



COMMUNITY DEVELOPMENT  
152 East 100 North Vernal, Utah  
435-781-5336

HERE ARE SOME REMINDERS TO HELP OWNERS, CONTRACTORS AND INSPECTORS WORK TOGETHER IN CREATING SAFE, HABITABLE HOMES IN AN EFFECTIVE AND EFFICIENT MANNER.

(NOTE: THIS LISTS THE MAIN POLICIES; SOME POLICIES MAY NOT BE SPECIFIED IN THIS DOCUMENT.)

\*\* A **\$50.00** FEE MAY BE CHARGED FOR ANY INSPECTION NOT CANCELED BY 12:00 PM THE DAY PRIOR TO INSPECTION, AN INSPECTION NOT READY AT THE TIME THE INSPECTION IS SCHEDULED (THIS TIME FRAME INCLUDES 7:00 AM TO 5:00 PM THE DAY OF INSPECTION), OR A 3<sup>RD</sup> RE-INSPECTION FOR THE SAME ITEM.

\*\* BUILDING INSPECTIONS ARE ENFORCED WITH THE LATEST VERSION OF APPLICABLE ICC AND NFPA CODES. REVISIONS BY THE STATE OF UTAH ARE ALSO ENFORCED, AS WELL AS APPLICABLE UINTAH COUNTY REVISIONS AND ZONING ORDINANCES. OWNERS AND/OR BUILDERS ARE EXPECTED TO HAVE KNOWLEDGE AND UNDERSTANDING OF THESE CODES, AND ARE ENCOURAGED TO OWN A COPY OF THEM. CODE BOOKS CAN BE PURCHASED AT: <http://www.iccsafe.org/e/category.html>

\*\* BUILDING PERMIT OR A CLEAR COPY OF THE PERMIT ARE REQUIRED TO BE IN PLAIN SIGHT ON THE JOB SITE. THIS HELPS FACILITATE SUBCONTRACTORS WHEN SCHEDULING INSPECTIONS.

\*\* THE ADDRESS MUST BE CLEARLY POSTED ON HOUSE OR PROPERTY AND MUST BE VISIBLE FROM THE ROAD. IF ADDRESS IS NOT POSTED, INSPECTION MAY NOT BE DONE.

\*\*THE APPROVED SET OF BUILDING PLANS SHOULD BE LOCATED AT THE CONSTRUCTION SITE FOR ALL INSPECTIONS. IF THE PLANS ARE NOT AVAILABLE THE INSPECTION MAY FAIL.

\*\* SETBACKS SHOULD BE NOTED AND CHECKED BY CONTRACTOR. PROPERTY CORNERS MUST BE CLEARLY MARKED AT THE TIME OF FOOTING INSPECTION (IF NOT, THE INSPECTION MAY FAIL.)

\*\* RE-INSPECTIONS ARE OFTEN BEING ABUSED. CONTRACTORS SHOULD BE AWARE THAT IF PROBLEMS ARE WRITTEN UP, THEY ALL NEED TO BE CORRECTED BEFORE CALLING IN FOR A RE-INSPECTION. AFTER THE 2<sup>ND</sup> RE-INSPECTION, A \$50.00 FEE WILL BE REQUIRED PRIOR TO THE 3<sup>RD</sup> INSPECTION.

\*\* A LADDER IS NEEDED TO VIEW ATTIC INSULATION ON FINAL INSPECTIONS.

\*\* IF A CERTIFICATE OF OCCUPANCY IS NOT RECEIVED PRIOR TO OCCUPANCY, YOU MAY BE ISSUED A CITATION.

Items Required Prior to Inspections	Required at Time of Inspection	Required Signatures
Geotechnical Data and Compliance (when applicable)	Footing	Geotechnical Engineer
Post the Property with Owners Name, Address and Permit Number	All	
Gas Line Sizing and Installation Plan	Gas Line	
Truss Specifications	Framing	Engineer
Insulation Certification	Final	Insulation Contractor
Water and Sewer Connection Letter	Final	Water & Sewer District
Septic Operating Permit (when applicable)	Final	Tri-County Health
Fire Marshal Final Approval Letter (when applicable)	Final	Fire Marshal
List of all contractors that were used	Final	Owner/Contractor

## UINTAH COUNTY TYPICAL BUILDING INSPECTIONS

**Inspection Request:** It shall be the duty of the holder of the permit or their duly authorized agent to notify the Building Department when work is ready for inspection. It shall be the duty of the permit holder to provide access to and means for inspection of such work that is required by the County. Inspections shall be scheduled a minimum of 24 hours prior to an inspection by calling 435-781-5336. If inspections are not ready or are canceled the day of the scheduled inspection there may be a **\$50.00 Re-inspection Fee** that shall be paid prior to scheduling another inspection.

**Approval Required:** Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the Building Official or his designee. After the inspection, any portion of the construction that fails to comply with the code shall be corrected and shall not be covered until authorized by the Building Official or his designee.

**Certificate of Occupancy:** No building or structure shall be used or occupied until the Building Official has issued a Certificate of Occupancy.

### Inspections That May Be Required For Your Structure (This list is not exhaustive)

#### 1- Construction Power Inspection

Pedestal or meter base shall be installed with weather proof GFCI outlets in place and ready to be energized.

#### 2- Footing/Setback Inspection

ALL Property corners shall be correctly marked with a lath and ribbon and shall be visible.

#### 3- Lowest Floor Elevation (flood areas)

In flood hazard areas, upon placement of the lowest floor, including the basement, and prior to future vertical construction, the elevation certification required by Section 612.5 shall be submitted to the Building Official verifying final elevation of the floor.

#### 4- Foundation Inspection

\*Manufactured homes in parks require a tie down inspection after footing foundation or stand systems are in place and home is set. Double wide homes will include a marriage line lag inspection as well.

#### 5- Weather-proofing Basement Walls

Weather-proofing shall be applied on the exterior of the foundation wall from top of footing to top of grade.

#### 6- Concrete Slab and Under-floor Inspection

Concrete slab and under-floor inspection shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheeting installed, including sub-floor.

#### 7- Roof Inspection

Roof decking nailed off with roof underlayment/flashing and ice shield in place, prior to the installation of shingles.

#### 8- Exterior sheeting/ sheer Inspection

Exterior sheeting nailing inspection required prior to covering with any exterior weather barriers or systems

#### 9- Weather barrier, lath or brick flashing Inspection

Stucco requires a lath inspection & brick requires a flashing inspection prior to covering. All other exterior covering require a exterior weather resistive barrier inspection prior to covering.

#### 10- Frame/ 4-way Inspection

Framing/4-way inspection shall be made after the roof deck or sheeting, all framing, fire blocking and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing tested, heating ducts, gas pipes are tested and approved. The home shall be completely dried in from the weather and all exterior weather barriers installed flashed and sealed per manufactures installation requirements for the products being used.

#### 11- Energy Efficiency Inspections (insulation)

Inspections shall be made to determine compliance with the IRC Chapter 11 and shall include, but not be limited to, inspections for: envelope insulation R and U value, duct system R value, HVAC and water-heating equipment efficiency. A ladder shall be provided for inspection of the attic.

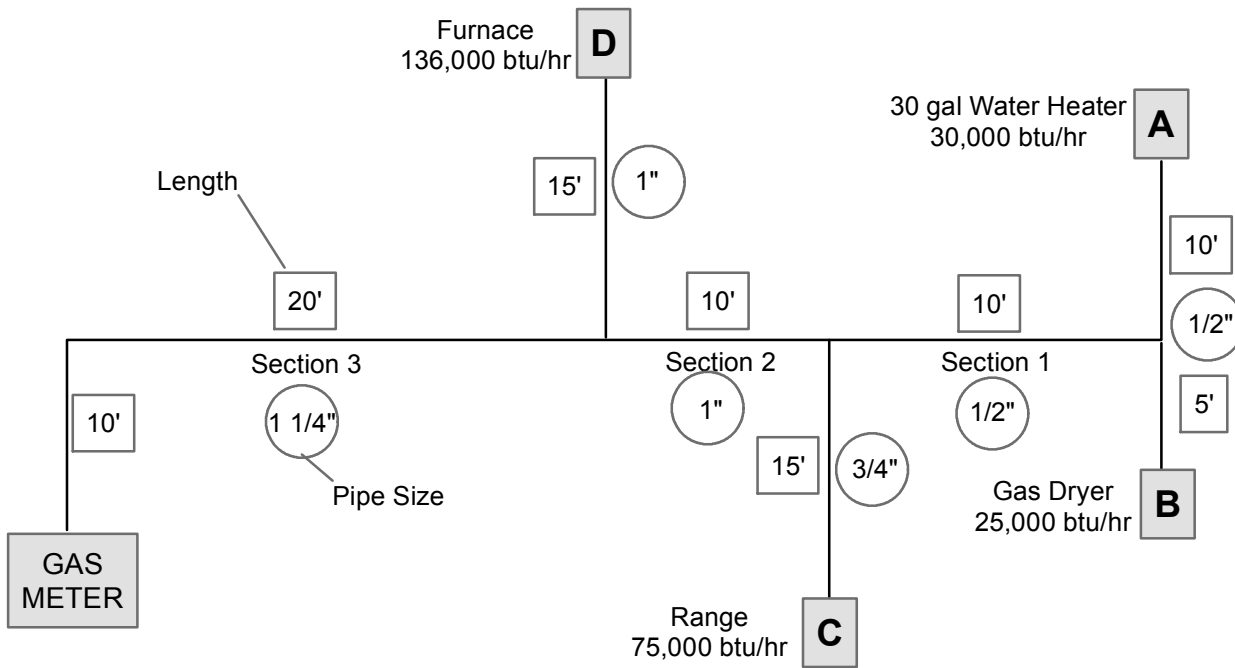
#### 12- Drywall Inspection

Prior to taping of drywall, the nailing/screw pattern, and type of drywall shall be verified and approved by the Building Inspector when there is living space above the garage or there are required fire separations in townhomes and/or two family dwellings.

#### 13- Final Inspection

The final inspection shall be made after all work required by the Building Permit is completed. You will be required to provide the inspector with a ladder for attic access where applicable.

# Example Gas Line Schematic



## SOLUTION AND EXAMPLE: (Rated input/908 BTU=CFH)

"A"-  $30,000/908=33$  Cubic Feet per Hour (CFH)

"B"-  $25,000/908=28$  CFH

"C"-  $75,000/908=83$  CFH

"D"-  $136,000/908=150$  CFH

Total Demand=294 CFH

## LONGEST LENGTH/RUN

Meter to Water Heater is 60 feet.

Using tables IV, V or VI in Questar's "Good Practices for Gas Piping" manual, pages 41-45, you can find out what the size of your pipes should be. (If your exact length or CFH is not listed always round up.) You can find the manual on line at:

<http://www.co.uitah.ut.us/comdev/bldg/Questar%20Good%20Practices%20for%20Gas%20Piping%20and%20Appliance%20Installations.pdf>

## SOLUTION

Example Line From Table

		Pipe Size (inches)									
		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
Longest Run	60'	66 CFH	138	260	530	810	1,520	2,400	4,300	8,800	28,400

**TABLE R402.4.1.1  
AIR BARRIER AND INSULATION INSTALLATION**

COMPONENT	AIR BARRIER CRITERIA <sup>a</sup>	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.	
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
Floors (including above garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.	
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity space.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.	
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

**TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT<sup>a</sup>**

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>b, e</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>i</sup>	FLOOR R-VALUE	BASEMENT <sup>c</sup> WALL R-VALUE	SLAB <sup>d</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>c</sup> WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13 + 5 <sup>h</sup>	8/13	19	5/13 <sup>f</sup>	0	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13 + 5 <sup>h</sup>	8/13	19	10/13	10. 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13 + 5 <sup>h</sup>	13/17	30 <sup>g</sup>	15/19	10. 2 ft	15/19
6	0.32	0.55	NR	49	20 + 5 or 13 + 10 <sup>h</sup>	15/20	30 <sup>g</sup>	15/19	10. 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20 + 5 or 13 + 10 <sup>h</sup>	19/21	38 <sup>g</sup>	15/19	10. 4 ft	15/19

For SI: 1 foot = 304.8 mm

a. *R*-values are minimums. *U*-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed *R*-value of the insulation shall not be less than the *R*-value specified in the table.

b. The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration.

**Exception:** Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.

c. "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Zones 1 through 3 for heated slabs.

e. There are no SHGC requirements in the Marine Zone.

f. Basement wall insulation is not required in warm-humid locations as defined by Figure N1101.10 and Table N1101.10.

g. Or insulation sufficient to fill the framing cavity, R-19 minimum.

h. The first value is cavity insulation, the second value is continuous insulation, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation.

i. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.



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## CONTRACTOR LIST

**General Contractor** \_\_\_\_\_ License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone Number \_\_\_\_\_

Email \_\_\_\_\_ Signature \_\_\_\_\_

**Concrete Contractor** \_\_\_\_\_ License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone Number \_\_\_\_\_

Email \_\_\_\_\_

**Electrical Contractor** \_\_\_\_\_ License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone Number \_\_\_\_\_

Email \_\_\_\_\_

**Plumbing Contractor** \_\_\_\_\_ License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone Number \_\_\_\_\_

Email \_\_\_\_\_

**Mechanical Contractor** \_\_\_\_\_ License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone Number \_\_\_\_\_

Email \_\_\_\_\_

**By signing below I hereby certify that** the information provided above is correct and accurate and that the listed contractors performed the work for which they are listed.

\_\_\_\_\_  
Owner or authorized agent signature

\_\_\_\_\_  
Date