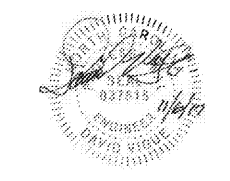
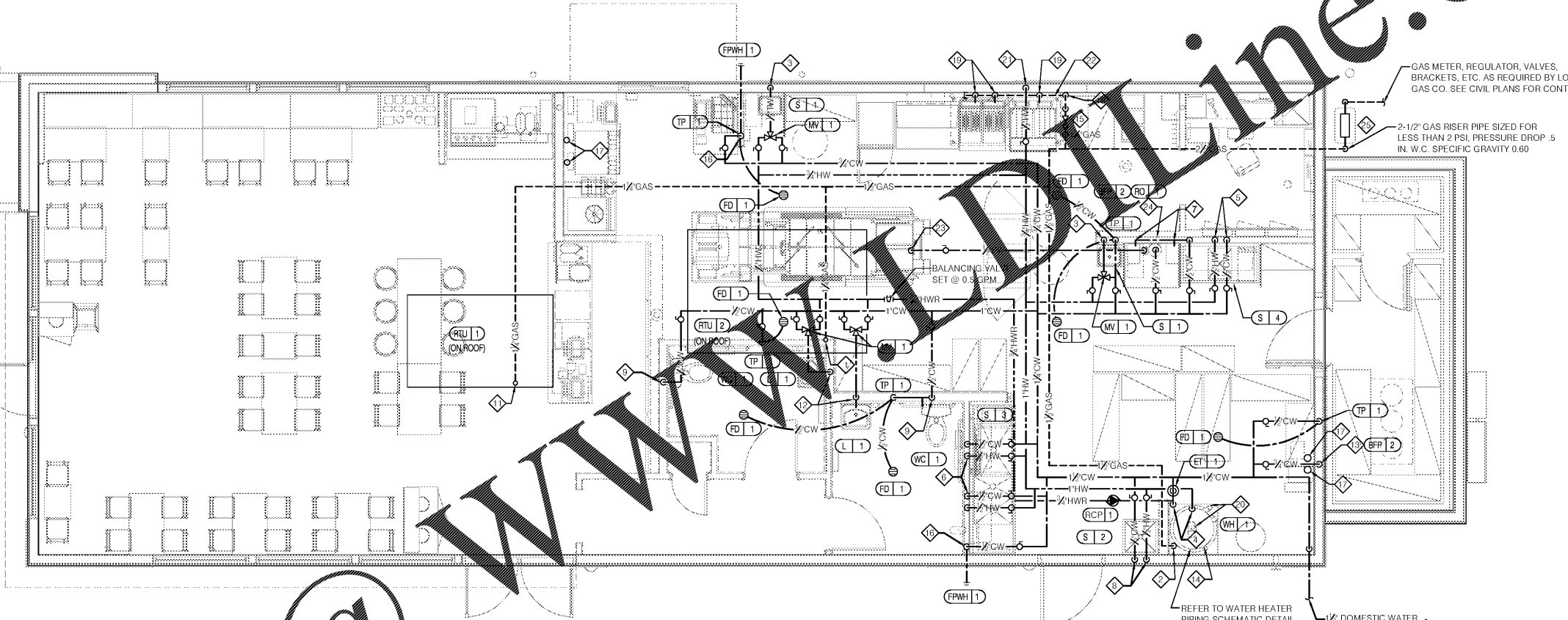


WATER FIXTURE LOAD CALCULATIONS						
MARK	FIXTURE/EQUIPMENT	QUANTITY	WATER			
			CW F.U. PER FIXTURE	HW F.U. PER FIXTURE	TOTAL WSFU PER TYPE	TOTAL F.U. PER FIXTURE
WC-1	WATER CLOSET	2	5.0	-	5.0	10.0
L-1	LAVATORY	2	1.5	1.5	2.0	4.0
S-1	HAND SINK	2	1.5	1.5	2.0	4.0
S-2	MOP SINK	1	3.0	3.0	4.0	4.0
S-3	3 COMP. SINK	1	3.0	3.0	4.0	4.0
S-4	PREP SINK	1	1.5	1.5	2.0	2.0
FPWH-1	F.P. WALL HYDRANT	2	3.0	-	3.0	6.0
RETH-1	REETHERMALIZER	1	-	1.0	1.0	1.0
P-450	HOT WATER FILTER	2	1.0	-	1.0	2.0
P-315	REVERSE OSMOSIS	1	1.0	-	1.0	1.0
S-286	WATER FILTER	1	5.0	-	5.0	5.0
S-5	DUMP SINK	1	1.5	1.5	2.0	2.0
<b>TOTALS</b>						<b>45.0</b>
MAXIMUM WATER DEMAND AT 45.0 F.U. = 48.0 GPM = 1/2" WATER MAIN SUPPLY						

GAS DEMAND LOAD CALCULATIONS						
MARK	FIXTURE/EQUIPMENT	QUANTITY	UNIT DEMAND BTUH	TOTAL DEMAND BTUH	TOTAL CFH	CONNECTION PIPE SIZE
RTU-1	ROOFTOP UNIT 1	1	120,000	120,000	120.0	1"
RTU-2	ROOFTOP UNIT 2	1	250,000	250,000	250.0	1 1/2"
C-015	FRYER	2	110,000	220,000	220.0	3/4"
C-105	REETHERMALIZER	1	110,000	110,000	110.0	3/4"
WH-1	WATER HEATER	1	300,000	300,000	300.0	1 1/2"
<b>TOTAL</b>				<b>1,000,000</b>	<b>1,000.0</b>	
2-1/2" GAS LINE REQUIRED BASED ON 150'-0" TOTAL LENGTH OF PIPE AT LESS THAN 2 PSI						



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CONTRACT DATE: 10.23.17  
 BUILDING TYPE: EXP. LITE MED 40  
 PLAN VERSION: DECEMBER 2016  
 SITE NUMBER: 311687  
 STORE NUMBER: 436563

TACO BELL  
 3923 SHAKEDOWN ST.  
 CHARLOTTE, NC

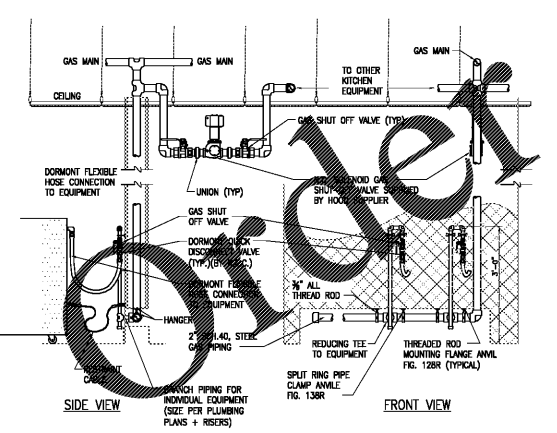


**PLUMBING WATER & GAS FLOOR PLAN**

**P3.0**

Plans @

WWW.DevitaLine.com



- WATER & GAS PLAN NOTES** C
- A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.
  - B. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS", REFER TO ROOF PLAN FOR LOCATIONS.
  - C. REFER TO SHEET P4.0 FOR ROUGH-IN LOCATIONS.
  - D. REFER TO SHEET P5.0 FOR WATER AND GAS ISOMETRIC DRAWINGS.
  - E. FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO CONNECTING TO WATER FILTERS.
  - F. PROVIDE REDUCED PRESSURE BACK FLOW TO SERVE CARBONATOR, DRAIN RELIEF TO FLOOR SINK WITH AIR GAP
- 1 1/2" GAS UP TO RTU-2 WITH DIRT LEG, GAS COCK AND UNION.
  - 1/2" GAS DOWN TO WATER HEATER WITH GAS COCK, DIRT LEG, UNION, AND PAINTED YELLOW.
  - 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK.
  - 1-1/2" HOT AND 1-1/2" COLD WATER LINES DOWN TO WATER HEATER.
  - 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
  - 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO THREE COMPARTMENT SINK.
  - 1/2" COLD WATER 2'-0" A.F.F. CONNECT TO WATER FILTER FOR HOT WATER SYSTEM P-450. PROVIDE SHUT-OFF VALVE PRIOR TO SPLITTING LINE AND CONNECTING TO THE WATER FILTER.
  - 1/2" COLD AND HOT WATER DOWN IN THE WALL TO THE MOP SINK.
  - 1/2" COLD WATER DOWN IN WALL TO WATER CLOSET FLUSH TANK.
  - BACKFLOW PREVENTER AND WATER METER TO BE LOCATED BY CIVIL. REFER TO CIVIL DWGS.
  - 1" GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK, UNION.
  - 1/2" TEMPERED WATER LINES DOWN IN WALL TO LAVATORY.
  - 3/4" COLD WATER DOWN ALONG WALL TO WATER FILTER S-286.
  - WATER HEATER (WH-1) PIPE CONDENSATE LINE, T & P DISCHARGE AND DRAIN PAN TO HUB DRAIN. SEE WATER DETAIL 2/P6.0.
  - EMERGENCY GAS SHUT-OFF VALVE LOCATED BELOW CEILING.
  - 1/2" COLD WATER DOWN IN WALL TO EXTERIOR HOSE BIBB.
  - (3) BUNDLED SYRUP LINES TO BEVERAGE DISPENSERS S-284 & S-285 AND FILTERED WATER LINES TO ICE MAKERS S-513 AND FROZEN BEVERAGE DISPENSER S-543. SEE DRAWINGS A2.0 AND P5.0.
  - 1-1/4" GAS DOWN ALONG WALL TO TACO BELL COOKING EQUIPMENT. VERTICAL GAS PIPING IN WALL SHALL NOT BE RIGIDLY SECURED AND ADEQUATE PIPE PROTECTION SHALL BE PROVIDED.
  - 3/4" GAS DIRT LEG W/ GAS COCK TO COOKING EQUIPMENT. PROVIDE FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.
  - 4" PVC EXHAUST AND INTAKE FLUES FROM WATER HEATER, PIPE THRU ROOF AS RECOMMENDED BY MANUFACTURER TO LOCATIONS SHOWN ON SHEET M2.0 SEE DETAIL 2/P6.0. SEE M2.0. NOTE 17.
  - 1/2" HOT WATER DOWN IN WALL TO TB RETHERMALIZER. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
  - RUN GAS PIPE 18" A.F.F. WITH DIRT LEGS FOR GAS HOSE KITS TO COOKING EQUIPMENT. HARD GAS LINE BEHIND COOKING EQUIPMENT SHALL NOT BE MORE THAN 6" MAX. FROM THE WALL SURFACE.
  - 1/4" FILTER WATER LINE DOWN IN UTILITY CHASE OF DRY PRODUCTION LINE. PROVIDE SHUT-OFF VALVE ON FW PIPING IN CEILING NEAR CHASE.
  - 1/2" COLD WATER TO REVERSE OSMOSIS FILTER P-305 AND 1/2" FILTER WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON CW PIPE PRIOR TO CONNECTION TO FILTER. SEE DETAIL 9 / P6.0.
  - GAS METER REGULATOR VALVES, BRACKETS, ETC. AS REQUIRED BY LOCAL GAS CO.

- KEY NOTES** B