		LEGEND & ABBREV
ABBREVIATION	SYMBOL	DESCRIPTION
W, S, D	S	SANITARY WASTE, SOIL & DRAIN
V		VENT - SANITARY
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER (110 ° F)
HWR		DOMESTIC HOT WATER RETURN
GV		GATE VALVE
GLV		GLOBE VALVE
BV		BALL VALVE
CV		CHECK VALVE
BLV	——————————————————————————————————————	BUTTERFLY VALVE
STR		STRAINER
	<u> </u>	THERMOMETER
	<u> </u>	PRESSURE GAUGE
		UNION
WHA	<u> </u>	WATER HAMMER ARRESTOR 'SIZE'
RV	₽	PRESSURE OR TEMPERATURE RELIEF VALVE
CO		CLEANOUT
FC0	®	FLOOR CLEANOUT
GCO	——	GRADE CLEANOUT
wco		WALL CLEANOUT
		P-TRAP
FD	0	FLOOR DRAIN 'TYPE'
RD	(Ô;	ROOF DRAIN 'TYPE'
AD	O	AREA DRAIN 'TYPE'

VIATIONS	
ABBREVIATION	DESCRIPTION
AB	ABOVE
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
A/S	AT STRUCTURE
BFP	BACKFLOW PREVENTER
B/F	BELOW FLOOR
CLG	CEILING
<u>E</u>	CENTER LINE
CONN	CONNECT(ION)
CONT	CONTINUATION
DN	DOWN
DWGS	DRAWINGS
ELEC	ELECTRICAL
EL	ELEVATION
EXP	EXPANSION
FIN	FINISHED
FU	FIXTURE UNITS
FL	FLOOR
HVAC	HEATING, VENTILATION & AIR CONDITIONING
НВ	HOSE BIBB
IE	INVERT ELEVATION
L	LEADER
MTD	MOUNTED
SAN	SANITARY
S	SOIL
TYP	TYPICAL
U/G	UNDERGROUND
VTR	VENT THRU ROOF
NFWH	NON-FREEZE WALL HYDRANT
W	WASTE

	PLUMBING F	TXTUF	RES			
SPEC.			MINIMUM INDIVIDUAL CONNECTION			REMARKS
TYPE	FIXTURE	COLD	НОТ	VENT	WASTE	REMHRKS
P-1	WATER CLOSET	1/2"			4"	18" TO RIM ①
P-3	LAVATORY	1/2"	1/2"		11/4"	34" TO RIM ①
P-4	MOP SINK	3/4"	3/4"	****	3"	FLOOR MOUNT
P-4A	LAUNDRY MOP SINK	1/2"	1/2"		1½"	FREESTANDING
P-5	ELECTRIC WATER COOLER	1/2"	aura 1000	was with about	1½"	34" TO BUBBLER ①
P-6	SINK	1/2"	1/2"		1½"	COUNTERTOP ①
P-6*	LAB SINK	1/2"	1/2"	MAN AND AND	1½"	2
P-7	SHOWER	1/2"	1/2"	10/40 40/00 40/40	2"	13
P-8	EMERGENCY SHOWER	11/2"	1"		sound sound state	4
P-9	ICE MAKER CONNECTION BOX	1/2"	Annual Maries Maries	POR 1950 1960	NAME AND ADDRESS OF THE PARTY O	36" AFF

- 1 FIXTURE, TRIM AND INSTALLATION SHALL COMPLY TO ADA REQUIREMENTS.
- 2) FIXTURE AND TRIM PROVIDED BY OTHERS. CONNECT AS REQUIRED.
- 3 SHOWER STALL BY OTHERS. PROVIDE FLOOR DRAIN AND TRIM.
- 4 EMERGENCY SHOWER BY OTHERS, PROVIDE TEMPERING VALVE AND CONNECT AS REQUIRED.

GENERAL NOTES:

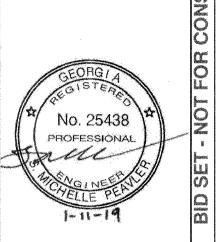
- 1. ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
- 2. WALL HYDRANTS SHALL BE MOUNTED 1'-6" ABOVE GRADE, UNLESS NOTED OTHERWISE.
- 3. HOSE BIBBS SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- 4. COORDINATE ALL WORK WITH OTHER TRADES.

PUMPS		
PUMP NUMBER	HWC-1	SP-1
SPEC. TYPE		
SERVICE	DOM. HOT WATER	SUMP PUMP
LOCATION	MECH. ROOM	ELEV. PIT
CAPACITY, GPM	2	30
DISCHARGE HEAD, FT.	10	25
SUCTION PRESS., FT.		
FLUID TEMP.,°F.	120	
RPM	NO ME NO	
HP	1/12	1/2
CONTROLLER	AQUASTAT	FLOAT SWITCH
ELECTRICAL CHARACTERISTICS	SEE ELEC. DWGS.	SEE ELEC. DWGS.
REMARKS		1

1) SUMP PUMP SHALL BE LIBERTY PUMPS SUMP PUMP WITH OIL MONITOR AND ALARM MODEL ELV280 OR EQUAL.

WATER HEATERS	- ELECTRIC	
HEATER NUMBER	WH-1	WH-2
SPEC. TYPE		une date que
LOCATION	MECH ROOM	BELT PRESS BLD
STORAGE, GALLONS	119	119
RECOVERY, GPH ①	105	105
ENTERING WATER TEMPERATURE,°F.	50	50
LEAVING WATER TEMPERATURE,°F.	120	120
INPUT, KW	18	18
ELECTRICAL CHARACTERISTICS	48ØV, 3PH	48ØV, 3PH
REMARKS	2	2

- 1) AT 70 DEGREE RISE
- 2 WATER HEATER SHALL BE A.O. SMITH DRE-120-18 OR EQUAL.



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CLAMATION FACILITY

Savannahga.gov

N WATER RECLAMAT

J-26963.0000 JANUARY 15, 2019

JOB NO: J-26963.0000
DATE: JANUARY 15, 2019
DRAWN: JPG
DESIGNED: JPG
REVIEWED: MP
APPROVED: JM
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P00.1

PLUMBING SPECIFICATIONS

CODES

THE PLUMBING INSTALLATION AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING: INTERNATIONAL PLUMBING CODE, 2012 EDITION WITH GEORGIA AMENDMENTS.

TESTING PIPE SYSTEMS

- GENERAL, CONCEALED PIPING AND INSULATED PIPING SHALL BE TESTED IN PLACE BEFORE CONCEALING OR COVERING. TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE. PIPING LOCATED UNDERGROUND SHALL BE TESTED BEFORE BACKFILLING. EQUIPMENT, MATERIALS AND INSTRUMENTS FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
- PLUMBING SYSTEMS SANITARY WASTE AND VENT PIPING. THE PIPING SHALL BE TESTED WITH
 WATER BEFORE INSTALLING FIXTURES. WATER TESTS SHALL BE APPLIED TO
 THE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS
 APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE
 CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILED
 WITH WATER AND TESTED WITH AT LEAST THE HIBBER TO FETTHE INFO TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FT. OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPERMOST 10 FT. OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FT. HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST FOR AT LEAST 2 HOURS BEFORE THE INSPECTION STARTS. THE SYSTEM SHALL BE
 - TIGHT AT ALL JOINTS. WATER PIPING. UPON COMPLETION OF THE ROUGH-IN AND BEFORE SETTING FIXTURES. THE ENTIRE DOMESTIC COLD WATER, HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEMS SHALL BE TESTED AT HYDROSTATIC PRESSURE OF 100 PSIG AND PROVED TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION. THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

DOMESTIC WATER SYSTEM

- PROVIDE COMPLETE SYSTEMS OF COLD AND HOT WATER PIPING AND ACCESSORIES SO THAT EVERY FIXTURE AND PIECE OF WATER USING EQUIPMENT IN THIS AREA OF THE BUILDING WILL BE FURNISHED WITH A WATER SUPPLY.
- EXTEND THE DOMESTIC COLD AND HOT WATER PIPING AND CONNECT TO THE EXISTING PIPING, AS SHOWN ON THE DRAWINGS.
- PIPE AND FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED ON
- THE SERVICES INDICATED.

 TYPE "L" HARD COPPER TUBING, FED. SPEC. NO. WW-T-799, WITH

 SOLDERED JOINTS AND WROUGHT COPPER SOCKET FITTINGS FOR ALL WATER
- SOLDER JOINTS (FOR TYPE 'L' COPPER TUBING) SHALL BE MADE USING A 95-5 TIN-ANTIMONY SOLDER WITH A COMPATIBLE FLUX. 4. PROPRESS SYSTEM IS APPROVED FOR USE.
- DISINFECTION

 1. ALL DOMESTIC WATER SERVICE AND SUPPLY PIPING INSTALLED UNDER THIS DIVISION SHALL BE DISINFECTED WITH CHLORINE BEFORE IT IS PLACED
- INTO OPERATION. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120 AND SHALL BE INTRODUCED TO THE SYSTEM BY EXPERIENCED OPERATORS ONLY. THE CHLORINE SOLUTION APPLIED TO THE PIPING SECTIONS OR SYSTEM SHALL CONTAIN AT LEAST FIFTY PARTS PER MILLION OF AVAILABLE CHLORINE AND SHALL REMAIN IN THE SECTIONS OR SYSTEM FOR A PERIOD OF NOT LESS THAN SIXTEEN (16) HOURS. DURING THE DISINFECTION PERIOD ALL VALVES SHALL BE OPENED AND CLOSED AT LEAST FOUR TIMES. AFTER THE DISINFECTION PERIOD THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN TWO-TENTHS - (0.2) - PARTS PER MILLION. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT CERTIFICATION THAT THE SYSTEM WAS DISINFECTED.

SANITARY, WASTE, AND VENT SYSTEM

- PROVIDE A COMPLETE SYSTEM OF SANITARY, WASTE, AND VENT PIPING AS SHOWN ON THE DRAWINGS.
- PIPE FITTINGS AND JOINTS

 1. PIPE FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED FOR THE SERVICES INDICATED. SCHEDULE 40 PRESSURE RATED PVC PIPE AND DWV FITTINGS WITH SOLVENT GLUED JOINTS FOR ALL SANITARY, WASTE AND VENT PIPING.
 SOLVENT GLUED JOINTS SHALL BE MADE WITH PRIMER AND GLUE ACCORDING
- TO THE MANUFACTURER'S REQUIREMENTS.
- 1. HORIZONTAL SOIL AND WASTE PIPING 2-1/2 INCHES IN SIZE AND SMALLER SHALL BE SLOPED AT A MINIMUM OF 1/4 INCH PER FOOT. HORIZONTAL SOIL AND WASTE PIPING 3 INCHES IN SIZE AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/8 INCH PER FOOT.
 - HORIZONTAL VENT BRANCHES SHALL BE KEPT ABOVE THE HIGHEST FIXTURE SERVED BY THE VENT BRANCH IN ORDER TO PRECLUDE THE POSSIBILITY OF VENTS BEING USED AS WASTE PIPES. HORIZONTAL VENT BRANCHES SHALL BE SLOPED TO PREVENT THE ACCUMULATION OF WATER OR SCALE THEREIN.
 - ON SOIL. WASTE AND VENT PIPING CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS AND CHANGES IN PIPE DIRECTION SHALL BE MADE
 - WITH FITTINGS. NO BUSHINGS WILL BE ALLOWED.
 DURING CONSTRUCTION ALL PIPE OPENINGS. NOT BEING WORKED ON. SHALL BE PLUGGED OR CAPPED TO PREVENT FOREIGN OBJECTS FROM ENTERING

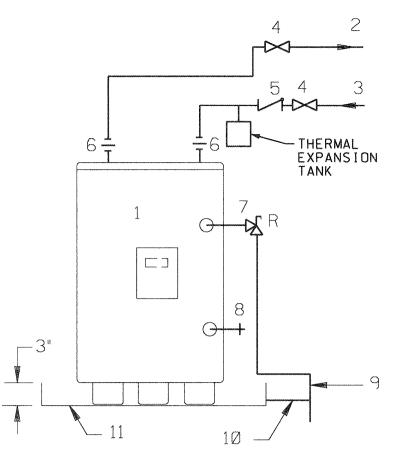
INSULATION

A. ALL WATER PIPING SHALL BE INSULATED WITH FIBERGLASS JACKETED PIPE INSULATION.

PLUMBING FIXTURES

- A. WATER CLOSET P-1 FIXTURE KOHLER K-3713-0
- BEMIS B1655SSC000 SEAT
- B. LAVATORY P-3 FIXTURE KOHLER K-2030 FAUCET KOHLER K-15199 PROFLO PFHGD DRAIN P-TRAP PROFLO PF8872
- SUPPLY VALVES AND RISERS BRASSCRAFT P-TRAP INSULATION KIT PROFLO PF203WH CHAIR CARRIER J.R.SMITH C. MOP SINK P-4
- FIXTURE FIAT MSB3624 FAUCET FIAT 830-AA
- FIAT 832-AA
- D. LAUNDRY SINK P-4A FIXTURE FIAT TAT1
- E. ELECTRIC WATER COOLER P-5
- FIXTURE ELKAY EZS8C PROFLO PF39400B P-TRAP SUPPLY VALVES AND RISERS BRASSCRAFT CHAIR CARRIER J.R. SMITH

- F. SINK P-6 FIXTURE ELKAY LRAD222265 FAUCET LK1001CR ELKAY CRUMB CUP DRAIN ELKAY P-TRAP PROFLO SUPPL IERS BRASSCRAFT
- G. SHOWER P-7 DRAIN - TYPE 'A' FLOOR DRAIN SHOWER VALVE AND TRIM SPEAKMAN SM-3040
- H. EMERGENCY SHOWER FIXTURE BY OTHERS
- MIXING VALVE SPEAKMAN SE-350
- I. ICE MAKER BOX P-9 FIXTURE SIOUX CHIEF 696-1010MF
- J. FLOOR DRAIN FD'A' J.R. SMITH 2010
- K. FLOOR DRAIN FD'B' J.R. SMITH 2010-A-B W/3591
- J.R. SMITH S5509QTSAP
- M. WATER HEATER WH-1
- A.O. SMITH DRE-120-18 N. SUMP PUMP SP-1
- LIBERTY PUMP ELV-280
- O. CIRCULATION PUMP HWC-1 TACO "OO" SERIES



1. WATER HEATER 2. HOT WATER TO SYSTEM 3. COLD WATER SUPPLY 4. SHUT-OFF VALVE 5. CHECK VALVE 6. UNION 7. PRESSURE & TEMPERATURE RELIEF VALVE 8. DRAIN VALVE 9. RELIEF VALVE DISCHARGE PIPED FULL SIZE TO FLOOR DRAIN 10. DRIP PAN DRAIN 11. DRIP PAN (22 GAUGE GALVANIZED STEEL)



-- TRAP PRIMER

VALVE

1/2" MIN.

1/2" MIN.

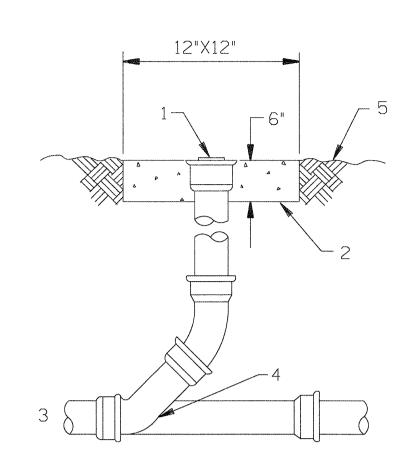
NOT TO SCALE

FLOOR DRAIN TRAP PRIMER

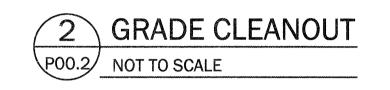
IF UNDERGROUND,

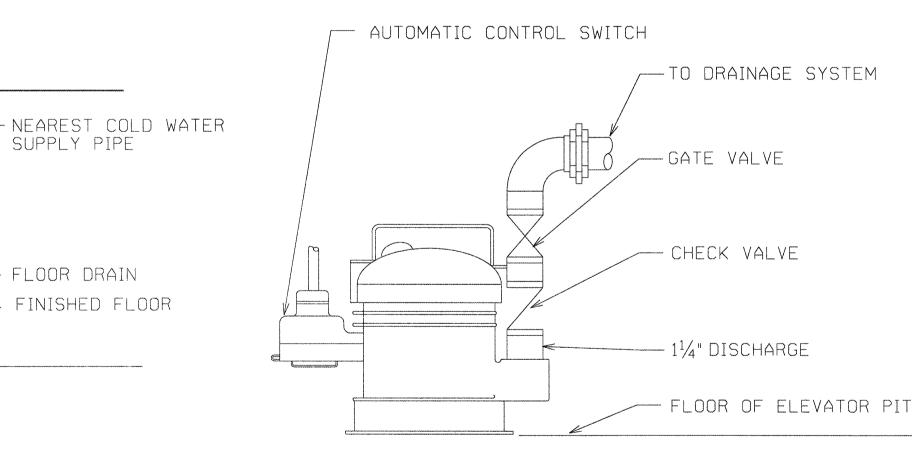
JOINTS UNDERGROUND

RUN WITH NO

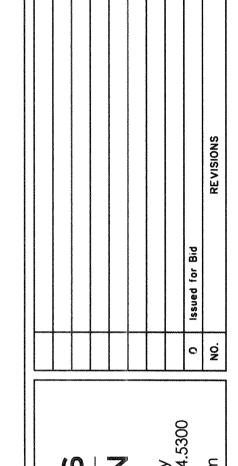


1. CLEANOUT 2. CONCRETE PAD 3. SANITARY OR STORM PIPE 4.1/8 BEND IF C.O. OCCURS AT END OF LINE 5. FINISHED GRADE





SUMP PUMP DETAIL SCHEMATIC ONLY



No. 25438

PROFESSIONAL

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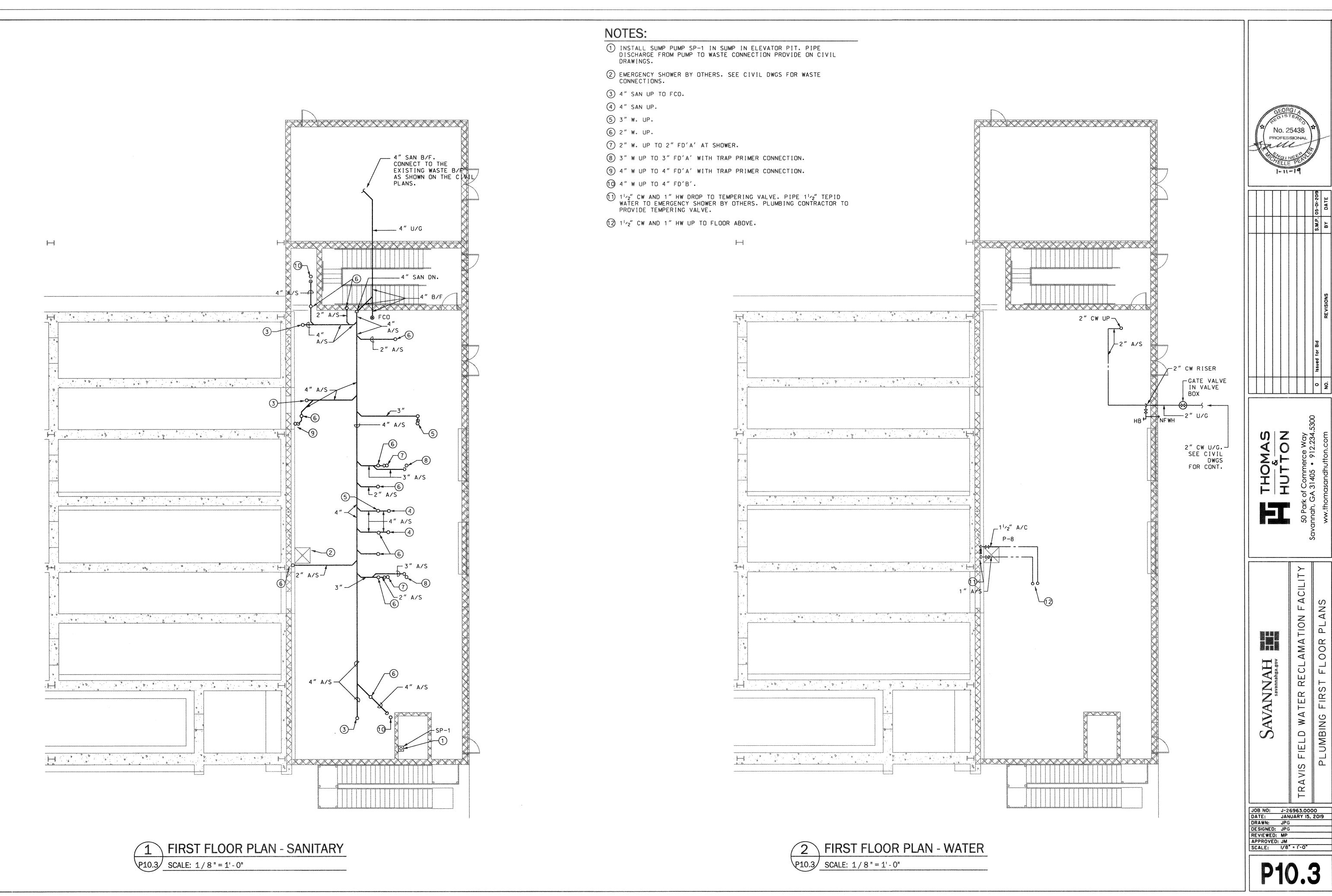
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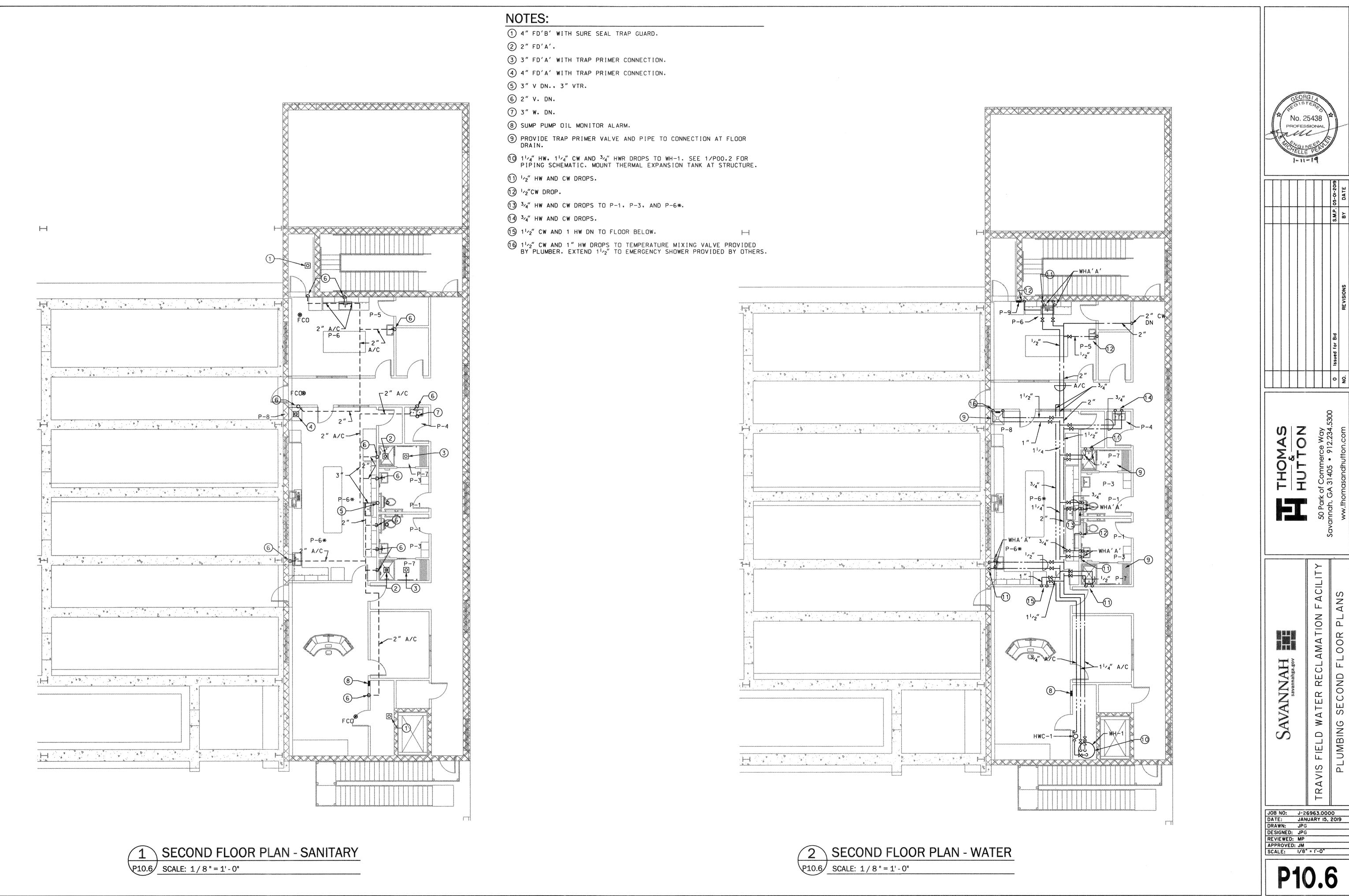
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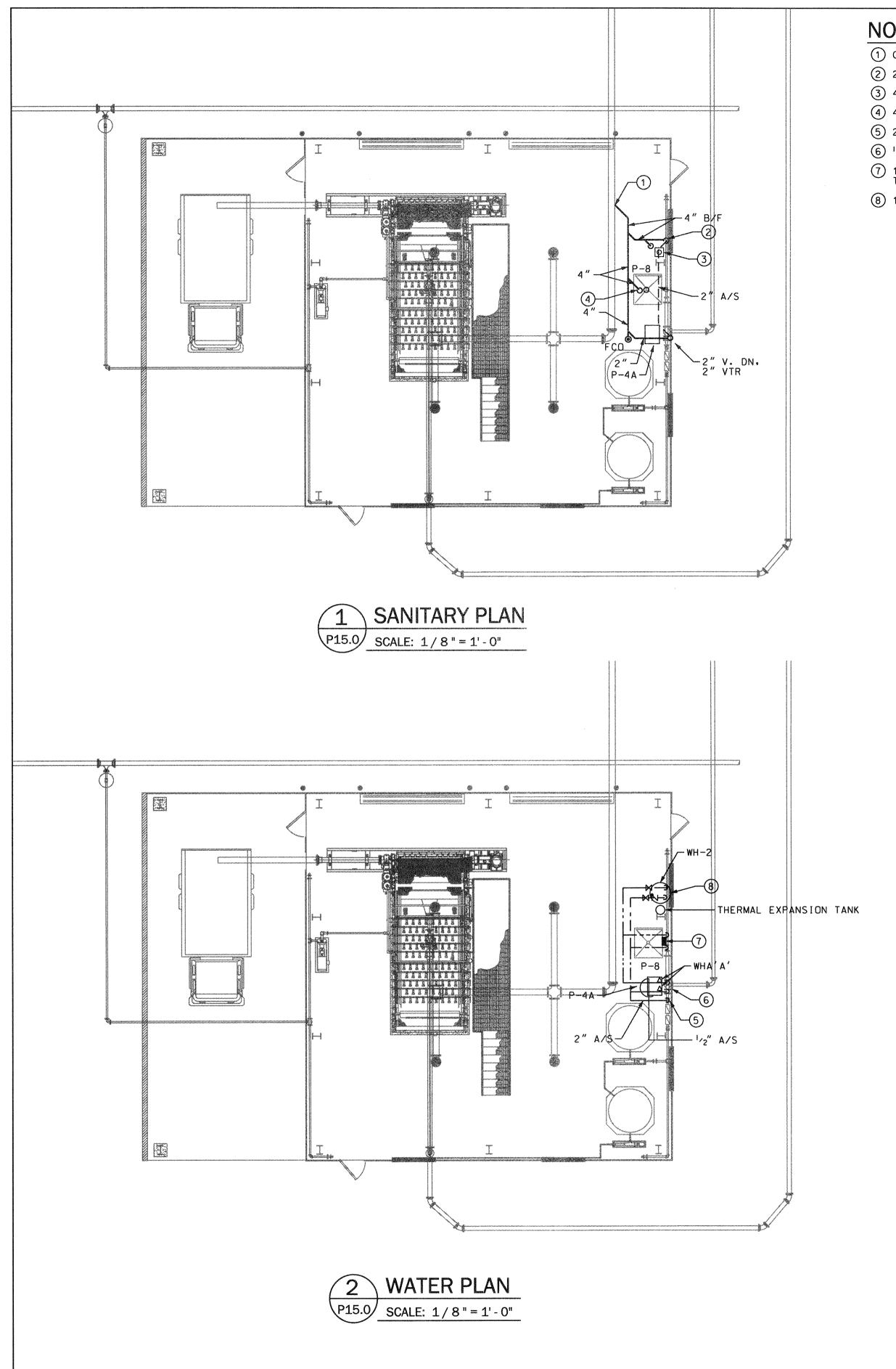
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FIELD WATER RECLAMATION FACILITY
.UMBING SECOND FLOOR PLANS



NOTES:

1 CONNECT TO EXISTING WASTE PIPING B/F. SEE CIVIL DWGS.

② 2" V. DN.

3 4" FD'B' WITH SURESEAL TRAP GUARD.

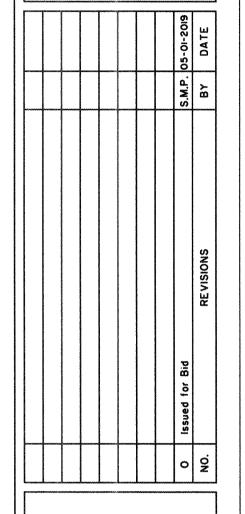
4 4" WASTE UP TO CONNECTION AT P-8.

(5) 2" CW DN. CONNECT TO WATER PIPING SHOWN ON CIVIL DWGS.

6 1/2" HW AND CW DROPS.

7 11/2" CW AND 1" HW DROPS TO TEMPERING VALVE AT P-8. EXTEND 11/2" TEPID WATER TO EMERGENCY SHOWER BY OTHERS.

8 1" HW AND CW DROPS TO WH-2. SEE 1/POO.2 FOR PIPING SCHEMATIC.



THOMAS HUTTON

WATER RECLAMATION FACILITY TERING BUILDING PLUMB PLAN

SAVANNAH TRAVIS FIELD V SLUDGE DEWA⁻

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