

Rough Framing Inspections











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FAX: 814-753-4501
CELLULAR: 814-360-7800

BRENNAN L. GLANTZ, PE
BRENNAN@ENGPROJECTS.COM

07/11/06

Mr. Tim Madden
S & A Homes
800 Science Park Road
State College, PA. 16803

RECEIVED
JUL 11 2006



RE: Plan Review for Job #: 119124 - "Edgewood 910AR"
2542 Autumnwood Drive, State College, PA 16801
Gilbert Hendricks III and Valerie Phillips
Hunter's Chase #124

Dear Mr. Madden:

I have reviewed the 06/26/06 plan set for the above referenced project for the following structural items with respect to the 2003 International Residential Code.

- The building has been checked for compliance with the lateral bracing requirements of the code and is in conformance with the prescriptive design guidelines therein.
- All beams, headers, and flush joist members and their indicated supports are adequate as depicted on the plan set.
- The pad footings at the foundation level are compliant with code requirements.
- The Georgia Pacific 'WI40' series floor joists are adequate to supply 'L/480 improved performance' as defined by the Code.

Please call me directly at 814-360-7800 if you have any questions regarding this information.

Regards,

Brennan L. Glantz, PE

CENTRE REGION CODE ADMINISTRATION
APPROVED
Permit # C2006-1096
Reviewed By [Signature]
NOTE: This permit approval shall not prevent the Code Office from hereafter requiring the correction of an error in either the plans or construction.
SHEET 1 OF 24



**National Society of
Professional Engineers®**
Signatory, NSPE Licensed Member



It says here on
the plans...



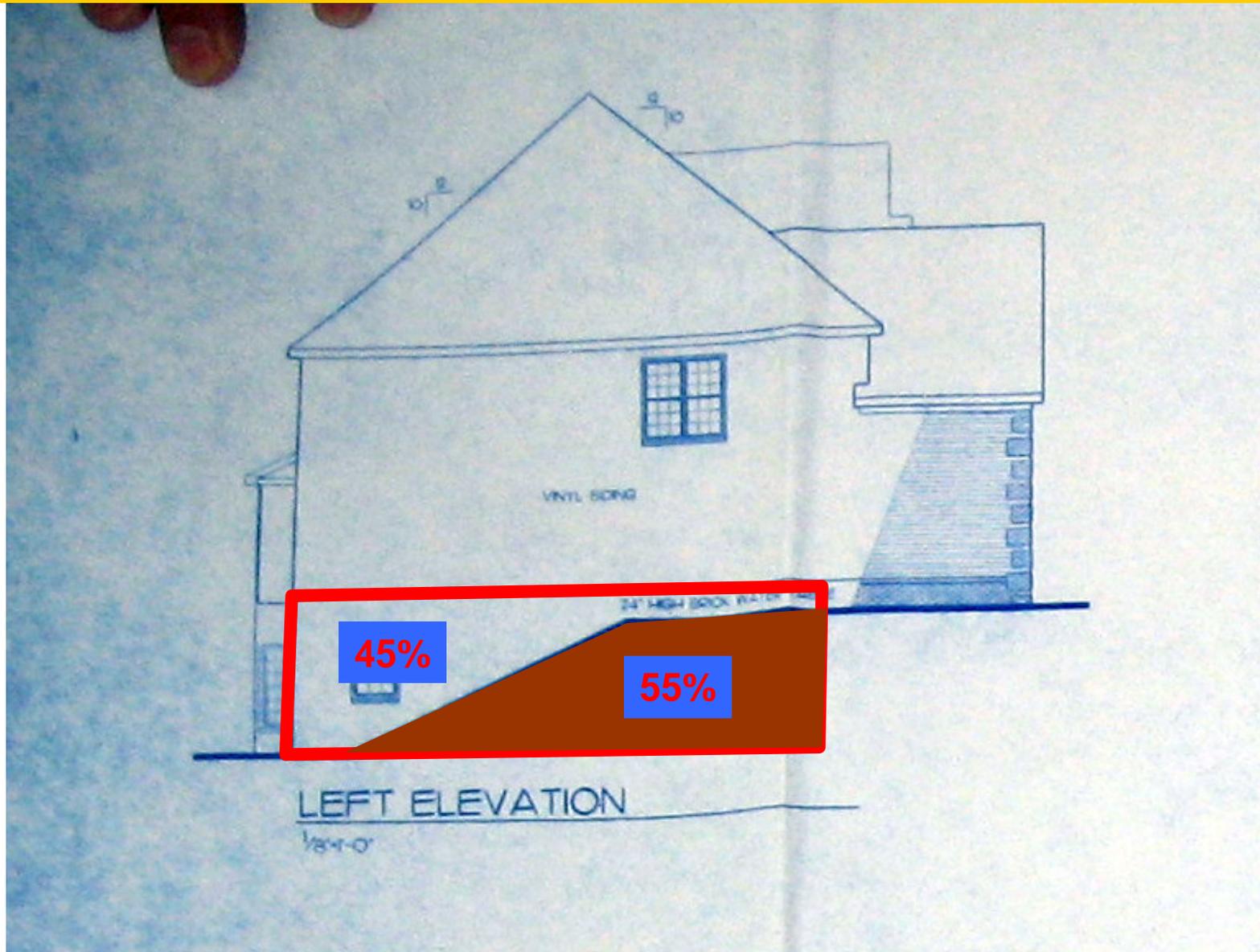
STOP

Review Plans

Compare Elevations with Plan

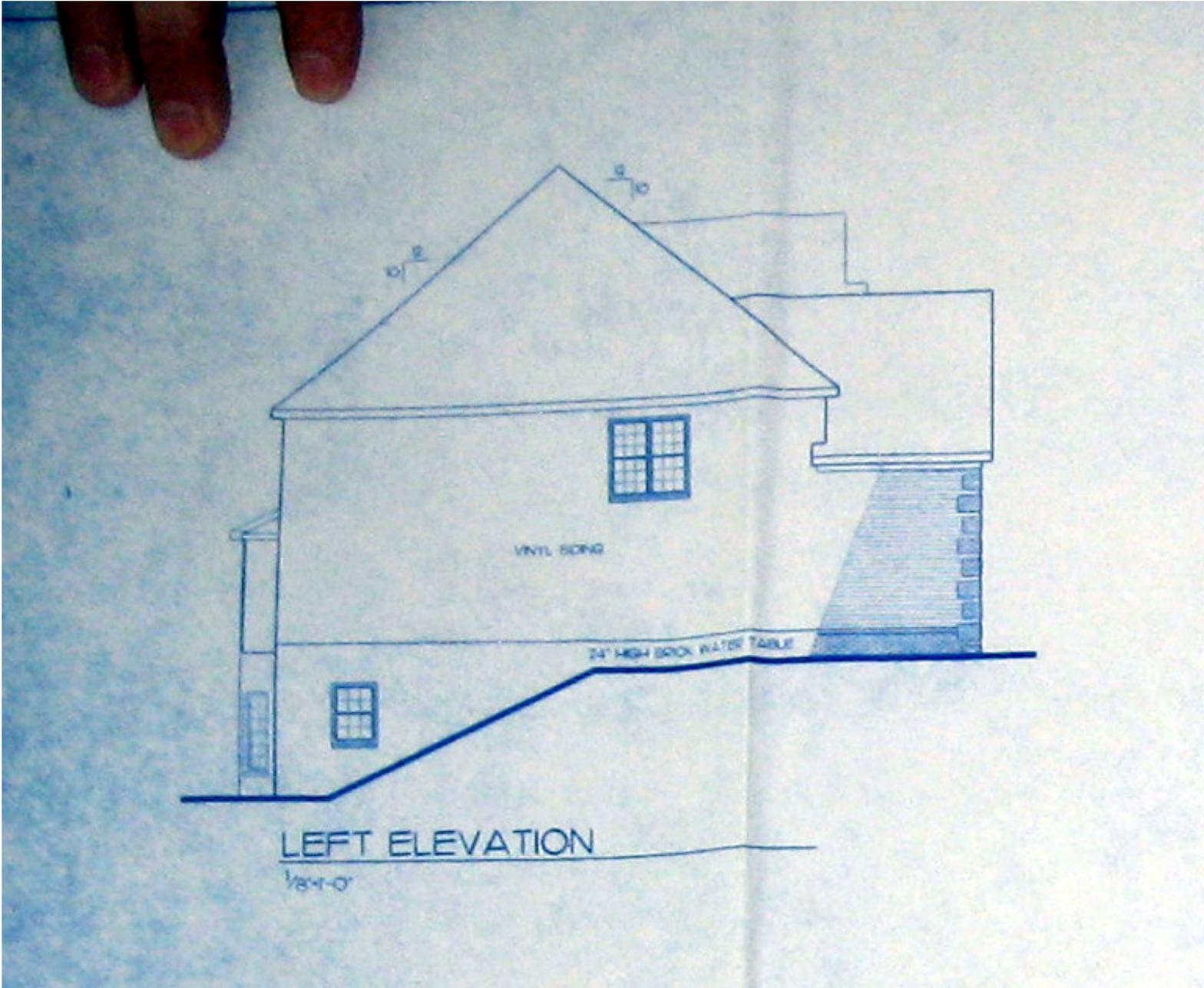
- Is it the same model as on plans?
 - Differing options will affect REScheck
- Grading (if conditioned basement)
- Windows

Basement Wall: R-10/13



Above Grade Wall: R-19





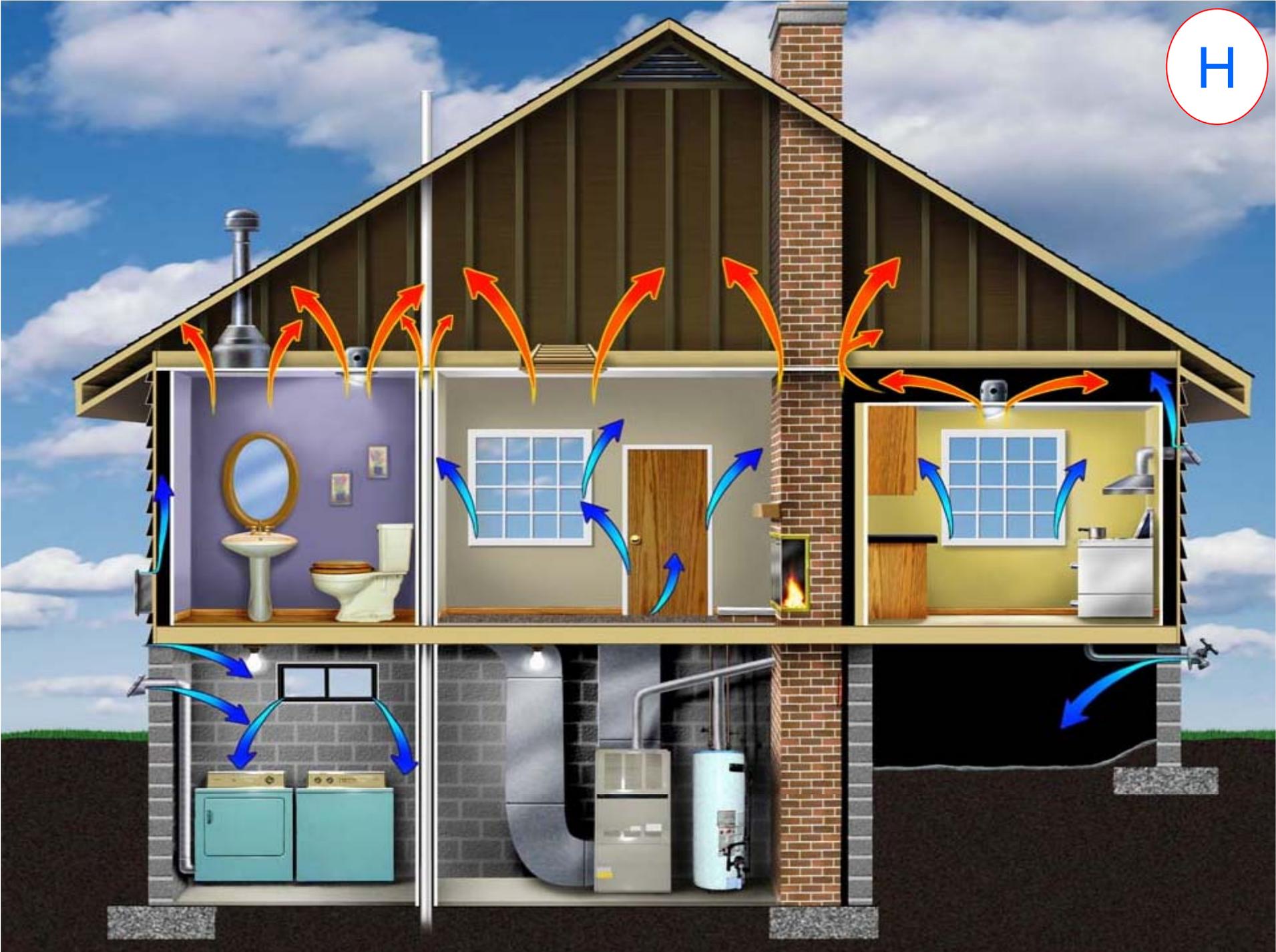


Insulation behind Tubs and Showers





H



Air Sealing

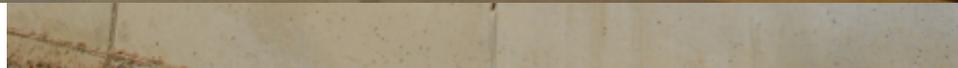
★ Sheathing and housewrap ★

- Penetrations
- Joints
- Windows and doors
- Other leakage pathways





Seal seams





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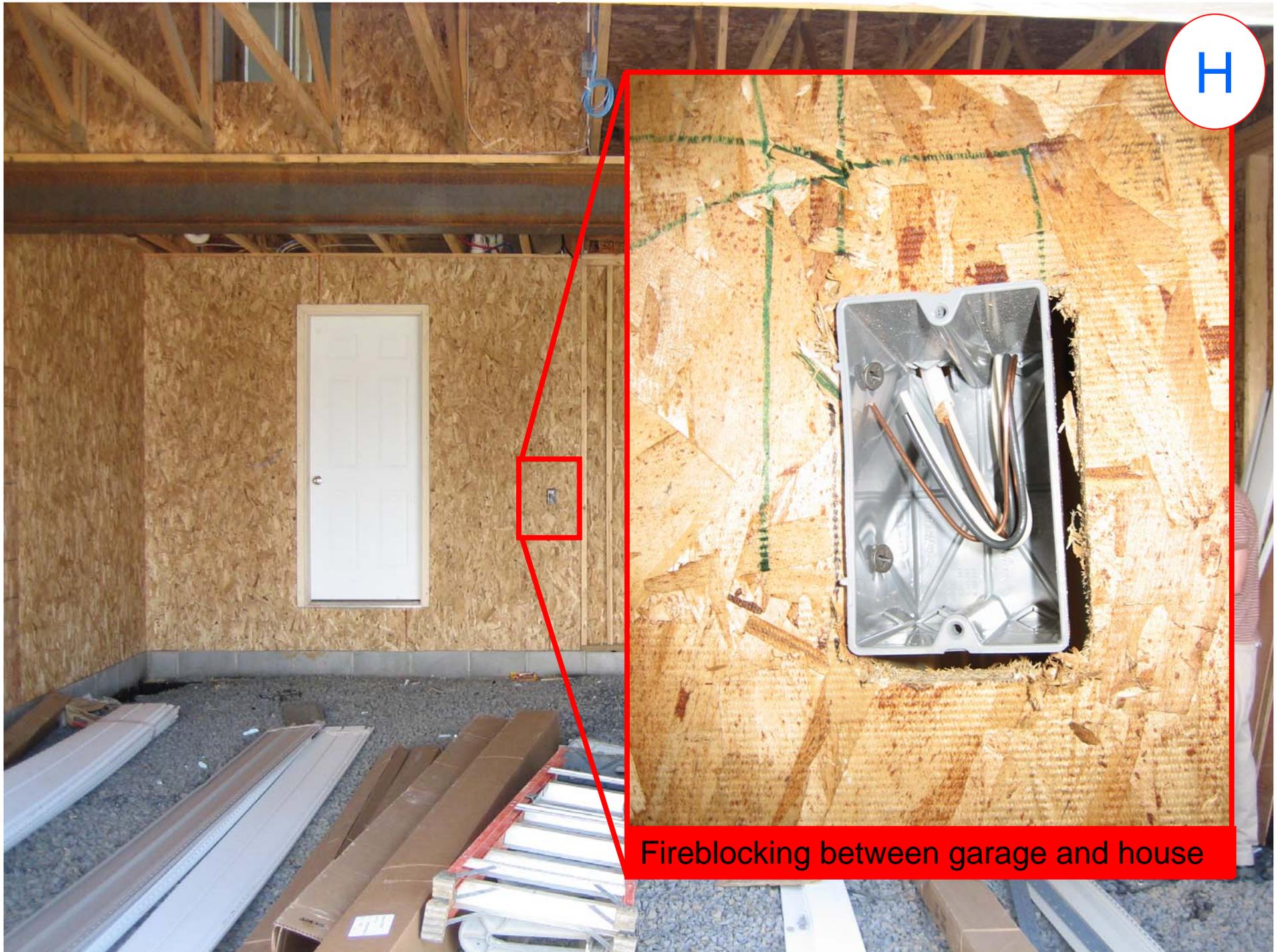


Air Sealing

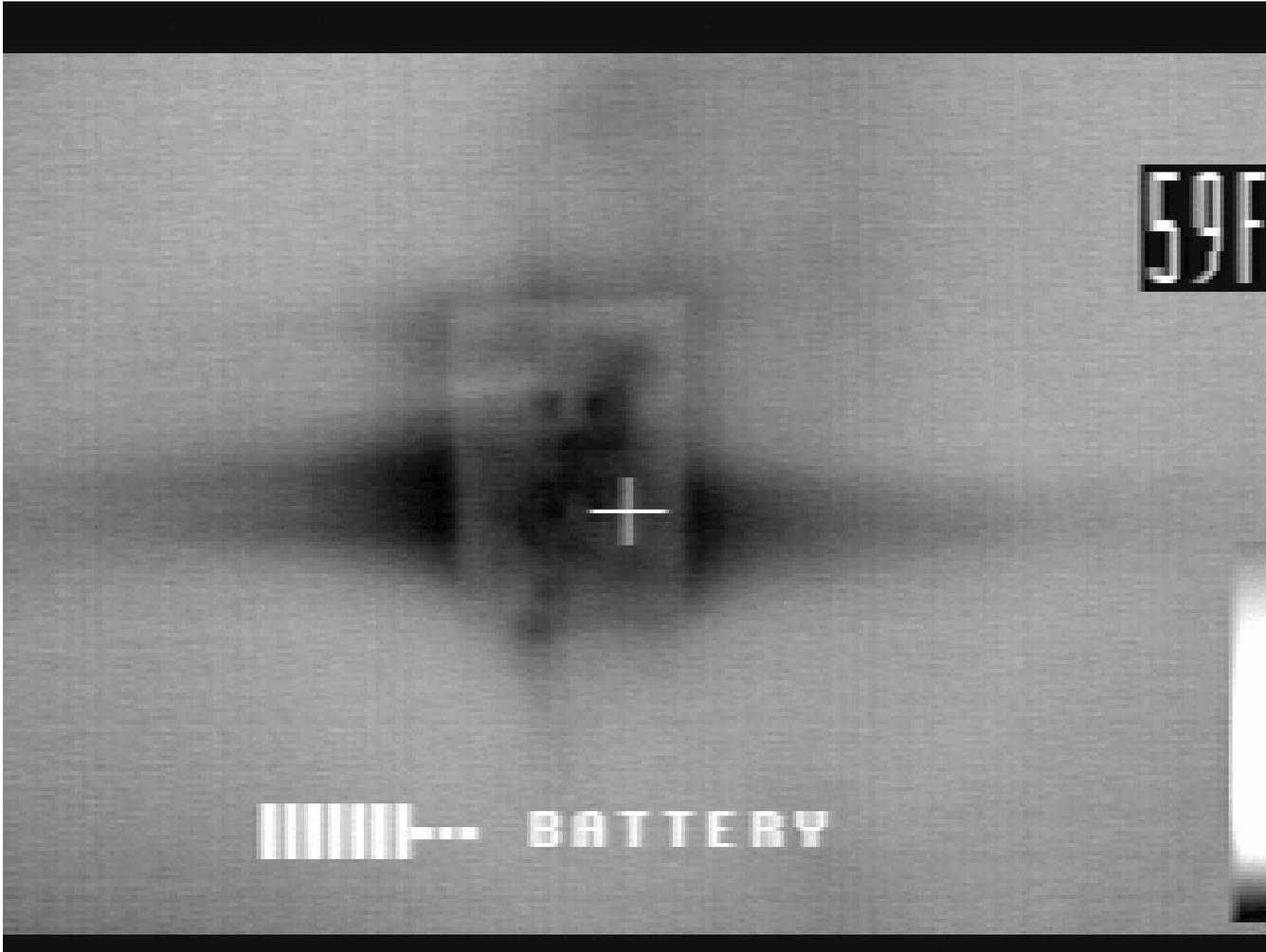
- Sheathing and housewrap
- ★ Penetrations ★
- Joints
- Windows and doors
- Other leakage pathways

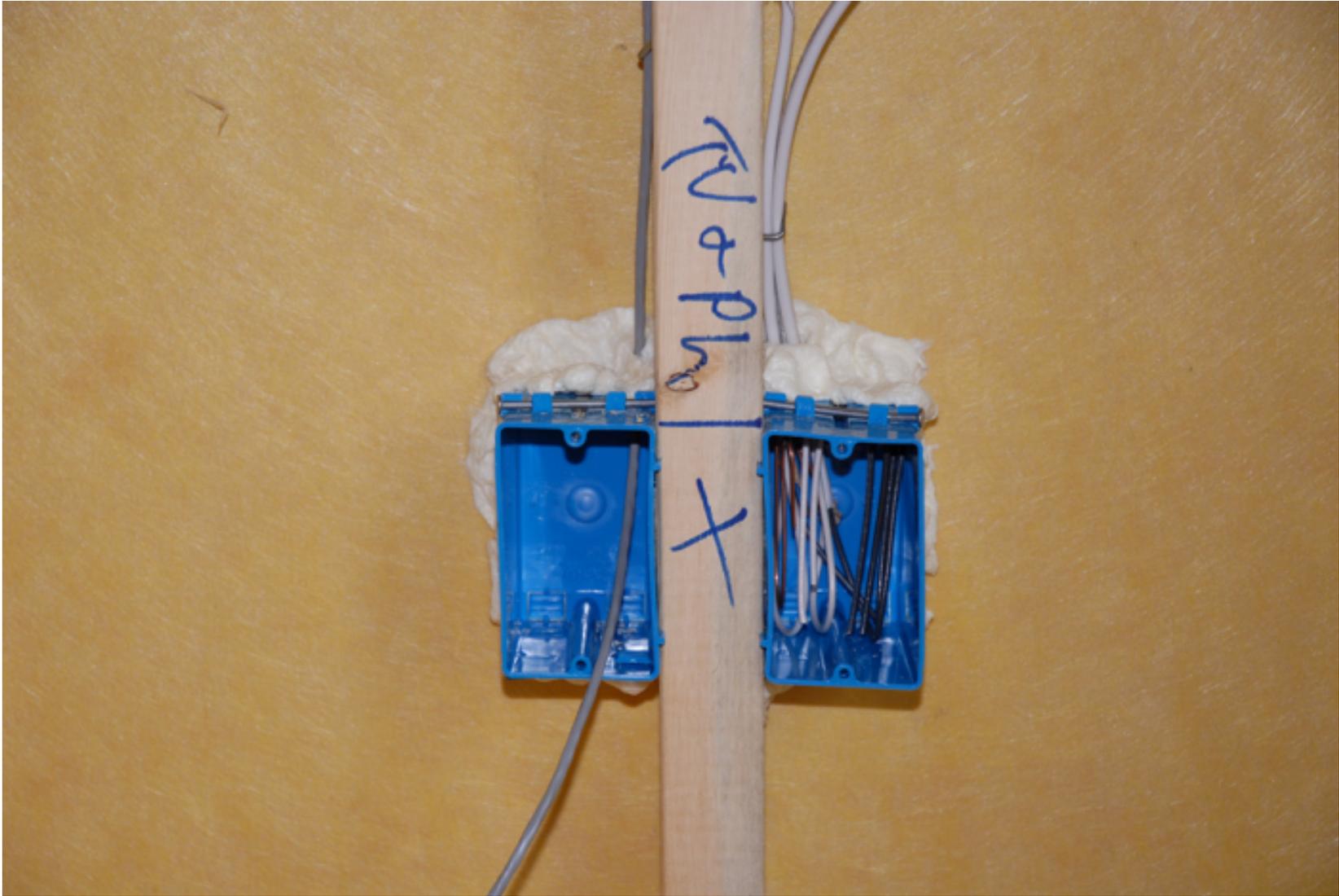


H



Fireblocking between garage and house

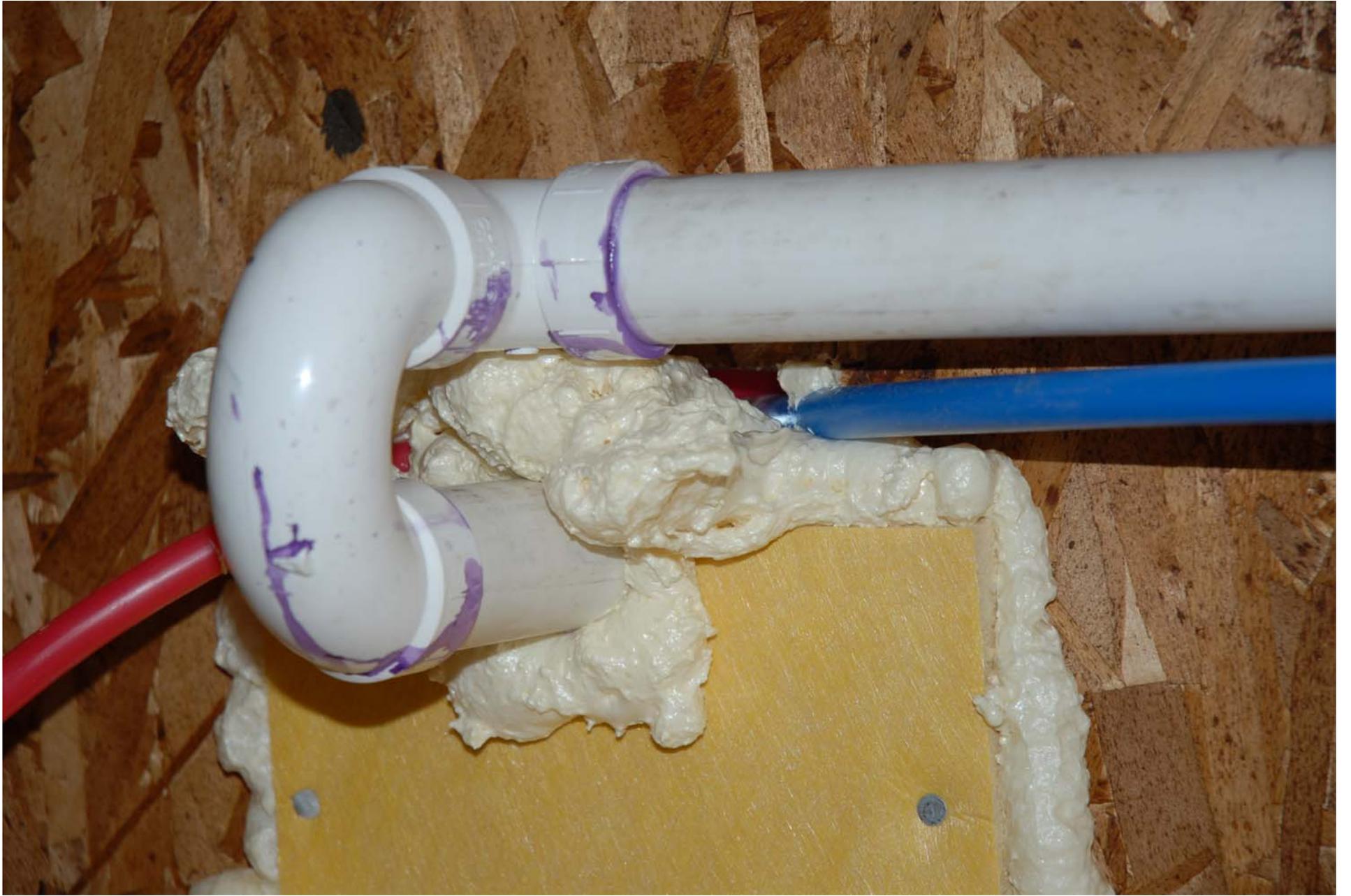






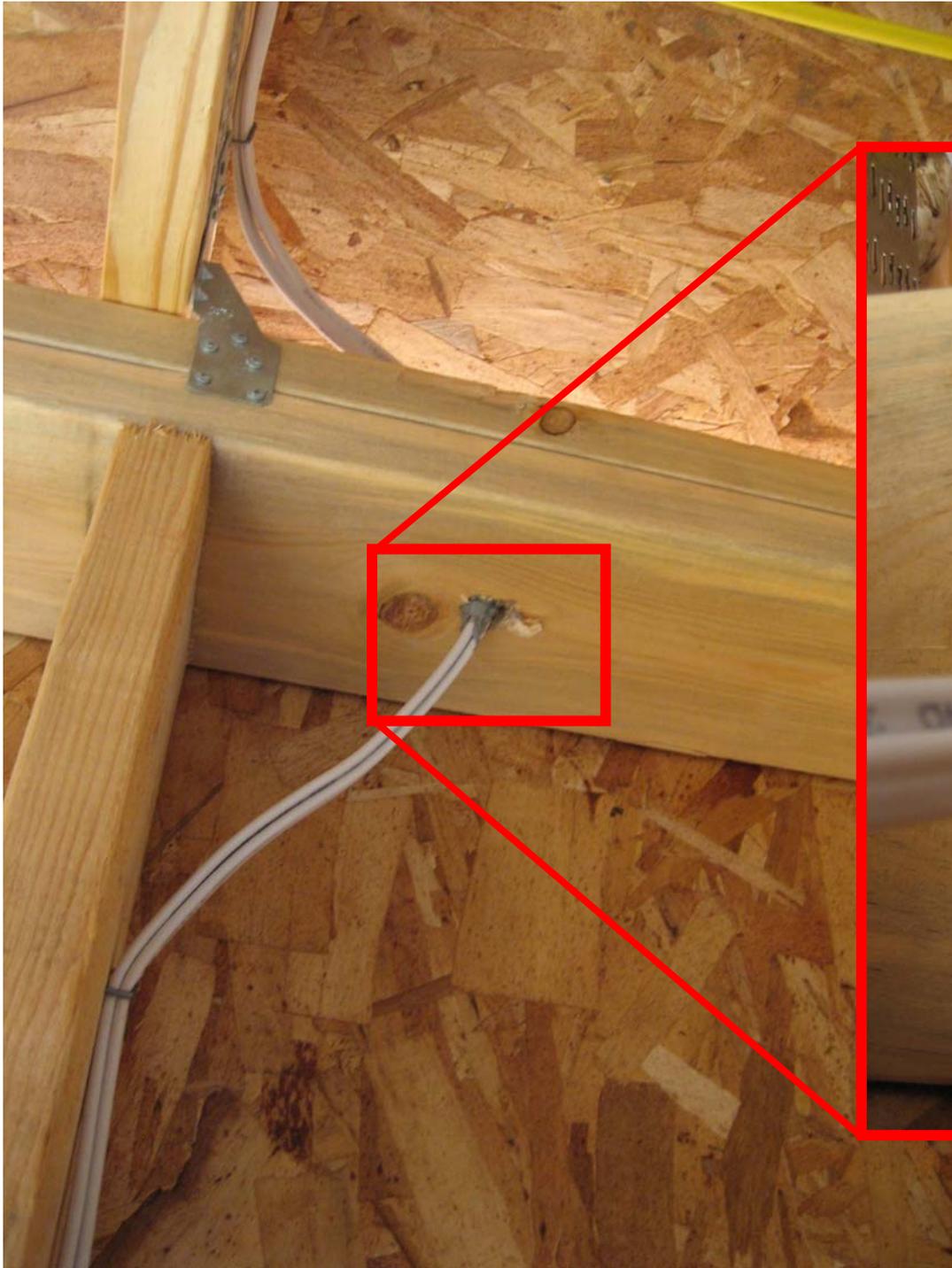










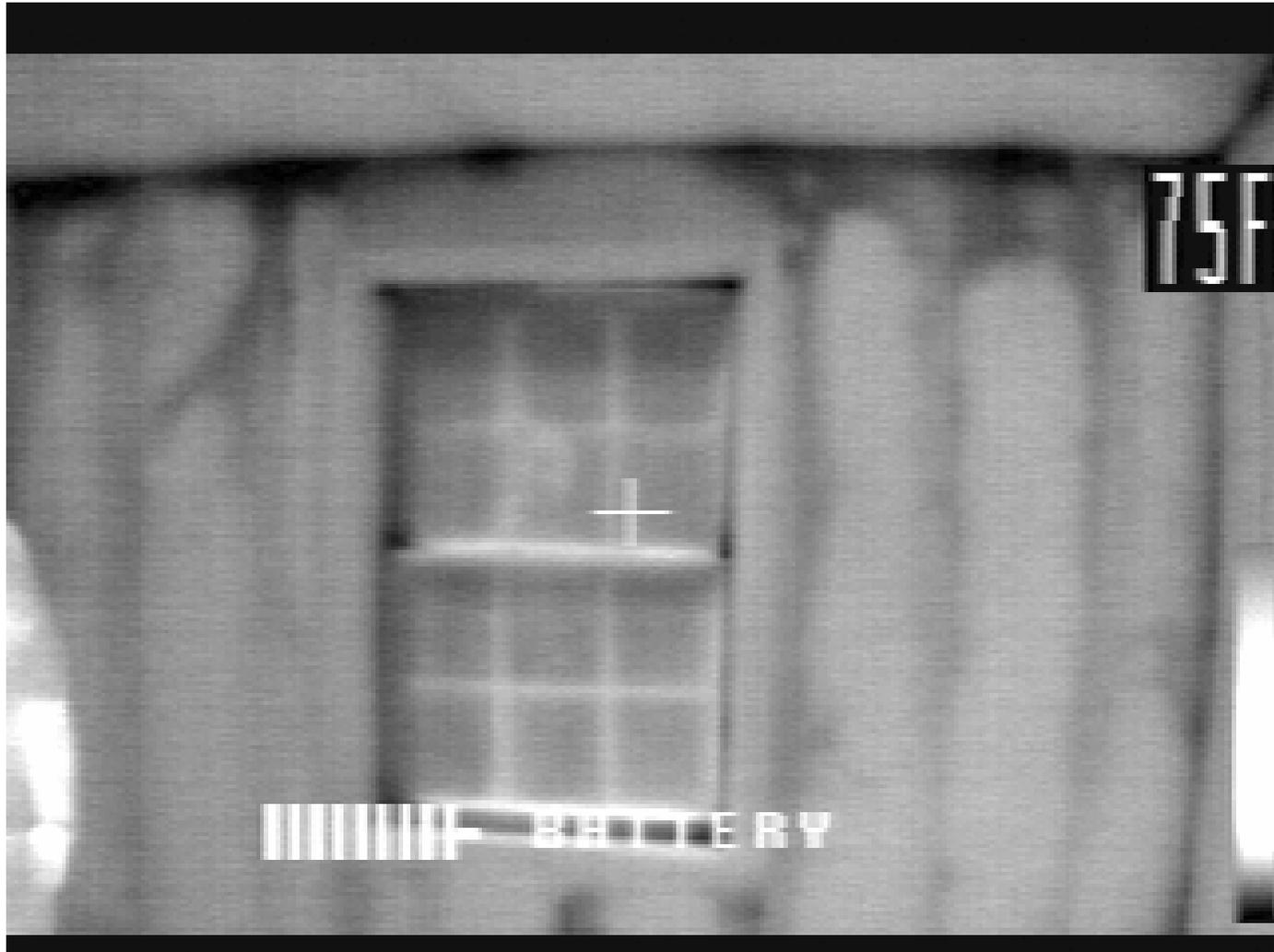


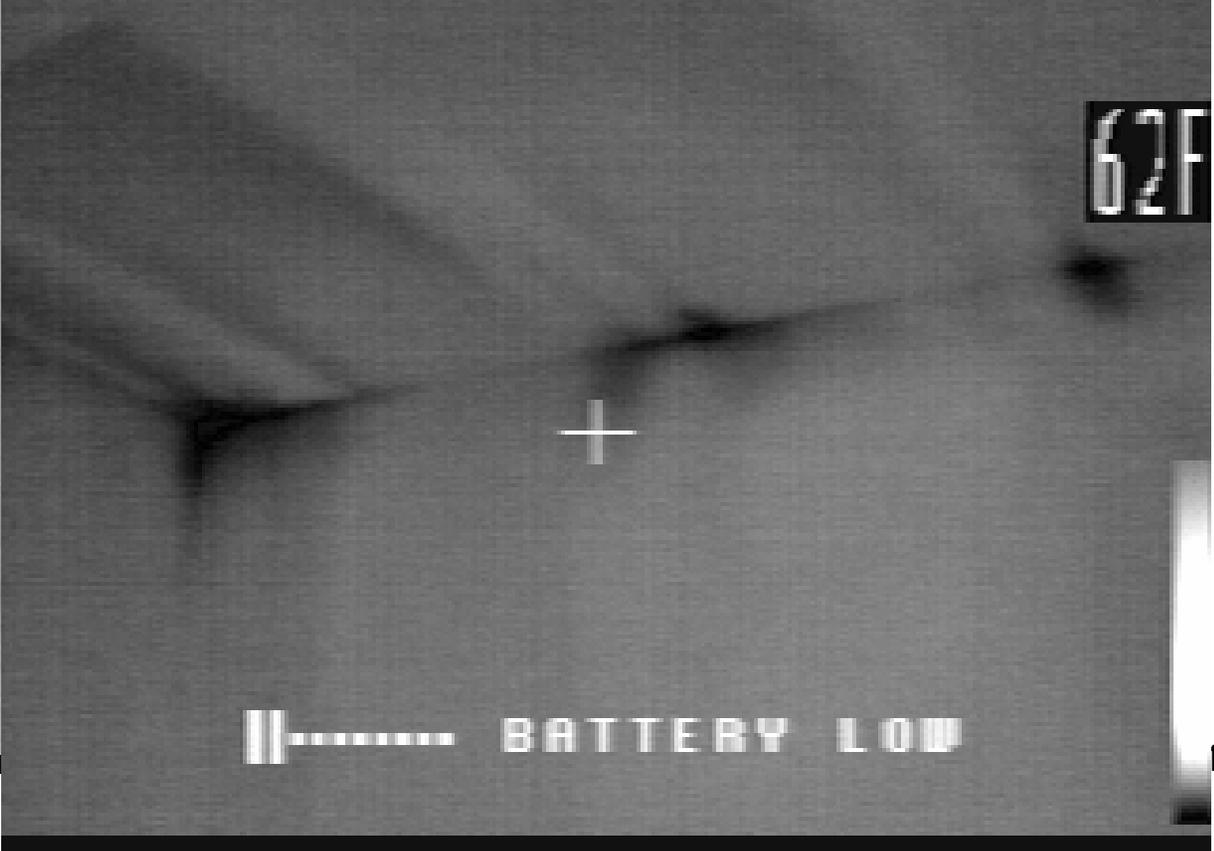
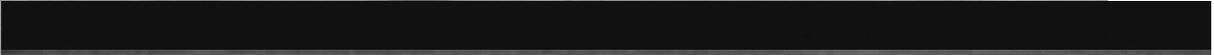
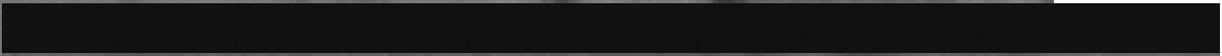
Air Sealing

- Sheathing and housewrap
- Penetrations
- ★ Joints ★
- Windows and doors
- Other leakage pathways

Caulking Joints







Air Sealing

- Sheathing and housewrap
- Penetrations
- Joints
- ★ Windows and doors ★
- Other leakage pathways





Air Sealing

- Sheathing and housewrap
- Penetrations
- Joints
- Windows and doors
- ★ Other leakage pathways ★



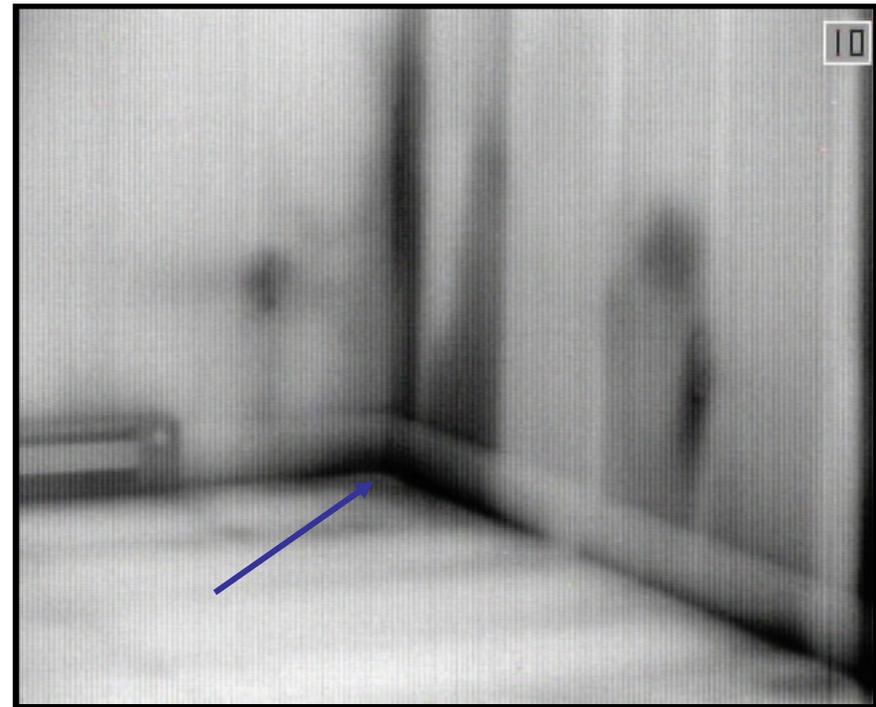
Master Bathroom —

Tempered glass
Insulation Installation
Air barrier





Electrical Receptacle & Base Plate of Second Floor Bedroom



(Garage below this second floor bonus room)



Air barrier on the back side of a kneewall











STOP

Review Plans

NFRC Labels

Compare with REScheck (if applicable)



Date: 07/

Ceiling

Ceiling
Comme

Above

Wall 1:
Comme

Wall 2:
Comme

Wall 3:
Comme

Wall 4:
Comme

Windo

Window
For win
#Pan
Comme

Note: U

Doors

Door 1:
Comme

Door 2:
Comme

Floors

Floor 1:
Comme

Windows:

Window 1: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan
Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

sealed.
2) Type IC rated
materials and a 3"

Window 2: Vinyl Frame:Double Pane, U-factor: 0.300

For windows without labeled U-factors, describe features: _____

#Pan
Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

It has been determined
re provided.

Window 3: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan
Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

have been provided.
Plans or specifications.
Insulated, and in a

Window 4: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan
Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

All fittings are sealed
or other approved

Note: Up to 15 sq.ft. of glazed fenestration per dwelling is exempt from U-factor and SHGC requirements.

se with the
off the heating and/or

International Mechanical Code.

imp when the system is

Doors:

Door 1: Solid, U-factor: 0.230

Comments: _____

:

R-values; window

Door 2: Solid, U-factor: 0.230

Comments: _____

IONES O LAS
DNA, Y EL
SUN DAÑO O
EXIÓN CON LA
EALIZADA POR

 National Fenestration Rating Council®	"3/4 Grid" Dual Glazed MFR#140
	REYNOLDSBP SERIES: 150 VINYL Picture Window Dbl str HP Low-e argon RES97
ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P) 0.30	Solar Heat Gain Coefficient 0.31
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmittance 0.52	—
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>	
 ENERGY STAR PARTNER	<ul style="list-style-type: none"><input checked="" type="checkbox"/> Northern Climate Zone<input checked="" type="checkbox"/> North/Central Climate Zone<input checked="" type="checkbox"/> South/Central Climate Zone<input checked="" type="checkbox"/> Southern Climate Zone 
This product is ENERGY STAR qualified for all regions:	
<small>This window has been tested in accordance with either ANSI/AAMA/NWDA 101/1.S.2-97, 101/1.S. 2/WAFS-02 or AAMA/WDMA/CSA 101/1.S. 2/440-05 and has a Design Pressure Pressure of 50. Applies to windows up to 50" X86" in size.</small> DP50	
This fenestration product complies with the NEW FLORIDA BUILDING CODE for residential buildings with a mean roof height of 30 ft. or less Exposure "B" and Wall Zone "5". WIND ZONE: 150 DESIGN WIND PRESSURE (DP): +40.5 / -54.2	
SEQUENCE : 00086 DEPT:047 S.O.:02320798 02320798 - 12 - 0003 - 0003 LOAD:P2616 MOD:551 Product Date: 07/20/2006	

Windows



Date: 07/

Ceiling

Ceiling
Comme

Above

Wall 1:
Comme

Wall 2:
Comme

Wall 3:
Comme

Wall 4:
Comme

Windo

Window
For win
#Pan
Comme

Note: U

Doors

Door 1:
Comme

Door 2:
Comme

Floors

Floor 1:
Comme

Windows:

Window 1: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan_es _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

sealed.
2) Type IC rated
materials and a 3"

Window 2: Vinyl Frame:Double Pane, U-factor: 0.300

For windows without labeled U-factors, describe features: _____

#Pan_es _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

It has been determined
are provided.

Window 3: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan_es _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

have been provided.
Plans or specifications.
insulated, and in a

Window 4: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan_es _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

All fittings are sealed
or other approved

Note: Up to 15 sq.ft. of glazed fenestration per dwelling is exempt from U-factor and SHGC requirements.

se with the
off the heating and/or

International Mechanical Code.

imp when the system is

Doors:

Door 1: Solid, U-factor: 0.230

Comments: _____

R-values; window

Door 2: Solid, U-factor: 0.230

Comments: _____





Date: 07/

Ceiling

Ceiling
Comme

Above

Wall 1:
Comme

Wall 2:
Comme

Wall 3:
Comme

Wall 4:
Comme

Windo

Window
For win
#Pan
Comme

Note: U

Doors

Door 1:
Comme

Door 2:
Comme

Floors

Floor 1:
Comme

Windows:

Window 1: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

sealed.
2) Type IC rated
materials and a 3"

Window 2: Vinyl Frame:Double Pane, U-factor: 0.300

For windows without labeled U-factors, describe features: _____

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

It has been determined
are provided.

Window 3: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

have been provided.
Plans or specifications.
insulated, and in a

Window 4: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features: _____

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

All fittings are sealed

or other approved

Note: Up to 15 sq.ft. of glazed fenestration per dwelling is exempt from U-factor and SHGC requirements.

Use with the

off the heating and/or

International Mechanical Code.

imp when the system is

Doors:

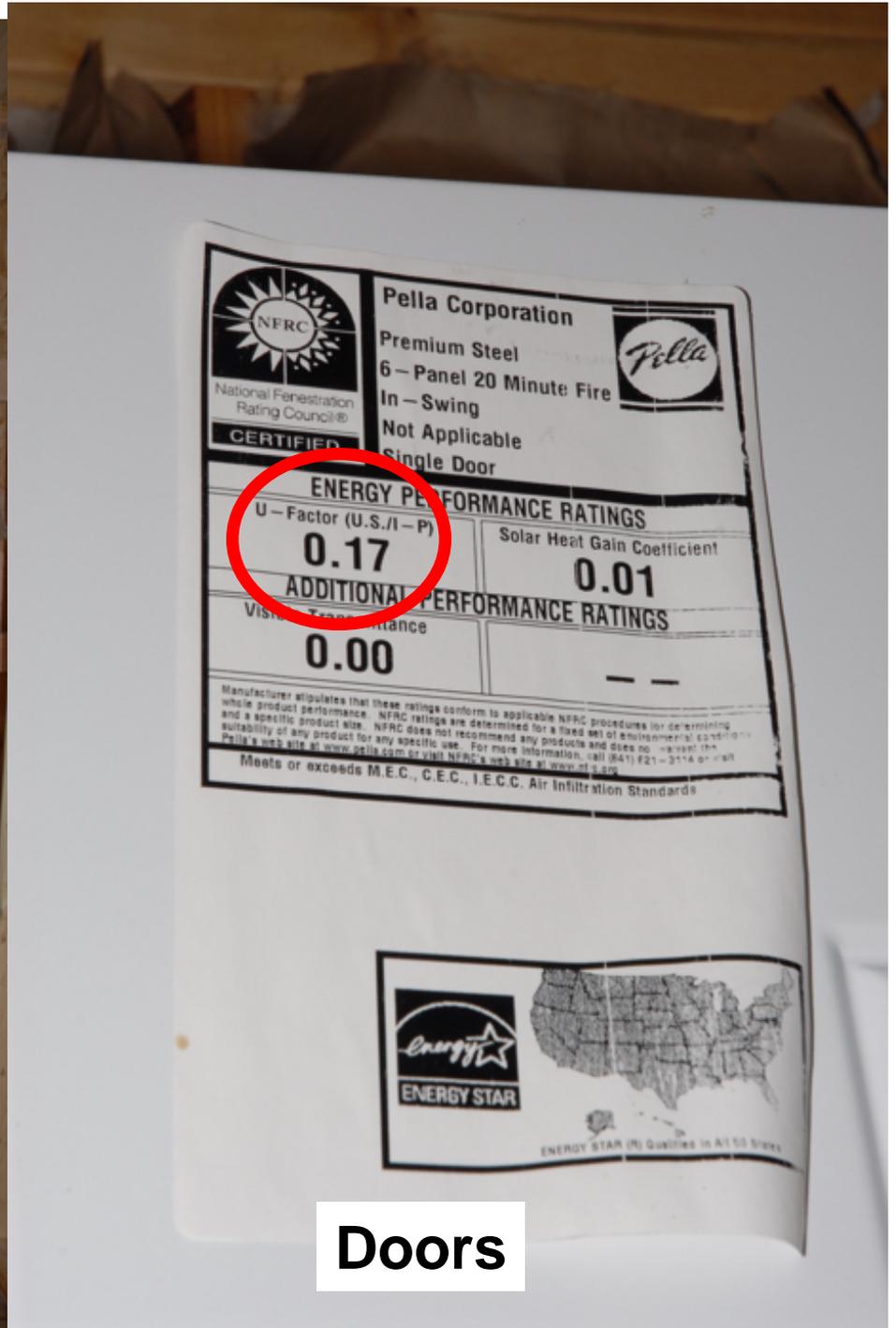
Door 1: Solid, U-factor: 0.230

Comments: _____

R-values; window

Door 2: Solid, U-factor: 0.230

Comments: _____



Doors



Date: 07/

Ceiling

Ceiling
Comme

Above

Wall 1:
Comme

Wall 2:
Comme

Wall 3:
Comme

Wall 4:
Comme

Windo

Window
For win
#Pan
Comme

Doors

Door 1:
Comme

Door 2:
Comme

Floors

Floor 1:
Comme

Windows:

Window 1: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features:

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

sealed.
2) Type IC rated
materials and a 3"

Window 2: Vinyl Frame:Double Pane, U-factor: 0.300

For windows without labeled U-factors, describe features:

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

It has been determined
no further information is
provided.

Window 3: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features:

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

Information has been provided.
Plans or specifications
are not provided, and in a

Window 4: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features:

#Pan_{es} _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

All window fittings are sealed
with caulk or other approved

Note: Up to 15 sq.ft. of glazed fenestration per dwelling is exempt from U-factor and SHGC requirements.

Use in conjunction with the
requirements of the heating and/or

Doors:

Door 1: Solid, U-factor: 0.230

Comments: _____

International Mechanical Code.
Use when the system is

Door 2: Solid, U-factor: 0.230

Comments: _____

U-values; window

GLAZE THIS SIDE IN
 IMPORTEZ CE produit sur votre côté de votre fenêtre. Étiquetez le côté de la vitre qui sera encastré dans le cadre de la fenêtre.

Thank you for choosing VELUX skylights. If at any time you have a question or concern regarding VELUX products, please call us toll-free using the number below.

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CHANG FOR THE BETTER WITH ENERGY STAR

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 IMPORTEZ CE produit sur votre côté de votre fenêtre. Étiquetez le côté de la vitre qui sera encastré dans le cadre de la fenêtre.

Merci d'avoir choisi les produits de fenêtre VELUX. Pour tous renseignements concernant les produits VELUX, veuillez communiquer avec nous au tout temps au numéro sans frais ci-dessous.

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Nouveaux classements d'encadrement de 20" de diamètre.

VELUX America Inc.
 Modèle FS (75), VELN-001
 Trempé, double couche d'enduit à faible émissivité, injecté d'argon

ENERGY STAR CERTIFIED **ENERGY STAR CERTIFIED**

ENERGY PERFORMANCE RATINGS
 U-Factor (U.S./IP) **0.48** Solar Heat Gain Coefficient **0.33**

ADDITIONAL PERFORMANCE RATINGS
 Visible Transmittance **0.55**

EVALUATION DU RENDEMENT ÉNERGETIQUE
 Coefficient d'appart pour rayonnement solaire **2,72** **0,33**

EVALUATION SUPPLÉMENTAIRE DU RENDEMENT
 Transmittance visible **0,55**

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Skylights



Windows:

- Window 1: Vinyl Frame:Double Pane, U-factor: 0.350

For windows without labeled U-factors, describe features:

#Panes _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

sealed.
2) Type IC rated materials and a 3"

Date: 07/

Ceiling

Heating and Cooling Equipment:

- Furnace 1: Forced Hot Air: 90 AFUE or higher

Make and Model Number: _____

Air Leakage:

- Joints, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed.
- Recessed lights are either 1) Type IC rated with enclosures sealed/gasketed against leaks to the ceiling, or 2) Type IC rated and ASTM E283 labeled, or 3) installed inside an air-tight assembly with a 0.5" clearance from combustible materials and a 3" clearance from insulation.

Vapor Retarder:

- Vapor retarder is installed on the warm-in-winter side of all non-vented framed ceilings, walls, and floors; or it has been determined that moisture or its freezing will not damage the materials; or other approved means to avoid condensation are provided.

Comments: _____

Window

For win

#Panes

Comme

Note: U

Doors

Door 1:

Comme

Door 2:

Comme

Floors

Floor 1:

Comme

Note: Up to 15 sq.ft. of glazed fenestration per dwelling is exempt from U-factor and SHGC requirements.

nal Mechanical Code.

mp when the system is

Doors:

- Door 1: Solid, U-factor: 0.230

Comments: _____

R-values; window

- Door 2: Solid, U-factor: 0.230

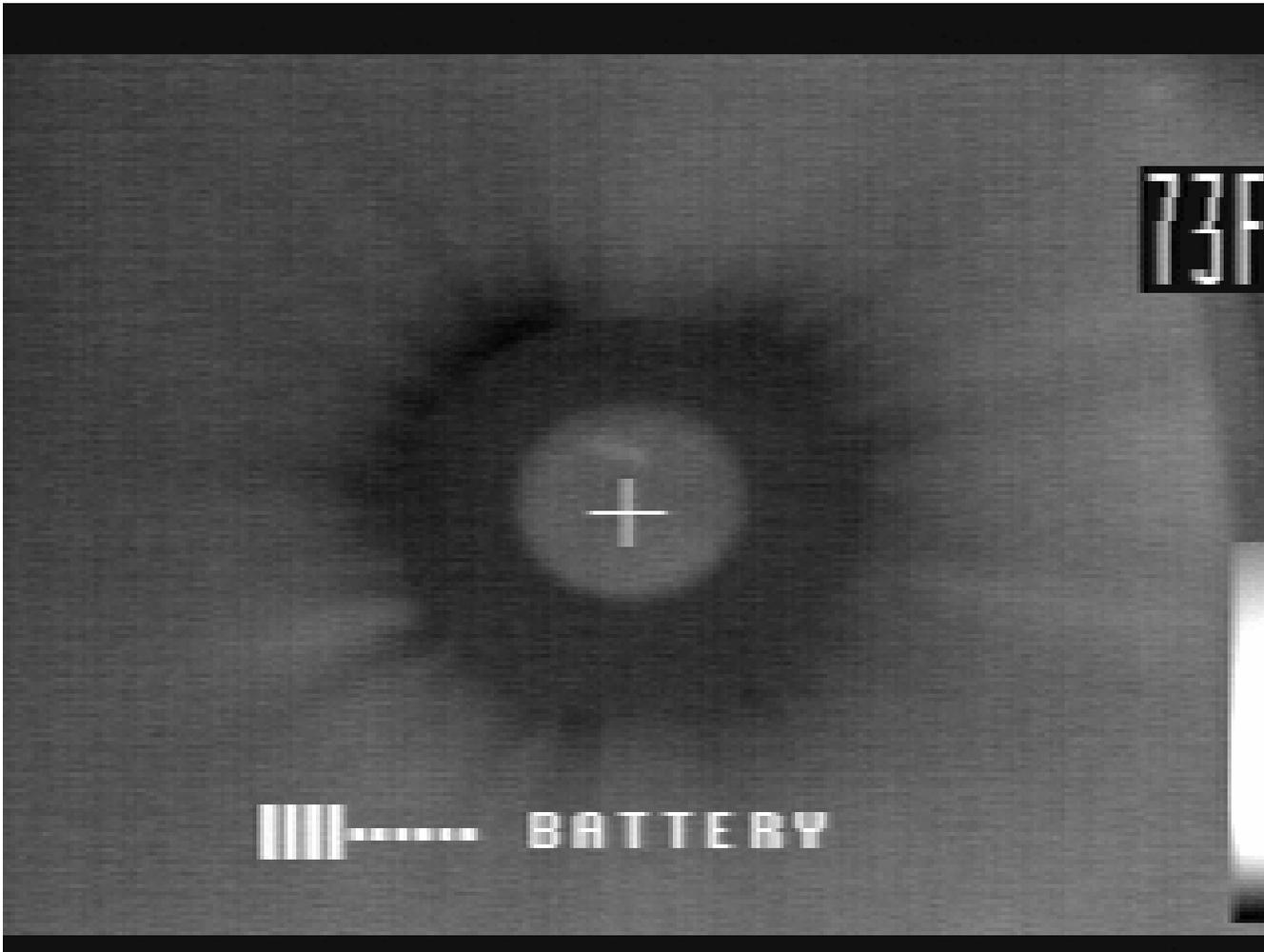
Comments: _____

Fire Blocking



Bedroom 4

Recessed (Can) Lights





Trim Kit

When properly installed

When properly installed, Halo AIR-TITE housings provide compliance with Restricted Air Flow Regulations: Washington State Energy Code, California Title 24, New York Energy Conservation Code, International Energy Conservation Code (IECC)





Summary

- Air sealing
- Continuous air barrier (including behind tubs, showers and kneewalls?)
- Window and door U-factors
- Recessed lights