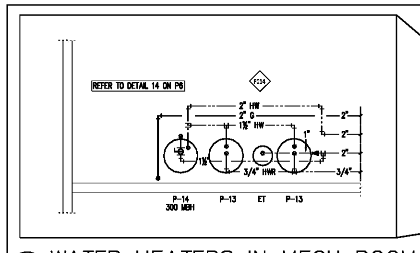
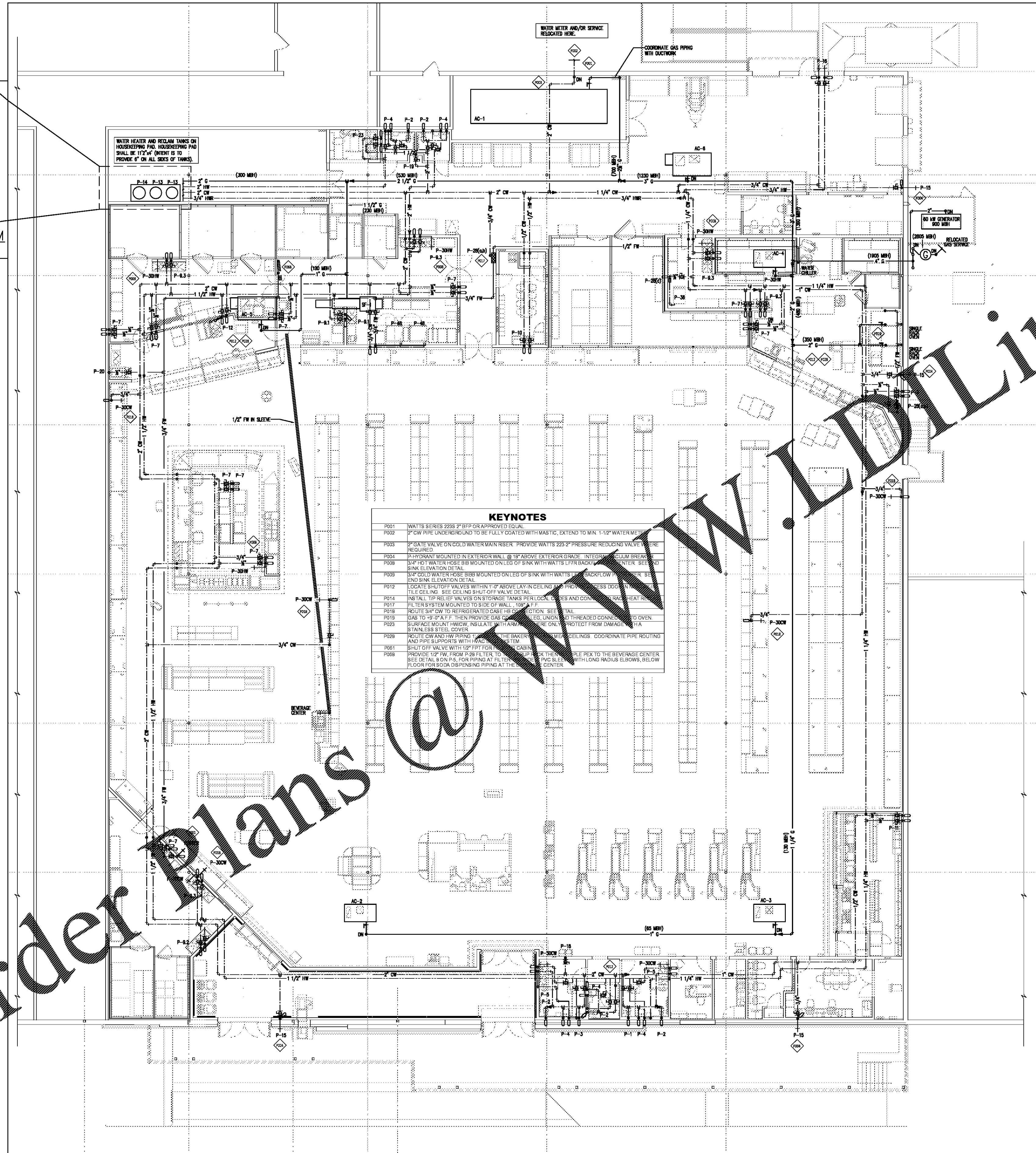


2 / P1 WATER HEATERS IN MECH ROOM
1/4" = 1'-0"



KEYNOTES

P001	WATTS SERIES 223S 2" BFP OR APPROVED EQUAL.
P002	2" CW PIPE UNDERGROUND TO BE FULLY COATED WITH MASTIC, EXTEND TO MIN. 1-1/2" WATER METER
P003	2" GATE VALVE ON COLD WATER MAIN RISER. PROVIDE WATTS 223-2" PRESSURE REDUCING VALVE WHERE REQUIRED.
P004	P-HYDRANT MOUNTED IN EXTERIOR WALL @ 18" ABOVE EXTERIOR GRADE. INTEGRAL VACUUM BREAKER.
P008	3/4" HOT WATER HOSE BIB MOUNTED ON LEG OF SINK WITH WATTS LF7R BACKFLOW PREVENTER. SEE END SINK ELEVATION DETAIL.
P009	3/4" COLD WATER HOSE BIBB MOUNTED ON LEG OF SINK WITH WATTS LF7R BACKFLOW PREVENTER. SEE END SINK ELEVATION DETAIL.
P012	LOCATE SHUTOFF VALVES WITHIN 1'-0" ABOVE LAY-IN CEILING AND PROVIDE ACCESS DOOR IN NON-LAY-IN TILE CEILING. SEE CEILING SHUT-OFF VALVE DETAIL.
P014	INSTALL T/P RELIEF VALVES ON STORAGE TANKS PER LOCAL CODES AND CONNECT TO RACK HEAT RE[illegible]
P017	FILTER SYSTEM MOUNTED TO SIDE OF WALL , 108" A.F.F.
P018	ROUTE 3/4" CW TO REFRIGERATED CASE HB CONNECTION. SEE DETAIL.
P019	GAS TO +9'-0" A.F.F. THEN PROVIDE GAS CO[illegible] LEG, UNION AND THREADED CONNECTION TO OVEN.
P023	SURFACE MOUNT HW/CW, INSULATE WITH ARMA[illegible] HERE ONLY, PROTECT FROM DAMAGE WITH A STAINLESS STEEL COVER.
P028	ROUTE CW AND HW PIPING 1-[illegible] THE BAKERY [illegible] MEAT CEILINGS. COORDINATE PIPE ROUTING AND PIPE SUPPORTS WITH HVAC [illegible] SYSTEM.
P061	SHUT OFF VALVE WITH 1/2" FPT FOR [illegible] CABINET.
P068	PROVIDE 1/2" FW, FROM P-28 FILTER, TO [illegible] RACK THEN [illegible] PLE PEX TO THE BEVERAGE CENTER. SEE DETAIL 8 ON P-5, FOR PIPING AT FILTER [illegible] PVC SLEEVE WITH LONG RADIUS ELBOWS, BELOW FLOOR FOR SODA DISPENSING PIPING AT THE BEVERAGE CENTER.

1 / P-1 WATER AND GAS PLUMBING PLAN
1/8" = 1'-0"

PLUMBING NOTES

1. FURNISH STOPS ON ALL WATER SUPPLIES: CHROME PLATE ESCUTCHEONS AT ALL OPENINGS IN WALL OR FLOOR.
2. ALL WATER LINES TO BE OVERHEAD, CONCEALED, EXCEPT A 2" CW ENTRANCE MAIN RISER AND WHERE NOTED ON PLAN.
3. WHEREVER POSSIBLE LOCATE H.W. AND C.W. VALVES IN SAME ACCESS HOLE.
4. UTILITY SINKS: WASTE ROUGH IN 8" ABOVE FINISHED FLOOR. HOT AND COLD WATER ROUGH IN 12" ABOVE FINISHED FLOOR. SEE SINK DETAILS ON DRAWINGS. ALL RISERS FROM STOP AND SINK FITTINGS TO BE 1/2" HARD COPPER.
5. ALL CW AND HW PIPE CONNECTIONS FROM MAIN DISTRIBUTION LINES TO LAVATORIES, HAND SINKS, AND WORK SINKS SHALL NOT EXCEED 25 FT. IN LENGTH.
6. WATER AND GAS LINE CONNECTIONS TO ALL APPLIANCES SHALL HAVE UNIONS AND SHUT-OFF VALVES.
7. ALL GAS PIPING FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR AND SHALL BE BLACK IRON PIPE W/WELDED JOINTS. ALL PIPING TO RUN OVERHEAD.
8. PLUMBING CONTRACTOR SHALL IDENTIFY THE LOCATION OF VALVES ABOVE TILED CEILINGS WITH A "STENCILED ON" SIGN SEE DETAIL 9/P-5.1.
9. IF NATURAL GAS IS NOT AVAILABLE TO THIS SITE PUBLIX SHALL ARRANGE FOR A 1000 GAL. PROPANE TANK. TANK TO BE INSTALLED BY THE LOCAL GAS COMPANY IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
10. ALL CW AND FW COPPER PIPING TO BE INSULATED WITH ½" ARMACELL OR APPROVED EQUAL.
11. ALL SHUTOFF VALVES SHALL BE ACCESSIBLE.
12. ALL HW, TW & HWR PIPING SHALL BE INSULATED WITH FIBERGLASS WITH A VAPOR BARRIER JACKET PER THE FOLLOWING SCHEDULE:
    1" THICK INSULATION FOR PIPING 1-1/4" AND SMALLER,
    1.5" THICK INSULATION FOR PIPING THAT IS 1-1/2" DIA AND LARGER.
13. LOW PRESSURE (0.25 PSI) GAS LINE SIZING BASED ON: - 2018 GEORGIA STATE MINIMUM STANDARD GAS CODE - TABLE 402.4(2)

PLUMBING DESIGN DATA

1. TOTAL COLD WATER FIXTURE UNITS = 182.3, TOTAL HOT WATER FIXTURE UNITS = 88.3
2. DEMAND GPM FOR FLUSH VALVE = 65
3. PIPE SIZE FOR THIS DEMAND = 2"
4. ESTIMATED GAL./MONTH = 28,000 SQ. FT. X 0.15 GPD X [illegible] = 162,000 GAL/MONTH.

PLUMBING LEGEND - WATER & GAS

— FW —	FILTERED WATER	BFP	BACKFLOW PREVENTER
— CW —	CW-COLD WATER	VB	VACUUM BREAKER
— HW —	HW-HOT WATER	HB	HOSE BIBB
— HWR —	HOT WATER RETURN		BALANCING VALVE
— TW —	TEMPERED WATER		HW AND CW BALL VALVES
— G —	GAS LINE		

GAS LOAD CALCULATIONS

ID	MBH Each	Quantity	MBH Total
AC-1	700	1	700
AC-2	65	1	65
AC-3	65	1	65
AC-4	65	1	65
AC-5	130	1	130
AC-6	130	1	130
GENERATOR	900	1	900
P-14	300	1	300
RACK OVEN	175	2	350
SF-1	100	1	100
			2805

WATER HAMMER ARRESTOR SCHEDULE

PIPE SIZE	FIXTURE UNITS	PDI
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1 1/4"	61-113	D
1 1/2"	114-154	E
2"	155-330	F

WATER HAMMER ARRESTORS SHALL BE PRECISION PLUMBING PRODUCTS MODEL # SC-500A THRU SC-2000F OR APPROVED EQUAL

SUPPLY FIXTURE UNIT CALCULATIONS

Fixture ID	Description	QUAN	SFU per fixture CW	SFU per fixture HW	SFU per fixture Both	SFU total CW	SFU total HW	SFU total Both
Code Table:	IPC							
P-10	Bar sink, public	1	1.5	1.5	2.0	1.5	1.5	2.0
P-12	3 Compartment sink, public	1	3.0	3.0	4.0	3.0	3.0	4.0
P-20	Ice Machine	1	0.5	0.0	0.5	0.5	0.0	0.5
P-30HW	Hose Bibb, HW	4	0.0	3.0	3.0	0.0	12.0	12.0
P-36	Dishwashing machine, public	1	0.0	2.0	2.0	0.0	2.0	2.0
P-48	Combi-Oven	3	1.0	0.0	1.0	3.0	0.0	3.0
Single Rack	Oven	2	0.5	0.0	0.5	1.0	0.0	1.0
P-7	Lavatory, public	10	1.5	1.5	2.0	15.0	15.0	20.0
P-9.1	1 Compartment sink, public	2	1.5	1.5	2.0	3.0	3.0	4.0
P-9.2	3 Compartment sink, public	5	3.0	3.0	4.0	15.0	15.0	20.0
								68.5
						Kitchen Derating Factor:		75%
								51.4
P-1	Water closet, public, flush valve	1	10.0	0.0	10.0	10.0	0.0	10.0
Fogger	Hose Bibb, CW	1	3.0	0.0	3.0	3.0	0.0	3.0
P-11	Lavatory, public	1	1.5	1.5	2.0	1.5	1.5	2.0
P-15	Hose Bibb, CW	4	3.0	0.0	3.0	12.0	0.0	12.0
P-16	Hose Bibb, TW	1	2.5	2.3	3.0	2.5	2.3	3.0
P-18	Drinking fountain	2	0.3	0.0	0.3	0.5	0.0	0.5
P-19	Drinking fountain	1	0.3	0.0	0.3	0.3	0.0	0.3
P-2	Water closet, public, flush valve	5	10.0	0.0	10.0	50.0	0.0	50.0
P-23	Service/Mop sink, public	1	2.3	2.3	3.0	2.5	2.3	3.0
P-3	Urinal, 3/4" flush valve	1	5.0	0.0	5.0	5.0	0.0	5.0
P-30CW	Hose Bibb, CW	8	3.0	0.0	3.0	24.0	0.0	24.0
P-40HW	Hose Bibb, HW	1	0.0	3.0	3.0	0.0	3.0	3.0
Beverage	Soda System	1	0.5	0.0	0.5	0.5	0.0	0.5
P-4	Lavatory, public	5	1.5	1.5	2.0	7.5	7.5	10.0
P-5	Lavatory, public	2	1.5	1.5	2.0	3.0	3.0	4.0
P-7	Lavatory, public	1	1.5	1.5	2.0	1.5	1.5	2.0
P-9.2	2 Compartment sink, public	1	2.3	2.3	3.0	2.3	2.3	3.0
P-9.3	3 Compartment sink, public	1	3.0	3.0	4.0	3.0	3.0	4.0
								139.3
	TOTALS					170.5	77.8	190.6

Plumbing Sheets

Sheet Number	Sheet Name
P-1	WATER AND GAS PLUMBING PLAN
P-2	WATER AND GAS ISOMETRIC
P-3	DWV PLUMBING PLAN
P-4	SANITARY, WASTE & VENT PLUMBING ISOMETRICS
P-5	PLUMBING SCHEDULES AND DETAILS (1 OF 2)
P-6	PLUMBING DETAILS (2 OF 2)
P-7	DRAIN DIMENSION PLAN

This document has been electronically signed and sealed on date shown using Bluebeam and secure GlobalSign USB key.

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WATER AND GAS PLUMBING PLAN
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ROSEWELL ROAD
MARIETTA, GA 30062

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