DATE 02/09/2010

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000028359

APPLICANT MERILYN BYRD PHONE 454-5309

ADDRESS 338 SW BONIFAY GLEN FT.WHITE FL 3038

OWNER MERILYN BYRD PHONE 454-5309

ADDRESS 338 SW BONIFAY GLEN FT.WHITE FL 3038

CONTRACTOR SAME AS APPLICANT PHONE

LOCATION OF PROPERTY 47S, TL ON 27, TL BONIFAY GLEN, 2ND DRIVE ON RIGHT

TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 56500.00

HEATED FLOOR AREA TOTAL AREA 1130.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 4/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 17

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 1 FLOOD ZONE N/A DEVELOPMENT PERMIT NO.

PARCEL ID 19-7S-17-10026-012 SUBDIVISION COX'S

LOT 12 BLOCK PHASE UNIT 0 TOTAL ACRES 13.50

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	10-0032	BK	WR	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS:

Check # or Cash 609

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by

Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by

Framing date/app. by Insulation date/app. by

Rough-in plumbing above slab and below wood floor date/app. by Electrical rough-in date/app. by

Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by Pool date/app. by

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

Pump pole date/app. by Utility Pole date/app. by M/H tie downs, blocking, electricity and plumbing date/app. by

Reconnection date/app. by RV date/app. by Re-roof date/app. by

BUILDING PERMIT FEE $ 285.00 CERTIFICATION FEE $ 5.65 SURCHARGE FEE $ 5.65

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ CULVERT FEE $ **TOTAL FEE** 346.30

INSPECTORS OFFICE CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

ADD to 9438

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536se BAYA Ave
City Lake City Phone 752 1703

Site Location: Subdivision
Lot # 12 Block# Permit # 28359
Address 338 sw Bonifay Glen

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☑ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☑ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
NEW Additions	2599	157	115

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

3/8/10 Date

1030 Time

James Parker Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

Columbia County Building Permit Application

For Office Use Only Application # 1002-01 Date Received 2/1/10 By LT Permit # 28359

Zoning Official B2K Date 09.02.10 Flood Zone X Land Use A-3 Zoning A-3

FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner ~~[illegible]~~ Date 2-8-10

Comments

□ NOC ☑ EH ☑ Deed or PA ☑ Site Plan □ State Road Info □ Parent Parcel #

□ Dev Permit # □ In Floodway □ Letter of Auth. from Contractor □ F W Comp. letter

IMPACT FEES: EMS Fire Corr Road/Code

School = TOTAL N/A addition to existing Dwelling

Septic Permit No. 10-0032 Fax

Name Authorized Person Signing Permit Merilyn Sue Byrd Phone 386-454-5309

Address 338 SW Bonifay Glen Ft. White, FL 32038

Owners Name Thomas M Byrd and Merilyn Sue Byrd Phone 386-454-5309

911 Address 338 SW Bonifay Glen Ft. White, FL 32038

Contractors Name owner Phone 386-454-5309

Address 338 SW Bonifay Glen, Ft. White, FL 32038

Fee Simple Owner Name & Address n/a

Bonding Co. Name & Address n/a

Architect/Engineer Name & Address Mark Disosway P.O. Box 868 Lake City, FL 32056

Mortgage Lenders Name & Address

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progress Energy

Property ID Number 19-7S-17 R10026-012 Estimated Cost of Construction 50,000.-

Subdivision Name Lot Block Unit Phase

Driving Directions 47 S to 27: Turn left. Go app. 5 miles to SW Bonifay Glen. Turn left onto Bonifay Glen. 2nd driveway on R. Follow to the end of the driveway. Number of Existing Dwellings on Property 1

Construction of addition to SFD Total Acreage 13.5 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 17'9"

Actual Distance of Structure from Property Lines - Front 225 Side 120 Side 500 Rear 45

Number of Stories 1 Heated Floor Area 1130 Total Floor Area 1130 Roof Pitch 4/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction. **CODE:** Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.

left message 2/9/10

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full.
This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: ***YOU ARE HEREBY NOTIFIED*** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.)

Marilyn Sue Byrd
_____
Owners Signature ****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

_____ **Contractor's License Number**_____
Contractor's Signature (Permitee) **Columbia County**
Competency Card Number_____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ day of _____ 20___.

Personally known_____ or Produced Identification_____

_____ **SEAL:**

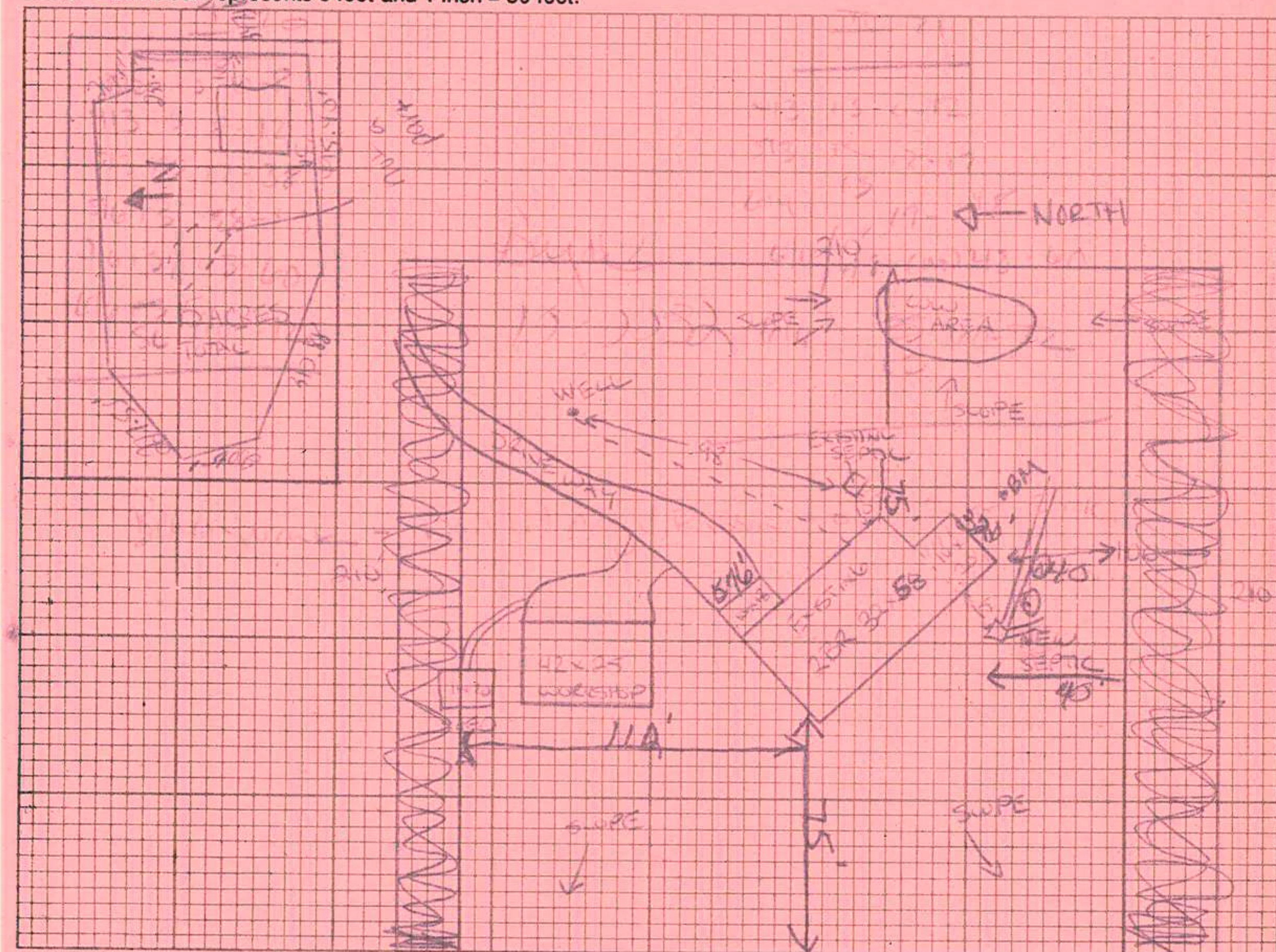
State of Florida Notary Signature (For the Contractor)

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 10-0032

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: EXISTING 2 BEDROOM, 1 BATH HOUSE W/ EXISTING 900GAL SEPTIC TANK. ADDING 1 BEDROOM AND BATH W/NEW PLAN. NEW TANK WILL ACCOMMODATE THE NEW BEDROOM AND BATH MAKING IT A 3BR AND 2BA HOME WITH 2 SEPTIC TANKS. NEW TANK WILL BE 1050 GAL TANK.

Site Plan submitted by: [signature] Owner
Signature Title

Plan Approved x Not Approved ______ Date 2/1/10

By [signature] County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

S/B/C 1/27

1002-01

PERMIT NO. 949254E
DATE PAID: 1/22/10
FEE PAID: 425.00
RECEIPT #: 1231974

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] ______

APPLICANT: Thomas M. Byrd or/and Merilyn Sue Byrd

AGENT: ______ TELEPHONE: 386-454-5309

MAILING ADDRESS: 338 SW Bonifay Glen
Ft. White, FL 32038

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES.

PROPERTY INFORMATION

LOT: ______ BLOCK: ______ SUBDIVISION: ______ PLATTED: ______

PROPERTY ID #: 19-7S-17 R10026-012 ZONING: Ag. I/M OR EQUIVALENT: [Y / (N)]

PROPERY SIZE: 13.5 ACRES WATER SUPPLY: [✓] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: ______ FT

PROPERTY ADDRESS: 338 SW Bonifay Glen Ft White, FL 32038

DIRECTIONS TO PROPERTY: S on 47 to 27 in Ft White. Turn L onto 27. Drive about 5 miles to Bonifay Glen. Turn L. Go to second driveway on the right (paved drive). Go to end of driveway.

BUILDING INFORMATION [✓] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	house	2	1200	EXISTING HOME
2	Addition	1	320	NEW MASTER BATH / LAUNDRY
3	Addition	0	576	LIVING ROOM, DINING ROOM
4	total	3	2096	Heat/cooled

[ ] Floor/Equipment Drains [ ] Other (Specify) ______

SIGNATURE: Merilyn Sue Byrd Thomas M. Byrd DATE: 1/22/10

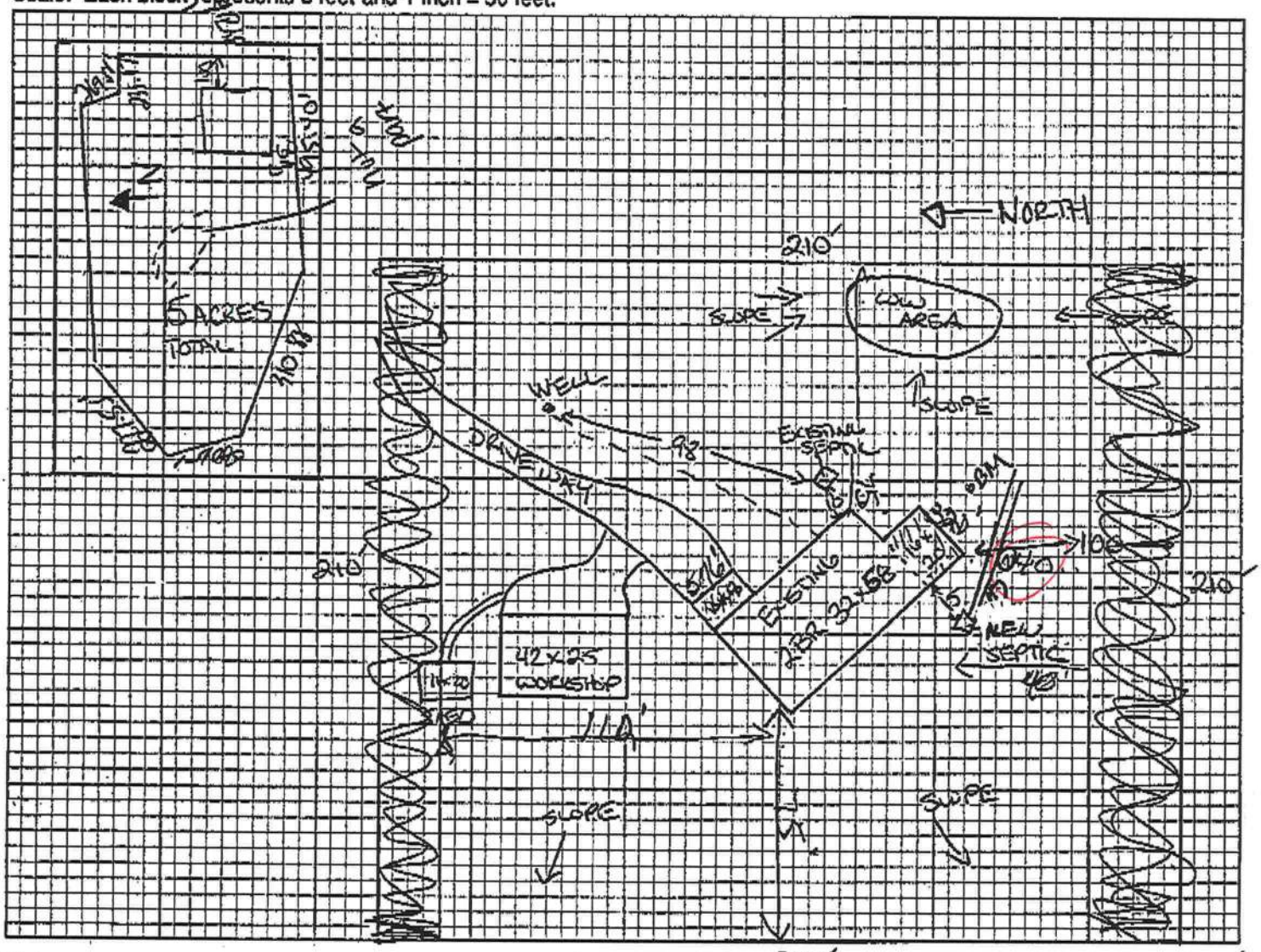
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 10-0032

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: EXISTING 2 BEDROOM, 1 BATH HOUSE W/ EXISTING 900GAL SEPTIC TANK. ADDING 1 BEDROOM AND BATH W/NEW PLAN. NEW TANK WILL ACCOMMODATE THE NEW BEDROOM AND BATH MAKING IT A 3BR AND 2BA HOME WITH 2 SEPTIC TANKS. NEW TANK WILL BE 1050 GAL TANK.

Site Plan submitted by: Merle Jane Byrd (Signature) Owner (Title)

Plan Approved X Not Approved Date 2/1/10

By _____ Columbia CHD County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

This instrument prepared by:
MARVIN W. BINGHAM, JR.,PA
P.O. Box 1930
Alachua, Florida 32616

Inst:2002024916 Date:12/17/2002 Time:11:55
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:970 P:45

Tax Parcel # **a portion of R10026-012**

WARRANTY DEED

THIS INDENTURE, made this 16th day of December, 2002 between **Thomas M. Byrd and Merilyn S. Byrd, Husband and Wife,** whose post office address is 338 SW Bonifay Glen, Fort White, Florida, Grantors , and **Thomas M. Byrd and Merilyn S. Byrd, Husband and Wife,** whose post office address is 338 SW Bonifay Glen, Fort White, Florida, Grantees.

WITNESSETH that said Grantors, for and in consideration of the sum of Ten and no/100 ($10.00) Dollars, and other good and valuable considerations to said Grantors in hand paid by said Grantees, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantees, and Grantees' heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to wit:

See Exhibit A, attached hereto and made a part hereof

SUBJECT TO and together with covenants, easements, reservations and restrictions of record, and taxes for the year 2002 and all subsequent years.

and said Grantors do hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

This deed has been executed to sever the described property from its parent tract for the purpose of establishing each piece as a separate tax parcel.

IN WITNESS WHEREOF, Grantors have hereunto set their hands and seals the day and year first above written.

Signed, sealed and delivered in our presence:

Witness
Print: Vicki Padgett

Thomas M. Byrd

Witness
Print: Jewell Worthington

Merilyn S. Byrd

STATE OF FLORIDA
COUNTY OF ALACHUA

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

EXHIBIT A

DESCRIPTION: PARCEL "A"
Commence at the NE corner of the SE 1/4 of the NE 1/4 of Section 19, Township 7 South, Range 17 East, Columbia County, Florida and thence S.01°55'47"E., 30.00 feet to the centerline of a 60 foot wide road easement; thence S.88°09'27"W., along said centerline, 581.30 feet; thence S.40°58'32"W., still along said centerline, 91.51 feet to the Point of Beginning of lands described in Official Records Book (ORB) 789 Page 2060 of the Official Records of Columbia County, Florida; thence S.25°23'50"E., along the easterly line of said lands a distance of 32.76 feet to a bend in said line; thence S.01°52'40"E., along said East line, 209.76 feet to the Point of Beginning of the herein described lands; thence S.01°52'40"E., still along said line, 337.52 feet to the SE corner of the aforementioned lands described in said ORB 789 page 2060; thence S.88°06'28"W., along the South line of said lands, 495.50 feet to a bend in said line thence N.75°40'16"W., still along said South line, 621.87 feet to the SW corner of said lands and the centerline of said 60 feet road easement; thence N.23°35'30"W., along said centerline, 113.24 feet; thence S.84°01'51"E., 853.97 feet having departed said centerline; thence N.82°19'19"E, 180.82 feet; thence N.25°41'28"W., 208.25 feet; thence S.80°22'53"E., 235.17 feet to the Point of Beginning.
Contains 5.08 acres, more or less.
Together with and subject to the following described road easement:

60-foot road easement along North line of subdivision
A strip of land 60 feet in width being 30 feet each side of a centerline described as follows: Commence at the Southeast corner of Section19, Township 7 South, Range 17 East, Columbia County Florida and run thence S.88°28'11"W. along the South line of said Section 19, 515.46 feet to the Easterly right-of-way line of State Road No. 20 (U.S. Highway 27), thence N.26°36'17"W. along said Easterly right-of-way line, 3664.61 feet to the centerline of said road easement and to the Point of Beginning, thence N.59°19'43"E. along said centerline, 325.94 feet, thence N.23°36'17"W. along said centerline, 285.36 feet, thence N.47°12'03"E. along said centerline, 294.78 feet, thence N.88°09'27"E. along said centerline, 883.07 feet, thence S.44°38'38"E. along said centerline, 91.30 feet, thence N.88°09'27"E. along said centerline, 55.00 feet; thence N.40°58'32"E. along said centerline, 91.51 feet, thence N.88°09'27"E. along said centerline, 581.30 feet to the section line between Sections 19 and 20, thence N.88°19'52"E. along said centerline, 87.42 feet to the West line of Parcel 28 and to the Point of Termination.

Inst:2002024916 Date:12/17/2002 Time:11:55
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:970 P:46

COLUMBIA COUNTY BUILDING DEPARTMENT 6-25-09
RESIDENTIAL CHECK LIST REQUIRMENTS

MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE RESIDENTIAL 2007 EFFECTIVE 1 MARCH 2009 & 2009 SUPPLEMENTS EFFECTIVE 1 MARCH 2009, ONE (1) AND TWO (2) FAMILY DWELLINGS with Supplements and Revision, OF THE NATIONAL ELECTRICAL 2008

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL EFFECTIVE 1 MARCH 2009 & 2009 SUPPLEMENTS EFFECTIVE 1 MARCH 2009. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind speed map) **SHALL BE USED.**

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable		
				Yes	No	N/A
1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✓		
3	Condition space (Sq. Ft.) 1130		Total (Sq. Ft.) under roof 1589	IIIIIII	IIIIIII	IIIII

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	✓		
5	Dimensions of all building set backs	✓		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	✓		
7	Provide a full legal description of property.	✓		

Wind-load Engineering Summary, calculations and any details required

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
8	**Plans or specifications must show compliance with FBCR Chapter 3**	IIIIII	IIIII	IIIIII
		YES	**NO**	**N/A**
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding	✓		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	✓		

Elevations Drawing including:

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys	✓		
18	Location and size of skylights with Florida Product Approval			✓
18	Number of stories			✓
20A	Building height from the established grade to the roofs highest peak	✓		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade			✓
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 613.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	✓		
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)	✓		
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails			✓
28	Identify accessibility of bathroom (see FBCR SECTION 322)	✓		

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing	✓		
31	Any special support required by soil analysis such as piling.			✓
32	Assumed load-bearing valve of soil_____ Pound Per Square Foot			✓
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) **For** structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	✓		

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	✓		
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	✓		

FBCR 320: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Sub mit other approved termite protection methods. **Protection shall be provided by registered termiticides**	✓		

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	✓		
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	✓		

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			✓
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers			✓
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers			✓
42	Attachment of joist to girder			✓
43	Wind load requirements where applicable	✓		
44	Show required under-floor crawl space			✓

45	Show required amount of ventilation opening for under-floor spaces			✓
46	Show required covering of ventilation opening			✓
47	Show the required access opening to access to under-floor spaces			✓
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & inter of the areas structural panel sheathing			✓
49	Show Draftstopping, Fire caulking and Fire blocking	✓		
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309			✓
51	Provide live and dead load rating of floor framing systems (psf).			✓

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls			✓
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown	✓		
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	✓		
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)			✓
57	Indicate where pressure treated wood will be placed	✓		
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas			✓
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	✓		

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses	✓		

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing	✓		
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating	✓		
67	Valley framing and support details	✓		
68	Provide dead load rating of rafter system	✓		

FBCR Table 602,3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	✓		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	✓		

FBCR ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	✓		
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	✓		

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 Residential buildings compliance methods. **Two of the required forms are to be submitted**, *N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	**NO**	**N/A**
73	Show the insulation R value for the following areas of the structure	✓		
74	Attic space	✓		
75	Exterior wall cavity	✓		
76	Crawl space			✓

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	✓		
78	Exhaust fans shown in bathrooms **Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required**	✓		
79	Show clothes dryer route and total run of exhaust duct		✓	

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan		✓	
81	Show the location of water heater	✓	✓	

Private Potable Water

82	Pump motor horse power			✓
83	Reservoir pressure tank gallon capacity			✓
84	Rating of cycle stop valve if used			✓

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	✓		
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by **Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A**	✓		
87	Show the location of smoke detectors & Carbon monoxide detectors	✓		
88	Show service panel, sub-panel, location(s) and total ampere ratings	✓		
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. **For structures** with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	✓		
90	Appliances and HVAC equipment and disconnects	✓		
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed **Combination arc-fault circuit interrupter,** Protection device.	✓		

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**Building Permit Application** A current Building Permit Application form is to be completed and submitted for all residential projects	✓		
93	**Parcel Number** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested	✓		
94	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	✓		
95	**City of Lake City** A permit showing an approved waste water sewer tap			✓
96	**Toilet facilities shall be provided for all construction sites**	✓		
97	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			✓

98	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			✓
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established			✓
100	A development permit will also be required. Development permit cost is **$50.00**		✓	
101	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.			✓
102	**911 Address:** If the project is located in an area where a 911 address has not been issued, then application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125			✓

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

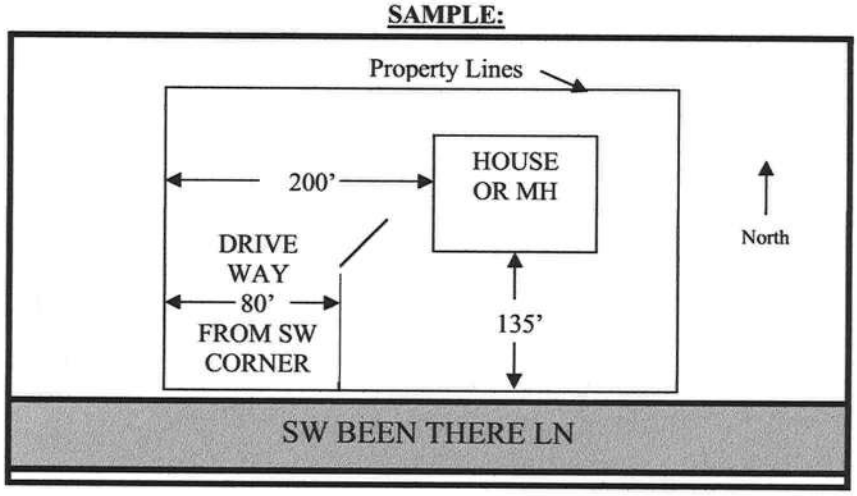
The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

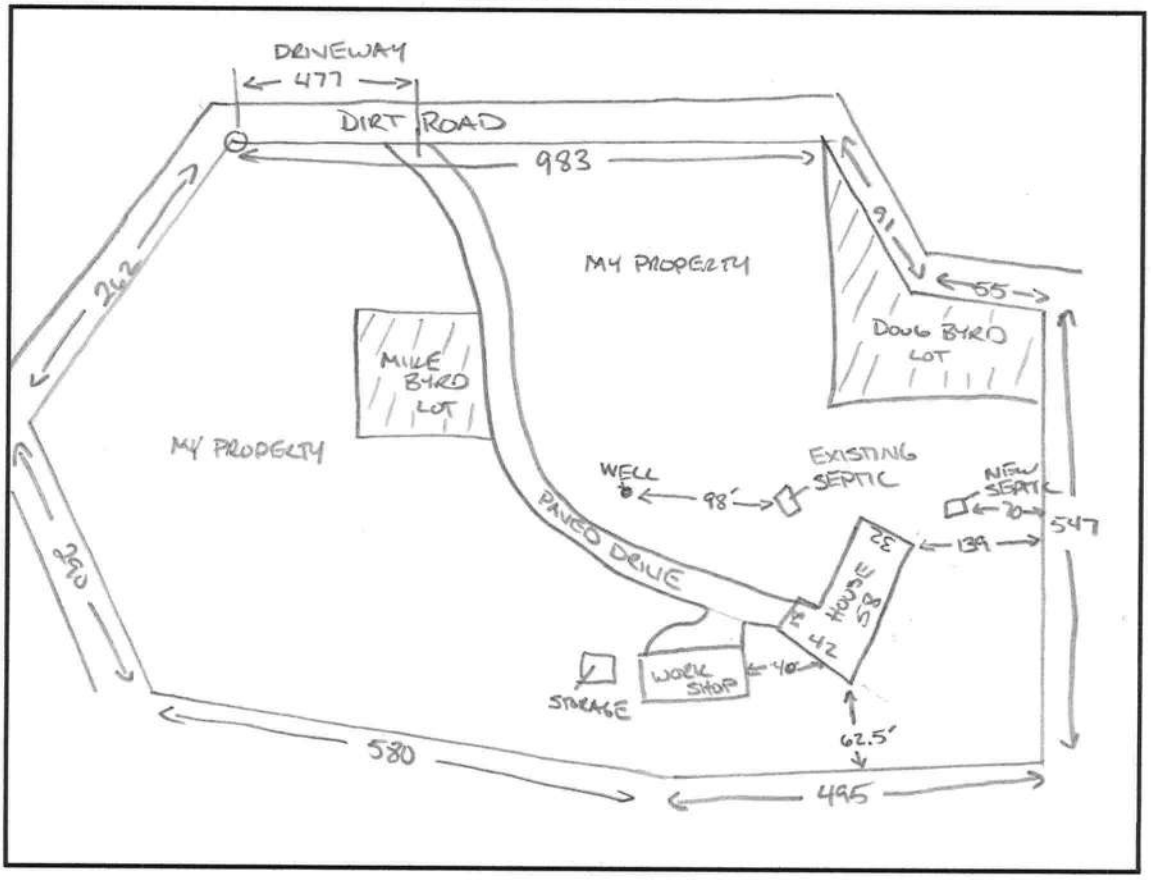
When the submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department

1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



SITE PLAN BOX:



FORM 1100A-08

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name:	912028ByrdAddition	Builder Name:	Byrd
Street:	336 Sw Bonifay Glen	Permit Office:	Columbia
City, State, Zip:	Ft. White , FL , 32038-	Permit Number:	28359
Owner:	Mike & Se Byrd	Jurisdiction:	221000
Design Location:	FL, Gainesville		

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	Yes
6. Conditioned floor area (ft²)	2429

7. Windows	Description	Area
a. U-Factor:	Dbl, U=0.30	348.33 ft²
SHGC:	SHGC=0.30	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
e. U-Factor:	N/A	ft²
SHGC:		

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2429.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Concrete Block - Int Insul, Exterior	R=4.0	2296.30 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	2557.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Attic Ret: Interior AH: Interior Sup. R= 6, 560 ft²

12. Cooling systems
a. Central Unit — Cap: 44.0 kBtu/hr, SEER: 13

13. Heating systems
a. Electric Heat Pump — Cap: 44.0 kBtu/hr, HSPF: 7.9

14. Hot water systems
a. Electric — Cap: 50 gallons, EF: 0.93
b. Conservation features
None

15. Credits — CF, Pstat

Glass/Floor Area: 0.143

Total As-Built Modified Loads: 41.75
Total Baseline Loads: 49.53

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____
DATE: 12/16/09 EVAN BEAMSLEY

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____
DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____
DATE: _____

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

PROJECT

Title:	912028ByrdAddition	Bedrooms:	3	Adress Type:	Street Address
Building Type:	FLAsBuilt	Bathrooms:	0	Lot #	
Owner:	Mike & Se Byrd	Conditioned Area:	2429	SubDivision:	
# of Units:	1	Total Stories:	1	PlatBook:	
Builder Name:		Worst Case:	Yes	Street:	336 Sw Bonifay Glen
Permit Office:		Rotate Angle:	270	County:	Columbia
Jurisdiction:		Cross Ventilation:	No	City, State, Zip:	Ft. White ,
Family Type:	Single-family	Whole House Fan:	No		FL , 32038-
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

√	#	Floor Type	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	144 ft	0	1137 ft²		0.3	0	0.7
_____	2	Slab-On-Grade Edge Insulatio	94 ft	0	1292 ft²		0.3	0	0.7

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	2560 ft²	0 ft²	Dark	0.96	No	0	18.4 deg

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	303	2429 ft²	N	N

CEILING

√	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	1265 ft²	0.11	Wood
_____	2	Under Attic (Vented)	30	1292 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Concrete Block - Int Insul	4	368 ft²	0	0	0.75
_____	2	S	Exterior	Concrete Block - Int Insul	4	376 ft²	0	0	0.75
_____	3	E	Exterior	Concrete Block - Int Insul	4	512 ft²	0	0	0.75
_____	4	W	Exterior	Concrete Block - Int Insul	4	291 ft²	0	0	0.75
_____	5	SE	Exterior	Concrete Block - Int Insul	4	24 ft²	0	0	0.75
_____	6	SW	Exterior	Concrete Block - Int Insul	4	24 ft²	0	0	0.75

WALLS

√	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	7	N	Exterior	Concrete Block - Int Insul	4	320 ft²	0	0	0.75
_____	8	S	Exterior	Concrete Block - Int Insul	4	288 ft²	0	0	0.75
_____	9	W	Exterior	Concrete Block - Int Insul	4	93.33 ft²	0	0	0.75

DOORS

√	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	N	Insulated	None	0.4	20 ft²
_____	2	E	Insulated	None	0.4	20 ft²
_____	3	S	Insulated	None	0.4	20 ft²
_____	4	S	Wood	None	0.46	20 ft²
_____	5	S	Insulated	None	0.4	20 ft²

WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

√	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	Vinyl	Low-E Double	Yes	0.3	0.3	N	9 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	2	N	Vinyl	Low-E Double	Yes	0.3	0.3	N	30 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	3	N	Vinyl	Low-E Double	Yes	0.3	0.3	N	30 ft²	1 ft 6 in	15 ft 0 in	HERS 2006	None
_____	4	N	Vinyl	Low-E Double	Yes	0.3	0.3	N	20 ft²	1 ft 6 in	15 ft 0 in	HERS 2006	None
_____	5	E	Vinyl	Low-E Double	Yes	0.3	0.3	N	30 ft²	0 ft 18 in	0 ft 60 in	HERS 2006	None
_____	6	E	Vinyl	Low-E Double	Yes	0.3	0.3	N	20 ft²	0 ft 120 in	0 ft 60 in	HERS 2006	None
_____	7	E	Vinyl	Low-E Double	Yes	0.3	0.3	N	24 ft²	0 ft 60 in	0 ft 12 in	HERS 2006	None
_____	8	S	Vinyl	Low-E Double	Yes	0.3	0.3	N	13.33 ft²	0 ft 80 in	0 ft 12 in	HERS 2006	None
_____	9	S	Vinyl	Low-E Double	Yes	0.3	0.3	N	45 ft²	0 ft 64 in	0 ft 12 in	HERS 2006	None
_____	10	W	Vinyl	Low-E Double	Yes	0.3	0.3	N	15 ft²	0 ft 18 in	0 ft 60 in	HERS 2006	None
_____	11	SE	Vinyl	Low-E Double	Yes	0.3	0.3	N	12.5 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	12	S	Vinyl	Low-E Double	Yes	0.3	0.3	N	15 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	13	SW	Vinyl	Low-E Double	Yes	0.3	0.3	N	12.5 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	14	S	Vinyl	Low-E Double	Yes	0.3	0.3	N	15 ft²	0 ft 58 in	0 ft 12 in	HERS 2006	None
_____	15	W	Vinyl	Low-E Double	Yes	0.3	0.3	N	30 ft²	0 ft 138 in	0 ft 12 in	HERS 2006	None
_____	16	S	Vinyl	Low-E Double	Yes	0.3	0.3	N	20 ft²	0 ft 204 in	0 ft 12 in	HERS 2006	None
_____	17	W	Vinyl	Low-E Double	Yes	0.3	0.3	N	7 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None

INFILTRATION & VENTING

√	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM	Exhaust CFM	Run Time Fraction	Fan Watts
_____	Default	0.00036	2294	7.08	125.9	236.8	0 cfm	0 cfm	0	0

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
_____	1	Central Unit	None	SEER: 13	44 kBtu/hr	1320 cfm	0.75	

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Ductless
_____	1	Electric Heat Pump	None	HSPF: 7.9	44 kBtu/hr	

HOT WATER SYSTEM

√	#	System Type	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	0.93	50 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
_____	1	Attic	6	560 ft²	Interior	20 ft²	Default Leakage	Interior				

TEMPERATURES

Programable Thermostat: Y Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Heating	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Venting	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM 1100A-08

Code Compliance Cheklist

Residential Whole Building Performance Method A - Details

ADDRESS: 336 Sw Bonifay Glen
Ft. White, FL, 32038-

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 84

The lower the EnergyPerformance Index, the more efficient the home.

336 Sw Bonifay Glen, Ft. White, FL, 32038-

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		3
5. Is this a worst case?		Yes
6. Conditioned floor area (ft²)		2429

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.30	348.33 ft²
SHGC:	SHGC=0.30	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
e. U-Factor:	N/A	ft²
SHGC:		

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2429.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Concrete Block - Int Insul, Exterior	R=4.0	2296.30 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	2557.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Attic Ret: Interior AH: Interior Sup. R= 6, 560 ft²

12. Cooling systems
a. Central Unit — Cap: 44.0 kBtu/hr, SEER: 13

13. Heating systems
a. Electric Heat Pump — Cap: 44.0 kBtu/hr, HSPF: 7.9

14. Hot water systems
a. Electric — Cap: 50 gallons, EF: 0.93

b. Conservation features
None

15. Credits — CF, Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

Residential System Sizing Calculation

Summary

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

12/16/2009

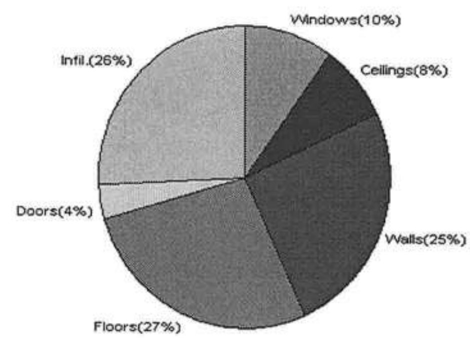
Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)

Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**37900**	**Btuh**	**Total cooling load calculation**	**29779**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.1	44000	Sensible (SHR = 0.75)	141.9	33000
Heat Pump + Auxiliary(0.0kW)	116.1	44000	Latent	169.0	11000
			Total (Electric Heat Pump)	147.8	44000

WINTER CALCULATIONS

Winter Heating Load (for 2429 sqft)

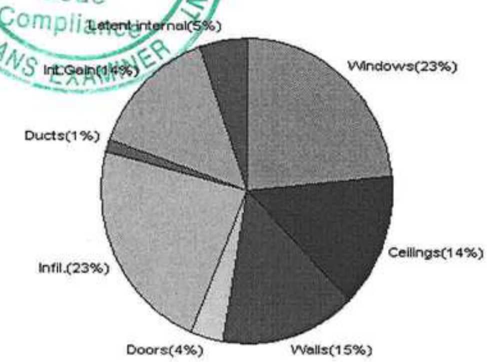
Load component			Load	
Window total	348	sqft	3866	Btuh
Wall total	1845	sqft	9580	Btuh
Door total	100	sqft	1436	Btuh
Ceiling total	2557	sqft	3013	Btuh
Floor total	See detail report		10391	Btuh
Infiltration	239	cfm	9672	Btuh
Duct loss			-58	Btuh
Subtotal			**37900**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**37900**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2429 sqft)

Load component			Load	
Window total	348	sqft	6958	Btuh
Wall total	1845	sqft	4479	Btuh
Door total	100	sqft	1086	Btuh
Ceiling total	2557	sqft	4235	Btuh
Floor total			0	Btuh
Infiltration	123	cfm	2289	Btuh
Internal gain			4240	Btuh
Duct gain			-16	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**23271**	**Btuh**
Latent gain(ducts)			414	Btuh
Latent gain(infiltration)			4495	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**6509**	**Btuh**
TOTAL HEAT GAIN			**29779**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 12/16/09 E/M Bersley

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

12/16/2009

This calculation is for Worst Case. The house has been rotated 315 degrees.

WHOLE HOUSE TOTALS

	Subtotal Sensible	37900 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	37900 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

12/16/2009

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #2: Existing

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, SHGC=0.3, Metal, 0.30	NW	30.0	11.1	333 Btuh
2	2, SHGC=0.3, Metal, 0.30	E	12.5	11.1	139 Btuh
3	2, SHGC=0.3, Metal, 0.30	SE	15.0	11.1	166 Btuh
4	2, SHGC=0.3, Metal, 0.30	S	12.5	11.1	139 Btuh
5	2, SHGC=0.3, Metal, 0.30	SE	15.0	11.1	166 Btuh
6	2, SHGC=0.3, Metal, 0.30	SW	30.0	11.1	333 Btuh
	Window Total		115(sqft)		1277 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete Blk,Filled - Ext(0.12)	4.0	614	4.5	2753 Btuh
	Wall Total		614		2753 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		20	20.0	400 Btuh
	Door Total		20		400Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1292	1.2	1522 Btuh
	Ceiling Total		1292		1522Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	94.0 ft(p)	43.7	4104 Btuh
	Floor Total		94		4104 Btuh
			Zone Envelope Subtotal:		10056 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	10336	238.8	3219 Btuh
Ductload	Partially sealed, R6.0, Supply(Cond.), Return(Cond)			(DLM of 0.00)	-20 Btuh
Zone #2			**Sensible Zone Subtotal**		**13255 Btuh**

Component Loads for Zone #1: Addition

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
2	2, SHGC=0.3, Metal, 0.30	NW	9.0	11.1	100 Btuh
3	2, SHGC=0.3, Metal, 0.30	NW	30.0	11.1	333 Btuh
4	2, SHGC=0.3, Metal, 0.30	NW	20.0	11.1	222 Btuh
5	2, SHGC=0.3, Metal, 0.30	NE	30.0	11.1	333 Btuh
6	2, SHGC=0.3, Metal, 0.30	NE	20.0	11.1	222 Btuh
7	2, SHGC=0.3, Metal, 0.30	NE	24.0	11.1	266 Btuh
8	2, SHGC=0.3, Metal, 0.30	SE	13.3	11.1	148 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

12/16/2009

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
9	2, SHGC=0.3, Metal, 0.30	SE	45.0	11.1	500 Btuh
10	2, SHGC=0.3, Metal, 0.30	SW	15.0	11.1	166 Btuh
11	2, SHGC=0.3, Metal, 0.30	SE	20.0	11.1	222 Btuh
12	2, SHGC=0.3, Metal, 0.30	SW	7.0	11.1	78 Btuh
	Window Total		233(sqft)		2590 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete Blk,Hollow - Ext(0.15)	4.0	1231	5.5	6826 Btuh
	Wall Total		1231		6826 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
4	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		80		1036Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1265	1.2	1491 Btuh
	Ceiling Total		1265		1491Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	144.0 ft(p)	43.7	6287 Btuh
	Floor Total		144		6287 Btuh
			Zone Envelope Subtotal:		18230 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	11370	238.8	6452 Btuh
Ductload	Partially sealed, R6.0, Supply(Cond.), Return(Cond)			(DLM of 0.00)	-37 Btuh
Zone #1			**Sensible Zone Subtotal**		**24645 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	37900 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	37900 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

12/16/2009

This calculation is for Worst Case. The house has been rotated 315 degrees.

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

12/16/2009

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**23287 Btuh**
	Sensible Duct Load	-16 Btuh
	Total Sensible Zone Loads	**23271 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**23271 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4495 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	414 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6509 Btuh**
	TOTAL GAIN	**29779 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

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For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

12/16/2009

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #2: Existing

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, SHGC=0.3, 0.30, None,N,N	NW	1.5ft	6ft.	30.0	0.0	30.0	11	25	761 Btuh
2	2, SHGC=0.3, 0.30, None,N,N	E	1.5ft	6ft.	12.5	0.6	11.9	11	34	412 Btuh
3	2, SHGC=0.3, 0.30, None,N,N	SE	1.5ft	6ft.	15.0	4.6	10.4	11	26	328 Btuh
4	2, SHGC=0.3, 0.30, None,N,N	S	1.5ft	6ft.	12.5	12.5	0.0	11	14	143 Btuh
5	2, SHGC=0.3, 0.30, None,N,N	SE	4.83	6ft.	15.0	15.0	0.0	11	26	172 Btuh
6	2, SHGC=0.3, 0.30, None,N,N	SW	11.5f	7ft.	30.0	30.0	0.0	11	26	343 Btuh
	Window Total				115 (sqft)					2160 Btuh

	Type	R-Value/U-Value	Area(sqft)	HTM	Load
Walls					
1	Concrete Blk,Filled - Ext	4.0/0.12	614.0	2.1	1287 Btuh
	Wall Total		614 (sqft)		1287 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Wood - Exterior		20.0	15.1	302 Btuh
	Door Total		20 (sqft)		302 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1292.0	1.7	2140 Btuh
	Ceiling Total		1292 (sqft)		2140 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	94 (ft(p))	0.0	0 Btuh
	Floor Total		94.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		5889 Btuh

Infiltration	Type	ACH	Volume(cuft)		CFM=	Load
	SensibleNatural	0.34	10336		123.0	762 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		4	X 230	+	2400	3320 Btuh
Duct load	Partially sealed, R6.0, Supply(Conditioned), Return(NoDucts)				DGM = 0.00	-7.0 Btuh
					Sensible Zone Load	**9964 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

12/16/2009

Component Loads for Zone #1: Addition

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, SHGC=0.3, 0.30, None,N,N	NW	1.5ft	4ft.	9.0	0.0	9.0	11	25	228 Btuh
2	2, SHGC=0.3, 0.30, None,N,N	NW	0ft.	0ft.	30.0	0.0	30.0	11	25	761 Btuh
3	2, SHGC=0.3, 0.30, None,N,N	NW	0ft.	0ft.	20.0	0.0	20.0	11	25	507 Btuh
4	2, SHGC=0.3, 0.30, None,N,N	NE	1.5ft	10ft.	30.0	0.0	30.0	11	25	761 Btuh
5	2, SHGC=0.3, 0.30, None,N,N	NE	10ft.	10ft.	20.0	0.0	20.0	11	25	507 Btuh
6	2, SHGC=0.3, 0.30, None,N,N	NE	5ft.	5ft.	24.0	0.0	24.0	11	25	609 Btuh
7	2, SHGC=0.3, 0.30, None,N,N	SE	6.66	8ft.	13.3	13.3	0.0	11	26	152 Btuh
8	2, SHGC=0.3, 0.30, None,N,N	SE	5.33	6ft.	45.0	45.0	0.0	11	26	515 Btuh
9	2, SHGC=0.3, 0.30, None,N,N	SW	1.5ft	10ft.	15.0	0.0	15.0	11	26	397 Btuh
10	2, SHGC=0.3, 0.30, None,N,N	SE	17ft.	7ft.	20.0	20.0	0.0	11	26	229 Btuh
11	2, SHGC=0.3, 0.30, None,N,N	SW	1.5ft	4ft.	7.0	3.6	3.4	11	26	132 Btuh
	Window Total				233 (sqft)					4798 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Concrete Blk,Hollow - Ext	4.0/0.15	1230.7	2.6	3192 Btuh
	Wall Total		1231 (sqft)		3192 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
4	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	80 (sqft)		784 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1265.0	1.7	2095 Btuh
	Ceiling Total		1265 (sqft)		2095 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	144 (ft(p))	0.0	0 Btuh
	Floor Total		144.0 (sqft)		0 Btuh

		Zone Envelope Subtotal:		10869 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.34	11370	123.0	1527 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		4	X 230 +	0	920 Btuh
Duct load	Partially sealed, R6.0, Supply(Conditioned), Return(NoDucts)			DGM = 0.00	-9.4 Btuh
			Sensible Zone Load		**13307 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

Class 3 Rating
Registration No. 0
Climate: North

12/16/2009

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**23287 Btuh**
	Sensible Duct Load	-16 Btuh
	Total Sensible Zone Loads	**23271 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**23271 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4495 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	414 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6509 Btuh**
	TOTAL GAIN	**29779 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

Mike & Se Byrd
336 Sw Bonifay Glen
Ft. White, FL 32038-

Project Title:
912028ByrdAddition

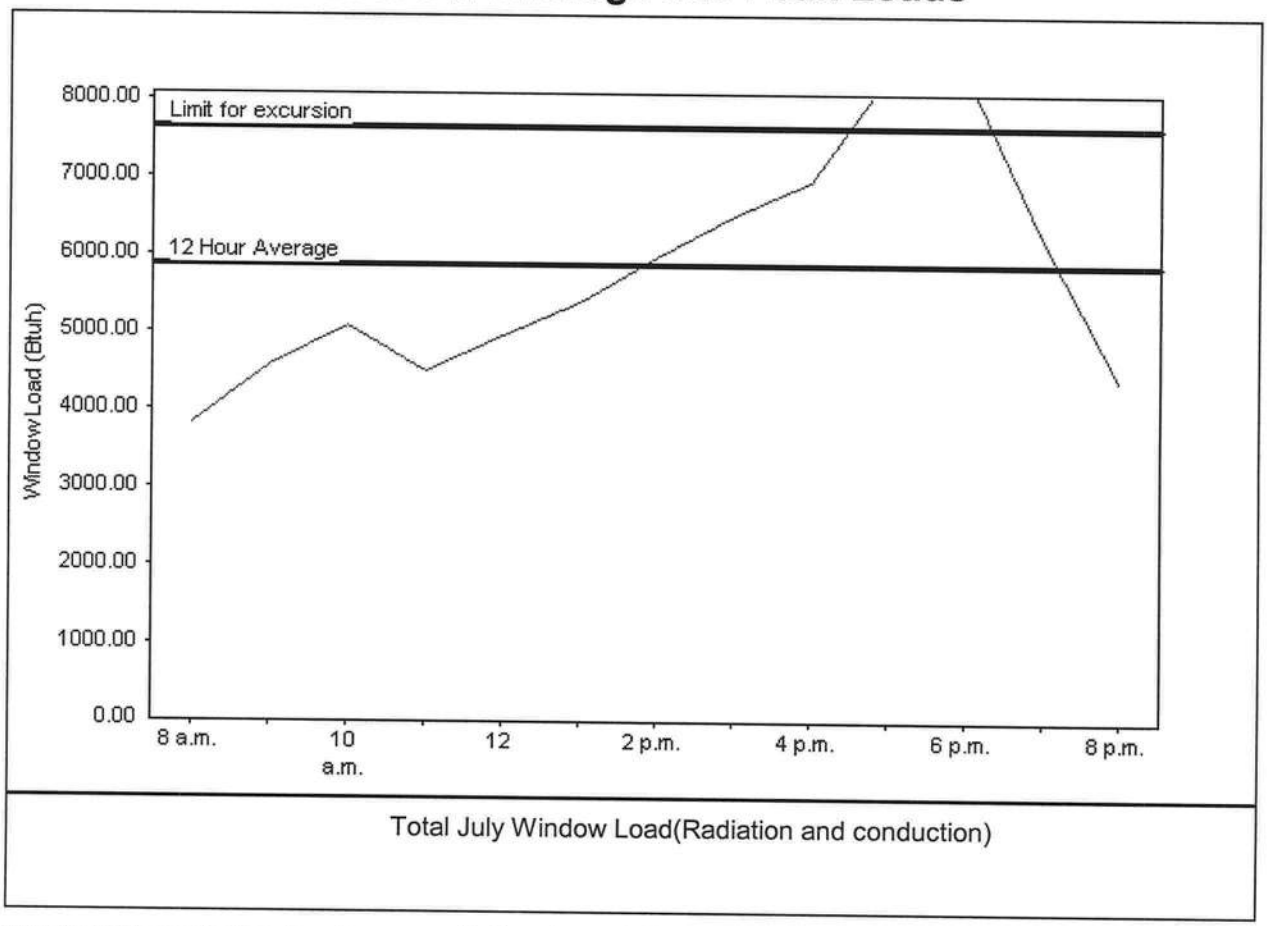
Class 3 Rating
Registration No. 0
Climate: North

12/16/2009

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	5870 Btuh
Summer setpoint	75 F	Peak window load for July	8386 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	7631 Btuh
Latitude	29 North	Window excursion (July)	755 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 12/16/09 EVAN BEAMSLEY

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

OWNER BUILDER DISCLOSURE STATEMENT

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed $75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased with in 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address http://www.myflorida.com/dbpr/pro/cilb/index.html for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

338 SW BONIFAY GLEN, FORT WHITE, FL 32038.

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual of firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of $300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of $100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

TYPE OF CONSTRUCTION

(✓) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding

(✓) Addition, Alteration, Modification or other Improvement

( ) Commercial, Cost of Construction_____ Construction of_____

( ) Other_____

I Merilyn Sue Byrd, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Merilyn Sue Byrd
Owner Builder Signature

Date 1/15/10

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification Drivers License

Notary Signature Lisa Huchingson Date 2/1/10

(Seal) Lisa Huchingson
MY COMMISSION # DD607758
EXPIRES: October 23, 2010
(407)398-0163 FloridaNotaryService.com

FOR BUILDING DEPARTMENT USE ONLY

I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative_____

Revised: 7-23-09
DISCLOSURE STATEMENT 09
Documents: B&Z Forms

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR _____ PHONE _____

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name Merilyn Sue Byrd License #:	Signature Phone #:
MECHANICAL/ A/C _____	Print Name License #:	Signature Phone #:
PLUMBING/ GAS	Print Name License #:	Signature Phone #:
ROOFING	Print Name License #:	Signature Phone #:
SHEET METAL	Print Name License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#:	Signature Phone #:
SOLAR	Print Name License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

Merilyn Sue Byrd
Merilyn Sue Byrd

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR OWNER PHONE 386-454-5309

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name OWNER License #:	Signature _____ Phone #:
MECHANICAL/ A/C _____	Print Name _____ License #:	Signature _____ Phone #:
PLUMBING/ GAS	Print Name _____ License #:	Signature _____ Phone #:
ROOFING	Print Name _____ License #:	Signature _____ Phone #:
SHEET METAL	Print Name _____ License #:	Signature _____ Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name _____ License#:	Signature _____ Phone #:
SOLAR	Print Name _____ License #:	Signature _____ Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON		OWNER	
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

#28359

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number R10026-012

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT**. Section-19-7S R17E

1. Description of property *(legal description)*: SE 1/4 of the NE 1/4 Section 19, Township 7 South Rage 17 East, Columbia FL.
   a) Street *(job)* Address: 338 SW Bonifay Glen, Ft White, FL 32038
2. General description of improvements: Addition
3. 0wner Information
   a) Name and address: Merilyn Sue Byrd 338 SW Bonifay Glen, Ft White, FL 32038
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property Owner
4. Contractor Information
   a) Name and address: _____
   b) Telephone No.: Owner Fax No. (Opt.) _____
5. Surety Information
   a) Name and address: _____
   b) Amount of Bond: n/a
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: n/a
   b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: n/a
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**: _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Merilyn Sue Byrd
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Merilyn Sue Byrd
Print Name

The foregoing instrument was acknowledged before me , a Florida Notary, this 1 day of February, 20 10, by:

Merilyn Byrd as _____ **(type of authority, e.g. officer, trustee, attorney fact) for** _____ **(name of party on behalf of whom instrument was executed).**

Personally Known ____ OR Produced Identification X Type DL

Notary Signature Lisa Huchingson Notary Stamp or Seal:

NOTARY PUBLIC STATE OF FLORIDA (407)398-0163
Lisa Huchingson
MY COMMISSION # DD607758
EXPIRES: October 23, 2010
FloridaNotaryService.com

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief. Merilyn Sue Byrd
Signature of Natural Person Signing (in line #10 above.)

Inst:201012002056 Date:2/11/2010 Time:8:44 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1188 P:2640

PRODUCT APPROVAL SPECIFICATION SHEET

Location: 338 SW BONITA GLEN, FORT WHITE, FL 32038 **Project Name:** MIKE/SUE BYRD ADDITION

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	THERMA-TRU	EXTERIOR DOOR ASSEMBLIES	FL12441
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	BETTER BUILT	3540 SERIES, WHITE VINYL, INSULATED	FL11547
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed	BETTER BUILT	3540 SERIES, WHITE VINYL, INSULATED	FL11547
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS	GAF	ASPHALT - ARCHITECTURAL SHINGLES	FL10124-R1
1. Asphalt Shingles	GAF	ASPHALT - ARCHITECTURAL SHINGLES	FL10124-R1
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal			
Rf 5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

INSTALLATION INSTRUCTIONS FOR NEW CONSTRUCTION VINYL FIN WINDOWS

READ THESE INSTRUCTIONS COMPLETELY BEFORE BEGINNING. Please inspect your MI Windows and Doors, Inc. product thoroughly before beginning installation. Inspect the opening and the product, and do not install if there is any observable damage or other irregularity. The product specification sheet and warranty include important information regarding your product and may include product-specific installation requirements (for example, types of fasteners to be used with impact resistant windows and limitations on the height at which the product may be installed); if you did not obtain copies please contact MI Windows and Doors, Inc. Local building codes may impose additional requirements, and those codes supercede these instructions.

FAILURE TO FOLLOW THESE INSTRUCTIONS, AND BUILDING CODE REQUIREMENTS, MAY AFFECT THE REMEDIES AVAILABLE UNDER YOUR WARRANTY.

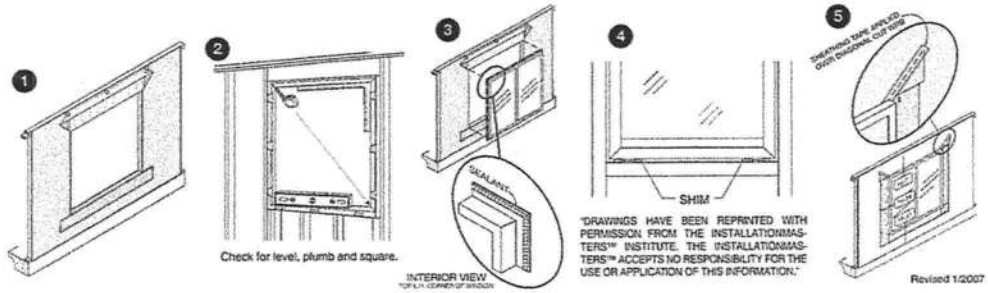
1. IF THE BUILDING HAS A WEATHER RESISTANT BARRIER (WRB) I.E. HOUSE WRAP, PREPARE THE OPENING ACCORDING TO WRB MANUFACTURER'S INSTRUCTIONS. AT EACH TOP CORNER MAKE A 45° CUT IN THE WRB, FOLD UP THE WRB SO THAT THE TOP NAIL FIN OF THE UNIT CAN BE INSTALLED UNDERNEATH IT. (See Figure 1 below) FLASHING OF THE WINDOW OPENING IS RECOMMENDED AND MAY BE REQUIRED BY SOME BUILDING CODES.
2. MAKE SURE THE ROUGH OPENING IS PLUMB, SQUARE AND THE SILL PLATE IS LEVEL. ROUGH OPENINGS SHOULD BE 1/2" LARGER THAN WINDOW FRAME IN WIDTH & HEIGHT. (See Figure 2 below)
3. CLOSE & LOCK THE SASH THROUGHOUT INSTALLATION. KEEP THE SIDE JAMBS PLUMB & SQUARE WITH HEAD AND SILL. BE CAREFUL NOT TO "CROWN UP" OR "BOW DOWN" THE SILL OR HEAD. CONSTANTLY CHECK WIDTH AT THE MEETING RAILS OF SINGLE AND DOUBLE HUNGS (CENTER POINT ON CASEMENTS) TO AVOID A "BOWED OUT" INSTALLATION. WHEN USING FLASHING APPLY THE BOTTOM PIECE BEFORE INSTALLING THE WINDOW. (See Figure 1 below) FLASHING MUST BE RATED TO MEET ASTM D-779, 24 HOUR WATER RESISTANCE TEST.
4. APPLY A CONTINUOUS 3/8" BEAD OF PREMIUM GRADE, COMPATIBLE EXTERIOR SEALANT TO THE INTERIOR (BACKSIDE) OF THE NAIL FIN NEAR THE OUTSIDE EDGE IN LINE WITH THE PRE-PUNCHED HOLES ON **ALL SIDES PRIOR** TO SETTING THE WINDOW INTO THE ROUGH OPENING. (See Figure 3 below)
5. PLACE 1/4" FLAT SHIMS ON THE ROUGH OPENING SILL PLATE UNDER THE BOTTOM CORNERS OF THE WINDOW (See Figure 4 below). DO NOT PLACE SHIMS OR BLOCK UNDER THE SILL EXCEPT AT THE FRAME CORNERS. SET THE WINDOW ONTO THE SHIMS CENTERING THE WINDOW IN THE OPENING ALLOWING EQUAL SPACE ON EITHER SIDE. FOR WINDOWS WITH INTERMEDIATE JAMBS AND ALL SLIDER WINDOWS, CONTINUOUS SHIM OR HORIZONTAL SHIMS ARE RECOMMENDED UNDER EACH INTERMEDIATE JAMB AND MEETING RAIL TO ENSURE SILL IS LEVEL). THESE SILL SHIMS SHOULD REMAIN AFTER INSTALLATION IS COMPLETE. APPLY ADDITIONAL SHIMS AS NECESSARY TO MAINTAIN A LEVEL SILL THROUGHOUT INSTALLATION.
6. PLACE A TEMPORARY FASTENER IN THE SLOT PROVIDED IN THE NAIL FIN ON EACH TOP CORNER. CHECK LEVEL AND SQUARE OF THE WINDOW BY MEASURING THE DIAGONALS. OPEN BOTTOM SASH, CHECK THE "REVEAL" (SPACE) BETWEEN THE BOTTOM OF THE SASH AND THE WINDOW SILL. CLOSE AND RELOCK THE SASH, ADJUST IF NECESSARY. PLACE ADDITIONAL FASTENERS IN THE BOTTOM CORNERS CHECKING WINDOW AGAIN FOR LEVEL, PLUMB AND SQUARE.
7. SECURE THE WINDOW WITH FASTENERS THAT PENETRATE THE FRAMING BY A MINIMUM OF 1". CARE SHOULD BE TAKEN TO INSTALL FASTENERS STRAIGHT, NOT ANGLED. KEEP THE SASH LOCKED UNTIL ALL SIDES ARE SECURE. PRIOR TO FASTENING THE SILL AND HEAD BE SURE THEY ARE STRAIGHT AND LEVEL. FASTENERS SHOULD BE APPLIED SECURELY INTO EVERY OTHER SLOT ON ALL SIDES. DO NOT DISTORT THE NAIL FIN WITH THE FASTENERS.
8. APPLY SEALANT OVER EXPOSED FASTENER HEADS, ANY UNUSED SLOTS AND THE OUTSIDE EDGE OF THE NAIL FIN WHERE IT COMES IN CONTACT WITH THE WRB/SHEATING. **OR IF FLASHING (WINDOW TAPE) IS BEING USED** - NOTE: SILL FLASHING SHOULD HAVE BEEN APPLIED PRIOR TO INSTALLING THE WINDOW. APPLY THE SIDE FLASHING ON TOP OF THE NAIL FIN, OVERLAPPING THE SILL FLASHING AND EXTENDING UP PAST THE TOP NAIL FIN APPROXIMATELY 2". THEN APPLY THE TOP FLASHING ALSO OVER THE NAIL FIN, OVERLAPPING THE SIDE PIECES AND EXTENDING PAST THE SIDE FLASHING BY APPROXIMATELY 1". LASTLY FOLD DOWN THE WRB FLAP OVER THE FLASHING, TAPE THE DIAGONAL CUTS ABOVE EACH CORNER. (SEE FIGURE #5 BELOW)
9. PLACE SHIMS AT THE MEETING RAIL/CHECK RAIL ON THE SIDE JAMBS TO PREVENT BOWING. THESE SHIMS SHOULD REMAIN AFTER INSTALLATION. CAUTION SHOULD BE TAKEN AS TO NOT OVER SHIM, CAUSING DEFLECTION OF THE FRAME AND HINDER SASH OPERATION. CHECK THE FRAME WIDTH AT TOP, MIDDLE AND BOTTOM. IF NOT THE SAME, SHIM ACCORDINGLY. UNLOCK AND OPERATE THE SASH(S). VISUALLY INSPECT ALL SIGHT LINES. ADJUST OR SHIM AS REQUIRED TO ASSURE CONSISTENT SASH REVEAL AND EASE OF OPERATION.
10. INSULATE BETWEEN THE WINDOW FRAME & ROUGH OPENING WITH FIBERGLASS INSULATION OR EQUAL. THE SPACE MAY BE EFFECTIVELY FILLED WITH MEASURED USE OF LOW EXPANSION FOAM BUT ONLY AFTER DETERMINING THAT FOAM WILL NOT EXERT PRESSURE AGAINST THE FRAME, WHICH CAN IMPAIR OPERATION. DISTORTION OF THE FRAME WILL AFFECT THE USER'S RIGHTS UNDER THE WARRANTY.
11. ALLOW A 1/4" GAP BETWEEN THE EXTERIOR CLADDING, SIDING, BRICK, STUCCO OR STONE AND THE WINDOW FRAME ON ALL SIDES (EXCEPT VINYL J CHANNEL). THE GAP (EXPANSION JOINT) SHOULD BE FILLED WITH CORRECT SIZE BACKER ROD, THEN SEALED WITH A HIGH GRADE EXTERIOR SEALANT AND WILL NEED TO BE MAINTAINED.

CAUTION:

- USE OF SOLVENTS OR ACIDS WILL DAMAGE COMPONENTS OF THIS PRODUCT AND WILL LIMIT RIGHTS UNDER THE WARRANTY
- VINYL WINDOWS HAVE PRE-PUNCHED SLOTS FOR INSTALLATION - FASTENING IN ANY OTHER PORTION MAY PERMANENTLY DAMAGE UNIT WHICH WILL LIMIT RIGHTS UNDER THE WARRANTY.
- IT IS THE SOLE RESPONSIBILITY OF THE OWNER, ARCHITECT, AND/OR BUILDER TO SELECT CORRECT PRODUCTS TO BE IN COMPLIANCE WITH APPLICABLE LAWS, SITE REQUIREMENTS AND BUILDING CODES AND TO ENSURE THAT INSTALLATION IS IN COMPLIANCE WITH APPLICABLE LAWS, SITE REQUIREMENTS AND BUILDING CODES.
- DO NOT STORE IN THE SUN OR LAY FLAT BEFORE OR DURING INSTALLATION.
- ANY PENETRATIONS (e.g. ALARM SENSORS) MADE THROUGH ANY PORTION OF ANY M.I., BETTERBILT OR CAPITOL PRODUCT MAY AFFECT RIGHTS UNDER THE MANUFACTURER'S WARRANTY.
- SOME LAWS AND BUILDING CODES REQUIRE SAFETY GLASS. THE ORDERING PARTY IS RESPONSIBLE TO SPECIFY SAFETY GLASS AND ENSURE COMPLIANCE WITH LOCAL LAWS AND BUILDING CODES.

THESE INSTRUCTIONS ARE MINIMUM REQUIREMENTS ONLY, CHECK STATE AND LOCAL CODE RESTRICTIONS FOR ADDITIONAL COMPLIANCE ON INSTALLATION AND/OR FASTENING. IF UNIT HAS EXTERIOR TRIM (BRICKMOULD/J CHANNEL, ETC.) THE UNIT MUST BE SEALED BEHIND THE NAIL FIN. THE TRIM IS PROVIDED FOR AESTHETIC PURPOSES ONLY, AND NOT DESIGNED TO BE WATER TIGHT. INSTALLATION INTO MASONRY OR REPLACEMENT OPENINGS MUST BE SEALED TO THE OPENINGS USING AN APPROVED, PROPER METHOD. REFER TO AAMA 2400 AND/OR ASTM 2112 STANDARDS.

These installation instructions are provided for information only; no representation and warranty is made that these instructions set forth all of the information necessary for proper installation of the product. Given the variety of field conditions, primary responsibility for product installation rests with the installer. Do not proceed unless you have addressed the factors necessary to achieve weather-tight installation of a properly functioning product. MI Windows and Doors, Inc. assumes no liability for any personal injury or property damage incurred in installation. These instructions, together with the product specifications and warranty set forth the entire liability of MI Windows and Doors, Inc. with regard to the product.



Check for level, plumb and square.

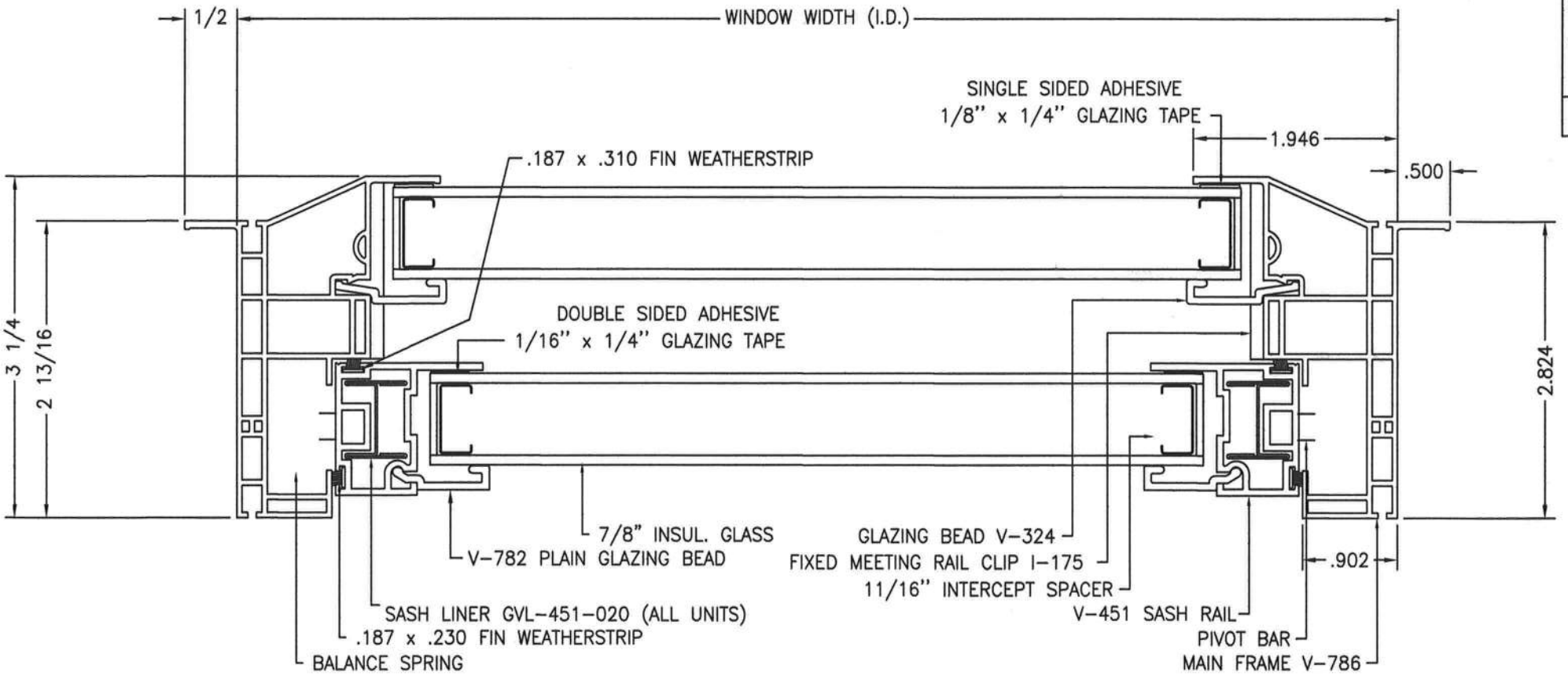
INTERIOR VIEW
TOP L.H. CORNER OF WINDOW

"DRAWINGS HAVE BEEN REPRINTED WITH PERMISSION FROM THE INSTALLATIONMASTERS™ INSTITUTE. THE INSTALLATIONMASTERS™ ACCEPTS NO RESPONSIBILITY FOR THE USE OR APPLICATION OF THIS INFORMATION."

Revised 1/2007

Individual products may be subject to a variation in performance

3540-AS2a D



PARTS NOT SHOWN:
BALANCE FOAM PAD – JPM1
BALANCE SHOE – I-198
BALANCE HOLDER – I-200 & I-210
BALANCE BUSHING – 566

LTR.	DESCRIPTION	BY	DATE
	REVISIONS		

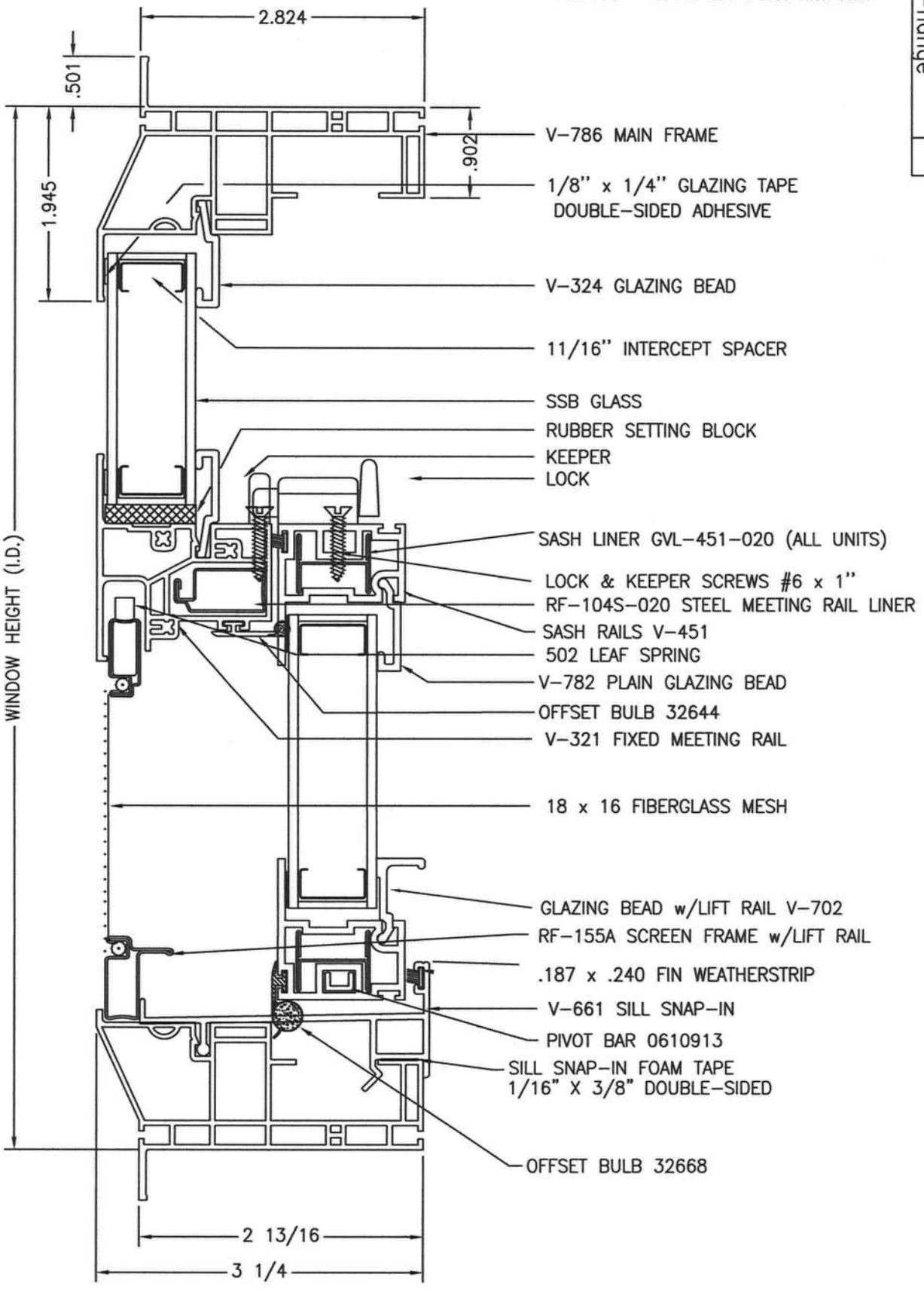
MI WINDOWS AND DOORS
650 WEST MARKET STREET • GRATZ, PA • 17030-0370

TITLE 3540 SERIES VINYL SINGLE-HUNG
1/2" FLANGE FRAME HORIZONTAL CROSS SECTION

DFTM.	DATE	SCALE	DWG/PART NO.	REV.
V.M.R.	11-8-91	FULL	3540-AS2a	D

3540-flange

PARTS NOT SHOWN:
MEETING RAIL END CAP I-175
PILE PAD – .591 x .871 x .400 HIGH PILE

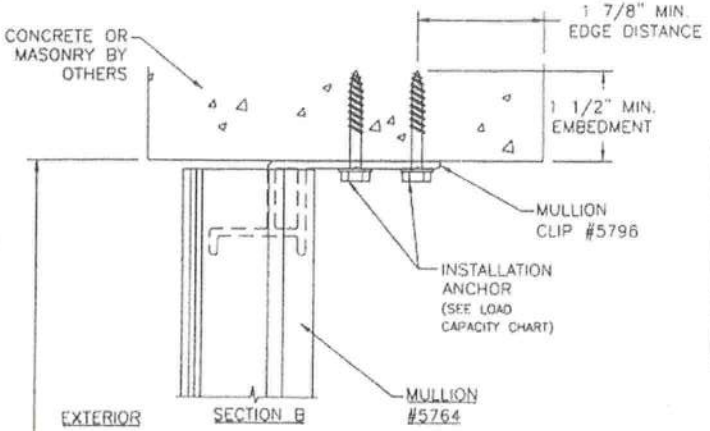


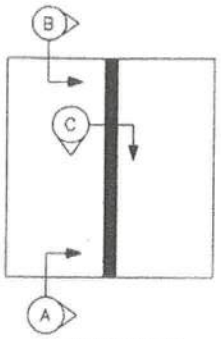
LTR	DESCRIPTION	BY	DATE
	REVISIONS		

MI WINDOWS AND DOORS
650 WEST MARKET STREET • GRATZ, PA • 17030-0370

TITLE 3540 SERIES VINYL SINGLE-HUNG
1/2" FLANGE FRAME VERTICAL CROSS SECTION

DFTM	DATE	SCALE	DWG/PART NO.	REV
V.M.R.	7-13-05	FULL	3540-flange	F





TWIN MULLED W/MULLION #5764 EXTERIOR ELEVATION

LOAD CAPACITIES OF ANCHORS

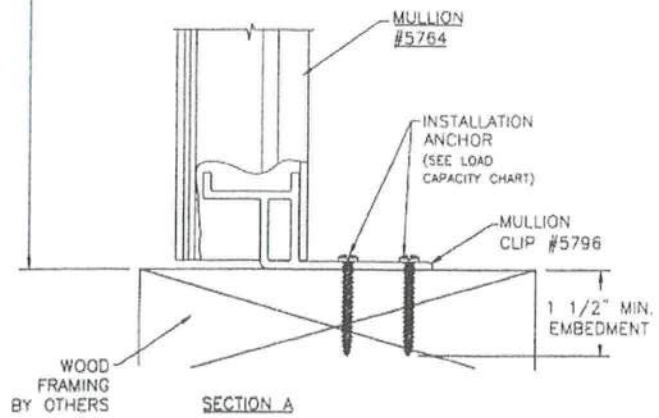
DESCRIPTION		PSF
MULLION CLIP #5796		70
QTY.		
(2)	#10 SWS W/1.5" MIN. EMBEDMENT	58
(2)	#10 SWS W/1.9" MIN. EMBEDMENT	70
(4)	#10 SWS W/1.5" MIN. EMBEDMENT	70
(2)	3/16" TAPCONS W/2 1/4" MIN. O.C. SPACING	70

VERTICAL MULLION DESIGN LOAD CAPACITIES CHART FOR MULLION 5764

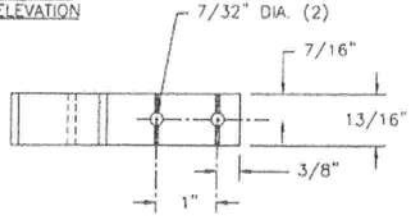
WDW. WIDTH > MULL SPAN v	24.000	30.000	36.000	37.000	42.000	48.000	53.125
36.000	70	70	70	70	70	70	70
42.000	70	70	70	70	70	70	70
48.000	70	70	70	70	70	70	70
50.625	70	70	70	70	70	70	70
60.000	70	70	66	64	59	55	53
63.000	70	68	59	57	53	49	46
72.000	62	51	44	43	39	35	33

SECTION C

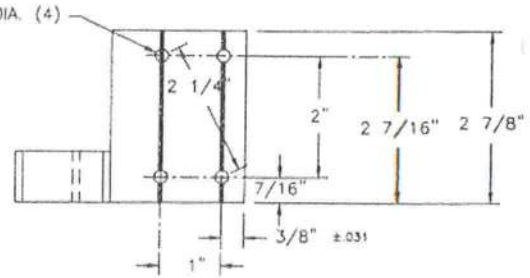
EXTERIOR



SECTION A



MULLION CLIP #5796 VERSION A (WOOD SUBSTRATE ONLY)



MULLION CLIP #5796 VERSION B

MULLION SPECIFICATION NOTES:
1) CHART APPLIES ONLY TO MULLION 5764 WHEN USED TO MULL SERIES 165, 185, 740, 3000, 3185, 3240, 3540 AND 3740 WINDOWS SIDE BY SIDE.
2) READ WINDOW WIDTH AND MULL SPAN IN INCHES.
3) DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
4) DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.
5) REFER TO REPORT #245 FOR MORE MULLION SPECIFICATIONS.

NOTE:
1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2004 FLORIDA BUILDING CODE, SECTION 1714.5.5.
2) MULLION INSTALLATION DETAILS APPLY TO ALUMINUM TUBE MULLION, DIE NUMBER 5764, WHEN USED TO MULL WINDOWS SIDE BY SIDE.
3) APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
4) USE 3/16" DIAMETER TAPCON ANCHOR OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO MASONRY OR CONCRETE. 3/16" DIAMETER TAPCON MUST HAVE A 1 7/8" MINIMUM EDGE DISTANCE FROM EDGE OF MASONRY OR CONCRETE.
5) USE #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING.

SYM	REVISION	DATE	BY

Roberto Lomas
P.E. No. 62524
STATE OF FLORIDA

Product Technology Corporation
1150 Louisiana Ave., Suite 6
Winter Park, Florida 32789
FBPE Certificate of Authorization No. 25935

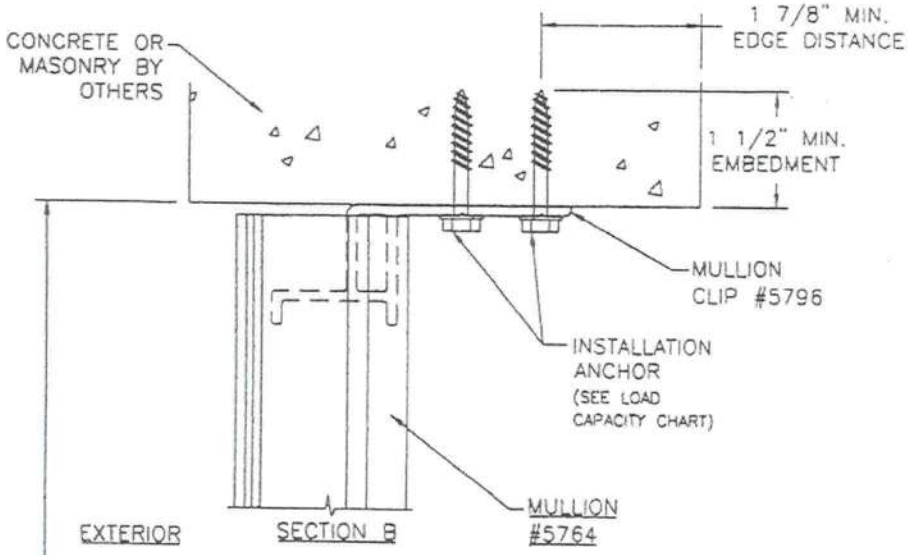
MI WINDOWS AND DOORS
GRATZ, PA.
MULLION 5764 FLANGE (V83)
VERTICAL ALUMINUM TUBE MULLION

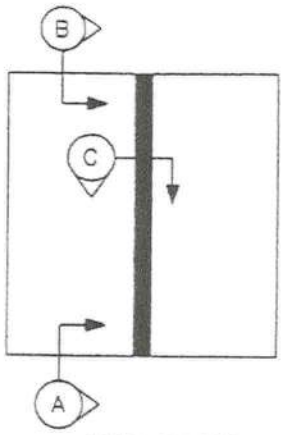
PREPARED BY: PTC Product Technology Corporation
Phone 407.622.6334 Fax 407.622.6335

DRN:	DRL
DATE:	02/02/06
SCALE:	N.T.S.
DWG. NO:	MIH0065
REV:	
SHEET:	1 OF 1

MIP-5687

Left Side





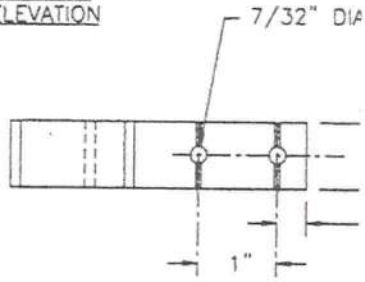
TWIN MULLED W/MULLION #5764 EXTERIOR ELEVATION

LOAD CAPACITI	
	DESCRIP
	MULLION CL
QTY.	
(2)	#10 SWS W/1.5"
(2)	#10 SWS W/1.9"
(4)	#10 SWS W/1.5"
(2)	3/16" TAPCONS W.

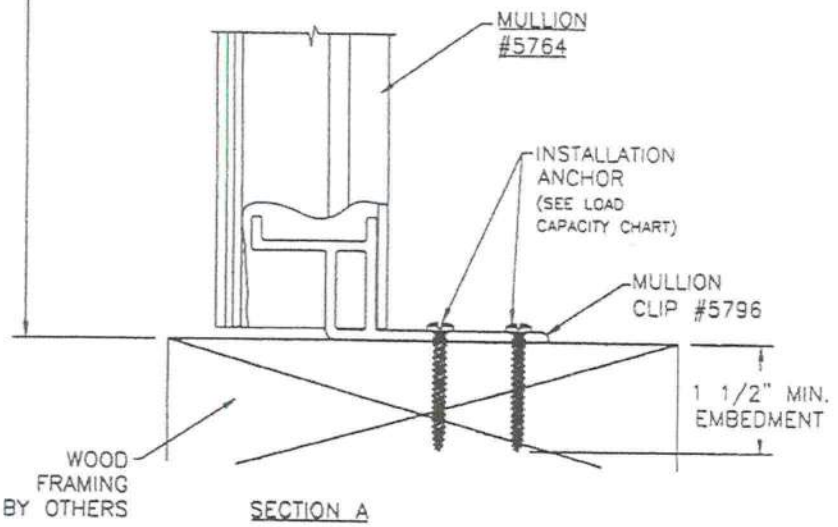
SECTION C

ROUGH OPENING

EXTERIOR



MULLION CLIP #5796 VERSION A (WOOD SUBSTRATE ONLY)



SECTION A

MULLION SPECIFICATION NOTES:

1) CHART APPLIES ONLY TO MULLION 5764 WHEN USED TO MUL 165, 185, 740, 3000, 3185, 3240, 3540 AND 3740 WINDO BY SIDE.
2) READ WINDOW WIDTH AND MULL SPAN IN INCHES.
3) DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE ANI
4) DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO C WINDOWS ARE LISTED IN A SINGLE OPENING.
5) REFER TO REPORT #245 FOR MORE MULLION SPECIFICATIONS

SYM	REVISION	DATE

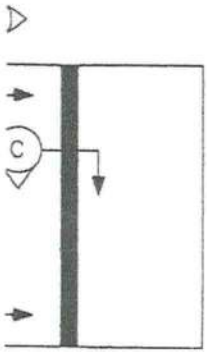
Right Side

LOAD CAPACITIES OF ANCHORS

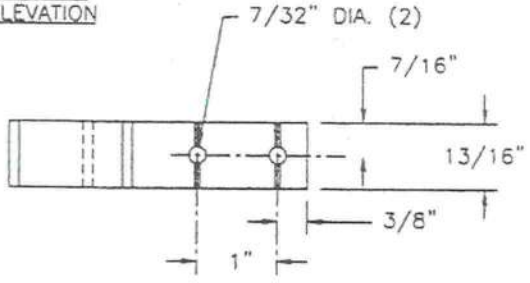
DESCRIPTION		PSF
MULLION CLIP #5796		70
QTY.		
(2)	#10 SWS W/1.5" MIN. EMBEDMENT	58
(2)	#10 SWS W/1.9" MIN. EMBEDMENT	70
(4)	#10 SWS W/1.5" MIN. EMBEDMENT	70
(2)	3/16" TAPCONS W/2 1/4" MIN. O.C. SPACING	70

VERTICAL MULLION DESIGN LOAD CAPACITIES CHART
FOR MULLION 5764

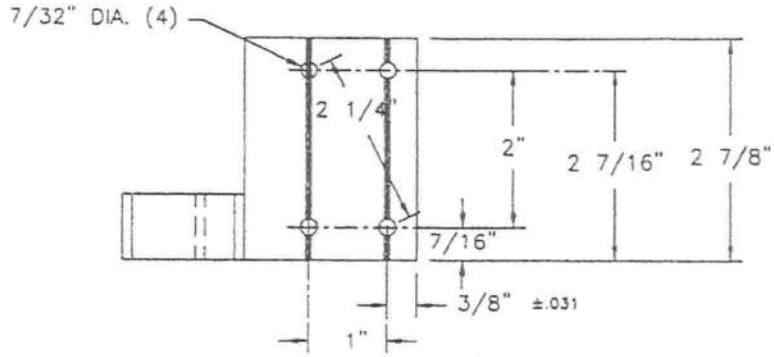
WDW. WIDTH > MULL SPAN V	24.000	30.000	36.000	37.000	42.000	48.000	53.125
36.000	70	70	70	70	70	70	70
42.000	70	70	70	70	70	70	70
48.000	70	70	70	70	70	70	70
50.625	70	70	70	70	70	70	70
60.000	70	70	66	64	59	55	53
63.000	70	68	59	57	53	49	46
72.000	62	51	44	43	39	35	33



TWIN MULLED
/MULLION #5764
TERIOR ELEVATION



MULLION CLIP #5796
VERSION A
(WOOD SUBSTRATE ONLY)



MULLION CLIP #5796
VERSION B

IFICATION NOTES:
APPLIES ONLY TO MULLION 5764 WHEN USED TO MULL SERIES
95, 740, 3000, 3185, 3240, 3540 AND 3740 WINDOWS SIDE
E.
INDOW WIDTH AND MULL SPAN IN INCHES.
PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE
WS ARE LISTED IN A SINGLE OPENING.
TO REPORT #245 FOR MORE MULLION SPECIFICATIONS.

NOTE:
1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2004 FLORIDA BUILDING CODE, SECTION 1714.5.5..
2) MULLION INSTALLATION DETAILS APPLY TO ALUMINUM TUBE MULLION, DIE NUMBER 5764, WHEN USED TO MULL WINDOWS SIDE BY SIDE.
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4) USE 3/16" DIAMETER TAPCON ANCHOR OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO MASONRY OR CONCRETE. 3/16" DIAMETER TAPCON MUST HAVE A 1 7/8" MINIMUM EDGE DISTANCE FROM EDGE OF MASONRY OR CONCRETE.
5) USE #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING.

SYM	REVISION	DATE	BY

Roberto Lomas
P.E. No. 62524
Product Technology Corporation
1150 Louisiana Ave., Suite 6
Winter Park, Florida 32789
FBPE Certificate of Authorization No. 25935

MI WINDOWS AND DOORS
GRATZ, PA.

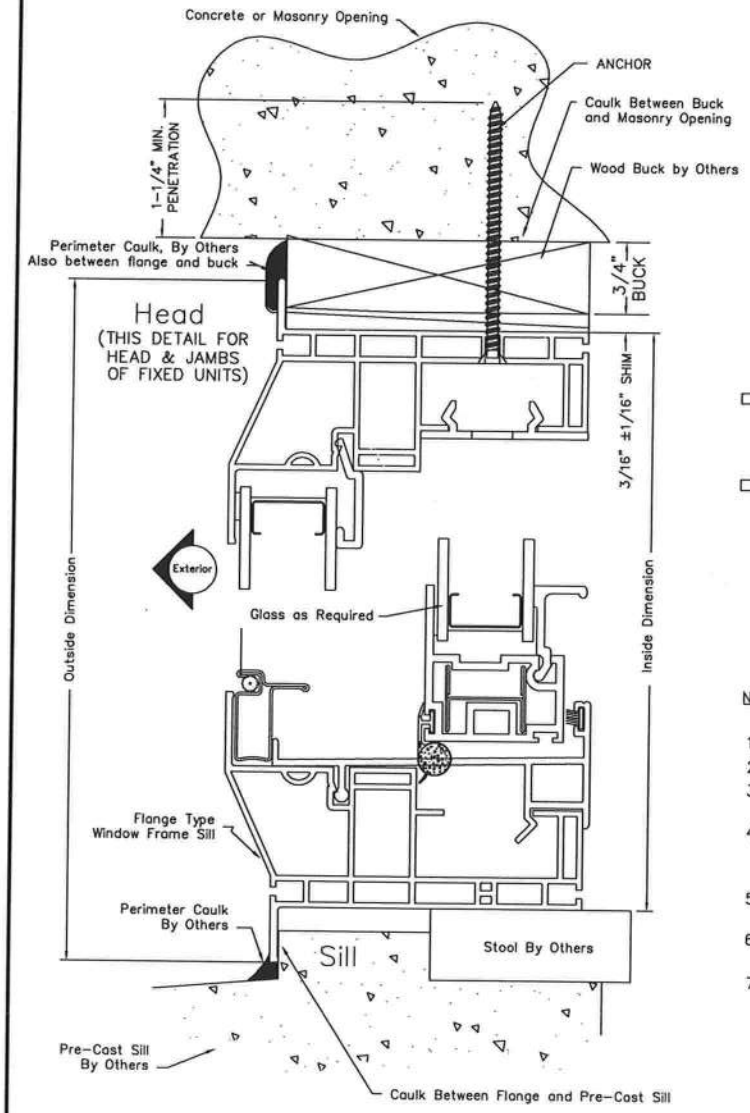
TITLE: MULLION 5764 FLANGE (V83)
VERTICAL ALUMINUM TUBE MULLION

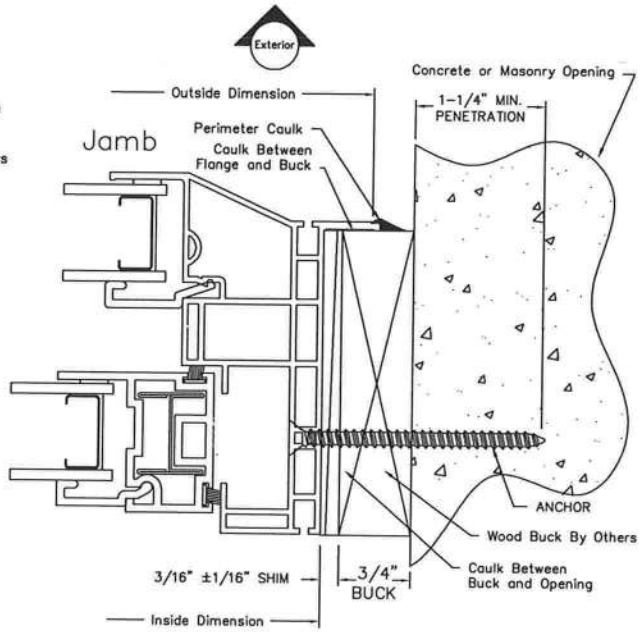
PREPARED BY: PTC Product Technology Corporation
Phone 407.622.6334 Fax 407.622.6335

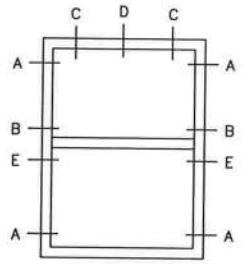
DRN: DRL
DATE: 02/02/06
SCALE: N.T.S.
DWG. NO: MIH0065
REV:
SHEET: 1 OF 1

MIP-5487

REV	DATE	DESCRIPTION	BY







SINGLE HUNG SHOWN

NOTES

1. Locate anchors within 3" of corner or meeting rail, as shown.
2. Shim as required at each installation anchor as shown.
3. Anchor must be of a length to have 1 1/4" penetration into masonry or concrete. Install per manufacturers instructions.
4. Caulk joints (Silicone or Urethane) are shown for information only. Carpenter shall insure that wood buck is water tight. Window installer shall insure that window perimeter is water tight
5. If exact window size is not given, use anchor quantity for next larger window in chart.
6. Letter designations on the anchor location chart indicate where anchors are to be installed using the elevation as a key.
7. Details shown satisfy requirements for listed structural loads. Engineer has not evaluated details for weather or water resistance.

*3/16" DIA. ANCHOR LOCATION CHART – Single Hung

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS	
		UP TO DP35	DP35.1 TO DP50
12	18 1/8 x 25	A	A
13	18 1/8 x 37 3/8	A	A
14	18 1/8 x 49 5/8	A, B	A, B
15	18 1/8 x 62	A, B	A, B
16	18 1/8 x 71 1/4	A, B	A, B
1/2 32	25 1/2 x 25	A	A
1/2 33	25 1/2 x 37 3/8	A	A
1/2 34	25 1/2 x 49 5/8	A, B	A, B
1/2 35	25 1/2 x 62	A, B	A, B
1/2 36	25 1/2 x 71 1/4	A, B	A, B
22	36 x 25	A, D	A, D
23	36 x 37 3/8	A, D	A, D
24	36 x 49 5/8	A, B, D	A, B, D, E
245	36 x 55 1/4	A, B, D	A, B, D, E
25	36 x 62	A, B, D	A, B, D, E
26	36 x 71 1/4	A, B, D	A, B, D, E
32	52 1/8 x 25	A, C, D	A, C, D
33	52 1/8 x 37 3/8	A, C, D	A, C, D
34	52 1/8 x 49 5/8	A, B, C, D	A, B, C, D, E
345	52 1/8 x 55 1/4	A, B, C, D	A, B, C, D, E
35	52 1/8 x 62	A, B, C, D	A, B, C, D, E
36	52 1/8 x 71 1/4	A, B, C, D	A, B, C, D, E

* ANCHORS ARE 3/16" HARDENED MASONRY SCREWS SUCH AS ITW TAPCON (ICBO ER-3370), POWERS TAPPER (ICC-ES ER-5878), OR SIMPSON TITEN (FL 2355.1)

Joseph A. Reed, PE
130 Derry Court
York, Pa 17402
FL PE# 58920

JOSEPH A. REED LICENSE No. 58920 STATE OF FLORIDA PROFESSIONAL ENGINEER

Date: 2006.02.24 07:35:09 -05'00'
Electronic Seal for Electronic Submittal only

PROJECT NO. 62758.01 122-34

PROJECT NAME: 3240/3540 SH or PW
CLIENT: MI Windows and Doors

DRAWING Installation Instructions and Fastener Schedule

Architectural Testing

DWG. BY: MDS
DATE: 2/13/06

SHEET 1 OF 1

THERMA-TRU® DOORS

Builder, Subcontractor or Supplier:

Please forward these instructions to the homeowner.

The application performance standards for these products may be governed by the International Residential Code, International Building Code and other state and jurisdictional requirements. Copies of performance ratings are available on our website at www.thermatru.com.

Installation Instructions for Pre-hung Door Systems

These installation instructions are designed to assist door installers who have an understanding of carpentry principles, and know how to properly and safely use power tools. The purpose of these instructions is to illustrate how to install a Therma-Tru door system using methods and materials that help eliminate water related leaks. If the directions are closely followed, the door system will have a long useful life with good resistance to rain related water intrusion problems.

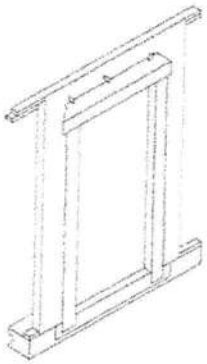
These methods are "tried and true" They are used widely by builders and remodelers who are serious about managing and keeping water outside the home. Rather than eliminate any steps that may be unclear to you, please call 1-800-THERMATRU and ask for clarification. If you remain unclear, please seek more professional assistance with the installation.

Different parts of the country have different code requirements, which may not be covered in these instructions. The installer is responsible for insuring the installation complies with local codes. If you have unique code requirements that do not appear please contact 1-800-THERMATRU.

Required Tools & Materials: 2 & 6 foot Levels, Hammer, Putty Knives (firm & flexible), Framing Square, Caulking Gun, Sturdy Ladder, Shims, Tape Measure, High Quality Elastomeric or Polyurethane Sealant, Screw Gun/Drill -1/8 inch Drill Bit, Razor Knife, #2 & #3 Philips Bit, Stapler, Insulating Material, Eye Protection, Water Resistive Barrier, Flashing Material, #8 x 2-1/2 inch Exterior Grade Screws, & Optional Sill Pan.

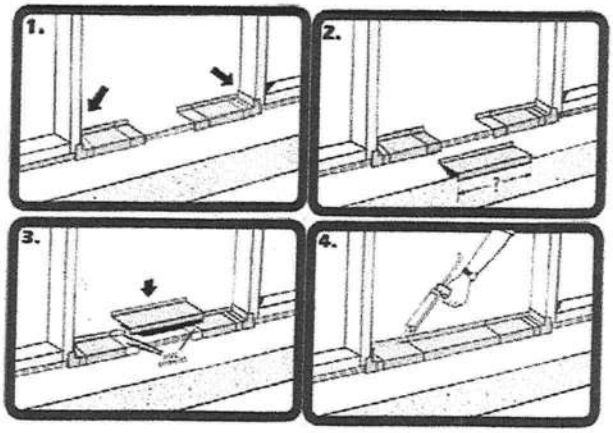
Read all instructions before starting.

Therma-Tru Recommended Best Practices



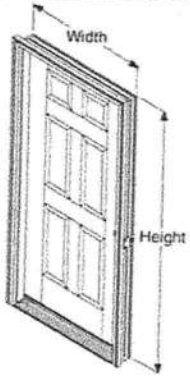
Use Water Resistive Barrier and Flexible Flashing: We recommend the use of a Water Resistive Barrier (WRB) applied to the exterior sheathing (OSB or other) and the use of an adhesive or flexible flashing product to seal around the opening. The WRB should be cut in the opening (follow manufacturer's guidelines) with the head of the flap taped up, to be sealed later in Step 11. The flashing should be applied in an overlapping manner as shown, always working from the bottom up (follow manufacturer's guidelines).

Use a Sill Pan: We recommend you first "dry fit" the sill pan in the opening, following the instructions furnished with the sill pan. Place the right and left sill pan ends tight against the sides of the opening. Check the center section for proper length and if necessary, cut with a hack saw or tin snips. Be sure to allow 2 inches of overlap at the joints.



Note: Use only the PVC cement provided in the sill pan kit to glue the pieces together. The sill pan must be sealed to the sub-floor using an Elastomeric or Polyurethane sealant, but do not apply sealant to the bottom of the sill when using a sill pan.

Step 1: Check Door Unit.

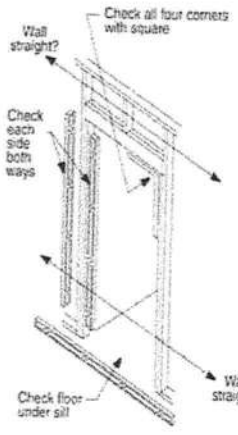


Check width and height.

Measure size of frame (width and height), not brickmould.

Remove cleats and packaging, but keep door fastened closed with transport clip. Do Not remove the transport clip until instructed to do so later in Step 7.

Step 2: Check and Prepare Opening.



Is the opening the correct size for the door unit? Check it against the door frame size now, before installation. The opening should be frame height plus 1/2 inch, and frame width plus 1/2 inch to 3/4 inch. ***Fix any problems now.***

Are the framing and walls **PLUMB**? Use a 6 foot level and check both sides of the opening, both ways (front to back and right to left). ***Fix any problems now.***

Is the sub floor level and solid? ***Provide a flat, level, clean weight bearing surface so the sill pan or sill can be properly caulked and sealed to the opening. Scrape sand or fill as required.***

Note: If additional floor covering clearance is required, attach the shim board to the sub floor. Be sure to caulk well under the shim board.

Is the opening square? Check all corners with a framing square. Double check by comparing diagonal measurements. ***Fix any problems now.***

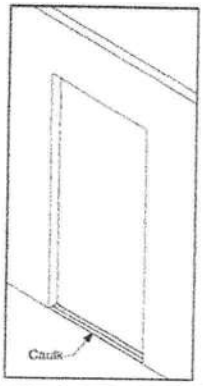
Step 2 cont.: Check and Prepare Opening.

Check to be sure the framing walls around the opening are in the same plane. Do this by performing a "string test" for plumb.

String Test for Plumb: Attach a string diagonally across the opening from the outside, as shown. The string(s) should gently touch in the center, if not the opening is "out of plumb" by twice that distance and needs to be corrected. Flip the string over itself to check both planes. ***Fix any problems now.***

*An "out of plumb" condition is one of the most common reasons door units leak air and water.

Step 3: Caulk the Sub Floor.



On the sub floor at opening, place 3 very large beads of sealant. Run beads full width of the opening.

Use Only Elastomeric or Polyurethane sealant.

Use an Entire Tube when Caulking along the Sub Floor.

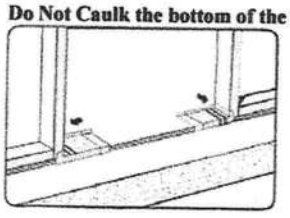
Step 3A: Installation with a Sill Pan.

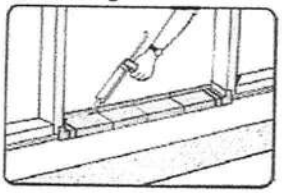
Place the right and left sill pan ends onto the caulk beads and tightly against the side of the opening.

Then, liberally coat the overlapped areas and the recessed areas of the pieces with the PVC cement provided. Place center section(s) in position and hold pieces together long enough to ensure a good bond.

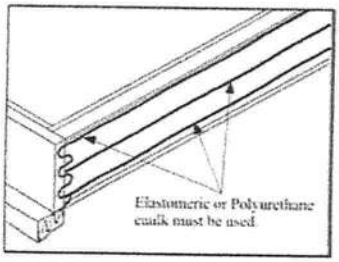
For added protection, spread a bead of caulk along the glue joints and to prevent air infiltration, run a bead of caulk along the lower interior edge of the sill pan. Additional caulking could affect the performance of the sill pan.

Do Not Caulk the bottom of the Sill when using a sill Pan.





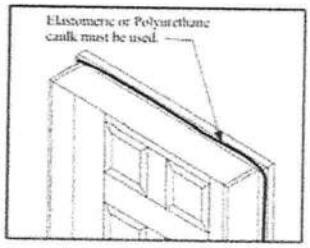
Step 3B: Installation without a Sill Pan.



Lay the door unit on edge or face so that the bottom surface of the sill can be caulked. Place very large beads of caulk across the full width of the sill. Additionally, place beads of caulk along the junction of the sill and the jamb and on the bottom surface of the jambs and brickmould.

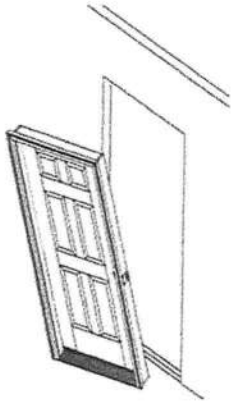
Note: If a sill extender is used, place a large bead of caulk at the junction of the extender and the sill approach.

Step 3 cont.: Caulking Back side of Brickmould.



Important!
Apply sealant to the back side of brickmould around the entire perimeter of the door unit. A 1/2 – 5/8 inch bead of Elastomeric or Polyurethane caulk is essential.

Step 4: Place Unit in Opening and Temporarily Fasten.



Lift the unit up. With top edge tilted away from opening, center the unit and place sill down onto sill pan or caulk beads and tilt into opening.

For all door unit configurations, note the hinge locations and mark those locations on the jamb faces near the door surfaces. Pre-drill 1/8 inch diameter holes at these locations for screw placement. A counter sink bit will help to conceal the screw heads.

Install screws in the center pre-drilled hole locations on both jambs to *temporarily* secure the unit in the place. Do not drive screws completely in at this time. Use #8 X 2-1/2 inch or 3 inch exterior grade screws.

Do Not Fasten through the Brickmould.

Step 4 cont.: Plumb Hinge Side Jamb.

Work from side of the door that is weather-stripped.

Use a 6 foot level and plumb the hinge side jamb both ways (right to left and inside to outside).

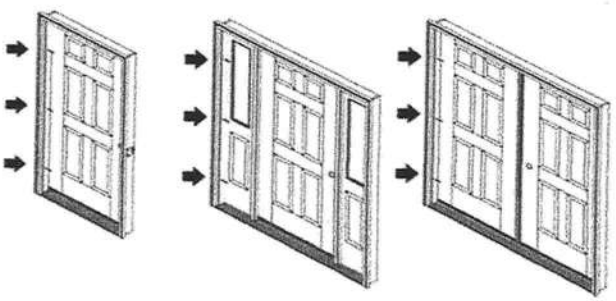
Place screws through the hinge side jamb into the studs, at each remaining hinge location, as shown in the diagrams. Use #8 X 2-1/2 inch or 3 inch exterior grade screws.

Do Not, drive the screws completely in at this time.

For Single or Double Doors, place screws at each hinge location, so shims can be placed behind hinges above screws. The screws will keep the shims from falling down while adjustments are being made.

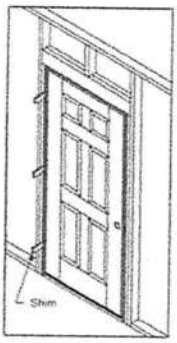
For Sidelite units, fasten the jamb on the hinge side of the door.

For Double Door and Patio Units, fasten the fixed or passive side of the unit first.



Single Unit Sidelite Unit Double Unit

Step 5: Shim at Hinge Locations and Secure Hinge jamb.



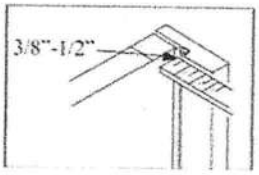
Leave door fastened and closed with transport clip.

Shim above screws, behind each hinge location, between the opening and the jamb.

Use a 6 foot level and re-check hinge jamb to ensure it is **plumb** and straight.

Finish driving screws tight in the middle first then top and bottom last.

Step 6: Adjust Rest of Frame and Fasten.



From the weatherstrip side of the door, check weatherstrip margins and contact.

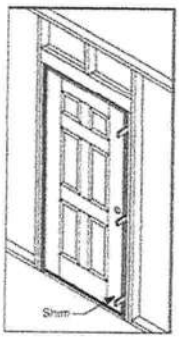
Make frame adjustments so the weatherstrip contacts the door surface equally at the top, middle and bottom, an even 3/8 inch to 1/2 inch when fully closed.

Secure the lock side jamb with #8 X 2-1/2 or 3 inch screws through the pre-drilled holes at the top and bottom. **Do Not** drive screws tight at this time.

From the swing side of the door, shim above the screw locations and make adjustments so the margins between the door and frame are even top to bottom.

Note: For Double Doors, make adjustments that effect the alignment, margins and weatherstrip contact between the doors. Also follow the Astragal Site Package Instructions for details on properly setting the slide bolt hole locations.

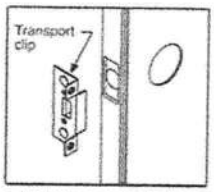
Step 6 cont: Adjust Rest of Frame and Fasten.



Re-check everywhere for plumb and square, and an even weatherstrip contact.

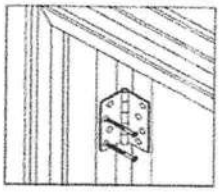
Finish driving all screws tight.

Step 7: Remove Transport Clip and Open Door.



Remove the transport clip.

Open and close door to check for smooth operation.

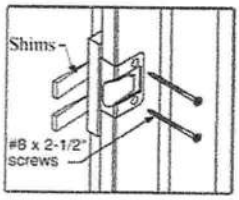


With the door open, drill 1/8 inch diameter pilot holes in the top hinge in the 2 screw hole locations closest to the weatherstrip. Then, install the #10 X 2-1/2 inch screws (provided) through the hinge, into the stud, to anchor the door frame and prevent sagging.

Step 7 cont.: Remove Transport Clip and Open Door.

For Sidelite and Patio Units: With the door open, check to determine if the 2-1/2 inch long hinge screws were pre-installed in the hinges. If not, drill 1/8 inch diameter pilot holes and install the long hinge screws in the hole locations closest to the weatherstrip.

Close the door and carefully shim between the jamb and the opening behind the adjustable strike plate area.

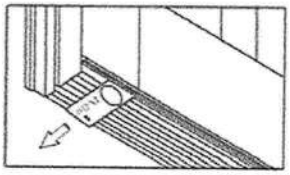


Then open the door and drill 1/8 inch dia. pilot holes and install the #8 X 2-1/2 inch screws (provided) through the strike plate holes to secure the lock side jamb and provide security.

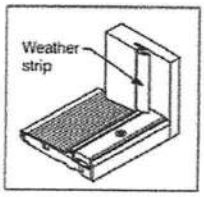
Adjust strike plate in or out for proper weatherstrip contact and door operation, then finish tightening screws.

Step 8: Adjust Sill.

Your door unit may have an adjustable threshold cap. When properly adjusted, it should be snug and slightly difficult to pull a dollar bill out from under the door when it is fully closed. The dollar bill should be able to be removed without tearing.

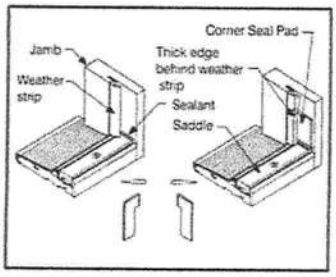


This check should be performed at each adjustment screw location.



After adjusting the threshold cap, ensure that the weatherstrip is ***flush*** with the top of the threshold cap. Trim as necessary.

Step 9: Install Corner Seal Pads – Inswing units Only.



Apply sealant (Polyurethane or Elastomeric) at the joint where the threshold cap meets the door jambs.

Remove the self-stick paper from the corner seal pads and apply to the door jamb, with the *bottom* lined up evenly with the top of the threshold cap. When the pad is correctly installed, the tab is on top and the narrow part is on the bottom.

The bottom of the pad is the same width of the threshold cap to help with alignment during installation.

Step 10: Additional Frame Anchoring.

If sill is prepared for anchoring screws, place appropriate screws through the sill into the sub floor where needed. (Primarily on Outswing Sills)

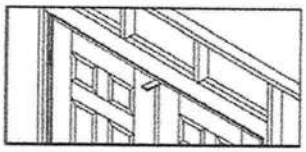
We recommend that you provide additional frame anchoring as shown here. Certain states or jurisdictions, notably Florida and the coast of Texas, have specific installation requirements and may require installation in strict accordance with the product approval for a specific product. You should always check with the local authority having jurisdiction for any specific installation requirements that may apply. Specific product approval installation instructions, including those required for the High Velocity Zone (HVHZ), are also available at www.thermatru.com

Step 10 cont.: Additional Frame Anchoring.

Doors with Sidelites:

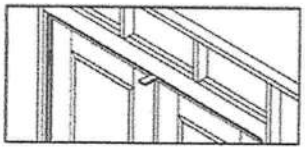
Shim above mull post or jambs separating doors and sidelites. Screw through the frame into the header, adjacent to the shims.

Double doors:



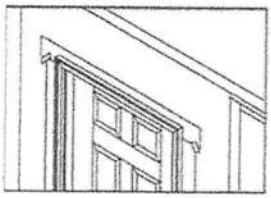
Place *temporary* shims above the center of the head frame, where doors meet. Pre-drill and insert a screw through frame into header, then remove the temporary shims.

Patio Doors:



Shim above the mull post(s), Pre-drill and insert a screw through the frame into the header, at either side of the post.

Step 11: Weatherproof, Finish and Maintain.



Provide and maintain a properly installed cap or head flashing to protect top of surfaces from **Water intrusion** and damage. Tape and properly seal the top flap of the Water Resistive Barrier (WRB) over the head flashing.

Caulk around **entire** "weather" side of unit, sealing along the brickmould to the flashing material or siding and seal all joints between the jambs and moldings.

Seal the joints between the exterior hardware trim and the door face to **prevent** air and water infiltration.

Place and set galvanized finish nails through the brickmould around the perimeter. Use exterior grade screws if you are installing a storm door to the brickmould. Countersink all fasteners and cover with exterior grade putty.

Add insulation material to the cavity between the opening and the unit to reduce **air infiltration** and **heat transfer**.

All Therma-Tru Steel doors must be finished within several days of the installation date for continued warranty coverage. For Fiberglass doors the finishing requirement is within 6 months of installation.

Paint or stain according to Therma Tru Finishing instructions. Do Not paint or stain the weatherstrip, it is "friction-fit" and easily removed for painting or staining.

All 6 sides of the doors must be finished. For out-swing doors the sides, top and bottom must be inspected and maintained as regularly as all other surfaces.

All bare wood surfaces such as the door frame exposed to weather should be primed and painted or stained and top coated ***within*** two weeks of exposure for best performance.

Maintain or replace sealants and finishes as soon as any deterioration is evident. For semi-gloss or glossy paint or clear coats, do this when the surface becomes dull or rough. More severe climates and exposures will require more frequent maintenance.

Access our website www.thermatru.com for printable versions of the installation and Same Day Stain finishing instructions and to view our Troubleshooting video for minor installation issues and adjustments.

Finishing Instructions.

Work only when temperatures are between 50°and 90°F and with humidity less than 85%. Do not finish in direct sunlight.

Steel and Smooth-Star® Doors:

To paint Doors: Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Mask off hardware, glass and remove weatherstripping before painting. Use high-quality acrylic latex house paint, following manufacturer's directions for application. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Paint Doorlite Frames: Remove any excess glass glazing sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the glazing along the edge of the frame. Holding the razor blade at a 45 degree angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits. Clean frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely. Mask off glass. Prime door lite frames with an alkyd- or acrylic-based primer. Allow primer to dry before applying finish paint coats. Use high-quality acrylic latex house paint, following manufacturer's application instructions. Use exterior grade finishes for outside surfaces.

Classic-Craft® and Fiber-Classic® Doors:

To Finish Doorlite Frames and Panel Inserts:

Remove any excess glazing sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the glazing along the edge of the frame. Holding the razor blade at a 45° angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits. Mask off glass. Paint or stain using same materials as for the door. (See below).

To Paint Doors:

Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Prime with an alkyd- or acrylic-based primer. Allow primer to dry completely, then paint with acrylic latex house paint, following paint manufacturer's application instructions. Use a primer and paint that are compatible. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Stain Doors:

Clean first with a clean cloth and mineral spirits and allow to air dry or wash door with mild detergent and water, or a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. For stained surfaces, we only recommend the use of the stain and clear coat products found in the **Therma-Tru Same-Day Stain™ Finishing Kit**. Apply stain with a rag. The longer the stain is left to "setup" before wiping off, the darker the color will be. Using a clean rag, wipe off the stain to the color shade you desire. Remove any excess stain from the panel grooves with the foam brush provided; allow the stain to dry for at least 6 hours before applying topcoat. See **Therma-Tru Same-Day Stain™ Finishing Kit** instructions for complete details.

THERMA-TRU CORPORATION

118 INDUSTRIAL DRIVE
EDGERTON, OHIO 43517
PH. (419) 298–1740

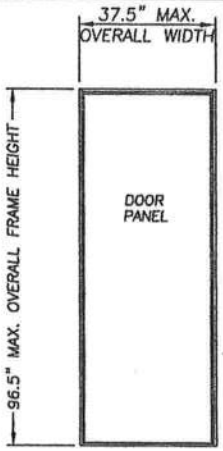
"WOOD FRAME ANCHORING"

SINGLE, SINGLE W/SIDELITES, DOUBLE & DOUBLE WITH SIDELITES

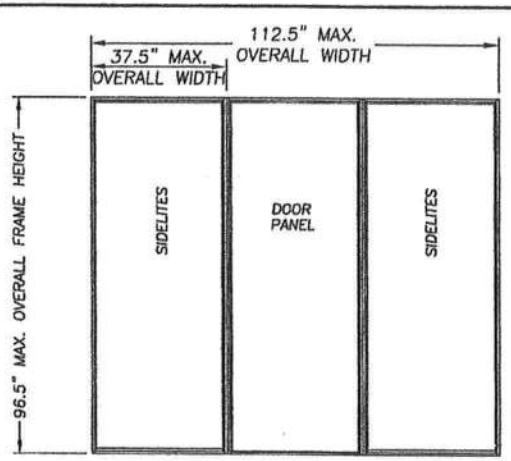
GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE".
2. SEPARATE PRODUCT APPROVALS FOR EACH THERMA–TRU DOOR PRODUCT USED WITH THIS ANCHORING APPROVAL MUST BE SUBMITTED WITH THIS PRODUCT APPROVAL. CONSTRUCTION OF THE ASSEMBLY MUST BE IN ACCORDANCE WITH THE CONSTRUCTION OF THE COMPANION DOOR PRODUCT APPROVAL SUBMITTED.
3. THE DESIGN PRESSURE RATING OF THE TOTAL ASSEMBLY SHALL BE THE LESSER OF THE DP RATING OF THE FRAME ANCHORING SHOWN IN THIS APPROVAL OR THE DP RATING OF THE PRODUCT APPROVAL FOR THE DOOR PRODUCT USED.
4. THE FRAME MATERIAL IS SPRUCE–PINE–FIR (SG = 0.42) OR BETTER MEASURING A MIN. 1–1/4" x 4–9/16" WITH A 1/2" FRAME STOP. MAIN MEMBER (BUCK OR STUD) FRAMING IS SPRUCE–PINE–FIR (SG = 0.42) OR BETTER.
5. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. THIS FRAME ANCHORING APPROVAL ADDRESSES TRANSFER OF WIND LOADS TO THE MAIN STRUCTURE. THE COMPANION DOOR PRODUCT APPROVAL SUBMITTED MUST BE APPROVED IN THE SAME OR SMALLER SIZE, SAME CONFIGURATION AND FRAME MATERIAL.
7. CONDITIONS NOT COVERED BY THIS DRAWING ARE SUBJECT TO FURTHER ENGINEERING ANALYSIS.

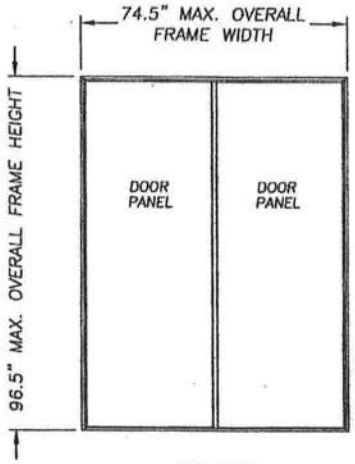
USABLE CONFIGURATIONS: X, OX, XO, OXO, XX, OXXO



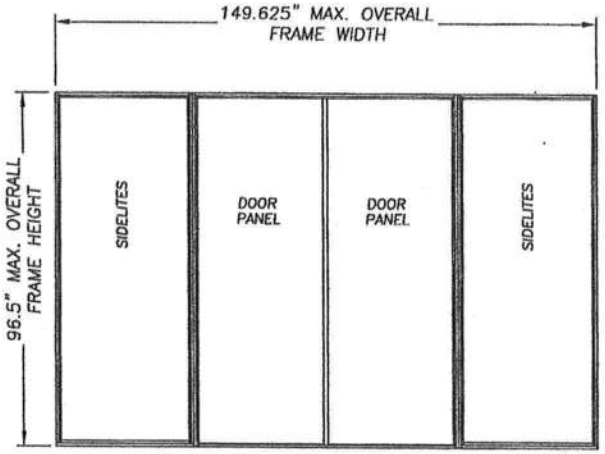
SINGLE



SINGLE W/SIDELITES



DOUBLE



DOUBLE W/SIDELITES

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
2	ANCHOR CROSS SECTION MASONRY IN/OUTSWING WOOD FRAME
3	ANCHOR CROSS SECTION WOOD/STL. STUD IN/OUTSWING WOOD FRAME

UNIT TYPE	MAXIMUM OVERALL NOMINAL SIZE	DESIGN PRESSURE	
		POSITIVE	NEGATIVE
SINGLE W/O SIDELITES	3'0" x 8'0"	+67.0 PSF	-67.0 PSF
SINGLE WITH SIDELITES	9'0" x 8'0"	+67.0 PSF	-67.0 PSF
DOUBLE W/O SIDELITES	6'0" x 8'0"	+60.0 PSF	-60.0 PSF
DOUBLE WITH SIDELITES	12'0" x 8'0"	+60.0 PSF	-60.0 PSF

Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9797
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Hurley, P.E. No. 54158
9/21/05

PRODUCT: THERMA–TRU INSWING / OUTSWING WOOD FRAME SYSTEM ANCHORING

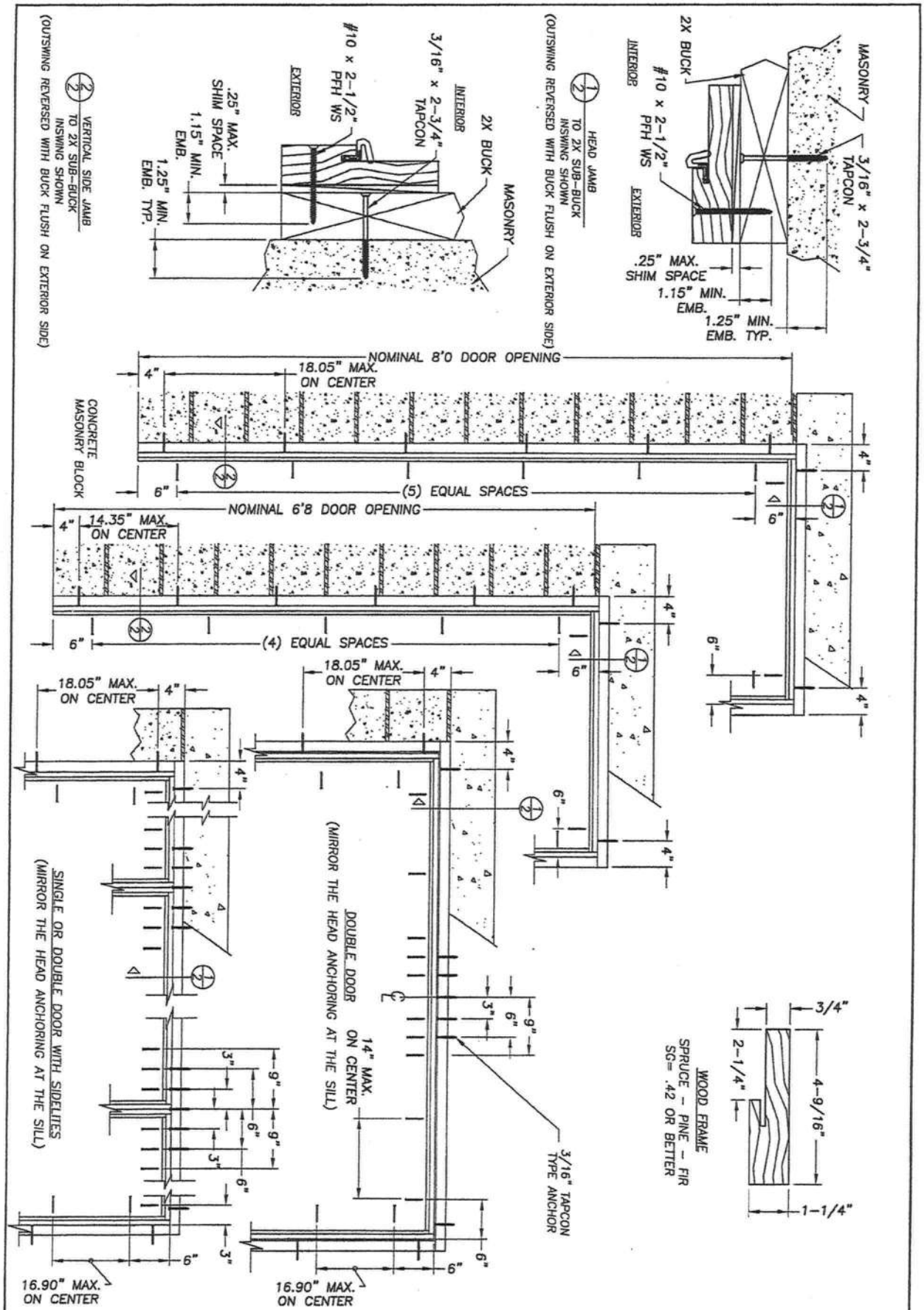
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY
REVISIONS		

DATE: 9/21/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: WWH
DRAWING NO.: FL–619
SHEET 1 OF 3

R:\PROJ 650 - 800\FB00\5262.2.3.85\FL-619-1.DWG

\\Rwbcsrv\rwbc\proj 650 - 800\pf800\5262.2.3.&5\FL-619-2.dwg



SHEET 2 OF 3	DRAWING NO: FL-619	CHK. BY: WWH	DWG. BY: EW	SCALE: N.T.S.

DATE: 9/21/05

NO.	DATE	BY

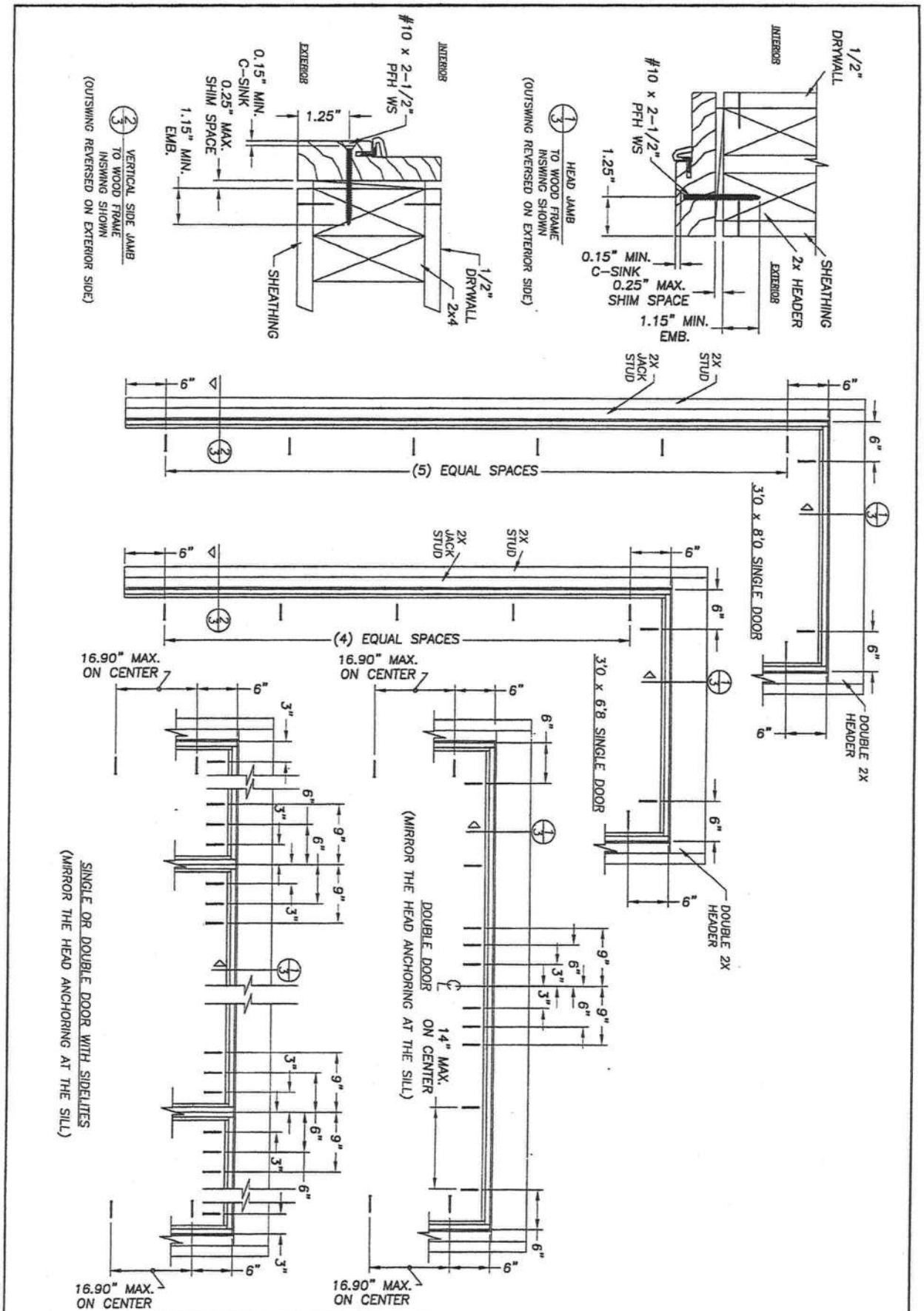
REVISIONS

PRODUCT:
THERMA-TRU INSWING / OUTSWING WOOD FRAME SYSTEM ANCHORING

PART OR ASSEMBLY:
ANCHOR CROSS SECTION MASONRY

Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Raney, P.E. No. 54158

9/23/05



SHEET 3 OF 3	DRAWING NO.: FL-619	CHK. BY: WWH	DWG. BY: EW	SCALE: N.T.S.	DATE: 9/21/05

NO.	DATE	BY
REVISIONS		

PRODUCT:
THERMA-TRU INSWING / OUTSWING WOOD FRAME SYSTEM ANCHORING

PART OR ASSEMBLY:
ANCHOR CROSS SECTION WOOD / STL.

Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Harley, P.E. No. 54158
9/23/05

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TYH8228Z0415143105

Truss Fabricator:	Anderson Truss Company
Job Identification:	9-232--Fill in later MIKE BYRD -- , **
Truss Count:	1
Model Code:	Florida Building Code 2007 and 2009 Supplement
Truss Criteria:	FBC2007Res/TPI-2002(STD)
Engineering Software:	Alpine Software,Version 9.02.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-05 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: A1101505-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	19914--DGE		10015003	01/15/10

Seal Date: 01/15/2010

-Truss Design Engineer-
Doug Fleming
Florida License Number: 66648
1950 Marley Drive
Haines City, FL 33844

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

(9-232--Fill in later MIKE BYRD -- , ** - DGE)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense::Stack Chord SC2 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS TO TRUSS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

GABLE END IS DESIGNED TO SUPPORT 8" MAX RAKE OVERHANG.

See DWGS A11015050109 & GBLLETIN0109 for more requirements.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

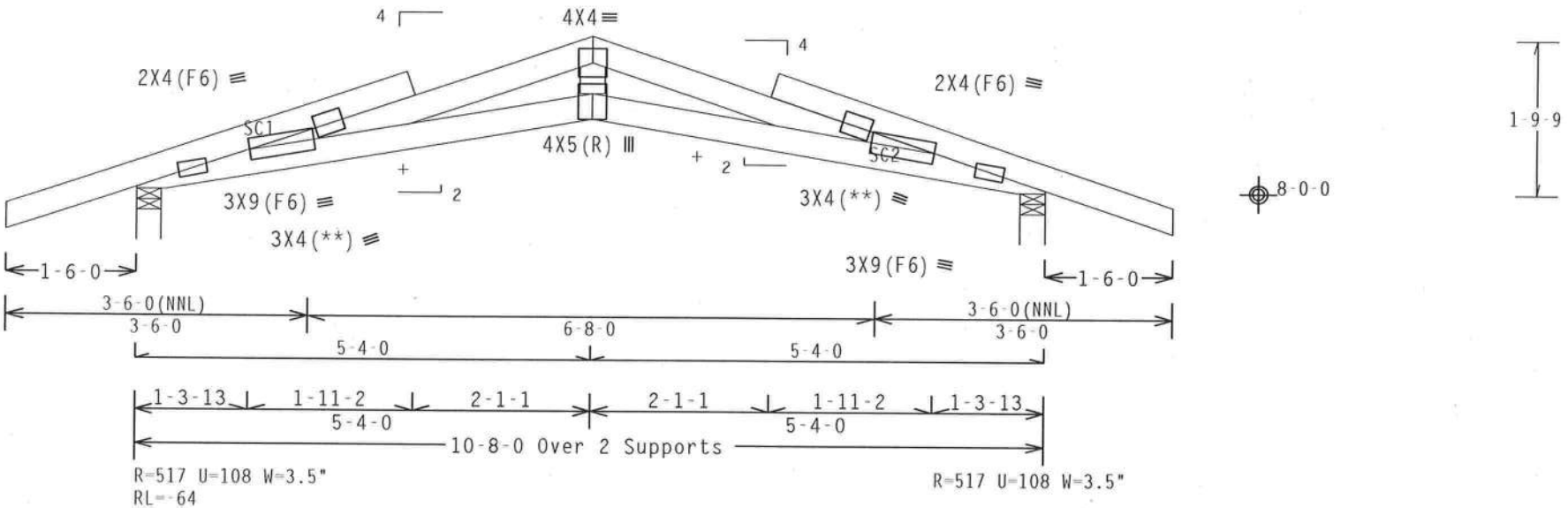
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF, FLOOR AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. DIAPHRAGMS AND SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.



Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave

FT/RT=10%(0%)/0(0) 9.02.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0279

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

[illegible] 15 '10

TC LL	20.0 PSF	REF R8228- 19914
TC DL	10.0 PSF	DATE 01/15/10
BC DL	10.0 PSF	DRW HCUSR8228 10015003
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	40.0 PSF	SEQN- 74806
DUR.FAC.	1.25	
SPACING	24.0"	

GABLE STUD REINFORCEMENT DETAIL

ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

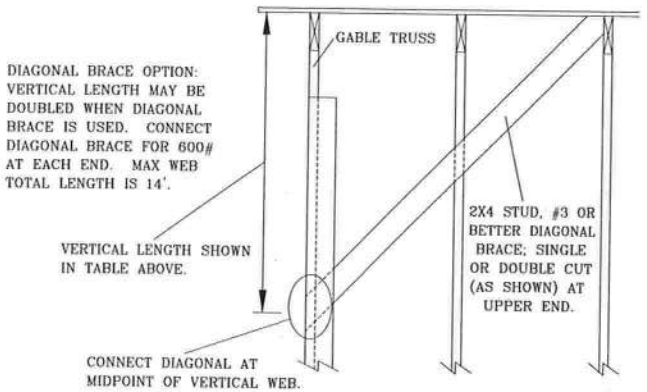
SOUTHERN PINE
#3
STUD
STANDARD

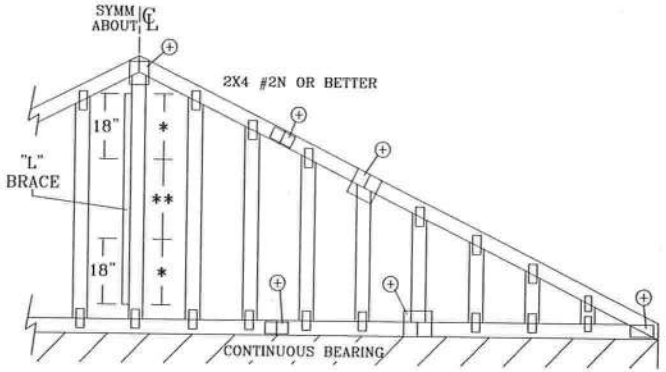
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS. (0.128"x3" min)

* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2.5X4
GREATER THAN 11' 6"	3X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ITW Building Components Group Inc.

Earth City, MO 63045

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 20/18/16GA (W,H/S/K) ASTM A653 grade 37/40/60 (K/W/H,S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANST/TPI 1 Sec. 2.
ITW-BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

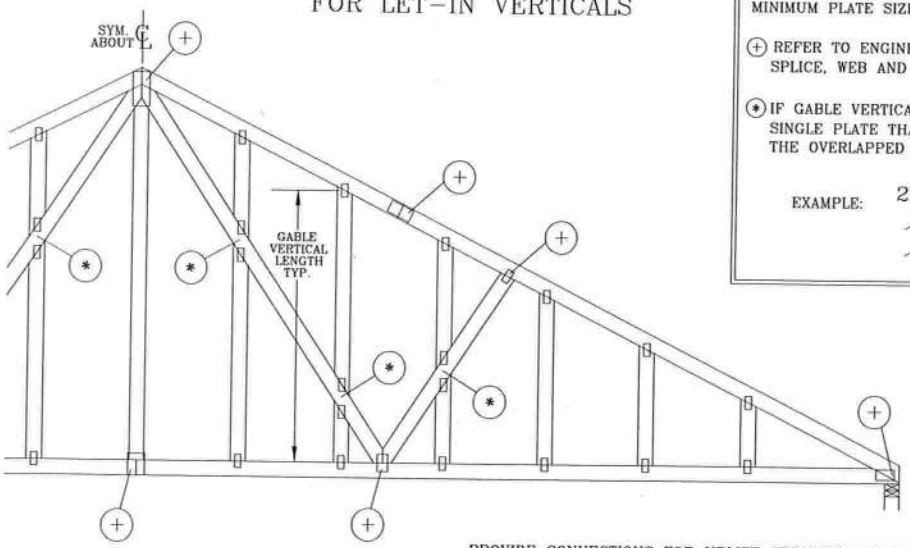
DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 15

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-05-GAB11015
DATE	1/1/09
DRWG	A11015050109

GABLE DETAIL
FOR LET–IN VERTICALS



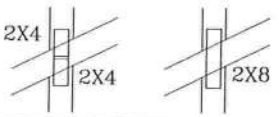
GABLE TRUSS PLATE SIZES

REFER TO APPROPRIATE ITW GABLE DETAIL FOR MINIMUM PLATE SIZES FOR VERTICAL STUDS.

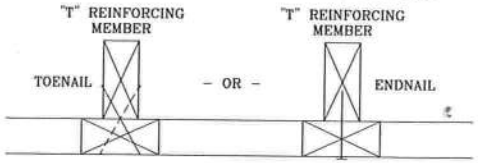
⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

⊛ IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE THAT COVERS THE TOTAL AREA OF THE OVERLAPPED PLATES TO SPAN THE WEB.

EXAMPLE:



"T" REINFORCEMENT ATTACHMENT DETAIL



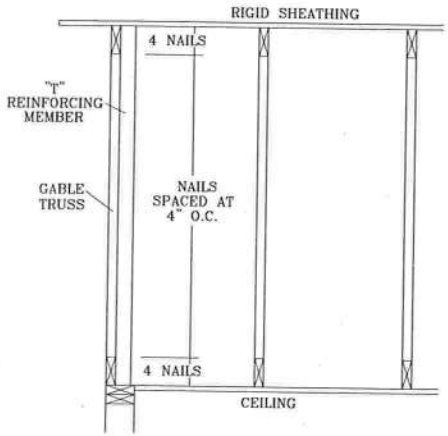
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" INCREASE BY LENGTH (BASED ON APPROPRIATE ITW GABLE DETAIL).

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	"T" INCREASE
140 MPH	2x4	10 %
15 FT	2x6	50 %
140 MPH	2x4	10 %
30 FT	2x6	50 %
130 MPH	2x4	10 %
15 FT	2x6	50 %
130 MPH	2x4	10 %
30 FT	2x6	50 %
120 MPH	2x4	10 %
15 FT	2x6	50 %
120 MPH	2x4	10 %
30 FT	2x6	40 %
110 MPH	2x4	10 %
15 FT	2x6	40 %
110 MPH	2x4	10 %
30 FT	2x6	50 %
100 MPH	2x4	20 %
15 FT	2x6	30 %
100 MPH	2x4	10 %
30 FT	2x6	40 %
90 MPH	2x4	20 %
15 FT	2x6	20 %
90 MPH	2x4	20 %
30 FT	2x6	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT, Kzt = 1.00
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
END DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) NAILS AT 4" O.C. PLUS
(4) NAILS IN TOP AND BOTTOM CHORD.

TOENAILED NAILS:
10d COMMON (0.148"x3",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ITW GABLE DETAIL FOR ASCE WIND LOAD.
ASCE 7–98 GABLE DETAIL DRAWINGS
A13015980109, A12015980109, A11015980109, A10015980109,
A13030980109, A12030980109, A11030980109, A10030980109
ASCE 7–02 GABLE DETAIL DRAWINGS
A13015020109, A12015020109, A11015020109, A10015020109, A14015020109,
A13030020109, A12030020109, A11030020109, A10030020109, A14030020109
ASCE 7–05 GABLE DETAIL DRAWINGS
A13015050109, A12015050109, A11015050109, A10015050109, A14015050109,
A13030050109, A12030050109, A11030050109, A10030050109, A14030050109

SEE APPROPRIATE ITW GABLE DETAIL FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

Building Components Group Inc.

Earth City, MO 63045

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 20/18/16GA (W,H/S/K) ASTM A653 grade 37/40/60 (K/W/H,S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANST/TPI 1 Sec. 2.
ITW–BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

MAX TOT. LD. 60 PSF
DUR. FAC. ANY
MAX SPACING 24.0"

REF LET–IN VERT
DATE 1/1/09
DRWG GBLLETIN0109

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TX98228Z0102135937

Truss Fabricator:	Anderson Truss Company
Job Identification:	9-232--Fill in later MIKE BYRD -- , **
Truss Count:	22
Model Code:	Florida Building Code 2007 and 2009 Supplement
Truss Criteria:	FBC2007Res/TPI-2002(STD)
Engineering Software:	Alpine Software,Version 9.02.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-05 -Closed

Notes:

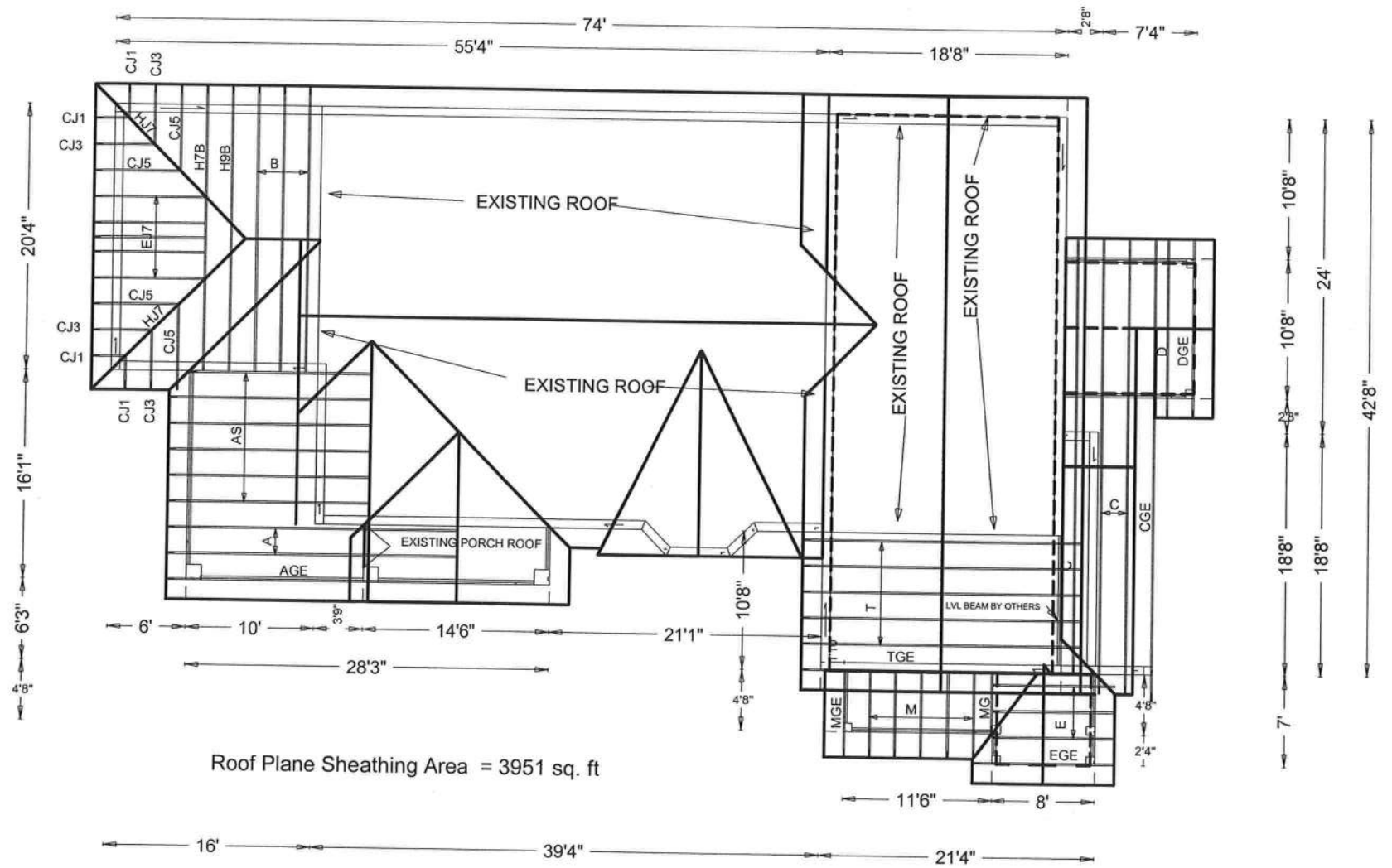
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: A1101505-GBLLETIN-

Seal Date: 12/02/2009

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	95048--A		09336005	12/02/09
2	95049--AGE		09336015	12/02/09
3	95050--AS		09336006	12/02/09
4	95051--H7B		09336016	12/02/09
5	95052--H9B		09336001	12/02/09
6	95053--B		09336002	12/02/09
7	95054--C		09336007	12/02/09
8	95055--CGE		09336017	12/02/09
9	95056--D		09336003	12/02/09
10	95057--DGE		09336008	12/02/09
11	95058--E		09336009	12/02/09
12	95059--EGE		09336018	12/02/09
13	95060--CJ5		09336010	12/02/09
14	95061--CJ3		09336011	12/02/09
15	95062--CJ1		09336012	12/02/09
16	95063--HJ7		09336019	12/02/09
17	95064--EJ7		09336013	12/02/09
18	95065--MG		09336020	12/02/09
19	95066--M		09336014	12/02/09
20	95067--MGE		09336021	12/02/09
21	95068--T		09336004	12/02/09
22	95069--TGE		09336022	12/02/09



Roof Plane Sheathing Area = 3951 sq. ft

MICHAEL BYRD/ ADDITION

JOB DESCRIPTION:: Fill in later
/: MIKE BYRD

JOB NO:
9-232

PAGE NO:
1 OF 1

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

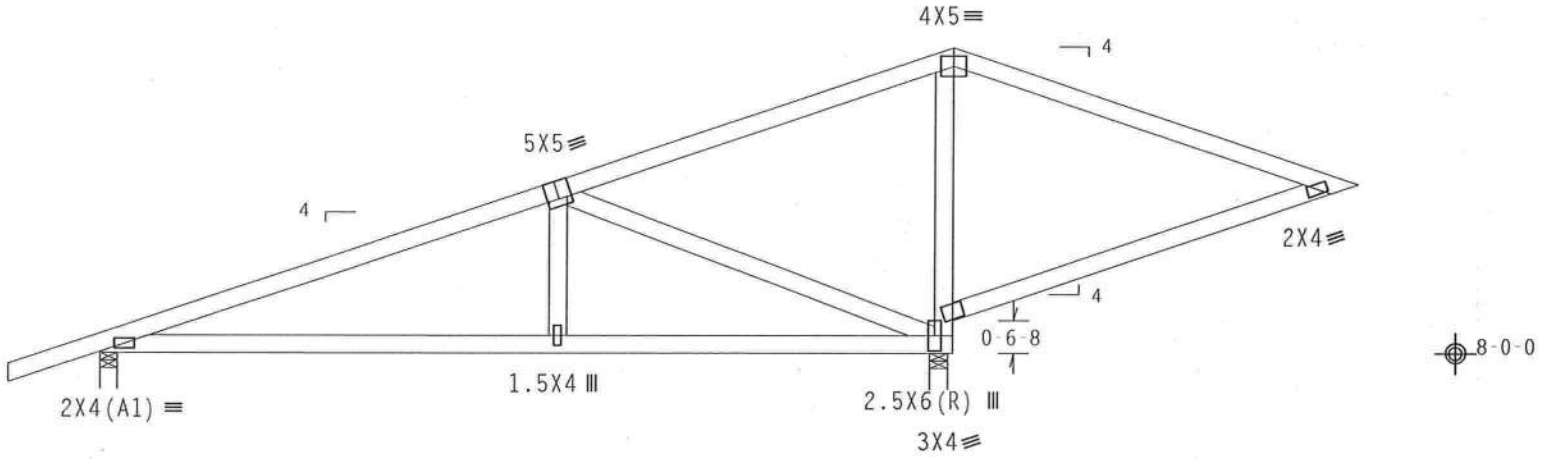
Bottom chord checked for 10.00 psf non-concurrent live load.

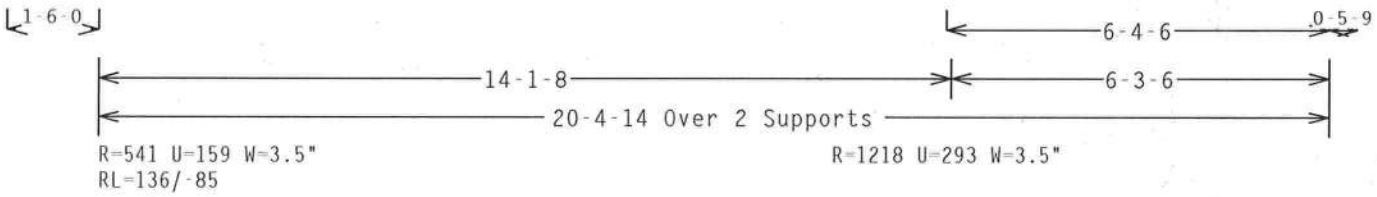
Shim all supports to solid bearing.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.





Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 9.02.00.06 QTY:2 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL [illegible] 0278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPII-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec [illegible]

TC LL	20.0 PSF	REF	R8228- 95048
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336005
BC LL	0.0 PSF		HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	61954
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:
:Stack Chord SC1 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

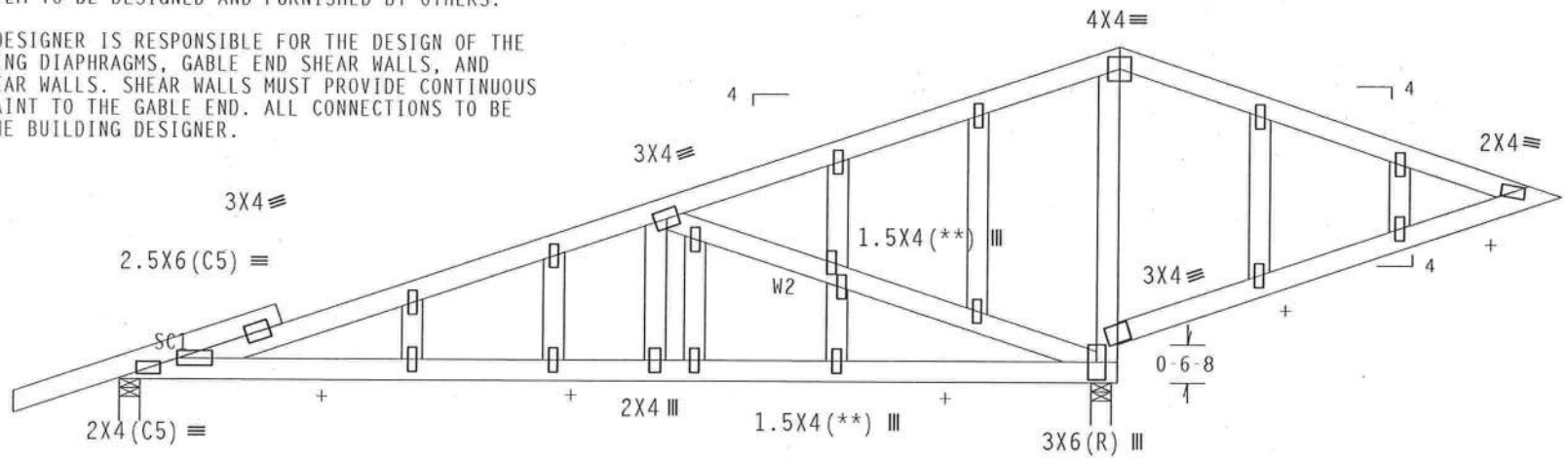
Wind reactions based on MWFRS pressures.

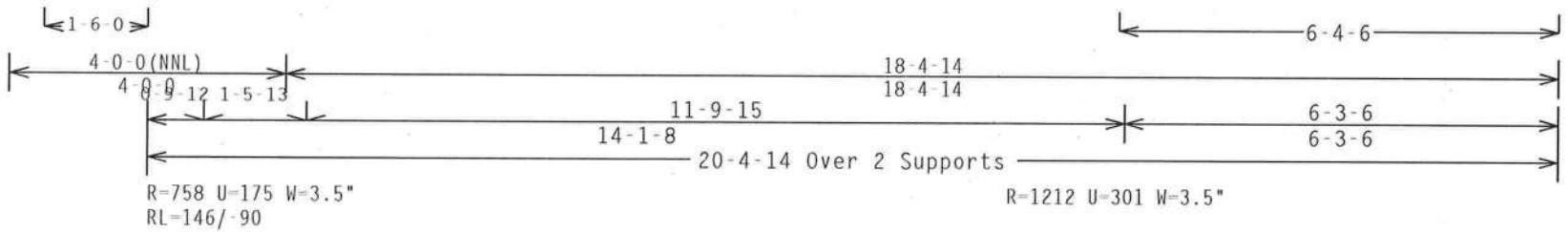
See DWGS A11015050109 & GBLLETIN0109 for more requirements.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

Shim all supports to solid bearing.





Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 9.02.00 Gable QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL [illegible]0278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec [illegible]

TC LL	20.0 PSF	REF	R8228- 95049
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336015
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	61969
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

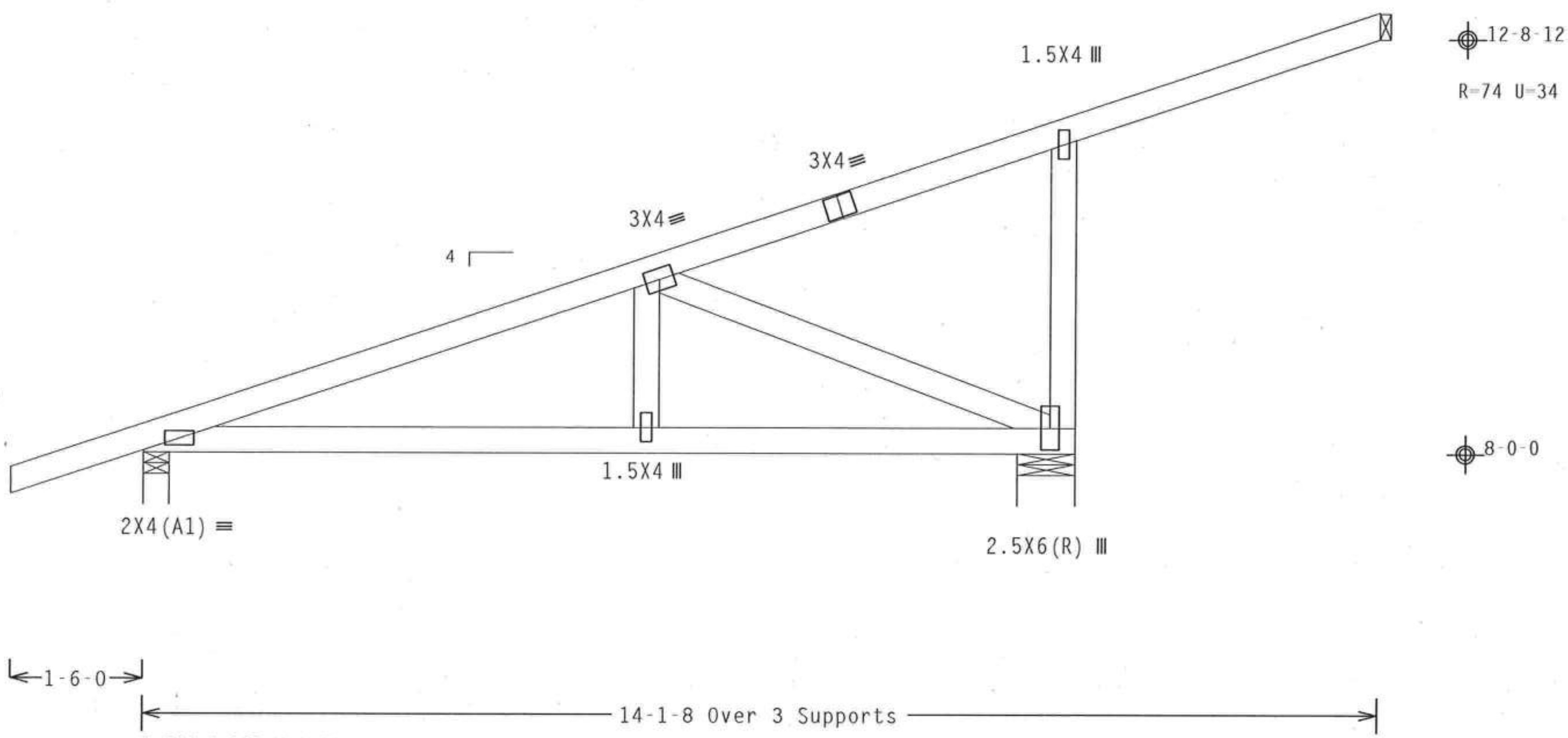
Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0) 9.02.00 ... QTY:6 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL ... 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02 '09

TC LL	20.0 PSF	REF R8228- 95050
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336006
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 61980
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

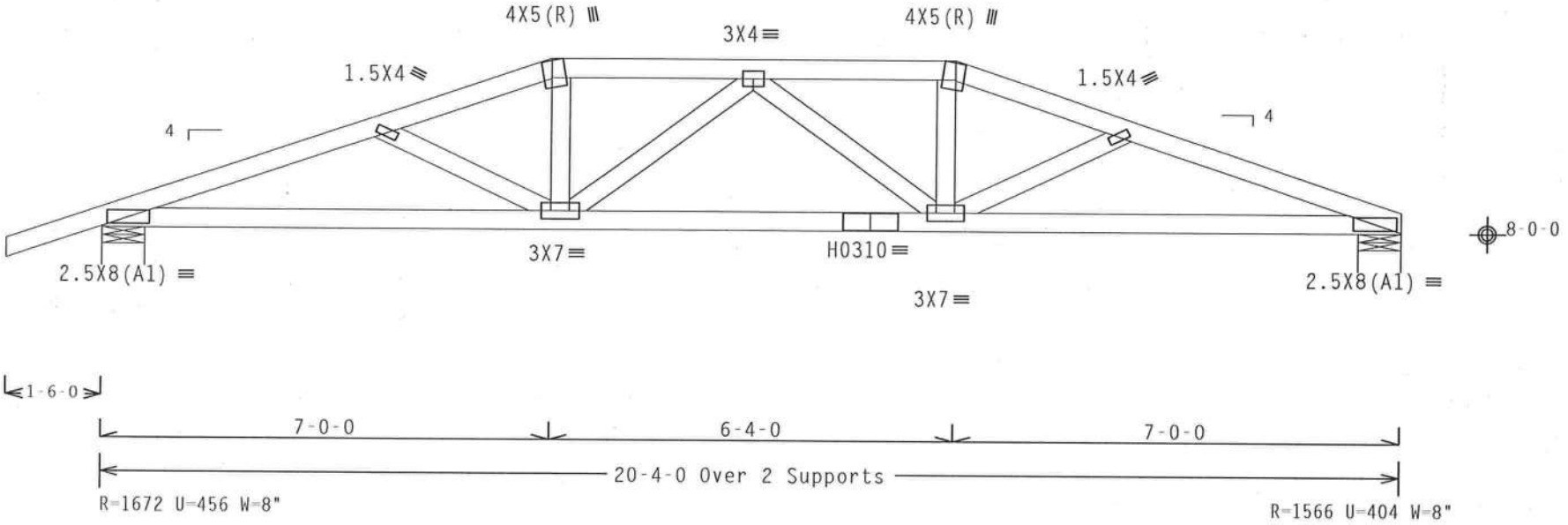
Deflection meets L/240 live and L/180 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

#1 hip supports 7-0-0 jacks with no webs.

Left side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang.



Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=10%(0%)/0(0) 9.02.00.067 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 02,2009

TC LL	20.0 PSF	REF R8228- 95051
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336016
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 62015
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

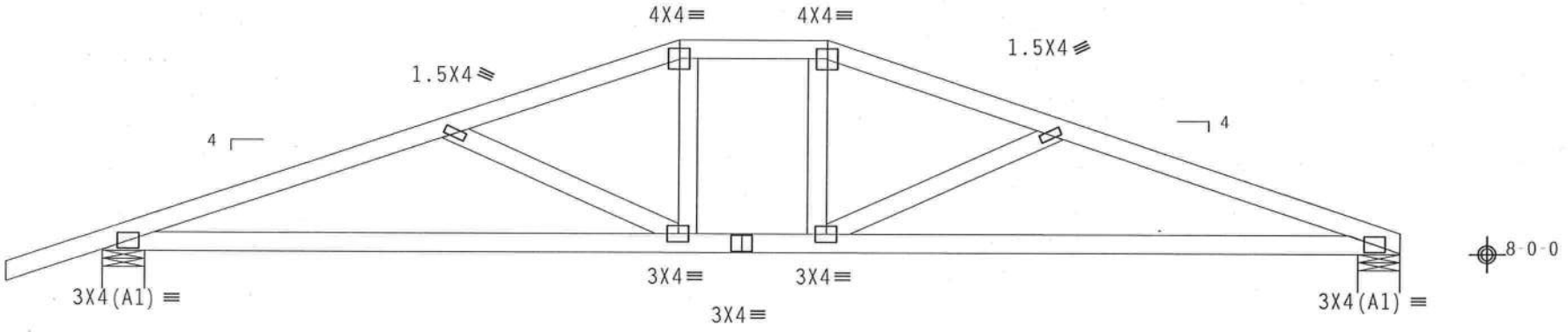
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

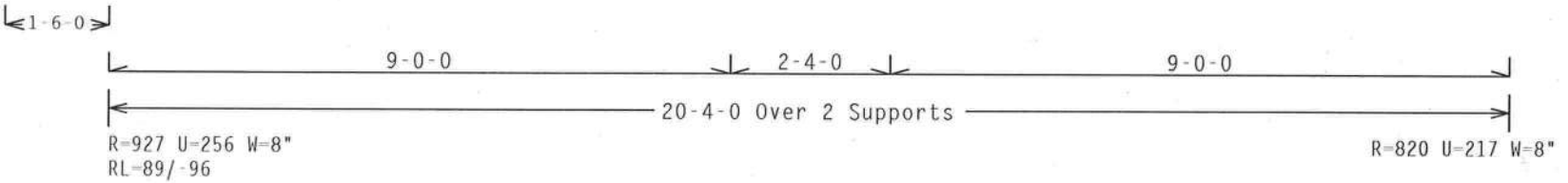
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.





Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 9.02.00.[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02 09

TC LL	20.0 PSF	REF	R8228- 95052
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336001
BC LL	0.0 PSF		HC-ENG JB/DLJ *
TOT.LD.	40.0 PSF	SEQN-	61990
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

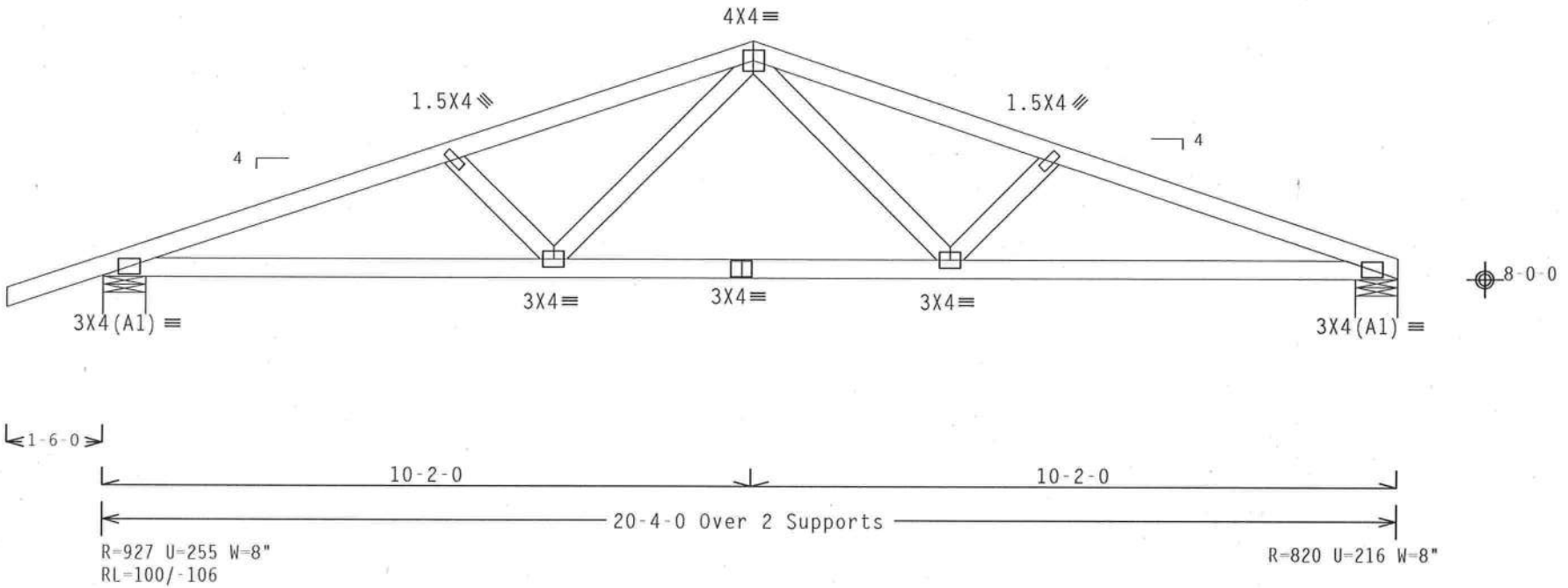
Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 9.02.00.06 QTY:3 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 02 09

TC LL	20.0 PSF	REF	R8228- 95053
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336002
BC LL	0.0 PSF		HC-ENG JB/DLJ *
TOT.LD.	40.0 PSF	SEQN-	61985
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

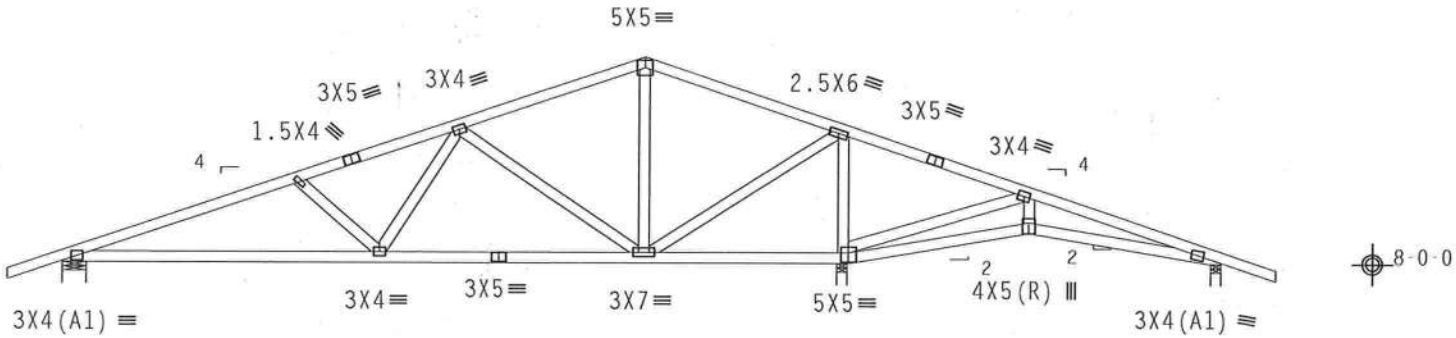
Bottom chord checked for 10.00 psf non-concurrent live load.

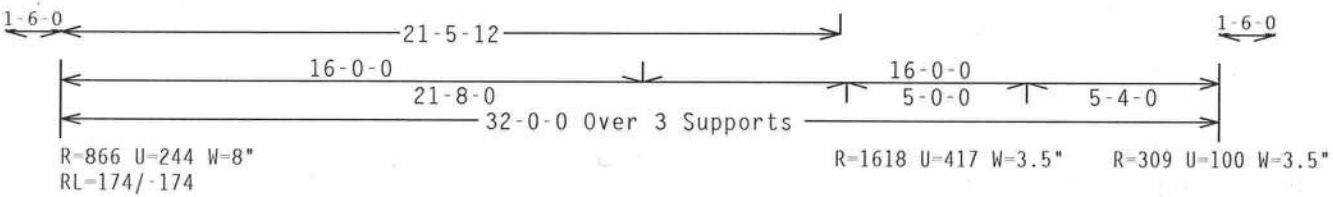
Shim all supports to solid bearing.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.





Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0) 9.02.00.60 QTY:3 FL/-/4/-/-/R/- Scale =.1875"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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JAMES F. QUINN, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02 09

TC LL	20.0 PSF	REF R8228- 95054
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336007
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 62173
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W3, W5 2x4 SP #2 Dense:
:Stack Chord SC1 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

(++) - This plate works for both joints covered.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

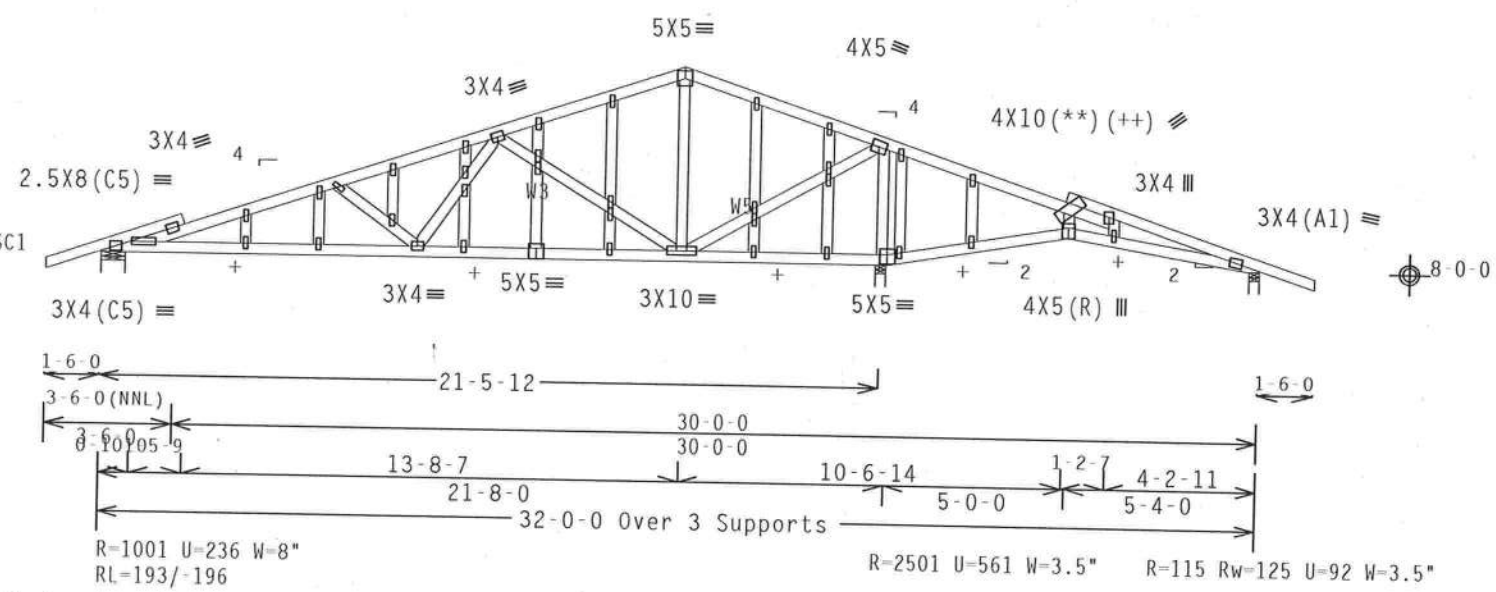
See DWGS A11015050109 & GBLLETIN0109 for more requirements.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

Shim all supports to solid bearing.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

9.02.00

QTY:1 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

JAMES F. COLLINS, JR.
LICENSE
No. 52212
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Dec 02 '09

TC LL	20.0 PSF	REF	R8228- 95055
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336017
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	62213
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

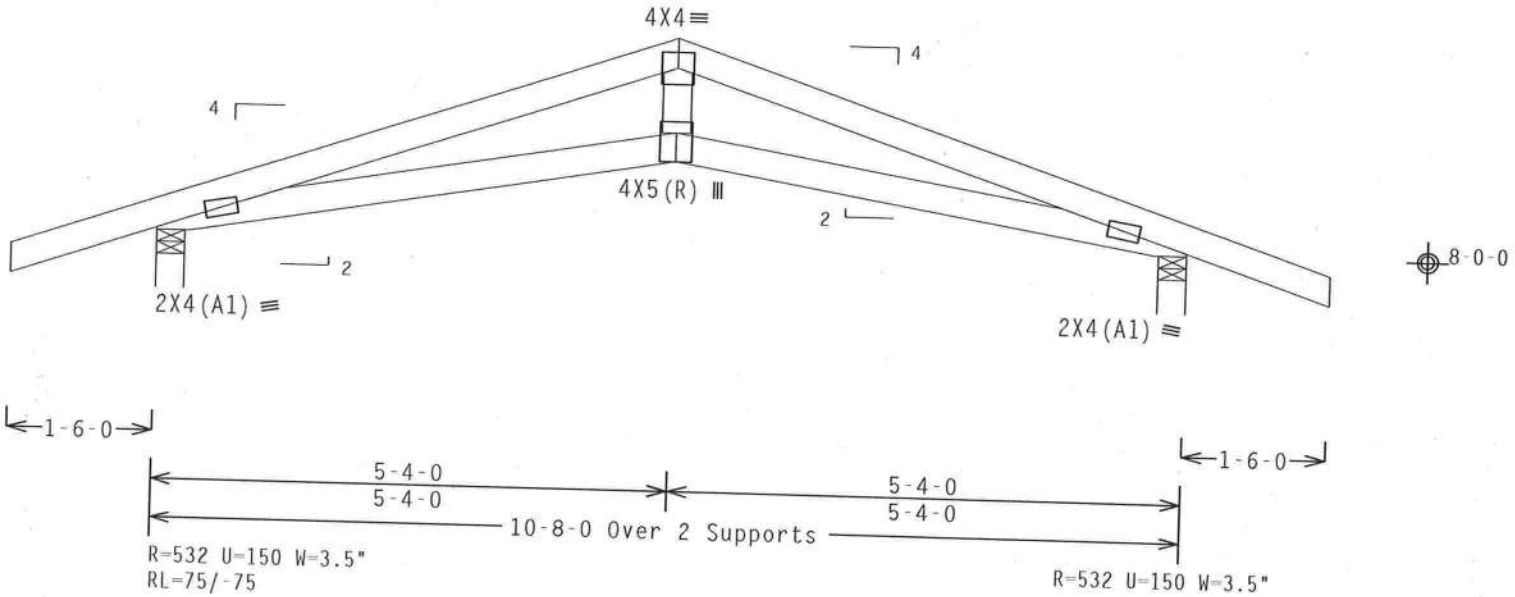
Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

9.02.00

QTY:1 FL/-/4/-/-/R/-

Scale =.5"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec

TC LL	20.0 PSF	REF	R8228- 95056
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336003
BC LL	0.0 PSF	HC-ENG	JB/DLJ *
TOT.LD.	40.0 PSF	SEQN-	62114
DUR.FAC.	1.25		
SPACING	24.0"		

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense::Stack Chord SC2 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

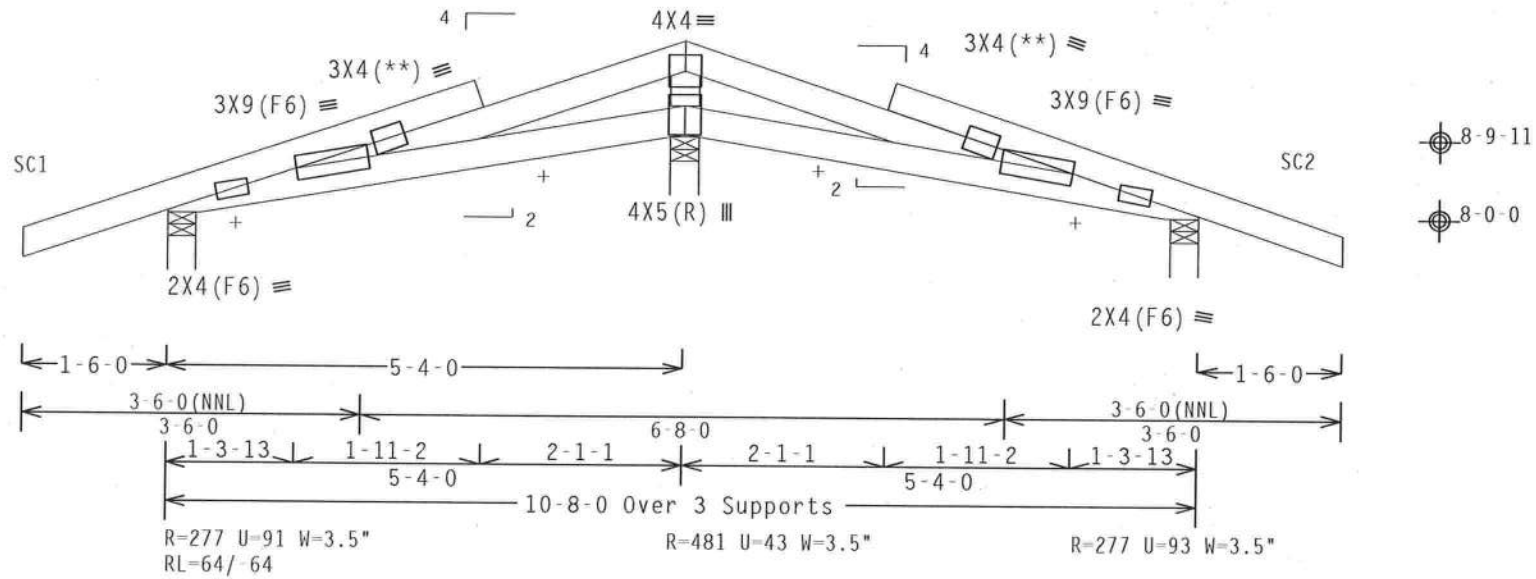
Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

Shim all supports to solid bearing.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

9.02.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec [illegible]

TC LL	20.0 PSF	REF	R8228- 95057
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336008
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	62159
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

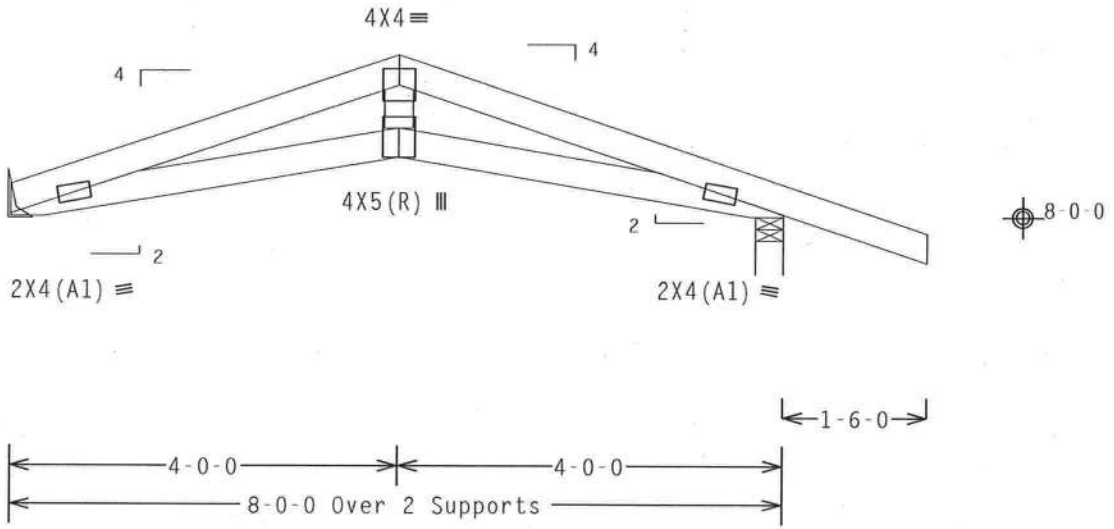
Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.



R=313 U=81
RL=52/-46

R=436 U=126 W=3.5"

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 9.02.00 QTY:3 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL [illegible] 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 02 [illegible]

TC LL	20.0 PSF	REF R8228- 95058
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336009
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 62052
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

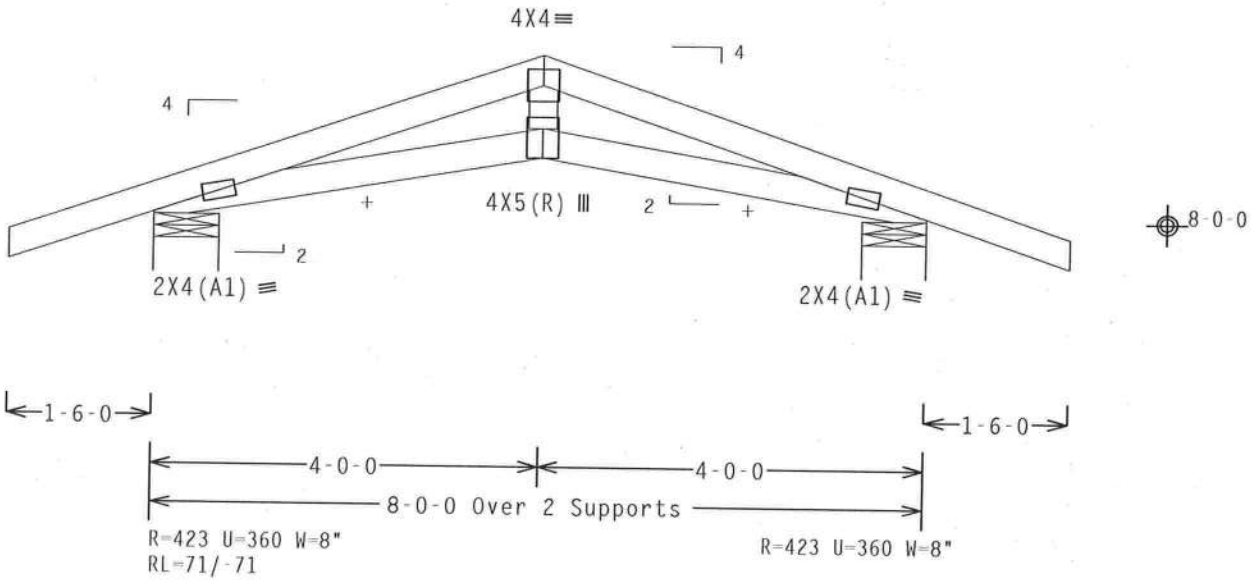
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

9.02.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL [illegible] 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES E. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02 [illegible]

TC LL	20.0 PSF	REF R8228- 95059
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336018
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 62240
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

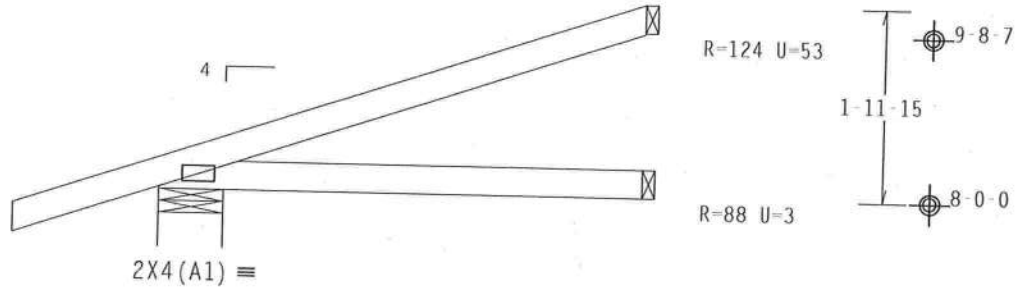
Bottom chord checked for 10.00 psf non-concurrent live load.

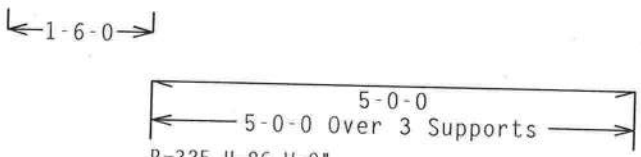
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.





PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

9.02.00

QTY:4

FL/-/4/-/-/R/-

Scale =.5"/Ft.

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ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL [illegible] 0278

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 02 09

TC LL	20.0 PSF	REF	R8228- 95060
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336010
BC LL	0.0 PSF		HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	61996
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228701

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

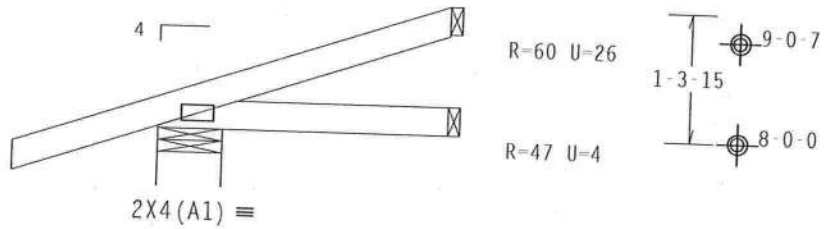
Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



1-6-0

3-0-0 over 3 Supports

R=257 U=82 W=8"
RL=51/-22

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

9.02.00.

QTY:4 FL/-/4/-/-/R/-

Scale =.5"/Ft.

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R8228- 95061
DATE	12/02/09
DRW	HCUSR8228 09336011
HC-ENG	JB/DLJ
SEQN-	61999

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL [illegible] 0278

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JAMES E. DOLLING, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 02,09

(... MIKE BYRD -- , ** - CJ1)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

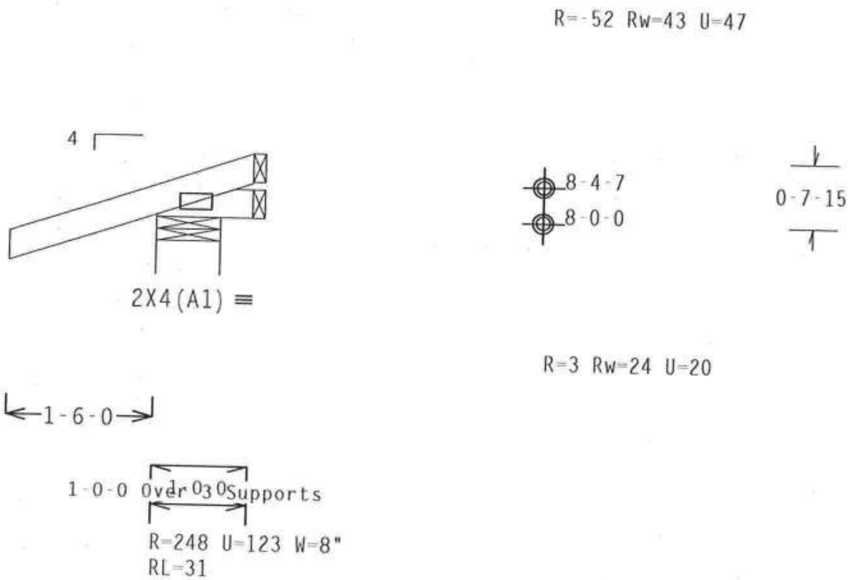
Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

9.02.00.061...

QTY:4 FL/-/4/-/-/R/-

Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec ...

TC LL	20.0 PSF	REF	R8228- 95062
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336012
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	62002
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

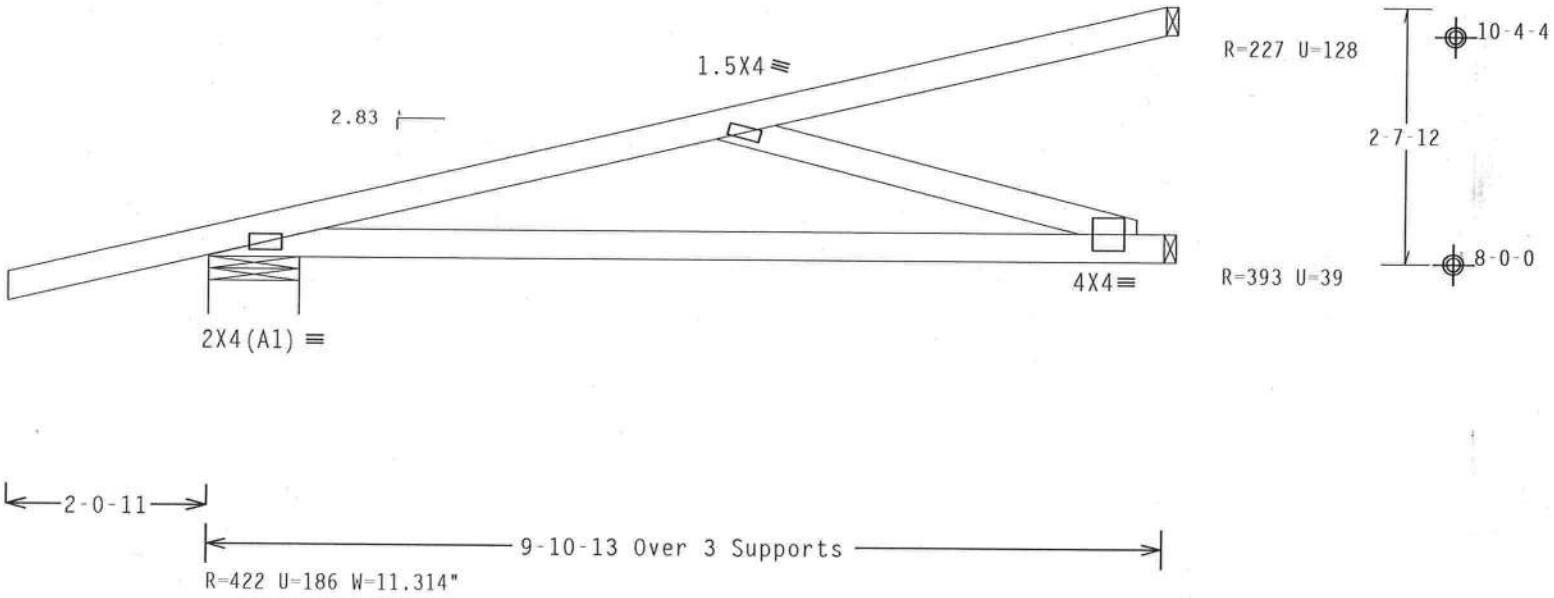
Hipjack supports 7-0-0 setback jacks with no webs.

Deflection meets L/240 live and L/180 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

9.02.00 Q1

QTY:2

FL/-/4/-/-/R/-

Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 02 09

TC LL	20.0 PSF	REF R8228- 95063
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336019
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 62007
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

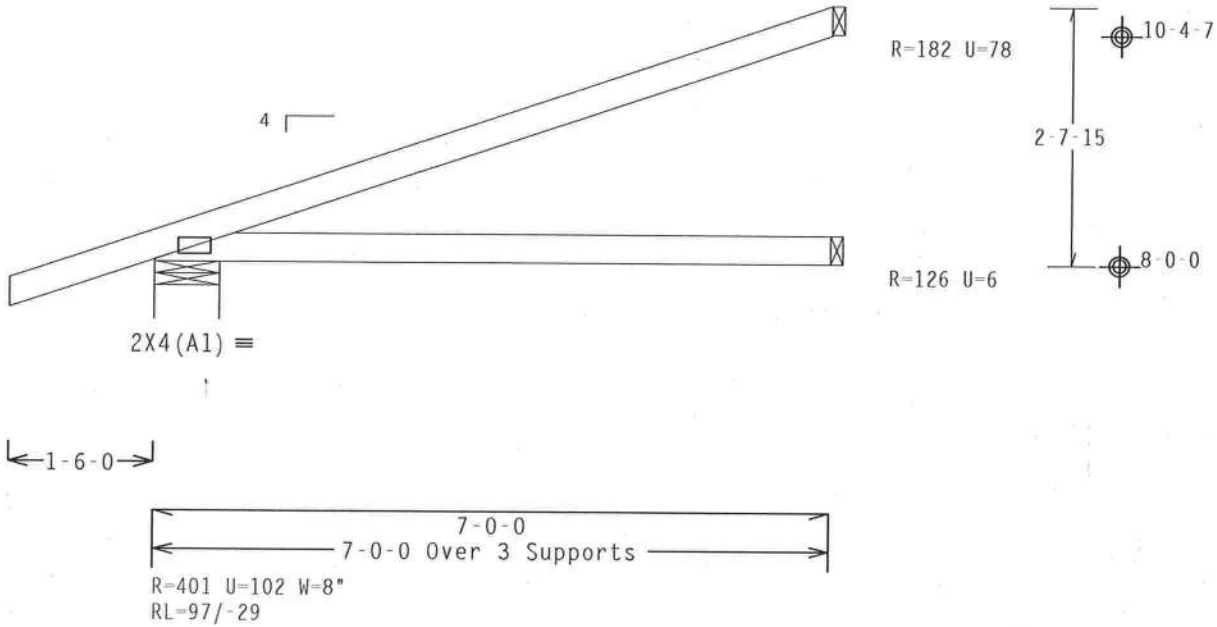
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0) 9.02.00.

PLT TYP. Wave QTY:5 FL/-/4/-/-/R/-

Scale =.5"/Ft.

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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02,09

TC LL	20.0 PSF	REF	R8228- 95064
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336013
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	61993
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

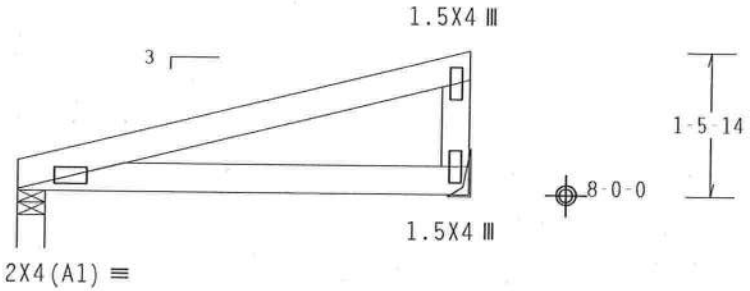
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Special loads
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC - From 61 plf at 0.00 to 61 plf at 4.67
BC - From 20 plf at 0.00 to 20 plf at 4.67
BC - 313 lb Conc. Load at 1.73 , 3.73

Deflection meets L/240 live and L/180 total load.

4-0-0



4-8-0 Over 2 Supports
R=463 U=123 W=3.5"

R=540 U=143 H=Simpson LUS24
w/ (2) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d, 0.148"x1.5" nails in Girder
Girder is (1)2X4 min. (H)

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0) 9.02.00.[illegible]

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

JAMES F. DOLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec [illegible]

TC LL	20.0 PSF	REF	R8228- 95065
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336020
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	62057
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

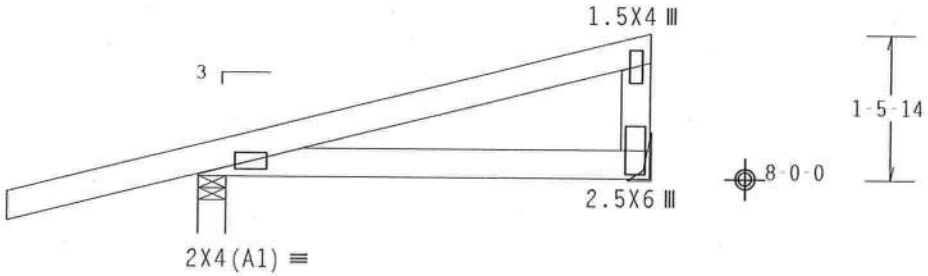
Roof overhang supports 2.00 psf soffit load.

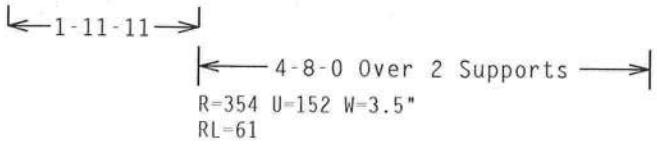
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.





R=354 U=152 W=3.5"
RL=61

R=150 U=43 H=Simpson LUS24
w/ (2) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d, 0.148"x1.5" nails in Girder
Girder is (1)2X4 min. (H)

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

9.02.00 0 10 16

QTY:5

FL/-/4/-/-/R/-

Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec

TC LL	20.0 PSF	REF R8228- 95066
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336014
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 62022
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

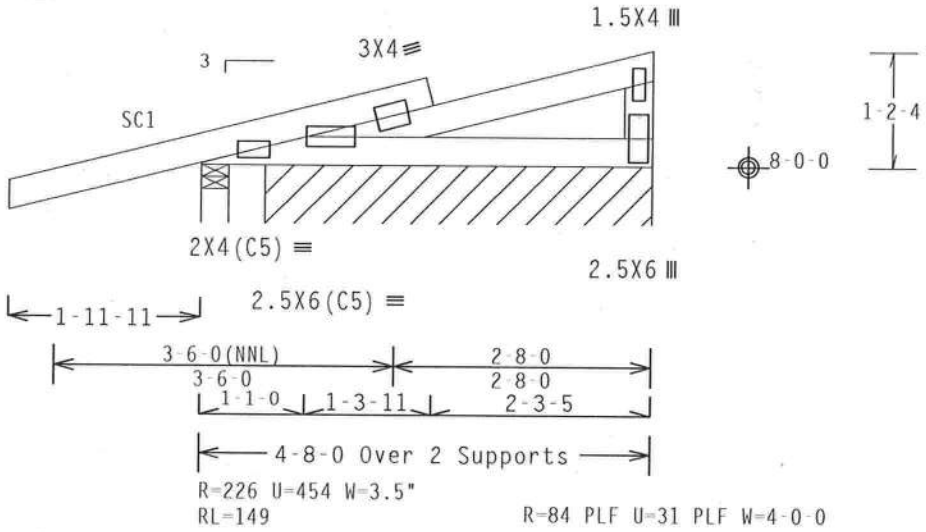
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.



Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 9.02.00.06 Qu QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec

TC LL	20.0 PSF	REF	R8228- 95067
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336021
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	62044
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

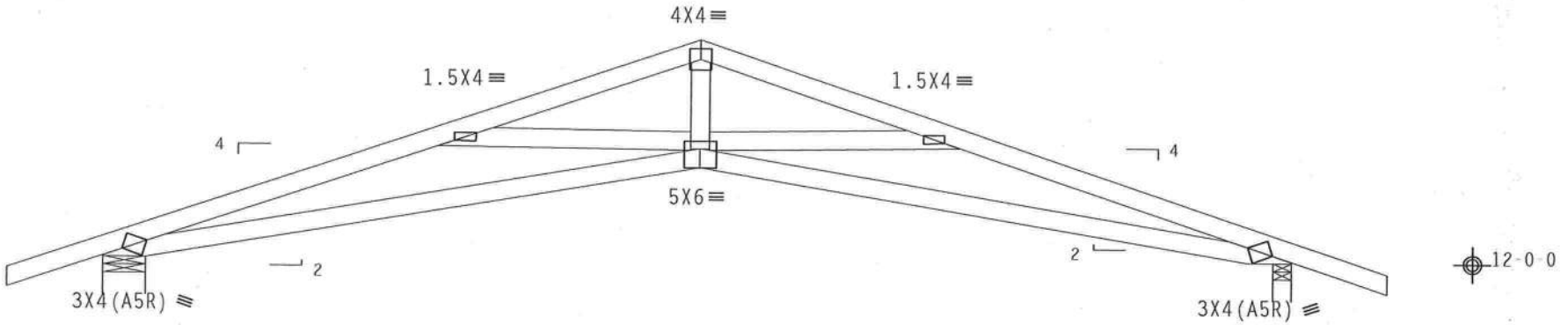
Roof overhang supports 2.00 psf soffit load.

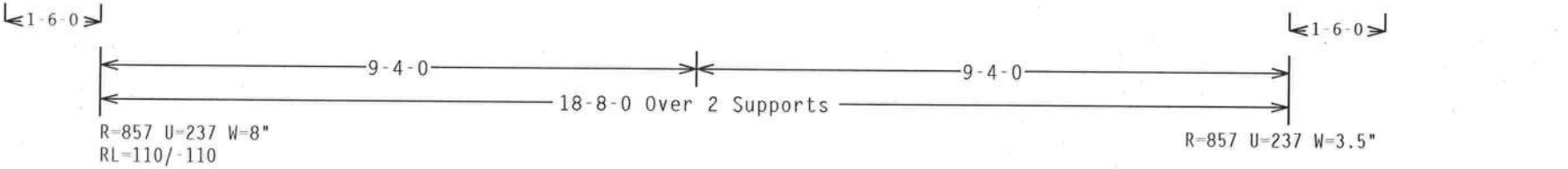
Bottom chord checked for 10.00 psf non-concurrent live load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.





Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 9.02.00 061 QTY:5 FL/-/4/-/-/R/- Scale =.375"/Ft.

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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02,2009

TC LL	20.0 PSF	REF R8228- 95068
TC DL	10.0 PSF	DATE 12/02/09
BC DL	10.0 PSF	DRW HCUSR8228 09336004
BC LL	0.0 PSF	HC-ENG JB/DLJ *
TOT.LD.	40.0 PSF	SEQN- 62064
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TX98228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense::Stack Chord SC2 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

Shim all supports to solid bearing.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

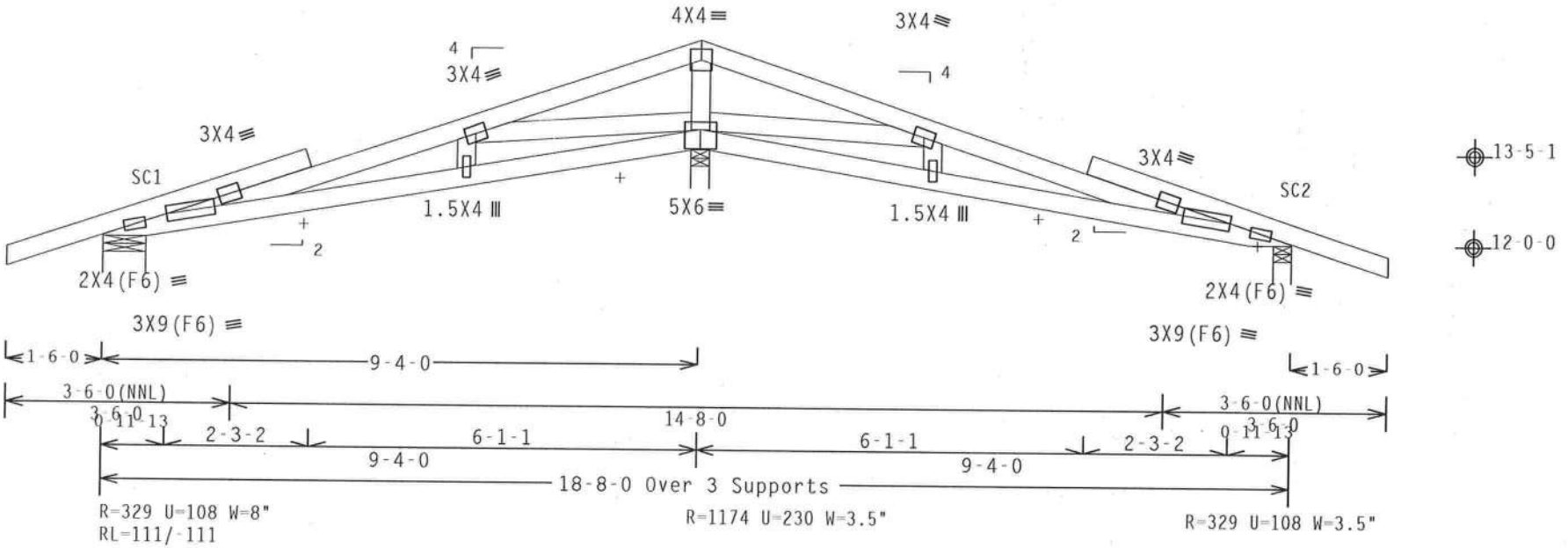
Wind reactions based on MWFRS pressures.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

9.02.00.061 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

JAMES E. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02,2009

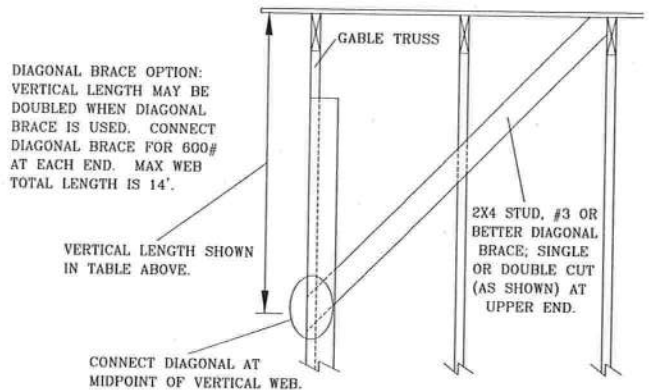
TC LL	20.0 PSF	REF	R8228- 95069
TC DL	10.0 PSF	DATE	12/02/09
BC DL	10.0 PSF	DRW	HCUSR8228 09336022
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	62111
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TX98228Z01

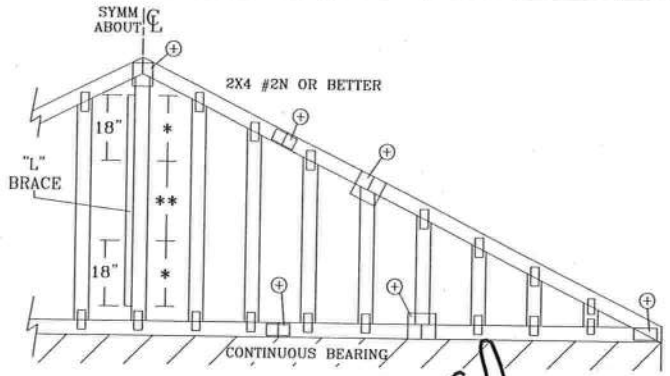
GABLE STUD REINFORCEMENT DETAIL

ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"





REFER TO CHART ABOVE FOR MAX. GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS. (0.128"x3" min)

* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2.5X4
GREATER THAN 11' 6"	3X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ITW Building Components Group Inc.

Earth City, MO 63045

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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
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ITW-BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

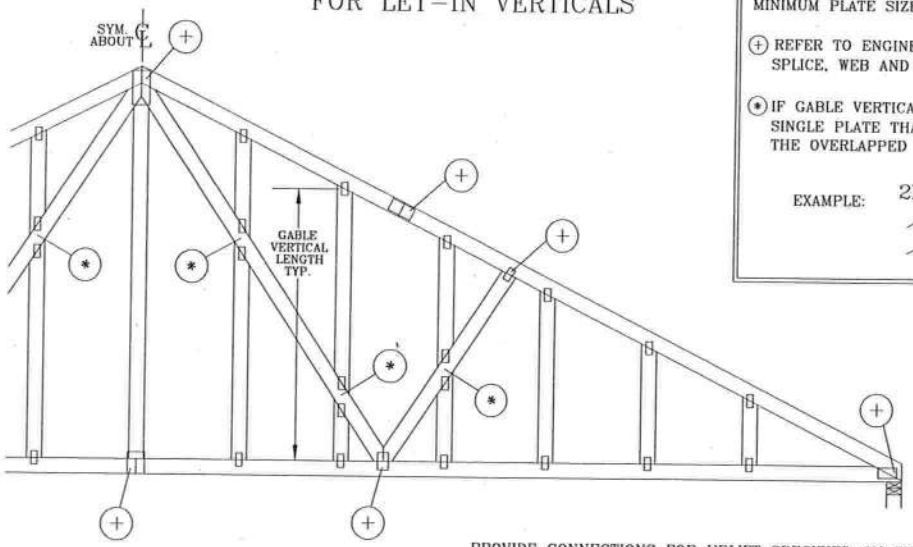
JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 02 '09

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-05-GAB11015
DATE	1/1/09
DRWG	A11015050109

GABLE DETAIL
FOR LET–IN VERTICALS



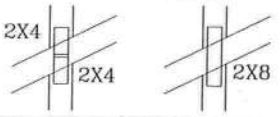
GABLE TRUSS PLATE SIZES

REFER TO APPROPRIATE ITW GABLE DETAIL FOR MINIMUM PLATE SIZES FOR VERTICAL STUDS.

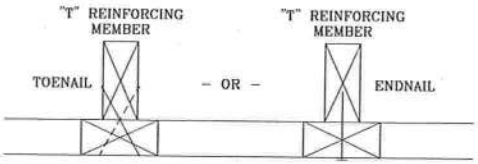
(+) REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

(•) IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE THAT COVERS THE TOTAL AREA OF THE OVERLAPPED PLATES TO SPAN THE WEB.

EXAMPLE:



"T" REINFORCEMENT ATTACHMENT DETAIL



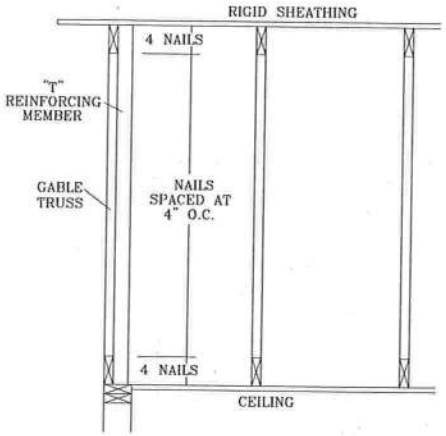
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" INCREASE BY LENGTH (BASED ON APPROPRIATE ITW GABLE DETAIL).

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	"T" INCREASE
140 MPH	2x4	10 %
15 FT	2x6	50 %
140 MPH	2x4	10 %
30 FT	2x6	50 %
130 MPH	2x4	10 %
15 FT	2x6	50 %
130 MPH	2x4	10 %
30 FT	2x6	50 %
120 MPH	2x4	10 %
15 FT	2x6	50 %
120 MPH	2x4	10 %
30 FT	2x6	40 %
110 MPH	2x4	10 %
15 FT	2x6	40 %
110 MPH	2x4	10 %
30 FT	2x6	50 %
100 MPH	2x4	20 %
15 FT	2x6	30 %
100 MPH	2x4	10 %
30 FT	2x6	40 %
90 MPH	2x4	20 %
15 FT	2x6	20 %
90 MPH	2x4	20 %
30 FT	2x6	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT, Kzt = 1.00
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
END DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) NAILS AT 4" O.C. PLUS
(4) NAILS IN TOP AND BOTTOM CHORD.
TOENAILED NAILS:
10d COMMON (0.148"x3",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ITW GABLE DETAIL FOR ASCE WIND LOAD.
ASCE 7–98 GABLE DETAIL DRAWINGS
A13015980109, A12015980109, A11015980109, A10015980109,
A13030980109, A12030980109, A11030980109, A10030980109
ASCE 7–02 GABLE DETAIL DRAWINGS
A13015020109, A12015020109, A11015020109, A10015020109, A14015020109,
A13030020109, A12030020109, A11030020109, A10030020109, A14030020109
ASCE 7–05 GABLE DETAIL DRAWINGS
A13015050109, A12015050109, A11015050109, A10015050109, A14015050109,
A13030050109, A12030050109, A11030050109, A10030050109, A14030050109

SEE APPROPRIATE ITW GABLE DETAIL FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

ITW
Building Components Group Inc.

Earth City, MO 63045

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ITW–BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 02 '09

MAX TOT. LD. 60 PSF
DUR. FAC. ANY
MAX SPACING 24.0"

REF	LET–IN VERT
DATE	1/1/09
DRWG	GBLLETIN0109