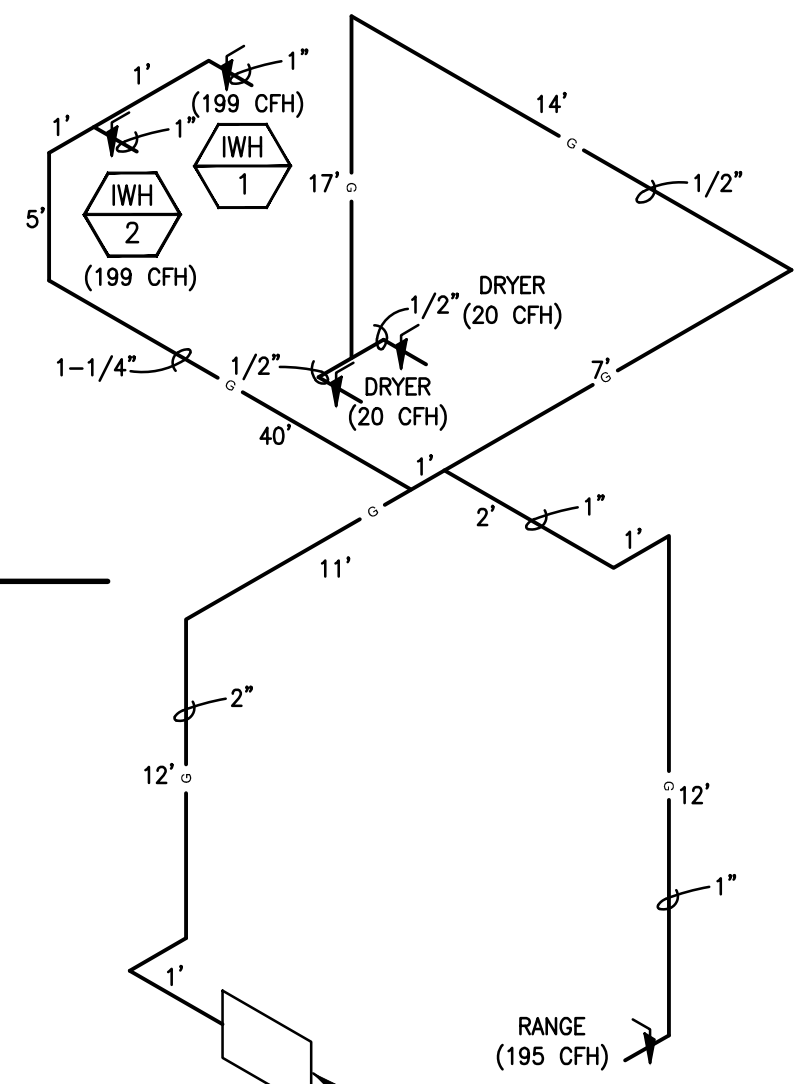


**NOTES:**

- AS PER 2012 IFGC, SECTION 401.5-IDENTIFICATION. FOR OTHER THAN STEEL PIPE, EXPOSED PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET. THE MARKING SHALL NOT BE REQUIRED ON PIPE LOCATED IN THE SAME ROOM AS THE APPLIANCE SERVED.
- CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY AND PROVIDE A MINIMUM PRESSURE OF 8.0" W.C. AT METER. PROVIDE LOW-PRESSURE REGULATOR AT METER IF REQUIRED.

**GAS PIPING NOTES**

- MINIMUM DEPTH OF GAS PIPING TO BE 24" BELOW GRADE. COORDINATE WITH LOCAL GAS COMPANY.
- GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING.
- GAS PIPING SHALL NOT BE RUN IN HOLLOW CORE OF BLOCK.
- PROVIDE SHUT-OFF COCK, UNION, AND 6" LONG DIRT LEG WITH CAP AT EACH GAS LINE DROP TO APPLIANCE.
- ALL GAS-USING EQUIPMENT TO BE NATURAL GAS FUEL.
- DO NOT USE FLEXIBLE PIPE CONNECTIONS TO EQUIPMENT.
- ALL GAS PIPING UNDER ASPHALT OR CONCRETE PAVING ADJOINING BUILDING MUST BE SLEEVED IN GAS TIGHT VENTED PIPE IN ACCORDANCE WITH LOCAL GAS CODE.
- ALL GAS PIPING MATERIALS, VALVES, FITTINGS, INSTALLATION AND TESTING SHALL COMPLY WITH LOCALLY ACCEPTED PLUMBING CODE AND GAS COMPANY REGULATIONS.
- VERIFY ALL GAS BTU/H INPUTS WITH ACTUAL BTU/H INPUT OF APPLIANCE SUPPLIED.
- A BUILDING SHUT OFF VALVE SHALL BE INSTALLED ON MAIN GAS LINE AT GAS METER.



| GAS LOADS     |                |
|---------------|----------------|
| EQUIPMENT     | CFH            |
| RANGE         | 195.0          |
| CLOTHES DRYER | 20.0           |
| CLOTHES DRYER | 20.0           |
| IWH-1         | 199.0          |
| IWH-2         | 199.0          |
| <b>TOTAL</b>  | <b>633 CFH</b> |

**GAS SCHEMATIC**

| NATURAL GAS CALCULATION - LESS THAN 2 PSI:<br>SIZED PER 2012 IFGC TABLE 402.4(2). |         |
|---|---------|
| TOTAL LENGTH:   | 71      |
| 25% FOR FITTINGS:   | 17.75   |
| TOTAL DEVELOPED LENGTH:   | 88.75   |
| TOTAL LOAD:   | 633 CFH |

**NOTE:**  
INSTALL HOT WATER RECIRCULATING PIPING TO MEET THE 2015 IECC CODE.

**WATER SCHEMATIC**

| NO. | DESCRIPTION    | DATE     |
|-----|----------------|----------|
| 1   | FINAL SCHEME   | 02.01.19 |
| 2   | REVISED SCHEME | 02.07.19 |
| 3   | PERMIT         | 05.24.19 |

**Radian**  
ARCHITECTURE  
127184  
713 931 0807  
713 931 0807  
713 931 0807

DAVID E. MCCARTHY  
127184  
PROFESSIONAL ENGINEER  
Date Signed: 05/24/19

|             |          |
|-------------|----------|
| Project No. | 1801.74  |
| Date        | 02/11/19 |
| Drawn by    | JG       |
| Checked by  | NL       |

Sheet No.  
**P2.4**

TEXAS ENGINEER FIRM REGISTRATION #F-15201

**ASE ENGINEERING**  
25329 Buddle rd. #402, Spring, TX 77380  
aseengineering.com © 713.300.9579

|         |        |
|---------|--------|
| JOB NO. | 190000 |
| DFT:    | EB     |
| DSN:    | DM     |
| CHK:    | DEM    |

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