
F	DEGREES FAHRENHEIT	REC	RECESSED
FCD	FLOOR CLEAN OUT	RED	REDUCER
FD	FLOOR DRAIN	RH	RELATIVE HUMIDITY
FDC	FIRE DEPARTMENT CONNECTION	R/LA	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FFM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOTFEET	SD	SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GF	GAS-FIRED	SP	STATIC PRESSURE
GC	GENERAL CONTRACTOR	STM	STEAM
GPM	GALLONS PER MINUTE	T	THERMOSTAT
GW	GREASE WASTE	TD	TEMPERATURE DROP
HB	HOSE BIB	TDR	TRENCH DRAIN
HP	HORSE POWER	TEMP	TEMPERATURE
HTG	HEATING	TYP	TYPICAL
HTR	HEATER	UG	UNDERGROUND
HW	HOT WATER	VAC	VACUUM
HYD	HYDRANT	V	VENT
ID	INDIRECT	VAV	VARIABLE AIR VOLUME
IN	INCH	VENT	VENTILATION
INV	INVERT	VTR	VENT THROUGH ROOF
LB	POUND	W	WASTE
LBHR	POUNDS PER HOUR	WB	WET BULB
LAT	LEAVING AIR TEMPERATURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACU	AIR COOLING CONDENSING UNIT	ENH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRRJ	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER



1 PLUMBING DOMESTIC WATER PLAN
P101 1/8" = 1'-0"

DRAWING TITLE:
PLUMBING DOMESTIC WATER PLAN

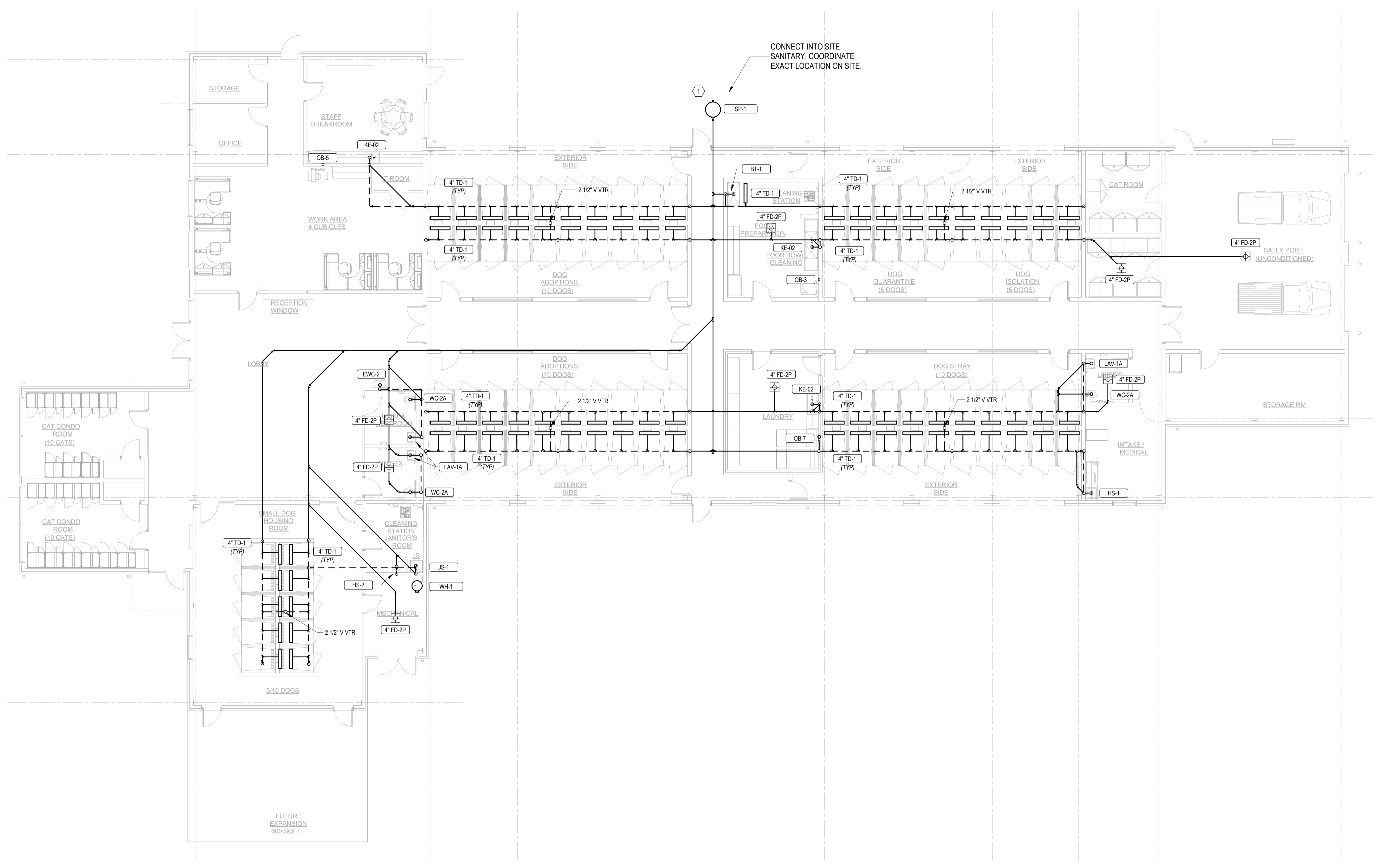
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ISSUE DATE: 07-18-2024

KEYNOTES
1 CONTRACTOR SHALL COORDINATE WITH CIVIL ENGINEER FOR EXACT PUMP SELECTION TO OVERCOME FORCE MAIN.



1 PLUMBING SANITARY AND VENT PLAN
P102 1/8" = 1'-0"

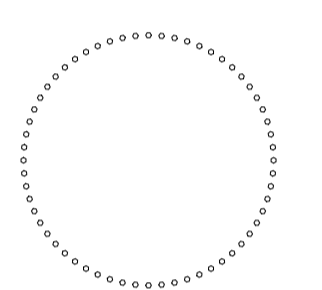
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DRAWING TITLE:
PLUMBING DOMESTIC WATER ISOMETRIC PLAN

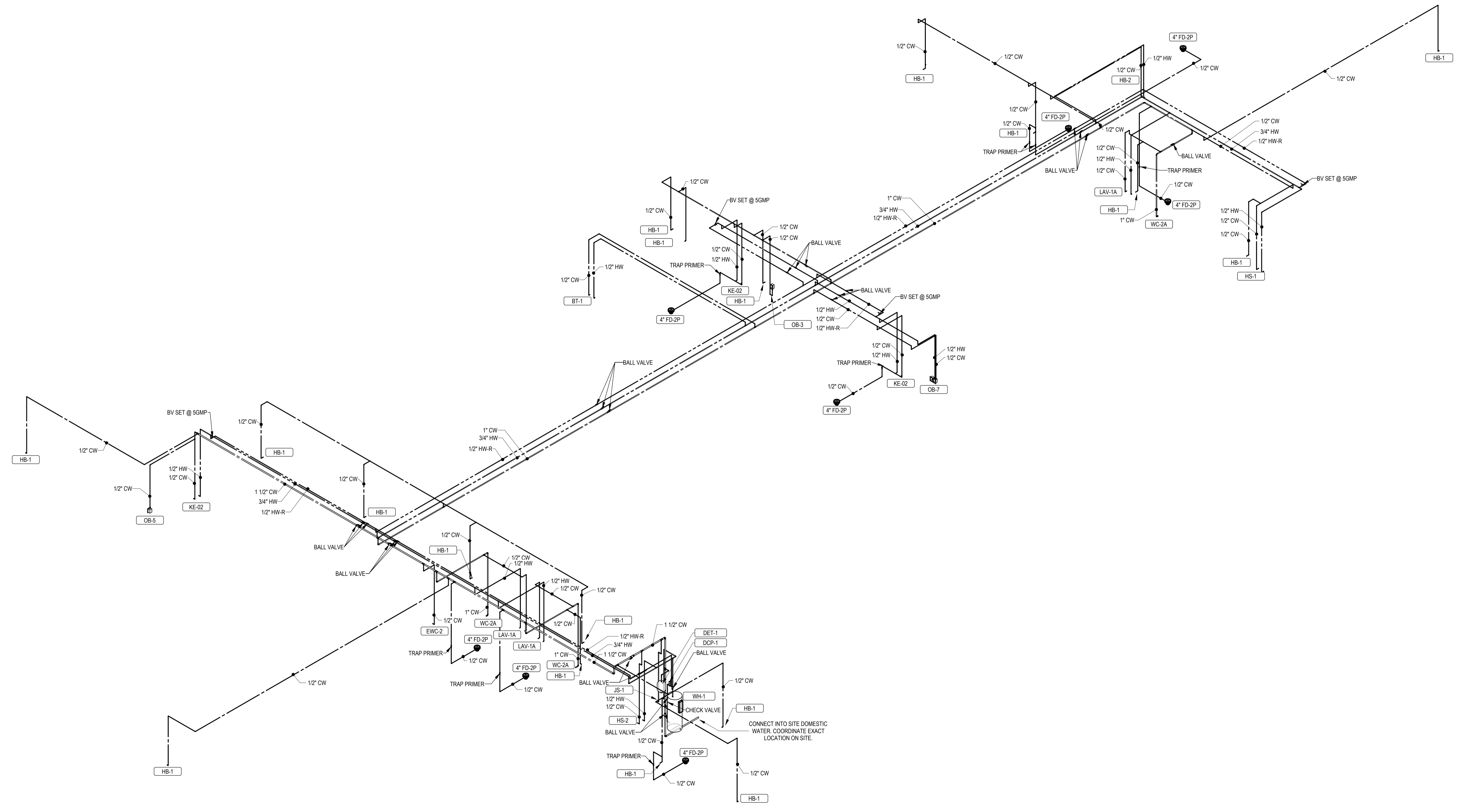
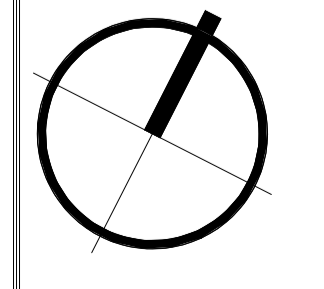
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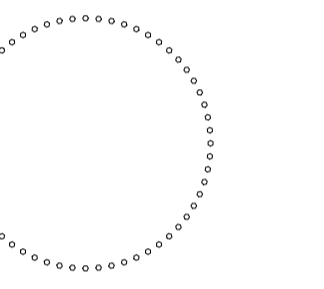
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ISSUE DATE: 07-18-2024

P201



1 DOMESTIC WATER RISER DIAGRAM
P201



DRAWING TITLE:
**PLUMBING SANITARY AND VENT
ISOMETRIC PLAN**

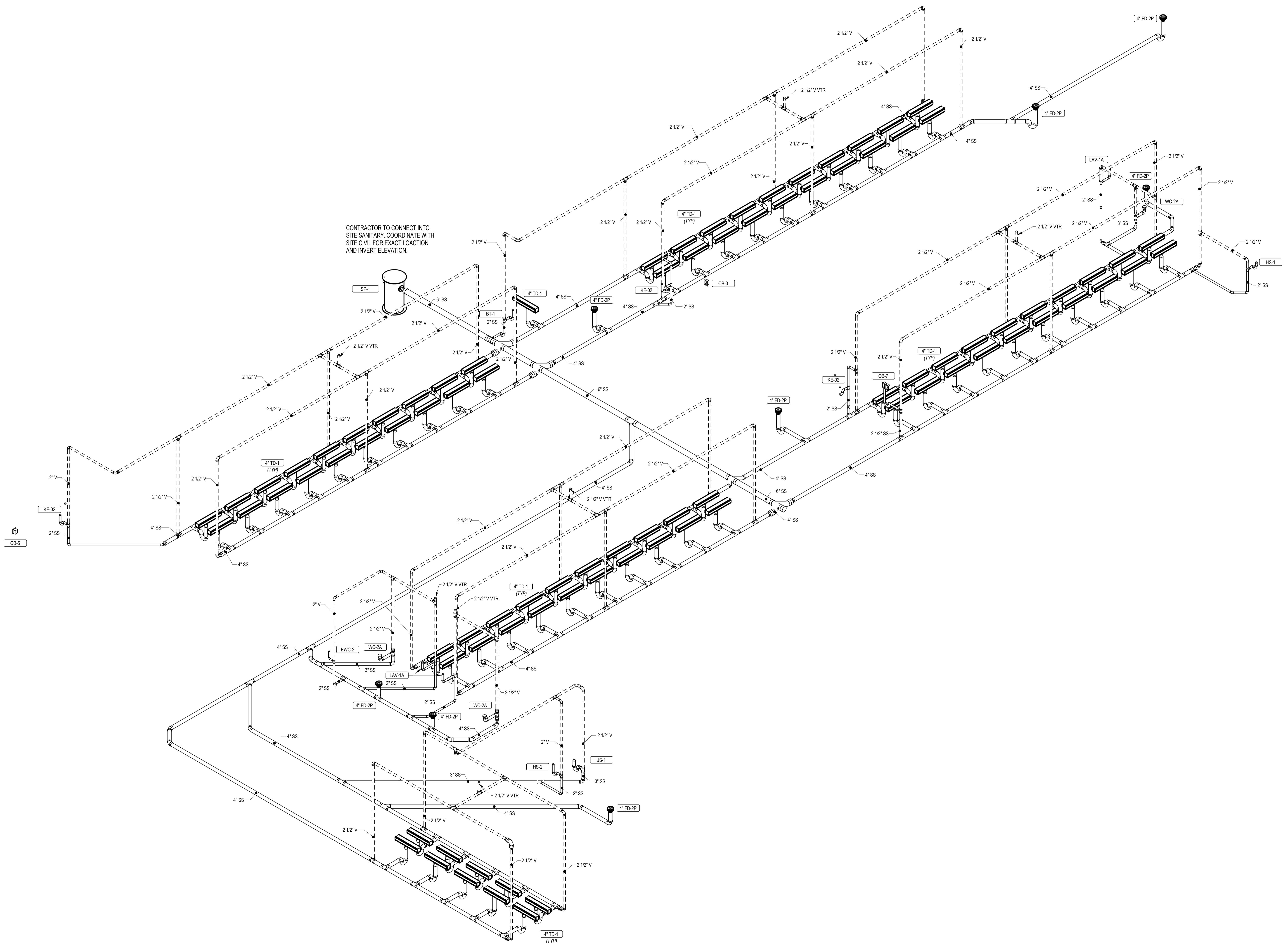
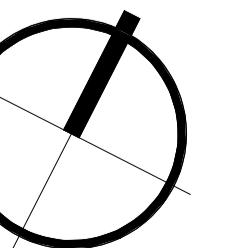
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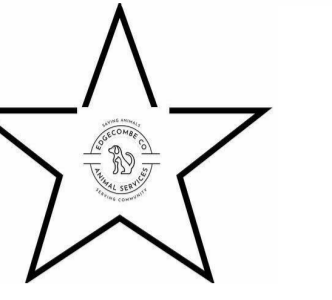
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Edgecomb County Animal Shelter
TARBORO

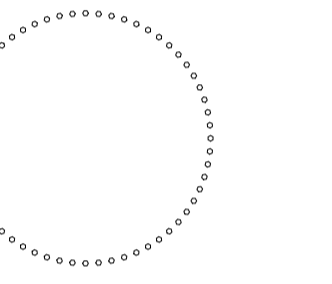


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120 SOMMERSVILLE PARK ROAD
RALEIGH, NC 27603
NC FIRM # C-3824
KGP PROJECT # 223S47



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PLUMBING SCHEDULES

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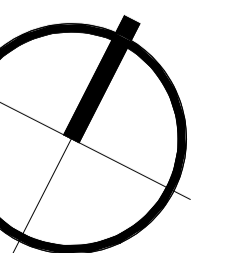
CONSTRUCTION DOCUMENTS

REVISIONS

Table with 3 columns: NO., DATE, DESCRIPTION

ISSUE DATE: 07-18-2024

P301



DOMESTIC FIXTURE SCHEDULE table with columns: ID, DESCRIPTION, MANUFACTURER, MODEL, QTY, MATERIAL DESCRIPTION, FINISH, TRIM, MOTION SENSOR CONTROL, WATER FLOW, TUBER DURATION, CWT, HWT, MAX MWT, VOL. PER FLUSH, MIN. VOL. PER FLUSH, WASTE ROUGH-IN PIPE SIZE, INDIRECT WASTE PIPE SIZE, VENT PIPE SIZE, COLD WATER ROUGH-IN PIPE SIZE, HOT WATER ROUGH-IN PIPE SIZE, SPECIFICATION, REMARKS

Grand total: 37

FLOOR DRAIN SCHEDULE

FLOOR DRAIN SCHEDULE table with columns: ID, DESCRIPTION, MANUFACTURER, MODEL, QTY, MATERIAL DESCRIPTION, PRIMER CONNECTION, WASTE PIPE SIZE, VENT PIPE SIZE, PRIMER PIPE SIZE, SPECIFICATION, REMARKS

Grand total: 99

ELECTRIC WATER HEATER SCHEDULE

ELECTRIC WATER HEATER SCHEDULE table with columns: ID, MANUFACTURER, MODEL NO., TYPE, HEATING CAP, STORAGE, RECOVERY, VOL, MAX TEMP, RISE, QTY, POWER, SCR, EF, ASME, UNIT WEIGHT, FLA, MCA, MOC, VOLT, PH, REMARKS

DOMESTIC EXPANSION TANK SCHEDULE

DOMESTIC EXPANSION TANK SCHEDULE table with columns: ID, MANUFACTURER, MODEL NO., SYSTEM, TYPE, ARRANGEMENT, VOL, MAX ACCEPTANCE FACTOR, ACCEPTANCE VOL, PRESS RELIEF, PRECHARGE PRESS, UNIT DIMENSIONS, ASME, UNIT WEIGHT, REMARKS

DOMESTIC CIRCULATING PUMP SCHEDULE

DOMESTIC CIRCULATING PUMP SCHEDULE table with columns: ID, SYSTEM, MANUFACTURER, MODEL NO., TYPE, MOTOR, UNIT, OPTIONS, AQUASTAT, TIMER KIT, FLA, MCA, MOC, VOLT, PH, REMARKS

GRINDER PUMP SCHEDULE

GRINDER PUMP SCHEDULE table with columns: ID, MANUFACTURER, MODEL NO., DESIGN FLOW, HEAD, POWER, FLA, VOLT, PH, REMARKS

DRAINAGE FIXTURE UNIT SUMMARY

DRAINAGE FIXTURE UNIT SUMMARY table with columns: ID, FIXTURE DESCRIPTION, QTY, WASTE SIZE, DFU DEMAND, TOTAL

Grand total: 24

WATER SUPPLY FIXTURE UNIT SUMMARY

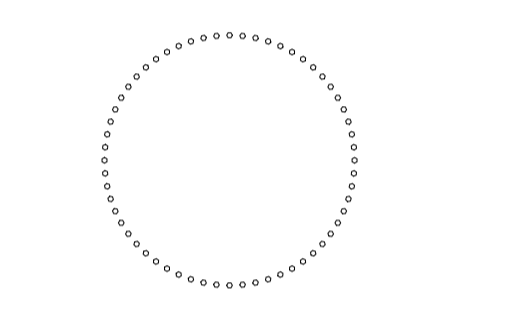
WATER SUPPLY FIXTURE UNIT SUMMARY table with columns: ID, FIXTURE DESCRIPTION, QTY, PIPE SIZE, DW, HW, DFU DEMAND, CWFU DEMAND, HWFU DEMAND, WSFU DEMAND, TOTAL

Grand total: 37

PIPE ACCESSORY SCHEDULE

PIPE ACCESSORY SCHEDULE table with columns: TYPE ID, NOMINAL DIAMETER, DESCRIPTION, MANUFACTURER, MODEL

Grand total: 37



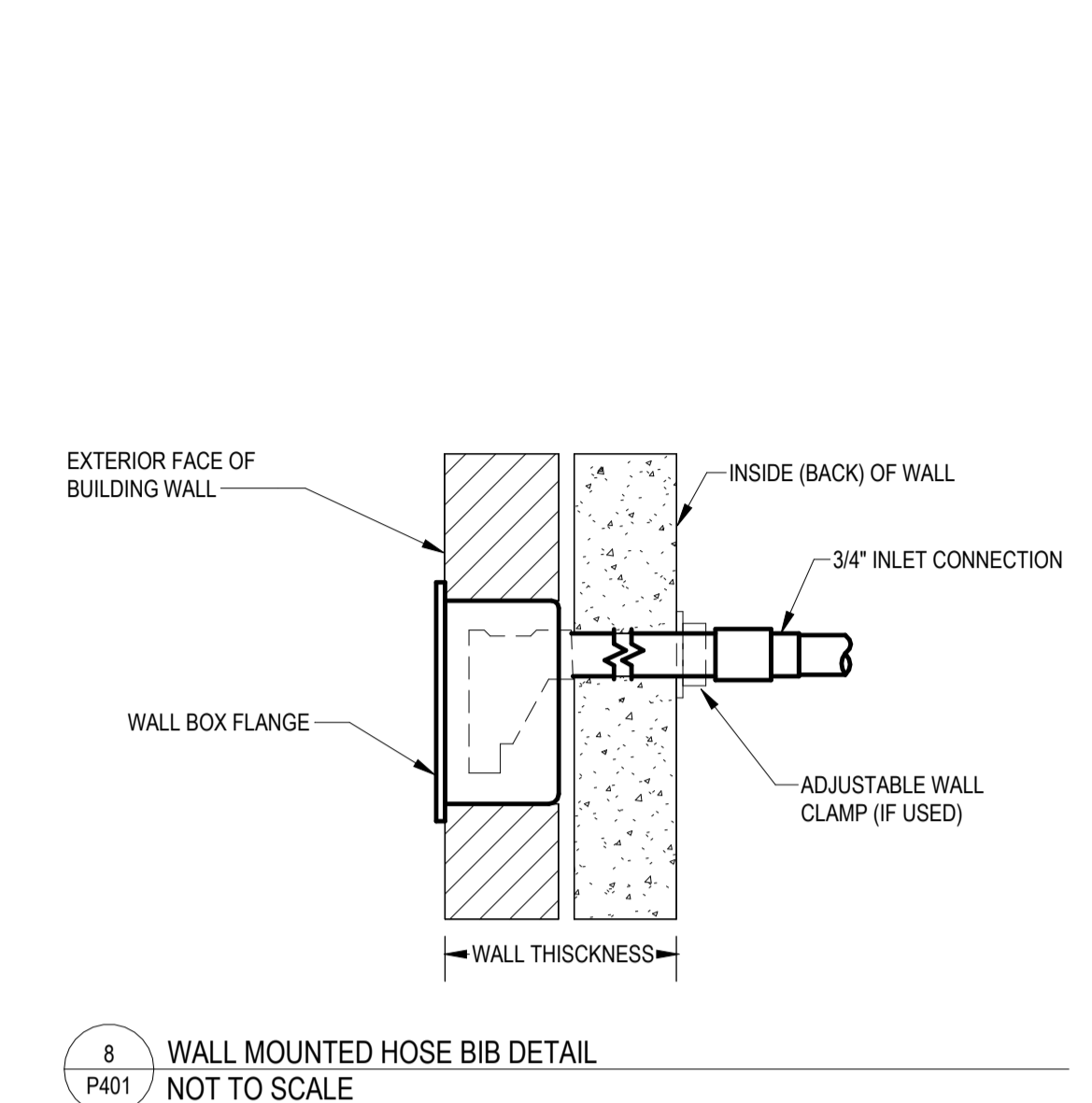
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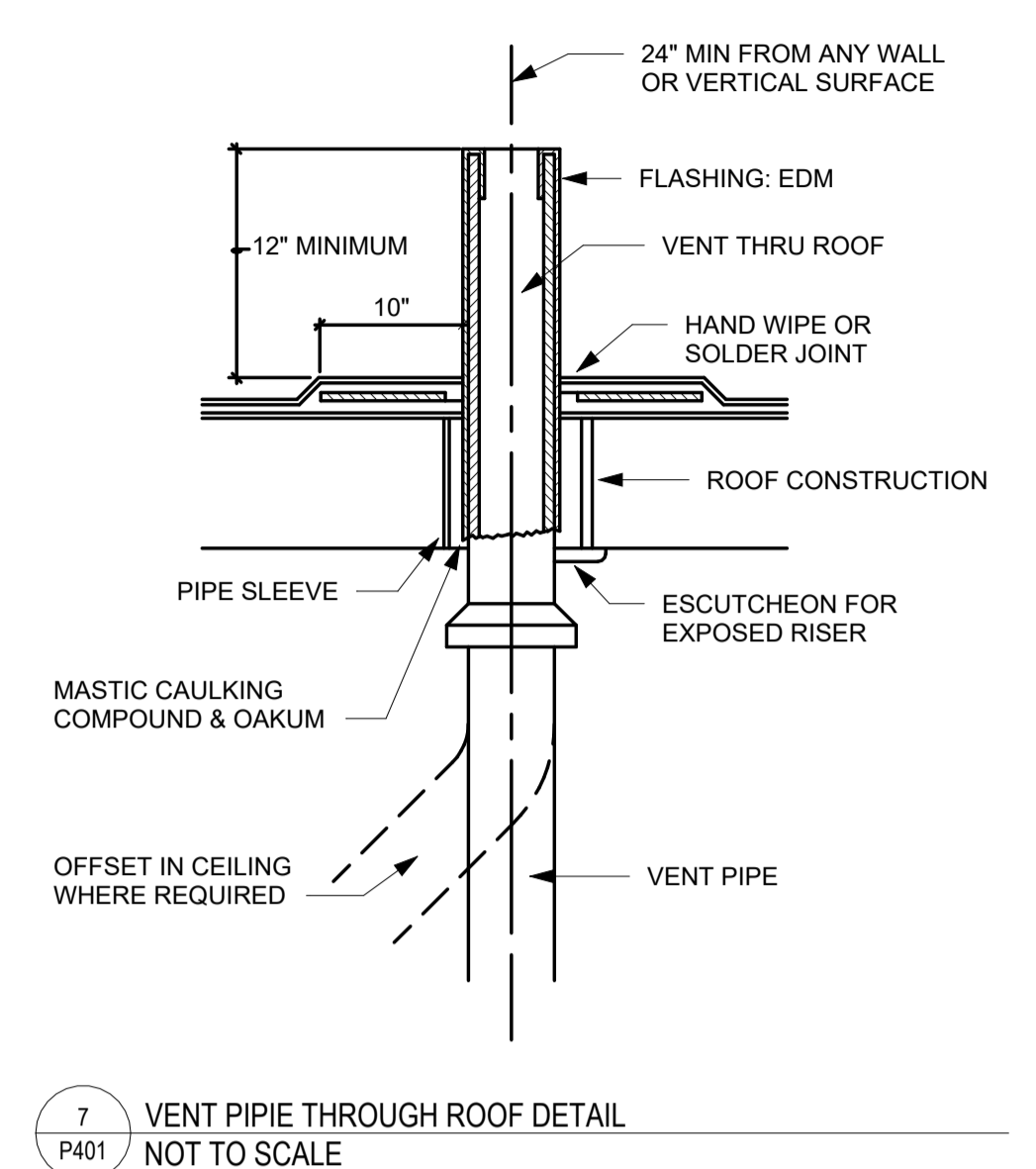
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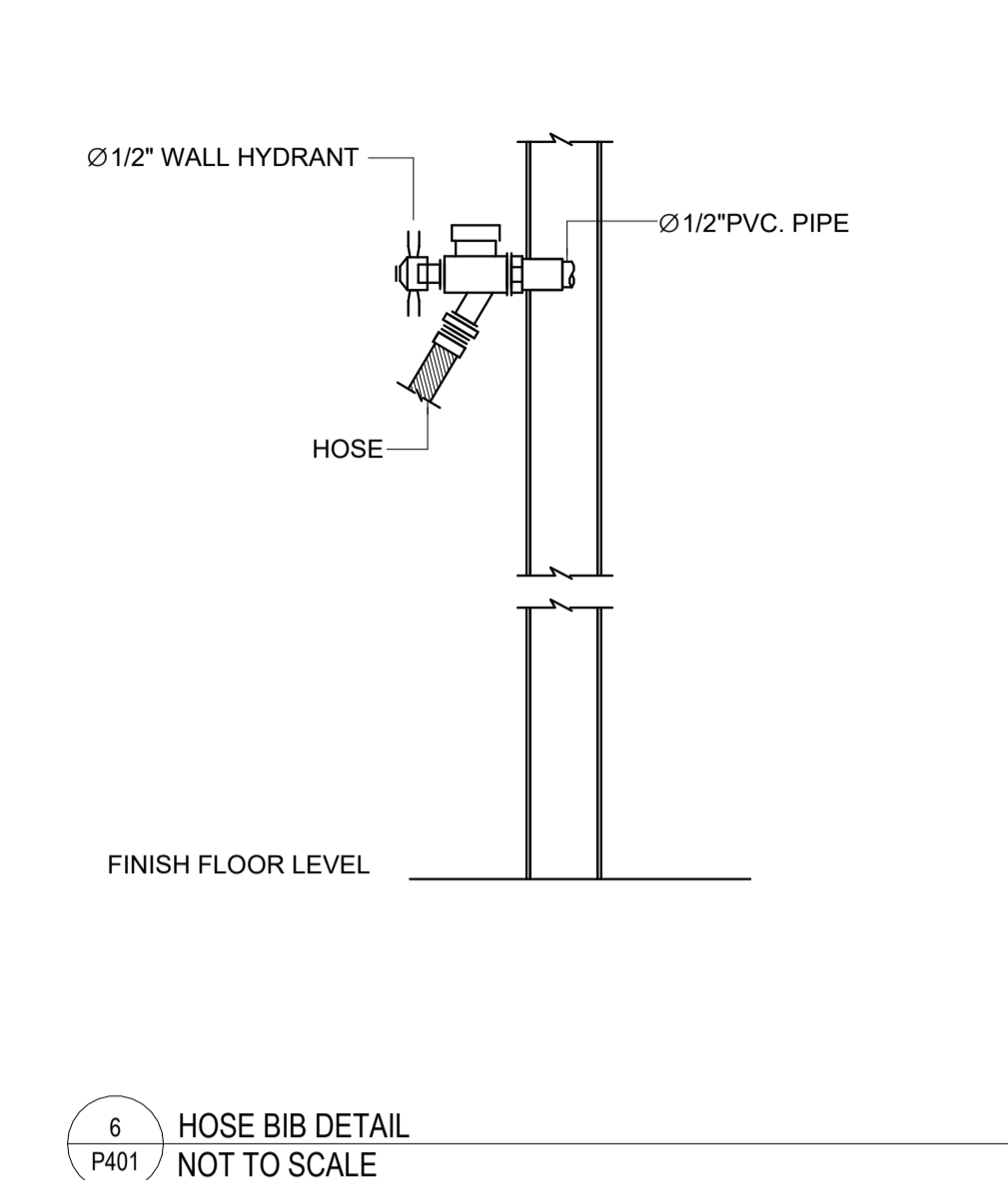
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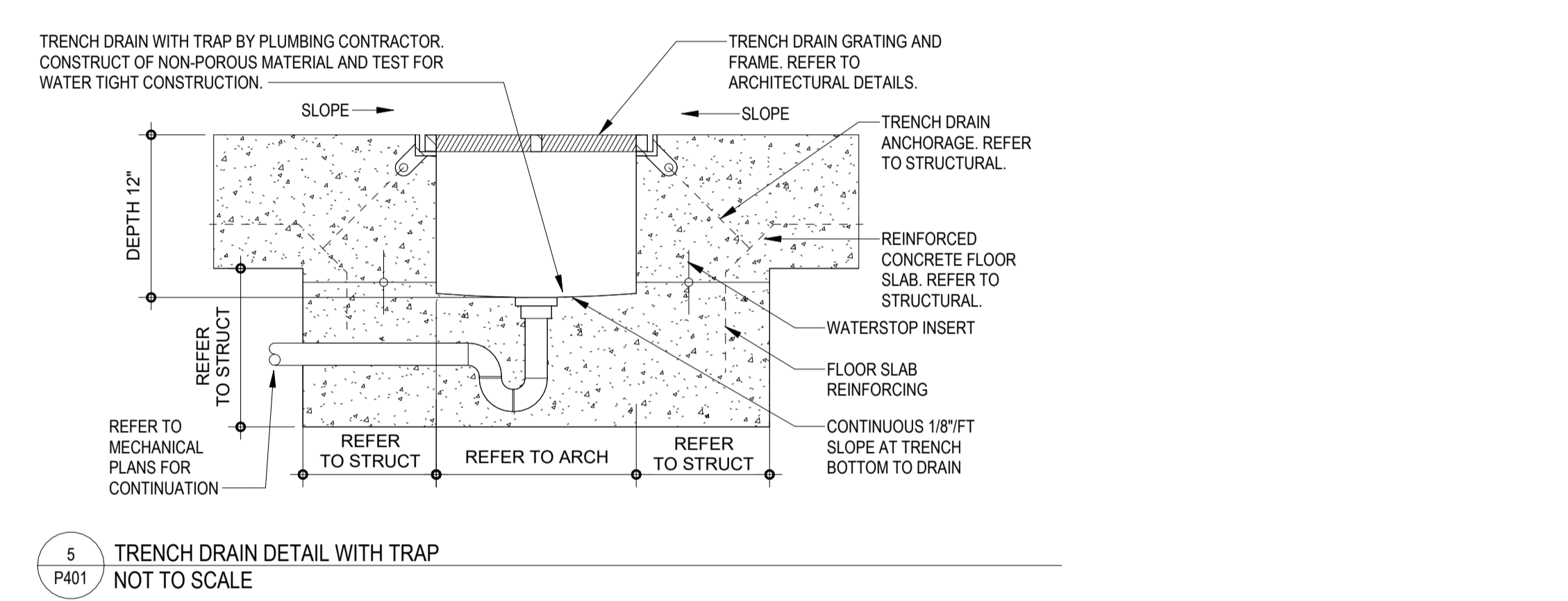
8 WALL MOUNTED HOSE BIB DETAIL
P401 NOT TO SCALE



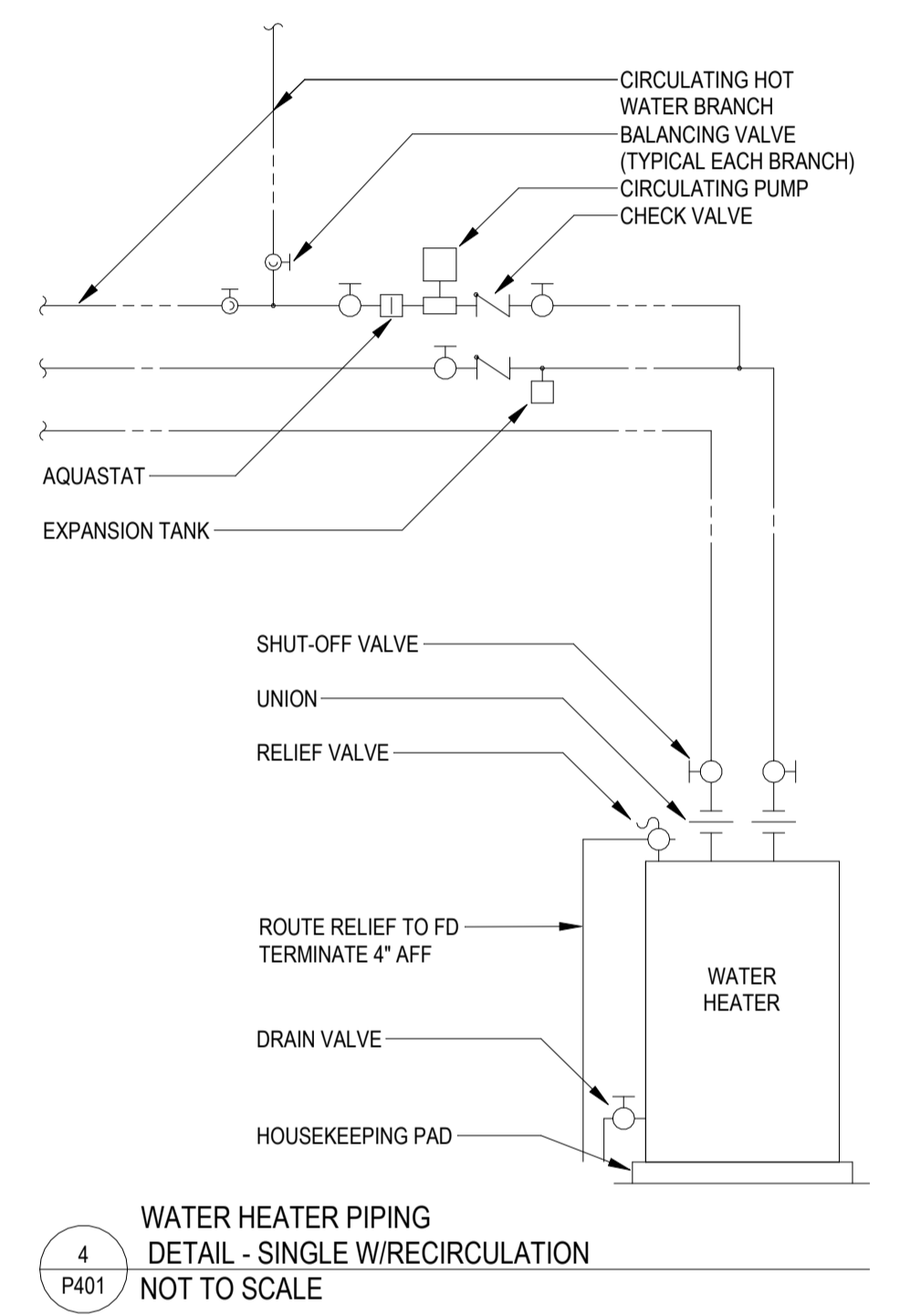
7 VENT PIPE THROUGH ROOF DETAIL
P401 NOT TO SCALE



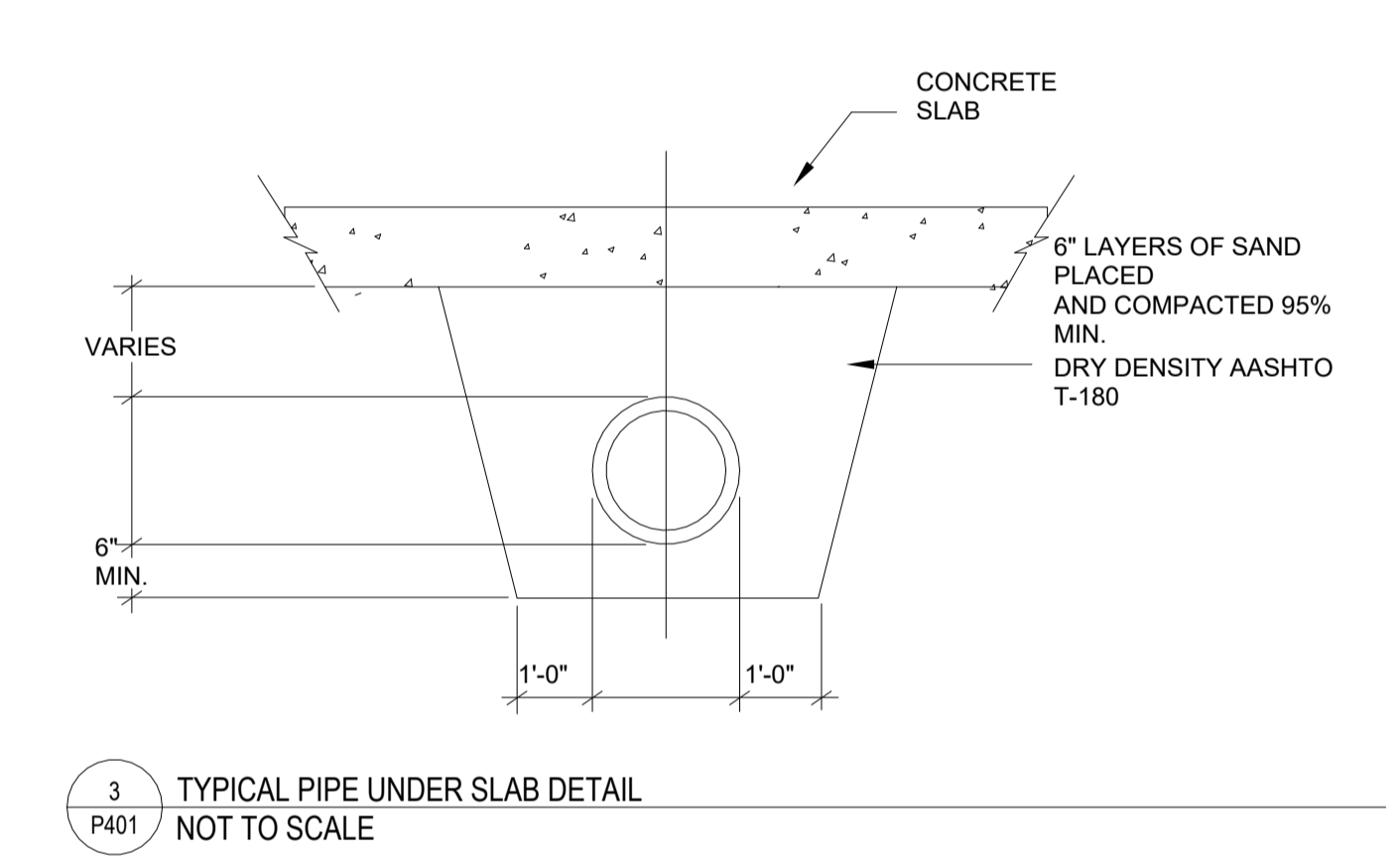
6 HOSE BIB DETAIL
P401 NOT TO SCALE



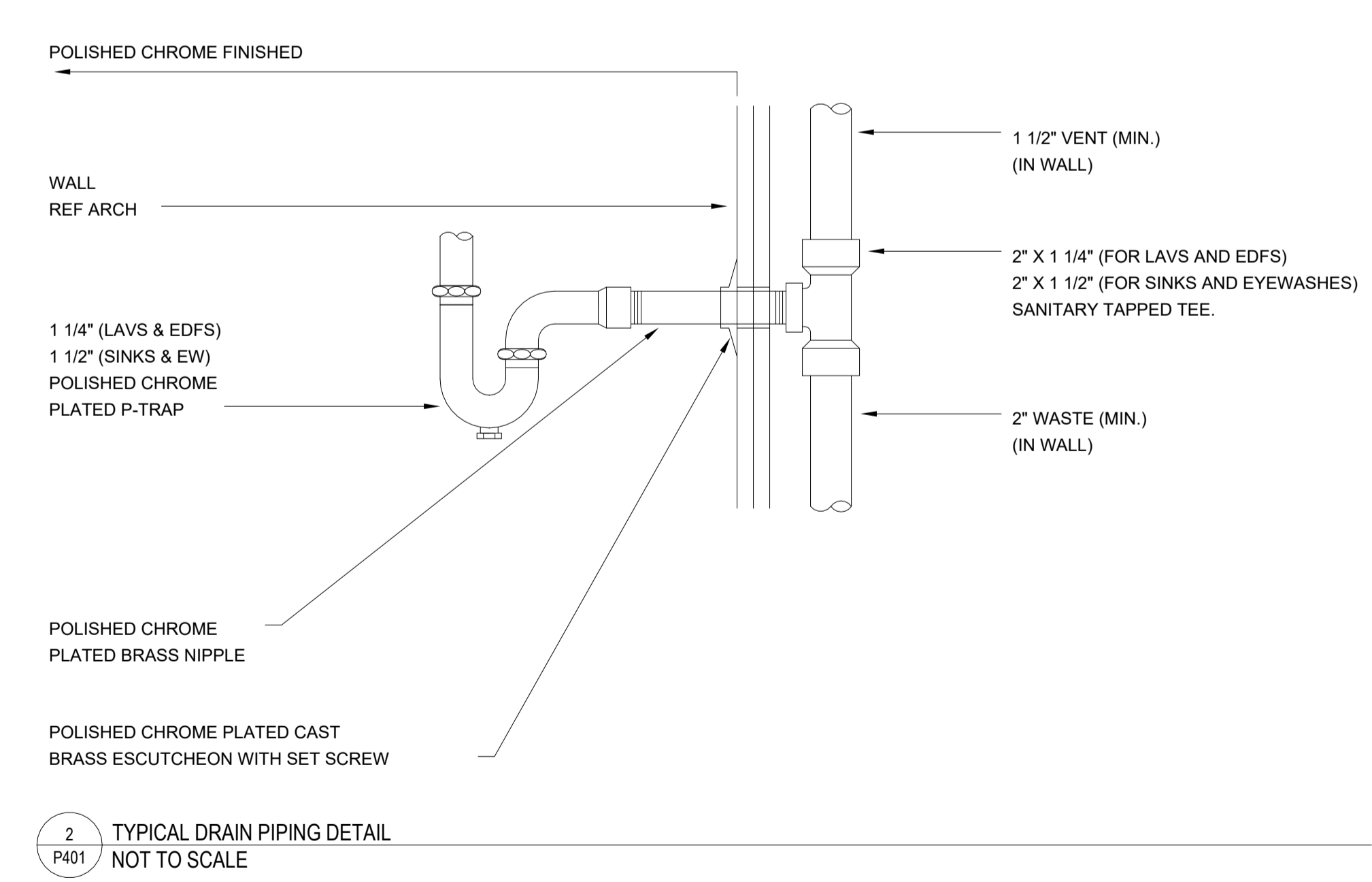
5 TRENCH DRAIN DETAIL WITH TRAP
P401 NOT TO SCALE



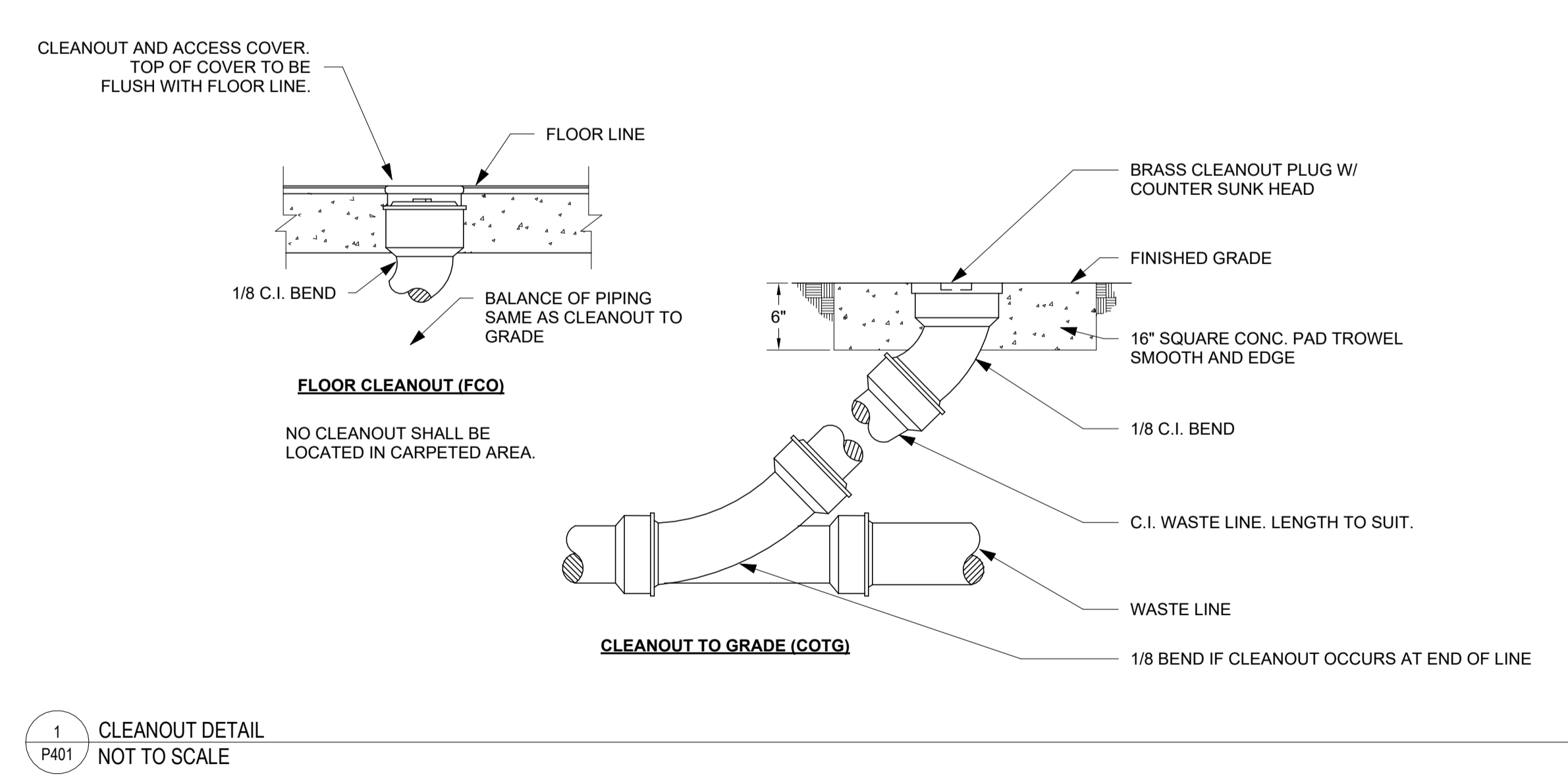
4 WATER HEATER PIPING DETAIL - SINGLE W/RECIRCULATION
P401 NOT TO SCALE



3 TYPICAL PIPE UNDER SLAB DETAIL
P401 NOT TO SCALE



2 TYPICAL DRAIN PIPING DETAIL
P401 NOT TO SCALE



1 CLEANOUT DETAIL
P401 NOT TO SCALE