

DATE 11/10/2010

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000028994

APPLICANT KAY GRANGER PHONE 386-397-4514
ADDRESS 343 NW HORIZON STREET LAKE CITY FL 32055
OWNER KAY GRANGER PHONE 386-397-4514
ADDRESS 343 NW HORIZON STREET LAKE CITY FL 32055
CONTRACTOR OWNER BUILDER PHONE
LOCATION OF PROPERTY 90 W, R BROWN RD, L HORIZON ST, 4TH ON RIGHT

TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 180700.00
HEATED FLOOR AREA 1603.00 TOTAL AREA 3614.00 HEIGHT 22.00 STORIES 1
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
LAND USE & ZONING AG-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE A DEVELOPMENT PERMIT NO.

PARCEL ID 21-3S-16-02239-002 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 17.30

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 09-0561 BK TC N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ADDITION TO EXISTNG DWELLING
NOC ON FILE

Check # or Cash 631

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 \$ 905.00 CERTIFICATION FEE \$ 18.07 SURCHARGE FEE \$ 18.07
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 991.14
INSPECTORS OFFICE L. L. H. 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.

Owner has
to sign the
permit for
R Jones

Columbia County Building Permit Application

For Office Use Only	Application #	1010-40	Date Received	10/22/10	By	LH	Permit #	28994	
Zoning Official	B2K	Date	09.11.10	Flood Zone	A	Land Use	A-3	Zoning	A-3
FEMA Map #	N/A	Elevation	N/A	MFE	N/A	River	N/A	Plans Examiner	T.C.
Date	10-28-10								
Comments	Addition to existing dwelling								
<input checked="" type="checkbox"/> NOC	<input checked="" type="checkbox"/> EH	<input checked="" type="checkbox"/> Deed or PA	<input checked="" type="checkbox"/> Site Plan	<input checked="" type="checkbox"/> State Road Info	<input type="checkbox"/> Parent Parcel #				
<input checked="" type="checkbox"/> Dev Permit #		<input type="checkbox"/> In Floodway	<input checked="" type="checkbox"/> Letter of Auth. from Contractor	<input checked="" type="checkbox"/> W Comp. letter					
IMPACT FEES:	EMS	Fire	Corr	Road/Code					
School	= TOTAL		N/A addition to existing dwelling	UV form					

Septic Permit No. 09-0561 Fax 386-752-0297

Name Authorized Person Signing Permit Kay Granger Phone 386-397-4514

Address P.O. Box 2403 Lake City FL 32056

Owners Name Kay Granger Phone 386-397-4514

911 Address 343 Horizon St Lake City FL 32055

Contractors Name Kay Granger Phone 386-397-4514

Address P.O. Box 2403 Lake City FL 32056

Fee Simple Owner Name & Address n/a

Bonding Co. Name & Address n/a

Architect/Engineer Name & Address

Mortgage Lenders Name & Address n/a

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

Property ID Number 21-35-16-02239-002 Estimated Cost of Construction \$200,000.00

Subdivision Name Meets & Bounds Lot Block Unit Phase

Driving Directions 90 West turn right on Brown Rd Turn Left on Horizon St, 4th on Right

Number of Existing Dwellings on Property 1

Construction of Addition to SFD Total Acreage 17.3 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 22'

Actual Distance of Structure from Property Lines - Front 500' Side 350' Side 250' Rear 600'

Number of Stories 1 Heated Floor Area 1603 Total Floor Area 3614 Roof Pitch 6:12

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.

Spoke to Kayan
11-10-10 LH

Call Dan 397-3146 with any
Questions - for All.

Columbia County Building Permit Application

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 COMMENCEMENT 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.)


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 Signature (Permitee)

Contractor's License Number _____
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:

Notary of Florida Notary Signature (For the Contractor)

2010-11-08 10:09

REGISTERS CUSTOM 3867520297 >>

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1010-40 CONTRACTOR KAY GRANGER PHONE 397-4514

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 _____ License #: _____	Signature _____ Phone #: _____
MECHANICAL/ A/C <u>1052</u> ✓	Print Name <u>Registers Heating & Air</u> License #: <u>CAC041267</u>	Signature <u>Richard C. Registers</u> Phone #: <u>(904) 384-2862</u>
PLUMBING/ GAS	Print Name <u>C. L. Buck Boyette Plus</u> License #: <u>CFC021540</u>	Signature <u>C. L. Buck Boyette</u> Phone #: <u>752-8176</u>
ROOFING ✓	Print Name <u>GARY JOHNSON</u> License #: <u>RC0026693</u>	Signature <u>Gary Johnson</u> Phone #: <u>961-3031</u>
SHEET METAL	Print Name _____ License #: <u>N/A</u>	Signature _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name _____ License #: <u>N/A</u>	Signature _____ Phone #: _____
SOLAR	Print Name _____ License #: <u>N/A</u>	Signature _____ Phone #: _____

Specialty License	Print Name	Signature	Phone Number
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			

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.

Contractor Form. Subcontractor form: 6/09

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1010 40 CONTRACTOR KAY GRANIER PHONE 386-4514
 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 ✓ 765	Print Name <u>David Wood</u> License #: <u>EC-13002213</u> Signature <u>[Signature]</u> Phone #: <u>386 364-5246</u>
MECHANICAL/ A/C	Print Name _____ License #: _____ Signature _____ Phone #: _____
PLUMBING/ GAS 736✓	Print Name <u>C. L. Buck Boyette Plbg</u> License #: <u>CF Co 21540</u> Signature <u>[Signature]</u> Phone #: <u>752-8776</u>
ROOFING	Print Name _____ License #: _____ Signature _____ Phone #: _____
SHEET METAL	Print Name _____ License #: <u>N-A</u> Signature _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name _____ License #: <u>NA</u> Signature _____ Phone #: _____
SOLAR	Print Name _____ License #: <u>NA</u> Signature _____ Phone #: _____

Specialty License	License Number	Sub Contractor: Printed Name	Sub Contractor: 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			

Home owner Builder

Signature on Application

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.



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 within 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:

343 Horizon St Lake City, Fl 32055

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 or 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 Kay A Granger, 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.

 Date 10/11/10
Owner Builder Signature

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification FDL

Notary Signature  Date 10/11/10



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 _____

Inst. 201012016331 Date: 10/11/2010 Time: 3:47 PM
DC, P. DeWitt Cason, Columbia County Page 1 of 1 B: 1202 P: 2203

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 21-35-16-02239-002

I/HE 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.

1. Description of property (legal description):

a) Street (job) Address: 343 Hemzys St Lake City FL 32055

2. General description of improvements:

Addition

3. Owner Information

a) Name and address: Kay A Granger

b) Name and address of fee simple titleholder (if other than owner) P.O. Box 2403 Lake City FL 32056

c) Interest in property

4. Contractor Information

a) Name and address: Owner/Builder

b) Telephone No.: _____ Fax No. (Opt.) _____

5. Surety Information

a) Name and address: n/a

b) Amount of Bond: _____

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(1)(b), Florida Statutes:

a) Name and address: n/a

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. Kay A Granger
Signature of Owner or Owner's Authorized Office/Directory/Partner/Manager

Kay A Granger
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 11 day of October, 20 10, by:

Kay Granger as Owner (type of authority, e.g. officer, trustee, attorney fact) for Kay Granger (name of party on behalf of whom instrument was executed).

Personally Known _____ OR Produced Identification _____ Type ADL

Notary Signature L. Hodson Notary Stamp or Seal:



--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.

Kay A Granger
Signature of Notary Person Signing (in line #10 above)

Columbia County Property Appraiser

DB Last Updated: 10/14/2010

2009 Tax Roll Year

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

Interactive GIS Map

Print

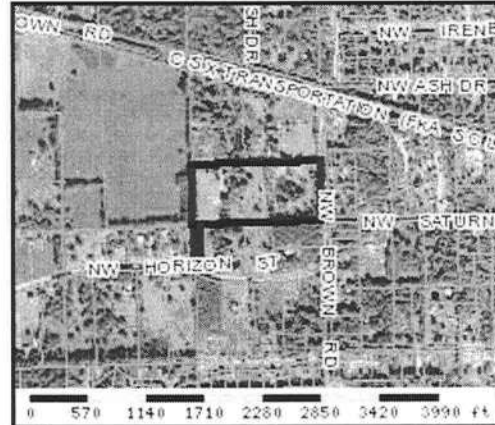
Parcel: 21-3S-16-02239-002

<< Next Lower Parcel Next Higher Parcel >>

<< Prev Search Result: 6 of 6

Owner & Property Info

Owner's Name	GRANGER KAY A		
Mailing Address	P O BOX 2403 LAKE CITY, FL 32056-2403		
Site Address	343 NW HORIZON ST		
Use Desc. (code)	IMPROVED A (005000)		
Tax District	2 (County)	Neighborhood	21316
Land Area	17.300 ACRES	Market Area	01
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
THE S 610.52 FT OF SE1/4 OF SW1/4 & BEG AT NW COR OF NE1/4 OF NW1/4 OF SEC 28-3S-16E, RUN E 60 FT, S 405.73 FTNW 72.16 FT, N 364.99 FT TO POB ORB 1036-473, PROB 1134-2651			



Property & Assessment Values

2009 Certified Values		
Mkt Land Value	cnt: (1)	\$7,397.00
Ag Land Value	cnt: (2)	\$3,154.00
Building Value	cnt: (1)	\$112,922.00
XFOB Value	cnt: (3)	\$6,940.00
Total Appraised Value		\$130,413.00
Just Value		\$243,755.00
Class Value		\$130,413.00
Assessed Value		\$93,043.00
Exempt Value	(code: HX)	\$50,000.00
Total Taxable Value	Cnty: \$43,043 Other: \$43,043 Schl: \$68,043	

2010 Working Values

NOTE:

2010 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

[Show Working Values](#)

Sales History

[Show Similar Sales within 1/2 mile](#)

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
NONE						

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1985	ABOVE AVG. (10)	2464	3352	\$109,132.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0060	CARPORT F	2008	\$1,400.00	0000280.000	14 x 20 x 0	(000.00)
0040	BARN,POLE	2008	\$3,240.00	0001296.000	36 x 36 x 0	(000.00)
0180	FPLC 1STRY	2008	\$2,000.00	0000001.000	0 x 0 x 0	(000.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	1 AC	1.00/1.00/1.00/1.00	\$6,648.48	\$6,648.00
006200	PASTURE 3 (AG)	15.77 AC	1.00/1.00/1.00/1.00	\$200.00	\$3,154.00
009910	MKT.VAL.AG (MKT)	15.77 AC	1.00/1.00/1.00/1.00	\$0.00	\$104,846.00
009400	RIGHTOFWAY (MKT)	1 UT - (0000000.530AC)	1.00/1.00/1.00/1.00	\$10.00	\$10.00

Columbia County Property Appraiser

DB Last Updated: 10/14/2010

<< Prev

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DISCLAIMER

This information was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Site Plan



Columbia County Property Appraiser

J. Doyle Crews - Lake City, Florida 32055 | 386-758-1083

PARCEL: 21-3S-16-02239-002 - IMPROVED A (005000)

THE S 610.52 FT OF SE1/4 OF SW1/4 & BEG AT NW COR OF NE1/4 OF NW1/4 OF SEC 28-3S-16E, RUN E 60 FT, S 405.73 FTNW 72.16 FT, N 364.99 FT TO POB ORB 1036

NOTES:

Name:	GRANGER KAY A	2009 Certified Values	
Site:	343 NW HORIZON ST	Land	\$7,397.00
Mail:	P O BOX 2403	Bldg	\$112,922.00
	LAKE CITY, FL 32056-2403	Assd	\$93,043.00
Sales Info	NONE	Exmpt	\$50,000.00
		Taxbl	Cnty: \$43,043
			Other: \$43,043 Schl: \$68,043



STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT #
DATE PAID
FEE PAID \$
RECEIPT #
CR #

07-0561,
941925
11/9/89
36.80
002600
09-4731

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Temporary/Experimental System
☐ Repair ☐ Abandonment ☐ Other (Specify) _____

APPLICANT: KAY GRANGER

TELEPHONE: 397-3146

AGENT: PAUL LLOYD

MAILING ADDRESS: P.O. BOX 2403

CITY: LAKE CITY

STATE: FL ZIP: 32056

=====

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

=====

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: _____ BLOCK: _____ SUBDIVISION: MEETS & BOUNDS DATESUBD: _____

PROPERTY ID #: 21-3S-16-02239-002 [Section/Township/Range/Parcel] ZONING: AG

PROPERTY SIZE: 17.3 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: ☒ PRIVATE ☐ PUBLIC

PROPERTY STREET ADDRESS: HORIZON DRIVE

DIRECTIONS TO PROPERTY: 90 WEST TURN RIGHT ON BROWN RD. TURN LEFT ON HORIZON DRIVE, 4TH ON RIGHT.

BUILDING INFORMATION

☒ RESIDENTIAL

☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	# Persons Served	Business Activity For Commercial Only
1	<u>HOUSE</u>	<u>1</u>	<u>2448</u>	<u>2</u>	
2	<u>Held for flow letter.</u>		<u>received</u>		
3			<u>12-11-09.</u>		
4					

☐ Garbage Grinders/Disposals

☐ Spas/Hot Tubs

☐ Floor/Equipment Drains

☐ Ultra-low Volume Flush Toilets

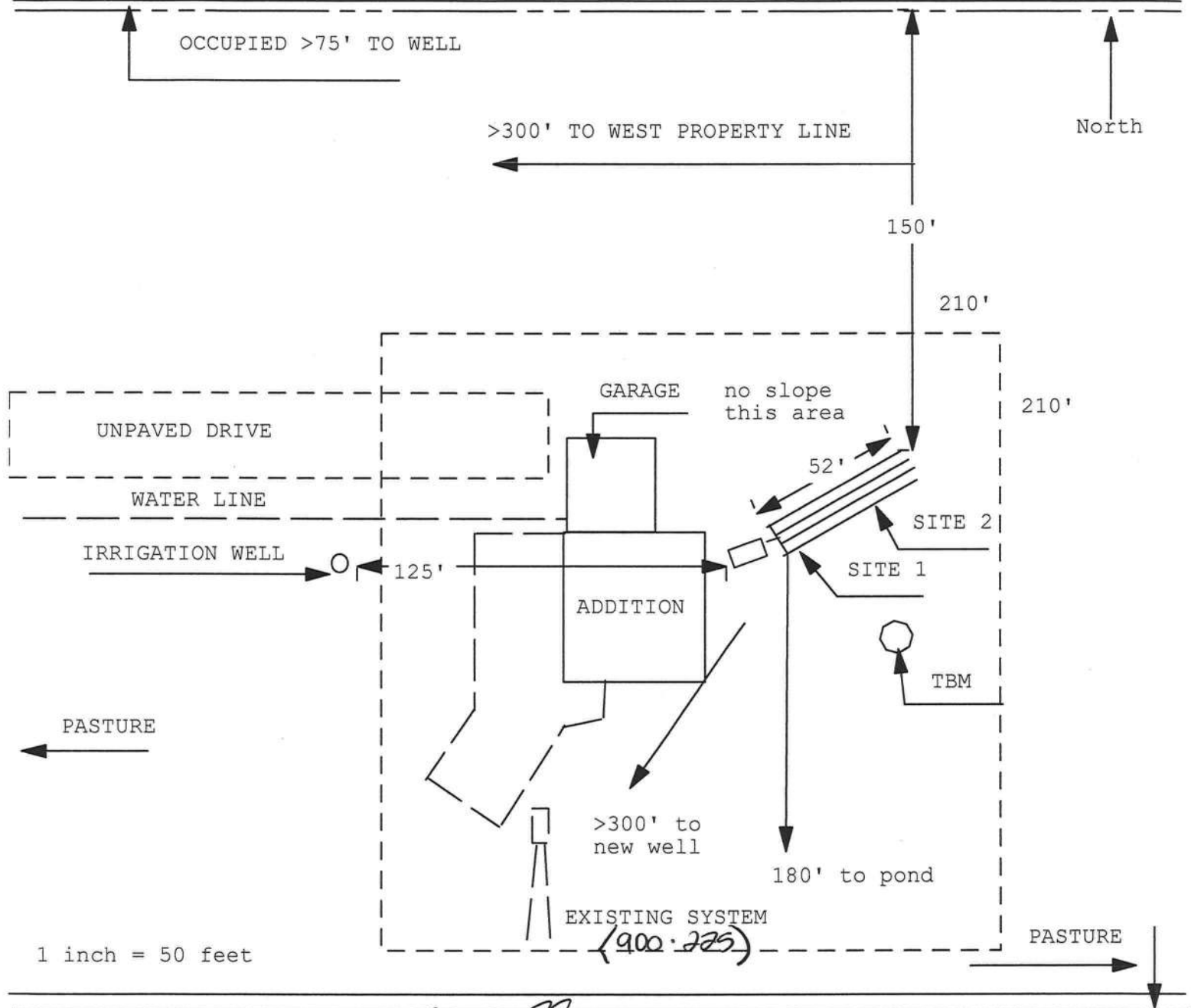
☐ Other (Specify) _____

APPLICANT'S SIGNATURE: Paul Lloyd

DATE: 11/6/09

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 09-0561

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul R. Rupp Date 10/20/09
Plan Approved ☒ Not Approved ☐ Date _____
By Salli Ford - EH Director - Columbia 11/10/09 CPHU

Notes: _____



**COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST REQUIREMENTS**

**MINIMUM PLAN REQUIREMENTS FOR THE
FLORIDA BUILDING CODE RESIDENTIAL 2007
ONE (1) AND TWO (2) FAMILY DWELLINGS**

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL. 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

**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		X		
3	Condition space (Sq. Ft.)	1603	IIIIII	IIIIII	IIII
	Total (Sq. Ft.) under roof				
	3413				

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	IIIII	IIII	IIIII
		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/m ²), to be used for the design of exterior component, cladding materials not specifically 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	✓		N/A
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	Emergency escape and rescue opening shown in each bedroom (net clear opening shown)	✓		
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	Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FBCR SECTION 311)	✓		N/A
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 plan (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 value of soil _____ Pound Per Square Foot	✓		
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type)	✓		

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 submit 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	✓		NA
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	✓		NA

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 piers	✓		NA
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers	✓		
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	✓		
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &	✓		

48	intermediate 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	✓		NA
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			NA
67	Valley framing and support details			NA
68	Provide dead load rating of rafter system			NA

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 assemblies covering			MA
72	Submit Florida Product Approval numbers for each component of the roof assemblies 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 chapter 11 Residential buildings compliance methods. *Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area*

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	✓		MA

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	✓		
78	Exhaust fans locations in bathrooms	✓		
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			NA
83	Reservoir pressure tank gallon capacity			NA
84	Rating of cycle stop valve if used			NA

Electrical layout shown including

85	Switches, outlets/receptacles, lighting and all required GFCI outlets identified	✓		
86	Ceiling fans	✓		
87	Smoke detectors & Carbon dioxide detectors	✓		
88	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.	✓		

90	Appliances and HVAC equipment and disconnects	<input checked="" type="checkbox"/>		
91	Arc Fault Circuits (AFCI) in bedrooms	<input checked="" type="checkbox"/>		

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	<input checked="" type="checkbox"/>		
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	<input checked="" type="checkbox"/>		
95	City of Lake City A permit showing an approved waste water sewer tap	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
96	Toilet facilities shall be provided for all construction sites	<input checked="" type="checkbox"/>		
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.			<input checked="" type="checkbox"/>
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			<input checked="" type="checkbox"/>
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established	<input checked="" type="checkbox"/>		
100	A development permit will also be required. Development permit cost is \$50.00	<input checked="" type="checkbox"/>		
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.	<input checked="" type="checkbox"/>		
102	911 Address: If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125	<input checked="" type="checkbox"/>		

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 of 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

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

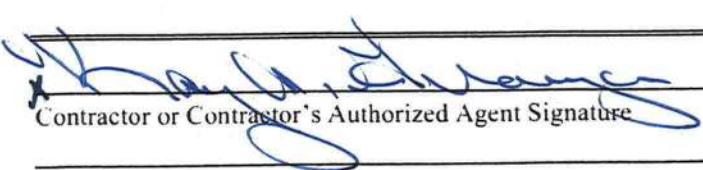
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 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			FL 4242-R1
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			FL 5108
2. Horizontal Slider			FL 5451
3. Casement			
4. Double Hung			
5. Fixed			FL 5418
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			FL 889-R2
2. Soffits			FL 4899
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			FL 3820-R1
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			FL 586-R2
2. Underlayments			FL 1814-R1
3. Roofing Fasteners			
4. Non-structural Metal Rf			FL 9555.5
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			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			FL 1960-R1
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			FL 451-R1
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			FL 474-R1
2. Truss plates			
3. Engineered lumber			FL 1008-R1
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection.


 Contractor or Contractor's Authorized Agent Signature

KAY A. GRANGER
 Print Name

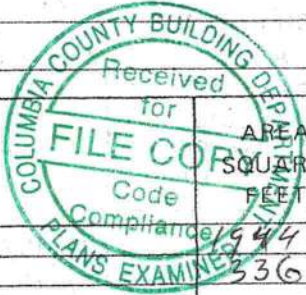
Date

Permit # (FOR STAFF USE ONLY)

TOTAL HEATING AND COOLING REQUIREMENTS

Page 2

For: Granger
 Name: _____
 Address: _____
 City: _____



(✓) Check Constr. Type	ITEM	AREA SQUARE FEET	DESIGN TEMPERATURE DIFFERENCE					DESIGN TEMP		HEATING (BTUH LOSS)	COOLING MULT. (CIRCLE)	COOLING (BTUH GAIN)
			30°	35°	40°	45°	50°	90°	95°			
			HEATING MULTIPLIER (CIRCLE ONE)									
	Gross Wall Area											
	Glass Area (From page 1)	1944								11760		16800
	Partitions, Frame											
	Finished 1 side, No Insulation		17	19	22	25	28				6.5	10.0
	Finished 2 sides, No Insulation		9	11	12	14	16				4.5	6.0
	Finished 2 sides, R-5		4	5	5.5	6	7				2.5	3.5
	Finished 2 sides, R-11		2	3	3	4	4				2.0	2.5
	Other											
	Doors (Excluding glass)											
	No weatherstripping		135	160	180	200	225				10.0	13.0
	Weatherstripped	36	70	85	95	110	120			3420	10.0	13.0
	R-5 Insulation, No weatherstripping		123	144	164	185	205				4.3	5.5
	R-5 Insulation, weatherstripping		68	79	90	101	113				4.0	5.0
	Other											
	Net Exterior Walls											
	CBS Furred, No Insulation		9	10	12	13	14				4.5	6.0
	CBS Furred, R-3 Insulation		5	6	7	8	8				3.0	4.2
	CBS Furred, R-4 Insulation		4	5	6	6	7				2.7	3.8
	CBS Furred, R-5 Insulation		4	5	5	6	6				2.5	3.5
	Frame, No Insulation		8	9	10	11	13				5.5	7.0
	Frame, R-11 Insulation		2	2	3	3	4				2.5	3.0
	Frame, R-14 Insulation	1572	1.5	1.7	2	2.5	3			3144	2	2.8
	Other											
	Ceiling under attic	Roof										
	No Insulation	DK LT	18	21	24	27	30				9	7
	R-11 Insulation	DK LT	2.4	2.8	3.2	3.5	3.9				2.5	2
	R-19 Insulation	DK LT	1.5	1.7	1.9	2.2	2.4				1.5	1.5
	R-22 Insulation	DK LT	1.2	1.5	1.7	1.9	2.1				1.5	1.0
	R-26 Insulation	DK LT	1.1	1.3	1.4	1.6	1.8				1.3	1
	R-30 Insulation	DK LT	2350	1	1.1	1.3	1.4	1.6			3055	1.1
	Other											
	Floor, Concrete Slab	Perimeter Ft.										
	No Edge Insulation		35	40	40	45	45				0	0
	Other											
	Subtotal									21379		24725
	People @ 300 & Appl. @ 1200											4800
	Sensible BTUH Gain											29525
	Duct BTUH Loss & Gain											
	2 In. Flex. or 1 In. Rigid									2137	.10	2952
	1½ In. Rigid										.075	
	Total BTUH Loss									13516		
	Subtotal BTUH Gain											32424
	x 1.3 = Total BTUH Gain											42220

Calculated Heating Requirements _____ BTUH Calculated Cooling Requirements _____ BTUH
 Size of Unit Chosen _____ BTUH Size of Unit Chosen _____ BTUH
 % Oversized _____ % Oversized _____
 % Undersized _____ % Undersized _____

TOTAL HEATING AND COOLING REQUIREMENTS

Page 2

For: _____
 Name: Granger
 Address: _____
 City: _____

(✓) Check Constr. Type	ITEM	AREA SQUARE FEET	DESIGN TEMPERATURE DIFFERENCE					HEATING (BTUH LOSS)	DESIGN TEMP		COOLING MULT. (CIRCLE)	COOLING (BTUH GAIN)	
			30°	35°	40°	45°	50°		90°	95°			
	Gross Wall Area	1944											
	Glass Area (From page 1)	336						11760				16800	
	Partitions, Frame												
	Finished 1 side, No Insulation		17	19	22	25	28			6.5	10.0		
	Finished 2 sides, No Insulation		9	11	12	14	16			4.5	6.0		
	Finished 2 sides, R-5		4	5	5.5	6	7			2.5	3.5		
	Finished 2 sides, R-11		2	3	3	4	4			2.0	2.5		
	Other												
	Doors (Excluding glass)												
	No weatherstripping		135	160	180	200	225			10.0	13.0		
	Weatherstripped	36	70	85	95	110	120	3420		10.0	13.0	468	
	R-5 Insulation, No weatherstripping		123	144	164	185	205			4.3	5.5		
	R-5 Insulation, weatherstripping		68	79	90	101	113			4.0	5.0		
	Other												
	Net Exterior Walls												
	CBS Furred, No Insulation		9	10	12	13	14			4.5	6.0		
	CBS Furred, R-3 Insulation		5	6	7	8	8			3.0	4.2		
	CBS Furred, R-4 Insulation		4	5	6	6	7			2.7	3.8		
	CBS Furred, R-5 Insulation		4	5	5	6	6			2.5	3.5		
	Frame, No Insulation		8	9	10	11	13			5.5	7.0		
	Frame, R-11 Insulation		2	2	3	3	4			2.5	3.0		
	Frame, R-14 Insulation	1572	1.5	1.7	2	2.5	3	3144		2	2.8	4402	
	Other												
	Ceiling under attic	Roof											
	No Insulation	DK LT	18	21	24	27	30			9	7	10	8.5
	R-11 Insulation	DK LT	2.4	2.8	3.2	3.5	3.9			2.5	2	3	2.5
	R-19 Insulation	DK LT	1.5	1.7	1.9	2.2	2.4			1.5	1.5	2	1.5
	R-22 Insulation	DK LT	1.2	1.5	1.7	1.9	2.1			1.5	1.0	1.5	1.5
	R-26 Insulation	DK LT	1.1	1.3	1.4	1.6	1.8			1.3	1	1.5	1.2
	R-30 Insulation	DK LT	2350	1	1.1	1.3	1.4	1.6	3055	1.1	.9	1.3	1.0
	Other												
	Floor, Concrete Slab	Perimeter Ft.											
	No Edge Insulation		35	40	40	45	45			0	0		
	Other												
	Subtotal							21379				24725	
	People @ 300 & Appl. @ 1200											4800	
	Sensible BTUH Gain											29525	
	Duct BTUH Loss & Gain												
	2 In. Flex. or 1 In. Rigid		.10					2137		.10		2952	
	1½ In. Rigid		.075							.075			
	Total BTUH Loss							13516					
	Subtotal BTUH Gain											32479	
	x 1.3 = Total BTUH Gain											42220	

Calculated Heating Requirements _____ BTUH Calculated Cooling Requirements _____ BTUH
 Size of Unit Chosen _____ BTUH Size of Unit Chosen _____ BTUH
 % Oversized _____ % Oversized _____
 % Undersized _____ % Undersized _____

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION		NORTH 1 2 3	
FORM 800A-08		Alternate Residential Points System Method	
PROJECT NAME: AND ADDRESS:		BUILDER:	
		PERMITTING OFFICE:	CLIMATE ZONE: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
OWNER:	<i>Crowley</i>	PERMIT NO.:	JURISDICTION NO.:

1. New construction or addition
2. Single-family detached or Multiple-family attached
3. If Multiple-family-No. of units covered by this submission
4. Is this a worst case? (yes/no)
5. Conditioned floor area (sq. ft.)
6. Predominant eave overhang (ft.)
7. Glass type¹ and area: (Label required by 13-104.4.5 if not default)
 - a. U-factor; (or Single- or Double-Pane DEFAULT)
 - b. SHGC; (or Clear or Tint DEFAULT)
8. Floor type and insulation:
 - a. Slab-on-grade (R-value + perimeter)
 - b. Wood, raised (R-value + sq. ft.)
 - c. Concrete, raised (R-value)
9. Net wall type, area and insulation:
 - a. Exterior:
 1. Concrete block (Insulation R-value)
 2. Wood frame (Insulation R-value)
 3. Steel frame (Insulation R-value)
 4. Log (Insulation R-value)
 5. Other: _____
 - b. Adjacent:
 1. Concrete block (Insulation R-value)
 2. Wood frame (Insulation R-value)
 3. Steel frame (Insulation R-value)
 4. Log (Insulation R-value)
10. Ceiling type, area and insulation:
 - a. Under attic (Insulation R-value)
 - b. Single assembly (Insulation R-value)
 - c. Radiant barrier, IRCC or white roof installed?
11. Air distribution system:
 - a. Ducts (Insulation + Location)
 - b. Air Handler (Location)
12. Cooling system:
(Types: central-split, central-single pkg., room unit, PTAC, gas, none)
13. Heating system:
(Types: heat pump, elec. strip, nat. gas, LP gas, gas h.p., room or PTAC, none)
14. Hot water system:
(Types: elec., natural gas, solar, LP gas, none)
15. Hot water credits
 - a. Heat Recovery (HR)
 - b. Dedicated Heat Pump (DHP)
 - c. Solar
16. HVAC Credits
(Use: CF-ceiling fan, CV-cross vent, PT-programmable thermostat, HF-whole house fan, MZ-Multizone)
17. COMPLIANCE STATUS: (PASS if As-Built Pts. are less than Base Pts.)
 - a. Total As-Built points
 - b. Total Base points

Please Type		CK
1. <i>new</i>		
2. <i>single family</i>		
3. <i>none</i>		
4. <i>yes</i>		
5. <i>2350</i>	sq. ft.	
6. <i>2</i>	ft.	
Description Area		
7a. <i>double pane</i>	<i>336</i>	sq. ft.
7b. _____		sq. ft.
8a. R = _____	<i>2350</i>	sq. ft.
8b. R = _____		sq. ft.
8c. R = _____		sq. ft.
9a-1 R = _____		sq. ft.
9a-2 R = <i>19</i>	<i>1572</i>	sq. ft.
9a-3 R = _____		sq. ft.
9a-4 R = <i>✓</i>		sq. ft.
9b-1 R = _____		sq. ft.
9b-2 R = _____		sq. ft.
9b-3 R = _____		sq. ft.
9b-4 R = _____		sq. ft.
10a. _____		sq. ft.
10b. <i>R30</i>	<i>2350</i>	sq. ft.
10c. _____		
11a. R = <i>6</i>		sq. ft.
11b. R = <i>6</i>		sq. ft.
12a. Type: <i>central split</i>		
12b. SEER/EER/COP: <i>16.0 1250</i>		
12c. Capacity: <i>47000</i>		
13a. Type: <i>central</i>		
13b. HSPF/COP/AFUE: <i>9.10</i>		
13c. Capacity: <i>48000</i>		
14a. Type: <i>Electric</i>		
14b. EF: <i>1.40</i>		
15a. <i>NA</i>		
15b. <i>NA</i>		
15c. <i>NA</i>		
16. <i>NA</i>		
17. _____		
17a. _____	17b. _____	

I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: _____ I hereby certify that this building is in compliance with the Florida Energy Code: OWNER AGENT: _____ DATE: _____	Review of 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 in accordance with Section 553.908, F.S. BUILDING OFFICIAL: _____ DATE: _____
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¹ Predominant glass type. For actual glass type and areas, see summer and winter glass output on Pages 2 and 4.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION		NORTH 123	
FORM 800A-08		Alternate Residential Points System Method	
PROJECT NAME: AND ADDRESS:		BUILDER:	
		PERMITTING OFFICE:	CLIMATE ZONE: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
OWNER:	<i>Covington</i>	PERMIT NO.:	JURISDICTION NO.:

1. New construction or addition
2. Single-family detached or Multiple-family attached
3. If Multiple-family—No. of units covered by this submission
4. Is this a worst case? (yes/no)
5. Conditioned floor area (sq. ft.)
6. Predominant eave overhang (ft.)
7. Glass type¹ and area: (Label required by 13-104.4.5 if not default)
 - a. U-factor: (or Single- or Double-Pane DEFAULT)
 - b. SHGC: (or Clear or Tint DEFAULT)
8. Floor type and insulation:
 - a. Slab-on-grade (R-value + perimeter)
 - b. Wood, raised (R-value + sq. ft.)
 - c. Concrete, raised (R-value)
9. Net wall type, area and insulation:
 - a. Exterior:
 1. Concrete block (Insulation R-value)
 2. Wood frame (Insulation R-value)
 3. Steel frame (Insulation R-value)
 4. Log (Insulation R-value)
 5. Other: _____
 - b. Adjacent:
 1. Concrete block (Insulation R-value)
 2. Wood frame (Insulation R-value)
 3. Steel frame (Insulation R-value)
 4. Log (Insulation R-value)
10. Ceiling type, area and insulation:
 - a. Under attic (Insulation R-value)
 - b. Single assembly (Insulation R-value)
 - c. Radiant barrier, IRCC or white roof installed?
11. Air distribution system:
 - a. Ducts (Insulation + Location)
 - b. Air Handler (Location)
12. Cooling system:
(Types: central-split, central-single pkg., room unit, PTAC, gas, none)
13. Heating system:
(Types: heat pump, elec. strip, nat. gas, LP gas, gas h.p. room or PTAC, none)
14. Hot water system:
(Types: elec., natural gas, solar, LP gas, none)
15. Hot water credits
 - a. Heat Recovery (HR)
 - b. Dedicated Heat Pump (DHP)
 - c. Solar
16. HVAC Credits
(Use: CF-ceiling fan, CV-cross vent, PT-programmable thermostat, HF-whole house fan, MZ-Multizone)
17. COMPLIANCE STATUS: (PASS if As-Built Pts are less than Base Pts.)
 - a. Total As-Built points
 - b. Total Base points

Please Type	CK
1. <i>new</i>	
2. <i>Single family</i>	
3. <i>none</i>	
4. <i>yes</i>	
5. <i>2350</i> sq. ft.	
6. <i>21</i> ft.	
7a. <i>Double P</i> <i>336</i> sq. ft.	
7b. _____ sq. ft.	
8a. R = _____, <i>2350</i> ft.	
8b. R = _____, _____ sq. ft.	
8c. R = _____, _____ sq. ft.	
9a-1 R = _____, _____ sq. ft.	
9a-2 R = <i>19</i> , <i>1572</i> sq. ft.	
9a-3 R = _____, _____ sq. ft.	
9a-4 R = _____, _____ sq. ft.	
9b-1 R = _____, _____ sq. ft.	
9b-2 R = _____, _____ sq. ft.	
9b-3 R = _____, _____ sq. ft.	
9b-4 R = _____, _____ sq. ft.	
10a. _____ sq. ft.	
10b. <i>R30</i> <i>2350</i> sq. ft.	
10c. _____	
11a. R = <i>6</i> , _____ sq. ft.	
11b. R = <i>6</i> , _____ sq. ft.	
12a. Type: <i>Central Split</i>	
12b. SEER/EER/COP: <i>16.0/12.5</i>	
12c. Capacity: <i>47000</i>	
13a. Type: <i>Central</i>	
13b. HSPF/COP/AFUE: <i>9.10</i>	
13c. Capacity: <i>48000</i>	
14a. Type: <i>Electric</i>	
14b. EF: <i>1.40</i>	
15a. <i>NA</i>	
15b. <i>NA</i>	
15c. <i>NA</i>	
16. <i>NA</i>	
17. _____	
17a. _____	17b. _____

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

PREPARED BY: _____ DATE: _____

I hereby certify that this building is in compliance with the Florida Energy Code:

OWNER AGENT: _____ DATE: _____

Review of 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 in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

¹ Predominant glass type. For actual glass type and areas, see summer and winter glass output on Pages 2 and 4.

Granger Residence Addition, Columbia County FL
Wind Load Analysis Requirements
(In Compliance with the 2007 Florida Building Code and 2009 Amendments)

Prepared By: Marty J. Humphries, P.E. # 51976
7932 240th St., O'Brien, FL 32071 (386)935-2406

Description of Addition:

Footprint: 81'6" wide by 48' deep overall – this includes a 30'2" wide by 32' deep garage to the left and a 16' deep by 51'4" sunroom at the rear(see plan by Christopher Q. Dicks)

Walls: 10' plate height walls or shorter shall be 2x4 SPF -16" O.C. with 7/16" OSB sheathing and wood board and batten siding with ½" gypsum- wall board interior.

11'4" plate height wall around garage shall be 2x6 SPF -16" O.C. with 7/16" OSB sheathing and wood board and batten siding with ½" gypsum wall board interior.

Roof Structure: Pre-engineered roof trusses and 7/16" OSB sheathing (min.)

Roof Type: gable(analyzed for 2' eave overhang)

Foundation: concrete slab and masonry stemwall

Windload Data and Exposure:

Basic Wind Speed = 110 mph

Importance Factor = 1.0

Exposure category = B

Height and Exposure Adjustment Coefficient = 1.0

Residential Occupancy = Group R3

Analysis Method = ASCE 7-05 Chapter 6 Simplified Procedure

Component and Cladding Pressures: Roof – Zone 1=12.5,-29.9, Zone 2=12.5 -34.7

Zone 3=12.5,-51.3, Wall – Zone 4=21.8,-23.6, Zone 5 =21.8, -29.1

Mean roof height = 18'

Roof Cross Slope = 6:12

Eave Overhang= (Analyzed for 2' eaves)

Wall Height = 10' & 11'4" (above slab)

Shear Wall locations = exterior walls only(>3' in length)(all exterior walls shall be sheathed)
(this includes the wall between the sunroom and the bedroom, kitchen, and breakfast areas)

Nailing Pattern Requirements:

Wall sheathing: Shall be 7/16" Oriented Strand Board(OSB) minimum nailed with 8d
(exterior walls) common nails 3" on center around edges(including around doors and windows) and 6" on center interior. Long dimension of sheathing shall be installed vertical and full depth blocking shall be installed at horizontal joints in sheathing.

Roof sheathing: Shall be 7/16" Oriented Strand Board(OSB) minimum nailed with 8d ring shank nails 6" on center.

Top wall plate: Nail with 2-16d common nail 16" O.C.(average)



Marty J. Humphries
10-23-09

Strapping and Anchor Requirements:

truss to wall plate: Install one Simpson model H10 hurricane anchor at each location.

wall strap tie requirements: At the top and bottom of the wall install one Simpson model SP4 at side of each door and window under 4' in width. At the top and bottom of the wall for windows and doors larger than 4' in width install two Simpson model SP4's each side of each opening. All other wall locations install SP4's top and bottom of the wall 4' on center. At the garage area use same spacing requirements but install SP6's. At the garage door install 2-SP6H's at the top and bottom of the wall each side.

4x6 columns at Sunroom: Connect to slab with Simpson ABU46 anchor and to header with Simpson AC6(Max)

Lookouts: Install one Simpson model H5 where lookouts connect to end gable truss.

Gable end: Install one LSTA18 - 4' on center connecting gable end truss to wall framing.

Gable End Bracing Requirements:

At each gable end install one 2x4 SPF 8' stud spaced 6' on center horizontal along top of bottom chord of trusses, nail with 2-12d nails at each truss including end truss. In addition, install a 2x4 brace extending from this stud at the gable end truss approx. 45 degrees to truss at roof sheathing, nail with 2 -12d nails where it crosses truss members and at ends. Gable end trusses shall be built to receive sheathing with vertical members 2' on center. Vertical members of gable end truss greater than 5' in height shall be stiffened with one 2x4 SPF nailed with 12d nails 8" on center to back of vertical member. (See attached detail)

Sunroom Truss Bracing Requirements:

At sunroom area install double #2 SYP 2x4 x-braces(45 degrees) attached to the top of the bottom chords of the trusses. Connect to trusses with 2-12d nails each location.


Foundation Requirements:

Stemwall: Minimum size of footer shall be 10" x 20" wide with 2-#5 rebar continuous and 1-#5 vertical rebar 48" on center. All cells shall be filled with concrete. 1/2" anchor bolts with 2" washers shall be installed 3' on center and 9" from corners each way and at each side of door openings. At 11'4" ht. walls around garage area install 5/8" anchor bolts with 3"x 3" washers 3' on center and 9" each way at corners and each side of door openings. (3000 psi concrete min)

Footer tie-in : Where new perimeter footer connects to existing footer, epoxy two #5 rebar dowels 8" into existing footer and extend 30" into proposed footer. Use Simpson SET high strength epoxy.

Header Requirements:

Windows/Doors: Minimum header shall be 2 - #2 SYP 2x12's w 1/2" OSB or plywood between nailed w 12d nails 10" on center top & bottom.



10-23-09

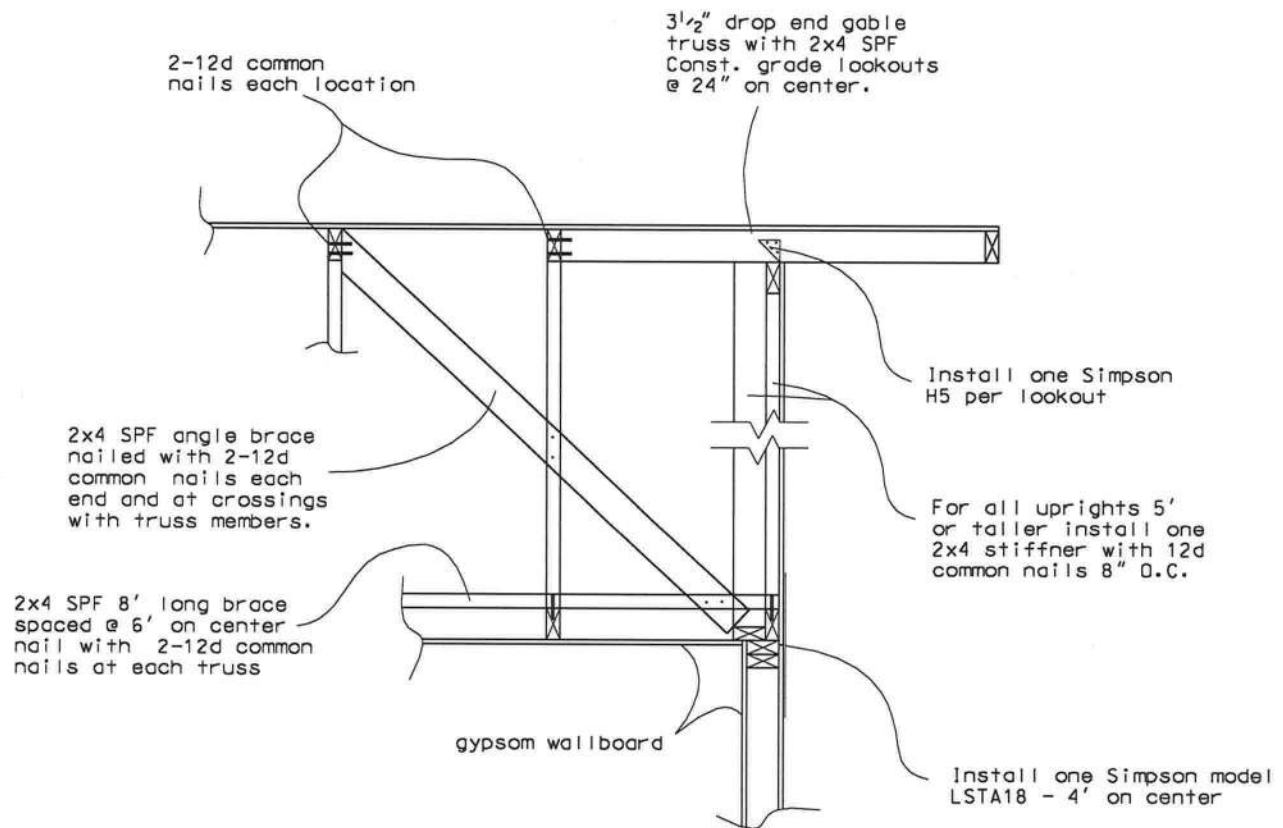
Sunroom: Minimum header shall be 2 - #2 SYP 2x10's w 1/2" OSB or plywood between nailed w 12d nails 10" on center top & bottom.

Garage Door: Minimum header shall be 3 - #2 SYP 2x10's w 1/2" OSB or plywood between each 2x12 - nailed w 12d nails 10" on center top & bottom.

Note: Insulated plate glass and frames in Sunroom area must be installed by a certified commercial glass company and shall meet the requirements of the Florida Building Code.

Equivalent capacity anchors may be substituted, installed in accordance with the manufacturers requirements.


10-23-09



GABLE END BRACING
DETAIL (N.T.S.)

Marty J. Humphries
10-23-09

Granger Residence
Columbia County, FL

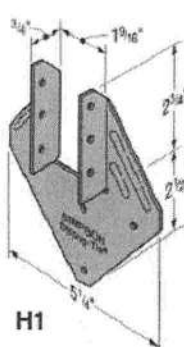
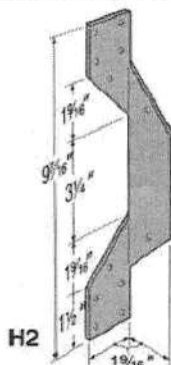
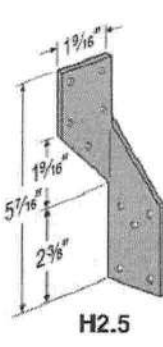
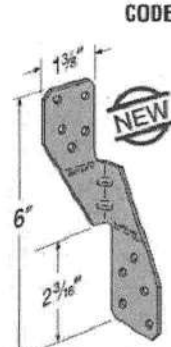
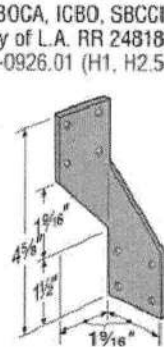
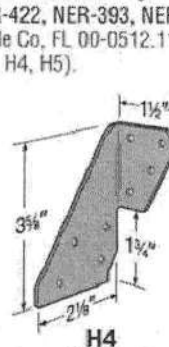
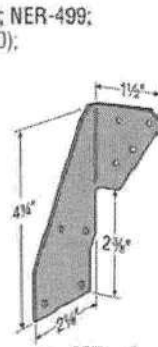
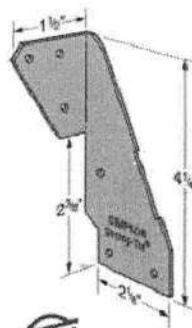
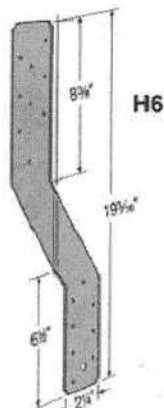
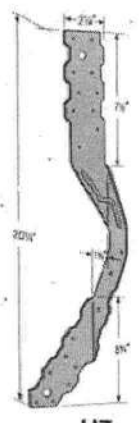
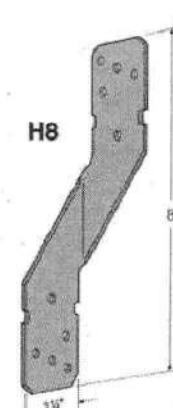
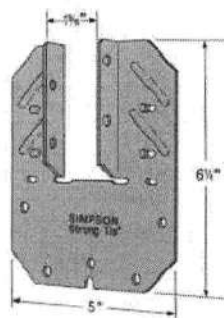
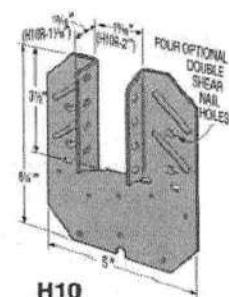
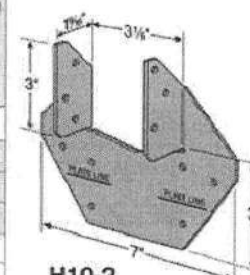
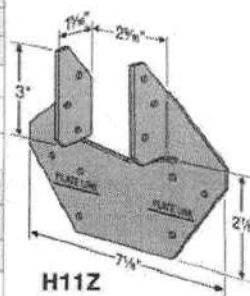
DETAIL PREPARED BY:
MARTY J. HUMPHRIES P.E. # 51976
7932 240TH ST., O'BRIEN, FL 32071

NEW! The H2.5A is symmetrically designed for easy installation, with higher uplift loads to meet new code requirements. A placement mark allows easy installation on double top plates.

NEW! The H5A has an installed cost benefit, as it only requires 6 nails, to meet lower uplift requirements.

The H connector series provides wind and seismic ties for trusses and rafters.

Allowable loads for more than one direction for a single connection cannot be added together. A design load which can be divided into components in the directions given must be evaluated as follows:
 Design Shear/Allowable Shear + Design Tension/Allowable Tension < 1.0.


H1

H2

H2.5

H2.5A

H3

H4
 U.S. Patent
 4,714,372

H5
 U.S. Patent
 4,714,372

H5A
 U.S. Patent
 4,714,372

H6

H7

H8

H9

H10
 (H10R similar)
 U.S. Patents
 4,480,941;
 Canada Patent
 1,193,418

H10-2

H11Z

Model No.	Ga	Fasteners			Uplift Avg Ulf	Doug-Fir Larch/So. Pine Allowable Loads ^{1,2}				Uplift Load with 8dx1½ Nails (133 & 160)	Spruce-Pine-Fir Allowable Loads ^{1,2}				Uplift Load with 8dx1½ Nails (133 & 160)
		To Rafters/ Truss	To Plates	To Studs		Uplift		Lateral (133/160)			Uplift		Lateral (133/160)		
						(133)	(160)	F ₁	F ₂		(133)	(160)	F ₁	F ₂	
H1	18	6-8dx1½	4-8d	—	1958	490	585	485	165	455	400	400	415	140	370
H2	18	5-8d	—	5-8d	1040	335	335	—	—	335	230	230	—	—	230
H2.5	18	5-8d	5-8d	—	1300	415	415	150	150	415	365	365	130	130	365
H2.5A	18	5-8d	5-8d	—	1793	600	600	110	110	480	520	535	110	110	480
H3	18	4-8d	4-8d	—	1433	455	455	125	160	415	320	320	105	140	290
H4	20	4-8d	4-8d	—	1144	360	360	165	160	360	235	235	140	135	235
H5	18	4-8d	4-8d	—	1485	455	465	115	200	455	265	265	100	170	265
H5A	18	3-8d	3-8d	—	1500	350	420	115	180	290	245	245	100	120	170
H6	16	—	8-8d	8-8d	3983	915	950	650	—	—	783	820	560	—	—
H7	16	4-8d	2-8d	8-8d	2991	930	985	400	—	—	800	845	345	—	—
H8	18	5-10dx1½	5-10dx1½	—	2422	620	745	—	—	—	530	565	—	—	—
H9KT	18	4-SDS"x1½	5-SDS"x1½	—	2812	875	875	680	125	—	755	755	680	125	—
H10	18	8-8dx1½	8-8dx1½	—	3135	905	990	585	525	—	780	850	505	450	—
H10R	18	8-8dx1½	8-8dx1½	—	3135	905	990	585	525	—	780	850	505	450	—
H10-2	18	6-10d	6-10d	—	2447	760	760	455	395	—	655	655	390	340	—
H11Z	18	6-16dx2½	6-16dx2½	—	5097	830	830	525	760	—	715	715	450	655	—

1. Loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed.
2. Allowable loads are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.
3. Allowable uplift load for stud to bottom plate installation is 400 lbs (H2.5); 390 lbs (H2.5A); 360 lbs (H4) and 310 lbs (H8).

4. The H9KT is sold in 20 piece packs with screws.
5. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
6. Hurricane Ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a Continuous Load Path, connections must be on same side of the wall.

Z2 clips secure 2x4 flat blocking between joists or trusses to support sheathing.

MATERIAL: Z clips—see table. A21 and A23—18 ga.; all other A angles—12 ga.

FINISH: Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

- Z clips do not provide lateral stability. Do not walk on stiffeners or apply load until diaphragm is installed and nailed to stiffeners.

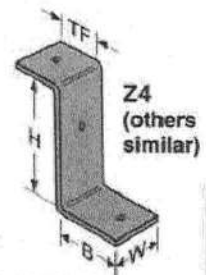
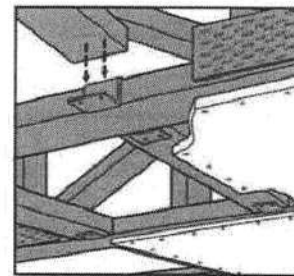
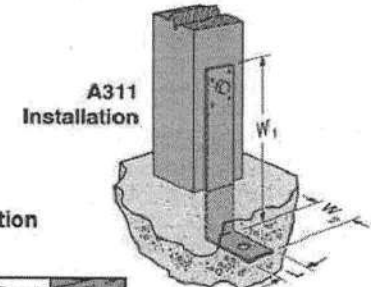
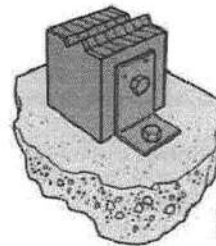
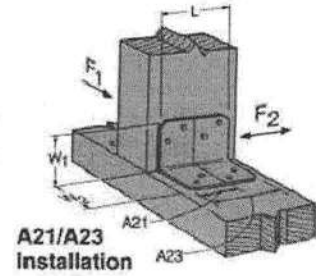
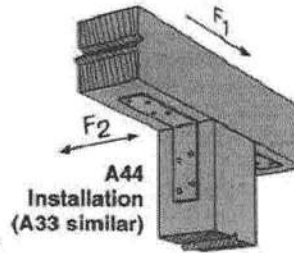
CODES: BOCA, ICBO, SBCCI NER-421 (except A33, A44); City of L.A.

RR 25076 (except A33, A44); Dade Co. FL 99-0623.04 (A21 and A23).

Model No.	Dimensions			Fasteners				Avg Ult F ₂	Allowable Loads ² DF/SP			
	W ₁	W ₂	L	Base		Post			(133)		(160)	
				Bolts	Nails	Bolts	Nails		F ₁	F ₂	F ₁	F ₂
A21	2	1½	1¾	—	2-10dx1½	—	2-10dx1½	540	245	175	290	175
A23	2	1½	2¾	—	4-10dx1½	—	4-10dx1½	1767	485	485	585	565
A33	3	3	1½	—	4-10d	—	4-10d	2635	625	330	750	330
A44	4¾	4¾	1½	—	4-10d	—	4-10d	2490	625	295	750	295
A66	5½	5½	1½	2-¾	—	2-¾	—	N/A	N/A	N/A	N/A	N/A
A88	8	8	2	3-¾	—	3-¾	—	N/A	N/A	N/A	N/A	N/A
A24	3½	2	2½	1-½	—	1-½	2-10d	N/A	N/A	N/A	N/A	N/A
A311	11	3½	2	1-½	—	1-½	4-10d	N/A	N/A	N/A	N/A	N/A

Model No.	Ga	Dimensions				Fasteners ¹ (Total)	Avg Ult	Allowable ² Download (125)
		W	H	B	TF			
Z2	20	2½	1½	1½	1½	4-10dx1½	1507	465
Z4	12	1½	3½	2½	1½	2-16d	1450	465
Z6	12	1½	5½	2	1½	2-16d	1517	485
Z28	28	2½	1½	1½	1½	10dx1½	—	—
Z38	28	2½	2½	1½	1½	10dx1½	—	—
Z44	12	2½	3½	2	1½	4-16d	2800	865

1. Z28 and Z38 do not have nail holes. Fastener quantities are as required.
2. Allowable loads have been increased 25% for roof loading (Z clips), 33% and 60% for earthquake or wind loading (A angles); no further increase allowed; reduce for other load durations according to the code.
3. Z4 and Z6 loads apply with a nail into the top and a nail into the seat.



SP/SPH/RSP4 STUD PLATE TIES

The RSP4 is a reversible stud plate tie with locating tabs, which aid placement on double top plates or a single bottom plate.

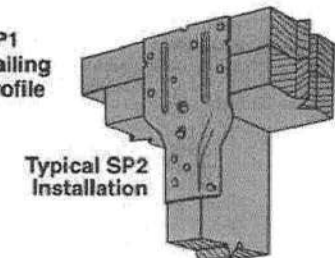
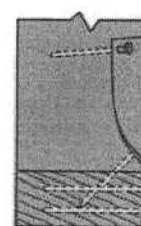
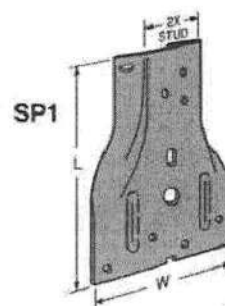
MATERIAL: SPH—18 gauge, all others—20 gauge **FINISH:** Galvanized

INSTALLATION: • Use all specified fasteners; see General Notes.

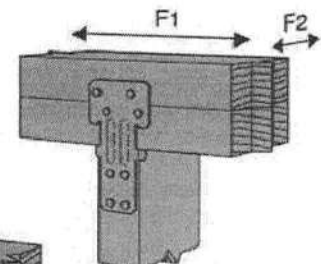
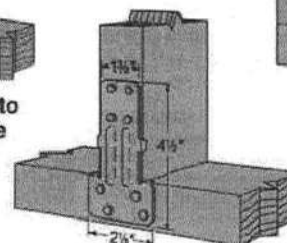
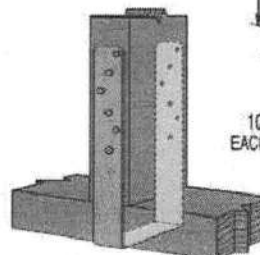
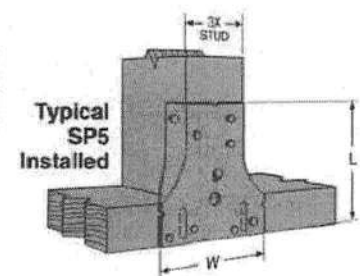
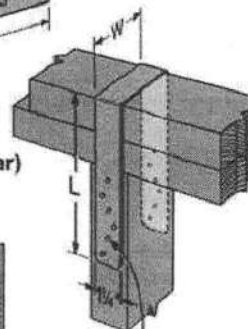
- SP—one of the 10d common stud nails is driven at a 45° angle through the stud into the plate.

CODES: BOCA, ICBO, SBCCI NER-432, NER-443, NER-499; SBCCI 9603A; City of LA RR 25318 (RSP4); Dade Co. FL 99-0623.04 (SP1, SP2, SP4, SP6, SP8).

Model No.	Dimensions		Fasteners		Avg Ult	Allowable Uplift Loads	
	W	L	Stud ¹	Plate		DF/SP	
						(133) ²	(160)
SP1	3½	5½	6-10d	4-10d	1950	585	585
SP2	3½	6½	6-10d	6-10d	3300	890	1065
SP3	4½	6½	6-10d	6-10d	3467	890	1065
SP4	3½	7½	6-10dx1½	—	2917	735	885
SP5	4½	5½	6-10d	4-10d	1950	585	585
SP6	5½	7½	6-10dx1½	—	2917	735	885
SP8	7½	8½	6-10dx1½	—	2917	735	885
SPH4	3½	8½	10-10dx1½	—	3993	1240	1240
			12-10dx1½	—	4470	1360	1360
SPH6	5½	9½	10-10dx1½	—	3993	1240	1240
			12-10dx1½	—	4470	1360	1360
SPH8	7½	8½	10-10dx1½	—	3993	1240	1240
			12-10dx1½	—	4470	1360	1360
RSP4 (1)	2½	4½	4-8dx1½	4-8dx1½	1032	315	315
RSP4 (2)	2½	4½	4-8dx1½	4-8dx1½	1445	450	450



Typical SPH Installation (SP4, 6, 8 similar)



(see footnote 4)

1. SP1, 2, 3 and SP5: drive one stud nail at an angle through the stud into the plate to achieve the table load (see illustration).
2. Allowable loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed. Reduce by 33% and 60% for normal loading.
3. RSP4—see installation details (1) and (2) for reference.
4. RSP4 F2 is 280 lbs (installation 1) and 305 lbs (installation 2). F1 load is 210 lbs for both installations.
5. Maximum load for SPH in Southern Yellow Pine is 1490 lbs.
6. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement

The MSTC series has countersunk nail slots for a lower nailing profile. Coined edges ensure safer handling. The RPS meets UBC and City of Los Angeles code requirements for notching plates where plumbing, heating or other pipes are placed in partitions.

Install Strap Ties where plates or soles are cut, at wall intersections, and as ridge ties. LSTA and MSTA straps are engineered for use on 1½" members. The 3" center-to-center nail spacing reduces the possibility of splitting. For the MST, this may be a problem on lumber narrower than 3½"; either fill every nail hole with 10d x 1½" nails or fill every other nail hole with 16d commons. Reduce the allowable load based on the size and

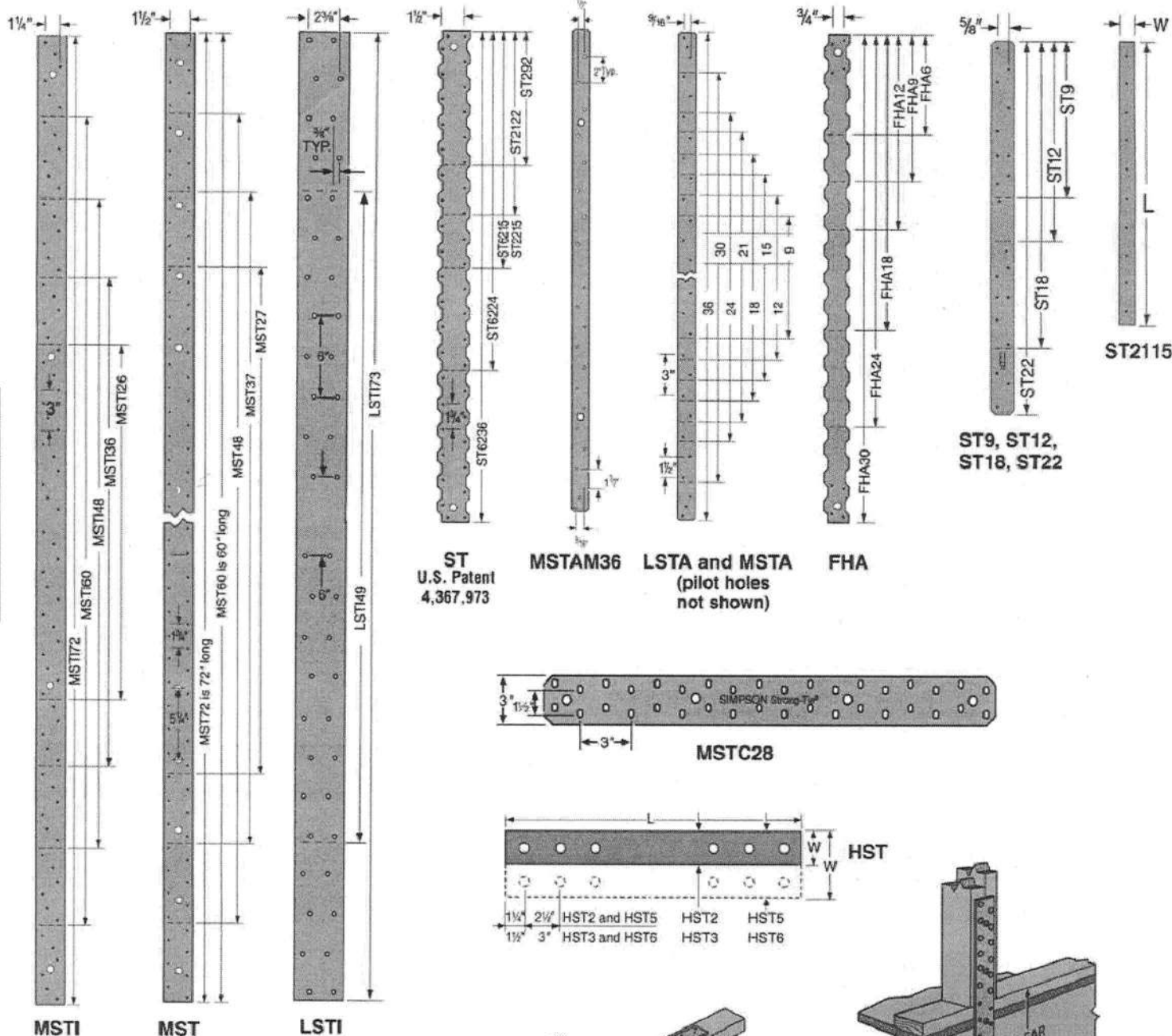
quantity of fasteners used. The LSTI light strap ties are suitable where gun-nailing is necessary through diaphragm decking and wood chord open web trusses.

FINISH: HST—Simpson gray paint; PS—HDG; all others—galvanized. Some products are available in stainless steel or Z-MAX; see Corrosion-Resistance, page 5.

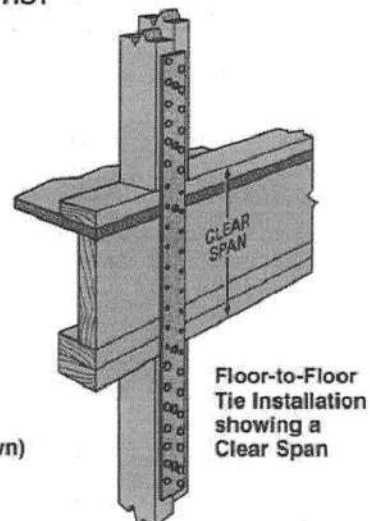
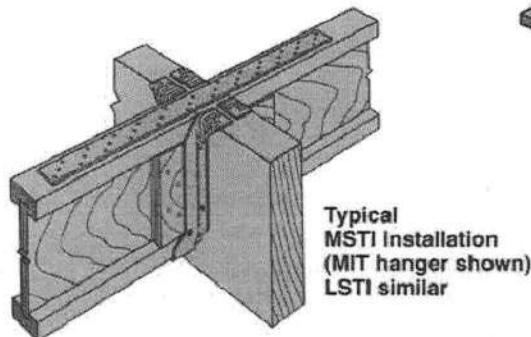
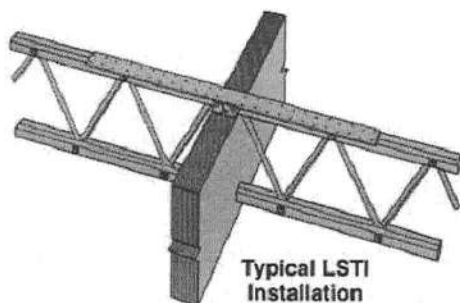
INSTALLATION: Use all specified fasteners. See General Notes.

OPTIONS: Special sizes can be made to order. See also HCST.

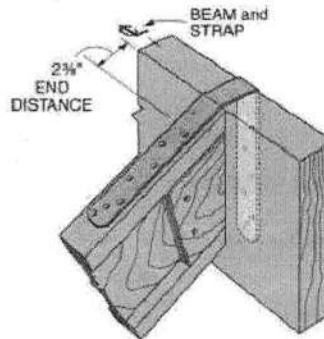
CODES: BOCA, ICBO, SBCCI NER-413, NER-443; ICBO 4935, 5357; Dade County, FL, 00-1023.05 (MSTA30, MSTA36, ST12, ST18, ST22); City of L.A. RR 25119, RR 25149, RR 25281.



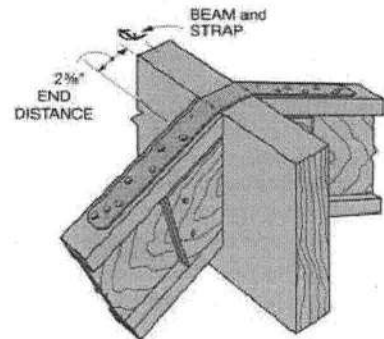
Straps & Ties



Model No.	Ga	Dimensions		Fasteners (Total)		Allowable Tension Loads		
		W	L	Nails		Floor (100)	(133)	(160)
RPS18	16	1 1/2	18 3/8	12-16d		810	1080	1295
RPS22		1 1/2	22 3/8	16-10d		905	1205	1445
RPS28		1 1/2	28 3/8	12-16d		810	1080	1295
LSTA9		1 1/2	9	8-10d		450	605	725
LSTA12		1 1/2	12	10-10d		565	755	905
LSTA15	20	1 1/2	15	12-10d		680	905	1085
LSTA18		1 1/2	18	14-10d		790	1055	1265
LSTA21		1 1/2	21	16-10d		905	1205	1295
LSTA24		1 1/2	24	18-10d		1015	1295	1295
ST292		2 1/2	9 3/4	12-16d		790	1055	1130
ST2122	18	2 1/2	12 3/4	16-16d		1070	1425	1505
ST2115		3/4	16 3/8	10-16d		450	600	600
ST2215		2 1/2	16 3/8	20-16d		1270	1695	1695
LSTA30		1 1/2	30	22-10d		1255	1670	1715
LSTA36		1 1/2	36	26-10d		1480	1715	1715
LSTI49	18	3 3/4	49	32-10dx1 1/2		1455	1940	2330
LSTI73		3 3/4	73	48-10dx1 1/2		2185	2910	3495
MSTA9		1 1/2	9	8-10d		455	610	730
MSTA12		1 1/2	12	10-10d		570	760	910
MSTA15		1 1/2	15	12-10d		685	910	1095
MSTA18	16	1 1/2	18	14-10d		800	1065	1275
MSTA21		1 1/2	21	16-10d		910	1215	1460
MSTA24		1 1/2	24	18-10d		1025	1370	1640
MSTA30		1 1/2	30	22-10d		1265	1685	2025
MSTA36		1 1/2	36	26-10d		1495	1995	2135
ST6215	16	2 1/2	16 3/8	20-16d		1330	1775	2130
ST6224		2 1/2	23 3/8	28-16d		1890	2520	2630
ST9		1 1/2	9	8-16d		530	705	850
ST12		1 1/2	11 3/8	10-16d		665	885	1065
ST18		1 1/2	17 3/8	14-16d		900	1200	1200
ST22	14	1 1/2	21 3/8	18-16d		1025	1370	1370
MSTC28		3	28 3/8	36-16d sinkers		2070	2760	3310
MSTC40		3	40 3/8	52-16d sinkers		2990	3985	4740
MSTC52		3	52 3/8	62-16d sinkers		3555	4740	4740
MSTC66		3	65 3/8	76-16d sinkers		4390	5855	5855
MSTC78	12	3	77 3/8	76-16d sinkers		4390	5855	5855
ST6236		2 1/2	33 3/8	40-16d		2575	3430	3430
FHA6		1 1/2	6 3/8	8-16d		550	735	885
FHA9		1 1/2	9	8-16d		550	735	885
FHA12		1 1/2	11 3/8	8-16d		550	735	885
FHA18	12	1 1/2	17 3/8	8-16d		550	735	885
FHA24		1 1/2	23 3/8	8-16d		550	735	885
FHA30		1 1/2	30	8-16d		550	735	885
MSTI26		2 1/2	26	26-10dx1 1/2		1130	1510	1810
MSTI36		2 1/2	36	36-10dx1 1/2		1565	2090	2505
MSTI48	10	2 1/2	48	48-10dx1 1/2		2135	2850	3420
MSTI60		2 1/2	60	60-10dx1 1/2		2760	3680	4415
MSTI72		2 1/2	72	72-10dx1 1/2		3310	4415	4725

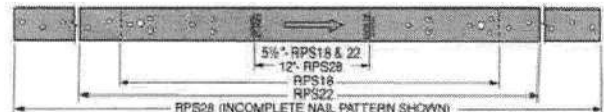


Typical LSTA Installation
(hanger not shown)

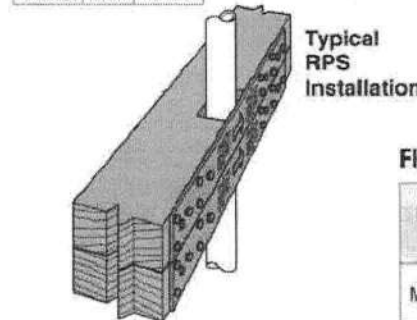


Typical LSTA Installation
(hanger not shown)

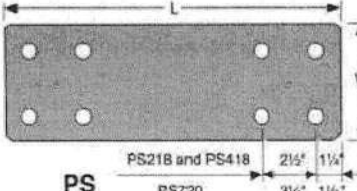
Model No.	Plate	Notch Width
RPS18	2x4	≤ 5 1/2"
RPS22	2x6	≤ 5 1/2"
RPS28	2x4	≤ 12"



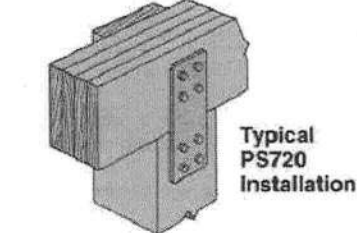
RPS



Typical RPS Installation



PS



Typical PS720 Installation

Model No.	Ga	Dimensions	Bolts
		W L Qty Dia	
PS218 ¹	7	2 18 4 5/8	
PS418 ¹		4 18 4 5/8	
PS720 ¹		6 20 8 1/2	

Floor-to-Floor Clear Span Table

Model No.	Clear Span	Fasteners (Total)	Allowable Tension Load	
			(133)	(160)
MSTC28	18	12-16d sinker	920	1105
	16	16-16d sinker	1225	1470
MSTC40	18	28-16d sinker	2145	2575
	16	36-16d sinker	2455	2945
MSTC52	18	44-16d sinker	3375	4050
	16	48-16d sinker	3680	4415
MSTC66	18	64-16d sinker	5035	5855
	16	68-16d sinker	5350	5855
MSTC78	18	80-16d sinker	5855	5855
	16	80-16d sinker	5855	5855
MST37	18	20-16d	1905	2285
	16	22-16d	2100	2515
MST48	18	32-16d	3135	3765
	16	34-16d	3330	4000
MST60	18	46-16d	4785	5740
	16	48-16d	4990	5800
MST72	18	56-16d	5800	5800
	16	56-16d	5800	5800
MSTI36	18	14-10dx1 1/2	810	975
	16	16-10dx1 1/2	930	1115
MSTI48	18	26-10dx1 1/2	1545	1855
	16	28-10dx1 1/2	1660	1990
MSTI60	18	38-10dx1 1/2	2330	2800
	16	40-10dx1 1/2	2455	2945
MSTI72	18	50-10dx1 1/2	3065	3680
	16	52-10dx1 1/2	3190	3830

Model No.	Ga	Dimensions		Fasteners (Total)		Allowable Tension Loads				
		W	L	Nails	Bolts Qty Dia	Floor (100)	(133)	(160)	Floor (100)	(133) (160)
MST27	12	2 1/2	27	30-16d	4 1/2	2070	2760	2790	1295	1725 2070
MST37		2 1/2	37	42-16d	6 1/2	2860	3815	3815	1825	2435 2920
MST48		2 1/2	48	46-16d	8 1/2	3345	4460	4460	2225	2970 3560
MST60	10	2 1/2	60	56-16d	10 1/2	4350	5800	5800	2670	3565 4275
MST72		2 1/2	72	56-16d	10 1/2	4350	5800	5800	2670	3565 4275
HST2	7	2 1/2	21 1/4	—	6 5/8	—	—	—	3130	4175 5005
HST5		5	21 1/4	—	12 5/8	—	—	—	6385	8510 10210
HST3		3	25 1/2	—	6 3/4	—	—	—	4645	6195 7435
HST6	3	6	25 1/2	—	12 3/4	—	—	—	9350	12465 14955

1. Loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed. Floor loads may not be increased for other load durations.
2. 10dx1 1/2" nails may be substituted where 16d sinkers are specified at 0.80 of the table loads.
3. 10d commons may be substituted where 16d sinkers are specified at 100% of table loads.
4. 16d sinkers (9 gauge x 3 1/4") or 10d commons may be substituted where 16d commons are specified at 0.84 of the table loads.
5. Allowable bolt loads are based on parallel-to-grain loading and these minimum member thicknesses: MST-2 1/2"; HST2 and HST5-4"; HST3 and HST6-4 1/2".
6. PS strap design loads must be determined by the building designer for each installation. Bolts are installed both perpendicular and parallel-to-grain.
7. Use half of the nails at each member being connected to achieve the listed loads.

Locking prongs inserts into concrete. The one-piece design assures maximum strength.

MATERIAL: 12 gauge. **FINISH:** Galvanized

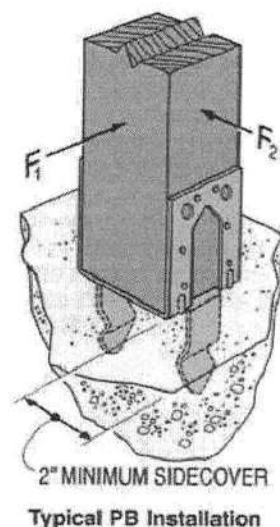
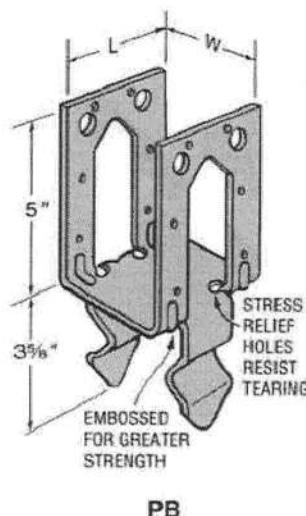
INSTALLATION: • Use all specified fasteners. See General Notes.

- Holes are provided for installation with either 16d commons or 1/2" bolts for PB66 and PB66R; all other models use 16d commons only.
- A 2" minimum sidecover is required to obtain the full load.
- Not recommended for non-top-supported installations such as fences.

CODES: BOCA, ICBO, SBCCI NER-443; City of LA RR 25149; Dade Co. 00-0512.11 (PB44).

Model No.	Dimensions		Uplift Avg Ult	Allowable Loads			
	W	L		12-16d Nails (133 & 160)			2- ½ MB
				Uplift	F ₁	F ₂	Uplift (133 & 160)
PB44	3⅝	3¼	4267	1365	765	1325	—
PB44R	4	3¼	4267	1365	765	1325	—
PB46	5½	3¼	4267	1365	765	1325	—
PB46R	6	3¼	4267	1365	765	1325	—
PB66	5½	5¼	5143	1640	765	1325	1640
PB66R	6	5¼	5143	1640	765	1325	1640

1. Allowable loads have been increased 33% and 60% for earthquake or wind loading, with no further increase allowed.



AC/LPC/LCE POST CAPS

The LCE4's universal design provides high capacity while eliminating the need for rights and lefts.

The AC MAX design allows for higher load capacity to match comparable post bases.

LPC—Adjustable design allows greater connection versatility.

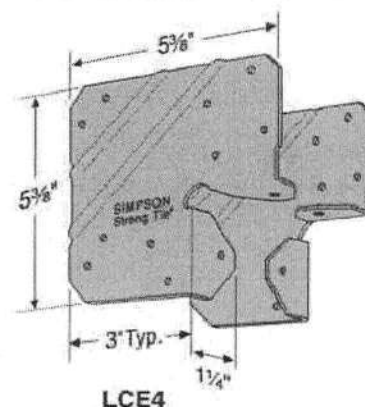
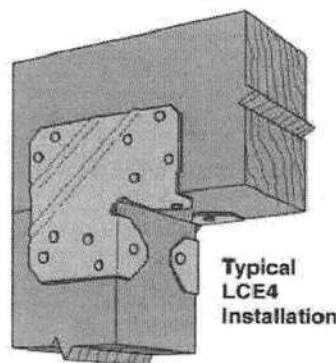
MATERIAL: LCE4—20 ga; AC, ACE, LPC4—18 ga; LPC6—16 ga

FINISH: Galvanized. Some products available with Z-MAX; see Corrosion-Resistance, page 5.

INSTALLATION: • Use all specified fasteners. See General Notes.

- Install all models in pairs. LPC—2 1/2" beams may be used if 10d x 1 1/2" nails are substituted for 10d commons.

CODES: BOCA, ICBO, SBCCI NER-421, NER-443, NER-469; City of L.A. RR 25076; Dade County, FL 99-0623.04 (LPC) and Dade County, FL 99-0713.05 (AC, ACE).



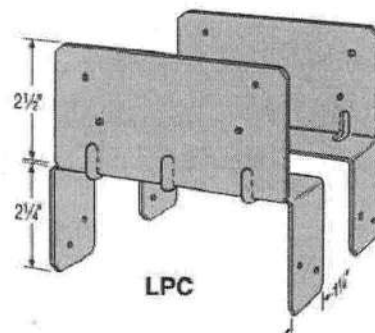
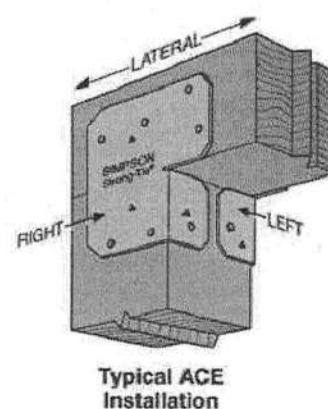
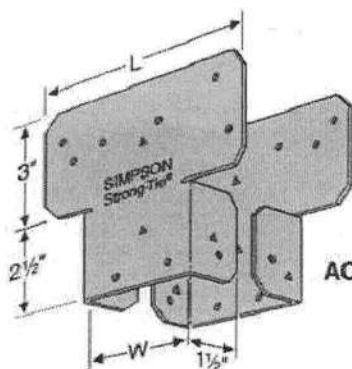
Model No.	Dimensions		Total No. Fasteners		Uplift Avg Ull	Allowable Loads (133 & 160) ¹	
	W	L	Beam	Post		Uplift	Lateral
AC4 MIN	3 1/8	6 1/2	12-16d	8-16d	4467	1430	715
AC4 MAX	3 1/8	6 1/2	14-16d	14-16d	10000	2500	1070
AC4R MIN	4	7	12-16d	8-16d	4467	1430	715
AC4R MAX	4	7	14-16d	14-16d	10000	2500	1070
ACE4 MIN	—	4 1/2	8-16d	6-16d	4215	1070	715
ACE4 MAX	—	4 1/2	10-16d	10-16d	6238	1785	1070
AC6 MIN	5 1/2	8 1/2	12-16d	8-16d	4467	1430	715
AC6 MAX	5 1/2	8 1/2	14-16d	14-16d	10000	2500	1070
AC6R MIN	6	9	12-16d	8-16d	4467	1430	715
AC6R MAX	6	9	14-16d	14-16d	10000	2500	1070
ACE6 MIN	—	6 1/2	8-16d	6-16d	4537	1070	715
ACE6 MAX	—	6 1/2	10-16d	10-16d	6432	1785	1070
LPC4	3 1/8	3 1/2	8-10d	8-10d	2333	760	325
LPC6	5 1/8	5 1/2	8-10d	8-10d	2817	915	490
LCE4	—	5 1/2	14-16d	10-16d	5518	1800	1425

1. Allowable loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce for other load durations according to the code.

2. Loads apply only when used in pairs.

3. LPC lateral load is in the direction of the beam's axis.

4. MIN nailing quantity and load values – fill all round holes; MAX nailing quantities and load values – fill round and triangle holes.



The AB is a fully-adjustable post base which offers moisture protection and finished hardware appearance.

Post Bases provide tested capacity. They feature 1" standoff height above concrete floors, code-required when supporting permanent structures that are exposed to the weather or water splash, or in basements. They reduce the potential for decay at post and column ends.

MATERIAL: AB—12 ga plates; 16 ga base cover; all others—see table.

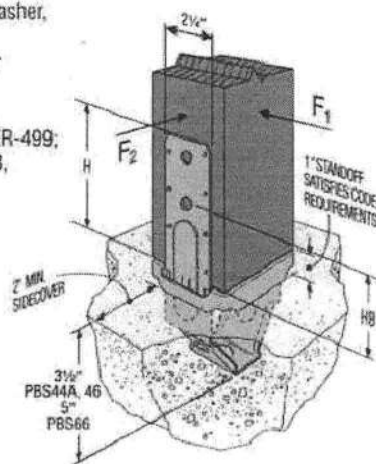
FINISH: Galvanized. Some products available in Z-MAX; see Corrosion-Resistance, page 5.

INSTALLATION: • Use all specified fasteners. See General Notes.

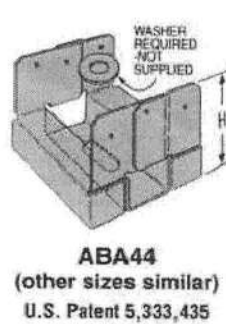
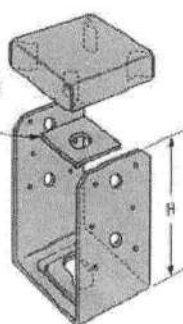
- Not recommended for non-top-supported installations such as fences.
- PBS embed into wet concrete up to the bottom of the 1" standoff base plate. A 2" minimum side cover is required to obtain the full load for PBS. Holes in the bottom of the PBS straps allow for free concrete flow.
- AB—Post nail holes are sized for 10d commons. Rectangular adjustment plate assumes 1/2" dia anchorage. Supplied as shown; position the post, secure the easy-access nut, then bend up the fourth side.
- AB, ABA, ABE and ABU—for pre-pour installed anchors. For epoxy or wedge anchors, select and install according to anchor manufacturer's recommendations; anchor diameter shown in table. Install required washer, which is not included for ABAs.
- See Simpson Anchor Systems for tested, load-rated anchors.

CODES: BOCA, ICBO, SBCCI NER-393, NER-422, NER-432, NER-469, NER-499; ICBO 5670; City of L.A. RR 24818, RR 25064, 25074, 25158; Dade Co FL 99-0713.05 (ABA, ABE), 00-0512.11 (ABU).

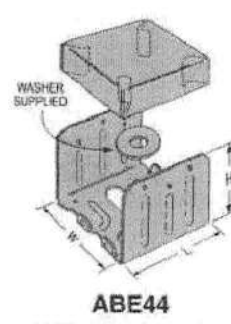
Model No.	Dimensions		Allowable Downloads (100)
	W	L	
AB44	3 $\frac{3}{8}$	3 $\frac{3}{8}$	4065
AB44R	4	4 $\frac{1}{8}$	4065
AB46	3 $\frac{3}{8}$	5 $\frac{1}{8}$	4165
AB46R	4	6	4165
AB66	5 $\frac{1}{8}$	5 $\frac{1}{8}$	5335
AB66R	6	6	5335



Typical PBS44A Installation

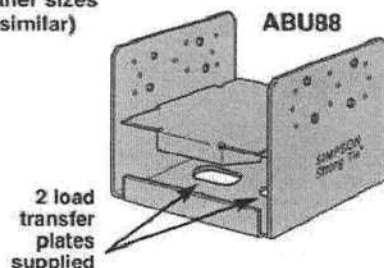


ABA44
(other sizes similar)
U.S. Patent 5,333,435

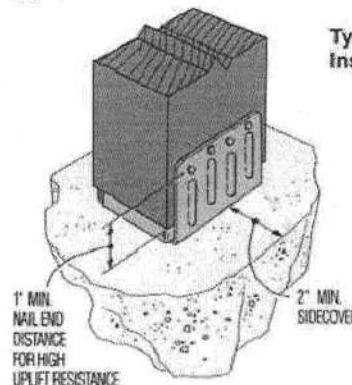


ABE44
ABE46, 46R, 66 and 66R
supplied with rectangular washer.

ABU44
(other sizes similar)

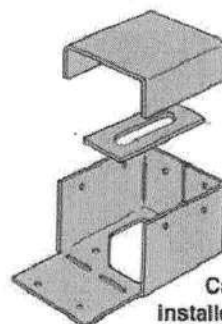


2 load transfer plates supplied



Typical ABE46R Installation for rough lumber (ABE similar)

Typical AB Installation



AB
Can be installed on existing slab

1. Loads may not be increased for short-term loading.

Model No.	Nominal Post Size	Material		Dimensions				Fasteners				Uplift Avg Ull	Allowable Loads									
		Base (Ga)	Strap (Ga)	W	L	H	HB	Anch. Dia	Post				Uplift (133)		Uplift (160)		F ₁ (133 & 160)		F ₂ (133 & 160)		Down (100)	
									Nails	Bolts Qty	Bolts Dia		Nails	Bolts	Nails	Bolts	Nails	Bolts	Nails	Bolts		
ABA44	4x4	16	16	3 3/8	3 3/8	3 3/8	—	1/2	6-10d	—	—	2120	555	—	555	—	—	—	—	—	6000	
ABE44	4x4	16	16	3 3/8	3 3/8	2 3/8	—	1/2	6-10d	—	—	1893	520	—	520	—	—	—	—	—	6665	
ABU44	4x4	16	12	3 3/8	3	5 1/8	1 3/4	3/8	12-16d	2	1/2	7833	2200	1800	2200	2160	—	—	—	—	6665	
PBS44A	4x4	12	14	3 3/8	2 1/4	6 1/8	3 3/8	—	14-16d	2	1/2	7733	2400	2400	2400	2400	1165	230	885	885	6665	
ABA44R	RGH 4x4	16	16	4 1/8	3 3/8	2 1/8	—	1/2	6-10d	—	—	2120	555	—	555	—	—	—	—	—	8000	
ABE44R	RGH 4x4	16	16	4 1/8	3 3/8	2 3/8	—	1/2	6-10d	—	—	1893	400	—	400	—	—	—	—	—	6665	
ABE46	4x6	12	16	3 3/8	5 1/8	4 1/8	—	3/8	8-16d	—	—	5167	810	—	810	—	—	—	—	—	7335	
PBS46	4x6	12	14	3 3/8	2 1/4	6 1/8	3 3/8	—	14-16d	2	1/2	7733	2400	2400	2400	2400	1165	360	885	885	9335	
ABA46	4x6	14	14	3 3/8	5 1/8	3 3/8	—	3/8	8-16d	—	—	2967	700	—	700	—	—	—	—	—	9435	
ABU46	4x6	12	12	3 3/8	5	7	2 3/8	3/8	12-16d	2	1/2	8633	2255	2300	2300	2300	—	—	—	—	10335	
ABE46R	RGH 4x6	12	16	4 1/8	5 1/8	3 3/8	—	3/8	8-16d	—	—	5167	810	—	810	—	—	—	—	—	7335	
ABA46R	RGH 4x6	14	14	4 1/8	5 1/8	2 3/8	—	3/8	8-16d	—	—	2967	935	—	935	—	—	—	—	—	12000	
PBS66	6x6	12	12	5 1/2	2 1/4	6 1/8	3 3/8	—	14-16d	2	1/2	13100	2630	3560	3160	4000	1865	570	1700	1700	9335	
ABA66	6x6	14	14	5 1/2	5 1/2	3 3/8	—	3/8	8-16d	—	—	3050	720	—	720	—	—	—	—	—	10665	
ABE66	6x6	12	14	5 1/2	5 1/8	3 3/8	—	3/8	8-16d	—	—	4833	900	—	900	—	—	—	—	—	12000	
ABU66	6x6	12	10	5 1/2	5	6 1/8	1 3/4	3/8	12-16d	2	1/2	8900	2300	2300	2300	2300	—	—	—	—	12000	
ABA66R	RGH 6x6	14	14	6	5 1/8	2 3/8	—	3/8	8-16d	—	—	3050	985	—	985	—	—	—	—	—	12665	
ABE66R	RGH 6x6	12	14	6 1/8	5 1/8	2 3/8	—	3/8	8-16d	—	—	4833	900	—	900	—	—	—	—	—	12000	
ABU88*	8x8	12	14	7 1/2	7	7	—	2 3/8	18-16d	—	—	12893	2320	—	2320	—	—	—	—	—	24335	
ABU88R*	RGH 8x8	12	14	8	7	7	—	2 3/8	18-16d	—	—	12893	2320	—	2320	—	—	—	—	—	24335	

1. Uplift and lateral loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed. Reduce by 33% and 60% for normal loading.

2. Downloads may not be increased for short-term loading.

3. Specifier to design concrete for shear capacity.

4. ABU88 and ABU88R may be installed with 8-SD5/16X3 wood screws for the same table load.

CERTIFICATE OF OCCUPANCY

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 21-3S-16-02239-002

Building permit No. 000028994

Use Classification ADDITION TO SFD

Fire: 0.00

Permit Holder OWNER BUILDER

Waste:

Owner of Building KAY GRANGER

Total: 0.00

Location: 343 NW HORIZON ST, LAKE CITY, FL 32055

Date: 08/30/2011

Kay Granger

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



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
Page 1 of 1 Document ID:1TFS8228Z0313113154

Truss Fabricator: Anderson Truss Company
Job Identification: 8-061--Fill in later GARY JOHNSON -- , **
Truss Count: 8
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.36.
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 7-02 -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

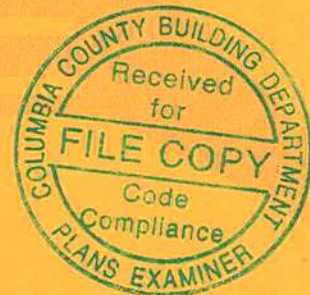
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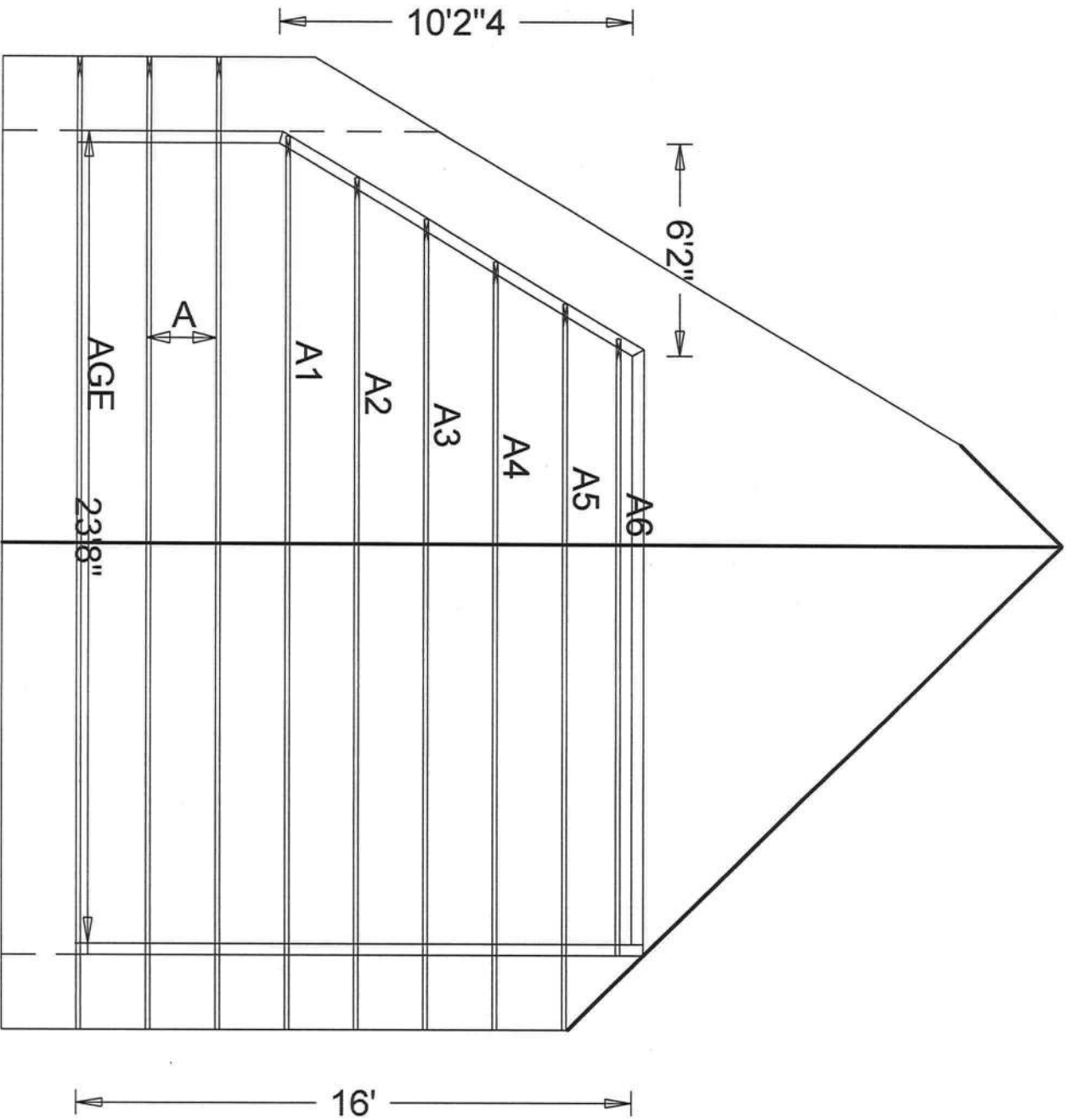
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2	76400--AGE		08073009	03/13/08
3	76401--A1		08073010	03/13/08
4	76402--A2		08073011	03/13/08
5	76403--A3		08073012	03/13/08
6	76404--A4		08073013	03/13/08
7	76405--A5		08073014	03/13/08
8	76406--A6		08073015	03/13/08

Seal Date: 03/13/2008

-Truss Design Engineer-
Walter P. Finn

Florida License Number: 22839
1950 Marley Drive
Haines City, FL 33844





#8-061 Gary Johnson / Granger House

JOB DESCRIPTION:: Fill in later
/: GARY JOHNSON

JOB NO:

8-061

PAGE NO:

1 OF 1

110 mph wind, 15.00 ft mean hgt., ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.

Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.


$$\underline{Cq/RT=1.00(1.25)/10(0)}$$

Scale = .25"/Ft.

ALPINE

ITW Building Components Group Inc.

FL Certificate of Authorization # 0079



FL/-4/-/-R/-		Scale=.25"/Ft.
TC LL	20.0 PSF	REF R8228- 76399
TC DL	10.0 PSF	DATE 03/13/08
BC DL	10.0 PSF	DRW HCUR8228 08073008
BC LL	0.0 PSF	HC-ENG DAL/AP
TOT.LD.	40.0 PSF	SEON- 29403
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFS8228Z03

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.

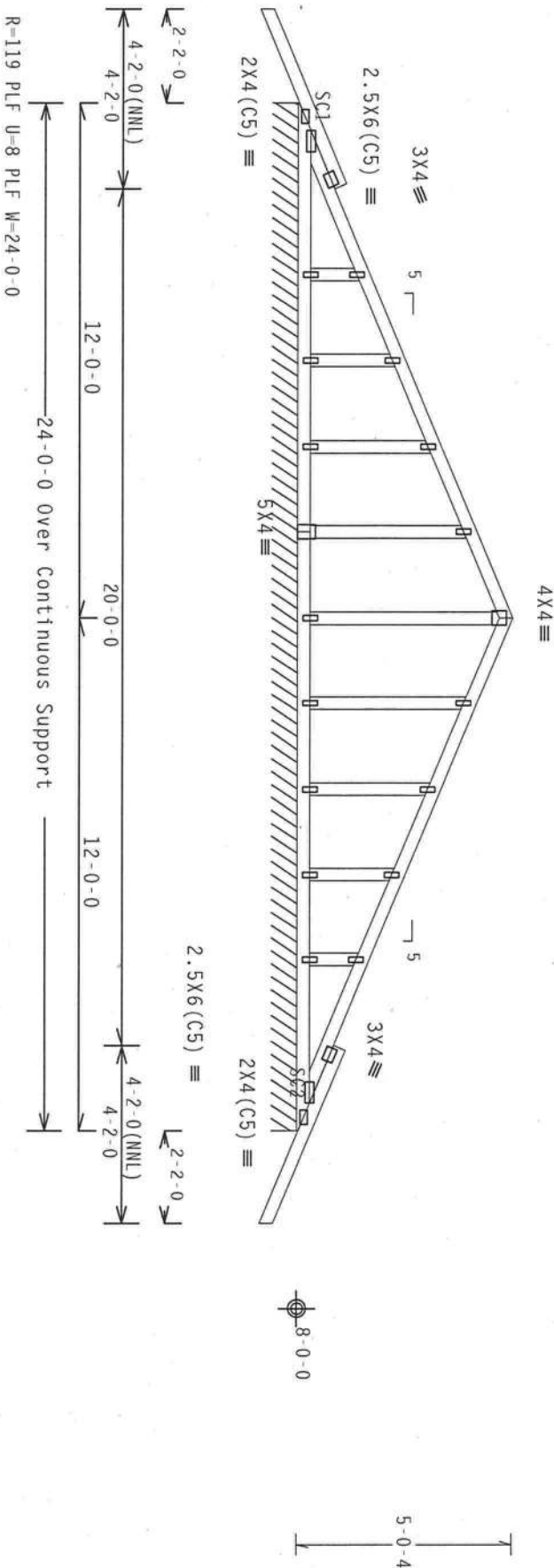
See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

Stacked top chord must NOT be notched or cut in area (NML).
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 7-02, CLOSED bldg, located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. $I_w=1.00$ $GCFI(+/-)=0.18$
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.

In lieu of structural panels use purlins to brace TC @ 24" OC.
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

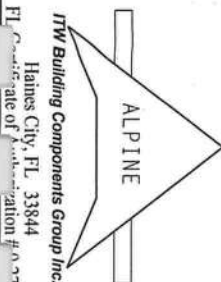
QTY:1 FL/-/4/-/-/R/- Scale=.25"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO DESI (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD PRESERVATION RESEARCH INSTITUTE, 6300
KENTWOOD DRIVE, SUITE 100, WASHINGTON, DC 20004) FOR MORE INFORMATION. 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. THE BCG, INC. SHALL NOT
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH
THIS DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 2010/1604 (4-0/55/6) ASTM A653 GRADE 40/60 (4-0/55) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.



TC LL	20.0 PSF	REF	R8228-76400
TC DL	10.0 PSF	DATE	03/13/08
BC DL	10.0 PSF	DRW	HCU8R8228 08073009
BC LL	0.0 PSF	HC-ENG	DAL/AP
TOT. LD.	40.0 PSF	SEQN-	29437
DUR. FAC.	1.25		
SPACING	24.0"		

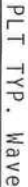
JREF-1TFS8228Z03

THE NEW FALMOUTH TOWN COMPUTER INPUT (LUNAS & WILKINSON) SUBMITTED BY IKUSI MTK.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf 1w=1.00 GCpl(+/-)=0.18

Wind reactions based on MMFRS pressures.

Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)

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

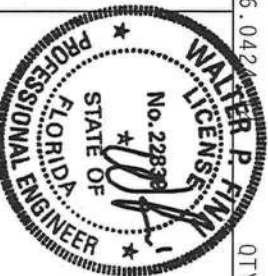
Scale = .3125"/Ft.

WARNING: THIS IS A HAZARDOUS EXISTING CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND GRADING. IT CONTAINS AN UNIDENTIFIED TOXIC SUBSTANCE WHICH MAY BE RELEASED DURING THE REMEDIATION PROCESS. REFER TO BCSI BUILDING REPAIR COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (THERMATEC INSTITUTE), 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 OR TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MIDDLESEX, NJ 08901 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. IF ANY UNDESIRABLE CONDITIONS INDICATED THAT CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ITW Building Components Group Inc.

Haines City, FL 33844

FI Certificate of Authorization # 00778



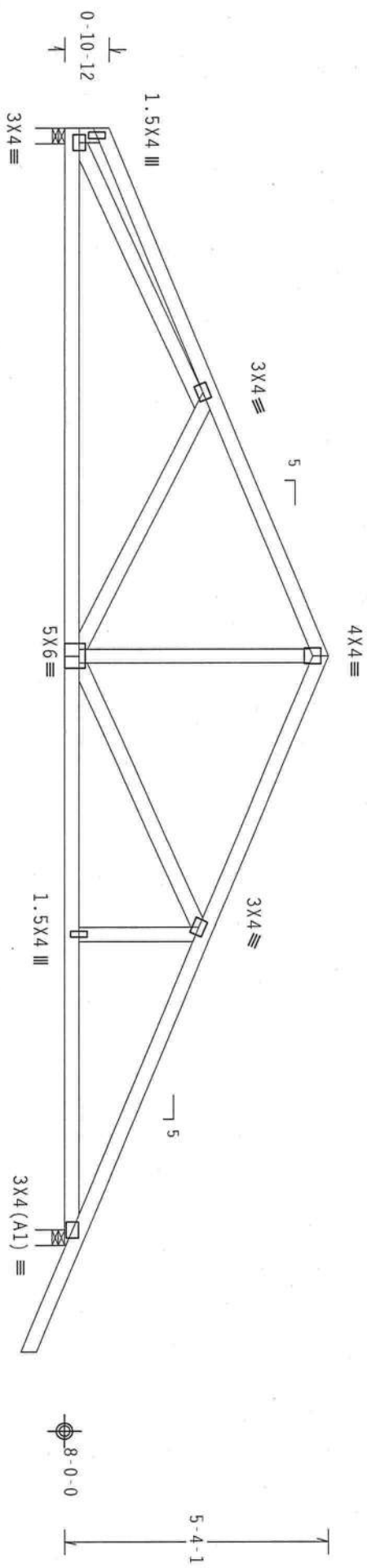
Mar 13 '08

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TC DL	10.0 PSF	DATE	03/13/08
BC DL	10.0 PSF	DRW	HCUSR8228 08073010
BC LL	0.0 PSF	HC-ENG	DAL/AP
TOT.LD.	40.0 PSF	SEQN-	29442
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1TF8228203

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. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 gcpi(+/-)=0.18
Wind reactions based on MWFRS pressures.



PLT TYP. Wave

Design Cmt: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.36.0424

QTY:1

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

Scale = .3125"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGN (BUILDING COMPONENT SAFETY INFORMATION), PROVIDED BY TPI (TRUSS PLATE INSTITUTE), 218 ENTERPRISE LANE, SUITE 100, ALABAMA CITY, AL 35310 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

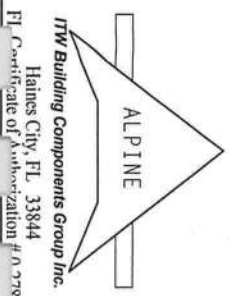
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE OF TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/ASA) AND TPI-2002 (STD). ITW BCG CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/ASA) AND TPI-2002 (STD). ITW BCG

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1004-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SIGNATURE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

BUILDING DESIGNER PER ANSI/SPRI 1 SEC. 2.

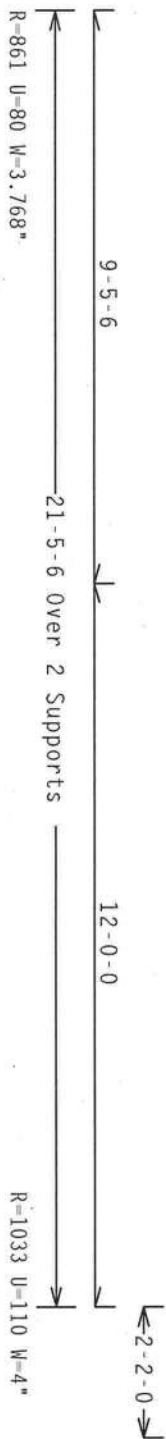


TC LL	20.0 PSF	REF	R8228- 76402
TC DL	10.0 PSF	DATE	03/13/08
BC DL	10.0 PSF	DRW	HCUSR8228 08073011
BC LL	0.0 PSF	HC-ENG	DAL/AP
TOT.LD.	40.0 PSF	SEQN-	29447
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFS8228Z03

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC, DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 gcpi(+/-)=0.18

Wind reactions based on MWRFS pressures.

Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



Scale = .3125" / Ft.

ALPINE

ITW Building Components Group Inc

Haines City, FL 33844
FL Certificate of Authorization # 0079



TC LL	20.0 PSF	REF	R8228- 76403
TC DL	10.0 PSF	DATE	03/13/08
BC DL	10.0 PSF	DRW	HCUSR8228 08073012
BC LL	0.0 PSF	HC-ENG	DAL/AP
TOT.LD.	40.0 PSF	SEQN-	29452
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFS8228Z03

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, 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. Creep increase factor for dead load is 1.50.

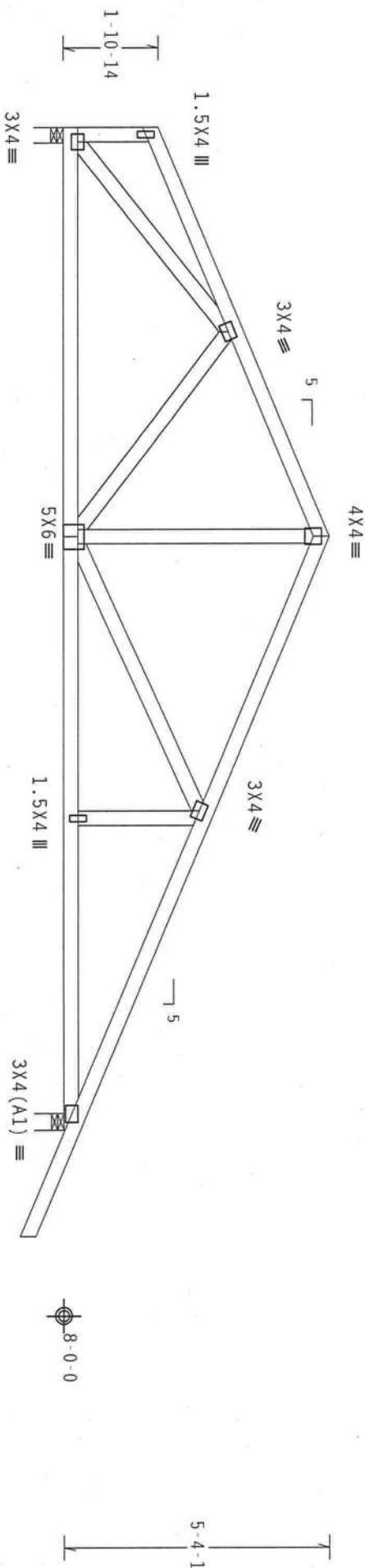


Diagram illustrating the dimensions and support locations for a beam:

- Overall length: 20'-2" (20'-2" Over 2 Supports)
- Support spacing: 8'-2" (left) and 12'-0" (right)
- End dimensions: R-812 U=76 W=3.768" (left) and R-984 U=105 W=4" (right)
- Beam profile: 2-2-0

Scale = .3125" / Ft.

WARNING—FIRE RESISTANCE REQUIREMENTS CASE IN INVESTIGATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY FBI (FEDERAL BUREAU OF INVESTIGATION), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AFCA (AMERICAN FIRE AND CASUALTY ASSOCIATION), 6500 WILLOWHURST DRIVE, SUITE 312, ALEXANDRIA, VA, 22314. FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE STRUCTURES, UNLESS OTHERWISE INDICATED, FOR CONDO SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

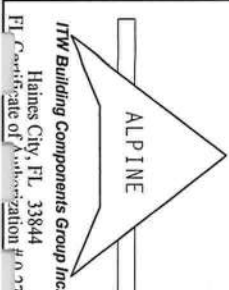
****IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT**

TP1: OR FABRICATING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION PLATES ARE MADE OF 20/18/16GA (W, H/55/K) ASIM A553 GRADE 40/50 (W, K/H, 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Haines City, FL 33844
FL Certificate of Authorization #0027



Mar 13 '08

TC LL	20.0 PSF	REF	R8228- 76404
TC DL	10.0 PSF	DATE	03/13/08
BC DL	10.0 PSF	DRW	HCUSR8228 08073013
BC LL	0.0 PSF	HC-ENG	DAL/AP
TOT.LD.	40.0 PSF	SEQN-	29458
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TFS8228Z03

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

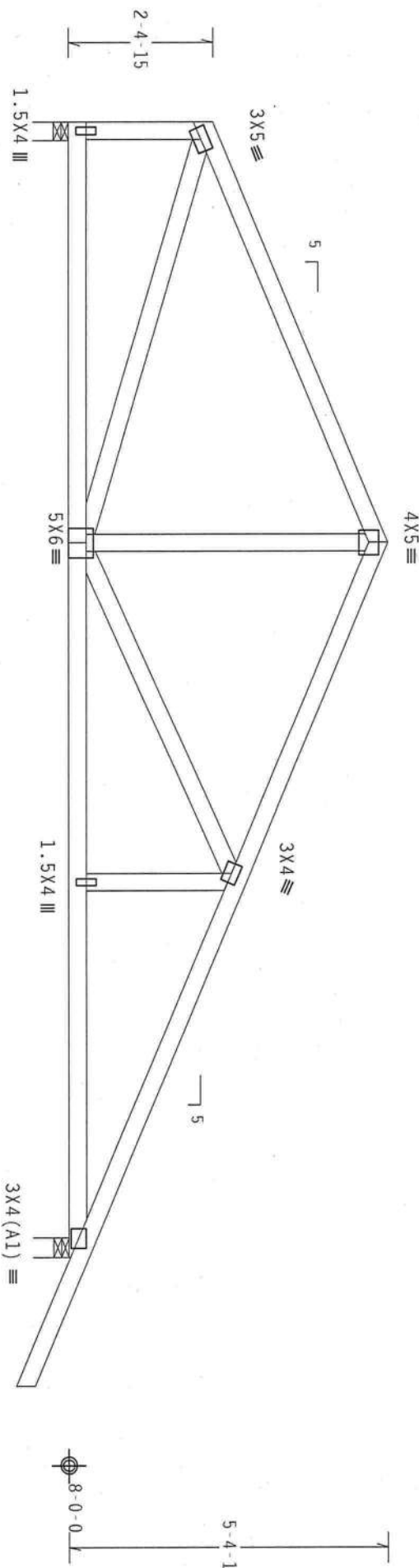
Left end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 GCPI(+/-)=0.18

Wind reactions based on MMFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



7-0-5
19-0-5 Over 2 Supports
12-0-0
2-4-15
2-4-15
R=762 U=73 W=3.768*
R=935 U=99 W=4*
2-2-0-0

PLT TYP. Wave

Design Cmt: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY: 1

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

Scale = .375"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE DESIGNER IS NOT RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE PERSONS OR PROPERTY DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS. THE DESIGNER IS NOT RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE PERSONS OR PROPERTY DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS. THE DESIGNER IS NOT RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE PERSONS OR PROPERTY DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE PERSONS OR PROPERTY DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS. THE DESIGNER IS NOT RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE PERSONS OR PROPERTY DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS. THE DESIGNER IS NOT RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE PERSONS OR PROPERTY DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE TRUSS.

ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization #0-079

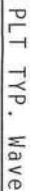


1	FL/4/-/-/R/-	Scale = .375"/Ft.
TC LL	20.0 PSF	REF R8228- 76405
TC DL	10.0 PSF	DATE 03/13/08
BC DL	10.0 PSF	DRW HCUSR8228 08073014
BC LL	0.0 PSF	HC-ENG DAL/AP
TOT.LD.	40.0 PSF	SEQN- 29464
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFS8228203

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

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

Scale = .375"/Ft.

WARNING: ALL BUILDINGS REQUIRING EXTERIOR GATE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BC61 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WPCA (WOOD PRESERVING COUNCIL OF AMERICA), 6500 MORRIS LANE, MADISON, MI 48319. FOR SAFETY PRACTICES, PLEASE TO TRANSFER THESE COORDINATES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

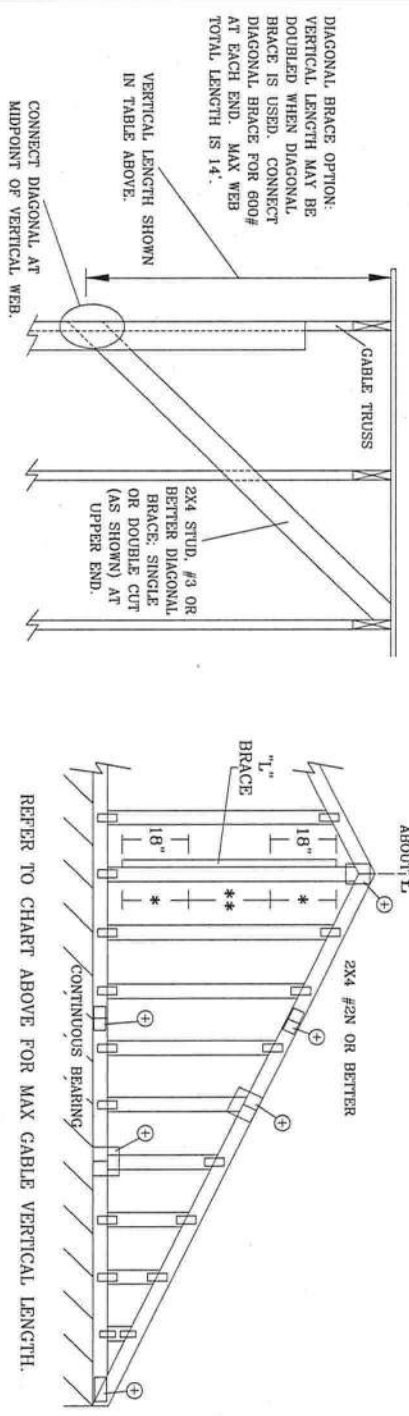
ITW Building Components Group Inc.

Haines City, FL 33844
FL Certificate of Authorization # 0078



FL/-/4/-/-/R/-		Scale = .375"/Ft.
TC LL	20.0 PSF	REF R8228- 76406
TC DL	10.0 PSF	DATE 03/13/08
BC DL	10.0 PSF	DRW HCUR8228 08073015
BC LL	0.0 PSF	HC-ENG DAL/AP *
TOT.LD.	40.0 PSF	SEQN- 29469
DUR.FAC.	1.25	
SPACING	24.0"	JRFF - 1TFS8228203

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



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

ATTACH EACH "L" BRACE WITH 10d NAILS.
 * 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 TRUSS DETAIL NOTES:
 LIVE LOAD DEFLECTION CRITERIA IS L/240.
 PROVIDE UPLIFT CONNECTIONS FOR 80 PSF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).
 GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

GROUP B:	
HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

GROUP A:	
SPRUCE-PINE-FIR	HEM-FIR
#1 / #2	#2
STANDARD	STUD
#3	#3
STANDARD	STANDARD



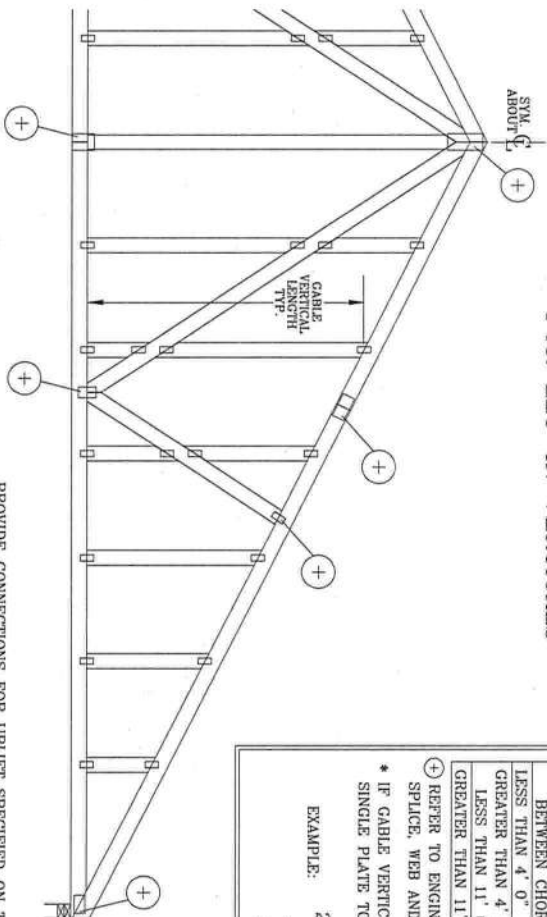
ITW BUILDING COMPONENTS GROUP, INC.
 POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, HADISON, VA 22149 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 COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATING FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PAI AND TPI, INC. BEG CONNECTOR PLATES ARE MADE OF 2018/1664 (V4/H/S/S) ASTM A653 GRADE 40/60 (V4/H/S/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, IN THIS PER DESIGN, TOP PLATES SHALL BE 16d. ANY INSPECTION OF INDICES DIRECTED BY A QUALIFIED PERSON FOR ENGINEERING RESPONSIBILITY SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



REF	ASCE7-02-CB11015
DATE	2/23/07
DRWG	A11015EEO207
ENG	
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

CABLE DETAIL FOR LET-IN VERTICALS



CABLE VERTICAL PLATE SIZES

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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

* IF CABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

HAND DRIVEN NAILS:

10d COMMON (0.148" X 3.3" MIN) TOENAILS AT 4" O.C. PLUS

(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 CABLE DETAIL, DRAWINGS

A11015EN0207, A10015EN0207, A09030EN0207, A08030EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207

ASCE 7-98 CABLE DETAIL, DRAWINGS

A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A09015EC0207, A08015EC0207, A07015EC0207, A11030EC0207, A10030EC0207, A09030EC0207, A08030EC0207, A07030EC0207

ASCE 7-02 CABLE DETAIL, DRAWINGS

A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A09015EC0207, A08015EC0207, A07015EC0207, A11030EC0207, A10030EC0207, A09030EC0207, A08030EC0207, A07030EC0207

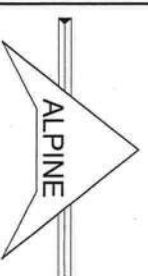
ASCE 7-05 CABLE DETAIL, DRAWINGS

A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A09015EC0207, A08015EC0207, A07015EC0207, A11030EC0207, A10030EC0207, A09030EC0207, A08030EC0207, A07030EC0207

SEE APPROPRIATE ALPINE CABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED CABLE

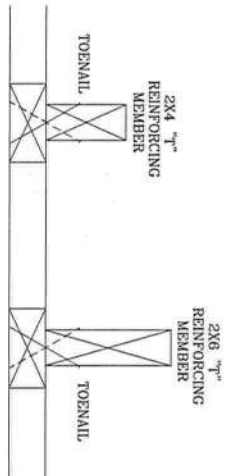
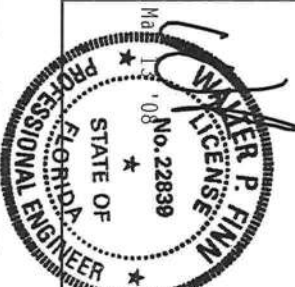
VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117, 876.719 & HC26294035



ITW BUILDING COMPONENTS GROUP, INC.
POMPAHO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING REFERENCES FOR ADDITIONAL INFORMATION: AISC 360, AISC 358, AISC 308, AISC 305, AISC 304, AISC 303, AISC 302, AISC 301, AISC 300, AISC 299, AISC 298, AISC 297, AISC 296, AISC 295, AISC 294, AISC 293, AISC 292, AISC 291, AISC 290, AISC 289, AISC 288, AISC 287, AISC 286, AISC 285, AISC 284, AISC 283, AISC 282, AISC 281, AISC 280, AISC 279, AISC 278, AISC 277, AISC 276, AISC 275, AISC 274, AISC 273, AISC 272, AISC 271, AISC 270, AISC 269, AISC 268, AISC 267, AISC 266, AISC 265, AISC 264, AISC 263, AISC 262, AISC 261, AISC 260, AISC 259, AISC 258, AISC 257, AISC 256, AISC 255, AISC 254, AISC 253, AISC 252, AISC 251, AISC 250, AISC 249, AISC 248, AISC 247, AISC 246, AISC 245, AISC 244, AISC 243, AISC 242, AISC 241, AISC 240, AISC 239, AISC 238, AISC 237, AISC 236, AISC 235, AISC 234, AISC 233, AISC 232, AISC 231, AISC 230, AISC 229, AISC 228, AISC 227, AISC 226, AISC 225, AISC 224, AISC 223, AISC 222, AISC 221, AISC 220, AISC 219, AISC 218, AISC 217, AISC 216, AISC 215, AISC 214, AISC 213, AISC 212, AISC 211, AISC 210, AISC 209, AISC 208, AISC 207, AISC 206, AISC 205, AISC 204, AISC 203, AISC 202, AISC 201, AISC 200, AISC 199, AISC 198, AISC 197, AISC 196, AISC 195, AISC 194, AISC 193, AISC 192, AISC 191, AISC 190, AISC 189, AISC 188, AISC 187, AISC 186, AISC 185, AISC 184, AISC 183, AISC 182, AISC 181, AISC 180, AISC 179, AISC 178, AISC 177, AISC 176, AISC 175, AISC 174, AISC 173, AISC 172, AISC 171, AISC 170, AISC 169, AISC 168, AISC 167, AISC 166, AISC 165, AISC 164, AISC 163, AISC 162, AISC 161, AISC 160, AISC 159, AISC 158, AISC 157, AISC 156, AISC 155, AISC 154, AISC 153, AISC 152, AISC 151, AISC 150, AISC 149, AISC 148, AISC 147, AISC 146, AISC 145, AISC 144, AISC 143, AISC 142, AISC 141, AISC 140, AISC 139, AISC 138, AISC 137, AISC 136, AISC 135, AISC 134, AISC 133, AISC 132, AISC 131, AISC 130, AISC 129, AISC 128, AISC 127, AISC 126, AISC 125, AISC 124, AISC 123, AISC 122, AISC 121, AISC 120, AISC 119, AISC 118, AISC 117, AISC 116, AISC 115, AISC 114, AISC 113, AISC 112, AISC 111, AISC 110, AISC 109, AISC 108, AISC 107, AISC 106, AISC 105, AISC 104, AISC 103, AISC 102, AISC 101, AISC 100, AISC 99, AISC 98, AISC 97, AISC 96, AISC 95, AISC 94, AISC 93, AISC 92, AISC 91, AISC 90, AISC 89, AISC 88, AISC 87, AISC 86, AISC 85, AISC 84, AISC 83, AISC 82, AISC 81, AISC 80, AISC 79, AISC 78, AISC 77, AISC 76, AISC 75, AISC 74, AISC 73, AISC 72, AISC 71, AISC 70, AISC 69, AISC 68, AISC 67, AISC 66, AISC 65, AISC 64, AISC 63, AISC 62, AISC 61, AISC 60, AISC 59, AISC 58, AISC 57, AISC 56, AISC 55, AISC 54, AISC 53, AISC 52, AISC 51, AISC 50, AISC 49, AISC 48, AISC 47, AISC 46, AISC 45, AISC 44, AISC 43, AISC 42, AISC 41, AISC 40, AISC 39, AISC 38, AISC 37, AISC 36, AISC 35, AISC 34, AISC 33, AISC 32, AISC 31, AISC 30, AISC 29, AISC 28, AISC 27, AISC 26, AISC 25, AISC 24, AISC 23, AISC 22, AISC 21, AISC 20, AISC 19, AISC 18, AISC 17, AISC 16, AISC 15, AISC 14, AISC 13, AISC 12, AISC 11, AISC 10, AISC 9, AISC 8, AISC 7, AISC 6, AISC 5, AISC 4, AISC 3, AISC 2, AISC 1.



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON CABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRR	"T" REINFORCING MEMBER SIZE	SBCCI	ASCE
110 MPH	2x4	10%	10%
115 MPH	2x6	40%	50%
110 MPH	2x4	10%	10%
110 MPH	2x6	50%	50%
100 MPH	2x4	10%	10%
100 MPH	2x6	30%	50%
100 MPH	2x4	10%	10%
100 MPH	2x6	40%	40%
90 MPH	2x4	20%	10%
90 MPH	2x6	20%	40%
15 FT	2x6	10%	10%
90 MPH	2x4	10%	10%
90 MPH	2x6	30%	50%
80 MPH	2x4	10%	10%
80 MPH	2x6	10%	20%
15 FT	2x6	10%	10%
80 MPH	2x4	20%	10%
80 MPH	2x6	20%	40%
30 FT	2x6	0%	20%
70 MPH	2x4	0%	20%
15 FT	2x6	0%	20%
70 MPH	2x4	10%	20%
30 FT	2x6	10%	30%

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

CABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

"L" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "L" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED CABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"

MAX TOT. LD. 60 PSF	REF	LET-IN VERT
DUR. FAC. ANY	DATE	2/23/07
MAX SPACING 24.0"	DRWG	GBLETTINO207
	-ENG	DJL/KAR