

PRESCRIPTIVE WASHINGTON ENERGY COMPLIANCE FORM HAS BEEN ATTACHED. ENERGY COMPLIANCE CAN BE ACHIEVED BY USING THE INSULATION VALUES LISTED. IF THESE VALUES CAN NOT BE MET, A COMPONENT OR SYSTEMS ANALYSIS MUST BE SUBMITTED FOR REVIEW AND APPROVAL. PLEASE NOTE THE REQUIRED DETAILS FOR PARTITION JOISTS NECESSARY TO ACHIEVE REQUIRED R VALUES AND MAINTAIN THE MINIMUM INSULATION SPACE (WHERE REQUIRED).



San Juan County  
Community Development & Planning  
135 Rhode Street, P.O. Box 647, Friday Harbor, WA 98250  
Phone: (360) 979-2116 Fax: (360) 979-5282  
www.sanjuancounty.com

**2006 RESIDENTIAL ENERGY PRESCRIPTIVE COMPLIANCE FORM**

PRESCRIPTIVE REQUIREMENTS FOR GROUP R-3 OCCUPANCY  
CLIMATE ZONE 1

**RESIDENTIAL COMPLIANCE UNLIMITED GLAZING**

Option	Vertical Glazing		Horizontal Glazing		Roof Glazing	
	U-Value max	Shading Coeff min	U-Value max	Shading Coeff min	U-Value max	Shading Coeff min
IV	0.35	0.38	0.20	0.30	R-21	R-10

- Nominal P-values are for wood frame assemblies only or assemblies built in accordance with Section 601.1
- Requirement applies to all glazing assemblies other than glazing in a basement, crawlspace, or unheated porch, unless the glazing is specifically labeled as being for use in such areas.
- Glazing with a U-value greater than 0.35 and solar heat gain coefficient greater than 0.38 is prohibited.
- Glazing with a U-value greater than 0.35 and solar heat gain coefficient greater than 0.38 must comply with "Glazing" requirements.
- Glazing assemblies shall be manufactured or tested to meet the minimum U-value and SHGC requirements.
- Glazing assemblies shall be tested and labeled according to the manufacturer's requirements.
- Required glazing assemblies shall be a weather resistant material, manufactured for its intended use.
- Roofs shall be tested and labeled for their intended use.
- Doors, including all fire doors, shall be assigned default U-values from Table 6-10-C.
- Log and solid timber walls with a minimum average thickness of 5" are exempt from the insulation requirement.
- (SEE OTHER SIDE FOR SECTIONS WITH ASTERISKS " \* \* \* \* ")

**IF YOUR PROJECT IS IN COMPLIANCE WITH THE ABOVE TABLE:  
"RESIDENTIAL COMPLIANCE UNLIMITED GLAZING"  
THE PROJECT WILL MEET ALL OTHER PROVISIONS OF THE WSECC AND IACD CODES.**

( ) YES Signature (Owner/Agent) \_\_\_\_\_ Date \_\_\_\_\_  
\_\_\_\_\_  
OTHER OPTIONS: (A) ENERGY RATIO CALCULATION OR LESS  
(B) COMPONENT ENERGY FORM  
(C) COMMENTS MEMORANDUM

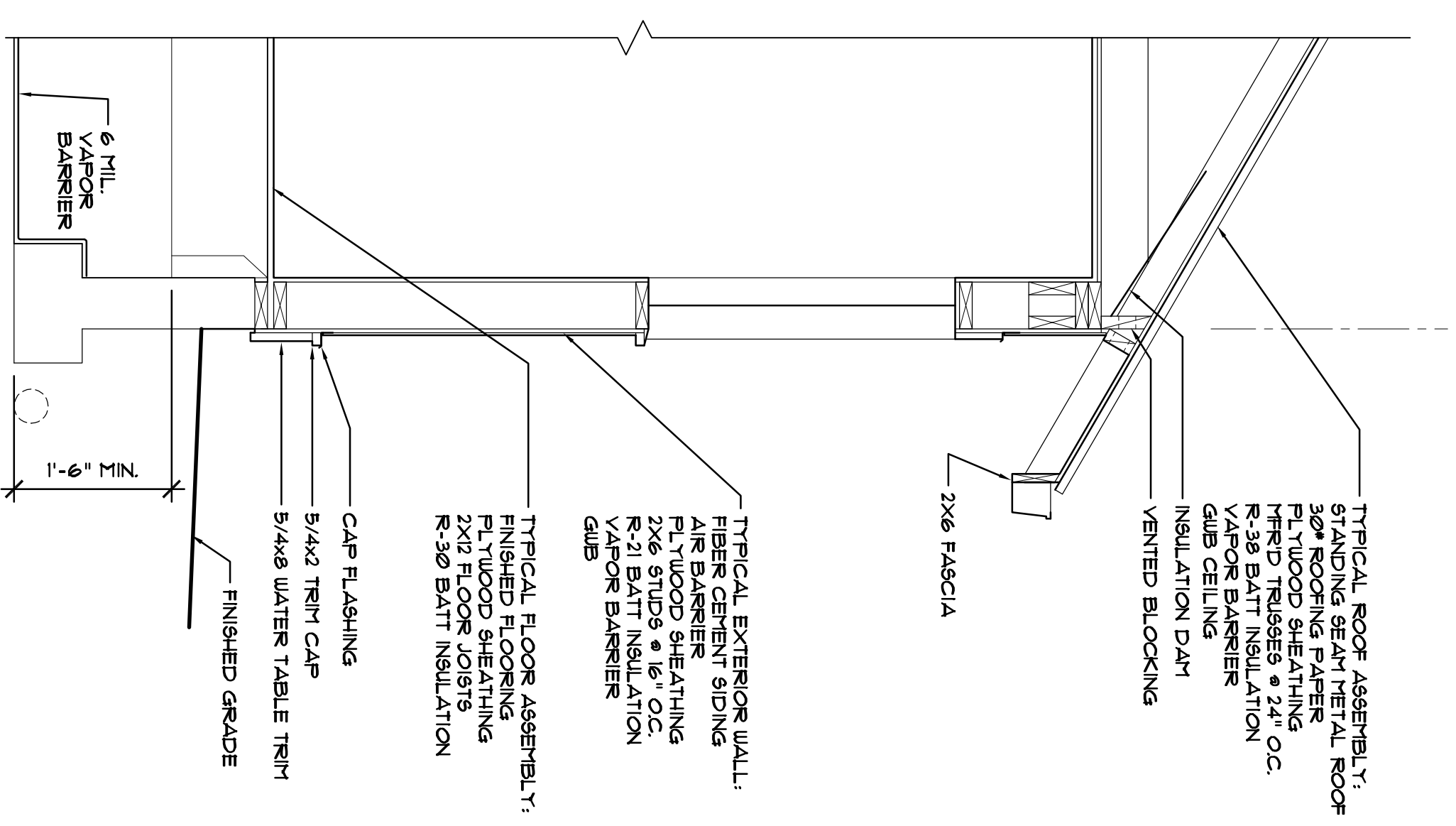
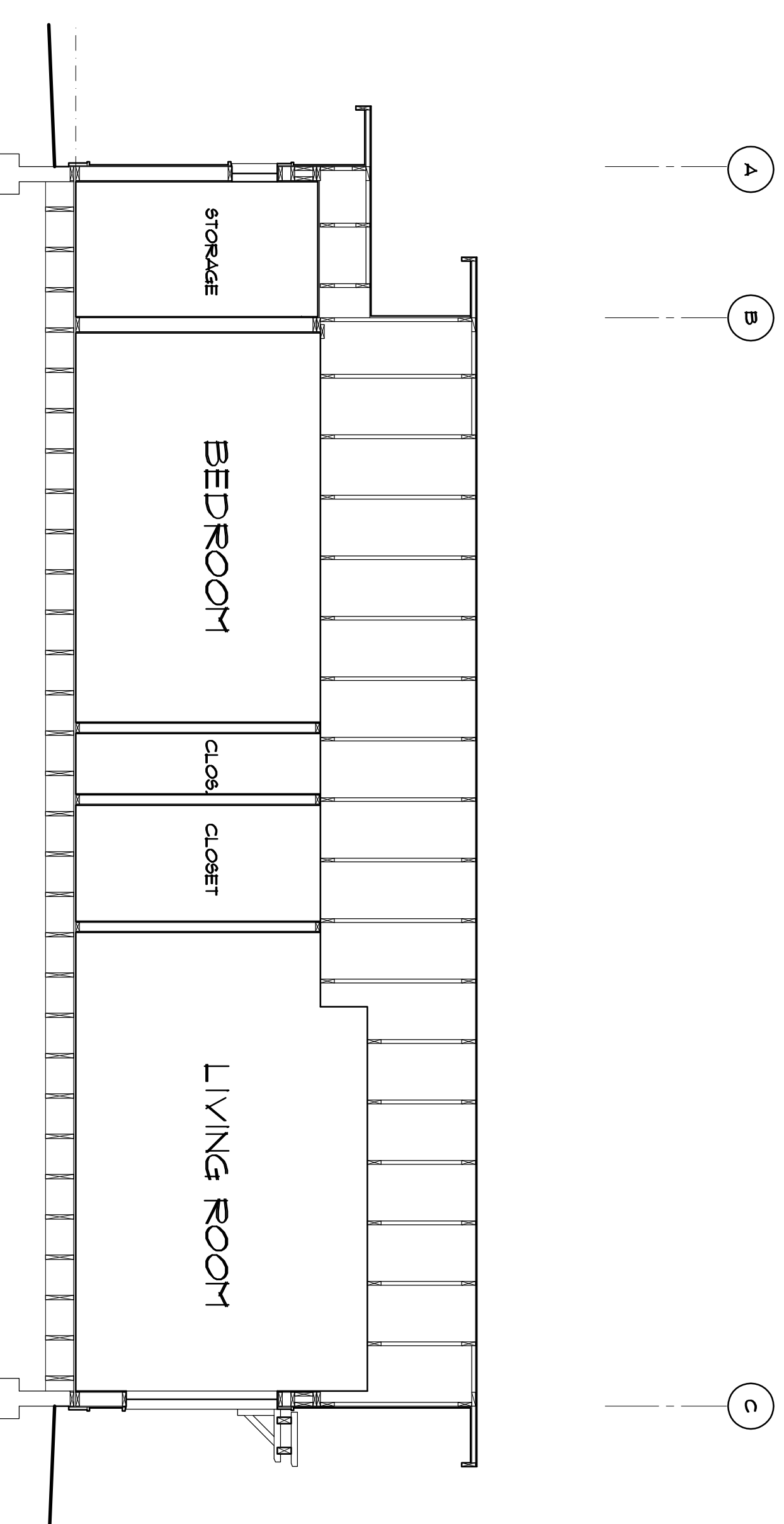
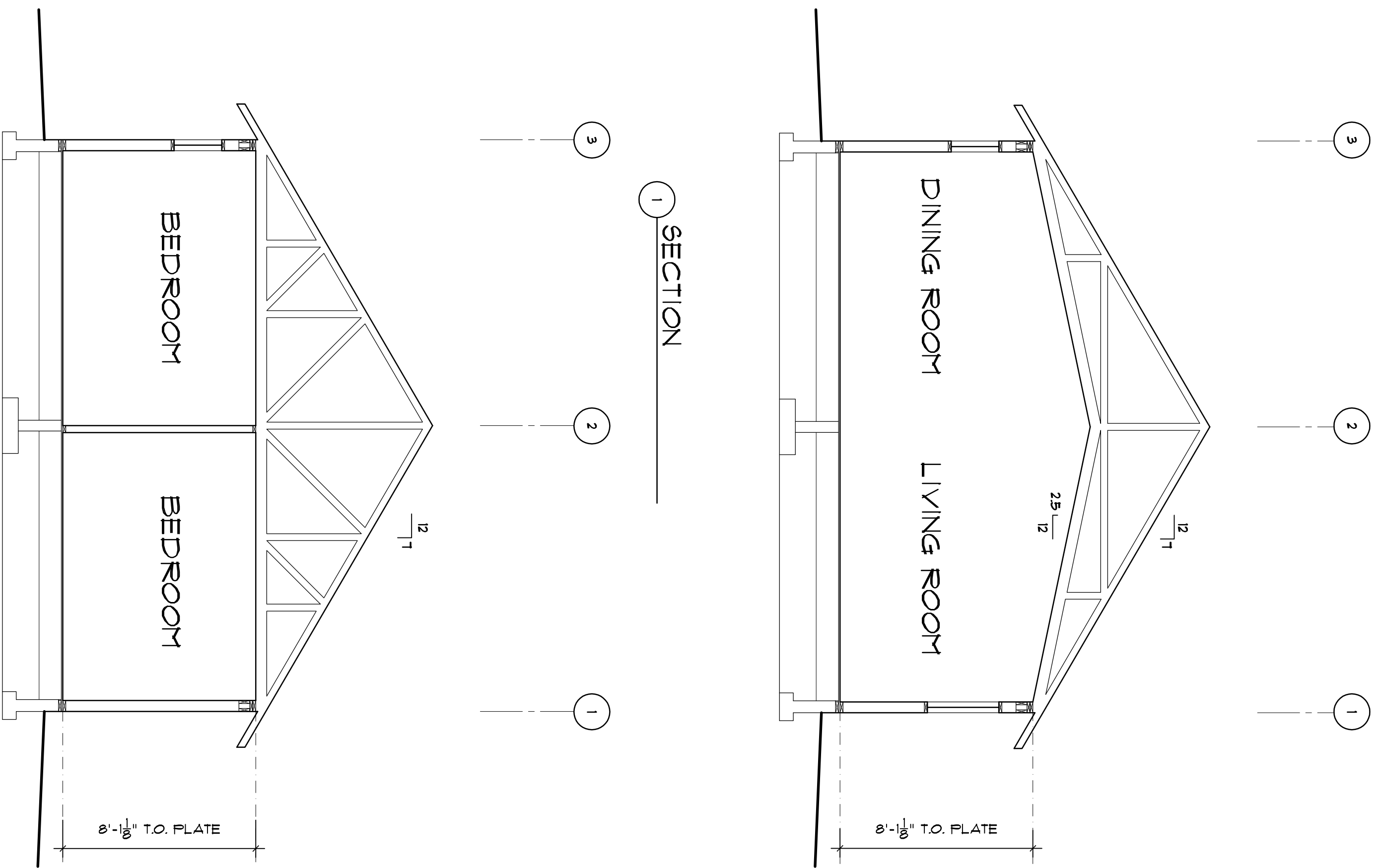
CALLS: 1 - 800-2 - FLOOD - FLOOD - SLOWLY / ACCEPTABLE SYSTEMS MAIL BOX SYSTEMS  
1 - 800-2 - FLOOD - FLOOD - SLOWLY / ACCEPTABLE SYSTEMS MAIL BOX SYSTEMS  
C:\Documents and Settings\jdc\Local Settings\Temporary Internet Files\OLG\3006.Pdf Compliance  
Unlimited Glazing.doc

\*SECTION 601.1 For wood frame assemblies, the building envelope requirements of this chapter may be met by installing one of the prescriptive packages in Table 6-1. Insulated components shall meet the requirements of Section 602. Compliance with nominal R-values shall be demonstrated for the thermal resistance of the added insulation in framing cavities and/or insulated sheathing only and shall not include the thermal transmittance of other building materials or air films, but shall permit interruption by occasional framing members. Other than wood frame assemblies with continuous insulation interrupted by framing members, framing members shall be installed and labeled in accordance with Section 602.1.4.9. The following table shows typical insulation requirements for a single rafter joist. (if the table notes R-38, then R-38 is required)

Prescriptive R-value	Insulation	Sheath	Exterior Finish	Edge	Other	Notes
Nominal	Actual	1" Ventilation	R-21	R-500 SF	R-38	None
2X10	9 1/4"	8 1/4"	R-30	HD <sup>2</sup>	R-38	Note 1
2X12	11 1/4"	10 1/4"	R-30	HD <sup>2</sup>	R-38	Note 1
2X14	13 1/4"	13 1/4"	R-38	HD <sup>2</sup>	R-38	Note 1
1-101st	9 1/2"	8 1/2"	R-30	HD <sup>2</sup>	R-38	Note 1
1-101st	11 7/8"	10 7/8"	R-30	HD <sup>2</sup>	R-38	Note 1
1-101st	14"	13"	R-38	HD <sup>2</sup>	R-38	Note 1
1-101st	16"	15"	R-38	HD <sup>2</sup>	R-38	Note 1

Note 1: Upsize joist or provide an alternative method meeting U-027  
HD<sup>2</sup>: Rafter high density fiberglass batt or equivalent.  
A value of rafter area will be required.

\*\*\*SECTION 602.2 Exterior Walls Both Above and Below Grade:  
Above grade exterior walls shall be insulated to not less than the nominal R-value specified in Table 6-1 as applicable. Framed exterior walls shall be insulated with R-21 without additional documentation:  
1. 2" x 4" framed and insulated with R-15 fiberglass batts plus R-4.0 foam sheathing.  
2. 2" x 4" framed and insulated with R-13 fiberglass batts plus R-5.0 foam sheathing.  
3. 2" x 4" framed and insulated with R-13 fiberglass batts plus R-5.0 foam sheathing.  
\*\*\*SECTION 602.4 Slab-on-Grade Floors: Slab-on-grade floors shall be insulated along their perimeter to not less than the nominal R-value specified for slab-on-grade floors in Table 6-1 as applicable. Slab insulation shall be installed on a minimum of 24 inches above the ground surface. Section 502.1.4.9. See Chapter 5, Section 502.1.4.9, for additional requirements for radiant slab heating.  
SECTION 502.1.4.8 Slab-On-Grade: Slab-on-grade insulation, installed inside the foundation wall, shall extend downward from the top of the slab for a minimum distance of 24 inches or downward and then horizontally beneath the slab for a minimum of 24 inches. Insulation installed outside the foundation wall shall extend downward to a minimum of 24 inches to the frost line. Above grade insulation shall be installed on the monolithic sides, the insulation shall extend downward from the top of the slab to the bottom of the footing.  
SECTION 502.1.4.9 Radiant Slabs: The entire area of a radiant slab shall be thermally isolated from the soil with a minimum of R-10 insulation. The insulation shall be an approved product for its intended use.



SECTION 2

SECTION 3

WALL SECTION

WILD ROSE MEADOW, 2BR NS (MIRRORED)  
OPAL COMMUNITY LAND TRUST

BUILDING SECTIONS WALL SECTIONS INTERIOR ELEVATIONS

6445 REGISTERED ARCHITECT  
SHARON C. ROBINSON STATE OF WASHINGTON

209 Prospect Street  
Friday Harbor, WA 98250  
E: 360/733.8598  
www.zervosgrp.com

Architectural Interior Design Framing

DWG NO. \_\_\_\_\_  
CHECKED \_\_\_\_\_  
REV. \_\_\_\_\_  
DATE 08/03/09

SCALE: 3/4"=1'-0"

A4.1

6/2007