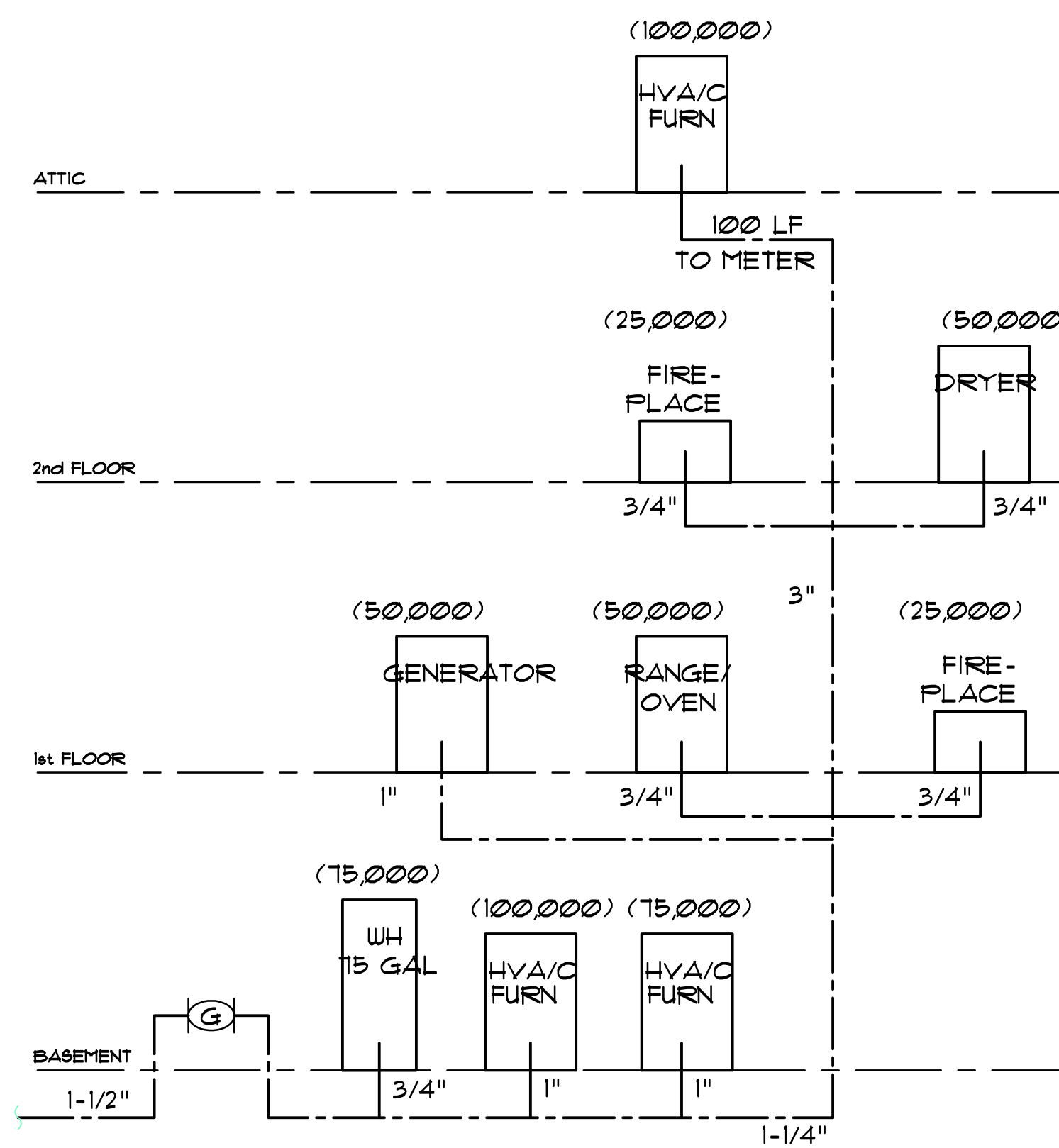


NOTE:  
ALL WATER LINES TO BATH GROUPS = 3/4"  
ALL WATER LINES TO INDIV. FIXTURES = 1/2"

### PLUMBING RISER DIAGRAM

NOT TO SCALE WITH WATER RISER INFO



### GAS RISER DIAGRAM

NO SCALE

BULL

be submitted with the permit application if the applicant is choosing this compliance option. Inspections for this program are handled by the utility company or its consultant, except that Section 403, entitled "Systems," of the 2009 IECC must be verified by the local construction office. Upon application for a new home's Certificate of Occupancy, the Home Energy Rating Scale certificate or equivalent (i.e. passing final inspection report) should be submitted.

**4. COMPLIANCE WITH PRESCRIPTIVE PACKAGE:** Previous adoptions of the energy subcode allowed for the use of a prescriptive package based on climate zone location and window-to-wall ratios. Following are the applicable portions of Table 402.1.1 of the 2009 IECC that can be applied as a prescriptive package. The applicant need only identify that he/she is using the prescriptive package and then show the corresponding details on the plans. If a proposed building has window percentages and U factors (a measure of the windows' efficiency) that are equal to or lower than the values found on the appropriate line in the chart, and R values that are equal to or higher than those listed in the chart, the building complies.

VALUES PROVIDED

Page 2 of 8

Climate Zone	Fenestration U-Factor <sup>a</sup>	Fenestration U-Factor <sup>b</sup>	Skylight U-Factor <sup>c</sup>	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value	Slab R-Value & Depth	Draw Space Wall R-Value
4	0.35	0.6	38	13	5/10	19	10/13	10, 2 ft	10/13	
5	0.35	0.6	38	20 or 13+5 <sup>d</sup>	13/17	30 <sup>e</sup>	10/13	10, 2 ft	10/13	

**INSULATION & FENESTRATION REQUIREMENTS BY COMPONENT<sup>a</sup>**

a. R-values are minimums. U-factors are maximums. R-19 batts compressed into a nominal 2 x 6 framing cavity such that the R-value is reduced by R-1 or more shall be marked with the compressed batt R-value in addition to the full thickness R-value. (Compressed R-values should be obtained from the manufacturer.)

b. The fenestration U-factor column excludes skylights. In addition, the corresponding solar heat gain coefficient (SHGC) column has been removed from this table as NJ has no requirements (NR) for SHGC.

c. "10/13" means R-10 continuous insulated sheathing 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.

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

f. "13+5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, insulated sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2. The second R-value applies when more than half the insulation is on the interior of the mass wall.

Note: Table 402.1.1 applies to typical wood-framed construction. Steel-framed construction equivalents are different and may be found in Table 402.2.5 of the 2009 IECC.

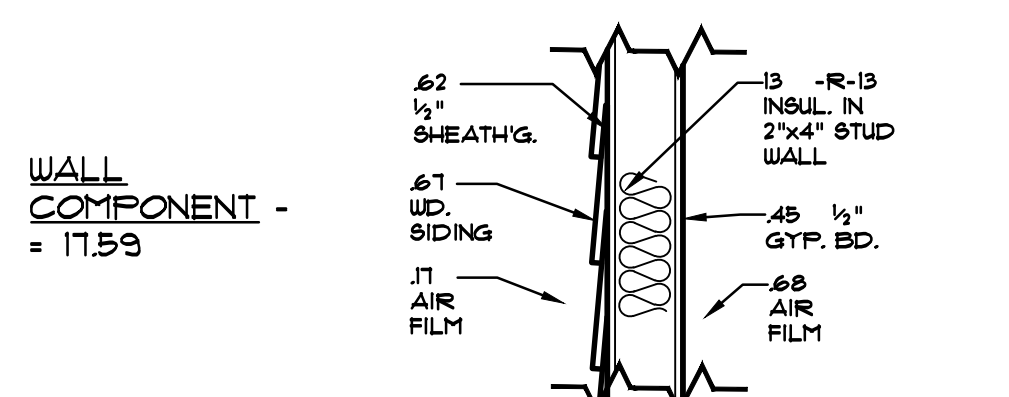
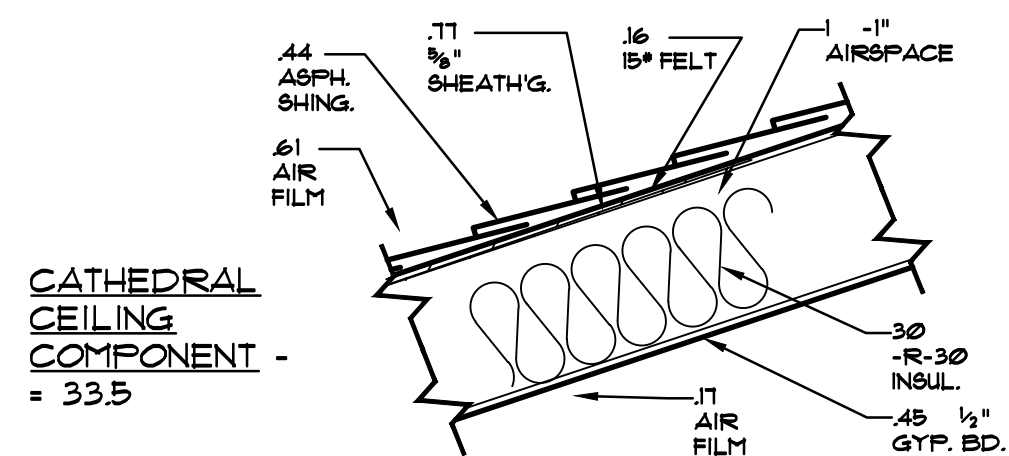
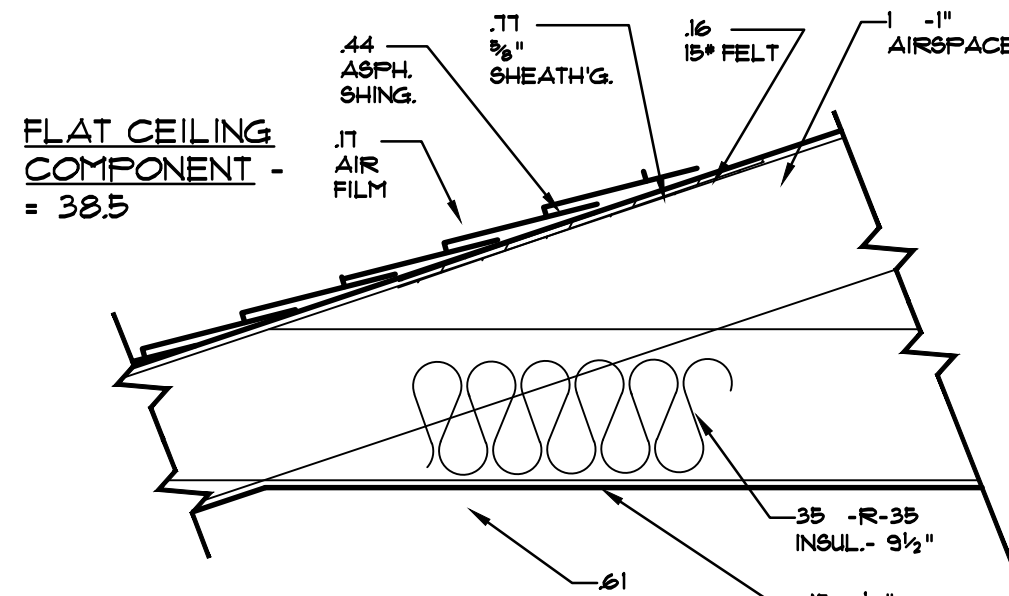
Regardless of the compliance method chosen, the documentation must be signed and sealed by a design professional, except that in Class 3 buildings as described at N.J.A.C. 5:23-4.3A(d), the documentation may be signed by the mechanical contractor, and in the case of a single-family detached dwelling where the homeowner resides or intends to reside in the dwelling, the homeowner may sign the energy code compliance documentation.

Commercial buildings are defined as all buildings other than low-rise residential buildings. Compliance must be in accordance with the Energy Subcode and 2009

BULLETIN NO.

11-1

BULL



GLASS COMPONENT - U = 0.35

FLOOR COMPONENT - = 33.60

BASEMENT WALL COMPONENT - = 17.11

SLAB PERIMETER COMPONENT - = 10.4

### ENERGY CALCULATIONS

NOT TO SCALE

8-19-13 MISCELLANEOUS REVISIONS

NO	DATE	REVISIONS

PROPOSED NEW HOME FOR

**MR. & MRS. ILAN REICH**

29 CLIVE HILL ROAD  
SHORT HILLS, N.J. 07078

PLUMBING RISER DIAGRAM  
GAS RISER DIAGRAM, AND  
ENERGY CALCS



**JAMES S. KARAS, ARCHITECT**

27 BRIAR HILLS CIRCLE  
SPRINGFIELD, N.J. 07081  
TEL. 973 - 467 - 9340  
FAX 973 - 467 - 9353

DATE: JULY 14, 2013

JOB NO: 13-0806

SCALE: AS NOTED

DWN. BY: J.K.

DWG. NO: A-9

CHECKED: J.K.

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