

LEGEND					
APPARATUS		PIPING		PIPING	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ELECTRIC WATER HEATER	—AV—	ACID VENT		DIRECTION OF FLOW
	MISCELLANEOUS EQUIPMENT	—AW—	ACID WASTE		STRAINER
	PUMP	—A—	COMPRESSED AIR		VENT THRU ROOF
	SANITARY RISER NO. 1	—C—	CLEANOUT		CAPPED PIPE OR PLUG FOR FUTURE CONNECTION
	WATER RISER NO. 1	—CW—	COLD WATER		ROOF DRAIN
	SECTION DESIGNATION UPPER-SECTION DESIGNATION LOWER-SECTION DRAWING NUMBER	—D—	DRAIN		EMERGENCY ROOF DRAIN
	DETAIL DESIGNATION UPPER-DETAIL DESIGNATION LOWER-DETAIL DRAWING NUMBER		FIRE DEPARTMENT SIAMESE CONNECTION		FLOOR DRAIN OR AREA DRAIN
	SCHEDULED EQUIPMENT DESIGNATION UPPER-EQUIPMENT DESIGNATION LOWER-EQUIPMENT NUMBER		FIRE HYDRANT		FLOOR CLEANOUT
		—G—	GAS COCK		CLEANOUT
		—G—	GAS-LOW PRESSURE		WALL CLEANOUT
		—H—	GAS STOP		HOSE BIBB, NON-FREEZE WALL HYDRANT
		—HW—	HOT WATER		PRESSURE GAUGE W/ GAUGE COCK
		—HWC—	HOT WATER RETURN (CIRCULATING)		WATER HAMMER ARRESTOR — (LETTER INDICATES "PDI" SIZE)
		—LA—	LABORATORY COMPRESSED AIR		REDUCED PRESSURE BACKFLOW PREVENTER
		—LV—	LABORATORY VACUUM	—F—	FIRE WATER SUPPLY
		—LOX—	LIQUID OXYGEN	—FS—	FIRE SPRINKLER PIPING (WATER)
		—MA—	MEDICAL COMPRESSED AIR		SUPERVISORY TAMPER SWITCH U.L. LISTED
		—MV—	MEDICAL VACUUM		FIRE DEPT. VALVE (HOSE VALVE)
		—MG—	MEDIUM PRESSURE GAS		U.L. CHECK VALVE W/ AUTO-BALL DRIP
		—O—	OXYGEN		BACKWATER VALVE
		—RW—	RAINWATER (STORM) ABOVE FLOOR OR GRADE		WATER MOTOR ALARM (GONG)
		—RW—	RAINWATER (STORM) BELOW FLOOR OR GRADE		SUPERVISORY FLOW SWITCH U.L. LISTED
		—RW—	SOIL OR WASTE ABOVE FLOOR OR GRADE		BALL VALVE
		—RW—	SOIL OR WASTE BELOW FLOOR OR GRADE		GATE VALVE
		—V—	VENT PIPE		GLOBE VALVE
					UNION
					PRESSURE REDUCING VALVE
					CHECK VALVE (NON-SLAM)
					PLUG VALVE
					PRESSURE GAUGE W/ GAUGE COCK AND SNUBBER
					ASME HIGH PRESSURE RELIEF VALVE
					FLEXIBLE CONNECTION

GENERAL NOTES:

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLBG/FP SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO, ANY ITEMS OR LABOR REQUIRED FOR COMPLETE PLUMBING/FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS AND SUBMITTAL DATA.
- ALL MATERIAL SHALL FIT THE SPACE AVAILABLE, VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE LOCATION OF PLUMBING/FIRE PROTECTION PIPING WITH DUCTWORK, AIR DISTRIBUTION DEVICES, AND ELECTRICAL SYSTEMS FOR PROPER INSTALLATION.
- THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS SHOWN ON THE DRAWINGS. ALL SYSTEMS SHALL BE FINISHED, TESTED, AND ADJUSTED, AND PROVEN TO BE FULLY OPERATIONAL AND USEABLE.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- DO NOT INSTALL PIPING WITHIN 42" HORIZONTALLY OR 36" VERTICALLY OF ELECTRICAL PANELS. WHERE PIPING ROUTING CANNOT COMPLY WITH THIS REQUIREMENT, PROVIDE 8" DEEP GALVANIZED SHEET METAL DRAIN PAN BELOW PIPING SLOPED AWAY FROM ELECTRICAL EQUIPMENT. PIPING SHALL BE LOCATED INSIDE DRAIN PAN.

PLUMBING ABBREVIATIONS			
%	PERCENT	HWS	HOT WATER SUPPLY
A/C	ABOVE CEILING	HZ	HERTZ
AD	ADJUSTABLE	IE	INVERT ELEVATION
ADJ	ADJUSTABLE	IA	INTAKE AIR
AF	ABOVE FINISHED FLOOR	IN	INCHES
AFR	ABOVE FINISHED ROOF	JP	JOCKEY PUMP
AP	ACCESS PANEL	KW	KILOWATT
APPROX	APPROXIMATE	LBS	POUNDS
ARCH	ARCHITECTURAL	LF	LINEAR FEET
ASSY	ASSEMBLY	LG	LENGTH
BC	BALANCING COCK	LRA	LOCKED ROTOR AMPS
BF	BELOW FLOOR	LVG	LEAVING
BLDG	BUILDING	LWT	LEAVING WATER TEMPERATURE
BOD	BOTTOM OF DUCT	MAV	MANUAL AIR VENT
BOP	BOTTOM OF PIPE	MAX	MAXIMUM
BV	BALL VALVE	MCA	MINIMUM CIRCUIT AMPS
BWV	BACKWATER VALVE	MECH	MECHANICAL
CAP	CAPACITY	MIN	MINIMUM
CLG	CELLING	MTD	MOUNTED
CLR	CLEAR	N/A	NOT APPLICABLE
CO	CLEANOUT	NC	NORMALLY CLOSED
CONC	CONCRETE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CONN	CONNECT / CONNECTION	NFWH	NON-FREEZE WALL HYDRANT
CONT	CONTINUATION	NIC	NOT IN CONTRACT
CSP	COMBINATION STAND PIPE	NO	NORMALLY OPEN
CV	CHECK VALVE	NOM	NOMINAL
CW	COLD WATER	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
D	DEGREE FARENHEIT	NPSHR	NET POSITIVE SUCTION HEAD REQUIREMENT
DEG	DEGREE	NPW	NON-POTABLE WATER
DIA	DIAMETER	OC	ON CENTER
DIR	DIRECT	OPER	OPERATING
DISC	DISCONNECT	OPG	OPENING
DIV	DIVISION	PD	PRESSURE DROP
DN	DOWN	POI	PLUMBING AND DRAINAGE INSTITUTE
DS	DOWNSPOUT	PG	PRESSURE GAUGE
DT	DAY TANK	PH	PHASE
DST	DEEP SEAL TRAP	PLBG	PLUMBING
DWG	DRAWING	PRESS	PRESSURE
EA	EACH	PRV	PRESSURE REDUCING VALVE
EFF	EFFICIENCY	PSIA	PRESSURE PER SQUARE INCH ABSOLUTE
ELEC	ELECTRICAL	PSIG	PRESSURE PER SQUARE INCH GAUGE
ENT	ENTERING	RD	ROOF DRAIN
ERD	EMERGENCY ROOF DRAIN	RED	REDUCER
ES	EXPOSED STRUCTURE	REQ'T	REQUIREMENT
EW	ELECTRIC WATER HEATER	RPM	REVOLUTION PER MINUTE
F	FIRE	RP/BFP	REDUCED PRESSURE BACKFLOW PREVENTER
FAV	FRESH AIR VENT	RM	ROOM
FAVTR	FRESH AIR VENT THRU ROOF	RW	RAIN WATER
FAW	FRESH AIR WASTE	S	SANITARY OR SOIL
FO	FLOOR CLEANOUT	SPEC	SPECIFICATION
FD	FLOOR DRAIN (PLMB ONLY)	SO	SQUARE
FDV	FIRE DEPT. VALVE (HOSE VALVE)	SR	SANITARY RISER (PLMB ONLY)
FIN	FINISHED	SS	STAINLESS STEEL
FLA	FULL LOAD AMPS	STD	STANDARD
FLEX	FLEXIBLE	STR	STRAINER
FLR	FLOOR	STRUCT	STRUCTURAL
FM	FACTORY MUTUAL	SV	SOLENOID VALVE
FOP	FUEL OIL PUMP	T&PRV	TEMPERATURE AND PRESSURE RELIEF VALVE
FOS	FUEL OIL SUPPLY	TDH	TOTAL DYNAMIC HEAD
FOR	FUEL OIL RETURN	TEMP	TEMPERATURE
FOV	FUEL OIL VENT	TP	TRAP PRIMER
FP	FIRE PUMP	TYP	TYPICAL
FFM	FEET PER MINUTE	UG	UNDERGROUND
FRP	FIBERGLASS REINFORCED PIPE	UL	UNDERWRITERS LABORATORIES LISTING
FS	FIRE SPRINKLER PIPE (WATER)	UL/CHV	UL CHECK VALVE WITH AUTO-BALL DRIP
FSD	FIRE/SMOKE DAMPER	UNO	UNION UNLESS NOTED OTHERWISE
FT	FEET	V	VENT
GAL	GALLON	VA	VALVE
GAL	GALLON	VB	VACUUM BREAKER
GC	GENERAL CONTRACTOR	VEL	VELOCITY
GLV	GLOBE VALVE	VTR	VENT TO ROOF
GPH	GALLON PER HOUR	W	WITH
GPM	GALLON PER MINUTE	W	WASTE
GR	GRADE	WC	WATER COLUMN
GV	GATE VALVE	WCO	WALL CLEAN OUT
GYP	GYPSONUM	WD	WIDTH
H	HUMIDIFIER	WG	WATER GAUGE
HB	HOSE BIBB	WH	WATER HEATER (PLMB ONLY)
HC	HANDICAPPED	WH	WATER HAMMER ARRESTER
HG	HOOD	WMA	WATER MOTOR ALARM (GONG)
HG	MERCURY	WR	WATER RISER
HP	HORSEPOWER	WT	WEIGHT
HR	HOUR		
HT	HEIGHT		
HW	HOT WATER		
HWC	HOT WATER RECIRCULATING		
HWR	HOT WATER RETURN		

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A TENANT IMPROVEMENT
MELLOW MUSHROOM
16000 STUEBNER AIRLINE ROAD
SUITE G
SPRING, TEXAS
HARRIS COUNTY

Revisions:

No.	Date	Description
1	01.09.2012	FOR PERMIT
-	-	-
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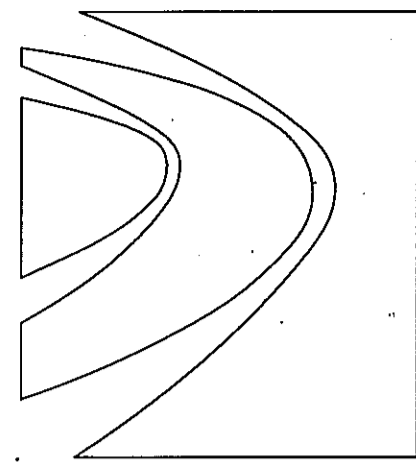
LEGENDS + ABBREVIATIONS

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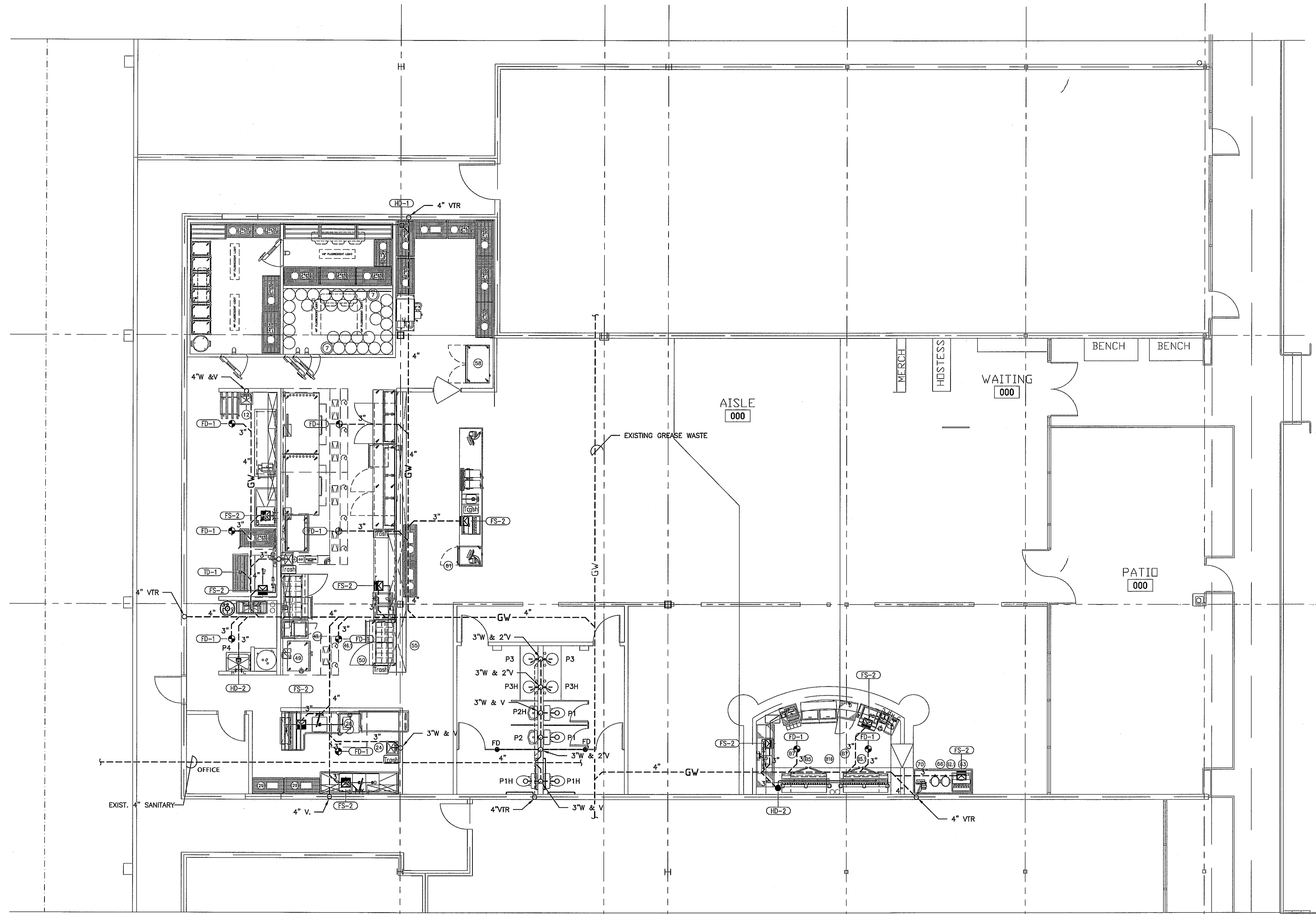
FLOOR PLAN
 SANITARY

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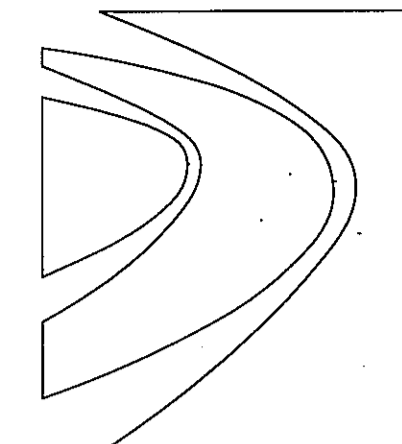
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1 FLOOR PLAN - SANITARY
 M1.1 3/16" = 1'-0"

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**FLOOR PLAN
DOM. WATER
+ GAS**

Drawn

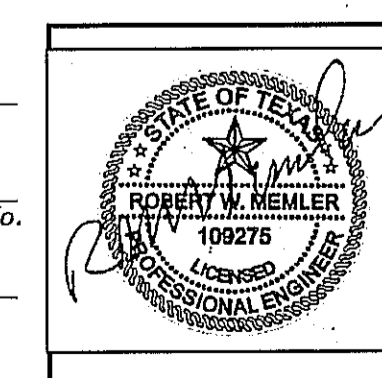
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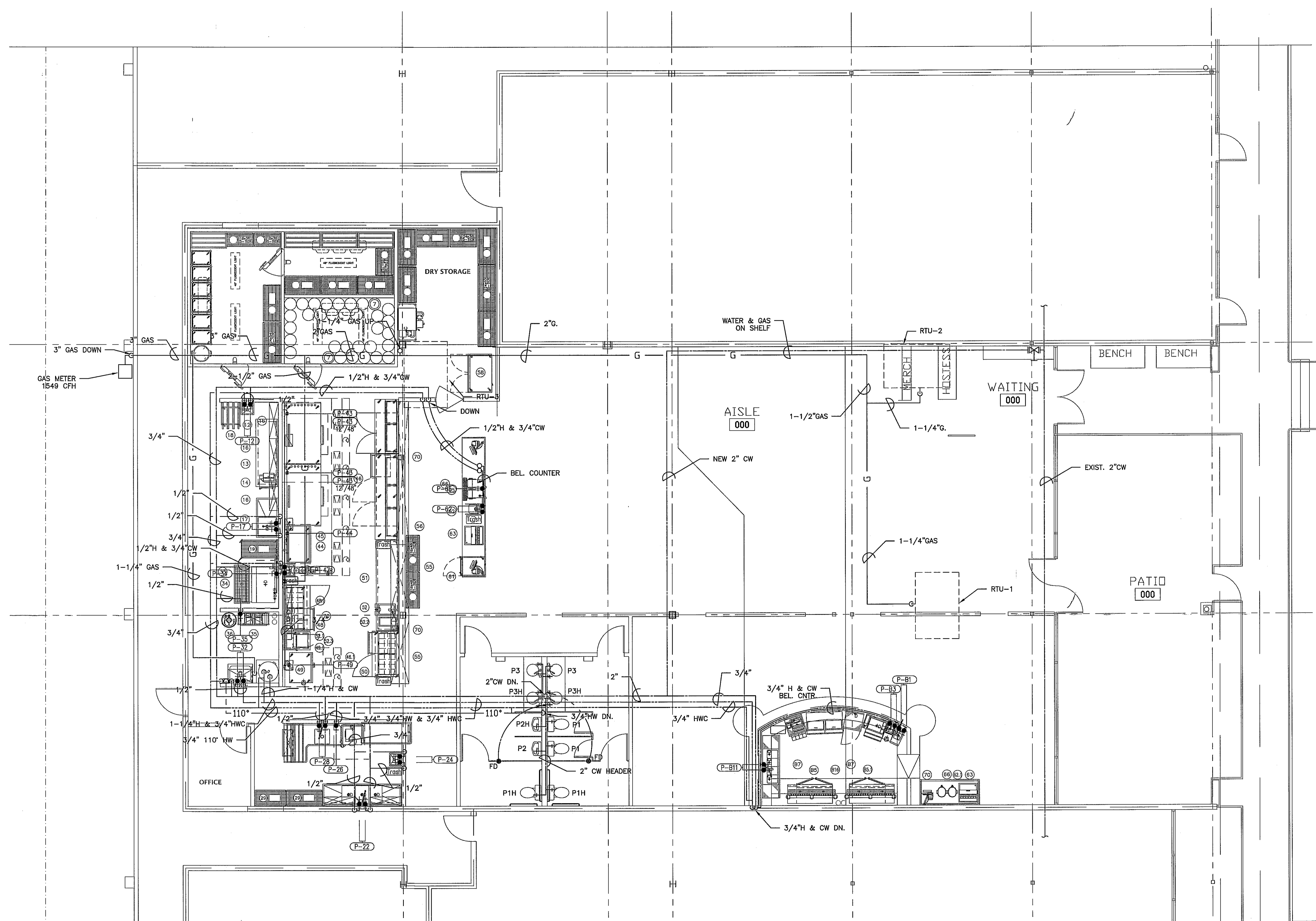


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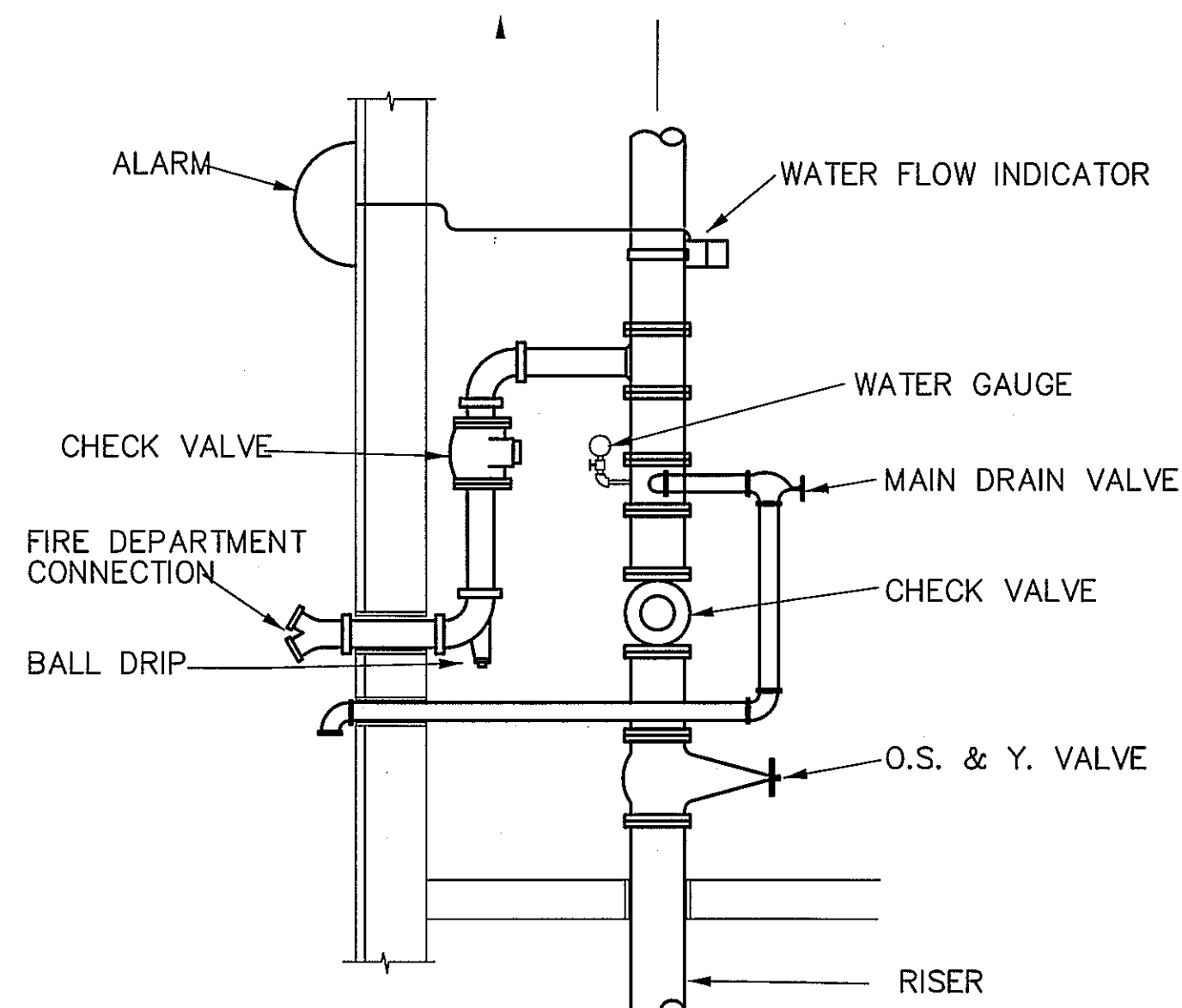
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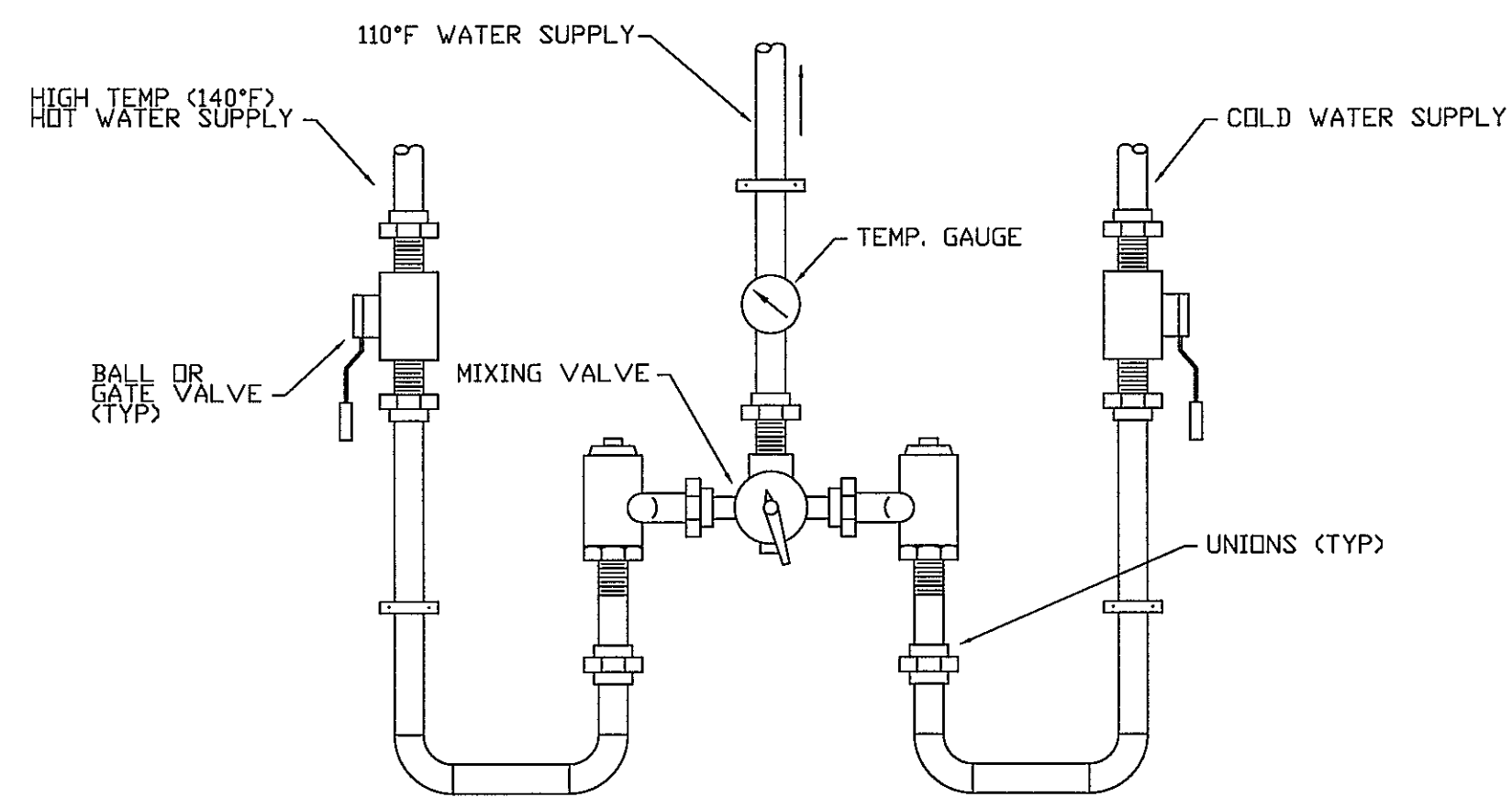
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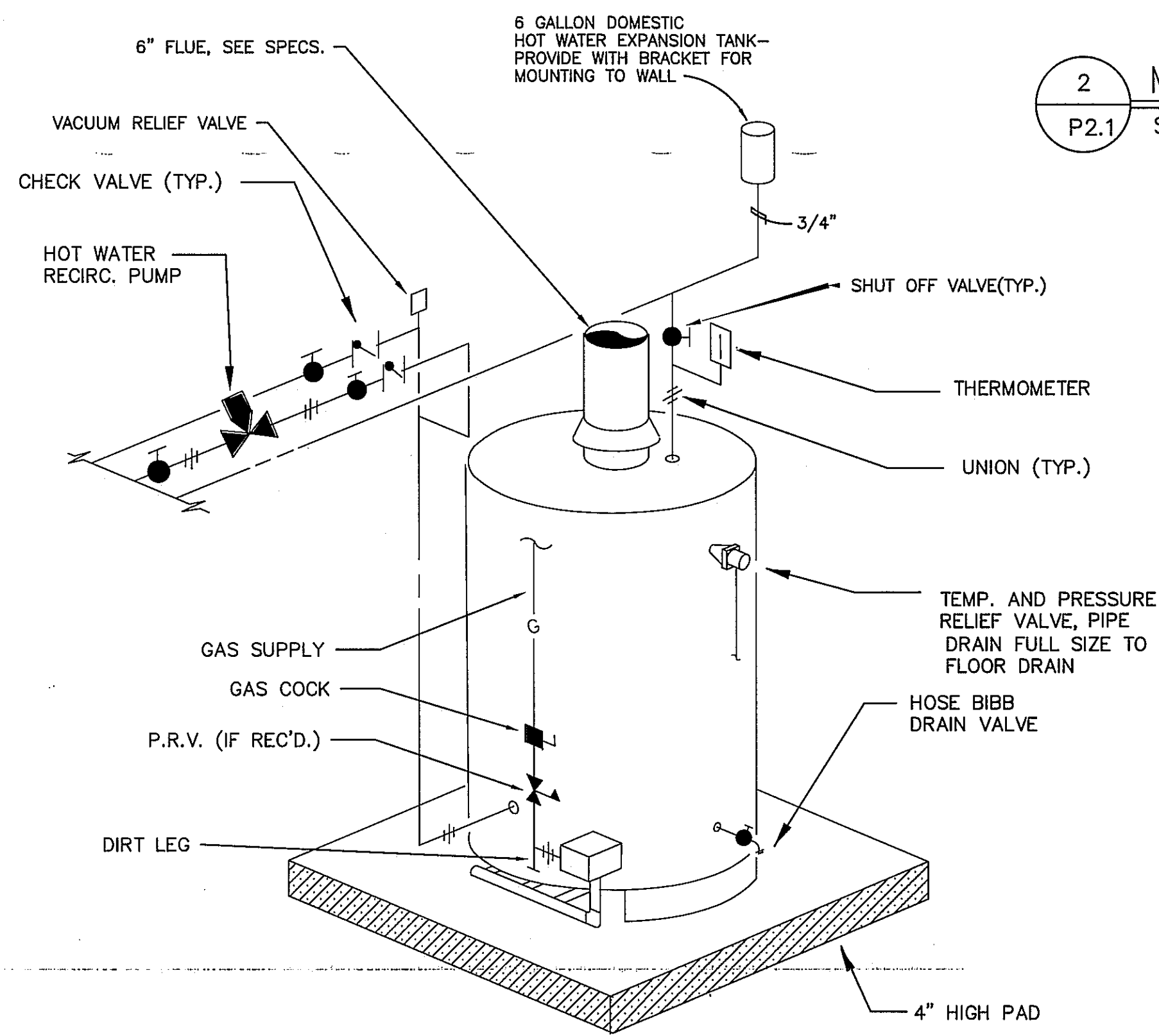
2 ZONE 2 FLOOR PLAN
M21 3/16" = 1'-0"



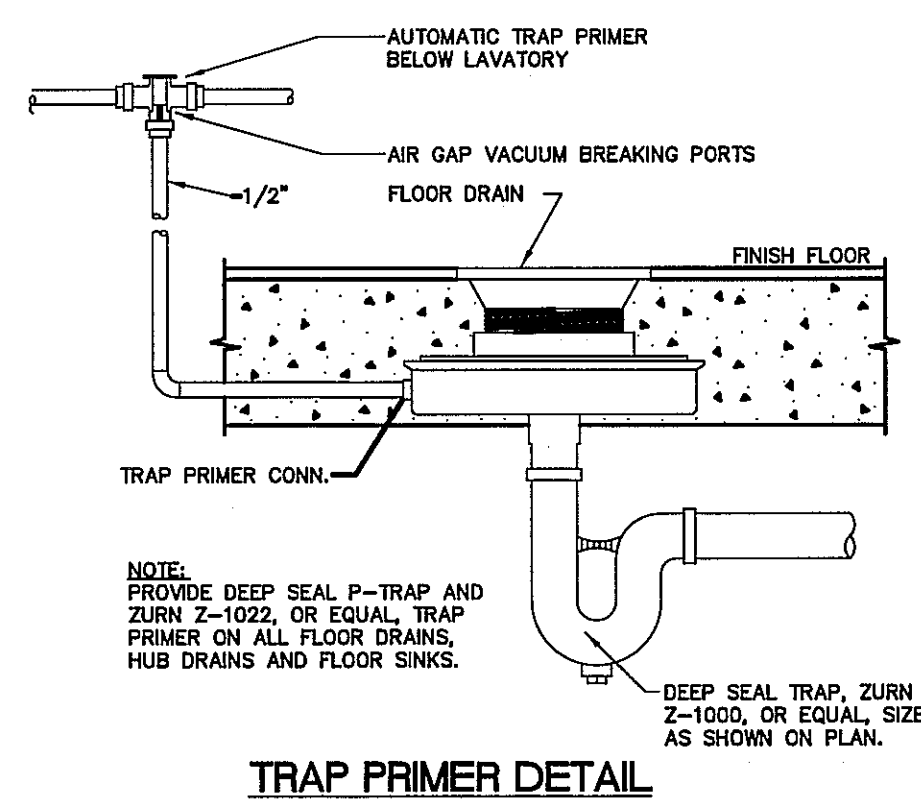
DETAIL - SPRINKLER RISER
NOT TO SCALE



2 MIXING VALVE DETAIL
P2.1 SCALE: NOT TO SCALE



3 WATER HEATER PIPING DIAGRAM
P2.1 SCALE: NOT TO SCALE



NOTE: PROVIDE DEEP SEAL P-TRAP AND ZURN Z-1022, OR EQUAL, TRAP PRIMER ON ALL FLOOR DRAINS, HUB DRAINS AND FLOOR SINKS.

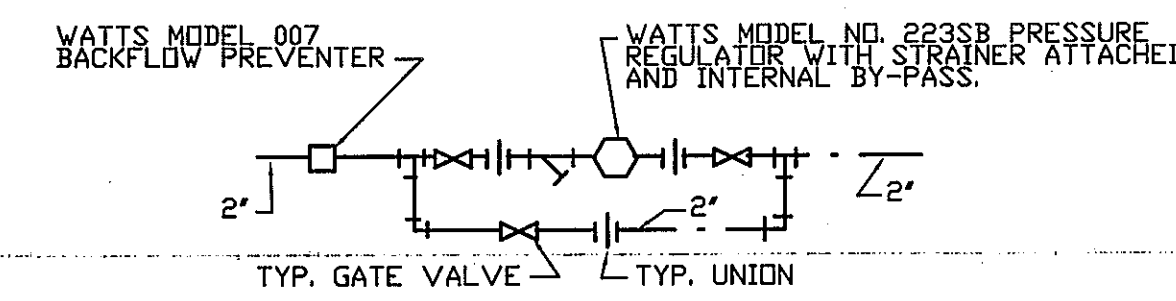
TRAP PRIMER DETAIL

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	S	W	V	CW	HW	REMARKS	MFG'R.	MODEL
P1	WATER CLOSET, FLUSH VALVE	4"		2"	1/2"		SIPHON JET, FLOOR MTD. FLUSH VALVE: SEAT:	KOHLER KOHLER BENEKE	K-4350 K-10673-CP 523
P1H	WATER CLOSET, FLUSH VALVE ADA HEIGHT (18")	4"		2"	1/2"		SIPHON JET, FLOOR MTD. FLUSH VALVE: SEAT:	KOHLER KOHLER BENEKE	K-4368 K-10673-CP 523
P2	URINAL	4"		2"	3/4"		SIPHON JET, FLOOR MTD. FLUSH VALVE:	KOHLER KOHLER	K-4920-T K-10673-CP
P2H	URINAL	4"		2"	3/4"		SIPHON JET, FLOOR MTD. FLUSH VALVE:	KOHLER KOHLER	K-4920-T K-10673-CP
P3	LAVATORY		1-1/4"	2"	1/2"	1/2"	COUNTER W/UNDERMOUNT FAUCET: STOPS: P-TRAP: DRAIN:	KOHLER KOHLER McGUIRE McGUIRE KOHLER OFFSET GRID	K-2827 K-13460 2165 8872 K-13885
P3H	LAVATORY ADA TRIM		1-1/4"	2"	1/2"	1/2"	COUNTER W/UNDERMOUNT FAUCET: STOPS: P-TRAP: DRAIN: ADA TRIM INSULATION	KOHLER KOHLER McGUIRE McGUIRE KOHLER OFFSET GRID EBC	K-2827 K-13460 2165 8872 K-13885 IK & IW7
P4	MOP SINK		1-1/4"	2"	1/2"	1/2"	FLOOR MOUNTED FAUCET:	KOHLER KOHLER	K-6710 K-8928
TD-1	TRENCH DRAIN GRATE	3"					48"x18" - STAINLESS STEEL GRATE	JAY R. SMITH	9870-445-SS
FS	FLOOR SINK	3"					12"x12" - 1/2 GRATE	JAY R. SMITH	9691-12
FD	FLOOR DRAIN	3"					STAINLESS STEEL W/SEDIMENT BUCKET	JAY R. SMITH	9700-B

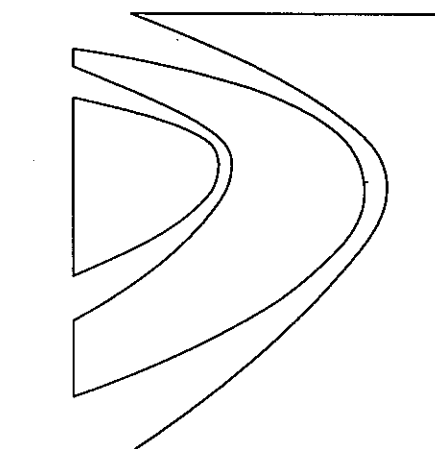
WATER HEATER SCHEDULE						
HEATER NO.	TYPE	STORAGE CAPACITY (GALS.)	INPUT	RECOVERY RISE \ GPH	LOCATION	REMARKS
WH-1	GAS	100	199,000	100/193	KITCHEN	SEE NOTES

1. A.O. SMITH MODEL BTR-198.

GAS LOAD SUMMARY	
ITEM	CFH
PIZZA OVEN (160 EACH)	320
PIZZA OVEN (160 EACH)	320
GRIDDLE (120 EACH)	120
CONVECTION OVEN (50 EACH)	50
(3) ROOF TOP UNITS (180 EACH)	540
WATER HEATER	199
Total	1546



PRESSURE REDUCING STATION DETAIL
NOT TO SCALE



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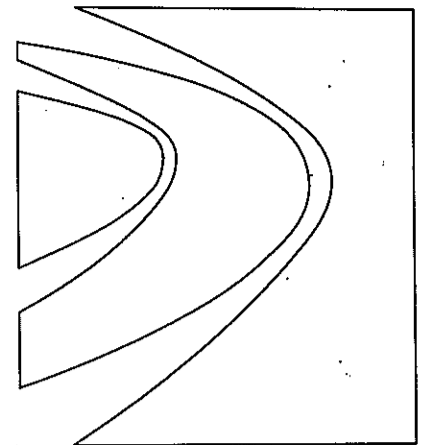
DETAILS + SCHEDULES

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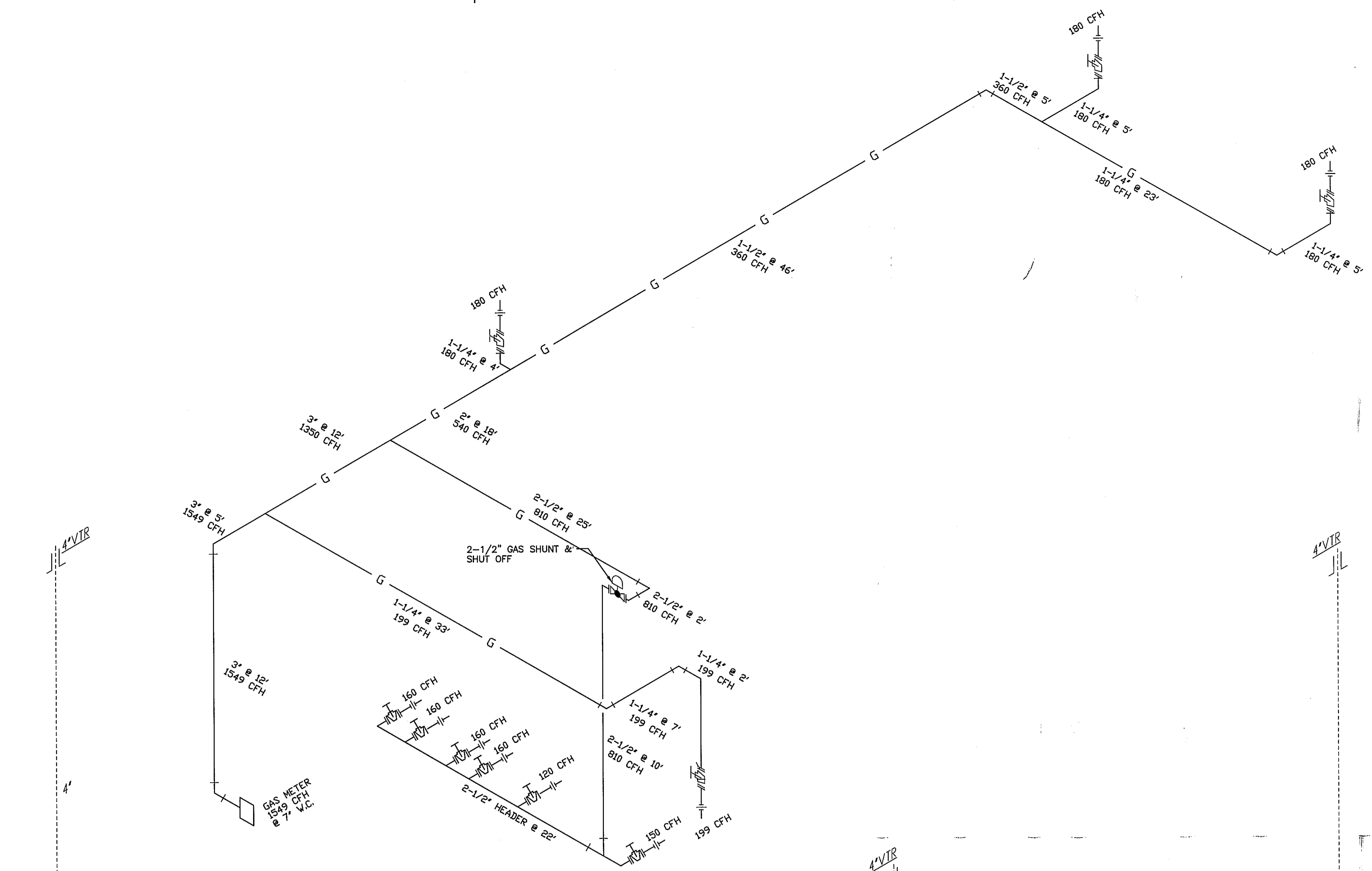
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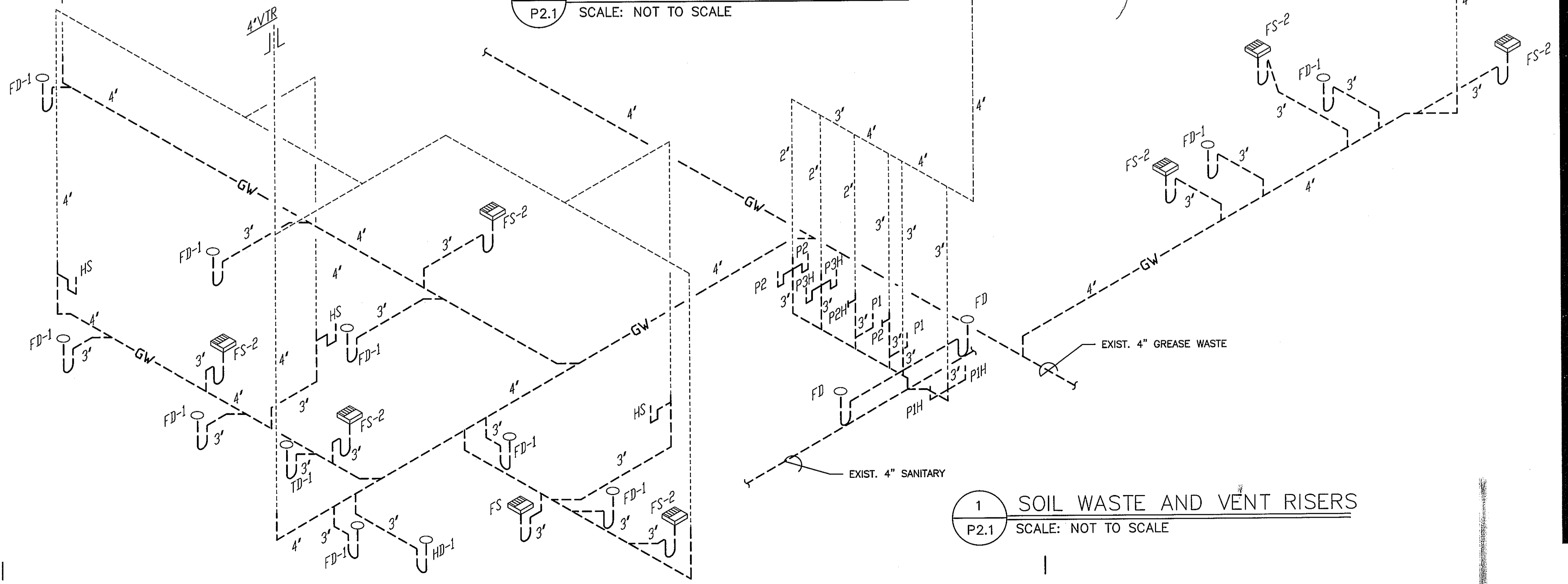
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3 GAS PIPING RISER
P2.1 SCALE: NOT TO SCALE



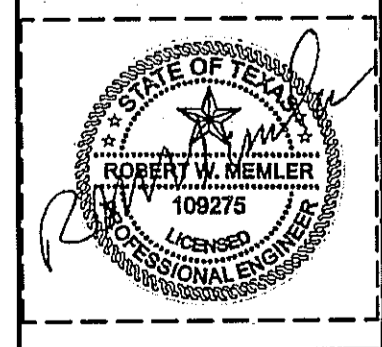
1 SOIL WASTE AND VENT RISERS
P2.1 SCALE: NOT TO SCALE

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WASTE + GAS RISERS

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