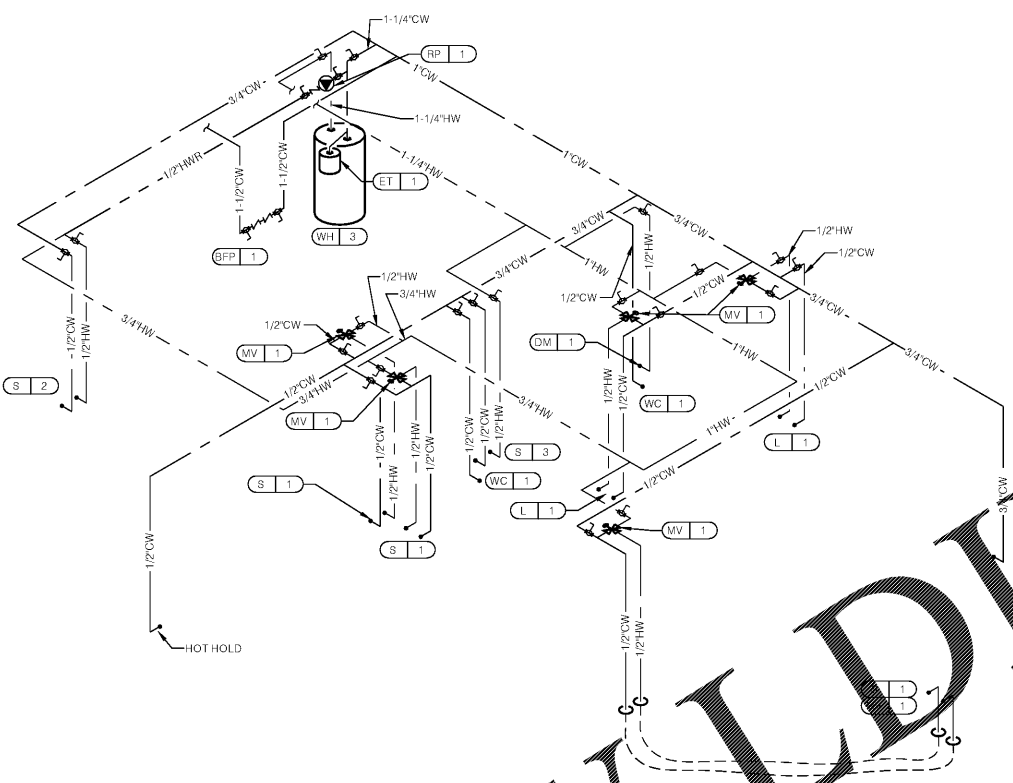


GAS DEMAND SCHEDULE	
RTU-1	250 MBH
RTU-2	200 MBH
WH-3	125 MBH
PIZZA OVEN (3 @ 122 MBH EA)	366 MBH
100 MBH FRYER (1 @ 100 MBH, 1 FUTURE 80 MBH)	180 MBH
TOTAL DEMAND	1121 MBH (1,121,000 BTUH)
GAS PIPE SIZE IS BASED ON 2015 INTERNATIONAL FUEL GAS CODE TABLE 402.4(2) SCHEDULE 40 METALLIC PIPE, LESS THAN 2 PSI SYSTEM PRESSURE, .5 IN. W.C. PRESSURE DROP, 125 FEET TOTAL DEVELOPED PIPE LENGTH, 1,121 MBH TOTAL CONNECTED LOAD.	

GAS PIPING ISOMETRIC RISER NTS 5



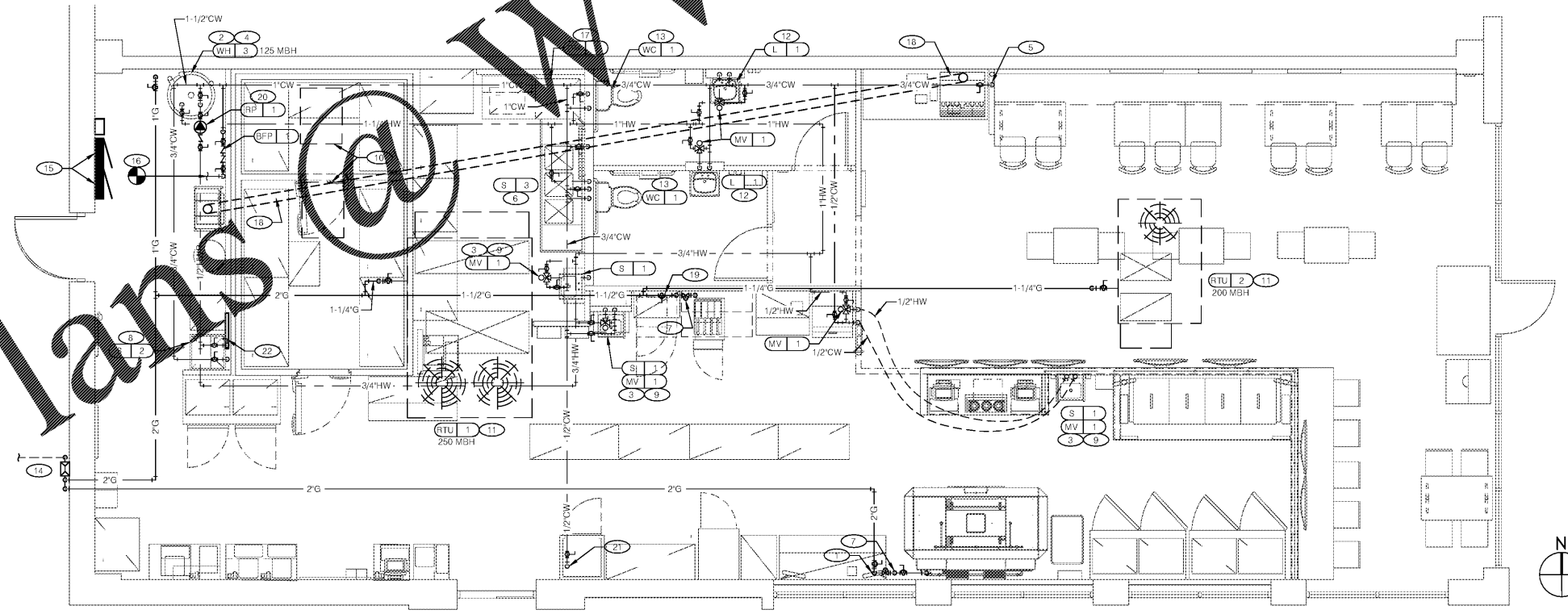
WATER PIPING ISOMETRIC RISER NTS 4

- 1 2" GAS DOWN TO OVENS. SEE OVEN GAS PIPING DETAIL ON SHEET P4.0.
- 2 1" GAS DOWN TO WATER HEATER WITH GAS COCK, DIRT LEG, AND UNION.
- 3 1/2" TEMPERED WATER TO HAND SINK.
- 4 1-1/4" HOT AND COLD WATER DOWN TO WATER HEATER. REFER TO DETAIL ON SHEET P4.0.
- 5 3/4" CW LINE DOWN TO WATER FILTER SERVING BEVERAGE DISPENSER COFFEE AND TEA BREWER. GC TO TEE OFF FROM DISPENSER FILTERED COORDINATE WATER TO CONNECT COFFEE AND TEA BREWER MACHINES WITH BEVERAGE COMPANY FOR CONNECTIONS TO TAKE PLACE INSIDE THE CABINET. PROVIDE IN-LINE ASSE 1022 BACKFLOW PREVENTER AND SHUT OFF VALVE AT EACH UNIT. TEA BREWER WATER SUPPLY MUST BE METAL BRAIDED HOSE.
- 6 3/4" HOT AND COLD WATER DOWN IN WALL TO 3-COMPARTMENT SINK. INSTALL WATTS NO 96 BACKFLOW PREVENTER FOR EACH WATER LINE CONNECTION TO FAUCET.
- 7 SOLENOID EMERGENCY SHUT-OFF VALVE ABOVE ACCESSIBLE CEILING FOR EXHAUST HOOD FIRE SUPPRESSION SYSTEM.
- 8 EXTEND 1/2" HOT AND COLD WATER DOWN IN THE WALL TO THE MOP SINK.
- 9 THERMOSTATIC MIXING VALVE BELOW SINK.
- 10 ROUTE REFRIGERANT LINES TO REMOTE CONDENSERS AS REQUIRED. INSURE PER MANUFACTURERS RECOMMENDATIONS.
- 11 1-1/4" GAS TO RTU 1 & 2. PROVIDE DIRT LEG, GAS COCK, AND UNION AT UNIT CONNECTION.
- 12 1/2" TEMPERED AND COLD WATER DOWN IN WALL TO LAVATORY.
- 13 1/2" CW DOWN TO WATER COOLER. PROVIDE 3/8" S.S. SHUT OFF VALVE.
- 14 PROVIDE GAS SERVICE TO SHOWER WITH ALL ASSOCIATED VALVING, REGULATORS, SUPPORTS AND EQUIPMENT AS SPECIFIED BY MANUFACTURER. COORDINATE WITH MECHANICAL ENGINEER FOR TOTAL LOAD AND DEVELOPED LENGTH. COORDINATE THE NEW GAS PIPING INSTALLATION WITH LANDLORDS FIELD REPRESENTATIVE. 2" DEDICATED LINE FOR PIZZA OVENS TO BE INSTALLED BACK OF LOCATION OF ROOF PENETRATION ALONG SIDE OF LINE SERVING ALL OTHER LOADS IN SPACE. BEFORE LINE TURNS UP THROUGH ROOF COMBINE 2" DEDICATED LINE INTO MAIN LINE.
- 15 DO NOT ROUTE WATER LINES OVER ELECTRICAL PANELS.
- 16 PROVIDE NEW 1/2" COLD WATER PIPING AS REQUIRED, AND CONNECT TO THE INCOMING WATER SERVICE LINE AT THE EXACT LOCATION AND SIZE IN FIELD.
- 17 PROVIDE 1/2" HOT WATER TO DISHWASHER. CONTRACTOR SHALL PROVIDE AND INSTALL WATER HAMMER ARRESTOR (PDI SIZE A, ASSE 1010) AND 25 PSI PRESSURE REGULATING VALVE WITH INTERNAL THERMAL EXPANSION BY-PASS ON SUPPLY LINE. CONTRACTOR SHALL INSTALL VACUUM BREAKER AND ALL ACCESSORIES PROVIDED WITH THE DISHWASHER PER MANUFACTURERS RECOMMENDATIONS.
- 18 BAG-IN-BOX LINES ROUTED ABOVE CEILING - REFER TO ARCHITECTURAL SHEETS FOR ROUTING TO DRINK DISPENSERS.
- 19 ROUTE 1-1/4" GAS LINE DOWN FACE OF WALL, VALVE AT 12" A.F.F. FOR GAS FRYER.
- 20 PROVIDE INLINE HOT WATER RECIRCULATION PUMP AND CHECK VALVE. REFER TO SHEET P4.0 FOR DETAILED PIPING SCHEMATIC.
- 21 ROUTE 1/2" COLD WATER DOWN IN WALL TO 80" AFF TO HOT HOLD CABINET. HOT HOLD CABINET HAS INTEGRAL AIR GAP FITTING.
- 22 PROVIDE 1/2" HW AT 48" ABOVE FINISH FLOOR WITH SHUT OFF VALVE FOR CONNECTION TO CLEANING SUPPLY DISPENSING SYSTEM.

KEYNOTES NTS 3

- A. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS"; REFER TO ROOF PLAN FOR LOCATIONS.
- B. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISHED CEILING. UNDERSLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS. NO JOINTS ALLOWED IN WATER PIPING LOCATED BELOW SLAB.
- C. REFER TO ISOMETRIC DRAWINGS FOR PIPE SIZES.

GENERAL NOTES NTS 2



NOTE:
NEW GAS FIRED WATER HEATER FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
PLUMBING CONTRACTOR SHALL PROVIDE ALL VENTING REQUIRED. REF: MANUFACTURERS REQUIREMENTS.

NOTE:
FIELD VERIFY EXACT LOCATION OF GAS METER.
NEW GAS REGULATOR TO BE PROVIDED BY PLUMBING CONTRACTOR @ INDICATED LOCATION. REF: NOTE 14 THIS SHEET.

NOTE:
PLUMBING CONTRACTOR SHALL NOT RESTRICT GAS PIPING OR GAS METER. DESIGNER SHALL BE RESPONSIBLE TO BRANCH OFF GAS LINES TO ALL FIXTURES FROM MAIN GAS LINE.
(INSTALL GAS METER AND REGULATOR)
PAINT EXPOSED PIPE TO MATCH BLDG. (AS REQUIRED).

08/10/18
1845
DIB NO: 1845
DRAWN: BH, MJ, SO
CHECKED: AR, CF
ACC #: 1820228

GAS AND WATER SERVICE PLAN

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10/09/18

SHEET NUMBER
P3.0