PRELIMINARY
NOT FOR CONSTRUCTION

NOT APPROVED_____
APPROVED FOR CONCEPT_____
APPROVED FOR PRODUCTION_____
APPROVED WITH NOTED CHANGES PCW

The request for approval of these drawings has been noted above with all appropriate lines checked. I understand that this structure is to be assembled in accordance with the details provided in the R-Control Building System "Construction Manual".

Signature of Reviewer Paul C Wesnin

Date: 3-17-2011

ATKA BLDG. PAK

ATKA, AK

GENERAL NOTES:

- THIS PROPOSAL IS BASED ON THE INFORMATION FURNISHED TO BIG SKY INSULATIONS, INC. YOU MUST CHECK COMPLIANCE WITH YOUR LOCAL CODES AND CONDITIONS.
- BIG SKY INSULATIONS, INC'S SHOP DRAWINGS ARE FOR ILLUSTRATION PURPOSES AND PANEL ASSEMBLY. SUCH DRAWINGS ARE NOT TO BE CONSIDERED AS REPLACEMENT FOR THE EXPERTISE OF AN ARCHITECT OR ENGINEER, NOR THEIR DRAWINGS. THESE DRAWINGS EXCLUDE ANY DESIGN OF SITE, FOUNDATION, MECHANICAL, ELECTRICAL OR PLUMBING.
- BIG SKY INSULATIONS, INC MAKES EVERY EFFORT TO SUPPLY COMPLETE PANEL LAYOUT DRAWINGS FROM THE ORIGINAL ARCHITECTURAL AND / OR STRUCTURAL DRAWINGS PROVIDED TO US. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR OWNER TO CHECK AND VERIFY ALL DIMENSIONS, NOTES AND DETAILS ON THE PANEL DRAWINGS FOR COMPATIBILITY WITH THE ARCHITECTURALS AND OTHER CONSULTANTS' DRAWINGS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- SHOULD ANY DISCREPANCIES OR OMISSIONS BE FOUND, THE CONTRACTOR OR OWNER MUST NOTIFY A BIG SKY INSULATION, INC. REPRESENTATIVE (IN WRITING), AS SOON POSSIBLE SO THAT CORRECTIONS CAN BE MADE BEFORE PANELS BEGIN FABRICATION.
- THE CONTRACTOR OR OWNER SHALL NOTIFY BIG SKY INSULATIONS, INC. (IN WRITING) OF ANY CHANGES TO THE SITE AND FIELD CONDITION WHICH MAY AFFECT THE PANELS, PRIOR TO THE START OF PANEL FABRICATION.
- IT IS THE CONTRACTOR OR OWNER'S RESPONSIBILITY TO PROVIDE A LEVEL AND SQUARE FOUNDATION TO ENSURE A GOOD FIT OF THE R-CONTROL PANELS. BIG SKY INSULATION, INC. DOES NOT ASSUME RESPONSIBILITY FOR ANY VARIANCES FROM THE FINAL SIGNED PANEL DRAWING AND SPECIFICATIONS OR ADJUSTMENTS REQUIRED RESULTING FROM THE CONDITIONS ENCOUNTERED ON THE JOB SITE.
- THE DETAILS ON THE DRAWINGS MAY NOT BE ALL INCLUSIVE. PANELS MUST BE INSTALLED PER AFM R-CONTROL CONSTRUCTION MANUAL. PLEASE REFER TO THE MANUAL DURING INSTALLATION.
- NOTE: ALL DIMENSIONAL LUMBER & HEADERS TO BE SUPPLIED BY OTHERS (UNLESS NOTED OTHERWISE ON PLAN). REQUIRED SUPPORT BEAMS, COLUMNS, DIMENSIONAL LUMBER AND HEADERS NOTED MUST BE DESIGNED AND SUPPLIED BY OTHERS.
- ALL FIELD CUTS, INCLUDING ELECTRICAL AND PLUMBING CHASES, MUST BE IN ACCORDANCE WITH THE R CONTROL CONSTRUCTION MANUAL, OR PRE APPROVED BY BIG SKY INSULATIONS, INC.
- THE OWNER / BUILDER MUST VERIFY PANEL LAYOUT AND PANEL SIZES. ANY CHANGES MUST BE IN WRITING, AND SUBJECT TO BIG SKY INSULATIONS, INC. APPROVAL.
- BIG SKY INSULATIONS, INC. ACCEPTS NO RESPONSIBILITY FOR CONSTRUCTION, ARCHITECTURE, OR ENGINEERING.
- ALL ELEVATIONS DRAWN ARE VIEWED FROM THE EXTERIOR UNLESS OTHERWISE NOTED.
- BY USE OF THESE DOCUMENTS, THE OWNER AND THE CONTRACTOR ACKNOWLEDGE THEY HAVE REVIEWED THEM AND ARE IN AGREEMENT WITH THEIR CONTENT.

DRAWING SHEET INDEX

SHEET-1 TITLE
SHEET-2 FLOOR PLAN
SHEET-2 WALL ELEVATIONS
SHEET-3 ROOF PLAN
SHEET-3 ROOF ELEVATIONS
SHEET-4 DETAILS

DESIGN VALUES

ELEVATION	-	FT
ROOF LIVE LOAD	30	PSF
ROOF DEAD LOAD	15	PSF
WIND LOAD	150	MPH
EXPOSURE	D	
FLOOR LIVE LOAD	-	PSF
SEISMIC CLASS	E	

DRAWING SYMBOL INDEX

⌂ — ROOF PLANE — WALL NUMBER

WALL LOCATION — PANEL NUMBER
W01–04 — PANEL IDENTIFICATION

PITCH ?? & x 12 ROOF PITCH

PANEL THICKNESS INDEX

	PANEL THICKNESS	EPS CORE WIDTH	OSB WIDTH
WALLS			
HOUSE	8 3/8"	7 1/4"	7/16"
GARAGE	N/A	N/A	N/A
ROOF			
HOUSE	10 3/8"	9 1/4"	7/16"
GARAGE	N/A	N/A	N/A

BSI HEADER DEPTH

HEADER: 11 1/4"

REVISION POLICY

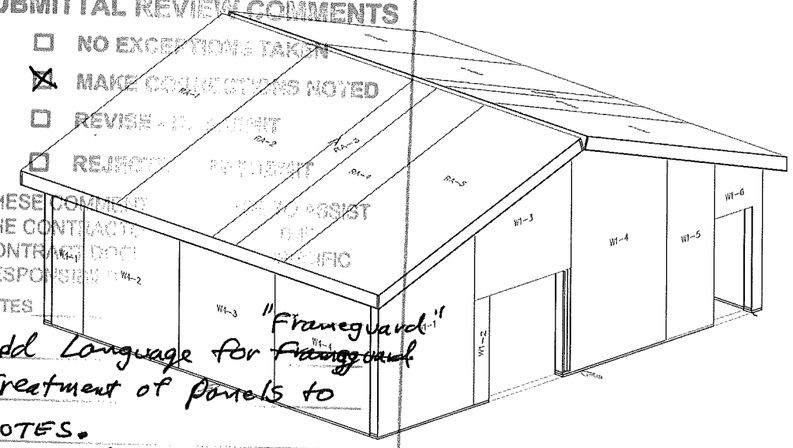
BIG SKY INSULATION, INC. UNDERSTANDS THAT SOME PROJECTS MAY REQUIRE ALTERATIONS. WE WILL DO OUR BEST TO ACCOMMODATE YOUR CHANGES AND / OR ADJUSTMENTS. EACH CUSTOMER INITIATED CHANGE TO SHOP DRAWINGS MAY RESULT IN A PRODUCT COST REVIEW AND ADDITIONAL CHARGES MAY BE APPLIED. CHANGES MAY AFFECT THE DELIVERY DATE.

CE2 ENGINEERS, INC.

SUBMITTAL REVIEW COMMENTS

- ☐ NO EXCEPTIONS TAKEN
- ☒ MAKE CORRECTIONS NOTED
- ☐ REVISE & RESUBMIT
- ☐ REJECTED

THESE COMMENTS ONLY ASSIST THE CONTRACTOR IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR SPECIFIC NOTES



"Frameguard"
Add Language for Frameguard Treatment of panels to NOTES.

Reviewed by Paul C Wesnin Date 3-17-2011

PO BOX 232946 ANCHORAGE, AK 99523 PH: 907-349-1019 FAX: 907-349-1916

PANEL NOTES:

- ALL INSULATED HEADERS WILL NEED TO BE FIELD CUT TO APPROPRIATE LENGTHS.
- WHEN PANEL JOINTS ARE INDICATED ON THE ELEVATIONS, PLEASE REFER TO THEIR DETAILS FOR APPLICATION.
- ALL HEADERS ARE SET AT 6'-10 5/8" FROM THE BOTTOM OF PANEL UNLESS NOTED OTHERWISE.
- HORIZONTAL WALL ELECTRICAL CHASES ARE LOCATED 14" AND 42".
- ROOF ELECTRICAL CHASES ARE TYP. 2' FROM EDGE OF PANEL.
- ELECTRICAL CHASES ARE MARKED WITH A BLUE LINE APPROXIMATELY 2" LONG ON THE INSIDE EDGE OF PANELS

CUSTOMER CHECK LIST

THIS CHECKLIST IS BEING PROVIDED FOR THE EXPRESS PURPOSE OF ASSISTING OUR CUSTOMERS IN THE REVIEW OF THESE SHOP DRAWINGS AGAINST THE PLAN SET CURRENTLY ON FILE AND FOR ACCURACY AND COMPLETENESS. THIS HELPS ENSURE THE QUALITY OF THE PRODUCT AND EASE OF CONSTRUCTION IN THE FIELD. PLEASE FEEL FREE TO CONTACT YOUR PROJECT MANAGER AT BIG SKY R-CONTROL AT 406-388-4146 OR 800-766-3626 WITH ANY QUESTIONS OR CONCERNS THAT MAY ARISE DURING THE REVIEW PROCESS.

INITIAL	
PCW	CONFIRM WINDOW ROUGH OPENING LOCATIONS & DIMENSIONS
PCW	CONFIRM DOOR ROUGH OPENING LOCATIONS & DIMENSIONS
PCW	CONFIRM WALL PLATE HEIGHT DIMENSIONS
PCW	CONFIRM ROOF PITCHES
PCW	CONFIRM BEAM SIZES AND LOCATIONS
PCW	CONFIRM DESIGN VALUE CRITERIA (TITLE PAGE)
PCW	CONFIRM OVERALL WALL DIMENSIONS (INCLUDING STEP FOUNDATION CONDITIONS IF ANY)
PCW	CONFIRM FLOOR THICKNESS AND DIMENSIONS [N/A]
PCW	DENOTE ANY CUSTOM ELECTRICAL CHASE LOCATIONS (WITH DIMENSIONS) [N/A]
PCW	CHECK OFF AND SIGN THE APPROPRIATE SIGN-OFF APPROVAL (LOCATED IN TOP LEFT CORNER)

BIG SKY INSULATIONS, INC.
15 Arden Drive P.O. Box 838
Belgrade, Montana 59714
(800) 766-3626
Denver, Colorado Grand Jct., Colorado Puyallup, Washington
(303) 282-6665 (970) 241-3929 (866) 839-1321

R-CONTROL

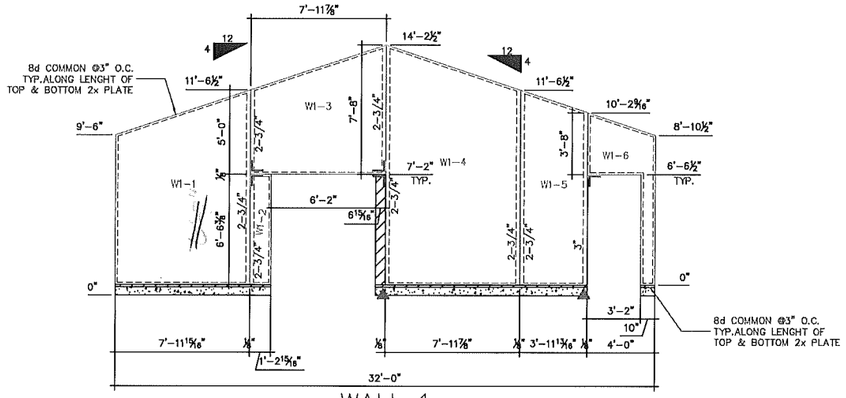
DRAWN BY: Kevin
DRAWING PLOT DATE: 3/2/11
REVISED:
3/16/11

ATKA BLDG. PAK
ATKA, AK

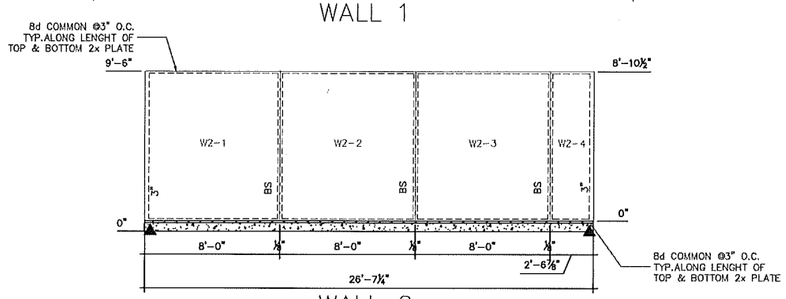
BSI PROJECT NO: 314173

1/4

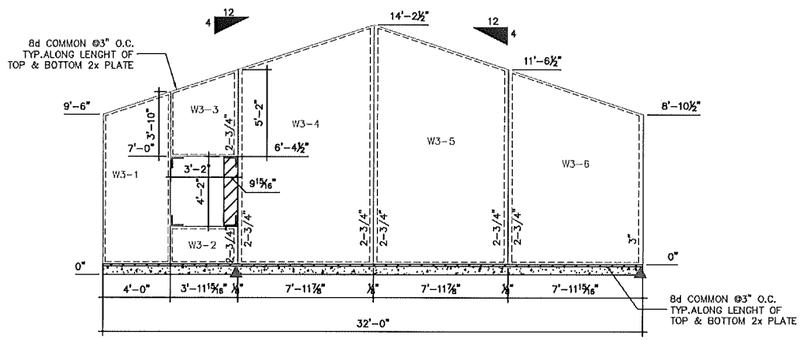
BUILD 2.0



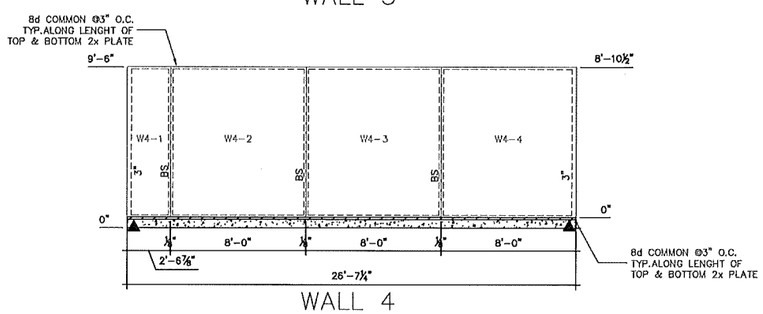
WALL 1



WALL 2



WALL 3



WALL 4

PAGE NOTES: WALL PANELS

- ALL VIEWS ARE SET AT 1/4"=1'-0" UNLESS OTHERWISE NOTED
- ALL VIEWS ARE SET TO BE PERPENDICULAR TO WALL PANELS
- ALL PERIMETER LUMBER IS TO BE RECESSED 1-9/16" FOR A SINGLE 2X UNLESS OTHERWISE NOTED
- TS= TOP SKIN DIMENSION
- BS= BOTTOM SKIN DIMENSION
- HBO= HEADER NOT SUPPLIED BY BSI DUE TO SIZE OR LOADING CONDITIONS
- ▨ = STICK FRAME BY OTHERS

PANEL COMPONENT LEGEND, SUPPLIED BY BSI

CODE	DESCRIPTION	DETAIL REF.	COMMENTS
BS	BLOCK SPLINE (8' LENGTHS)	SIP-102G	
DS	DOUBLE SPLINE (8' LENGTHS)	SIP-102	
SS	SINGLE SPLINE (8' LENGTHS)	SIP-102E	
IB	SINGLE I-BEAM	SIP-102B	
IIB	INSULATED I-BEAM	SIP-102C	
FIB	FACTORY INSTALLED I-BEAM	BSI-502B	
HDR-E	INSULATED DOUBLE MICRO-LAM HEADER	BSI-515	
HDR-F	INSULATED SINGLE MICRO-LAM HEADER	BSI-516	
PNL-HDR	PANEL HEADER (IDENTIFIED BY P#)	BSI-513	

PANEL RECESS LEGEND, LUMBER SUPPLIED BY OTHERS.

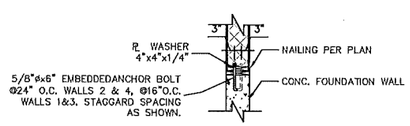
CODE	DESCRIPTION	DETAIL REF.	COMMENTS
1 1/4"	RECESS DEPTH	SIP-102D (SIM)	RIM BOARD
1 1/2"	RECESS DEPTH	SIP-102D	
2 1/4"	RECESS DEPTH	BSI-502G	
3"	RECESS DEPTH	BSI-502H	
1 3/4"	RECESS DEPTH	SIP-102D (SIM)	LVL
2 3/4"	RECESS DEPTH	BSI-502J	
3 5/8"	RECESS DEPTH	BSI-502J (SIM)	

NOTE: PANELS ARE RECESSED ACCORDING TO LUMBER SIZES CALLED OUT BY ENGINEER OF RECORD UNLESS SUPPLIED BY BSI.

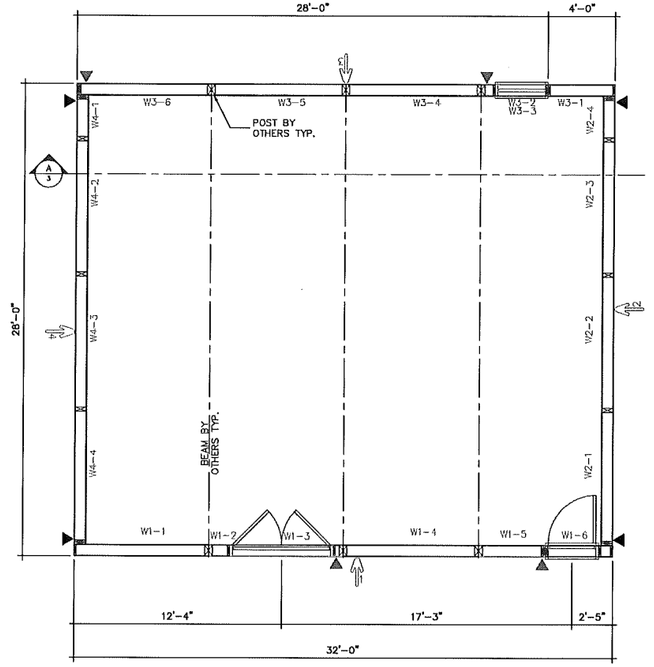
HOLDOWN SCHEDULE

SIZE	POST/CHORD	NAILING	EMBEDMENT
LSDTHD8	(2) 2x8 MIN.	16-16d SINKERS	8"
STHD14	(2) 2x8 MIN.	24-16d SINKERS	14"

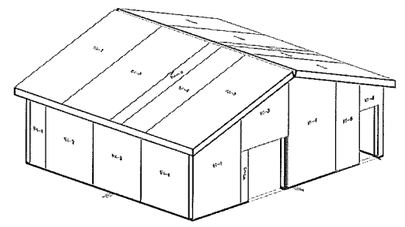
▲=SIMPSON STHD14
▲=SIMPSON LSDTHD8
⌐=SIMPSON A35 CLIP



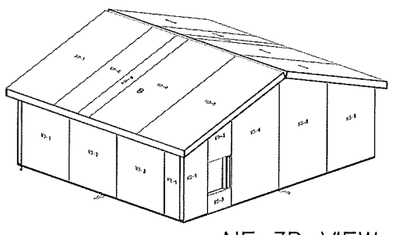
SIP TO FDN. CONN.
1/2" = 1' - 0"



FIRST FLOOR PLAN
1/4" = 1' - 0"



SW 3D VIEW
1/8" = 1' - 0"



NE 3D VIEW
1/8" = 1' - 0"

BIG SKY INSULATIONS, INC.
15 Arden Drive P.O. Box 838
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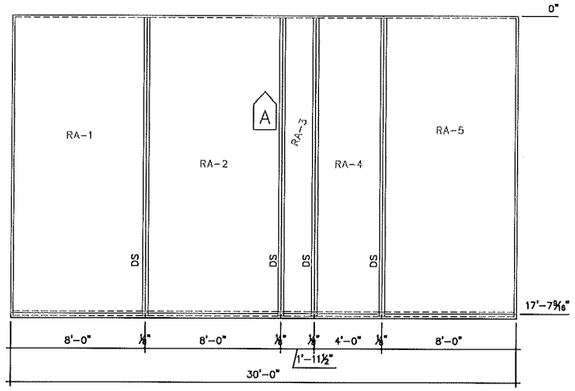
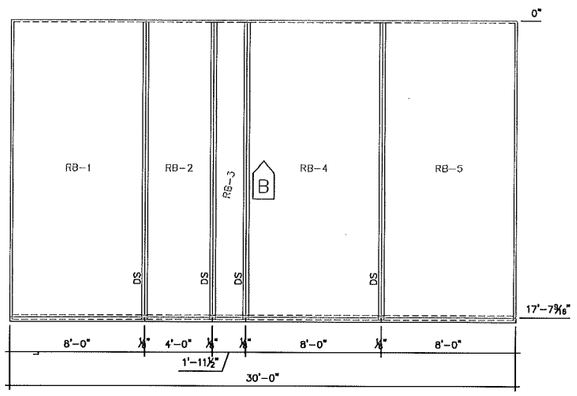
DRAWN BY: Kevin
DRAWING PLOT DATE: 3/2/11
REVISED:

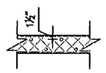
ATKA BLDG. PAK
ATKA, AK

BSI PROJECT NO: 314173

2/4

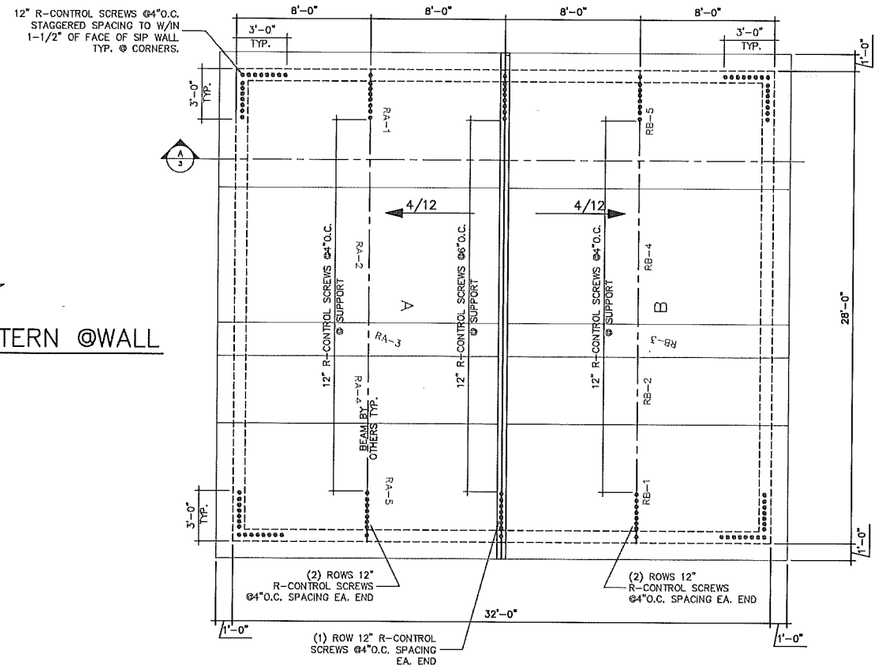






STAGGERED PATTERN @WALL
NTS

TYP. CONNECTION @ WALL U.N.O. 12"
R-CONTROL SCREW @6"O.C. STAGGER SPACING
TO W/IN 1-1/2" OF FACE OF SIP WALL.



ROOF PLAN
1/4" = 1'-0"

PANEL COMPONENT LEGEND, SUPPLIED BY BSI

CODE	DESCRIPTION	DETAIL REF.	COMMENTS
BS	BLOCK SPLINE (8' LENGTHS)	SIP-102G	
DS	DOUBLE SPLINE (8' LENGTHS)	SIP-102	
SS	SINGLE SPLINE (8' LENGTHS)	SIP-102E	
IB	SINGLE I-BEAM	SIP-102B	
IIB	INSULATED I-BEAM	SIP-102C	
FIB	FACTORY INSTALLED I-BEAM	BSI-502B	
HDR-E	INSULATED DOUBLE MICRO-LAM HEADER	BSI-515	
HDR-F	INSULATED SINGLE MICRO-LAM HEADER	BSI-516	
PNL-HDR	PANEL HEADER (IDENTIFIED BY P#)	BSI-513	

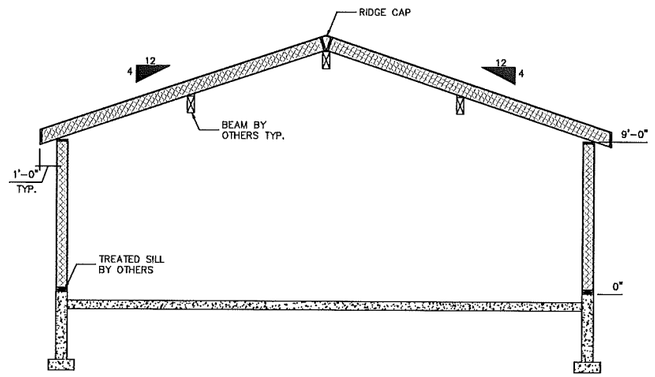
PANEL RECESS LEGEND, LUMBER SUPPLIED BY OTHERS.

CODE	DESCRIPTION	DETAIL REF.	COMMENTS
1 1/4"	RECESS DEPTH	SIP-102D (SIM)	RIM BOARD
1 1/2"	RECESS DEPTH	SIP-102D	
2 1/4"	RECESS DEPTH	BSI-502G	
3"	RECESS DEPTH	BSI-502H	
1 3/4"	RECESS DEPTH	SIP-102D (SIM)	LVL
2 3/4"	RECESS DEPTH	BSI-502J	
3 5/8"	RECESS DEPTH	BSI-502J (SIM)	

NOTE: PANELS ARE RECESSED ACCORDING TO LUMBER SIZES CALLED OUT BY ENGINEER OF RECORD UNLESS SUPPLIED BY BSI.

PAGE NOTES: ROOF PANELS

- ALL VIEWS ARE SET AT 1/4"=1'-0" UNLESS OTHERWISE NOTED
- ALL VIEWS ARE SET TO BE PERPENDICULAR TO ROOF PLANES
- ALL PERIMETER LUMBER IS TO BE RECESSED 1-9/16" FOR A SINGLE 2X UNLESS OTHERWISE NOTED
- ALL DIMENSIONS ARE TO TOP SKIN UNLESS NOTED OTHERWISE
- TS= TOP SKIN DIMENSION
- BS= BOTTOM SKIN DIMENSION



A BUILDING SECTION
1/4" = 1'-0"

PRELIMINARY NOT FOR CONSTRUCTION

BIG SKY INSULATIONS, INC.
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Belgrade, Montana 59714
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(303) 282-6665 (970) 241-3929 (866) 839-1321

DRAWN BY: Kevin
DRAWING PLOT DATE: 3/2/11
REVISED:

ATKA BLDG. PAK
ATKA, AK

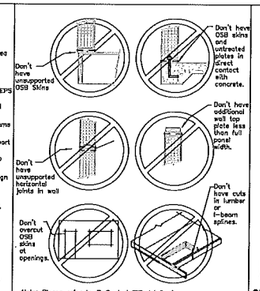
BSI PROJECT NO: 344173

R-Control SIPs Do's and Don'ts

1.) Do handle SIPs with care.
2.) Do provide adequate support for SIPs when storing them. Store SIPs laying flat and covered.
3.) Do store R-Control Do-All-Ply® and SIP Tape in a warm area for best application results in cold weather.
4.) Do place R-Control Do-All-Ply along the leading edge of wood being fixed into panel.
5.) Do use R-Control Do-All-Ply on wood-to-wood, wood-to-EPS and EPS-to-EPS connections.
6.) Do use SIP Tape or equivalent vapor retarder on roof panel joints.
7.) Do use only continuous 2X's, I-Beams, and Insulated I-Beams for spline connections.
8.) Do provide level and square foundations or floors that support SIP walls.
9.) Do hold sill plate back from edge of floor system 7/16" to allow full bearing of SIP OSB facings.
10.) Do provide 1-1/2" diameter access holes in plating to align with electrical wire chases in SIPs.
11.) Do provide adequate bracing of panels during erection.
12.) Do remove debris from plate area prior to panel placement.
13.) Don't install SIPs directly on concrete.
14.) Don't drop SIPs on corners.
15.) Don't lift SIPs by top OSB facing.
16.) Don't put plumbing in R-Control SIPs.
17.) Don't overcut the OSB facings for field-cut openings.
18.) Don't cut the OSB facings for electrical chases, use factory provided chases in SIP core.

Updated 11-1-07

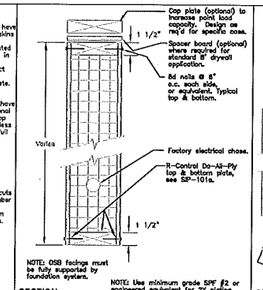
R-Control® SIP — TITLE: Panel Precautions — NO. SIP-100



Note: Please refer to R-Control SIP details for proper installation techniques.

Updated 9-3-03

R-Control® SIP — TITLE: Panel DON'Ts — NO. SIP-100a



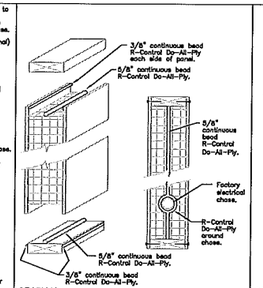
NOTE: OSB facings must be fully supported by foundation system.

NOTE: Use minimum grade SPF #2 or engineered equivalent for 2X plating.

SECTION
Scale: NTS

Updated 1-14-11

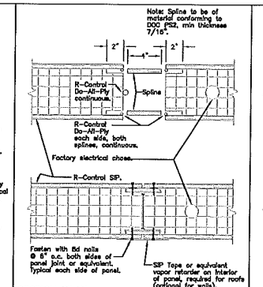
R-Control® SIP — TITLE: Plate Connections — NO. SIP-101



SECTION
Scale: NTS

Updated 3-2-08

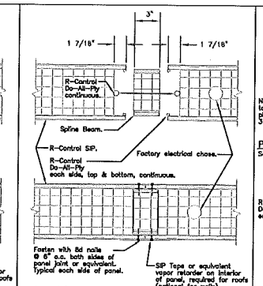
R-Control® SIP — TITLE: Do-All-Ply® Application — NO. SIP-101c



SECTION/PLAN
Scale: NTS

Updated 1-14-11

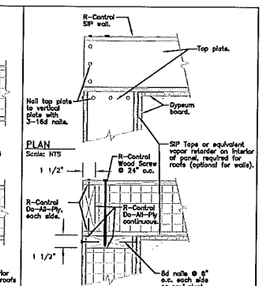
R-Control® SIP — TITLE: Spline Connection Surface Spline — NO. SIP-102



SECTION/PLAN
Scale: NTS

Updated 1-14-11

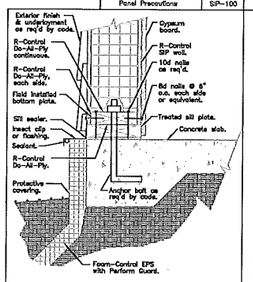
R-Control® Panel — TITLE: Block Spline Connection — NO. SIP-102g



SECTION
Scale: NTS

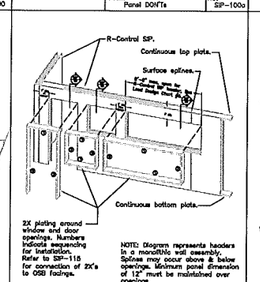
Updated 1-14-11

R-Control® SIP — TITLE: Corner Connection — NO. SIP-103



SECTION
Scale: NTS

Updated 1-14-11

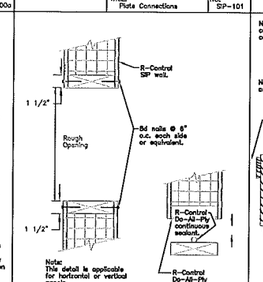


NOTE: Diagram represents headers in a monolithic wall assembly. Splines may occur above & below openings. Minimum panel dimension of 12" must be maintained over openings.

ISOMETRIC
Scale: NTS

Updated 11-1-07

R-Control® SIP — TITLE: Slab Foundation Framing — NO. SIP-104

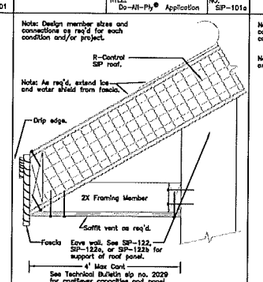


Note: Thin detail is applicable for horizontal or vertical panels.

SECTION
Scale: NTS

Updated 1-14-11

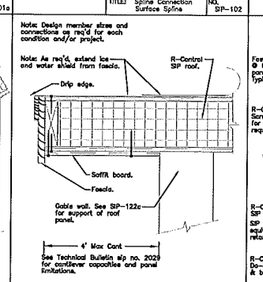
R-Control® SIP — TITLE: Openings in Panels — NO. SIP-115



SECTION
Scale: NTS

Updated 11-1-07

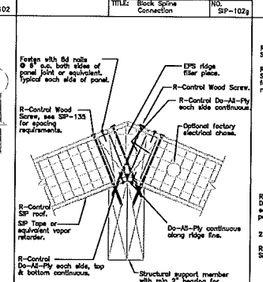
R-Control® SIP — TITLE: Roof Eave Plumb Cut – Cant Panel — NO. SIP-118a



SECTION
Scale: NTS

Updated 11-1-07

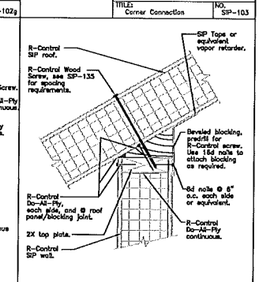
R-Control® SIP — TITLE: Roof Gable Square Cut – Cant Panel — NO. SIP-118d



SECTION
Scale: NTS

Updated 1-14-11

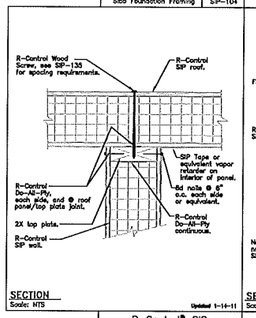
R-Control® SIP — TITLE: Roof Ridge – Square Cut — NO. SIP-121a



SECTION
Scale: NTS

Updated 1-14-11

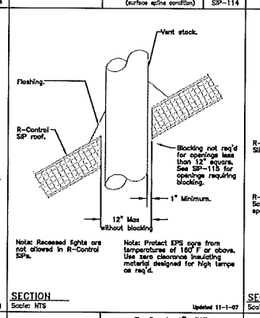
R-Control® SIP — TITLE: Beveled Wedge Blocking — NO. SIP-122b



SECTION
Scale: NTS

Updated 1-14-11

R-Control® SIP — TITLE: Gable End — NO. SIP-122c



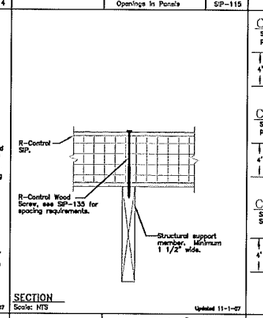
Note: Recessed fights are not allowed in R-Control SIPs.

Note: Protect EPS core from temperatures of 160° F or above. Use zero clearance insulating material designed for high temps as req'd.

SECTION
Scale: NTS

Updated 11-1-07

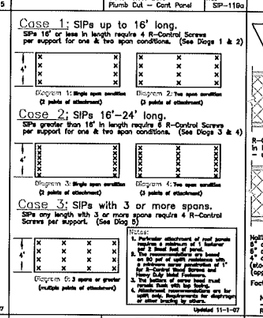
R-Control® SIP — TITLE: Roof Penetrations — NO. SIP-126a



SECTION
Scale: NTS

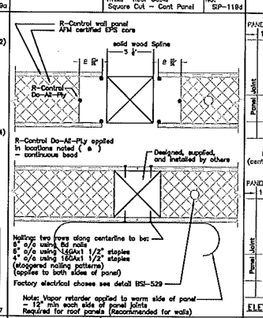
Updated 11-1-07

R-Control® SIP — TITLE: Continuous Panel At Dimensional Lumber — NO. SIP-134a



Updated 11-1-07

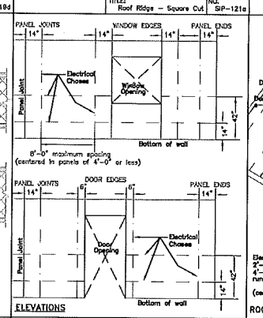
R-Control® SIP — TITLE: Panel Fastening Patterns — NO. SIP-130



SECTION / PLAN
Scale: NTS

Updated 01-22-08 (MA)

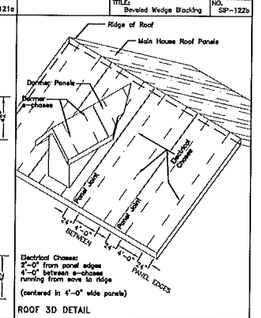
AFM R-Control® Panel — TITLE: Spline Connection Solid Wood Spline — NO. ESI-503J



ELEVATIONS

WALL E-CHASES
Updated 01-18-08 (MA)

AFM R-Control® Panel — TITLE: Electrical chase Wall Panels — NO. ESI-529



Electrical Chases: 2'-0" from panel edges 4'-0" between e-chases running from eave to ridge (centered in 4'-0" wide panels)

ROOF 3D DETAIL

ROOF E-CHASES
Updated 02-08-08 (MA)

AFM R-Control® Panel — TITLE: Electrical chase Roof Panels — NO. ESI-529A

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DRAWN BY: Kevin
DRAWING PLOT DATE: 3/2/11
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BSI PROJECT NO: 314173

4/4