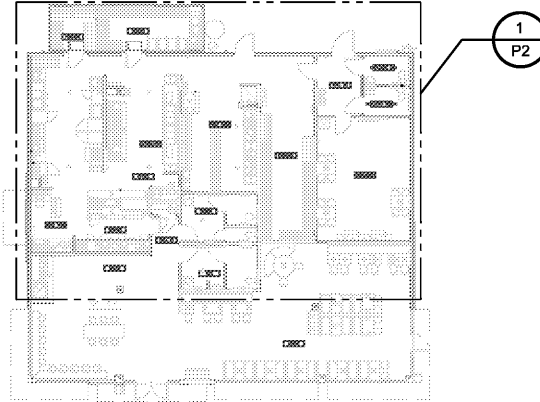


1 ENLARGED PLUMBING PLAN - WATER AND GAS PIPING
SCALE: 1/4" = 1'-0"



2 PLUMBING KEY PLAN - WATER & GAS PIPING
SCALE: 1/16" = 1'-0"

Item	Quantity	Description	GPM value	GPM Calculated
Trap Sink	1		5 GPM each	5
Wash Sink	1		2 GPM each	2
Prep Sink	1		2 GPM each	2
Mop Sink	2		1 GPM each	2
Other equipment				
Other equipment				
Other equipment				
Other equipment				
Other equipment				
Pre-rinse Quantity			2 GPM each	0
Total Gallons per Minute (GPM) Needed:				7.5

REQUIRED DEMAND IS 7.5 GPM. (2) SIMULTANEOUS WATER HEATERS TO DELIVER 7.7 GPM (3.85 GPM EACH)

PLAN NOTES

- TRAP PRIMER VALVE EQUAL TO PRECISION PLUMBING PRODUCTS OREGON-1, WITH 2-LINE DISTRIBUTION MANIFOLD. LOCATE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. ROUTE 1/2" TYPE "L" SOFT COPPER TRAP PRIMER LINES DOWN TO BELOW FLOOR TO CONNECTIONS TO FD-B.
- 1-1/2" AUTOMATIC GAS VALVE EXPOSED 6" BELOW CEILING HEIGHT. PROVIDED BY OWNER INSTALLED BY CONTRACTOR. INTERLOCK WITH HOOD SUPPRESSION SYSTEM. REDUCE FROM 2" AT INLET, AND INCREASE TO 2" AT OUTLET. PROVIDE 2" UNION ON INLET AND OUTLET.
- PROVIDE TEMPERATURE MIXING VALVE, SET AT 110°, ON ALL HANDSINKS AND REST ROOM LAVATORIES. REFER TO DETAIL 6/P4.
- EXISTING DOMESTIC SERVICE IS BEING UPSIZED TO A 2" DOMESTIC WATER SERVICE. REFER TO DETAIL 9/P4. SITE WATER METER AND CONTAINMENT BACKFLOW PREVENTER BY CIVIL.
- 3/4" COLD WATER DOWN IN WALL TO BELOW EQUIPMENT @ +4" AFF.
- RUN 3/4" COLD WATER PIPING UNDER EQUIPMENT TO CONNECTIONS.
- 1/2" WATTS NO. 9 DUAL CHECK BACKFLOW PREVENTER IN SUPPLY LINE TO ICE MACHINE/EQUIPMENT.
- GAS PIPING EXTENDED TO HVAC UNIT SEE DETAIL 3/P4. COORDINATE EXACT LOCATION WITH ROOFTOP UNIT.
- EXISTING NATURAL GAS METER, UNDERGROUND GAS SERVICE LINE, AND GAS SERVICE REGULATOR TO BE UPSIZED BY LOCAL GAS COMPANY. COORDINATE INSTALLATION AND PAY ALL ASSOCIATED FEES. EXTEND 3" LOW PRESSURE GAS ALONG EXTERIOR WALL AND INTO BUILDING. ONCE INSIDE BUILDING PIPING SHALL PROVIDE A 1-1/2" BRANCH UP THROUGH ROOF AND RECONNECTS TO EXISTING GAS PIPING SERVING EXISTING UNITS; AND A 2-1/2" GAS PIPING BRANCH TO SERVE NEW EQUIPMENT. REFER TO GAS LOAD SUMMARY AND GAS RISER DIAGRAM - SHEET P3.
- PROVIDE AND INSTALL WATTS NO. 9 DUAL CHECK BACKFLOW PREVENTER IN FILTER SUPPLY LINE TO EACH PIECE OF EQUIPMENT AT BEVERAGE AREA OR ICE MACHINE. LOCATE IN ACCESSIBLE LOCATION.
- RECONNECT 1" CW PIPING TO EXISTING 1" CW PIPING PREVIOUSLY FEEDING EXISTING TOILET ROOMS AND EXISTING BREAK ROOM.
- 1" HW, 1" CW, AND 1-1/2" NATURAL GAS DOWN TO EACH INSTANTANEOUS GAS WATER HEATER MOUNTED ON WALL ABOVE MOP SINK. REFER TO DETAIL 1/P4.
- WATER FILTER MOUNTED ON WALL ABOVE BAG-IN-BOX SYSTEM. STUB-OUT WATER SUPPLY @ 8'-4" A.F.F. SEE DETAIL 2/P4. PROVIDE AND INSTALL 1/2" WATTS NO. 9 DUAL CHECK BACKFLOW PREVENTER IN SUPPLY LINE TO ICE MACHINE AND ALL PIECES OF EQUIPMENT. LOCATE IN ACCESSIBLE LOCATION.
- 2" GAS DOWN, EXPOSED ON WALL. EXTEND UNDER EQUIPMENT TO FINAL CONNECTIONS. PROVIDE PLUG VALVE, REDUCER, AND AGA RATED FLEX SUPPLY AT CONNECTION.
- ALL CW, HW, WASTE AND/OR VENT PIPING IN AND/OR ATTACHED TO THIS WALL SHALL BE MADE OF NON-COMBUSTIBLE MATERIAL.
- INSTALL 1/2" FPT ADAPTERS AND BOOSTERS BEFORE THE FILTRATION SYSTEM.
- 1-1/2" GAS PIPING SHALL BE INSTALLED UP THROUGH ROOF AND SHALL RECONNECTS TO EXISTING GAS PIPING SERVING EXISTING ROOF TOP UNITS.

DESCRIPTION	GAS LOAD (BTUH)
BUILDING HEATING (NEW)	180,000
BUILDING HEATING (EXISTING)	322,000
WATER HEATING	398,000
KITCHEN EQUIPMENT	630,000
TOTAL GAS LOAD	1,530,000 BTUH @ 7.5" W.C. DELIVERY PRESSURE

FRYER'S GAS PRESSURE REQ. WATER COLUMN
7" INPUT SIDE.
4" OUTPUT SIDE.
G.C. TO VERIFY READINGS WHEN CHECKING SYSTEM.

PIPE SIZE	CFH OF GAS
3/4"	71
1"	134
1-1/4"	275
1-1/2"	412
2"	794
2-1/2"	1270
3"	2240

QTY.	TAG	DESCRIPTION	WATER		WASTE		GAS		REMARKS
			COLD	HOT	DIRECT	INDIRECT	SIZE	MBTUH	
2	H10.2	Fryer Battery, 3-20", Gas					0.75	225	
2	H10.2	Fryer Battery, 2-14", Gas					1.00	180	
1	A35.L	Sink, 1 Compartment, Left Hand Drain Board, 52"	0.50	0.50		1.50			
2	A47.3	Ice Botler/Sifter Table, 3 Pans, 86-1/4" LONG				0.50			
1	A54	Freezer, Upright						0	
1	D29	Packing Station w/Dispenser & Dipper Well	0.50			2.00			
1	D40	Sink, 3 Compartment, 94" Long, 18" DB, R & L	0.50	0.50		2.00			
2	D70	Dispenser, Hot Water w/Wall Bracket				0.25			
1	D81	Chubb Warmer, Elec. Rethermalizer				1.50			
1	H10.3PD	Production Counter, Dual Line, 52 1/4" x 134" (Prince-Castle)	0.50			2.00			Verify Dimension & Utilities with K.E.S.
2	K10	Ice Cuhar w/ Remote Condenser				0.5			Remote Condenser Model JC-0895
1	K16	Ice Bin, 1500 lbs				0.75			
1	K20	Water Filter, Equipment				0.75			
1	K31	Soda Dispenser, 8 Heads, Fast Flow Valves w/ Stand				0.75			
1	K32	Soda Dispenser, 8 Heads, Counter w/ Ice Bin, Adapter Plate				0.75			
3	N10	Hand Sink, w/ Hand Free Lever	0.50	0.50		1.50			
1	N20	Mop Sink	0.50	0.50		3.00			
2	N31	Water Heater	0.75	0.75			0.75	15-180	

Order Plans @ WWW.IDLINE.COM

	DOMESTIC COLD WATER PIPING
	EXIST. DOMESTIC COLD WATER
	DOMESTIC HOT WATER PIPING
	EXIST. DOMESTIC HOT WATER
	FILTERED WATER
	VENT PIPING
	WASTE (SANITARY SEWER)
	EXIST. WASTE (SANITARY SEWER)
	GREASE WASTE
	GAS PIPING
	GAS PIPING
	GAS VALVE
	GAS SOLENOID VALVE
	GATE VALVE
	BALANCING VALVE
	CHECK VALVE
	UNION
	PIPE UP
	PIPE DOWN
	FLOOR DRAIN
	HUB DRAIN
	FLOOR SINK
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	GRADE CLEAN OUT
	WALL CLEAN OUT
	KITCHEN EQUIPMENT ITEM NUMBER
	FIXTURE DESIGNATION
	ABOVE FINISHED FLOOR
	PLUMBING SUB-CONTRACTOR
	GENERAL CONTRACTOR
	MECHANICAL SUB-CONTRACTOR
	ELECTRICAL SUB-CONTRACTOR
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	GRADE CLEAN OUT
	HOSE BIBB
	FLOOR DRAIN
	FLOOR SINK
	HUB DRAIN
	COLD WATER
	HOT WATER
	TEMPERED WATER
	FILTERED WATER
	AIR ADMITTANCE VALVE
	TIE INTO EXISTING

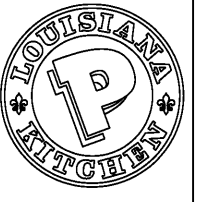
NOT ALL SYMBOLS AND ABBREVIATIONS IN THIS LEGEND WILL APPEAR IN DRAWING.

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85 SEATS / DUAL-LINE PRODUCTION/PLK1771-DL



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PLUMBING WATER AND GAS PLAN
P2
DATE: 03/11/2020
PROJECT NO: G20-05
CHECKED: GR