

**1 | PLUMBING DOMESTIC WATER PLAN**  
SCALE: 1/4" = 1'-0"

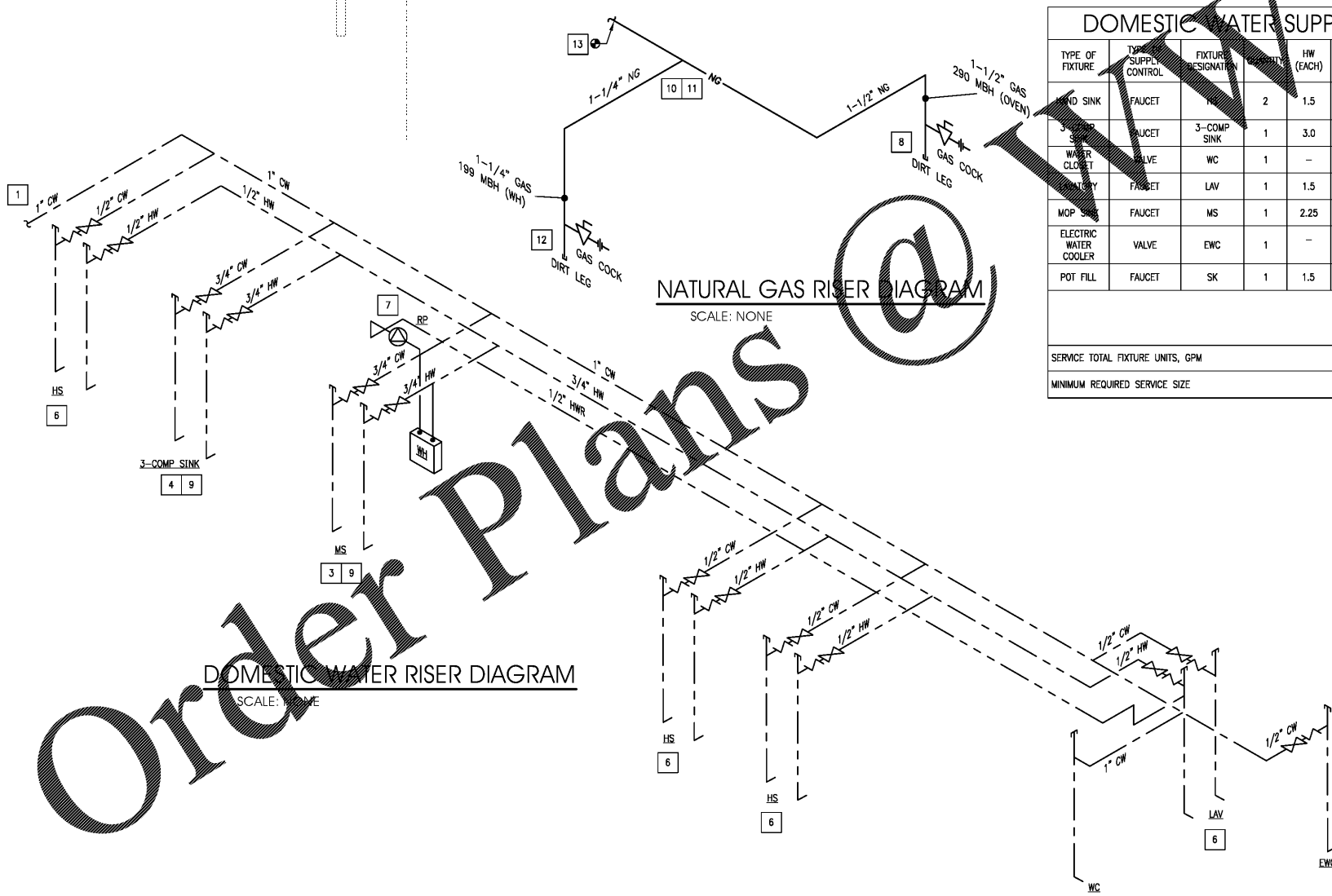
DOMESTIC WATER SUPPLY FIXTURE UNITS									
TYPE OF FIXTURE	TYPE SUPPLY CONTROL	FIXTURE DESIGNATION	QTY	HW (EACH)	HW (TOTAL)	CW (EACH)	CW (TOTAL)	TOTAL (EACH)	TOTAL (F.U.'S) (TOTAL)
KITCHEN SINK	FAUCET	KS	2	1.5	3.0	1.5	3.0	2.0	4.0
3-COMP SINK	FAUCET	3-COMP SINK	1	3.0	3.0	3.0	3.0	4.0	4.0
WATER CLOSET	VALVE	WC	1	-	-	10.0	10.0	10.0	10.0
HAND SINK	FAUCET	LAV	1	1.5	1.5	1.5	1.5	2.0	2.0
MOP SINK	FAUCET	MS	1	2.25	2.25	2.25	2.25	2.25	3.0
ELECTRIC WATER COOLER	VALVE	EWC	1	-	-	0.25	0.25	0.25	0.25
POT FILL	FAUCET	SK	1	1.5	1.5	1.5	1.5	2.0	2.0
						HW	CW		TOTAL (FIXTURE UNITS) (TOTAL)
SERVICE TOTAL FIXTURE UNITS, GPM							11.25	22.5	25.25
MINIMUM REQUIRED SERVICE SIZE								1"	

- WATER PLAN KEYED NOTES:**
- CONNECT 1" CW TO EXISTING 1" WATER STUB BASED ON LANDLORD SHELL DRAWINGS. G.C. TO VERIFY THAT SIZE IS ADEQUATE FOR THE NEW PROPOSED PLUMBING FIXTURES. P.C. TO VERIFY LOCATION AND SIZE. PRIOR TO STARTING ANY WORK.
  - PROVIDE FLOOR DRAIN WITH TRAP PRIMER. SEE DETAIL SHEET P3.0.
  - PROVIDE VACUUM RELIEF AT MOP SINK VIA NSF LISTED ANTI-SIPHON FAUCET.
  - PROVIDE SHOCK ABSORBER ON ALL FAST-CLOSING VALVES [FLUSH VALVES, 3-COMP SPRAYER (IF USED)], ETC. AS APPLICABLE.
  - DO NOT ROUTE WATER LINES ABOVE PANELS OR ELECTRICAL GEAR. PROVIDE WATER DIVERTING BARRIER OR SHIELD IF EXISTING LINES TRAVERSE ABOVE GEAR LOCATION.
  - PROVIDE THERMOSTATIC MIXING VALVE AT ALL NEW LAVS AND HANDSINKS.
  - 1/2" HWR TO H.W.R. PUMP, COORDINATE LOCATION WITH POWER AND LINE ROUTING. PLACE BETWEEN LAST FIXTURE AND WATER HEATER SUPPLY CONNECTION. PROVIDE (2) CHECK VALVES (1) ON EITHER SIDE OF PUMP.
  - GAS CONNECTION TO ROTATING RACK OVEN (290 MBH). PROVIDE GAS COCK & UNION. REFER TO RISER DIAGRAM FOR PIPE SIZE.
  - PROVIDE CHECK VALVES.
  - SIZE GAS PIPING PER SITE CONDITIONS - VERIFY TOTAL DEVELOPED LENGTH PER SITE AND PRESSURE.
  - LINE SIZES SHOWN HERE ARE BASED ON <2 PSI AND 350' TOTAL DEVELOPED LENGTH. THESE SIZES REPRESENT MINIMUM LINE SIZES. NOTIFY ENGINEER FOR RESIZING IF ANY OTHER EQUIPMENT IS SERVED BY EXISTING LINES BEYOND WHAT IS SHOWN HERE, OR IF TOTAL DEVELOPED LENGTH EXCEEDS 350' FOR RESIZING OF LINES.
  - GAS CONNECTION DOWN TO GAS WATER HEATER (199 MBH). PROVIDE GAS COCK & UNION. ADD PRESSURE REGULATOR TO 7" W.C. REFER TO RISER DIAGRAM FOR PIPE SIZE.
  - EXISTING 2" NG LINE. CONNECT FOR SERVICE TO WATER HEATER AND OVEN UNITS.
  - EXISTING UNIT HEATER AND GAS CONNECTION TO REMAIN.

- GENERAL NOTES:**
- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE TO OBSERVE THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
  - REFER TO RISER DIAGRAMS FOR MORE PIPE SIZES.
  - PROVIDE A CONSTRUCTION RECORD SET OF AS BUILT DOCUMENTS TO THE OWNER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS.
  - PROVIDE TO THE OWNER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
  - INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
  - PLANS AND SPECIFICATION GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
  - VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
  - REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
  - DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
  - INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
  - PIPING VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
  - PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED.
  - COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
  - INSPECT AND TEST ALL EXISTING SANITARY SEWER LINES AND WATER SUPPLY LINES, REPAIR OR REPLACE AS REQUIRED.
  - WATER HEATER SHALL BE CERTIFIED BY THE MANUFACTURER AND MUST COMPLY WITH THE ENERGY STANDARDS OF THE 2012 VIRGINIA ENERGY COMMISSION.

TOTAL GAS DEMAND LOAD				
NO.	DESCRIPTION	CONN. SIZE	QTY.	TOTAL (MBH)
1	WATER HEATER	1-1/4"	1	199
2	OVEN	1-1/2"	1	290
COOKING APPLIANCE SUB-TOTAL				290
WATER HEATING SUB-TOTAL				199
GAS DEMAND TOTAL				489

- NOTE(S):**
- GAS PIPING SIZE IS BASED ON LONGEST RUN METHOD.
  - THE GAS SYSTEM SIZED FOR THE OVEN AND WATER HEATER IS SIZED FOR A TOTAL DEVELOPED LENGTH OF MAXIMUM 350' AND 0.5 IN. OF W.C. PRESSURE DROP FROM THE GAS METER.
  - PIPE SIZES SHOWN ON THE RISER DIAGRAM ARE BASED ON 2012 INTERNATIONAL FUEL GAS CODE WITH LOCAL AMENDMENTS. VERIFY FIELD CONDITIONS FOR ACTUAL DEVELOPED LENGTH AND POSSIBLE ADJUSTMENTS TO PIPE SIZES.

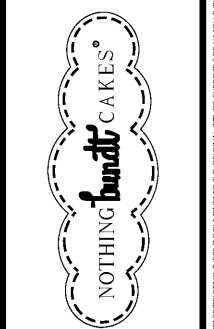


**NATURAL GAS RISER DIAGRAM**  
SCALE: NONE

**DOMESTIC WATER RISER DIAGRAM**  
SCALE: NONE

Order Plans

04.11.18 PERMIT SUBMIT  
04.04.18 OWNER REVIEW  
NO. DATE REMARKS  
REVISIONS



CREEKSIDE PLAZA  
4110 N. MT. JULIET RD.  
MT. JULIET, TN 37122

PROJECT NO: 2018.0044  
DATE: 04.11.18

**P1.0**  
PLUMBING DOMESTIC  
WATER PLAN

CHECKED: MFG DRAWN: JMA

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