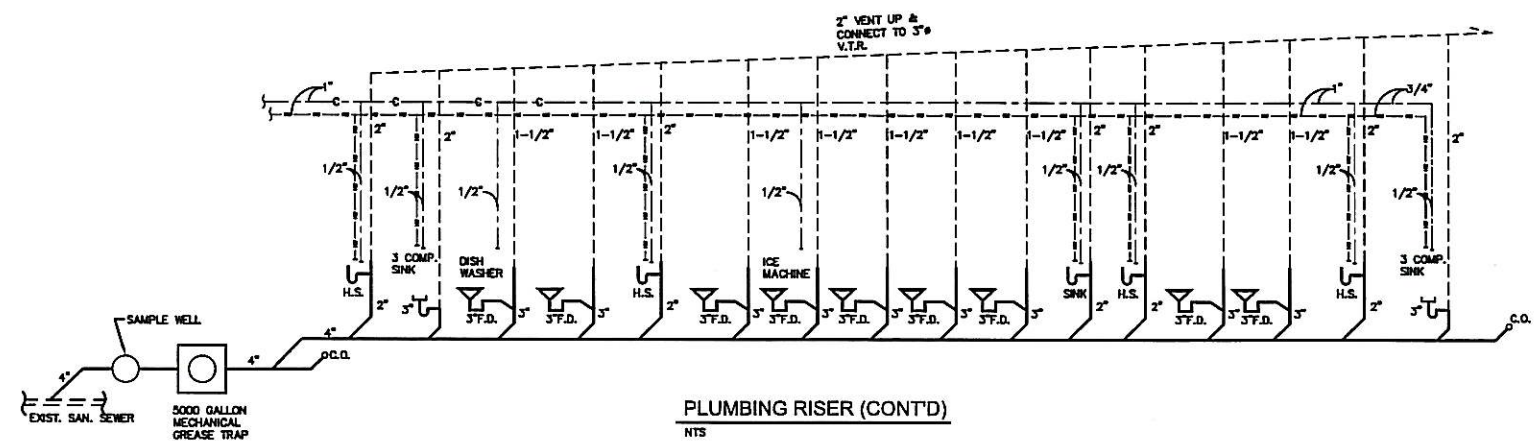


PLUMBING RISER  
NTS



PLUMBING RISER (CONT'D)  
NTS

**ABBREVIATIONS:**

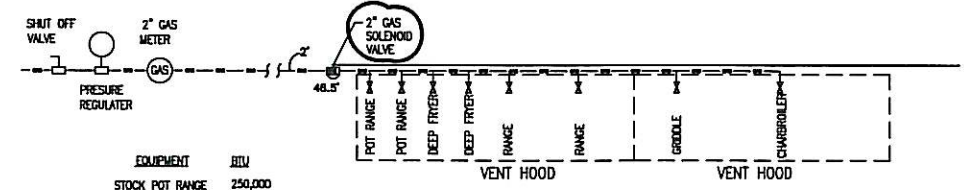
- F.D. FLOOR DRAIN
- G.C.O. GROUND FLOOR CLEAN OUT
- C.O. CLEAN OUT
- ABV. ABOVE
- C.G. CEILING
- A.F.F. ABOVE FINISHED FLOOR
- P.V.C. POLYVINYL CHLORIDE PIPING
- CONT. CONTINUATION
- V.T.R. VENT THRU ROOF

**INTERIOR PIPING**

- SANITARY WASTE - PVC SCH-40
- VENT PIP - PVC SCH-40
- DOMESTIC WATER - TYPE 'L' COPPER HARD DRAWN
- GAS LINE - BLACK IRON PIPE SCH-40

**PLUMBING LEGEND:**

- SANITARY SOIL OR WASTE PIPING (S OR W)
- - - SANITARY VENT PIPING (V)
- COLD WATER PIPING (C.W.)
- HOT WATER PIPING (H.W.)
- GATE VALVE (G.V.)
- BACK FLOW PREVENTER VALVE (BFP)
- GAS LINE



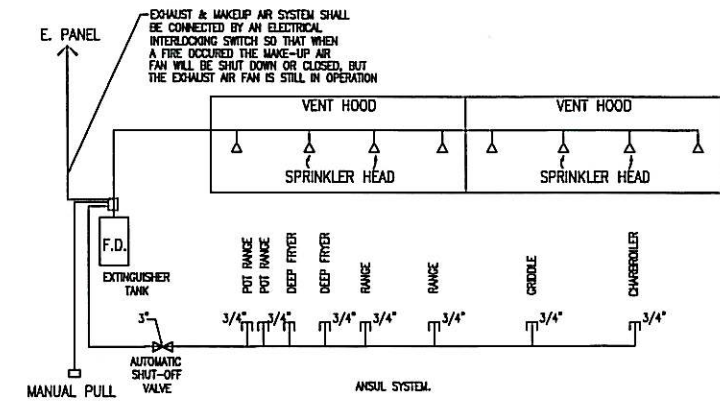
GAS LINE RISER  
NTS

EQUIPMENT	BTU
STOCK POT RANGE	250,000
STOCK POT RANGE	250,000
DEEP FRYER	140,000
DEEP FRYER	140,000
RANGE	139,000
GRIDDLE	135,000
CHARBROILER	180,000
<b>TOTAL</b>	<b>1,234,000</b>

NOTE:  
NATURAL GAS OF 0.60  
SPECIFIC GRAVITY BASED ON  
PRESSURE DROP OF 0.5  
INCH WATER COLUMN

**PLUMBING GENERAL NOTES:**

1. CONTRACTOR TO FAMILIAR ALL EXISTING PLUMBING CONDITIONS BEFORE STARTING WORK
2. CONTRACTOR TO COORDINATE WITH OTHER DISCIPLINES AS REQUIRED BEFORE STARTING WORK
3. CONTRACTOR TO VERIFY ALL EQUIPMENTS SIZES AND FINAL LOCATION AND NOTIFY THE ARCHITECT FOR ANY DISCREPANCY BEFORE STARTING WORK
4. THE CONTRACTOR SHALL EXECUTE THE WORK IN STRICT ACCORDANCE WITH LOCAL, STATE AND NATIONAL LAWS AND ORDINANCES AND ALL APPLICABLE CODES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES REQUIRED FOR THIS PROJECT.
6. THE CONTRACTOR SHALL PROVIDE A COMPLETE DESIGN AND BUILD PLUMBING SYSTEM INCLUDING DRAINS, VENTS, HOT AND COLD WATER, AND GAS PIPING, VALVES AND ETC., AND THE INSTALLATION OF ALL PLUMBING FIXTURES AS INDICATED ON DRAWINGS OR REQUIRED BY CODES.
7. PROVIDE THE OWNER WITH ONE(1) YEAR WRITTEN WARRANTY ON THE COMPLETE INSTALLATION AND EQUIPMENT FOR THIS PROJECT.
8. APPROVED EQUIVALENT SHALL MEAN THAT ALL ITEMS TO BE APPROVED SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. THE OWNER'S REPRESENTATIVE SHALL DETERMINE WHAT ITEMS ARE EQUIVALENT OR NOT.
9. ALL WATER PIPING SYSTEM SHALL BE VALVED AT THE INLET SIDE OF ALL EQUIPMENT WITH HOT OR COLD WATER CONNECTIONS AND OUTLET SIDE OF HOT WATER AND STEAM CONNECTIONS.
10. ALL OPEN PIPING SHALL BE CAPPED OR PLUGGED TO PREVENT ENTRY OF FOREIGN MATERIAL DURING THE CONSTRUCTION PERIOD.
11. ALL PIPING SHALL BE SECURED, FASTEN TO TRUSSES, WALLS OR STUDS.
12. PIPING SHALL NOT CONTACT ELECTRICAL CONDUITS AT ANY POINT, DIRECTLY OR INDIRECTLY THROUGH PIPE SUPPORTS.
13. ALL WATER PIPING SHALL BE TYPE 'L' COPPER TUBING, ASTM B-88 WITH WROUGHT COPPER FITTINGS, ANSI B-16.22. UNDERGROUND PIPING SHALL BE INSTALLED WITHIN SPECIALTY PRODUCTS CO. "PLASTI-SLEEVE", 0.005" THICKNESS.
14. UNIT TRAPS, GREASE TRAPS, BACK FLOW PREVENTORS, HAIR TRAPS AND OTHER EQUIPMENT DEEMED NECESSARY OR REQUIRED BY CODES OR LANDLORD SHALL BE PROVIDED BY THE CONTRACTOR.  
PIPING MATERIALS SHALL BE AS FOLLOWS:  
A. DRAIN PIPING: STANDARD WEIGHT CAST IRON OR SCHEDULE 40 PVC.  
B. VENT PIPING: GALVANIZED STEEL, CAST IRON OR SCHEDULE 40 PVC.  
C. WATER PIPING: TYPE 'L' COPPER TUBING.  
D. GAS: BLACK STEEL PIPE SCHEDULE 40-A-120.  
E. CLEAN-OUTS: ZURN OR ANY APPROVED EQUIVALENT BY OWNER.
15. ALL ROOF PENETRATIONS SHALL BE MADE BY LANDLORD'S CONTRACTOR AT THIS PROJECT CONTRACTOR'S EXPENSE.
16. ALL NEW DOMESTIC HOT AND COLD WATER PIPING SHALL BE INSULATED WITH FORMED STYROFOAM PIPE INSULATION. INSULATION THICKNESS SHALL BE 1/2" MINIMUM.
17. THE CONTRACTOR SHALL VERIFY LOCATION OF GAS METER WITH LOCAL GAS COMPANY, VERIFY EXISTING WATER LINES, SEWER LINE, LOCATION AND DEPTH AT JOB SITE.
18. THE CONTRACTOR SHALL VERIFY LOCATION OF FLOOR SINKS, FLOOR DRAINS, WITH OWNER OR EQUIPMENT SUPPLIER.
19. THE TENANT SHALL VERIFY FLOW LINES OF THE EXISTING SANITARY SEWER SYSTEM PRIOR TO INSTALLING ANY UNDERSLAB PIPE TO INSURE ADEQUATE SLOPES ARE MET. IT MAY BE NECESSARY TO UTILIZE SHALLOW FLOOR SINKS TO PROVIDE ADEQUATE SLOPE CLEARANCES.
20. ANY EXISTING FLOOR DRAINS NOT BEING USED SHALL BE DISCARDED. PATCH AND RETAIN FIRE RATING OF FLOOR ASSEMBLY.



**FIRE SUPPRESSION**

GLASS FIBER BLANKET INSULATION:  
FIRE HAZARD CLASSIFICATION 25/50, MEETING REQUIREMENTS OF NFPA 90A AS TESTED PER ASTM E84 AS COMPOSITE PRODUCT.  
MAXIMUM THERMAL CONDUCTIVITY= .31 BTU IN. PER SQ. FT. PER HOUR AT 75oF MEAN TEMPERATURE PER ASTM C518.  
TEMPERATURE LIMIT 250o OR GREATER.  
FACING TO BE 0.35 MIL ALUMINUM FOIL REINFORCED WITH FIBER GLASS LAMINATED TO UL RATED KRAFT PAPER. FACING TO HAVE PERMEANCE OF 0.05 PERMS OR LESS



12/14/10

**STRATEM  
DESIGNS**

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PLUMBING  
PLAN  
RISER & DETAILS

Sheet Number:

P-1.2