

DATE 11/01/2010

Columbia County Building Permit  
This Permit Must Be Prominently Posted on Premises During Construction

PERMIT  
000028973

APPLICANT JOSH SPARKS PHONE 755-9314  
ADDRESS 202 W DUVAL STREET LAKE CITY FL 32055  
OWNER BEN SPARKS PHONE 758-9219  
ADDRESS 100 SW COUNTRY COURT LAKE CITY FL 32024  
CONTRACTOR JOSH SPARKS PHONE 755-9314

LOCATION OF PROPERTY 47 S, L 240, R BUTZER ROAD, L WILLIAM YOUNG, THEN  
1ST ON LEFT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 98750.00

HEATED FLOOR AREA 1418.00 TOTAL AREA 1975.00 HEIGHT 27.00 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 12/12 FLOOR SLAB

LAND USE & ZONING AG-3 MAX. HEIGHT 35

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

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 11-5S-16-03578-002 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 1.98

CBC1252260  
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

EXISTING 10-0443-N BK TC N  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD

NOC ON FILE

Check # or Cash 5908

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 \$ 495.00 CERTIFICATION FEE \$ 9.88 SURCHARGE FEE \$ 9.88

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

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 589.76

INSPECTORS OFFICE CLERKS OFFICE

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.

28973

## COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

### Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 12/1/2011      DATE ISSUED: 12/8/2011

#### ENHANCED 9-1-1 ADDRESS:

131      SW      COUNTRY      CT

LAKE CITY      FL      32024

#### PROPERTY APPRAISER PARCEL NUMBER:

11-5S-16-03578-002

#### Remarks:

ADDRESS FOR STRUCTURE ON PARCEL.

Address Issued By: SIGNED: / RONAL N. CROFT  
Columbia County 9-1-1 Addressing / GIS Department

**NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.**

2137

Ben Sparks

Columbia County Building Permit Application

OK# 5908

**For Office Use Only** Application # 1010-23 Date Received 10/13/10 By CH Permit # 28973  
 Zoning Official B2K Date 10-10 Flood Zone X Land Use A-3 Zoning A-3  
 FEMA Map # N/A Elevation N/A MFE 1' above rd River N/A Plans Examiner T.C. Date 10/18/10  
 Comments \_\_\_\_\_  
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # \_\_\_\_\_  
☐ Dev Permit # \_\_\_\_\_ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter \_\_\_\_\_  
 IMPACT FEES: EMS \_\_\_\_\_ Fire \_\_\_\_\_ Corr \_\_\_\_\_ Road/Code \_\_\_\_\_  
 School \_\_\_\_\_ = TOTAL N/A Suspended Well letter AV form

Septic Permit No. 10-0443-N Fax 386-755-7156

Name Authorized Person Signing Permit Josh Sparks Phone 386-755-9314

Address 202 W Duval St Lake City FL 32055

Owners Name Ben Sparks Phone 386-758-9219

911 Address 100 SW County Ct Lake City FL 32024

Contractors Name Josh Sparks Phone 386-755-9314

Address 202 W Duval St Lake City FL 32055

Fee Simple Owner Name & Address \_\_\_\_\_

Bonding Co. Name & Address \_\_\_\_\_

Architect/Engineer Name & Address Mark Disarway 1635 W Midtown Place Lake City

Mortgage Lenders Name & Address USDA 971 W Duval St # 190 Lake City FL

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

Property ID Number 11-55-16-03978-002 Estimated Cost of Construction 123,000

Subdivision Name NA Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions South Hwy 47 Lt onto Cr 249 Rt onto Butzer rd

Lt onto William Young Lt into jobsite at sign

Number of Existing Dwellings on Property 0

Construction of New home Total Acreage 1.975 Lot Size \_\_\_\_\_

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 27'

Actual Distance of Structure from Property Lines - Front 130 Side 130 Side \_\_\_\_\_ Rear \_\_\_\_\_

Number of Stories 1 Heated Floor Area 1418 Total Floor Area 1975 Roof Pitch 12/12

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

- BK sparkw/ Josh 10.21.10 : Ref: Proof of Ag on Ben

## 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

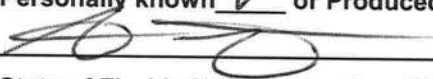
**\*\*OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

**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.

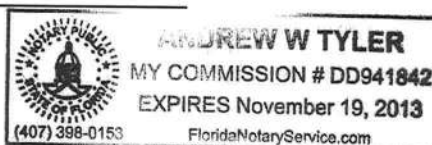
  
Contractor's Signature (Permitee)

Contractor's License Number CBC1252260  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 13 day of October 2010.  
Personally known ☒ or Produced Identification \_\_\_\_\_

  
State of Florida Notary Signature (For the Contractor)

SEAL:



## SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER

1610-23

CONTRACTOR

Josh Sparks

PHONE

755-9314

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.

|                               |                                                                   |                                                                  |
|-------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| <b>ELECTRICAL</b><br>724      | Print Name <u>Lyndon Rainbolt</u><br>License #: <u>EC13001835</u> | Signature <u>Lyndon Rainbolt</u><br>Phone #: <u>386-867-1004</u> |
| <b>MECHANICAL/A/C</b><br>A-38 | Print Name <u>Lamar Bozer</u><br>License #: <u>RA0035027</u>      | Signature <u>Lamar Bozer</u><br>Phone #: <u>623-0109</u>         |
| <b>PLUMBING/GAS</b><br>623    | Print Name <u>Mark Sankton</u><br>License #: <u>CFL1428040</u>    | Signature <u>Mark Sankton</u><br>Phone #: <u>438-5604</u>        |
| <b>ROOFING</b><br>813         | Print Name <u>Rolph Laverdure</u><br>License #: <u>CCC1328590</u> | Signature <u>Rolph Laverdure</u><br>Phone #: <u>623-0176</u>     |
| <b>SHEET METAL</b>            | Print Name _____<br>License #: _____                              | Signature _____<br>Phone #: _____                                |
| <b>FIRE SYSTEM/SPRINKLER</b>  | Print Name _____<br>License #: _____                              | Signature _____<br>Phone #: _____                                |
| <b>SOLAR</b>                  | Print Name _____<br>License #: _____                              | Signature _____<br>Phone #: _____                                |

| Specialty License  | License Number | Sub-Contractors Printed Name | Sub-Contractors Signature |
|--------------------|----------------|------------------------------|---------------------------|
| MASON              | 000720         | Donald Roberts               | <u>Donald Roberts</u>     |
| CONCRETE FINISHER  | 000048         | BEN LOFSTROM                 | <u>Ben Lofstrom</u>       |
| FRAMING 532        | CBC1252260     | Sparks Construction          | <u>Josh Sparks</u>        |
| INSULATION         | 628            | Bobby Jackson                | <u>Bobby D Jackson</u>    |
| STUCCO             |                | Sparks Const                 | <u>Josh Sparks</u>        |
| DRYWALL            | 627            | Bobby Jackson                | <u>Bobby D Jackson</u>    |
| PLASTER N/A        |                |                              |                           |
| CABINET INSTALLER  | CBC1252260     | Sparks Construction          | <u>Josh Sparks</u>        |
| PAINTING           | CBC1252260     | Josh Sparks                  | <u>Josh Sparks</u>        |
| ACOUSTICAL CEILING |                |                              |                           |
| GLASS              |                |                              |                           |
| CERAMIC TILE       | CBC1252260     | Josh Sparks                  | <u>Josh Sparks</u>        |
| FLOOR COVERING     | CBC1252260     | Josh Sparks                  | <u>Josh Sparks</u>        |
| ALUM/VINYL SIDING  | N/A            |                              |                           |
| GARAGE DOOR        | N/A            |                              |                           |
| METAL BLDG ERECTOR | N/A            |                              |                           |

**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  
Phone: 386-758-1008 Fax: 386-758-2160

**LICENSED QUALIFIER AUTHORIZATION**

I, Patsy Bowen (license holder name), licensed qualifier for SUNCOAST INSULATORS & SPECIALTIES (company name), do certify that the below referenced person(s) listed on this form is/are contracted/hired by me, the license holder, or is/are employed by me directly or through an employee leasing arrangement; or, is an officer of the corporation; or, partner as defined in Florida Statutes Chapter 408, and the said person(s) is/are under my direct supervision and control and is/are authorized to purchase and sign permits; call for inspections and sign subcontractor verification forms on my behalf.

| Printed Name of Person Authorized | Signature of Authorized Person |
|-----------------------------------|--------------------------------|
| 1. John Morris                    | 1. John Morris                 |
| 2. Mike D'ANDREA                  | 2. Mike D'Andrea               |
| 3. Gary Cornell                   | 3. Gary Cornell                |
| 4.                                | 4.                             |
| 5.                                | 5.                             |

I, the license holder, realize that I am responsible for all permits purchased, and all work done under my license and fully responsible for compliance with all Florida Statutes, Codes, and Local Ordinances. I understand that the State and County Licensing Boards have the power and authority to discipline a license holder for violations committed by him/her, his/her agents, officers, or employees and that I have full responsibility for compliance with all statutes, codes and ordinances inherent in the privilege granted by issuance of such permits.

If at any time the person(s) you have authorized is/are no longer agents, employees(s), or officer(s), you must notify this department in writing of the changes and submit a new letter of authorization form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to use your name and/or license number to obtain permits.

Patsy Bowen  
Licensed Qualifiers Signature (Notarized)

000741  
License Number

6-23-2010  
Date

**NOTARY INFORMATION:**

STATE OF: FLORIDA COUNTY OF: MARION

The above license holder, whose name is Patsy Bowen, personally appeared before me and is known by me or has produced identification (type of I.D.) \_\_\_\_\_ on this 23 day of JUNE, 2010.

David B. Gooch  
NOTARY'S SIGNATURE

(Seal/Stamp)



DAVID B. GOOCH  
NOTARY PUBLIC  
STATE OF FLORIDA  
Comm# 0000401  
Expires 4/27/2014

This Instrument Prepared By & Return To:  
 Matthew D. Rocco  
 Sierra Title, LLC  
 419 SW SR 247, Ste 109  
 Lake City, FL 32025  
 Permit Number:  
 Tax Folio Number: R03390-003  
 State of: Florida  
 County of: Columbia  
 File Number: 10-0619

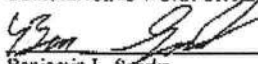
Inst. 201012016417 Date: 10/12/2010 Time: 4:07 PM  
 DC, P DeWitt, Casson, Columbia County Page 1 of 1 B-1202 P-2392

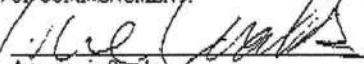
## NOTICE OF COMMENCEMENT

The undersigned hereby gives notice that improvement will be made to certain real property, and, in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. **Description of Property:**  
 Commence at the Southeast corner of the NE 1/4 of the NW 1/4 of the SW 1/4 of Section 11, Township 5 South, Range 16 East, Columbia County, Florida, thence N 01 deg. 32'39" W, along the East line of said NE 1/4 of the NW 1/4 of the SW 1/4 a distance of 25.01 feet to the intersection with the Northerly right of way of "Young Road" a 50.0 foot wide right of way; thence S 87 deg. 10'02" W, along the Northerly right of way of said "Young Road", a distance of 683.63 feet for a Point of Beginning; thence continue S 87 deg. 10'02" W, along said Northerly right of way 294.38 feet; thence N 01 deg. 30'28" W, 292.25 feet; thence N 87 deg. 10'02" E, 294.40 feet; thence S 01 deg. 32'39" E, a distance of 292.17 feet to the Point of Beginning. Being and lying in the Southwest 1/4 of Section 11, Township 5 South, Range 16 East.
2. **General Description of Improvements:** Construction of single family residence
3. **Owner Information:**
  - a. Name and Address: Benjamin L. Sparks & Annemarie Sparks, PO Box 3819, Lake City, FL 32056
  - b. Interest in property: Fee Simple
  - c. Names and address of fee simple title holder (if other than owner):
4. **Contractor:** Sparks Construction
5. **Surety:**
6. **Lender:** USDA Rural Development, 971 W Duval ST Ste 190, Lake City, Florida 32055
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes.
8. In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
9. **Expiration date of Notice of Commencement** (the expiration date is 1 year from date of recording unless a different date is specified):

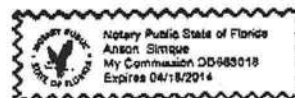
**WARNING TO OWNER:** ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

  
 Benjamin L. Sparks

  
 Annemarie Sparks

Sworn to and subscribed before me September 30, 2010 by Benjamin L. Sparks and Annemarie Sparks who is personally known to me or who did provide \_\_\_\_\_ as identification.

  
 Notary Public  
 My Commission Expires: \_\_\_\_\_



### 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.

  
 Signature of Notary Public Signing Above

Prepared by & Return to:  
Anson Simque  
Sierra Title, LLC  
419 SW SR 247, Suite 109  
Lake City, Florida 32025

File Number: 10-0619

Inst: 201012016413 Date: 10/12/2010 Time: 4:07 PM

Doc Stamp-Deed: 0.70

DC, P DeWitt Cason, Columbia County Page 1 of 2 8-1202 P: 2378

### General Warranty Deed

Made this September 30, 2010 A.D. By Patrick F. Sparks, a married man, hereinafter called the grantor, to Benjamin L. Sparks and his wife, Annemarie Sparks, whose post office address is: PO Box 3819, Lake City, FL 32056, hereinafter called the grantee:

(Whoever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, alien, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

See Attached Schedule "A"

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: R03390-003

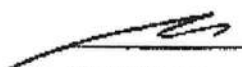
Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

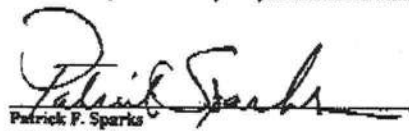
To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2009.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

  
Witness Printed Name **Matthew D. Rocco**

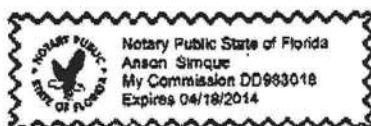
 (Seal)  
Patrick F. Sparks  
Address:

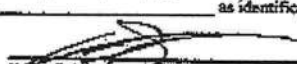
  
Witness Printed Name **Anson Simque**

\_\_\_\_\_  
(Seal)  
Address:

State of Florida  
County of Columbia

The foregoing instrument was acknowledged before me this 30th day of September, 2010, by Patrick F. Sparks who is/are personally known to me or who has produced \_\_\_\_\_ as identification.



  
Notary Public  
Print Name: **Anson Simque**  
My Commission Expires: \_\_\_\_\_

Prepared by & Return to:  
Anson Sique  
Sierra Title, LLC  
419 SW SR 247, Suite 109  
Lake City, Florida 32025

File Number: 10-0619

#### Schedule "A"

Commence at the Southeast corner of the NE 1/4 of the NW 1/4 of the SW 1/4 of Section 11, Township 5 South, Range 16 East, Columbia County, Florida, thence N 01 deg. 32'39" W, along the East line of said NE 1/4 of the NW 1/4 of the SW 1/4 a distance of 25.01 feet to the intersection with the Northerly right of way of "Young Road" a 50.0 foot wide right of way; thence S 87 deg. 10'02" W, along the Northerly right of way of said "Young Road", a distance of 683.63 feet for a Point of Beginning; thence continue S 87 deg. 10'02" W, along said Northerly right of way 294.38 feet; thence N 01 deg. 30'28" W, 292.25 feet; thence N 87 deg. 10'02" E, 294.40 feet; thence S 01 deg. 32'39" E, a distance of 292.17 feet to the Point of Beginning. Being and lying in the Southwest 1/4 of Section 11, Township 5 South, Range 16 East.

BK 0908 PG 2093

THIS INSTRUMENT WAS PREPARED BY OFFICIAL RECORDS

TERRY McDAVID 00-416  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

00-14315

FILED AND RECORDED IN PUBLIC  
RECORDS OF COLUMBIA COUNTY, FL

'00 AUG 17 AM 11:48

RETURN TO:

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

Documentary Stamp 70  
Intangible Tax 2  
P. DeWitt Cason  
Clerk of Court  
By mk D.C.

Grantee #1 S.S. No.

Property Appraiser's  
Identification Number Part of 11-5S-                    

#### WARRANTY DEED

THIS INDENTURE, made this 8<sup>th</sup> day of August, 2000, BETWEEN LUKE M. SPARKS and SHEILA M. SPARKS, Husband and Wife whose post office address is Post Office Box 1411, Lake City, FL 32056, of the County of Columbia, State of Florida, grantor\*, and PATRICK F. SPARKS as Custodian for BENJAMIN L. SPARKS, under Florida Uniform Transfer to Minors Act, whose post office address is Post Office Box 3758, Lake City, FL 32056, of the County of Columbia, State of Florida, grantee\*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

SEE EXHIBIT "A" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

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

\*"Grantor" and "grantee" are used for singular or plural, as context requires.

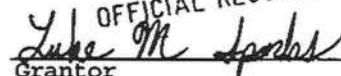
IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered  
in our presence:

  
(Signature of First Witness)  
Terry McDavid  
(Typed Name of First Witness)

  
(Signature of Second Witness)  
Crystal L. Brunner  
(Typed Name of Second Witness)

BK 0908 PG2094

OFFICIAL RECORDS  
 (SEAL)  
Grantor  
LUKE M. SPARKS  
Printed Name

 (SEAL)  
Grantor  
SHEILA M. SPARKS  
Printed Name

STATE OF Florida  
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 8th day of August, 2000, by LUKE M. SPARKS and SHEILA M. SPARKS, Husband and Wife who are personally known to me or who have produced \_\_\_\_\_ as identification and who did not take an oath.

My Commission Expires:

  
Notary Public Terry McDavid  
Printed, typed, or stamped name:



ATTN: Brian Kepner  
Ben Sparks Residence



# Columbia County Property Appraiser

DB Last Updated: 8/5/2010

2009 Tax Roll Year

Parcel: 11-5S-16-03578-002

&lt;&lt; Next Lower Parcel Next Higher Parcel &gt;&gt;

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

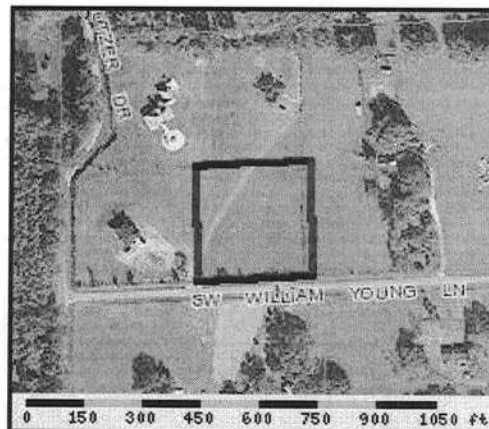
Interactive GIS Map

Print

## Owner & Property Info

Search Result: 1 of 1

|                         |                                                                                                                                                                                                                                                                                                                          |                     |       |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|
| <b>Owner's Name</b>     | SPARKS PATRICK F CUSTODIAN                                                                                                                                                                                                                                                                                               |                     |       |
| <b>Mailing Address</b>  | FOR BENJAMIN L SPARKS<br>P O BX 3758<br>LAKE CITY, FL 32056                                                                                                                                                                                                                                                              |                     |       |
| <b>Site Address</b>     | 100 SW COUNTRY CT                                                                                                                                                                                                                                                                                                        |                     |       |
| <b>Use Desc. (code)</b> | VACANT (000000)                                                                                                                                                                                                                                                                                                          |                     |       |
| <b>Tax District</b>     | 3 (County)                                                                                                                                                                                                                                                                                                               | <b>Neighborhood</b> | 11516 |
| <b>Land Area</b>        | 1.975 ACRES                                                                                                                                                                                                                                                                                                              | <b>Market Area</b>  | 01    |
| <b>Description</b>      | NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.<br><br>COMM SE COR OF NE1/4 OF NW1/4 OF SW1/4, RUN N 25.01 FT TO N R/W YOUNG RD, W ALONG R/W 683.63 FT FOR POB, CONT W 294.38 FT, N 292.25 FT, E 294.40 FT, S 292.17 FT TO POB. ORB 860-726, 908-2087, 2093, |                     |       |



## Property & Assessment Values

| 2009 Certified Values        |                                                    |             |
|------------------------------|----------------------------------------------------|-------------|
| <b>Mkt Land Value</b>        | cnt: (0)                                           | \$26,342.00 |
| <b>Ag Land Value</b>         | cnt: (1)                                           | \$0.00      |
| <b>Building Value</b>        | cnt: (0)                                           | \$0.00      |
| <b>XFOB Value</b>            | cnt: (0)                                           | \$0.00      |
| <b>Total Appraised Value</b> |                                                    | \$26,342.00 |
| <b>Just Value</b>            |                                                    | \$26,342.00 |
| <b>Class Value</b>           |                                                    | \$0.00      |
| <b>Assessed Value</b>        |                                                    | \$26,342.00 |
| <b>Exempt Value</b>          |                                                    | \$0.00      |
| <b>Total Taxable Value</b>   | Cnty: \$26,342<br>Other: \$26,342   Schl: \$26,342 |             |

## 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 |
|-----------|--------------|---------|-------------------|----------------|------------|------------|
| 8/8/2000  | 908/2093     | WD      | V                 | U              | 01         | \$100.00   |

## Building Characteristics

| Bldg Item | Bldg Desc | Year Blt | Ext. Walls | Heated S.F. | Actual S.F. | Bldg Value |
|-----------|-----------|----------|------------|-------------|-------------|------------|
| NONE      |           |          |            |             |             |            |

## Extra Features & Out Buildings

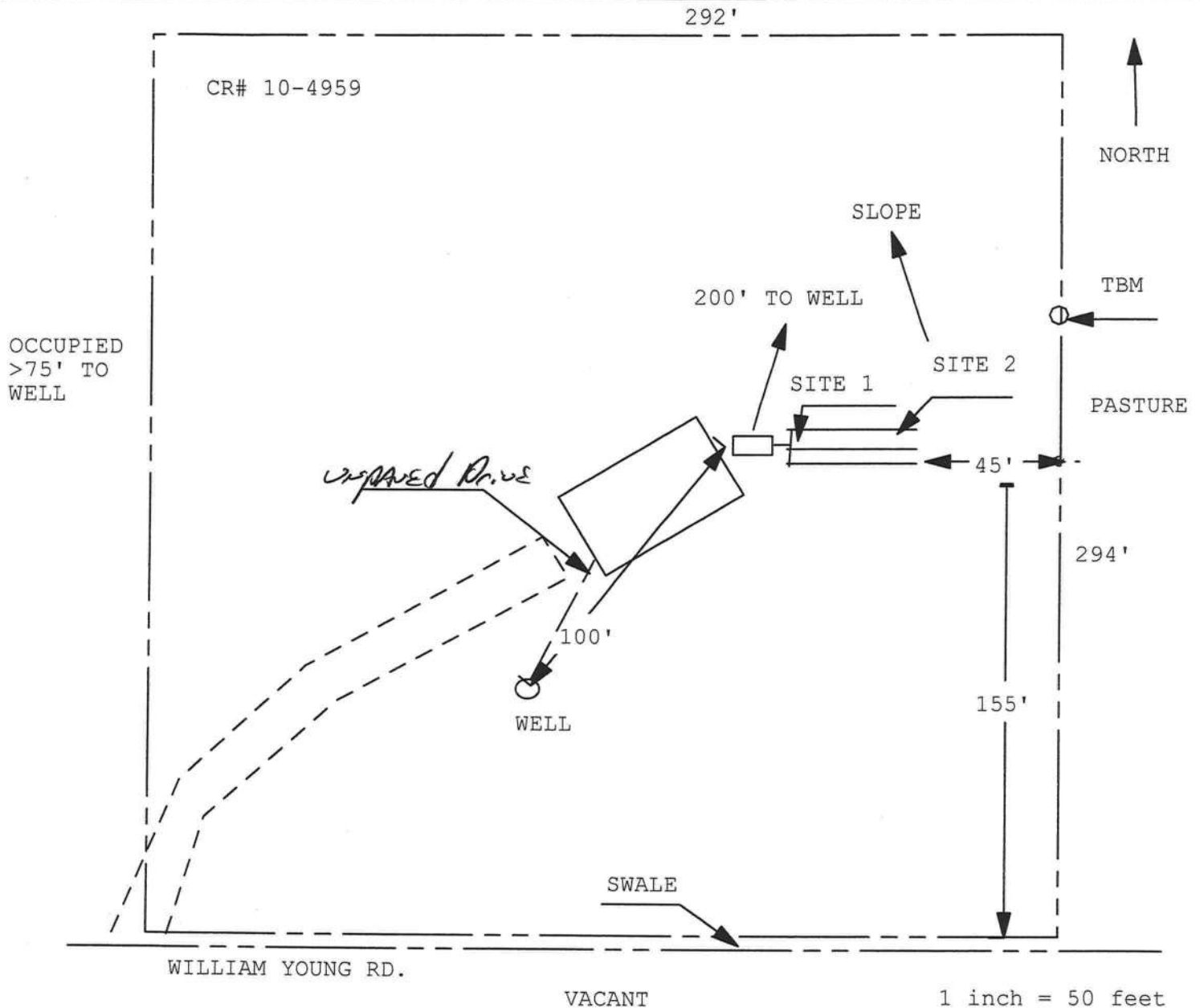
| Code | Desc | Year Blt | Value | Units | Dims | Condition (% Good) |
|------|------|----------|-------|-------|------|--------------------|
| NONE |      |          |       |       |      |                    |

## Land Breakdown

| Lnd Code | Desc          | Units    | Adjustments         | Eff Rate    | Lnd Value   |
|----------|---------------|----------|---------------------|-------------|-------------|
| 000000   | VAC RES (MKT) | 1.975 AC | 1.00/1.00/1.00/1.00 | \$12,004.20 | \$23,708.00 |

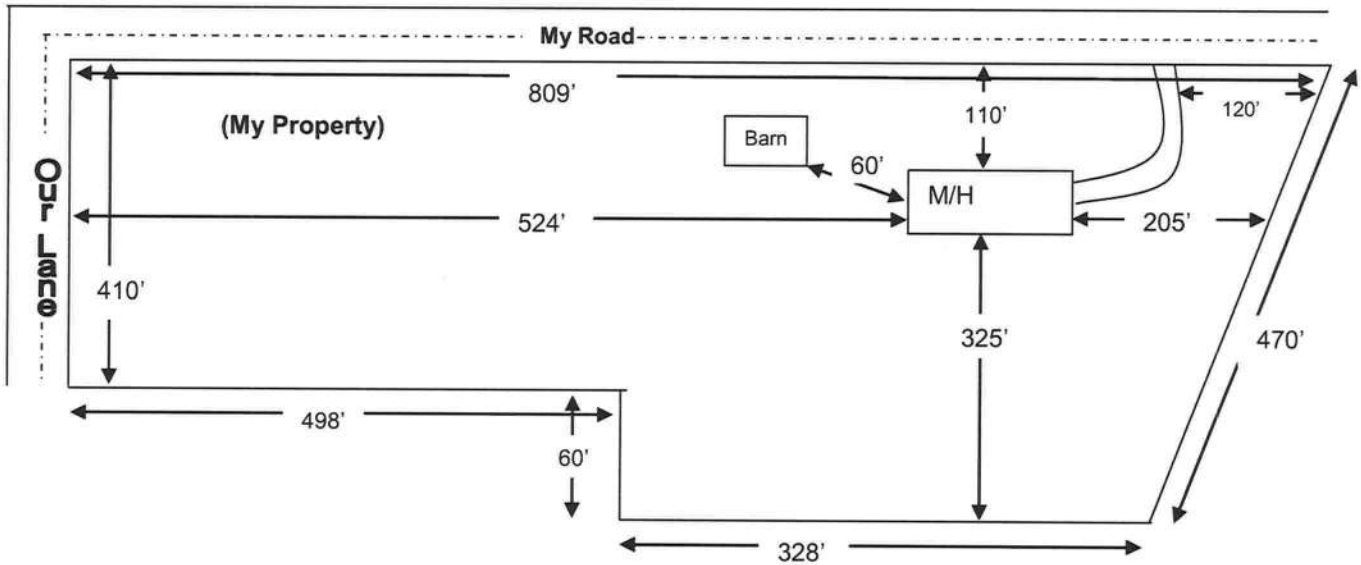
Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 10-0443-N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

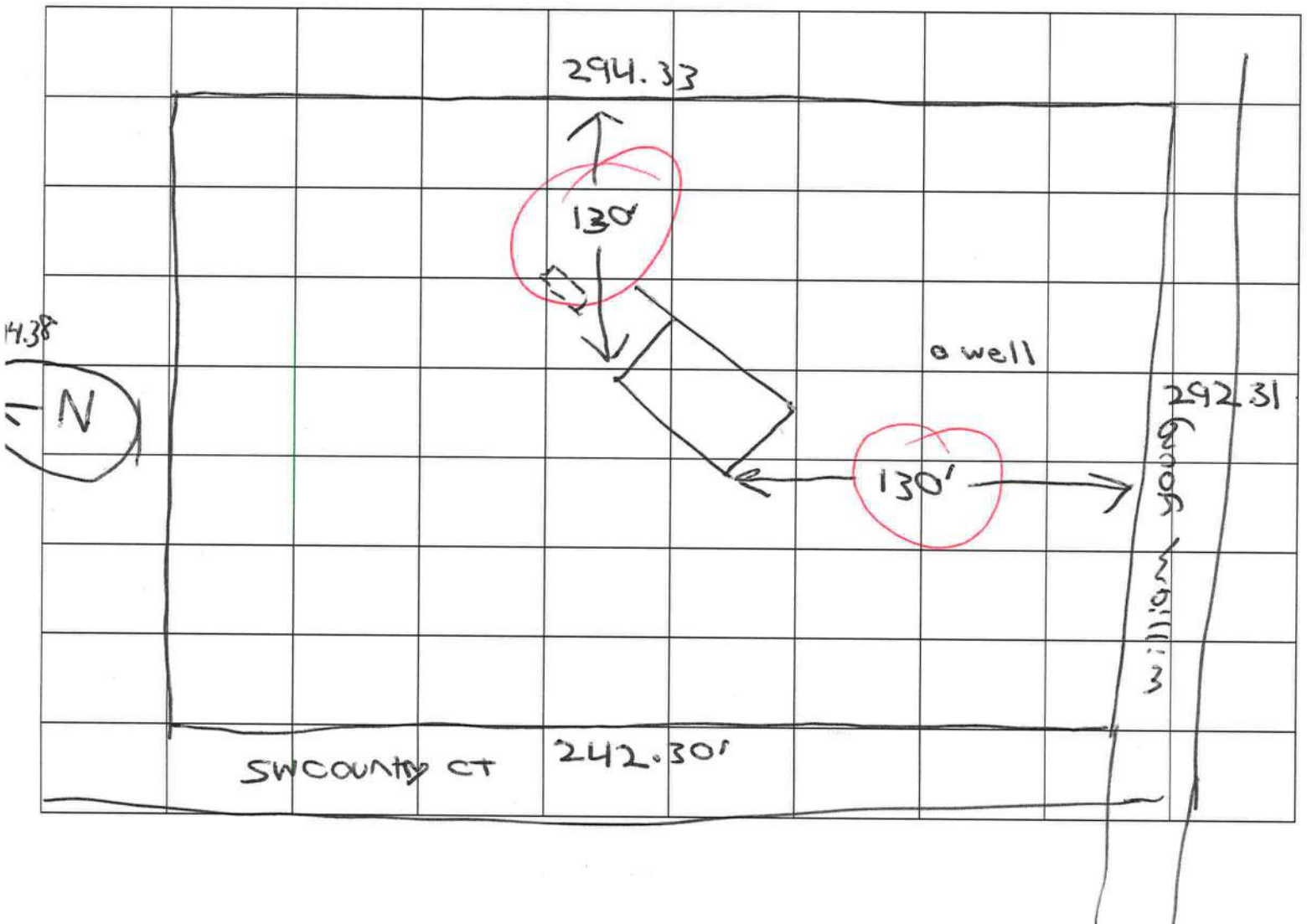


Site Plan Submitted By Paul R. Ford Date 7/28/10  
Plan Approved X Not Approved      Date 9-28-10  
By Sallie Ford - EH Director CPHU  
Notes: Columbia CHD

# SITE PLAN EXAMPLE / WORKSHEET



Use this example to draw your own site plan. Show all existing buildings and any other homes on this property and show the distances between them, Also show where the roads or roads are around the property. This site plan can also be used for the 911 Addressing department if you include the distance from the driveway to the nearest property line.



**Gaylord Pump & Irrigation Inc.**

**P.O. Box 548**

**Branford, FL 32008**

**386-935-0932 Fax 386-935-0778**

10/13/2010

We will be drilling a well for Ben & Annie Sparks. Property ID #11-5S-16-03578-002.  
The following equipment will be used.

4" Steel Casing  
1-Hp Submersible pump  
1-1/4" Drop Pipe  
81 Gallon diaphragm tank.

This equipment meets or exceeds the Florida building code, plumbing section 612 table 612.1

Sincerely,

Donald Gaylord  
Licensed Well Driller  
Florida License 2630

# PRODUCT APPROVAL SPECIFICATION

Location: Donald SHEET

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](http://www.floridabuilding.org)

| Category/Subcategory       | Manufacturer     | Product Description | Approval Number(s) |
|----------------------------|------------------|---------------------|--------------------|
| <b>A. EXTERIOR DOORS</b>   |                  |                     |                    |
| 1. Swinging                | Mayfair          | entry door          | FL 1311            |
| 2. Sliding                 |                  |                     |                    |
| 3. Sectional               |                  |                     |                    |
| 4. Roll up                 | General American | garage door         | FL 2868            |
| 5. Automatic               |                  |                     |                    |
| 6. Other                   |                  |                     |                    |
| <b>B. WINDOWS</b>          |                  |                     |                    |
| 1. Single hung             | Danwid           | Single Hung         | FL 1319            |
| 2. Horizontal Slider       |                  |                     |                    |
| 3. Casement                |                  |                     |                    |
| 4. Double Hung             |                  |                     |                    |
| 5. Fixed                   |                  |                     |                    |
| 6. Awning                  |                  |                     |                    |
| 7. Pass-through            |                  |                     |                    |
| 8. Projected               |                  |                     |                    |
| 9. Mullion                 |                  |                     |                    |
| 10. Wind Breaker           |                  |                     |                    |
| 11. Dual Action            |                  |                     |                    |
| 12. Other                  |                  |                     |                    |
| <b>C. PANEL WALL</b>       |                  |                     |                    |
| 1. Siding                  | Ashley           | Aluminum            | FL 4010            |
| 2. Soffits                 |                  |                     |                    |
| 3. EIFS                    |                  |                     |                    |
| 4. Storefronts             |                  |                     |                    |
| 5. Curtain walls           |                  |                     |                    |
| 6. Wall louver             |                  |                     |                    |
| 7. Glass block             |                  |                     |                    |
| 8. Membrane                |                  |                     |                    |
| 9. Greenhouse              |                  |                     |                    |
| 10. Other                  |                  |                     |                    |
| <b>D. ROOFING PRODUCTS</b> |                  |                     |                    |
| 1. Asphalt Shingles        | Tamko            | 30-year asphalt     | FL 673             |
| 2. Underlayments           |                  |                     |                    |
| 3. Roofing Fasteners       |                  |                     |                    |
| 4. Non-structural Metal    |                  |                     |                    |
| 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          |                  |                     |                    |

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

## Florida Department of Community Affairs Residential Performance Method A

Project Name: 1010018SparksConstructionBen&AnneSparksRes  
 Street: Country Court  
 City, State, Zip: Lake City, FL,  
 Owner: Ben & Anne Sparks  
 Design Location: FL, Gainesville

Builder Name: Sparks Construction  
 Permit Office: *Columbia County*  
 Permit Number: *28973*  
 Jurisdiction: *221000*

1. New construction or existing New (From Plans)  
 2. Single family or multiple family Single-family  
 3. Number of units, if multiple family 1  
 4. Number of Bedrooms 2  
 5. Is this a worst case? No  
 6. Conditioned floor area (ft<sup>2</sup>) 1418

| 7. Windows   | Description | Area                   |
|--------------|-------------|------------------------|
| a. U-Factor: | Dbl, U=0.35 | 290.00 ft <sup>2</sup> |
| SHGC:        | SHGC=0.35   |                        |
| b. U-Factor: | N/A         | ft <sup>2</sup>        |
| SHGC:        |             |                        |
| c. U-Factor: | N/A         | ft <sup>2</sup>        |
| SHGC:        |             |                        |
| d. U-Factor: | N/A         | ft <sup>2</sup>        |
| SHGC:        |             |                        |
| e. U-Factor: | N/A         | ft <sup>2</sup>        |
| SHGC:        |             |                        |

| 8. Floor Types                   | Insulation | Area                    |
|----------------------------------|------------|-------------------------|
| a. Slab-On-Grade Edge Insulation | R=0.0      | 1418.00 ft <sup>2</sup> |
| b. N/A                           | R=         | ft <sup>2</sup>         |
| c. N/A                           | R=         | ft <sup>2</sup>         |

| 9. Wall Types             | Insulation | Area                    |
|---------------------------|------------|-------------------------|
| a. Frame - Wood, Exterior | R=13.0     | 1828.80 ft <sup>2</sup> |
| b. N/A                    | R=         | ft <sup>2</sup>         |
| c. N/A                    | R=         | ft <sup>2</sup>         |
| d. N/A                    | R=         | ft <sup>2</sup>         |

| 10. Ceiling Types       | Insulation | Area                    |
|-------------------------|------------|-------------------------|
| a. Under Attic (Vented) | R=30.0     | 1418.00 ft <sup>2</sup> |
| b. Knee Wall (Vented)   | R=30.0     | 51.00 ft <sup>2</sup>   |
| c. N/A                  | R=         | ft <sup>2</sup>         |

11. Ducts  
 a. Sup: Attic Ret: Attic AH: Attic Sup. R= 6, 283.6 ft<sup>2</sup>

12. Cooling systems  
 a. Central Unit Cap: 40.5 kBtu/hr  
 SEER: 13

13. Heating systems  
 a. Electric Heat Pump Cap: 40.5 kBtu/hr  
 HSPF: 7.7

14. Hot water systems  
 a. Electric Cap: 40 gallons  
 EF: 0.92

b. Conservation features  
 None

15. Credits None

Glass/Floor Area: 0.205

Total As-Built Modified Loads: 27.76

Total Baseline Loads: 33.35

**PASS**

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

PREPARED BY:

DATE: *10/12/10 EVAN BERNLEY*

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

OWNER/AGENT:

DATE:

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



BUILDING OFFICIAL:

DATE:



## PROJECT

|                                   |                        |                                    |
|-----------------------------------|------------------------|------------------------------------|
| Title: 1010018SparksConstructionB | Bedrooms: 2            | Address Type: Street Address       |
| Building Type: FLAsBuilt          | Conditioned Area: 1418 | Lot #                              |
| Owner: Ben & Anne Sparks          | Total Stories: 1       | SubDivision:                       |
| # of Units: 1                     | Worst Case: No         | PlatBook:                          |
| Builder Name: Sparks Construction | Rotate Angle: 135      | Street: Country Court              |
| Permit Office:                    | Cross Ventilation:     | County: Columbia                   |
| Jurisdiction:                     | Whole House Fan:       | City, State, Zip: Lake City , FL , |
| Family Type: Single-family        |                        |                                    |
| New/Existing: New (From Plans)    |                        |                                    |
| Comment:                          |                        |                                    |

## CLIMATE

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

## FLOORS

| ✓     | # | Floor Type                   | Perimeter | R-Value | Area     | Tile | Wood | Carpet |
|-------|---|------------------------------|-----------|---------|----------|------|------|--------|
| _____ | 1 | Slab-On-Grade Edge Insulatio | 198 ft    | 0       | 1418 ft² | 0.3  | 0.3  | 0.4    |

## ROOF

| ✓     | # | Type          | Materials            | Roof Area | Gable Area | Roof Color | Solar Absor. | Tested | Deck Insul. | Pitch  |
|-------|---|---------------|----------------------|-----------|------------|------------|--------------|--------|-------------|--------|
| _____ | 1 | Gable or shed | Composition shingles | 2005 ft²  | 710 ft²    | Dark       | 0.96         | No     | 0           | 45 deg |

## ATTIC

| ✓     | # | Type       | Ventilation | Vent Ratio (1 in) | Area     | RBS | IRCC |
|-------|---|------------|-------------|-------------------|----------|-----|------|
| _____ | 1 | Full attic | Vented      | 300               | 1418 ft² | N   | N    |

## CEILING

| ✓     | # | Ceiling Type         | R-Value | Area     | Framing Frac | Truss Type |
|-------|---|----------------------|---------|----------|--------------|------------|
| _____ | 1 | Under Attic (Vented) | 30      | 1418 ft² | 0.11         | Wood       |
| _____ | 2 | Knee Wall (Vented)   | 30      | 51 ft²   | 0.11         | Wood       |

## WALLS

| ✓     | # | Ornt | Adjacent To | Wall Type    | Cavity R-Value | Area       | Sheathing R-Value | Framing Fraction | Solar Absor. |
|-------|---|------|-------------|--------------|----------------|------------|-------------------|------------------|--------------|
| _____ | 1 | N    | Exterior    | Frame - Wood | 13             | 362.58 ft² |                   | 0.23             | 0.75         |
| _____ | 2 | NE   | Exterior    | Frame - Wood | 13             | 39 ft²     |                   | 0.23             | 0.75         |
| _____ | 3 | E    | Exterior    | Frame - Wood | 13             | 421.5 ft²  |                   | 0.23             | 0.75         |
| _____ | 4 | S    | Exterior    | Frame - Wood | 13             | 463.92 ft² |                   | 0.23             | 0.75         |
| _____ | 5 | W    | Exterior    | Frame - Wood | 13             | 433.5 ft²  |                   | 0.23             | 0.75         |
| _____ | 6 | NW   | Exterior    | Frame - Wood | 13             | 108.33 ft² |                   | 0.23             | 0.75         |

## DOORS

| ✓     | # | Ornt | Door Type | Storms | U-Value  | Area     |
|-------|---|------|-----------|--------|----------|----------|
| _____ | 1 | N    | Insulated | None   | 0.400000 | 6.666666 |
| _____ | 2 | NW   | Insulated | None   | 0.4      | 13.33333 |
| _____ | 3 | E    | Insulated | None   | 0.4      | 17.77777 |
| _____ | 4 | S    | Insulated | None   | 0.400000 | 6.666666 |

## WINDOWS

Orientation shown is the entered orientation (=>) changed to As Built (rotated 135 degrees).

| ✓     | #  | Ornt  | Frame | Panes        | NFRC | U-Factor | SHGC | Storms | Area     | Overhang    |            | Int Shade | Screening |
|-------|----|-------|-------|--------------|------|----------|------|--------|----------|-------------|------------|-----------|-----------|
|       |    |       |       |              |      |          |      |        |          | Depth       | Separation |           |           |
| _____ | 1  | N=>SE | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 15 ft²   | 4 ft 8 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 2  | N=>SE | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 13.33333 | 15 ft 6 in  | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 3  | NW=>E | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 20 ft²   | 18 ft 0 in  | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 4  | N=>SE | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 30 ft²   | 1 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 5  | NW=>E | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 15 ft²   | 2 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 6  | N=>SE | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 25 ft²   | 1 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 7  | NE=>S | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 15 ft²   | 2 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 8  | E=>SW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 3 ft²    | 1 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 9  | E=>SW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 9 ft²    | 1 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 10 | S=>NW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 4 ft²    | 1 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 11 | S=>NW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 4 ft²    | 13 ft 6 in  | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 12 | E=>SW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 15 ft²   | 7 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 13 | S=>NW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 30 ft²   | 7 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 14 | W=>NE | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 15 ft²   | 99 ft 99 in | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 15 | S=>NW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 13.33333 | 14 ft 4 in  | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 16 | S=>NW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 13.33333 | 14 ft 4 in  | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 17 | S=>NW | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 16 ft²   | 0 ft 0 in   | 0 ft 0 in  | HERS 2006 | None      |
| _____ | 18 | W=>NE | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 30 ft²   | 1 ft 6 in   | 2 ft 0 in  | HERS 2006 | None      |
| _____ | 19 | N=>SE | Metal | Low-E Double | Yes  | 0.35     | 0.35 | N      | 4 ft²    | 17 ft 0 in  | 2 ft 0 in  | HERS 2006 | None      |

## INFILTRATION & VENTING

| ✓     | Method  | SLA     | CFM 50 | ACH 50 | ELA  | EqLA  | ---- Forced Ventilation ---- |             | Run Time | Fan   |
|-------|---------|---------|--------|--------|------|-------|------------------------------|-------------|----------|-------|
|       |         |         |        |        |      |       | Supply CFM                   | Exhaust CFM | Fraction | Watts |
| _____ | Default | 0.00036 | 1339   | 5.96   | 73.5 | 138.2 | 0 cfm                        | 0 cfm       | 0        | 0     |

## COOLING SYSTEM

| ✓     | # | System Type  | Subtype | Efficiency | Capacity     | Air Flow | SHR  | Ducts |
|-------|---|--------------|---------|------------|--------------|----------|------|-------|
| _____ | 1 | Central Unit | None    | SEER: 13   | 40.5 kBtu/hr | 1215 cfm | 0.75 | sys#1 |

### HEATING SYSTEM

| ✓     | # | System Type        | Subtype | Efficiency | Capacity     | Ducts |
|-------|---|--------------------|---------|------------|--------------|-------|
| _____ | 1 | Electric Heat Pump | None    | HSPF: 7.7  | 40.5 kBtu/hr | sys#1 |

### HOT WATER SYSTEM

| ✓     | # | System Type | EF   | Cap    | Use    | SetPnt  | Conservation |
|-------|---|-------------|------|--------|--------|---------|--------------|
| _____ | 1 | Electric    | 0.92 | 40 gal | 50 gal | 120 deg | None         |

### SOLAR HOT WATER SYSTEM

| ✓     | FSEC | Company Name | System Model # | Collector Model # | Collector Area | Storage Volume | FEF |
|-------|------|--------------|----------------|-------------------|----------------|----------------|-----|
| _____ | None | None         |                |                   | ft²            |                |     |

### DUCTS

| ✓     | # | Location | Supply R-Value | Supply Area | Location | Return Area | Leakage Type    | Air Handler | CFM 25    | Percent Leakage | QN | RLF |
|-------|---|----------|----------------|-------------|----------|-------------|-----------------|-------------|-----------|-----------------|----|-----|
| _____ | 1 | Attic    | 6              | 283.6 ft    | Attic    | 70.9 ft²    | Default Leakage | Attic       | (Default) | (Default) %     |    |     |

### TEMPERATURES

Programable Thermostat: None

Ceiling Fans:

|         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |
|---------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| Cooling | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |
| Heating | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |
| Venting | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |

Thermostat Schedule: HERS 2006 Reference

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

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Country Court  
Lake City, FL,

PERMIT #:

### INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 83

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

Country Court, Lake City, FL,

|                                              |                  |                                                                     |                   |                         |
|----------------------------------------------|------------------|---------------------------------------------------------------------|-------------------|-------------------------|
| 1. New construction or existing              | New (From Plans) | 9. Wall Types                                                       | Insulation        | Area                    |
| 2. Single family or multiple family          | Single-family    | a. Frame - Wood, Exterior                                           | R=13.0            | 1828.80 ft <sup>2</sup> |
| 3. Number of units, if multiple family       | 1                | b. N/A                                                              | R=                | ft <sup>2</sup>         |
| 4. Number of Bedrooms                        | 2                | c. N/A                                                              | R=                | ft <sup>2</sup>         |
| 5. Is this a worst case?                     | No               | d. N/A                                                              | R=                | ft <sup>2</sup>         |
| 6. Conditioned floor area (ft <sup>2</sup> ) | 1418             | 10. Ceiling Types                                                   | Insulation        | Area                    |
| 7. Windows**                                 | Description      | a. Under Attic (Vented)                                             | R=30.0            | 1418.00 ft <sup>2</sup> |
| a. U-Factor:                                 | Dbl, U=0.35      | b. Knee Wall (Vented)                                               | R=30.0            | 51.00 ft <sup>2</sup>   |
| SHGC:                                        | SHGC=0.35        | c. N/A                                                              | R=                | ft <sup>2</sup>         |
| b. U-Factor:                                 | N/A              | 11. Ducts                                                           |                   |                         |
| SHGC:                                        |                  | a. Sup: Attic Ret: Attic AH: Attic Sup. R= 6, 283.6 ft <sup>2</sup> |                   |                         |
| c. U-Factor:                                 | N/A              | 12. Cooling systems                                                 |                   |                         |
| SHGC:                                        |                  | a. Central Unit                                                     | Cap: 40.5 kBtu/hr |                         |
| d. U-Factor:                                 | N/A              |                                                                     | SEER: 13          |                         |
| SHGC:                                        |                  | 13. Heating systems                                                 |                   |                         |
| e. U-Factor:                                 | N/A              | a. Electric Heat Pump                                               | Cap: 40.5 kBtu/hr |                         |
| SHGC:                                        |                  |                                                                     | HSPF: 7.7         |                         |
| 8. Floor Types                               | Insulation       | Area                                                                |                   |                         |
| a. Slab-On-Grade Edge Insulation             | R=0.0            | 1418.00 ft <sup>2</sup>                                             |                   |                         |
| b. N/A                                       | R=               | ft <sup>2</sup>                                                     |                   |                         |
| c. N/A                                       | R=               | ft <sup>2</sup>                                                     |                   |                         |
|                                              |                  | 14. Hot water systems                                               |                   |                         |
|                                              |                  | a. Electric                                                         | Cap: 40 gallons   |                         |
|                                              |                  |                                                                     | EF: 0.92          |                         |
|                                              |                  | b. Conservation features                                            |                   |                         |
|                                              |                  | None                                                                |                   |                         |
|                                              |                  | 15. Credits                                                         |                   | None                    |

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

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



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

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

# Residential System Sizing Calculation

## Summary

Ben & Anne Sparks  
Country Court  
Lake City, FL

Project Title:  
1010018SparksConstructionBen&AnneSparksRes

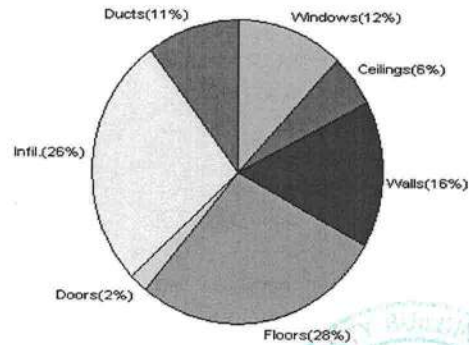
10/12/2010

|                                                                                                       |                   |                                       |                   |
|-------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|
| Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) |                   |                                       |                   |
| Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)                    |                   |                                       |                   |
| Winter design temperature(MJ8 99%)                                                                    | 33 F              | Summer design temperature(MJ8 99%)    | 92 F              |
| Winter setpoint                                                                                       | 70 F              | Summer setpoint                       | 75 F              |
| Winter temperature difference                                                                         | 37 F              | Summer temperature difference         | 17 F              |
| <b>Total heating load calculation</b>                                                                 | <b>31179 Btuh</b> | <b>Total cooling load calculation</b> | <b>34149 Btuh</b> |
| Submitted heating capacity                                                                            | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)                                                                            | 129.9 40500       | Sensible (SHR = 0.75)                 | 115.3 30375       |
| Heat Pump + Auxiliary(0.0kW)                                                                          | 129.9 40500       | Latent                                | 129.6 10125       |
|                                                                                                       |                   | Total (Electric Heat Pump)            | 118.6 40500       |

## WINTER CALCULATIONS

Winter Heating Load (for 1418 sqft)

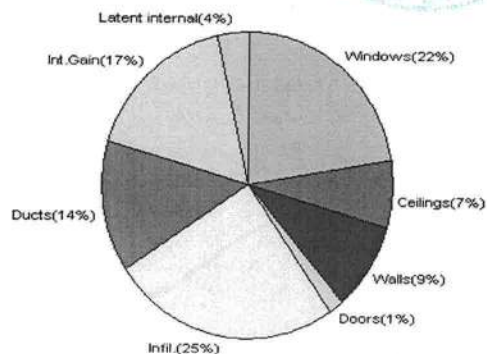
| Load component         |           | Load         |             |
|------------------------|-----------|--------------|-------------|
| Window total           | 290 sqft  | 3755         | Btuh        |
| Wall total             | 1494 sqft | 4908         | Btuh        |
| Door total             | 44 sqft   | 658          | Btuh        |
| Ceiling total          | 1469 sqft | 1731         | Btuh        |
| Floor total            | 1418 sqft | 8645         | Btuh        |
| Infiltration           | 202 cfm   | 8185         | Btuh        |
| Duct loss              |           | 3298         | Btuh        |
| <b>Subtotal</b>        |           | <b>31179</b> | <b>Btuh</b> |
| Ventilation            | 0 cfm     | 0            | Btuh        |
| <b>TOTAL HEAT LOSS</b> |           | <b>31179</b> | <b>Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 1418 sqft)

| Load component                        |           | Load         |             |
|---------------------------------------|-----------|--------------|-------------|
| Window total                          | 290 sqft  | 7640         | Btuh        |
| Wall total                            | 1494 sqft | 3117         | Btuh        |
| Door total                            | 44 sqft   | 498          | Btuh        |
| Ceiling total                         | 1469 sqft | 2433         | Btuh        |
| Floor total                           |           | 0            | Btuh        |
| Infiltration                          | 157 cfm   | 2925         | Btuh        |
| Internal gain                         |           | 5780         | Btuh        |
| Duct gain                             |           | 3945         | Btuh        |
| Sens. Ventilation                     | 0 cfm     | 0            | Btuh        |
| Blower Load                           |           | 0            | Btuh        |
| <b>Total sensible gain</b>            |           | <b>26337</b> | <b>Btuh</b> |
| Latent gain(ducts)                    |           | 868          | Btuh        |
| Latent gain(infiltration)             |           | 5744         | Btuh        |
| Latent gain(ventilation)              |           | 0            | Btuh        |
| Latent gain(internal/occupants/other) |           | 1200         | Btuh        |
| <b>Total latent gain</b>              |           | <b>7811</b>  | <b>Btuh</b> |
| <b>TOTAL HEAT GAIN</b>                |           | <b>34149</b> | <b>Btuh</b> |



8th Edition

EnergyGauge® System Sizing

PREPARED BY:

DATE: 10/12/10 EVAN BENNETT

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Ben & Anne Sparks  
Country Court  
Lake City, FL

Project Title:  
1010018SparksConstructionBen&AnneSparksRes  
Building Type: User

10/12/2010

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)

### Component Loads for Whole House

| Window        | Panes/Type            | Frame | U       | Orientation         | Area(sqft)       | X | HTM= | Load      |
|---------------|-----------------------|-------|---------|---------------------|------------------|---|------|-----------|
| 1             | 2, NFRC 0.35          | Metal | 0.35    | SE                  | 15.0             |   | 12.9 | 194 Btuh  |
| 2             | 2, NFRC 0.35          | Metal | 0.35    | SE                  | 13.3             |   | 12.9 | 173 Btuh  |
| 3             | 2, NFRC 0.35          | Metal | 0.35    | E                   | 20.0             |   | 12.9 | 259 Btuh  |
| 4             | 2, NFRC 0.35          | Metal | 0.35    | SE                  | 30.0             |   | 12.9 | 388 Btuh  |
| 5             | 2, NFRC 0.35          | Metal | 0.35    | E                   | 15.0             |   | 12.9 | 194 Btuh  |
| 6             | 2, NFRC 0.35          | Metal | 0.35    | SE                  | 25.0             |   | 12.9 | 324 Btuh  |
| 7             | 2, NFRC 0.35          | Metal | 0.35    | S                   | 15.0             |   | 12.9 | 194 Btuh  |
| 8             | 2, NFRC 0.35          | Metal | 0.35    | SW                  | 3.0              |   | 12.9 | 39 Btuh   |
| 9             | 2, NFRC 0.35          | Metal | 0.35    | SW                  | 9.0              |   | 12.9 | 117 Btuh  |
| 10            | 2, NFRC 0.35          | Metal | 0.35    | NW                  | 4.0              |   | 12.9 | 52 Btuh   |
| 11            | 2, NFRC 0.35          | Metal | 0.35    | NW                  | 4.0              |   | 12.9 | 52 Btuh   |
| 12            | 2, NFRC 0.35          | Metal | 0.35    | SW                  | 15.0             |   | 12.9 | 194 Btuh  |
| 13            | 2, NFRC 0.35          | Metal | 0.35    | NW                  | 30.0             |   | 12.9 | 388 Btuh  |
| 14            | 2, NFRC 0.35          | Metal | 0.35    | NE                  | 15.0             |   | 12.9 | 194 Btuh  |
| 15            | 2, NFRC 0.35          | Metal | 0.35    | NW                  | 13.3             |   | 12.9 | 173 Btuh  |
| 16            | 2, NFRC 0.35          | Metal | 0.35    | NW                  | 13.3             |   | 12.9 | 173 Btuh  |
| 17            | 2, NFRC 0.35          | Metal | 0.35    | NW                  | 16.0             |   | 12.9 | 207 Btuh  |
| 18            | 2, NFRC 0.35          | Metal | 0.35    | NE                  | 30.0             |   | 12.9 | 388 Btuh  |
| 19            | 2, NFRC 0.35          | Metal | 0.35    | SE                  | 4.0              |   | 12.9 | 52 Btuh   |
| Window Total  |                       |       |         |                     | 290.0(sqft)      |   |      | 3756 Btuh |
| Walls         | Type                  | Ornt. | Ueff.   | R-Value<br>(Cav/Sh) | Area             | X | HTM= | Load      |
| 1             | Frame - Wood          | - Ext | (0.089) | 13.0/0.0            | 269              |   | 3.28 | 882 Btuh  |
| 2             | Frame - Wood          | - Ext | (0.089) | 13.0/0.0            | 24               |   | 3.28 | 79 Btuh   |
| 3             | Frame - Wood          | - Ext | (0.089) | 13.0/0.0            | 377              |   | 3.28 | 1237 Btuh |
| 4             | Frame - Wood          | - Ext | (0.089) | 13.0/0.0            | 377              |   | 3.28 | 1237 Btuh |
| 5             | Frame - Wood          | - Ext | (0.089) | 13.0/0.0            | 389              |   | 3.28 | 1276 Btuh |
| 6             | Frame - Wood          | - Ext | (0.089) | 13.0/0.0            | 60               |   | 3.28 | 197 Btuh  |
| Wall Total    |                       |       |         |                     | 1494(sqft)       |   |      | 4908 Btuh |
| Doors         | Type                  | Storm | Ueff.   |                     | Area             | X | HTM= | Load      |
| 1             | Insulated - Exterior, | n     | (0.400) |                     | 7                |   | 14.8 | 99 Btuh   |
| 2             | Insulated - Exterior, | n     | (0.400) |                     | 13               |   | 14.8 | 197 Btuh  |
| 3             | Insulated - Exterior, | n     | (0.400) |                     | 18               |   | 14.8 | 263 Btuh  |
| 4             | Insulated - Exterior, | n     | (0.400) |                     | 7                |   | 14.8 | 99 Btuh   |
| Door Total    |                       |       |         |                     | 44(sqft)         |   |      | 658Btuh   |
| Ceilings      | Type/Color/Surface    |       | Ueff.   | R-Value             | Area             | X | HTM= | Load      |
| 1             | Vented Attic/D/Shing  |       | (0.032) | 30.0/0.0            | 1418             |   | 1.2  | 1671 Btuh |
| 2             | Knee Wall/D/Shing     |       | (0.032) | 30.0/0.0            | 51               |   | 1.2  | 60 Btuh   |
| Ceiling Total |                       |       |         |                     | 1469(sqft)       |   |      | 1731Btuh  |
| Floors        | Type                  |       | Ueff.   | R-Value             | Size             | X | HTM= | Load      |
| 1             | Slab On Grade         |       | (1.180) | 0.0                 | 198.0 ft(perim.) |   | 43.7 | 8645 Btuh |
| Floor Total   |                       |       |         |                     | 1418 sqft        |   |      | 8645 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Ben & Anne Sparks  
Country Court  
Lake City, FL

Project Title:  
1010018SparksConstructionBen&AnneSparksRes  
Building Type: User

10/12/2010

|                     |                                                               |             |                       |                    |               |                   |
|---------------------|---------------------------------------------------------------|-------------|-----------------------|--------------------|---------------|-------------------|
|                     | Envelope Subtotal:                                            |             |                       |                    |               | 19697 Btuh        |
| <b>Infiltration</b> | Type<br>Natural                                               | ACH<br>0.90 | Volume(cuft)<br>13471 | Wall Ratio<br>1.00 | CFM=<br>202.1 | 8185 Btuh         |
| <b>Duct load</b>    | Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.118) |             |                       |                    |               | 3298 Btuh         |
| <b>All Zones</b>    | <b>Sensible Subtotal All Zones</b>                            |             |                       |                    |               | <b>31179 Btuh</b> |

### WHOLE HOUSE TOTALS

|                           |                                |            |
|---------------------------|--------------------------------|------------|
| <b>Totals for Heating</b> | Subtotal Sensible Heat Loss    | 31179 Btuh |
|                           | Ventilation Sensible Heat Loss | 0 Btuh     |
|                           | Total Heat Loss                | 31179 Btuh |

### EQUIPMENT

|                       |   |            |
|-----------------------|---|------------|
| 1. Electric Heat Pump | # | 40500 Btuh |
|-----------------------|---|------------|

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)  
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)  
U - (Window U-Factor)  
HTM - (ManualJ Heat Transfer Multiplier)



Version 8

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Ben & Anne Sparks  
Country Court  
Lake City, FL

Project Title:  
1010018SparksConstructionBen&AnneSparksRes

10/12/2010

Reference City: Gainesville, FL

Temperature Difference: 17.0F(MJ8 99%)

Humidity difference: 54gr.

### Component Loads for Whole House

| Window   | Type*              |                          |    |      |    |      | Overhang |            | Window Area(sqft) |                     |          | HTM    |           | Load       |      |
|----------|--------------------|--------------------------|----|------|----|------|----------|------------|-------------------|---------------------|----------|--------|-----------|------------|------|
|          | Panes              | SHGC                     | U  | InSh | IS | Ornt | Len      | Hgt        | Gross             | Shaded              | Unshaded | Shaded | Unshaded  |            |      |
| 1        | 2 NFRC             | 0.35, 0.35               | No | No   | SE |      | 4.7ft    | 2.0ft      | 15.0              | 15.0                | 0.0      | 13     | 31        | 200        | Btuh |
| 2        | 2 NFRC             | 0.35, 0.35               | No | No   | SE |      | 15.5f    | 2.0ft      | 13.3              | 13.3                | 0.0      | 13     | 31        | 177        | Btuh |
| 3        | 2 NFRC             | 0.35, 0.35               | No | No   | E  |      | 18.0f    | 2.0ft      | 20.0              | 20.0                | 0.0      | 13     | 40        | 266        | Btuh |
| 4        | 2 NFRC             | 0.35, 0.35               | No | No   | SE |      | 1.5ft    | 2.0ft      | 30.0              | 2.8                 | 27.2     | 13     | 31        | 881        | Btuh |
| 5        | 2 NFRC             | 0.35, 0.35               | No | No   | E  |      | 2.5ft    | 2.0ft      | 15.0              | 0.2                 | 14.8     | 13     | 40        | 589        | Btuh |
| 6        | 2 NFRC             | 0.35, 0.35               | No | No   | SE |      | 1.5ft    | 2.0ft      | 25.0              | 2.3                 | 22.7     | 13     | 31        | 734        | Btuh |
| 7        | 2 NFRC             | 0.35, 0.35               | No | No   | S  |      | 2.5ft    | 2.0ft      | 15.0              | 15.0                | 0.0      | 13     | 16        | 200        | Btuh |
| 8        | 2 NFRC             | 0.35, 0.35               | No | No   | SW |      | 1.5ft    | 2.0ft      | 3.0               | 1.4                 | 1.6      | 13     | 31        | 68         | Btuh |
| 9        | 2 NFRC             | 0.35, 0.35               | No | No   | SW |      | 1.5ft    | 2.0ft      | 9.0               | 1.4                 | 7.6      | 13     | 31        | 254        | Btuh |
| 10       | 2 NFRC             | 0.35, 0.35               | No | No   | NW |      | 1.5ft    | 2.0ft      | 4.0               | 0.0                 | 4.0      | 13     | 29        | 118        | Btuh |
| 11       | 2 NFRC             | 0.35, 0.35               | No | No   | NW |      | 13.5f    | 2.0ft      | 4.0               | 0.0                 | 4.0      | 13     | 29        | 118        | Btuh |
| 12       | 2 NFRC             | 0.35, 0.35               | No | No   | SW |      | 7.5ft    | 2.0ft      | 15.0              | 15.0                | 0.0      | 13     | 31        | 200        | Btuh |
| 13       | 2 NFRC             | 0.35, 0.35               | No | No   | NW |      | 7.5ft    | 2.0ft      | 30.0              | 0.0                 | 30.0     | 13     | 29        | 884        | Btuh |
| 14       | 2 NFRC             | 0.35, 0.35               | No | No   | NE |      | 107.     | 2.0ft      | 15.0              | 0.0                 | 15.0     | 13     | 29        | 442        | Btuh |
| 15       | 2 NFRC             | 0.35, 0.35               | No | No   | NW |      | 14.3f    | 2.0ft      | 13.3              | 0.0                 | 13.3     | 13     | 29        | 393        | Btuh |
| 16       | 2 NFRC             | 0.35, 0.35               | No | No   | NW |      | 14.3f    | 2.0ft      | 13.3              | 0.0                 | 13.3     | 13     | 29        | 393        | Btuh |
| 17       | 2 NFRC             | 0.35, 0.35               | No | No   | NW |      | 0.0ft    | 0.0ft      | 16.0              | 0.0                 | 16.0     | 13     | 29        | 472        | Btuh |
| 18       | 2 NFRC             | 0.35, 0.35               | No | No   | NE |      | 1.5ft    | 2.0ft      | 30.0              | 0.0                 | 30.0     | 13     | 29        | 884        | Btuh |
| 19       | 2 NFRC             | 0.35, 0.35               | No | No   | SE |      | 17.0f    | 2.0ft      | 4.0               | 4.0                 | 0.0      | 13     | 31        | 53         | Btuh |
|          | Excursion          |                          |    |      |    |      |          |            |                   |                     |          |        |           | 314        | Btuh |
|          | Window Total       |                          |    |      |    |      |          |            | 290 (sqft)        |                     |          |        |           | 7640 Btuh  |      |
| Walls    | Type               | U-Value                  |    |      |    |      |          | R-Value    |                   | Area(sqft)          |          | HTM    |           | Load       |      |
|          |                    |                          |    |      |    |      |          | Cav/Sheath |                   |                     |          |        |           |            |      |
|          | 1                  | Frame - Wood - Ext       |    |      |    |      |          | 0.09       |                   | 13.0/0.0            |          | 2.1    |           | 560 Btuh   |      |
|          | 2                  | Frame - Wood - Ext       |    |      |    |      |          | 0.09       |                   | 13.0/0.0            |          | 2.1    |           | 50 Btuh    |      |
|          | 3                  | Frame - Wood - Ext       |    |      |    |      |          | 0.09       |                   | 13.0/0.0            |          | 2.1    |           | 786 Btuh   |      |
|          | 4                  | Frame - Wood - Ext       |    |      |    |      |          | 0.09       |                   | 13.0/0.0            |          | 2.1    |           | 785 Btuh   |      |
|          | 5                  | Frame - Wood - Ext       |    |      |    |      |          | 0.09       |                   | 13.0/0.0            |          | 2.1    |           | 810 Btuh   |      |
|          | 6                  | Frame - Wood - Ext       |    |      |    |      |          | 0.09       |                   | 13.0/0.0            |          | 2.1    |           | 125 Btuh   |      |
|          | Wall Total         |                          |    |      |    |      |          |            | 1494 (sqft)       |                     |          |        | 3117 Btuh |            |      |
| Doors    | Type               |                          |    |      |    |      |          |            |                   | Area (sqft)         |          | HTM    |           | Load       |      |
|          | 1                  | Insulated - Exterior     |    |      |    |      |          |            |                   | 6.7                 |          | 11.2   |           | 75 Btuh    |      |
|          | 2                  | Insulated - Exterior     |    |      |    |      |          |            |                   | 13.3                |          | 11.2   |           | 149 Btuh   |      |
|          | 3                  | Insulated - Exterior     |    |      |    |      |          |            |                   | 17.8                |          | 11.2   |           | 199 Btuh   |      |
|          | 4                  | Insulated - Exterior     |    |      |    |      |          |            |                   | 6.7                 |          | 11.2   |           | 75 Btuh    |      |
|          | Door Total         |                          |    |      |    |      |          |            | 44 (sqft)         |                     |          |        | 498 Btuh  |            |      |
| Ceilings | Type/Color/Surface | U-Value                  |    |      |    |      |          | R-Value    |                   | Area(sqft)          |          | HTM    |           | Load       |      |
|          | 1                  | Vented Attic/DarkShingle |    |      |    |      |          | 0.032      |                   | 30.0/0.0            |          | 1.66   |           | 2348 Btuh  |      |
|          | 2                  | Knee Wall/DarkShingle    |    |      |    |      |          | 0.032      |                   | 30.0/0.0            |          | 1.66   |           | 84 Btuh    |      |
|          |                    | Ceiling Total            |    |      |    |      |          |            |                   | 1469 (sqft)         |          |        |           | 2433 Btuh  |      |
| Floors   | Type               |                          |    |      |    |      |          | R-Value    |                   | Size                |          | HTM    |           | Load       |      |
|          | 1                  | Slab On Grade            |    |      |    |      |          | 0.0        |                   | 1418 (ft-perimeter) |          | 0.0    |           | 0 Btuh     |      |
|          |                    | Floor Total              |    |      |    |      |          |            |                   | 1418.0 (sqft)       |          |        |           | 0 Btuh     |      |
|          | Envelope Subtotal: |                          |    |      |    |      |          |            |                   |                     |          |        |           | 13688 Btuh |      |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Ben & Anne Sparks  
Country Court  
Lake City, FL

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
1010018SparksConstructionBen&AnneSparksRes

10/12/2010

|               |                                                        |           |               |                |           |            |
|---------------|--------------------------------------------------------|-----------|---------------|----------------|-----------|------------|
| Infiltration  | Type                                                   | ACH       | Volume(cuft)  | Wall Ratio     | CFM=      | Load       |
|               | SensibleNatural                                        | 0.70      | 13471         | 1494           | 202.1     | 2925 Btuh  |
| Internal gain |                                                        | Occupants | Btuh/occupant |                | Appliance | Load       |
|               |                                                        | 3         | X 230         | +              | 4400      | 5090 Btuh  |
|               | Sensible Envelope Load:                                |           |               |                |           | 21703 Btuh |
| Duct load     | Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) |           |               | (DGM of 0.176) |           | 3945 Btuh  |
|               | Sensible Load All Zones                                |           |               |                |           | 25647 Btuh |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Ben & Anne Sparks  
Country Court  
Lake City, FL

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
1010018SparksConstructionBen&AnneSparksRes

10/12/2010

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>22393 Btuh</b> |
|                                           | Sensible Duct Load                                        | 3945 Btuh         |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>26337 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>26337 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 5744 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 868 Btuh          |
|                                           | Latent occupant gain (6 people @ 200 Btuh per person)     | 1200 Btuh         |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>7811 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>34149 Btuh</b> |

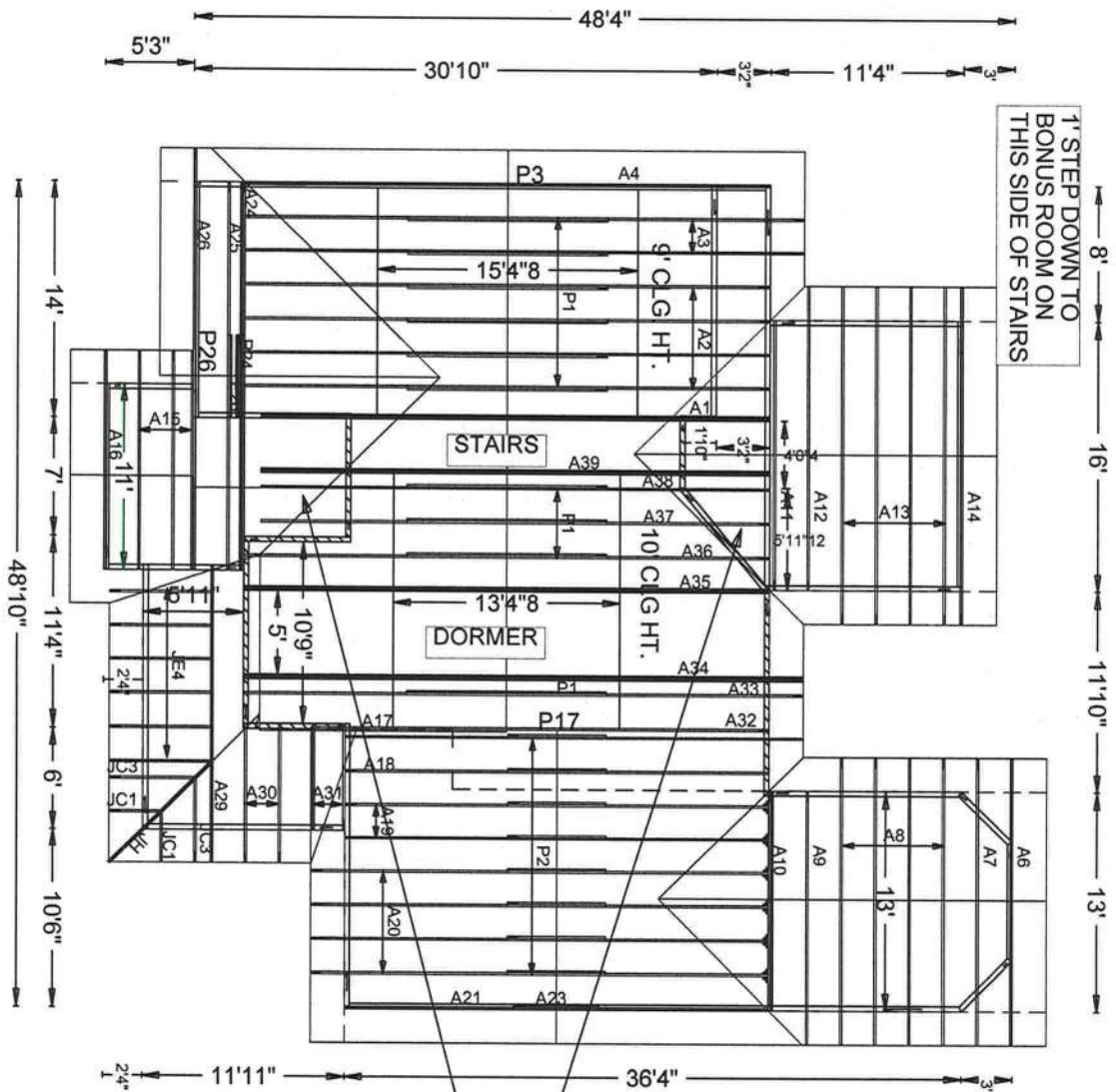
### EQUIPMENT

|                 |   |            |
|-----------------|---|------------|
| 1. Central Unit | # | 40500 Btuh |
|-----------------|---|------------|

\*Key: Window types (Panels - Number and type of panes of glass)  
(SHGC - Shading coefficient of glass as SHGC numerical value)  
(U - Window U-Factor)  
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))  
- For Blinds: Assume medium color, half closed  
For Draperies: Assume medium weave, half closed  
For Roller shades: Assume translucent, half closed  
(IS - Insect screen: none(N), Full(F) or Half(½))  
(Ornt - compass orientation)



Version 8



W.B. Howland Truss Co.  
P.O. Box 700  
Live Oak, FL 32064  
(386) 362-1235  
(386) 362-7124 (fax)

ELEVATION DEPICTS MATCHED  
FASCIA... WITH A 4/12 PORCH, AND  
A 12/12 ROOF THIS RESULTS IN  
A HEEL HT. ON 12/12 PLANES OF  
1' 7 15/16".

ROOF PITCH: 4/12 & 12/12  
CLG. PITCH: (1) 10' CLG. AREA  
OVERHANG: 2'  
LOADING: 40  
WIND LOAD: 110  
EXT WALLS: 2X4X9,  
& 2X4X10  
DATE: 9/1/2010

TWO SMALL AREAS  
WHERE CLG. FRAME  
DOWN TO 9" WILL BE  
REQUIRED

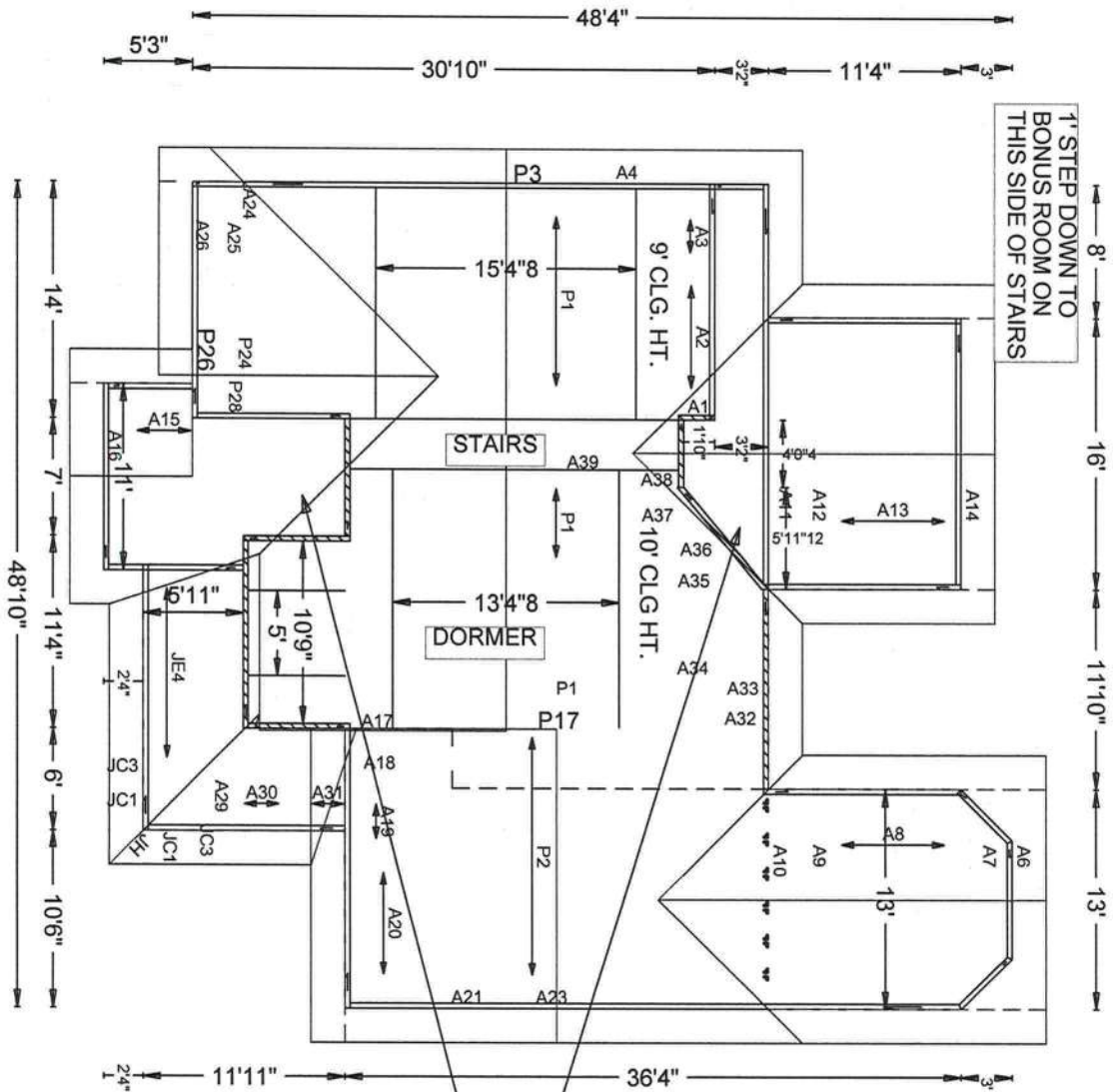
BONUS ROOM SIZE:  
LEFT OF STAIRS 15' 4 1/2"  
WIDE, 8' HT.  
RIGHT OF STAIRS 13' 4 1/2"  
WIDE, 8' HT.



Job Name: SPARKS CONSTRUCTION  
Customer: Contractor  
Designer: Cynthia Gude-Newsome

JOB NO:  
6970B

PAGE NO:  
1 OF 1



1' STEP DOWN TO  
BONUS ROOM ON  
THIS SIDE OF STAIRS

ELEVATION DEPICTS MATCHED  
FASCIA.. WITH A 4/12 PORCH, AND  
A 12/12 ROOF THIS RESULTS IN  
A HEEL HT. ON 12/12 PLANES OF  
1'7 15/16".

W.B. Howland Truss Co.  
P.O. Box 700  
Live Oak, FL 32064  
(386) 362-1235  
(386) 362-7124 (fax)

ROOF PITCH: 4/12 & 12/12  
CLG PITCH: (1) 10' CLG. AREA  
OVERHANG: 2'  
LOADING: 40  
WIND LOAD: 110  
EXT WALLS: 2X4X9,  
& 2X4X10  
DATE: 9/1/2010

TWO SMALL AREAS  
WHERE CLG. FRAME  
DOWN TO 9' WILL BE  
REQUIRED

BONUS ROOM SIZE:  
LEFT OF STAIRS 15'4 1/2"  
WIDE, 8' HT.  
RIGHT OF STAIRS 13'4 1/2"  
WIDE, 8' HT.



Job Name: SPARKS CONSTRUCTION  
Customer: Contractor  
Designer: Cynthia Gude-Newsome

JOB NO:

6970B

PAGE NO:

1 OF 1

# New Construction Subterranean Termite Service Record

OMB Approval No. 2502-0525  
(exp. 02/29/2012)

This form is completed by the licensed Pest Control Company.

**Public reporting burden** for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential, therefore, no assurance of confidentiality is provided.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Company and builder, unless stated otherwise.

28973

## Section 1: General Information (Pest Control Company Information)

Company Name Aspen Pest Control, Inc.  
Company Address P.O. Box 1755 City Lake City State FL Zip 32055  
Company Business License No. JB109476 Company Phone No. 386-755-3511  
FHA/VA Case No. (if any) \_\_\_\_\_

## Section 2: Builder Information

Company Name Sparks Construction Phone No. 755-9314

## Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Ben Sparks  
100 SW Country Court Lake City, FL 32024

## Section 4: Service Information

Date(s) of Service(s) 11-18-2010  
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other \_\_\_\_\_

Check all that apply:

- ☐ A. Soil Applied Liquid Termiticide  
Brand Name of Termiticide: Maxx-Thor EPA Registration No. 83923-6  
Approx. Dilution (%): .06 Approx. Total Gallons Mix Applied: 300 Treatment completed on exterior: ☐ Yes ☐ No
- ☐ B. Wood Applied Liquid Termiticide  
Brand Name of Termiticide: \_\_\_\_\_ EPA Registration No. \_\_\_\_\_  
Approx. Dilution (%): \_\_\_\_\_ Approx. Total Gallons Mix Applied: \_\_\_\_\_
- ☐ C. Bait System Installed  
Name of System \_\_\_\_\_ EPA Registration No. \_\_\_\_\_ Number of Stations Installed \_\_\_\_\_
- ☐ D. Physical Barrier System Installed  
Name of System \_\_\_\_\_ Attach installation information (required)

Service Agreement Available? ☐ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) \_\_\_\_\_

Comments \_\_\_\_\_

Name of Applicator(s) C. Lacey Certification No. (if required by State law) JB104376

The applicator has used a product in accordance with the product label and state requirements. All materials and methods used comply with state and federal regulations.

Authorized Signature C. Lacey Date 11-18-2010

**Warning:** HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPCA-99-B may still be used

form HUD-NPMA-99-B



28973

Lake City (386) 755-3611  
Gainesville (352) 494-5751  
Fax (386) 755-3885  
Toll Free 1-800-616-4707

**Certificate of Compliance for Termite Protection**

(as required by Florida Building Code (FBC) 1816.1.7)

Aspen Pest Control, Inc.  
(386) 755-3611  
State License # - JB109476  
State Certification # - JF104376

**Sparks Residence - 100 SW Country Court - Lake City, FL 32024**

---

Address of Treatment or Lot Block of Treatment

---

**Soil Barrier**

(Method of Termite Prevention Treatment - Soil Barrier, Wood Treatment, Bait System, Other)

---

**Horizontal, Vertical, Void and Exterior Treatment**

Description of Treatment

The above named structure has received a complete treatment for the prevention of subterranean termites. Treatment was done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services.

A handwritten signature in black ink, appearing to be "R. S. S.", written over a horizontal line.  
Authorized SignatureA handwritten date "6/21/11" in black ink, written over a horizontal line.  
Date

# COLUMBIA COUNTY FLORIDA OFFICIAL CERTIFICATE

## 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 11-5S-16-03578-002

Building permit No. 000028973

Use Classification SFD, UTILITY

Fire: 25.68

Permit Holder JOSH SPARKS

Waste: 67.00

Owner of Building BEN SPARKS

Total: 92.68

Location: 100 SW COUNTRY COURT, LAKE CITY, FL 32024

Date: 06/22/2011

*Harry Dieke*

Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)

# 28973



- Engineering
  - Geotechnical
  - Environmental
- Laboratories

## Cal-Tech Testing, Inc.

P.O. Box 1626 • Lake City, FL 32056-1625 • Tel(386)755-3833 • Fax(386)752-5456

4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902

### REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 10-00419-01

DATE TESTED: 11/9/10

DATE REPORTED: 11/16/10

|                             |                                                              |                       |
|-----------------------------|--------------------------------------------------------------|-----------------------|
| PROJECT:                    | Ben Sparks Residence, Lake City, FL                          |                       |
| CLIENT:                     | Spark's Contractors, Inc. P.O. Box 1479, Lake City, FL 32056 |                       |
| GENERAL CONTRACTOR:         | Spark's Contractors, Inc.                                    |                       |
| EARTHWORK CONTRACTOR:       | Spark's Contractors, Inc.                                    |                       |
| INSPECTOR:                  | Chad Day                                                     |                       |
| ASTM METHOD                 |                                                              | SOIL USE              |
| (D-2922) Nuclear            |                                                              | SUBGRADE/NATURAL SOIL |
| SPECIFIED REQUIREMENTS: 95% |                                                              |                       |

| TEST NO. | TEST LOCATION                  | TEST DEPTH | WET DENSITY (lb/ft <sup>3</sup> ) | MOISTURE PERCENT | DRY DENSITY (lb/ft <sup>3</sup> ) | PROCTOR TEST NO. | PROCTOR VALUE | MAXIMUM DENSITY |
|----------|--------------------------------|------------|-----------------------------------|------------------|-----------------------------------|------------------|---------------|-----------------|
| 1        | NW Corner of Footing 10' South | 12"        | 112.2                             | 6.8              | 105.1                             | 1                | 109.0         | 96%             |
| 2        | SW Corner of Footing 10' East  | 12"        | 113.4                             | 7.4              | 105.6                             | 1                | 109.0         | 97%             |
| 3        | SE Corner of Footing 10' North | 12"        | 112.5                             | 6.6              | 105.5                             | 1                | 109.0         | 97%             |
| 4        | NE Corner of Footing 10' West  | 12"        | 112.7                             | 7.3              | 105.0                             | 1                | 109.0         | 96%             |

REMARKS: The Above Tests Meet Specified Requirements.

| PROCTORS    |                  |                                               |             |                          |
|-------------|------------------|-----------------------------------------------|-------------|--------------------------|
| PROCTOR NO. | SOIL DESCRIPTION | MAXIMUM DRY UNIT WEIGHT (lb/ft <sup>3</sup> ) | OPT. MOIST. | TYPE                     |
| 1           | Tans Sand        | 109.0                                         | 10.0        | MODIFIED (ASTM D-1557) ▼ |

Respectfully Submitted,  
CAL-TECH TESTING, INC.

*Linda Creamer, CEO, DBE*  
Linda M. Creamer  
President - CEO

Reviewed By:

*[Signature]*  
Date: 11/16/2010  
Licensed, Florida No: 57842

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

# 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: 1U5R215-Z0105072715

Truss Fabricator: W.B. Howland  
Job Identification: 6970B-/SPARKS CONSTRUCTION /Contractor -- LAKE CITY, FL  
Truss Count: 46  
Model Code: Florida Building Code 2007 and 2009 Supplement  
Truss Criteria: FBC2007Res/TPI-2002(STD)  
Engineering Software: Alpine Software, Version 10.01.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-05 -Closed



Seal Date: 10/05/2010

-Truss Design Engineer-

William H. Krick

Florida License Number: 70861

1950 Marley Drive

Haines City, FL 33844

## 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: HCUSR215

Details: BRCLBSUB-A1103005-GBLLETIN-A1101505-CNNAILSP-PB120-

| #  | Ref        | Description | Drawing# | Date     |
|----|------------|-------------|----------|----------|
| 1  | 73495--A1  |             | 10277019 | 10/04/10 |
| 2  | 73496--A2  |             | 10277020 | 10/04/10 |
| 3  | 73497--A3  |             | 10277021 | 10/04/10 |
| 4  | 73498--A4  |             | 10277022 | 10/04/10 |
| 5  | 73499--A6  |             | 10277010 | 10/04/10 |
| 6  | 73500--A7  |             | 10277011 | 10/04/10 |
| 7  | 73501--A8  |             | 10277012 | 10/04/10 |
| 8  | 73502--A9  |             | 10277014 | 10/04/10 |
| 9  | 73503--A10 |             | 10277046 | 10/04/10 |
| 10 | 73504--A11 |             | 10277015 | 10/04/10 |
| 11 | 73505--A12 |             | 10277016 | 10/04/10 |
| 12 | 73506--A13 |             | 10277009 | 10/04/10 |
| 13 | 73507--A14 |             | 10277001 | 10/04/10 |
| 14 | 73508--A15 |             | 10277013 | 10/04/10 |
| 15 | 73509--A16 |             | 10277045 | 10/04/10 |
| 16 | 73510--A17 |             | 10277017 | 10/04/10 |
| 17 | 73511--A18 |             | 10277018 | 10/04/10 |
| 18 | 73512--A19 |             | 10277023 | 10/04/10 |
| 19 | 73513--A20 |             | 10277024 | 10/04/10 |
| 20 | 73514--A21 |             | 10277025 | 10/04/10 |
| 21 | 73515--A23 |             | 10277026 | 10/04/10 |
| 22 | 73516--A24 |             | 10277027 | 10/04/10 |
| 23 | 73517--A25 |             | 10277028 | 10/04/10 |
| 24 | 73518--A26 |             | 10277029 | 10/04/10 |
| 25 | 73519--A29 |             | 10277003 | 10/04/10 |
| 26 | 73520--A30 |             | 10277007 | 10/04/10 |
| 27 | 73521--A31 |             | 10277008 | 10/04/10 |
| 28 | 73522--A32 |             | 10277030 | 10/04/10 |
| 29 | 73523--A33 |             | 10277031 | 10/04/10 |
| 30 | 73524--A34 |             | 10277032 | 10/04/10 |
| 31 | 73525--A35 |             | 10277033 | 10/04/10 |
| 32 | 73526--A36 |             | 10277034 | 10/04/10 |
| 33 | 73527--A37 |             | 10277035 | 10/04/10 |
| 34 | 73528--A38 |             | 10277036 | 10/04/10 |
| 35 | 73529--A39 |             | 10277037 | 10/04/10 |
| 36 | 73530--JC1 |             | 10277004 | 10/04/10 |

| #  | Ref        | Description | Drawing# | Date     |
|----|------------|-------------|----------|----------|
| 37 | 73531--JC3 |             | 10277002 | 10/04/10 |
| 38 | 73532--JE4 |             | 10277006 | 10/04/10 |
| 39 | 73533--JH  |             | 10277005 | 10/04/10 |
| 40 | 73534--P1  |             | 10277038 | 10/04/10 |
| 41 | 73535--P2  |             | 10277039 | 10/04/10 |
| 42 | 73536--P3  |             | 10277040 | 10/04/10 |
| 43 | 73537--P17 |             | 10277041 | 10/04/10 |
| 44 | 73538--P24 |             | 10277042 | 10/04/10 |
| 45 | 73539--P26 |             | 10277043 | 10/04/10 |
| 46 | 73540--P28 |             | 10277044 | 10/04/10 |

1006



## 2 COMPLETE TRUSSES REQUIRED

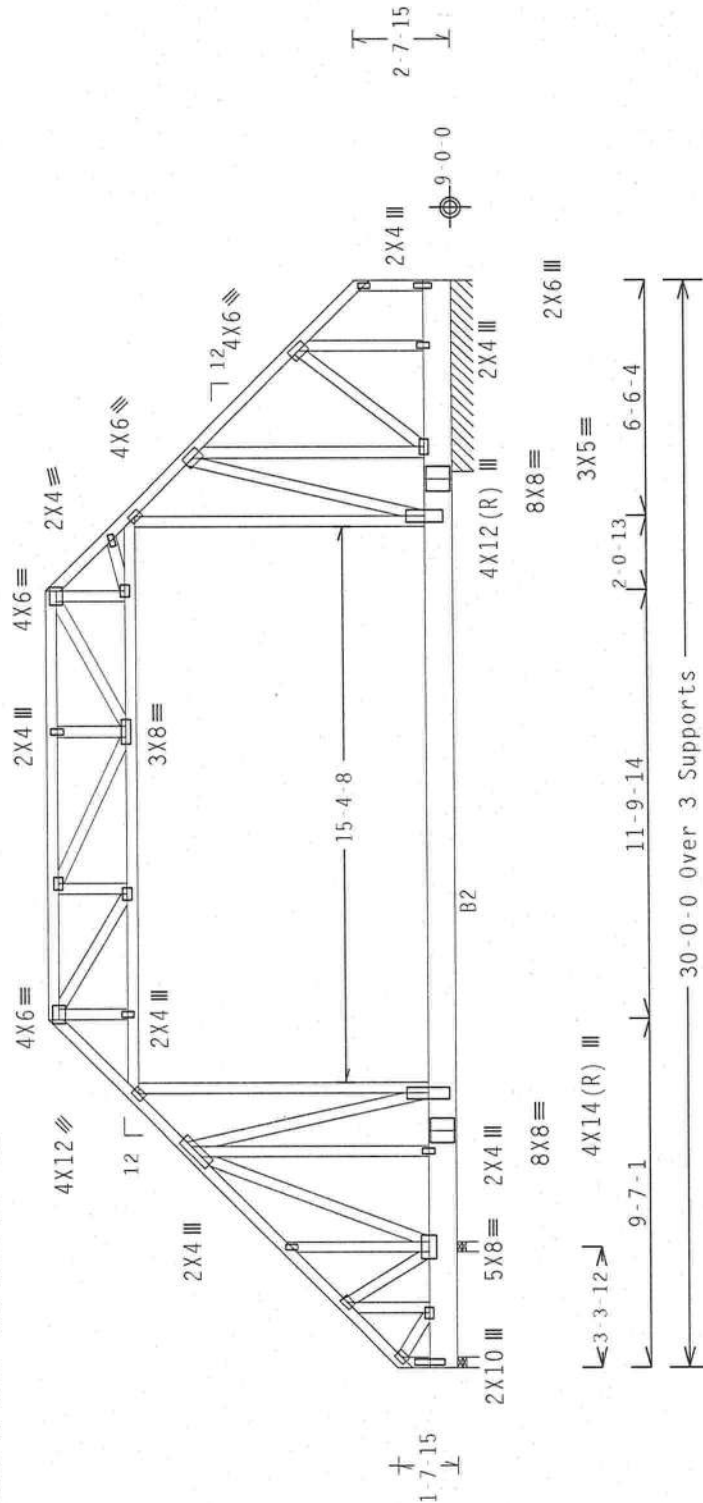
Design Dead Loads based on material weight adjusted for slope: TC: 1.00  
PSF

110 mph wind, 15.46 ft mean ht, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf,  $I_w=1.00$  GCpi(1/-)-0.18

Trusses to be spaced at 36.0" OC maximum.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 7-9-12 to 23-2-4.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC. BC @ 24" OC.



R=66 RW=490 U=483 W=3.5"  
RI=520/509

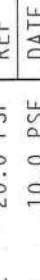
R=658 P1F U=84 P1F W=5-3-8

Note: All plates are 3x4 except as shown.

Design Crit: FBC2007Res/TPI-2002(STD)

00 0075 1.3

PIT TYP. Wave



**ALPINE**

*nw Building Components Group Inc.*

Haines City, FL 33844

TEL COA #02786

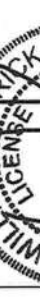
PLT 1P, wave

01/11/2008 (08:10:07)

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI's OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. TITW BCG CONNECTOR PLATES ARE MADE OF 20/110/16GA (H-45/55)FS ASH 6053 GRADE ON THIS DESIGN. POSITION PER DRAWINGS. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. UNLESS ANY INSPECTION OF PLATES FOLLOWED BY (3) SHALL BE PER ABX AS OF 1/11/2009 SEC.3. FOR THE TRUSS, CORROSION DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SHEET FOR THE TRUSS, CORROSION DESIGN SHOWN. THE SOLIDABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Oct 05 '10

|        |             |          |          |       |     |
|--------|-------------|----------|----------|-------|-----|
| REF    | R215--      | 73495    | TC LL    | 20.0  | PSF |
| DATE   | 10/04/10    |          | TC DL    | 10.0  | PSF |
| DRW    | HCUSR215    | 10277019 | BC DL    | 10.0  | PSF |
| HC-ENG | JB/WHK      |          | BC LL    | 0.0   | PSF |
| SEQN-  | 277769      |          | TOT.LD.  | 40.0  | PSF |
| FROM   | CDM         |          | DUR.FAC. | 1.25  |     |
| JREF-  | 1U5R215_Z01 |          | SPACING  | 36.0" |     |



Top chord 2x4 SP #2 N  
Bot chord 2x10 SP #2 N :B2 2x10 SP SS:  
webs 2x4 SP #2 N

(1) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

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

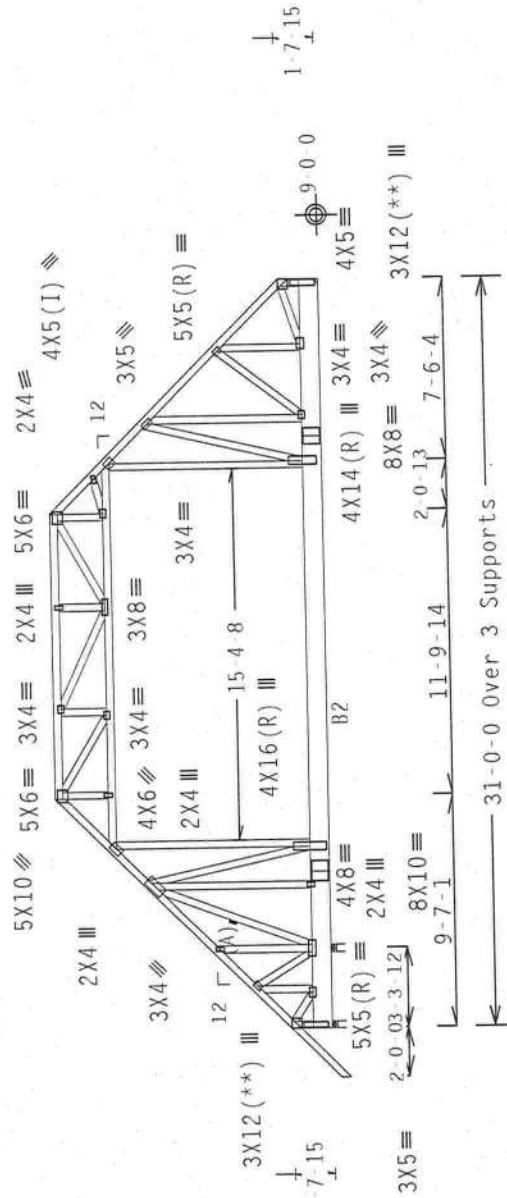
Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

The use of structural panels use nurlins to brace all flat TC @ 24" OC.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

deflection meets 1/360 live and L/240 total load.



R=1950 U=589 W=3.5"  
RI=407/-453

D-055 II-743 W-3.5"

R-2313 U-289

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

$$\text{Scale} = .125" / \text{Ft.}$$

OTY:2

FL/-/5/-/-/R/-

Scale = .125"/Ft.

PIT TYP. Wave

[illegible][illegible]

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

|           | T2 | 2x4 | SP    | SS: |
|-----------|----|-----|-------|-----|
| Top chord | N  | 2x4 | SP #2 |     |
| Bot chord | N  | 2x4 | SP #2 |     |
| Webs      | N  | 2x4 | SP #2 |     |

110 mph wind, 15.25 ft mean hgt., ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCpf(+/-)=0.18

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers.  
Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

(A) Continuous lateral bracing equally spaced on member.

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

The overall height of this truss excluding overhang is 11-3-0.

+ MEMBER TO BE Laterally Braced for Out of Plane Wind Loads. Bracing System to be Designed and Furnished by Others.

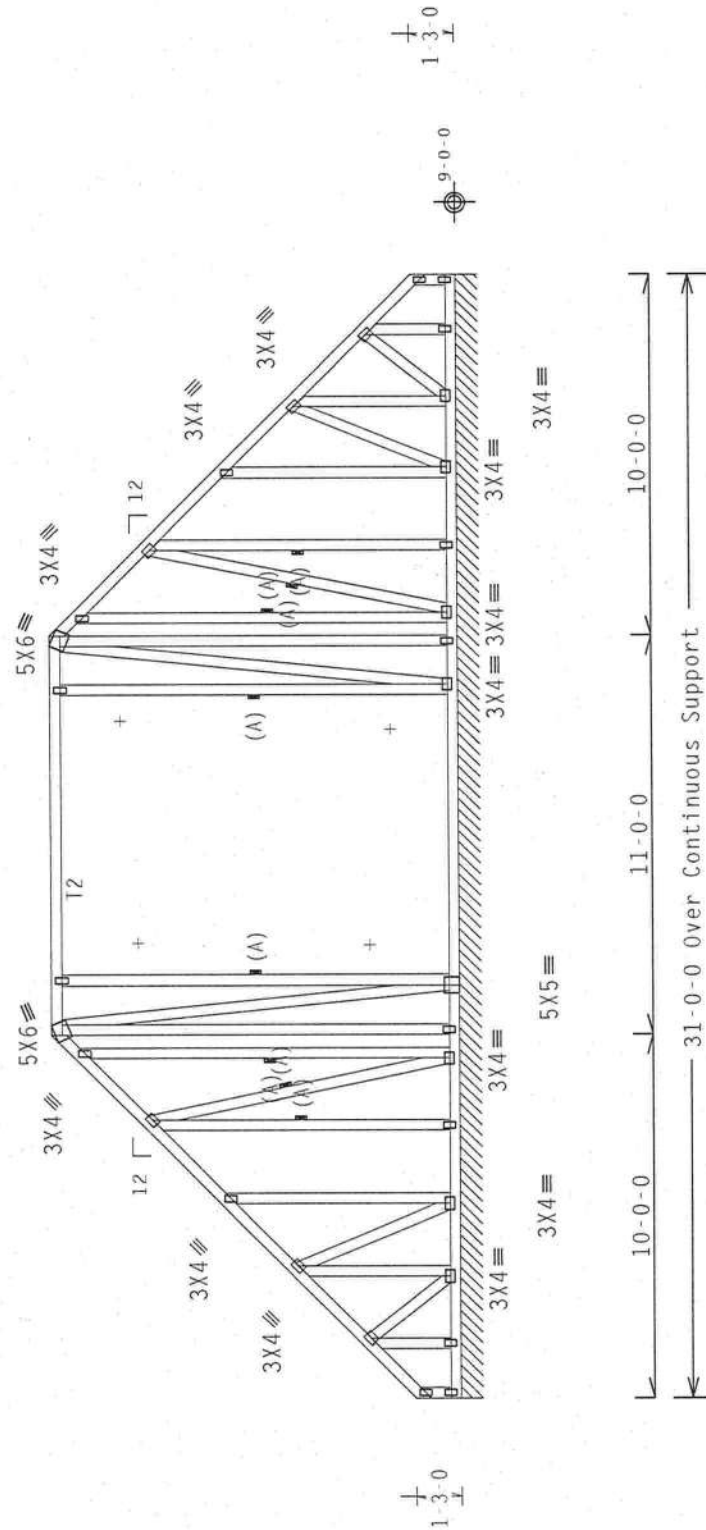
Wind reactions based on MWFRS pressures.

See DWGS A11030050109 & GBLLETIN0109 for more requirements.

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

Deflection meets 1/240 live and L/180 total load.

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



R=130 PLF U=20 PLF W=31.0-0  
RL=12/-12 PLF

Note: All plates are 2x4 except as shown.

Design Crit: FBC2007Res/TPI-2002(ST)

FT/RT=20%(0%)/10(0)

Scale = .1875" / Ft.

QTY:1 FL/-/5/-/-/R/-/

00 Continuum

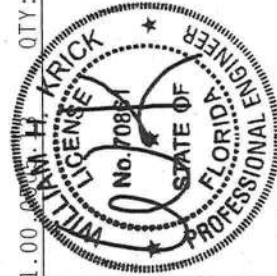
10

ET/PT=20%(0%)/10(0)

design of 10.

DI T TVD

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION, INCLUDING BUT NOT LIMITED TO: (1) CROSS-PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304; AND (2) MICA, 6000 HISS CORCORAN BLVD., WASHINGTON, D.C. 20004. UNLESS OTHERWISE INDICATED, HANSON, INC. 337519 FOR SAFETY PRECISELY SPECIFIED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A MINIMUM DESIGN STRENGTH OF 100,000 LBS. PER SQUARE FOOT OF SURFACE AREA.

[illegible]

Oct 05 '10

JREF- 1U5R215 Z01

SPACING 24.0"

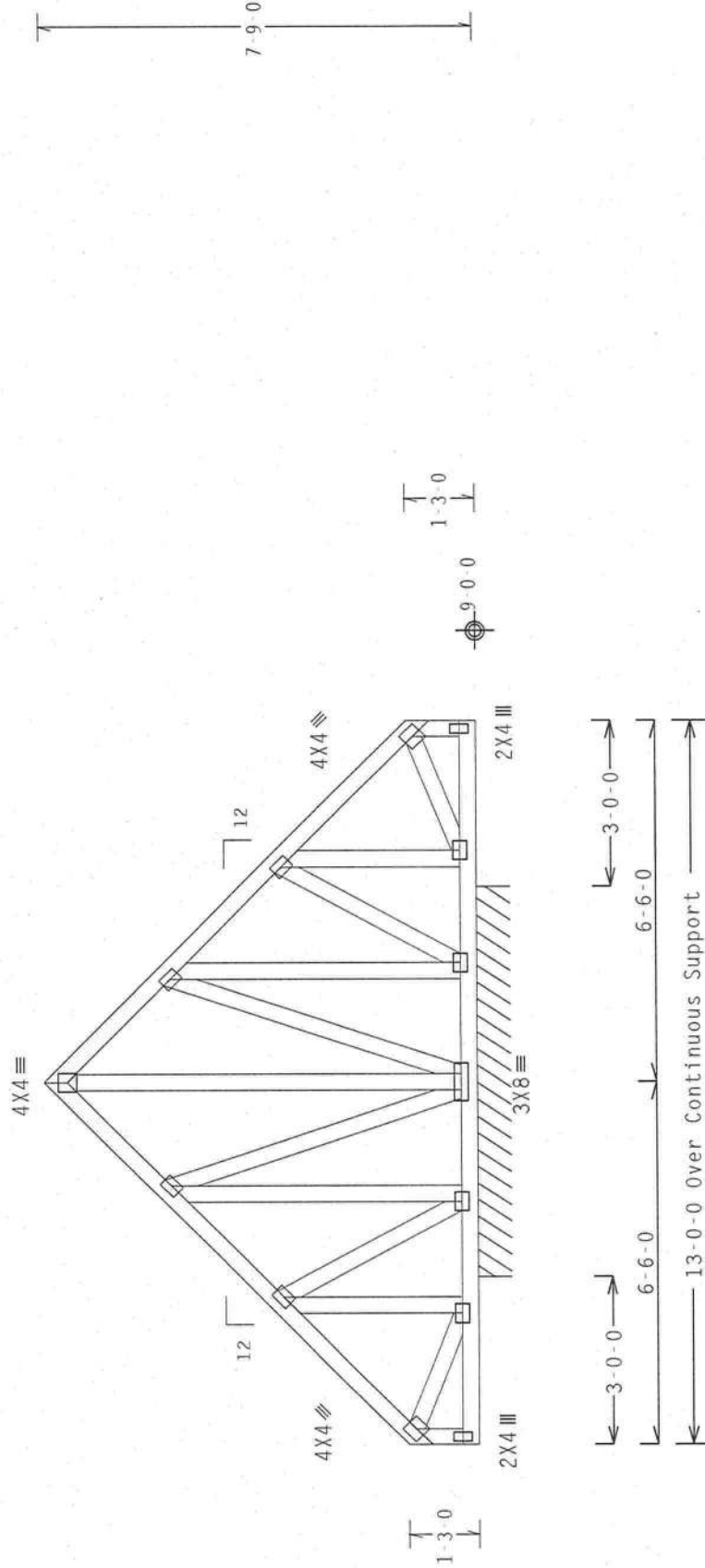
Oct 05 '10

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP SS  
Webs 2x4 SP #2 N

Left and right cantilevers are exposed to wind

Truss spaced at 24.0" OC designed to support 2.0-0 top chord out lookers.  
Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)  
FT/RT=20% (0%)/10 (0)

PLT TYP. Wave

10.01.00

QTY: 1

FL / - / 5 / - / - / R / -

Scale = .3125" / Ft.

|                   |                       |          |
|-------------------|-----------------------|----------|
|                   | REF R215-- 73499      |          |
|                   | DATE                  | 10/04/10 |
|                   | DRW HCUSR215 10277010 |          |
|                   | HC-ENG SSB/WHK        |          |
|                   | SEQN-                 | 276249   |
|                   | FROM CDM              |          |
|                   | TC LL                 | 20.0 PSF |
|                   | TC DL                 | 10.0 PSF |
|                   | BC DL                 | 10.0 PSF |
|                   | BC LL                 | 0.0 PSF  |
|                   | TOT.LD.               | 40.0 PSF |
|                   | DUR.FAC.              | 1.25     |
| SPACING           |                       | 24.0"    |
| JREF- 1U5R215_Z01 |                       |          |

|           |     |    |      |
|-----------|-----|----|------|
| Top chord | 2x4 | SP | #2 N |
| Bot chord | 2x4 | SP | #2 N |
| Web       | 2x4 | SP | #2 N |

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

Left and right cantilevers are exposed to wind

Roof overhang supports 2.00 psf soffit load.

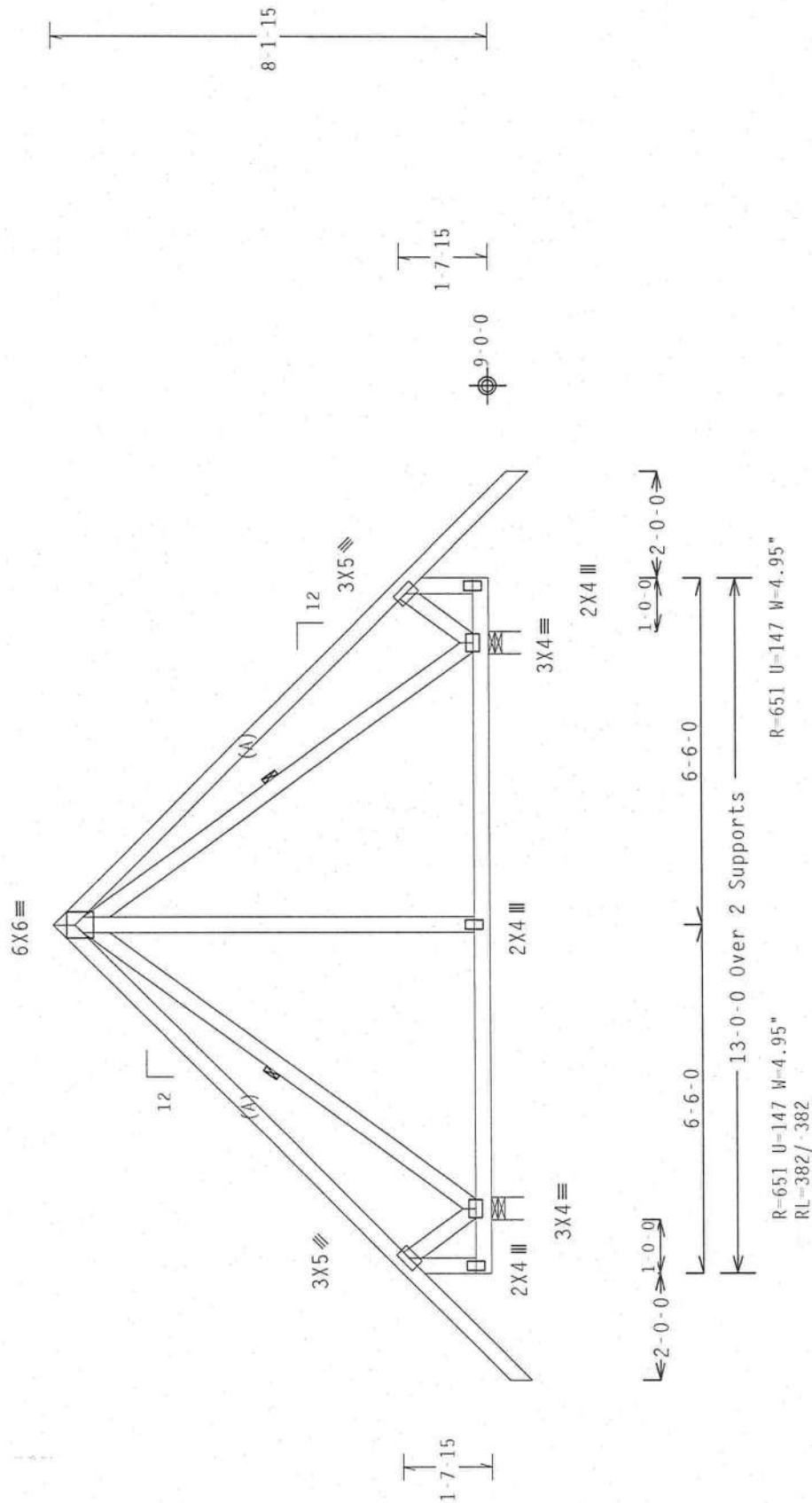
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 8-1-15.

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: FBC2007Res/TPI-2002(STD)

10-01-00-05  
QTY:1 FL/-/5/-/-/R/-  
Scale = .3125"/Ft.

PLT TYP. Wave

...WARNING... THESES PLUMING TO THE CASE IN LABORATION, JOURNALING, SHIPPING, AND BRACING, PUBLISHED BY IPTI (TRESS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND APCA (GROUP TRUSS COUNCIL OF AMERICA, 6300 UNIVERSITY LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL CORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CORDING.

[illegible]

|          |          |        |          |          |
|----------|----------|--------|----------|----------|
| TC LL    | 20.0 PSF | REF    | R215 - - | 73500    |
| TC DL    | 10.0 PSF | DATE   | 10/04/10 |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215 | 10277011 |
| BC LL    | 0.0 PSF  | HC-ENG | SSB/WHK  |          |
| TOT.LD.  | 40.0 PSF | SEQN-  | 276144   |          |
| DUR.FAC. | 1.25     | FROM   | CDM      |          |
| SPACING  | 24.0"    | JREE-  | 1U5R215  | 701      |

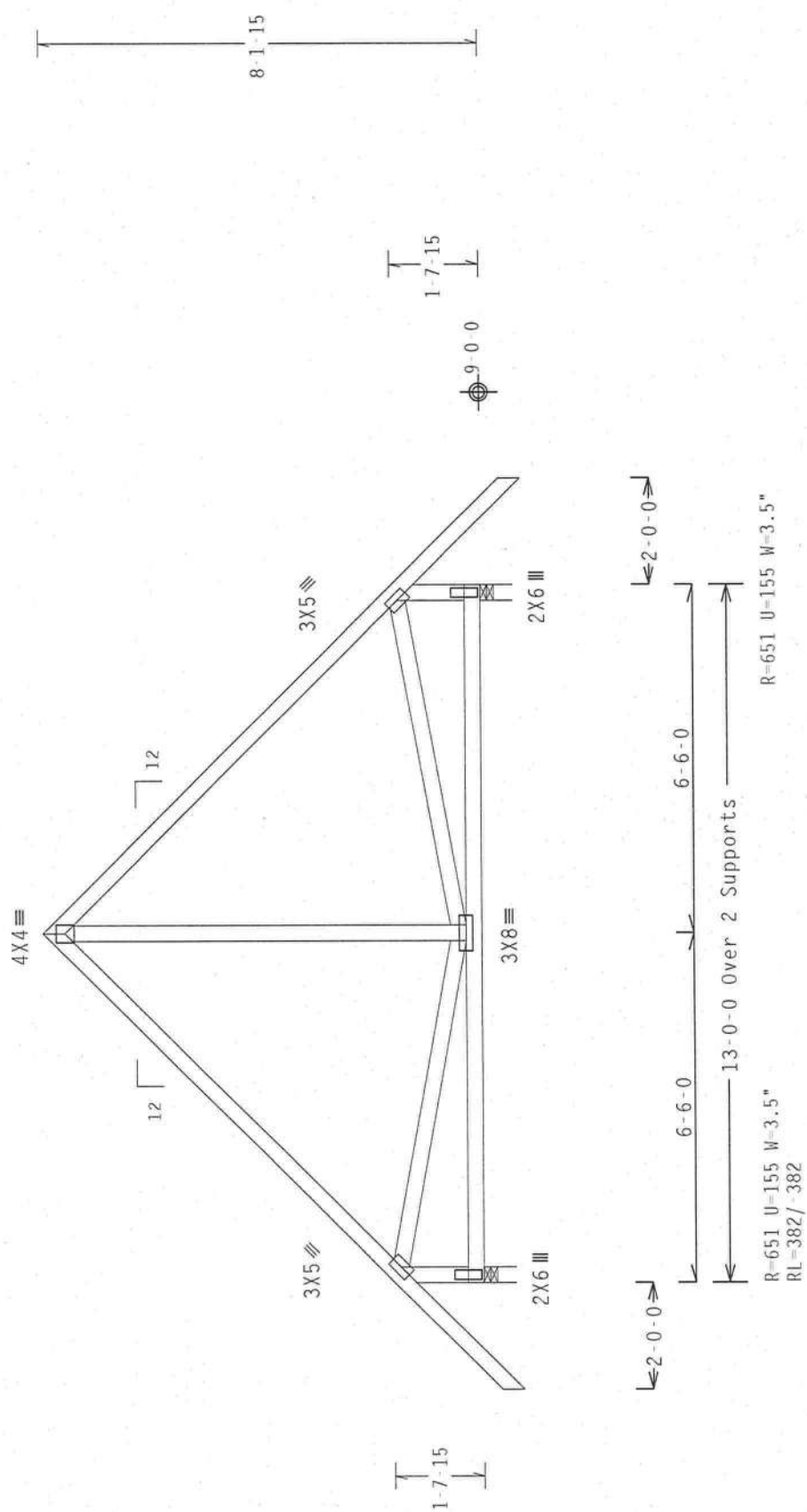
|           |     |    |      |
|-----------|-----|----|------|
| Top chord | 2x4 | SP | #2 N |
| Bot chord | 2x4 | SP | #2 N |
| Webs      | 2x4 | SP | #2 N |

11110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-) 0.18

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non concurrent live load.

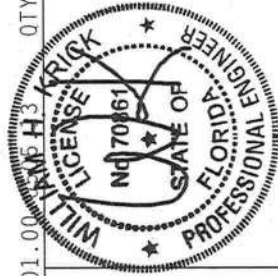
The overall height of this truss excluding overhang is 8.1-15.



Design Crit: FBC2007Res/TPI-2002(STD)

FT/RT=20%(0%)/10(0) 10

Scale = .3125"/Ft.

[illegible][illegible]

Haines City, FL 33844  
FL COA #0278

Haines City, FL 33844  
FL COA #0 278

JREF- 1U5R215\_Z01

SPACING 24.0"

0ct 05 '10

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)0.18

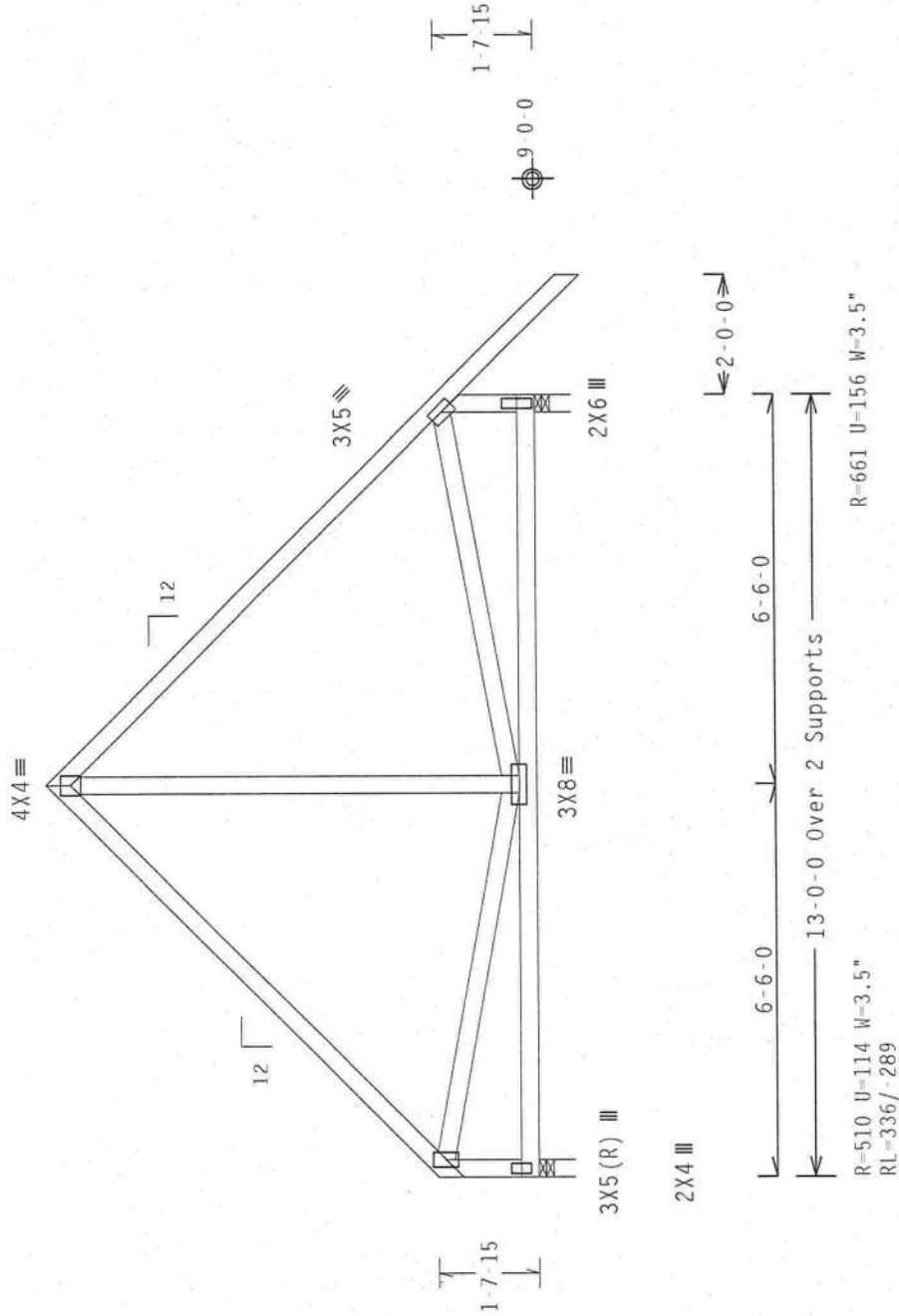
Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

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

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

The overall height of this truss excluding overhang is 8'-1-15".



Design Crit: FBC2007Res/TPI-2002 (STD)  
FT/RT=20% (0%)/10 (0)

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2400 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WELDON (WELDON TRUSS COMPANY, 10000 WELDON DRIVE, WELDON, OHIO 43084) FOR ADDITIONAL INFORMATION. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE OF THE FOLLOWING GRADES: TOP CHORD AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITU BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (INTERNATIONAL BUILDING CODE SPEC, BY AIA/ASCE) AND TPI. ITU BCG CORRELATION PLATES ARE MADE OF 20/18/16GA (H-K/SS/K) ASTM A653 GRADE 40/60 (H, K/PS,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AIA/ASCE 3.0 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPANY'S BUILDING DESIGNER. THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/ASCE 3.0 SEC. 2.

PLT TYP. Wave



|           |                            |                      |
|-----------|----------------------------|----------------------|
| QTY: 1    | FL / - / 5 / - / - / R / - | Scale = .3125" / Ft. |
| TC LL     | 20.0 PSF                   | REF R215 - 73502     |
| TC DL     | 10.0 PSF                   | DATE 10/04/10        |
| BC DL     | 10.0 PSF                   | DRW HCUR215 10277014 |
| BC LL     | 0.0 PSF                    | HC-ENG JB/WHK *      |
| TOT. LD.  | 40.0 PSF                   | SEQN - 276773        |
| DUR. FAC. | 1.25                       | FROM CDM             |
| SPACING   | 24.0"                      | JREF - 1U5R215_Z01   |

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

P=4371 H=0.44 W=3.5"  
R=3759 H=812 W=3.5"

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

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

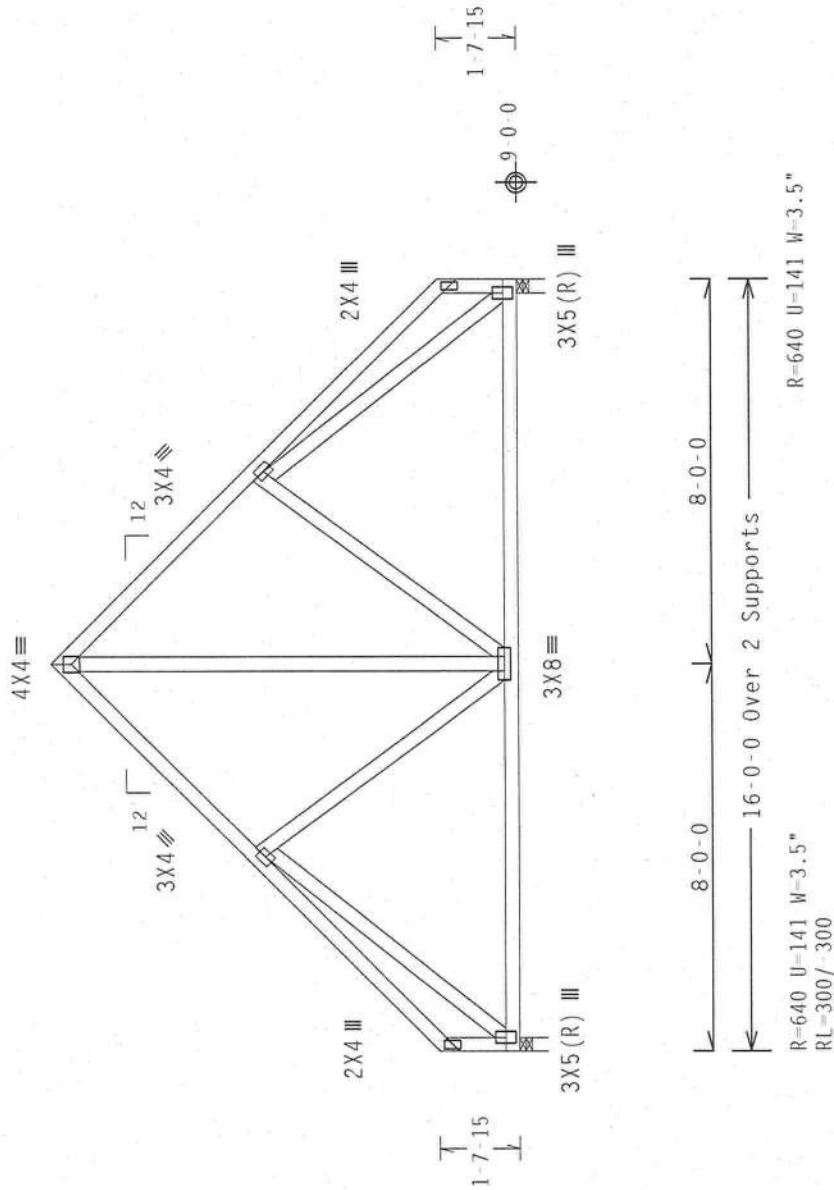
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located  
anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0  
psf, lw=1.00 GCpi(+/-)-0.18

Bottom chord checked for 10.00 psf non concurrent live load.

Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 9'-7-15.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)

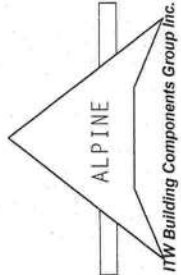
FT/RT=20%(0%)/10(0)

10.01.00

QTY:1

FL/-/5/-/-/R/-

Scale = .25"/Ft.

|                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| <br><b>ALPINE</b><br><br><b>nTW Building Components Group Inc.</b><br>Haines City, FL 33844<br>FL COA #0278 | <b>***WARNING***</b> THUSSES ROUTED TO THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS DESIGNER'S LIABILITY. THE TRUSS DESIGNER'S LIABILITY IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                                                                                                                                                                                                  | <b>***IMPORTANT***</b> FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS DESIGNER'S LIABILITY. THE TRUSS DESIGNER'S LIABILITY IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |
|                                                                                                                                                                                                  | REFER TO BEST AVAILABLE TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. TRUSS MANUFACTURING PRACTICES, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 1. 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|     |       |     |    |    |   |
|-----|-------|-----|----|----|---|
| Top | chord | 2x4 | SP | #2 | N |
| Bot | chord | 2x4 | SP | #2 | N |
|     | Webs  | 2x4 | SP | #2 | N |

1110 mph wind, 15.00 ft mean hgt., ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18

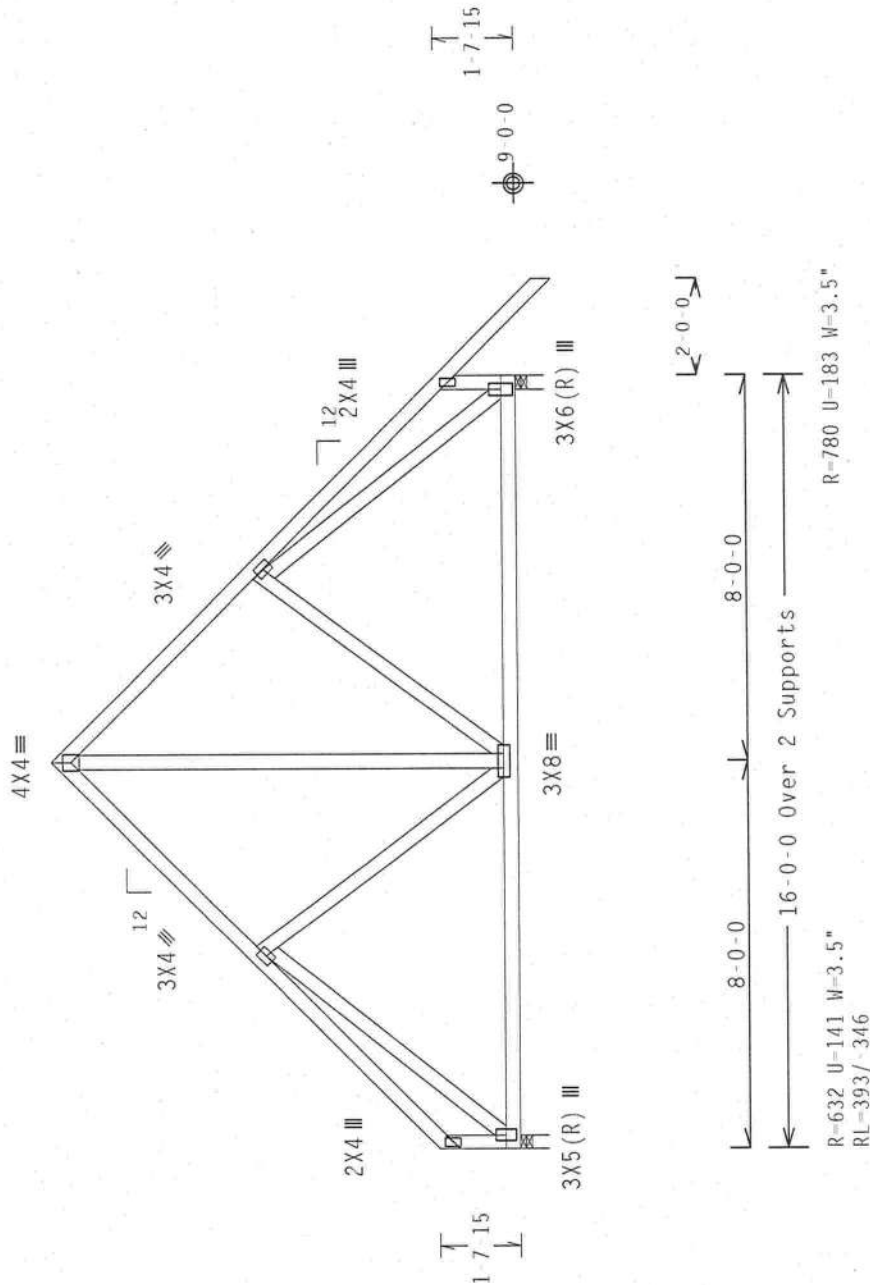
Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non concurrent live load.

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

The overall height of this truss excluding overhang is 9-7-15.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)

6C2007Res/FT=2002 (0)  
FT/RT=20% (0%) / 10 (0)

10.01.00.

QTY:1

FL/-/5/-/-/R/-/-

Scale = .25"/Ft.

[illegible][illegible]

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

JREF- 1U5R215\_Z01

JREF- 1U5A

SPACING 24.0"

SPACING

SPACING 24.0"

SPACING 24.0"

SPACING 24.0"

|           |     |    |      |
|-----------|-----|----|------|
| Top chord | 2x4 | SP | #2 N |
| Bot chord | 2x4 | SP | #2 N |
| Web       | 2x4 | SP | #2 N |

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

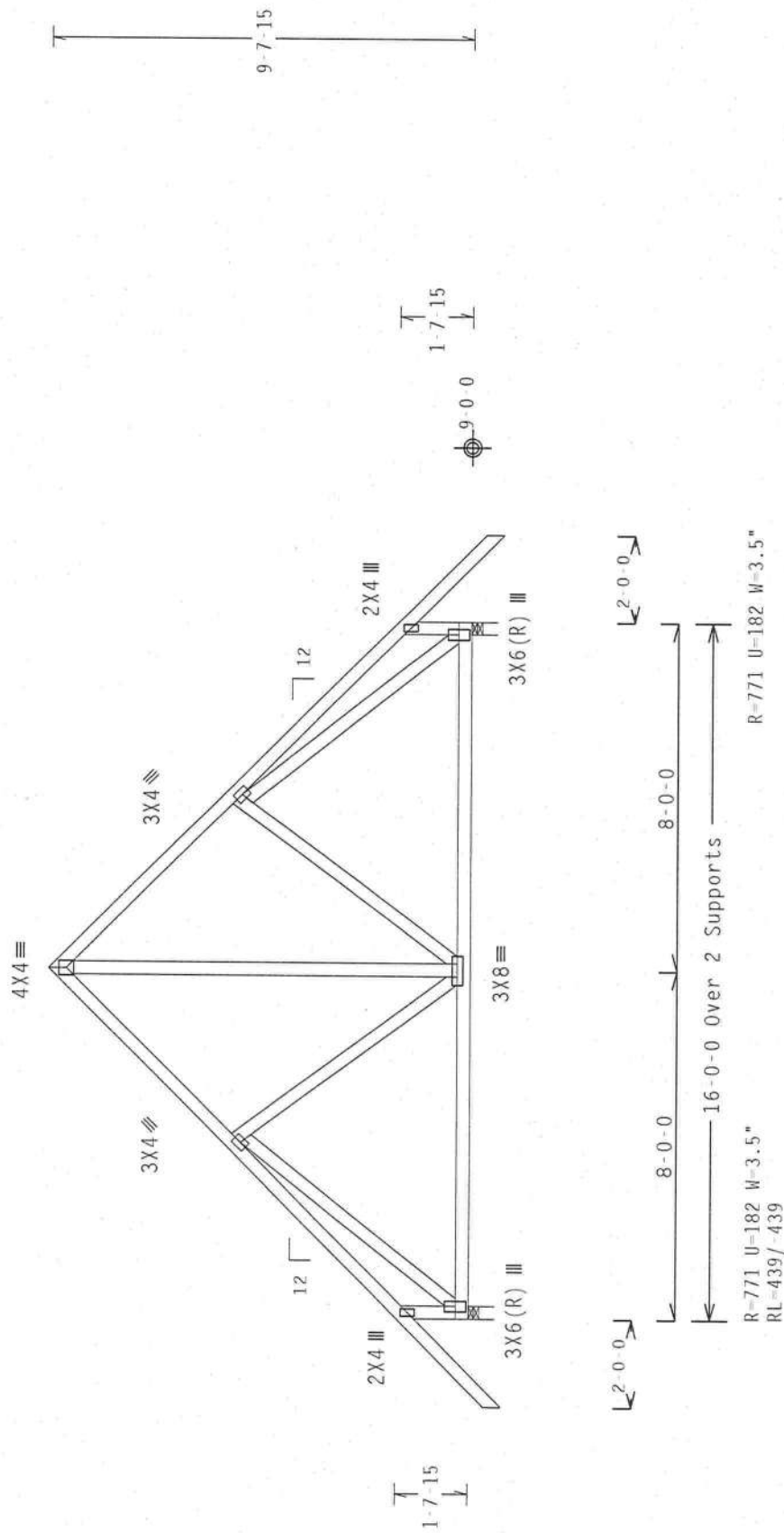
Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

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

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

The overall height of this truss excluding overhang is 9-7-15.

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

10.01.00

OTY: 4

E11-151-1-1R1-

Scale = .25"/Ft.

**WARNING:** THUSSE'S BROTHER EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, TESTING AND BRACING REFER TO BEST BUILDING COMPONENT SAFETY. THE FOLLOWING, PUBLISHED BY IPT (PROCESS PLANT INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALX 53201), HAS BEEN REPRODUCED BY THE COMPANY OF AMERICA, 6300 ENTERPRISE LANE, SUITE 110, WY 52719, FOR SALES PURPOSES, PRIOR TO REPRODUCING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. NO CHILD SHALL HAVE PROPERLY ATTACHED STRIP LIP, PANELS AND NOT A CHILD SHALL HAVE PROPERLY ATTACHED RIGID CHAIR.

REF R215-- 73506

DATE 10/04/10

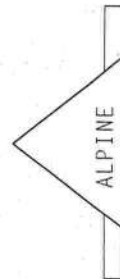
DRW HCUSR215 10277009

HC-ENG SSB/WHK

SEQN- 276147

FROM CDM

REF- 1U5R215 Z01



ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

Oct 05 10

|           | Top chord | 2x4 | SP | #2    | N |
|-----------|-----------|-----|----|-------|---|
| Bot chord | 2x4       | SP  | #2 | Dense |   |
| Webbs     | 2x4       | SP  | #2 | N     |   |

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24" OC designed to support 2-0-0 top chord outlookers.  
Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

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

Fasten rated sheathing to one face of this frame.

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

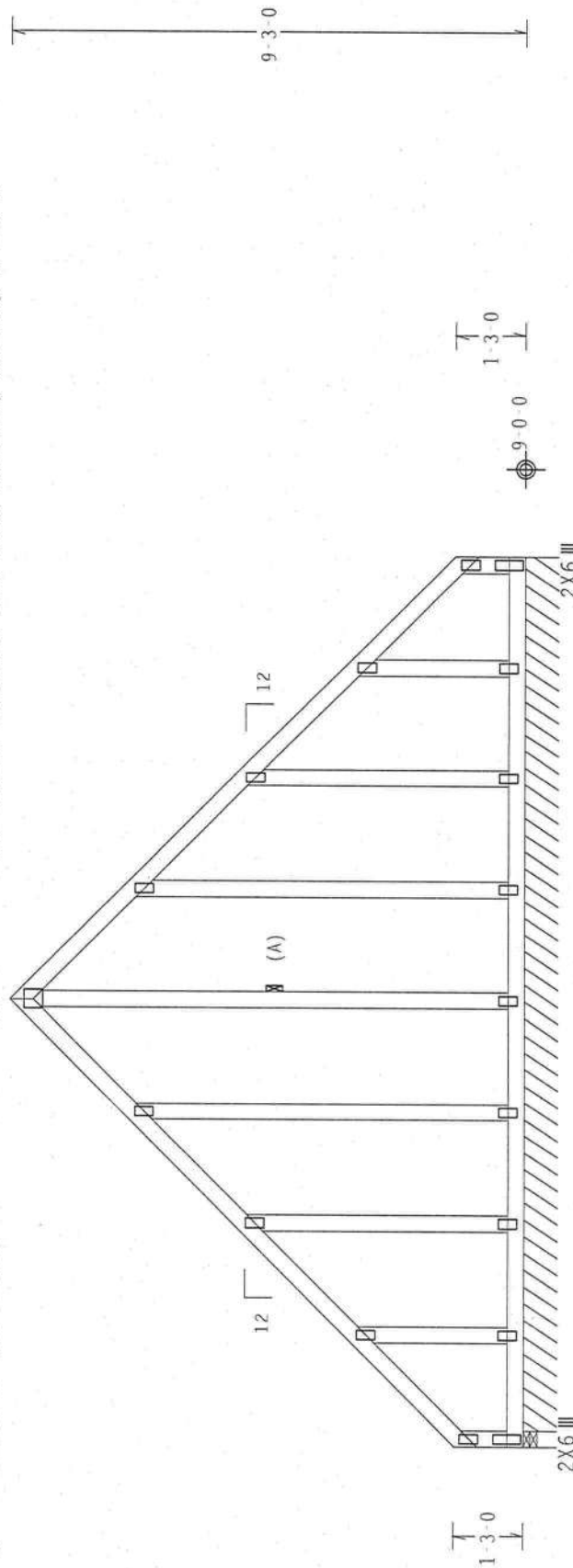
Wind reactions based on MWFRS pressures.

See DWGS A11015050109 & GBLLET1N0109 for more requirements.

(A) Continuous lateral bracing equally spaced on member.

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

The overall height of this truss excluding overhang is 9.30.



R=124 PLF U=45 PLF W=15-8-8

8.0-0      8.0-0

16.0-0 Over 2 Supports

R=126 RW=461 U=381 W=3.5"  
RL=600/-600

Note: All Plates Are 2X4 Except As Shown.

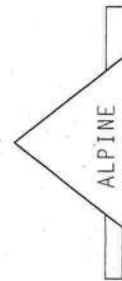
Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave

10.01.00.

QTY:1 FL/-15/-1-1R/-

Scale = .3125"/Ft.



ITW Building Components Group Inc.

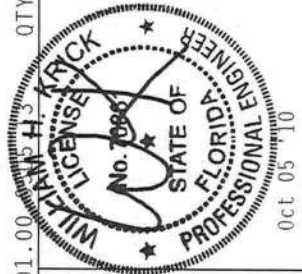
Haines City, FL 33844

FL COA #0 278

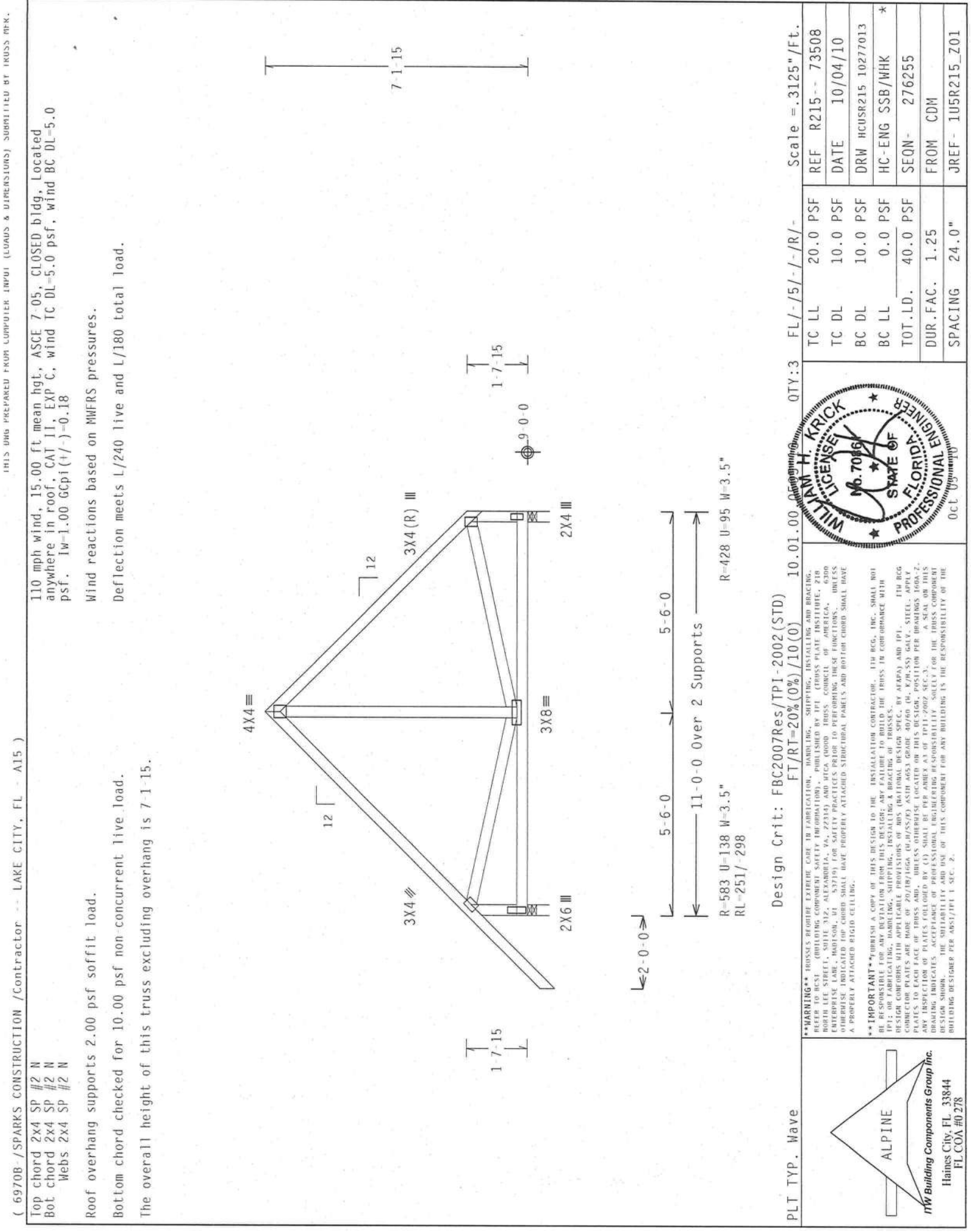
**\*\*WARNING\*\*** THOMSONS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION, AND PUBLISHED BY THE (BRUSS PLATE INSTALLATION, 2310 STREET, SUITE 100, ALFRED, ALA. 36310) AND ALFA (BRUSS THOMSONS, 6300 STREET, SUITE 100, ALFRED, ALA. 36310) LICENSEE. BRUSS THOMSONS PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. THE THOMSONS HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND MUST CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHORDS.

**\*\*IMPORTANT\*\***\*TURNISH 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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE BCG, INC., SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS OR THE FAILURE OF THE TRUSS TO SUPPORT THE LOADS. THE BCG, INC., SHALL NOT BE RESPONSIBLE FOR THE FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

THIS BEGINS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND THE  
CONNECTION PLATES ARE MADE OF 20/19/18 GAU (1/2/25/25) ATOM 4060 (A, K/H-55) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.  
IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF 17/11/2002 SEC. 2.  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
DESIGN ENGINEER PER ARTICLE 1 SEC. 2.



|         |       |      |     |        |                  |
|---------|-------|------|-----|--------|------------------|
| TC      | LL    | 20.0 | PSF | REF    | R215 - - 73507   |
| TC      | DL    | 10.0 | PSF | DATE   | 10/04/10         |
| BC      | DL    | 10.0 | PSF | DRW    | HCUR215 10277001 |
| BC      | LL    | 0.0  | PSF | HC-ENG | SSB/WHK          |
| TOT.    | LD.   | 40.0 | PSF | SEQN - | 276252           |
| DUR.    | FAC.  | 1.25 |     | FROM   | CDM              |
| SPACING | 24.0" |      |     | JREF - | 1U5R215_Z01      |



|     |       |     |    |    |   |
|-----|-------|-----|----|----|---|
| Top | chord | 2x4 | SP | #2 | N |
| Bot | chord | 2x4 | SP | #2 | N |
|     | webs  | 2x4 | SP | #2 | N |

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

Truss spaced at 24.0" OC designed to support 2.0.0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

Wind reactions based on MWFRS pressures.

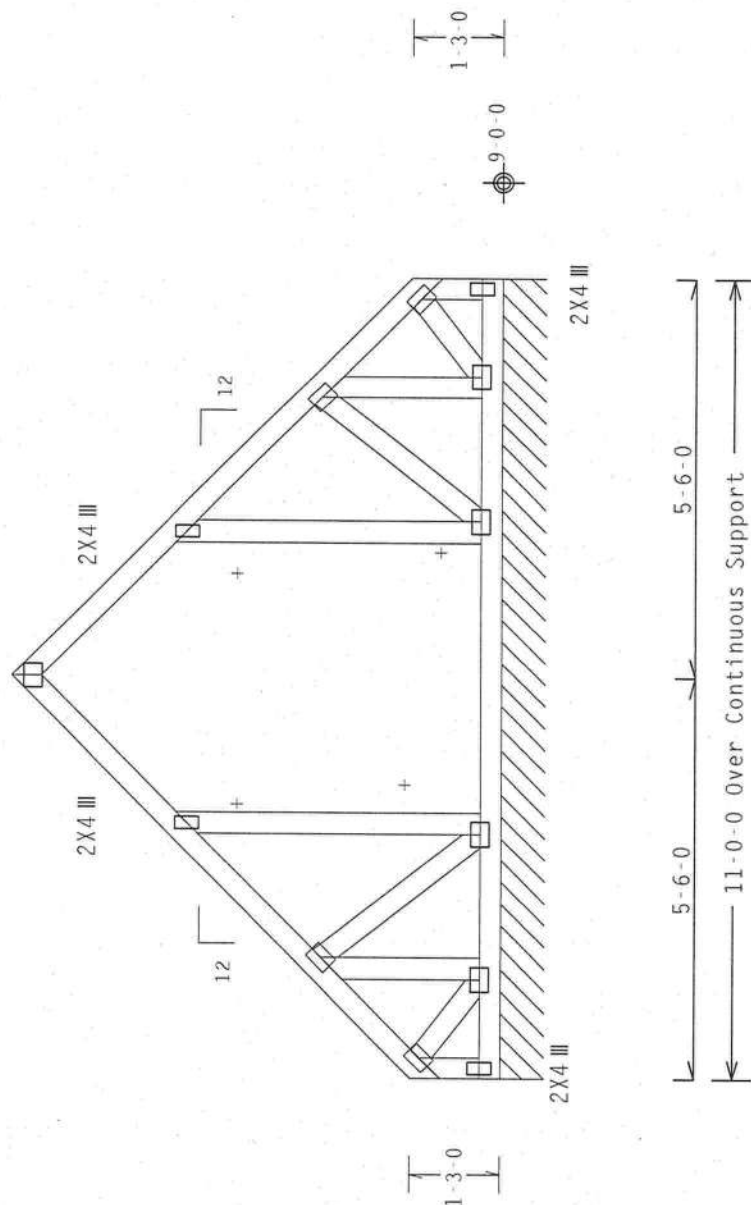
See DWGS A11015050109 & GBLLETIN0109 for more requirements.

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

Deflection meets 1/240 live and 1/180 total load.

The overall height of this truss excluding overhang is 6-9-0.

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.



R=130 PLF U=17 PLF W=11-0-0  
RI=19/-19 PLF

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

LT TYP. Wave

10

0TV.1 EI 1-15/1-15/1-

20210 - 27E" / E+

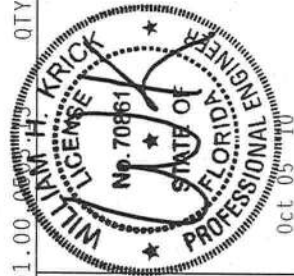
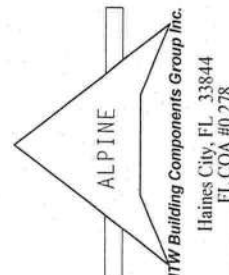
\*HARRIS\*\* THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC-SI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPUS (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 1001 HARTWELL DRIVE, WINTER HAVEN, FL 33884) FOR SAFE FABRICATION PRACTICES. UNLESS OTHERWISE LABELED, MANUFACTURER'S (MFG) NUMBER (MFG NO.) SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE IDENTIFICATION TAGS. UNLESS OTHERWISE INDICATED, NO CHORD SHALL BE CUT OR NOTCHED.

**\*IMPORTANT\***—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITU BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH THE TYPICAL DRAWING WILL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ITU BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FABRICATING, HANDLING, SHIPPING, INSTALLING, & BRACING OF TUBES.

CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. (BY AISC) AND TPI.

CONNECTION PLATES ARE MADE OF 2017/19T6G6 (W/55%ZIN) GRADE 40/60 (H. W/55%ZIN) GALV. STEEL. APPLY AN ANTI-CORROSION PROTECTANT TO ALL EXPOSED SURFACES OF THE TROSS AND CONNECTION PLATES.

UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T60A-2, T60A-3, T60A-4, T60A-5, T60A-6, T60A-7, T60A-8, T60A-9, T60A-10, T60A-11, T60A-12, T60A-13, T60A-14, T60A-15, T60A-16, T60A-17, T60A-18, T60A-19, T60A-20, T60A-21, T60A-22, T60A-23, T60A-24, T60A-25, T60A-26, T60A-27, T60A-28, T60A-29, T60A-30, T60A-31, T60A-32, T60A-33, T60A-34, T60A-35, T60A-36, T60A-37, T60A-38, T60A-39, T60A-40, T60A-41, T60A-42, T60A-43, T60A-44, T60A-45, T60A-46, T60A-47, T60A-48, T60A-49, T60A-50, T60A-51, T60A-52, T60A-53, T60A-54, T60A-55, T60A-56, T60A-57, T60A-58, T60A-59, T60A-60, T60A-61, T60A-62, T60A-63, T60A-64, T60A-65, T60A-66, T60A-67, T60A-68, T60A-69, T60A-70, T60A-71, T60A-72, T60A-73, T60A-74, T60A-75, T60A-76, T60A-77, T60A-78, T60A-79, T60A-80, T60A-81, T60A-82, T60A-83, T60A-84, T60A-85, T60A-86, T60A-87, T60A-88, T60A-89, T60A-90, T60A-91, T60A-92, T60A-93, T60A-94, T60A-95, T60A-96, T60A-97, T60A-98, T60A-99, T60A-100, T60A-101, T60A-102, T60A-103, T60A-104, T60A-105, T60A-106, T60A-107, T60A-108, T60A-109, T60A-110, T60A-111, T60A-112, T60A-113, T60A-114, T60A-115, T60A-116, T60A-117, T60A-118, T60A-119, T60A-120, T60A-121, T60A-122, T60A-123, T60A-124, T60A-125, T60A-126, T60A-127, T60A-128, T60A-129, T60A-130, T60A-131, T60A-132, T60A-133, T60A-134, T60A-135, T60A-136, T60A-137, T60A-138, T60A-139, T60A-140, T60A-141, T60A-142, T60A-143, T60A-144, T60A-145, T60A-146, T60A-147, T60A-148, T60A-149, T60A-150, T60A-151, T60A-152, T60A-153, T60A-154, T60A-155, T60A-156, T60A-157, T60A-158, T60A-159, T60A-160, T60A-161, T60A-162, T60A-163, T60A-164, T60A-165, T60A-166, T60A-167, T60A-168, T60A-169, T60A-170, T60A-171, T60A-172, T60A-173, T60A-174, T60A-175, T60A-176, T60A-177, T60A-178, T60A-179, T60A-180, T60A-181, T60A-182, T60A-183, T60A-184, T60A-185, T60A-186, T60A-187, T60A-188, T60A-189, T60A-190, T60A-191, T60A-192, T60A-193, T60A-194, T60A-195, T60A-196, T60A-197, T60A-198, T60A-199, T60A-200, T60A-201, T60A-202, T60A-203, T60A-204, T60A-205, T60A-206, T60A-207, T60A-208, T60A-209, T60A-210, T60A-211, T60A-212, T60A-213, T60A-214, T60A-215, T60A-216, T60A-217, T60A-218, T60A-219, T60A-220, T60A-221, T60A-222, T60A-223, T60A-224, T60A-225, T60A-226, T60A-227, T60A-228, T60A-229, T60A-230, T60A-231, T60A-232, T60A-233, T60A-234, T60A-235, T60A-236, T60A-237, T60A-238, T60A-239, T60A-240, T60A-241, T60A-242, T60A-243, T60A-244, T60A-245, T60A-246, T60A-247, T60A-248, T60A-249, T60A-250, T60A-251, T60A-252, T60A-253, T60A-254, T60A-255, T60A-256, T60A-257, T60A-258, T60A-259, T60A-260, T60A-261, T60A-262, T60A-263, T60A-264, T60A-265, T60A-266, T60A-267, T60A-268, T60A-269, T60A-270, T60A-271, T60A-272, T60A-273, T60A-274, T60A-275, T60A-276, T60A-277, T60A-278, T60A-279, T60A-280, T60A-281, T60A-282, T60A-283, T60A-284, T60A-285, T60A-286, T60A-287, T60A-288, T60A-289, T60A-290, T60A-291, T60A-292, T60A-293, T60A-294, T60A-295, T60A-296, T60A-297, T60A-298, T60A-299, T60A-300, T60A-301, T60A-302, T60A-303, T60A-304, T60A-305, T60A-306, T60A-307, T60A-308, T60A-309, T60A-310, T60A-311, T60A-312, T60A-313, T60A-314, T60A-315, T60A-316, T60A-317, T60A-318, T60A-319, T60A-320, T60A-321, T60A-322, T60A-323, T60A-324, T60A-325, T60A-326, T60A-327, T60A-328, T60A-329, T60A-330, T60A-331, T60A-332, T60A-333, T60A-334, T60A-335, T60A-336, T60A-337, T60A-338, T60A-339, T60A-340, T60A-341, T60A-342, T60A-343, T60A-344, T60A-345, T60A-346, T60A-347, T60A-348, T60A-349, T60A-350, T60A-351, T60A-352, T60A-353, T60A-354, T60A-355, T60A-356, T60A-357, T60A-358, T60A-359, T60A-360, T60A-361, T60A-362, T60A-363, T60A-364, T60A-365, T60A-366, T60A-367, T60A-368, T60A-369, T60A-370, T60A-371, T60A-372, T60A-373, T60A-374, T60A-375, T60A-376, T60A-377, T60A-378, T60A-379, T60A-380, T60A-381, T60A-382, T60A-383, T60A-384, T60A-385, T60A-386, T60A-387, T60A-388, T60A-389, T60A-390, T60A-391, T60A-392, T60A-393, T60A-394, T60A-395, T60A-396, T60A-397, T60A-398, T60A-399, T60A-400, T60A-401, T60A-402, T60A-403, T60A-404, T60A-405, T60A-406, T60A-407, T60A-408, T60A-409, T60A-410, T60A-411, T60A-412, T60A-413, T60A-414, T60A-415, T60A-416, T60A-417, T60A-418, T60A-419, T60A-420, T60A-421, T60A-422, T60A-423, T60A-424, T60A-425, T60A-426, T60A-427, T60A-428, T60A-429, T60A-430, T60A-431, T60A-432, T60A-433, T60A-434, T60A-435, T60A-436, T60A-437, T60A-438, T60A-439, T60A-440, T60A-441, T



|          |       |     |        |             |          |
|----------|-------|-----|--------|-------------|----------|
| TC LL    | 20.0  | PSF | REF    | R215--      | 73509    |
| TC DL    | 10.0  | PSF | DATE   | 10/04/10    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR215    | 10277045 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/WHK      |          |
| TOT.LD.  | 40.0  | PSF | SEON-  | 278006      |          |
| DUR.FAC. | 1.25  |     | FROM   | CDM         |          |
| SPACING  | 24.0" |     | JREF-  | 1U5R215_Z01 |          |

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

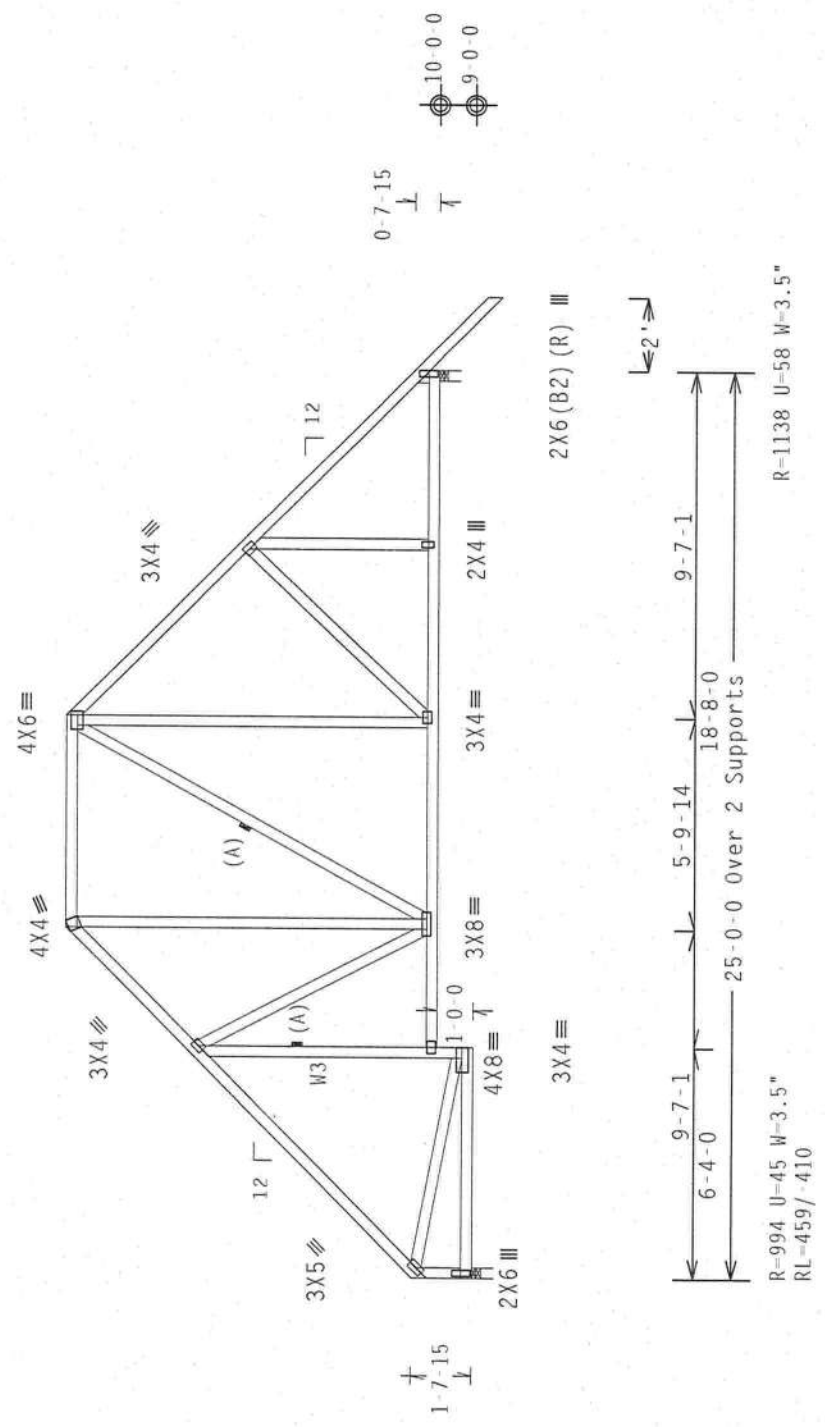
Drift overlying currents 2.00 sec. off: 1.44

(A) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Bottom chord checked for 10.00 psf non-concurrent live load.

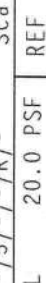
The overall height of this truss excluding overhang is 11'-3"-0".

WWFRS loads based on trusses located at least 15.00 ft. from roof edge.



Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave



ALPINE

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

design CRIT: FBC2007/RES/1P1-200Z(SID)

FT/RT=20%(0%)/10(0)

10.01.00 QTY:1 FL/-/5/-/-R/-

Scale = .1875"/Ft.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |          |     |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|-----|--------|-------|--|-------|----------|------|----------|--|--|-------|----------|-----|----------|----------|--|-------|---------|--------|--------|--|---|---------|----------|-------|--------|--|--|----------|------|------|-----|--|--|---------|-------|-------|-------------|--|--|
| <p><b>**WARNING**</b> THUSSES BECAME EXTERIOR GORE IN FABRICATION, HARDING, SHIPPING, INSTALLING AND BRACING. THE TRUSS BECAME A BUILDING COMPONENT INFORMATION. PUBLISHED BY IPT (THUSS PLATE INSTITUTE, 218 WOODBERRY RD., ALEXANDRIA, VA, 22314) AND WFLA (WOOD THUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HARTSDALE, IL 60530). THESE THUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.</p> <p><b>**IMPORTANT**</b> TURN IN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 1TH BEG, 1THC, 1THD, 1THI, 1THJ, OR FABRICATING, HARDING, SHIPPING, INSTALLING &amp; BRACING OF THUSSES.</p> <p>DESIGN COR CORNERS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC, BY AREA) AND IPT. 1TH BEG CONNECTOR PLATES ARE MADE OF 2018/16GA (14-H/55/P) AISC A653 GRADE 40/60 (44, 47/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF THUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA A3 OF IPT1-200Z SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEAL FOR THE THUSS COMPONENT DESIGN SHOWN. THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AREA IPT1 SEC. 2.</p> |  | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">TC LL</td> <td style="width: 15%;">20.0 PSF</td> <td style="width: 15%;">REF</td> <td style="width: 15%;">R215--</td> <td style="width: 15%;">73510</td> <td style="width: 20%;"></td> </tr> <tr> <td>TC DL</td> <td>10.0 PSF</td> <td>DATE</td> <td>10/04/10</td> <td></td> <td></td> </tr> <tr> <td>BC DL</td> <td>10.0 PSF</td> <td>DRW</td> <td>HCUSR215</td> <td>10277017</td> <td></td> </tr> <tr> <td>BC LL</td> <td>0.0 PSF</td> <td>HC-ENG</td> <td>JB/WHK</td> <td></td> <td>*</td> </tr> <tr> <td>TOT.LD.</td> <td>40.0 PSF</td> <td>SEQN-</td> <td>277972</td> <td></td> <td></td> </tr> <tr> <td>DUR.FAC.</td> <td>1.25</td> <td>FROM</td> <td>CDM</td> <td></td> <td></td> </tr> <tr> <td>SPACING</td> <td>24.0"</td> <td>JREF-</td> <td>1U5R215_Z01</td> <td></td> <td></td> </tr> </table> | TC LL       | 20.0 PSF | REF | R215-- | 73510 |  | TC DL | 10.0 PSF | DATE | 10/04/10 |  |  | BC DL | 10.0 PSF | DRW | HCUSR215 | 10277017 |  | BC LL | 0.0 PSF | HC-ENG | JB/WHK |  | * | TOT.LD. | 40.0 PSF | SEQN- | 277972 |  |  | DUR.FAC. | 1.25 | FROM | CDM |  |  | SPACING | 24.0" | JREF- | 1U5R215_Z01 |  |  |
| TC LL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20.0 PSF                                                                            | REF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | R215--      | 73510    |     |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |
| TC DL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10.0 PSF                                                                            | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10/04/10    |          |     |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |
| BC DL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10.0 PSF                                                                            | DRW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HCUSR215    | 10277017 |     |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |
| BC LL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0 PSF                                                                             | HC-ENG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | JB/WHK      |          | *   |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |
| TOT.LD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 40.0 PSF                                                                            | SEQN-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 277972      |          |     |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |
| DUR.FAC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.25                                                                                | FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CDM         |          |     |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |
| SPACING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24.0"                                                                               | JREF-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1U5R215_Z01 |          |     |        |       |  |       |          |      |          |  |  |       |          |     |          |          |  |       |         |        |        |  |   |         |          |       |        |  |  |          |      |      |     |  |  |         |       |       |             |  |  |

|     | Top   | chord | 2x4 | SP | #2 | N |
|-----|-------|-------|-----|----|----|---|
| Bot | chord | 2x4   | SP  | #2 | N  |   |
|     |       | Weds  | 2x4 | SP | #2 | N |
| :Rt | Wedge | 2x4   | SP  | #2 | N  |   |

110 mph wind, 15.46 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCpi(+)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

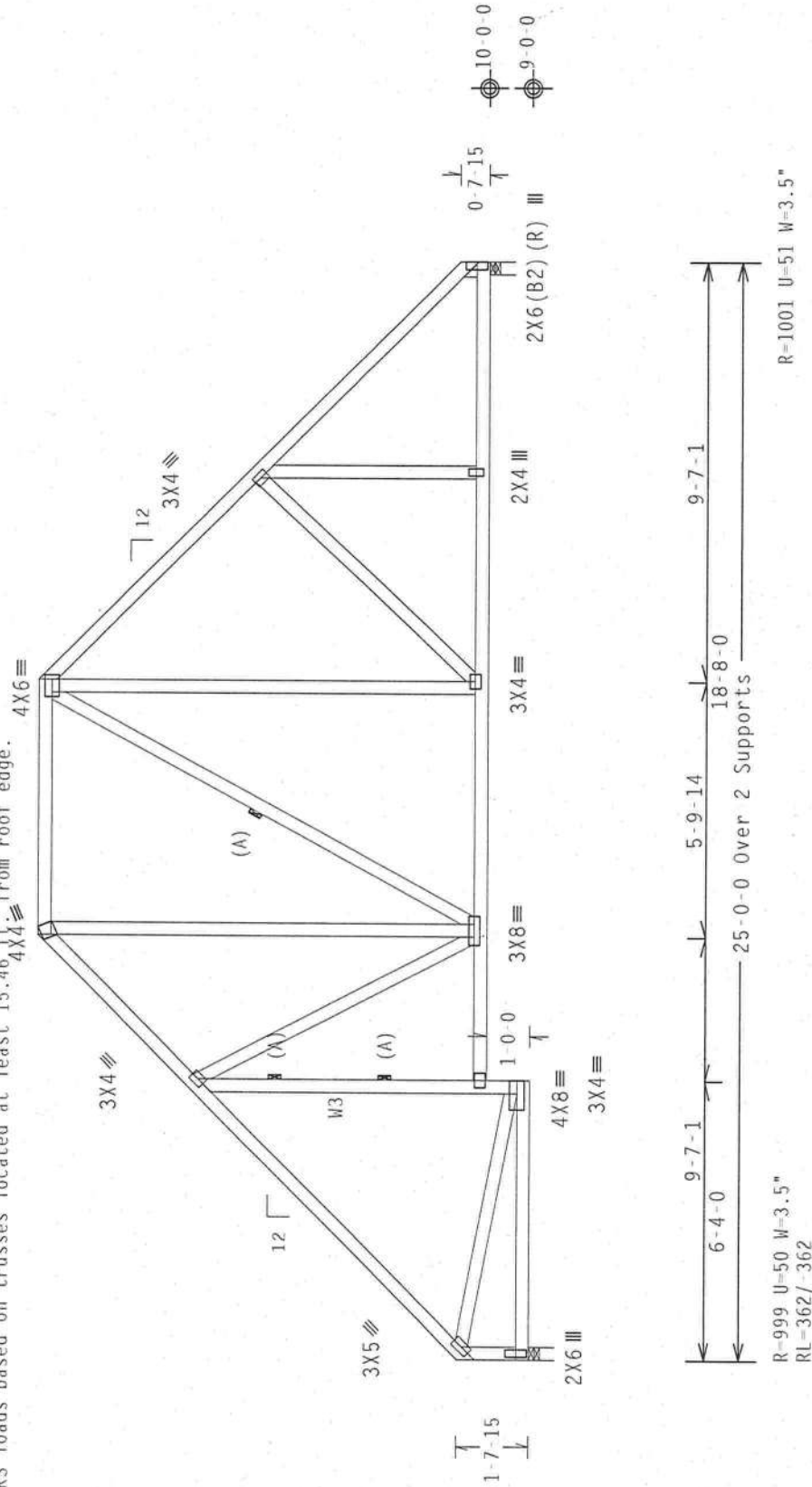
The overall height of this truss excluding overhang is 11-3-0.

Calculated horizontal deflection is 0.15" due to live load and 0.15" due to dead load.

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

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

MWFRS loads based on trusses located at least 15.46 ft. from roof edge.



R-999 U=50 W=3.5"  
RL=362/-362

R=1001 U=51 W=3.5"

Design Crit: FBC2007Res/TPI-2002(STD)

Scale = .25"/Ft.

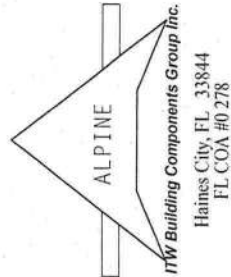
QTY:1 FL/-/5/-/-/R/-/

10.01.00.0502.03

FT/RT=20%(0%)/10(0)

PLT TYP: Wave

OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING

[illegible]

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R215-- 73511      |
| TC DL    | 10.0 PSF | DATE   | 10/04/10          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215 10277018 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK *          |
| TOT.LD.  | 40.0 PSF | SEQN-  | 277970            |
| DUR.FAC. | 1.25     | FROM   | CDM               |
| SPACING  | 24.0"    | JREF-  | 1U5R215_Z01       |

|           |     |    |      |
|-----------|-----|----|------|
| Top chord | 2x4 | SP | #2 N |
| Bot chord | 2x4 | SP | #2 N |
| Web       | 2x4 | SP | #2 N |

110 mph wind, 15.46 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw 1.00 GCpi (+/-)=0.18

These hangers and support conditions used at bearings indicated  
(H1) = 1TW (KC) HDTP26 w/ (2)2x6 SP SS supporting member.  
Supported Member Face: (6) 0.131"x1.5" nails  
Supporting Member Face: (14) 0.128"x3" nails

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

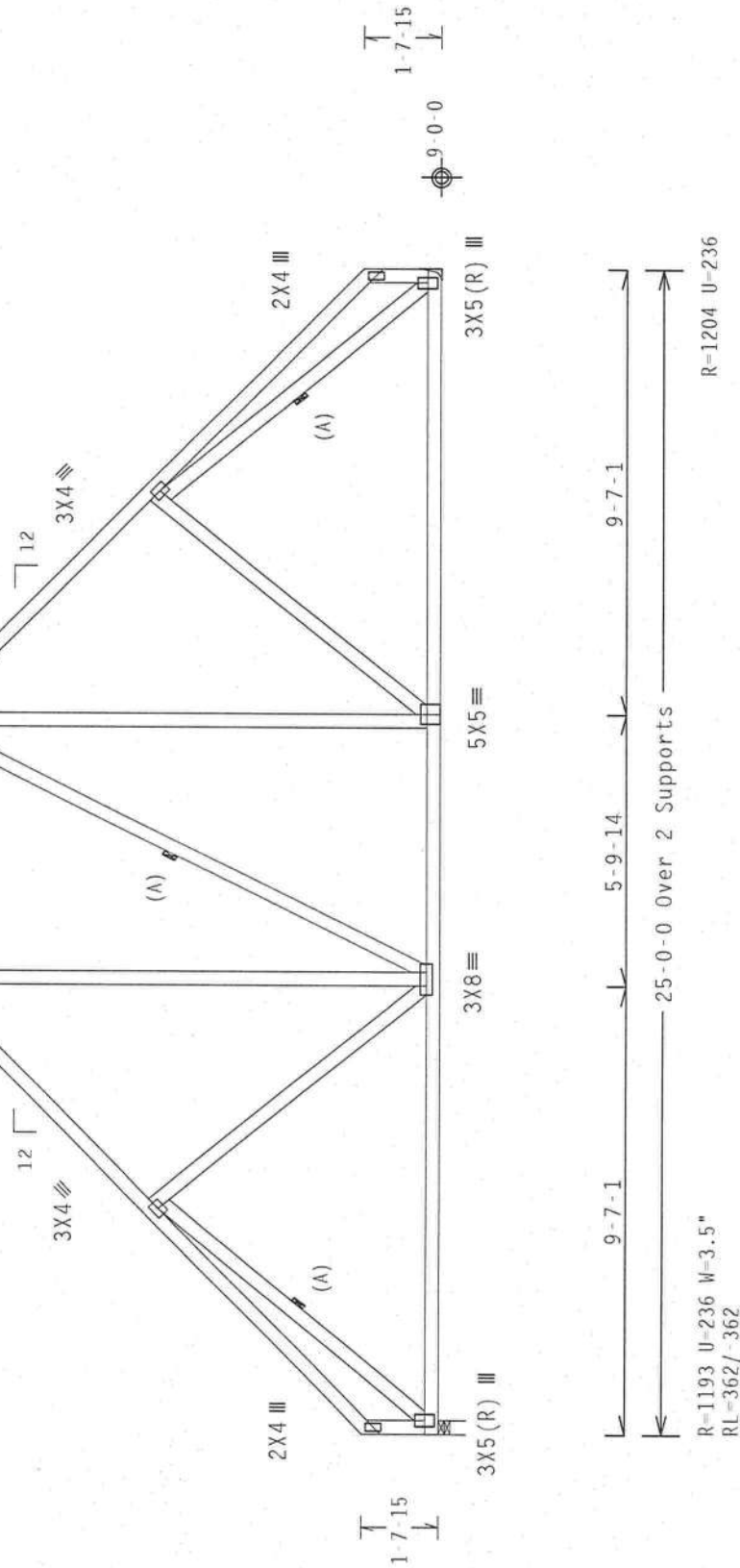
Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24"-wide clearance.

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

MWFRS loads based on trusses located at least 7.73 ft. from roof edge.

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

The overall height of this truss excluding overhang is 11-3-0.



Design Crit: FBC2007Res/TPI - 2002 (STD)  
FT/RT=20%(0%) /10(0)

PLT TYP. Wave

OTY:2

Scale = .25"/Ft.

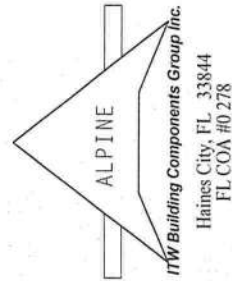
[illegible]

**\*\*IMPORTANT\*\***TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITR BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH IPTC OR FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CORRUPTION PLATES ARE MADE TO PROTECT PROJECTIONS OF RODS (NATIONAL DESIGN SPEC. BY AIRPA) AND IPTC. ITR BCG HAS CONDUCTED INSPECTIONS OF TRUSSES AND UNLESS OTHERWISE SPECIFIED ON THIS DESIGN POSITION PER REQUIREMENTS APPLIED TO EACH FACE OF TRUSS AND CORRUPTION PLATE (SEE ITR-285) GALVALUT APPLY TO ALL CORRUPTION PLATES. IF THERE IS AN ISSUE WITH THE CORRUPTION PLATE, CONTACT ITR BCG IMMEDIATELY.

IF ANY INSPECTION OF PLATES FOLLOWED BY (1). SHALL BE PER ABX# 63 OF IPTC 2009 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN.

THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNED PER ABX/IPTC 1 SEC. 2.



|          |       |     |        |             |          |
|----------|-------|-----|--------|-------------|----------|
| TC LL    | 20.0  | PSF | REF    | R215 -      | 73512    |
| TC DL    | 10.0  | PSF | DATE   | 10/04/10    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR215    | 10277023 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/WHK      |          |
| TOT.LD.  | 40.0  | PSF | SEIN-  | 277968      |          |
| DUR.FAC. | 1.25  |     | FROM   | CDM         |          |
| SPACING  | 24.0" |     | JREF-  | 1U5R215_Z01 |          |

| Top | chord | 2x4 | SP | #2 | N |
|-----|-------|-----|----|----|---|
| Bot | chord | 2x4 | SP | #2 | N |
|     | Webs  | 2x4 | SP | #2 | N |

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

Roof overhang supports 2.00 psf soffit load.

These hangers and support conditions used at bearings indicated (H1) = ITW (KC) HDTP26 w/ (2)2x6 SP SS supporting member.

Supported Member Face: (6) 0.131"x1.5" nails  
Supporting Member Face: (14) 0.128"x3" nails

Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24" wide clearance.

The overall height of this truss excluding overhang is 11.30.

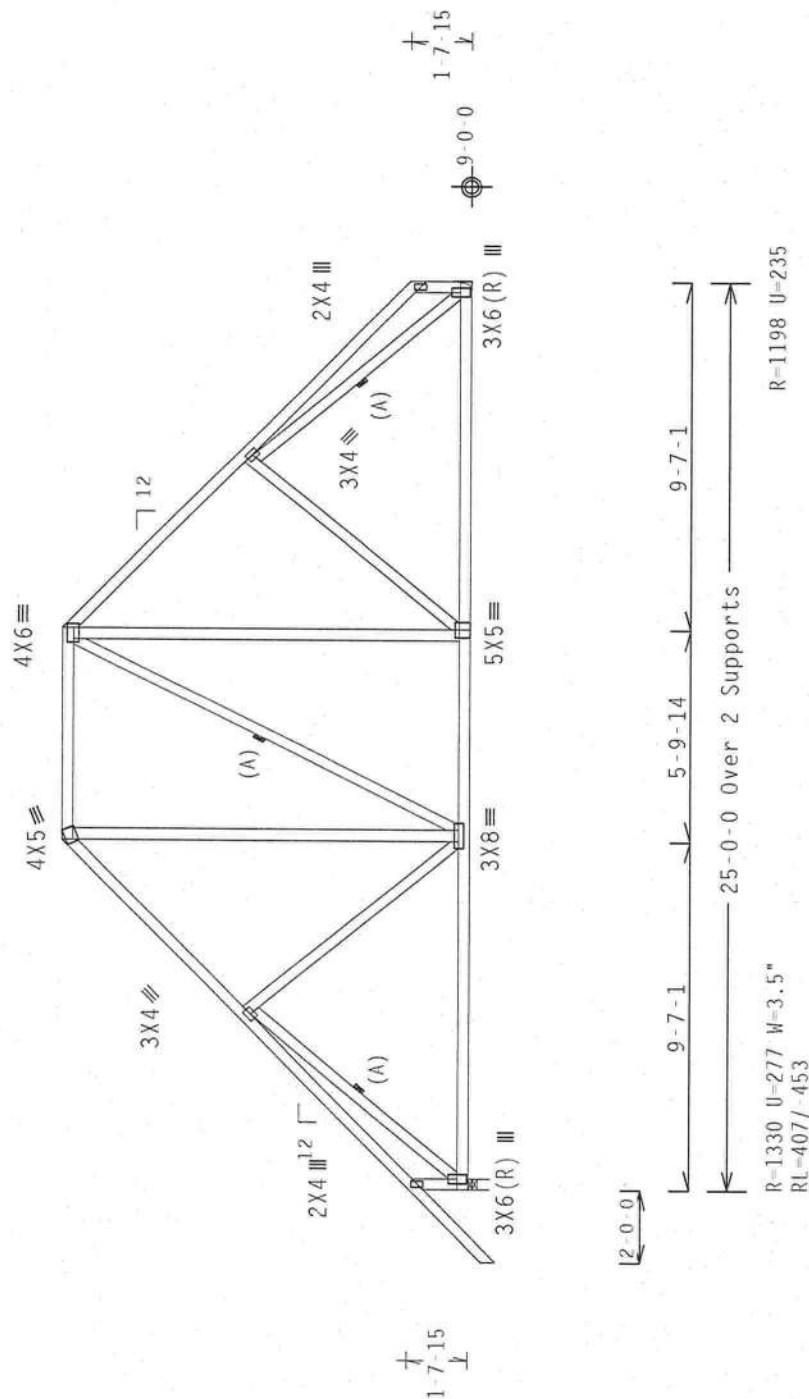
Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

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

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

Design Crit:  $\text{FBC2007Res}/\text{TPI-2002(STD)}$   
 $\text{FT}/\text{RT}=20\%(0\%)/10(0)$ 

PLT TYP. Wave

10.01.00.

FL1-151-1-1R1-

Scale = 1875"/Ft.

|        |          |          |       |
|--------|----------|----------|-------|
| REF    | R215     | --       | 73513 |
| DATE   | 10/04/10 |          |       |
| DRW    | HCUSR215 | 10277024 |       |
| HC-ENG | JB/WHK   |          |       |
| SEQN-  | 277966   |          |       |
| FROM   | CDM      |          |       |
| JREF-  | 1U5R215  | Z01      |       |

**\*WARNING\***—THUSSES PROVIDE EXTERIOR GABLE END FABRICATION, MAJOR LIFT, SHUDDING, DETAIL TIE AND BRACING, REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE MANUFACTURER FOR ADDITIONAL DETAIL, #18 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA GROUP TRUSS COMPANY FOR ADDITIONAL TRUSS CONNECTIONS. INTERMEDIATE LANE, MODISC 511, 531919, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CUTTING.

[illegible]

Oct 05 '10

|     |       |     |    |    |   |
|-----|-------|-----|----|----|---|
| Top | chord | 2x4 | SP | #2 | N |
| Bot | chord | 2x4 | SP | #2 | N |
|     | Webs  | 2x4 | SP | #2 | N |

110 mph wind, 15.25 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 GCpi(+/-)=0.18

Truss spaced at 24" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

Wind reactions based on MWFRS pressures.

See DWGS A11030050109 & GBLLETIN0109 for more requirements.

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

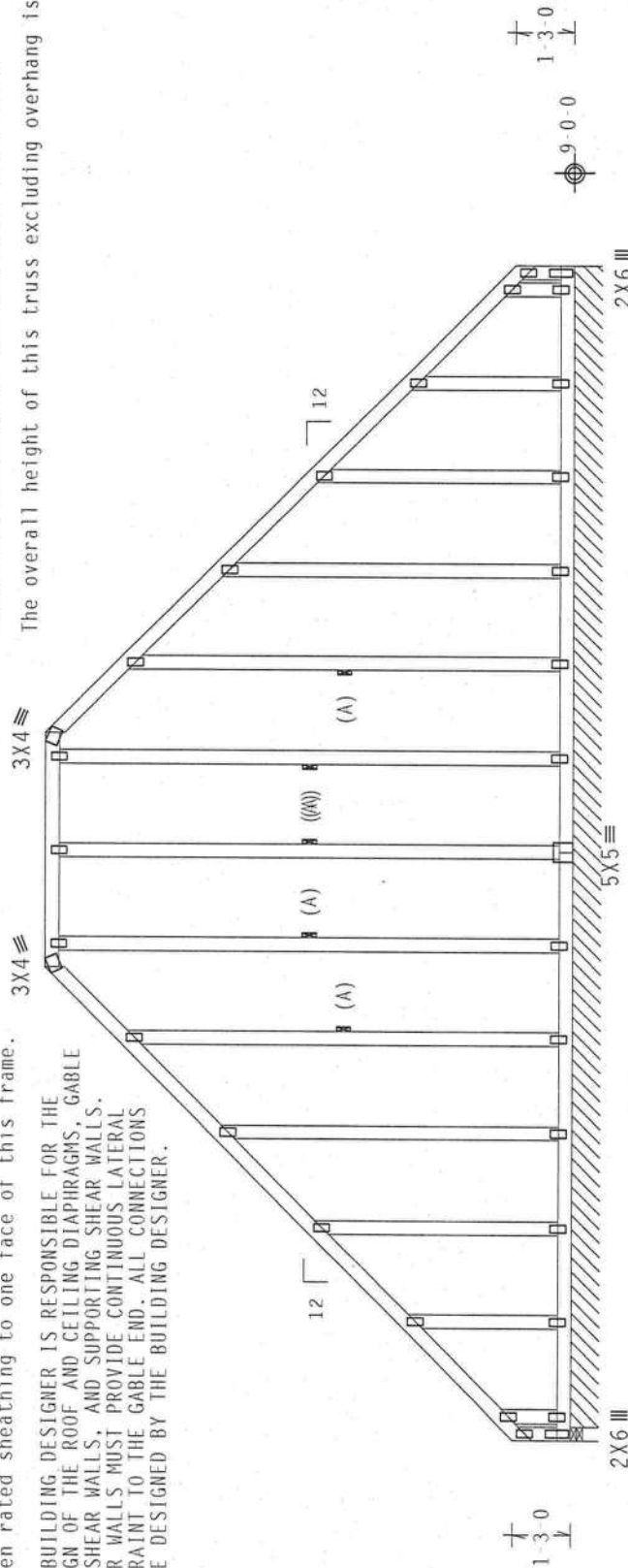
(A) Continuous lateral bracing equally spaced on member.

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

Fasten rated sheathing to one face of this frame.

The overall height of this truss excluding overhang is 11.3-0.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE 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.



R=60 RW=1119 U 1006 W=3.5"  
RL=755/-755

R=129 PLF U=59 PLF W=24-8-8

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

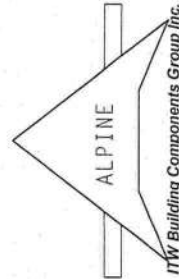
10.01.00

QTY:1

FL / - / 5 / - / - / R / - /

Scale = 25"/Ft.

**\*\*WARNING\*\*** THOSE'S RIGIDITY EITHER COME IN ADDITION, AND THE SHIPPING, DETAILING AND READING, REFER TO BEST BUILDING COMPONENT SAFETY, INCLUDING THE THERMS PAST TESTSHEET, #10 NORTH LEE STREET, SUITE 312, ALVAHAMA, VA, 22213) AND CONTACT WITH TRUST COMPANY ENTERPRISE LLC, 6001 SUNNYVALE BLVD., SUITE 537, FORT WORTH, TEXAS 76103-9800. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED BY CORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTLE CORD SHALL HAVE PROPERLY ATTACHED RIGID CORD.

[illegible]

Haines City, FL 33844  
FL COA #0 278



Oct 05 10

|          |       |     |                      |
|----------|-------|-----|----------------------|
| TC LL    | 20.0  | PSF | REF R215 - 73514     |
| TC DL    | 10.0  | PSF | DATE 10/04/10        |
| BC DL    | 10.0  | PSF | DRW HCUR215 10277025 |
| BC LL    | 0.0   | PSF | HC-ENG JB/WHK        |
| TOT.LD.  | 40.0  | PSF | SEON - 278110        |
| DUR.FAC. | 1.25  |     | FROM CDM             |
| SPACING  | 24.0" |     | JREF - 1U5R215_Z01   |

|           |     |    |      |
|-----------|-----|----|------|
| Top chord | 2x4 | SP | #2 N |
| Bot chord | 2x4 | SP | #2 N |
| Web       | 2x4 | SP | #2 N |

110 mph wind, 21.51 ft mean hgt. ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf.  $I_w=1.00$  GCpi (+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWGS A11030050109 & GBLLETIN0109 for more requirements.

The overall height of this truss excluding overhang is 2.60.

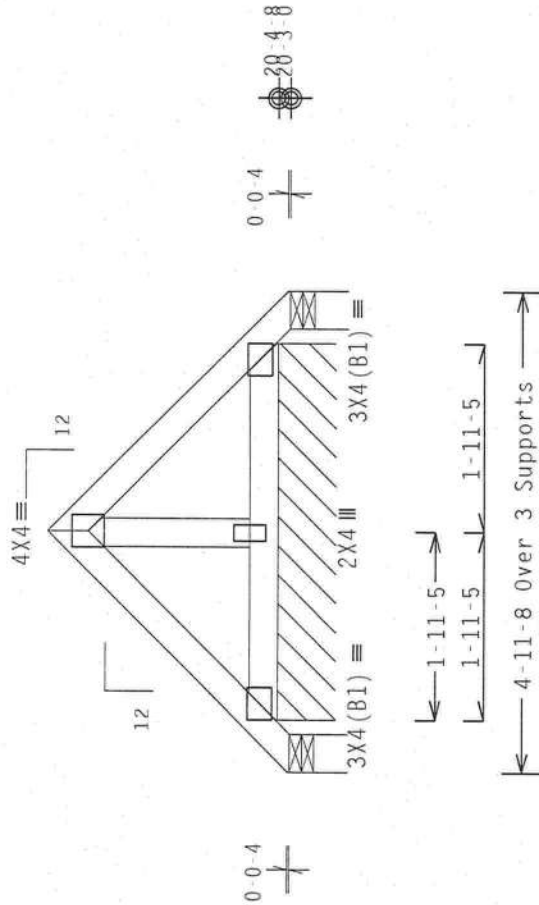
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

### Special loads

|    |      |                 |    |                |
|----|------|-----------------|----|----------------|
| TC | From | 60 plf at -0.54 | to | 60 plf at 1.94 |
| TC | From | 60 plf at 1.94  | to | 60 plf at 4.42 |
| BC | From | 4 plf at -0.54  | to | 4 plf at 4.42  |

Truss spaced at 24.0" OC designed to support 2.0-0 top chord out lookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

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


$$R = 1 \quad R_w = 171 \quad U = 165 \quad W = 4.7''$$

$$RL = 180 / 180$$

R=1 RW=34 U=28 W=4.7"

R-76 PLF U=261 PLF W=3·10<sup>-9</sup>Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

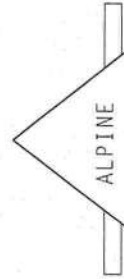
10 01 00

QTY.1

El 1-15/-/-18/-

Scale = 5"/ft

**\*\*\*WARNING\*\*\*** THROWS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. MUST BE SECURED TO A SOLID SURFACE. FOR INFORMATION, PUBLISHED BY THE CHASSIS PLATE INSTITUTE, 2300 NORTH 15 STREET, MILWAUKEE, WISCONSIN 53219. FOR SALES CONTACTS, PLEASE PHONE THESE INDICES: EMERGENCY, 800-555-5555; 53219; 1-800-555-5555. THESE INDICES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. THESE INDICES SHOULD HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CUTTING

[illegible]

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



Oct 05 '10

|          |       |     |        |             |          |
|----------|-------|-----|--------|-------------|----------|
| TC LL    | 20.0  | PSF | REF    | R215--      | 73515    |
| TC DL    | 10.0  | PSF | DATE   | 10/04/10    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR215    | 10277026 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/WHK      |          |
| TOT.LD.  | 40.0  | PSF | SEON-  | 278114      |          |
| DUR.FAC. | 1.25  |     | FROM   | CDM         |          |
| SPACING  | 24.0" |     | JREF-  | 1USR215_Z01 |          |

Top chord 2x4 SP #2 N  
Bot chord 2x8 SP #2 N  
Webs 2x4 SP #2 N :W8 2x6 SP #2 N:

Special loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC- From 60 plf at 0.00 to 60 plf at 9.09  
TC- From 60 plf at 9.09 to 60 plf at 13.91  
TC- From 60 plf at 13.91 to 60 plf at 23.00  
BC- From 20 plf at 0.00 to 20 plf at 2.06  
BC- From 20 plf at 2.06 to 20 plf at 12.06  
BC- From 20 plf at 12.06 to 20 plf at 23.00  
BC- From 20 plf at 23.00 to 20 plf at 23.00  
BC- From 20 plf at 23.00 to 20 plf at 23.00  
10.00, 12.00

Negative reaction(s) of -372# MAX. (See below) from a non-wind load case requires uplift connection.

Wind reactions based on MWFRS pressures.

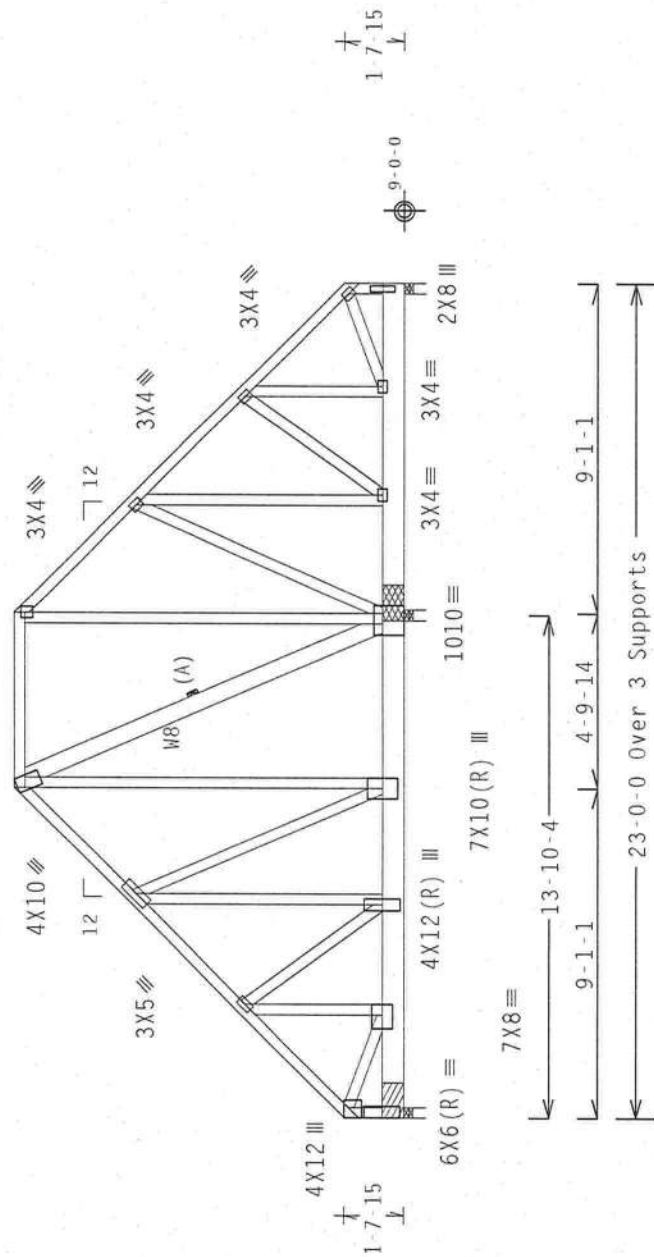
(A) Continuous lateral bracing equally spaced on member.

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

The overall height of this truss excluding overhang is 10'-5" (R) 4X4

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 2 Rows @ 5.00" o.c. (Each Row)  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.  
Brg blocks: 0.131"x3" nails  
brg x-loc. #blocks length/bk #nails/bk wall plate  
1 0.000 1 12" 15 Rigid Surface  
2 13.708 2 12" 17 Rigid Surface  
Brg block to be same size and species as bottom chord.  
Refer to drawing CNA11SP0109 for more information.  
110 mph wind, 15.21 ft mean ht, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCpi(+/-)=0.18  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Deflection meets L/240 live and L/180 total load.



R=215/-372 U-3 W-3.5"

R=9168 U-2587 W-3.5"

R=6828 U-1927 W-3.5"

RL=342/-342

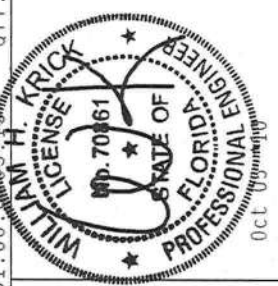
Design Crit: FBC2007Res/TPI-2002(STD)

FT/RT=20%(0%)/10(0)

PLT TYP. Wave

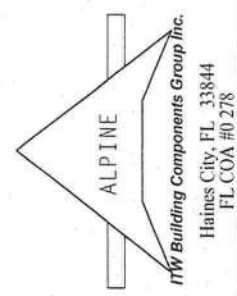
Scale = .1875"/Ft.

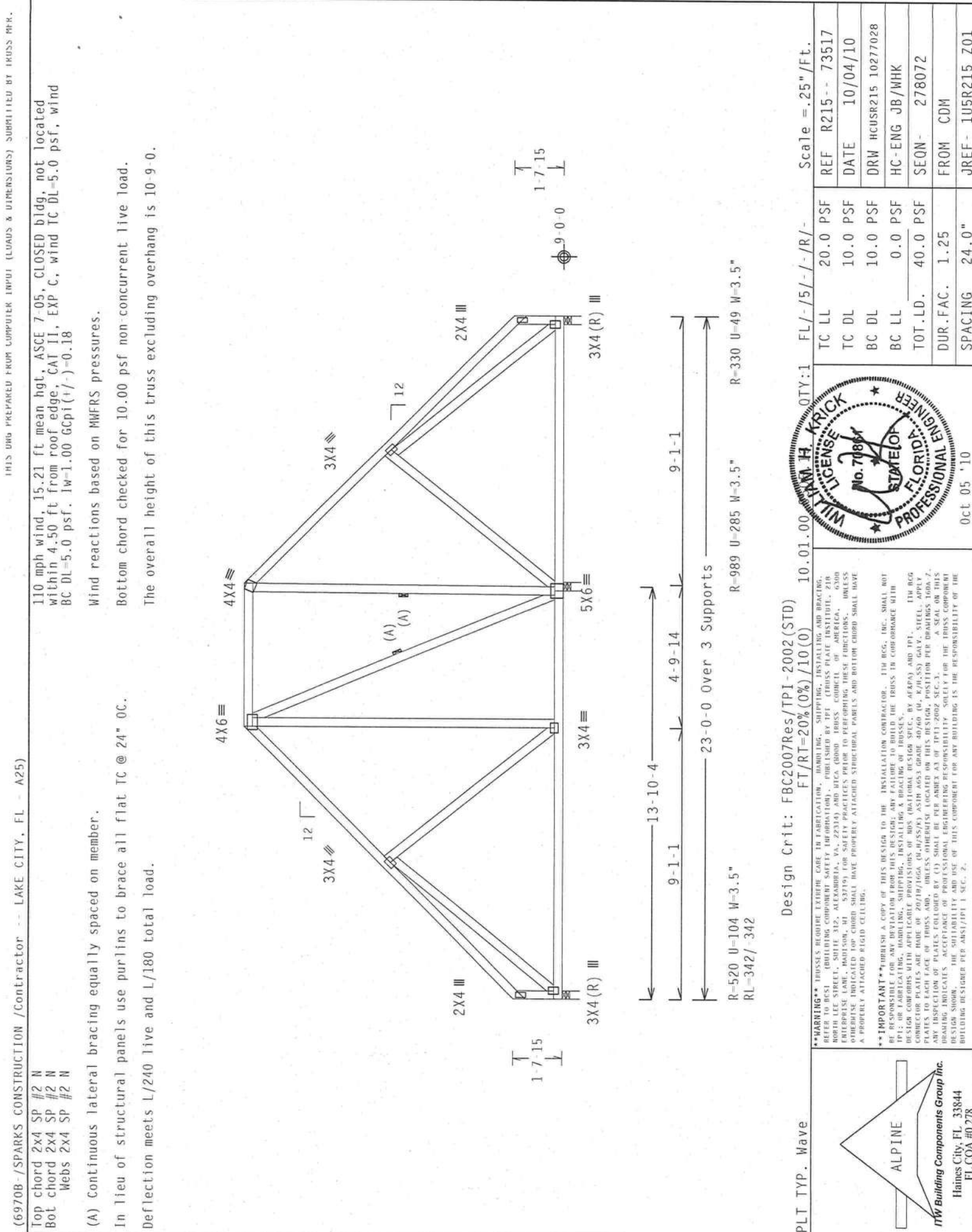
|          |          |        |             |          |
|----------|----------|--------|-------------|----------|
| TC LL    | 20.0 PSF | REF    | R215--      | 73516    |
| TC DL    | 10.0 PSF | DATE   | 10/04/10    |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215    | 10277027 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK      |          |
| TOT.LD.  | 40.0 PSF | SEQN   | 278070      |          |
| DUR.FAC. | 1.25     | FROM   | CDM         |          |
| SPACING  | 24.0"    | JREF   | 1U5R215_Z01 |          |



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WCA (WOOD CONNECTIONS) - PUBLISHED BY WCA, 6500 WILSON AVENUE, SUITE 100, WILSON, NC 27157 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHOULD 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 BGC, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. THE BGC DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AIA (NATIONAL DESIGN SPEC. BY AIA/FA) AND TPI. THE BGC CORRELATION PLATES ARE MADE OF 20/18/16GA (0.01875/0.015625) ASH 6053 GRADE 40/60 (0.01875/0.015625) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 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 SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.





THIS DRAW PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY HUSS MFR.

(69708-SPARKS CONSTRUCTION /Contractor -- LAKE CITY, FL - A25)

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

110 mph wind, 15.21 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL-5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)-0.18

(A) Continuous lateral bracing equally spaced on member.

Wind reactions based on MWFRS pressures.

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

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

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

The overall height of this truss excluding overhang is 10-9-0.

R-520 U=104 W=3.5"  
RL-342/ 342

R-989 U=285 W=3.5"

R-330 U=49 W=3.5"

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

10.01.00

QTY:1 FL/-/5/-/-/R/-

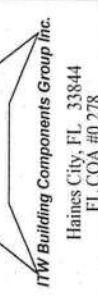
Scale = .25" /Ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 WEST 31ST, ALEXANDRIA, VA, 22304) AND BICA (BROAD TRUSS COMPANY, 10000 W. 10TH, SUITE 100, OVERLAND PARK, KS 66211). OTHERWISE LABEL AND MARK ALL TRUSS COMPONENTS WITH THE TPI OR BICA LOGO. 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 TPI OR BICA DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (HORIZONTAL DESIGN SPEC., BY AISC) AND TPI. THE BCG CONNECTOR PLATES ARE MADE OF 2010/1666 (H/J/SS/PS) ASTM A653 GRADE 40/60 (H, K/J/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING T00A-7. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANDER 43 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BUILDING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ALPINE



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



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R215 - - 73517    |
| TC DL    | 10.0 PSF | DATE   | 10/04/10          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215 10277028 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT.LD.  | 40.0 PSF | SEQN-  | 278072            |
| DUR.FAC. | 1.25     | FROM   | CDM               |
| SPACING  | 24.0"    | JREF-  | 1U5R215_Z01       |

|     | Top   | chord | 2x4 | SP | #2 | N | :T2 | 2x6 | SP | #2 | N: |
|-----|-------|-------|-----|----|----|---|-----|-----|----|----|----|
| Bot | chord | 2x4   | SP  | #2 | N  |   |     |     |    |    |    |
|     | webs  | 2x4   | SP  | #2 | N  |   |     |     |    |    |    |

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

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

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

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

See DWGS A11015050109 & GBLLETIN0109 for more requirements.

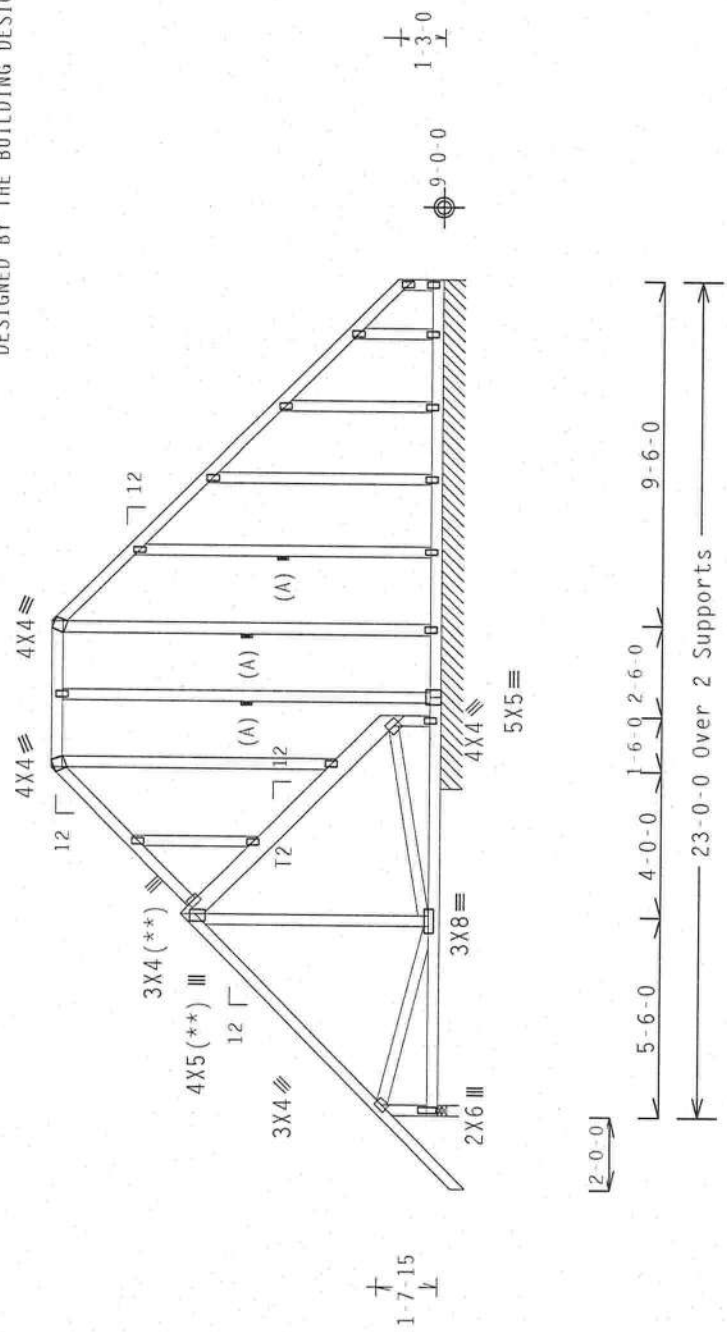
110 mph wind, 15.00 ft mean hgt., ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non concurrent live load.

The overall height of this truss excluding overhang is 10-9-0.

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.



R=574 U=235 W=3.5"  
RI=394/-447

R=100 PLF U=16 PLF W=14-0-0

Note: All Plates Are 2X4 Except As Shown.

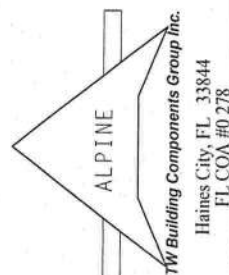
Design Crit: FBC2007Res/TPI-2002(STD)

10.01.00.05  QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

|                                                                                     |          |      |       |        |             |          |
|-------------------------------------------------------------------------------------|----------|------|-------|--------|-------------|----------|
|  | TC LL    | 20.0 | PSF   | REF    | R215--      | 73518    |
|                                                                                     | TC DL    | 10.0 | PSF   | DATE   | 10/04/10    |          |
|                                                                                     | BC DL    | 10.0 | PSF   | DRW    | HCUSR215    | 10277029 |
|                                                                                     | BC LL    | 0.0  | PSF   | HC-ENG | JB/WHK      |          |
|                                                                                     | TOT.LD.  | 40.0 | PSF   | SEQN-  | 278187      |          |
|                                                                                     | DUR.FAC. | 1.25 |       | FROM   | CDM         |          |
| SPACING                                                                             |          |      | 24.0" | JREF-  | 1U5R215_Z01 |          |



\*HARRING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, AND BRACING. REFER TO BCSS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (NORTH TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MONTICELLO, VA, 53219) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLS.

[illegible]

|           | Top chord | 2x4 | SP | #2 | N | :T2 | 2x6 | SP | #2 | N: |
|-----------|-----------|-----|----|----|---|-----|-----|----|----|----|
| Bot chord | 2x6       | SP  | #2 | N  |   |     |     |    |    |    |
| Webbs     | 2x4       | SP  | #2 | N  |   |     |     |    |    |    |

11110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)=0.18

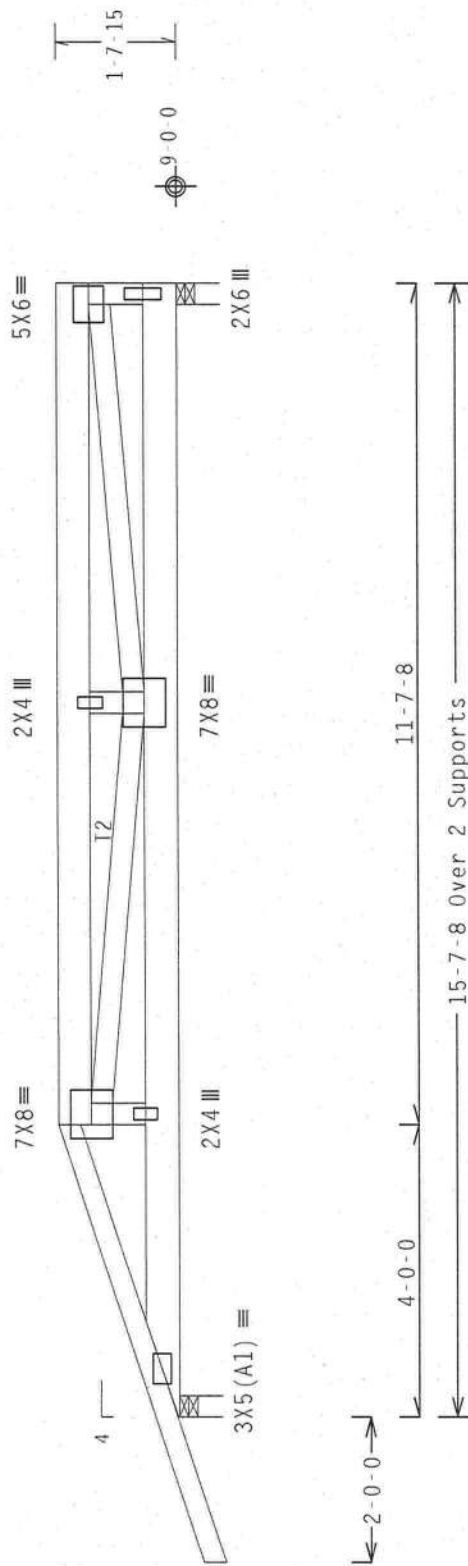
Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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

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

The overall height of this truss excluding overhang is 17-15.



R=1054 II=368 W=3.5"

R=858 H=254 W=3.5"

Design Crit: FBC2007Res/TPI-2002(STD)

Scale = .375" / Ft.

PLT TYP. Wave

**\*\*\*WARNING\*\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE FABRICATOR'S INSTRUCTIONS. PUBLISHED BY THE CROSS PLATE INSTITUTE, 210 NORTH LIFE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AIA (AMERICAN INSTITUTE OF ARCHITECTS), 1735 N. MICHIGAN AVE., CHICAGO, IL 60610. FOR MORE INFORMATION, CONTACT THE CROSS PLATE INSTITUTE OR AIA. THESE TRUSSES ARE DESIGNED TO BE USED IN CONJUNCTION WITH THE CROSS PLATE INSTITUTE'S TRUSSING SYSTEM. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED BRIDG. CORDS.

[illegible]

Haines City, FL 33844  
FL COA #0 278

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N  
:RT Bearing Leg 2x4 SP #2 N:

Roof overhang supports 2.00 psf soffit load.

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

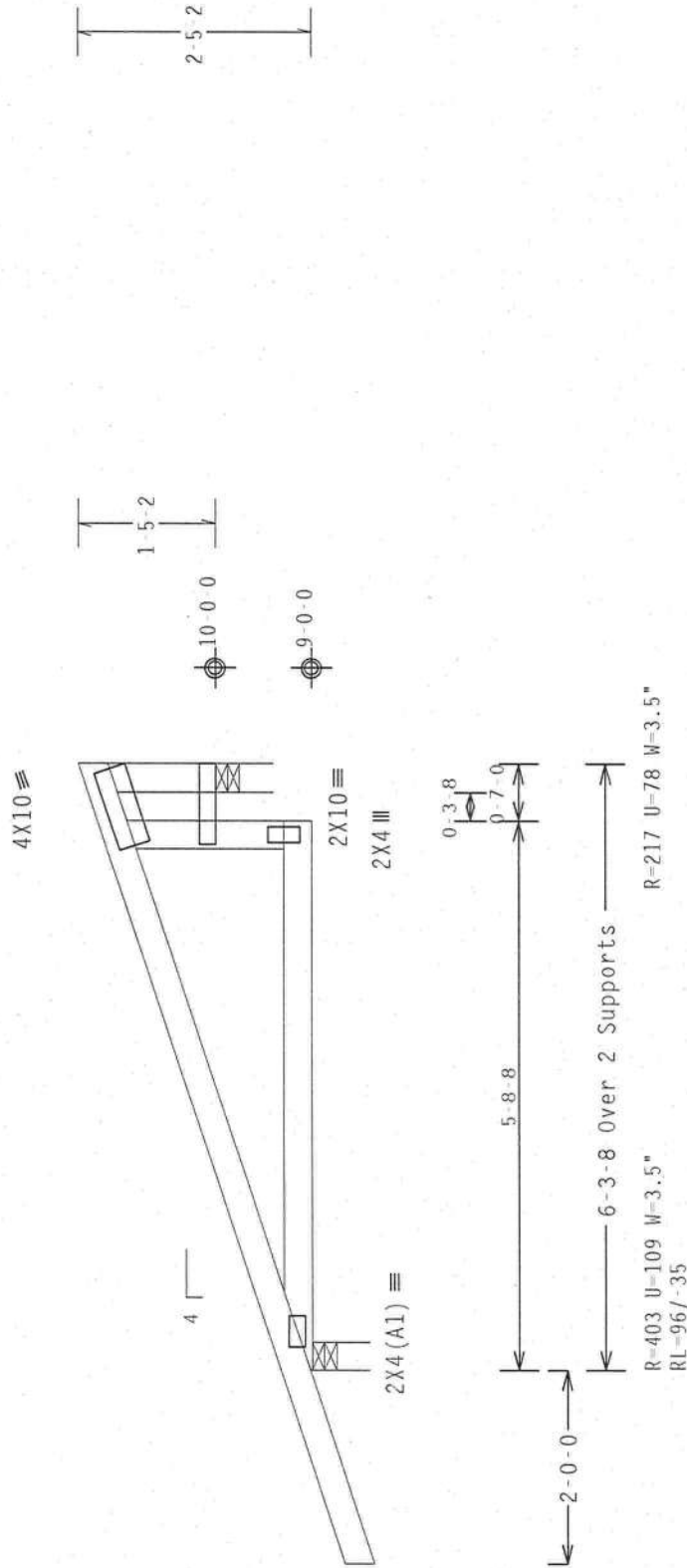
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

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

Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 2-5-2.

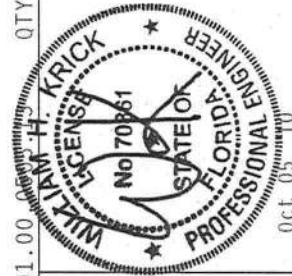
Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .5"/Ft.

**\*WARNING:** THOMSON RIGIDITY EXTREME CORE IN FABRICATION, HARDENING, SHOOTING, INSTALLING AND BRACING. THESE STEPS MUST BE COMPLETED BEFORE ANY OTHER WORK IS DONE ON THE CHORD. IF THE CHORD IS NOT PROPERLY ATTACHED TO THE STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE OTHER USE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHORD.

**\*\* IMPORTANT \*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR-ITR BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE THINGS IN COMPLIANCE WITH TPI-1 OR FABRICATING, WELDING, SHIPPING, INSTALLING & BRACING OF THESE THINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PLATES ARE MADE OF 209/19/1666A / 60/US/SAF ANTH 80X3 GRADE 307/60 (V. X/MS) GALV. STEEL. ALL PLATES TO EACH FACE OF THINGS AND UNLESS OTHERWISE LOCATED ON THIS POSITION PER DRAWINGS 1606A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1.) SHALL BE PER AMEX AT 0111-2009 SEC.2. SO LONG AS THERE IS A SEAL ON THIS DESIGN, IT INDICATES ACCURACY OF PHOTOGRAPHIC EVIDENCE. THEREFORE, RESPONSIBILITY FOR THE SEALING OF THE THINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FOR ANY HOLDING OF THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



Haines City, FL 33844  
FL COA #0278

| Top | chord | 2x4 | SP | #2 | N |
|-----|-------|-----|----|----|---|
| Bot | chord | 2x4 | SP | #2 | N |
|     | Webs  | 2x4 | SP | #2 | N |

:Rt Bearing Leg 2x4 SP #2 N:

Bottom chord checked for 10.00 psf non concurrent live load.

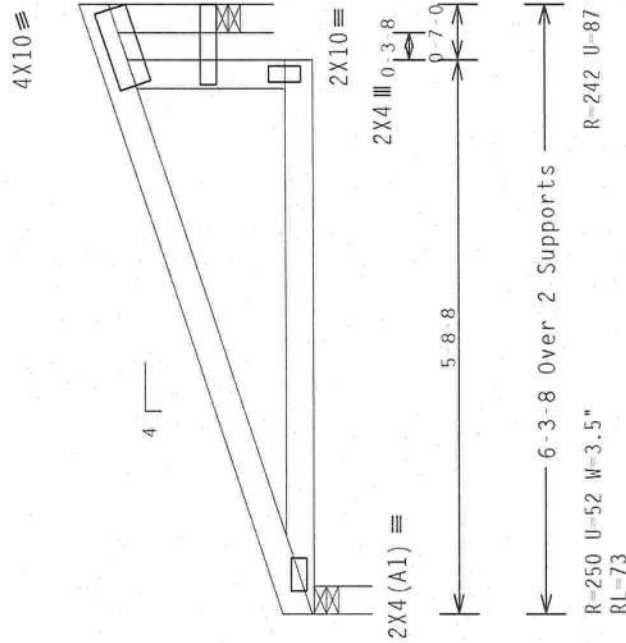
The overall height of this truss excluding overhang is 2.5.2.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (1/-)=0.18

Wind reactions based on MWFRS pressures.

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

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

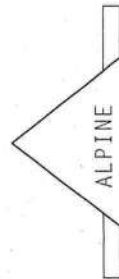


Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .5"/Ft.

|          |          |                      |
|----------|----------|----------------------|
| TC LL    | 20.0 PSF | REF R215-- 73521     |
| TC DL    | 10.0 PSF | DATE 10/04/10        |
| BC DL    | 10.0 PSF | DRW HCUR215 10277008 |
| BC LL    | 0.0 PSF  | HC-ENG SSB/WHK       |
| TOT.LD.  | 40.0 PSF | SEQN- 276203         |
| DUR.FAC. | 1.25     | FROM CDM             |
| SPACING  | 24.0"    | JREF- 1U5R215 Z01    |

[illegible][illegible]

ITW Building Components Group Inc.

Haines City, FL 33844

(6970B - /SPARKS CONSTRUCTION /Contractor -- LAKE CITY, FL - A32)

Top chord 2x4 SP #2 N : T3 2x6 SP #2 N:  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N  
: Lt Wedge 2x4 SP #2 N:

110 mph wind, 15.46 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL-5.0 psf, wind BC DL-5.0 psf. lw-1.00 GCpi (/) -0.18

(A) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Deflection meets L/240 live and L/180 total load.

MWFRS loads based on trusses located at least 15.46 ft. from roof edge.

See DWGS A11030050109 & GBLLETIN0109 for more requirements.

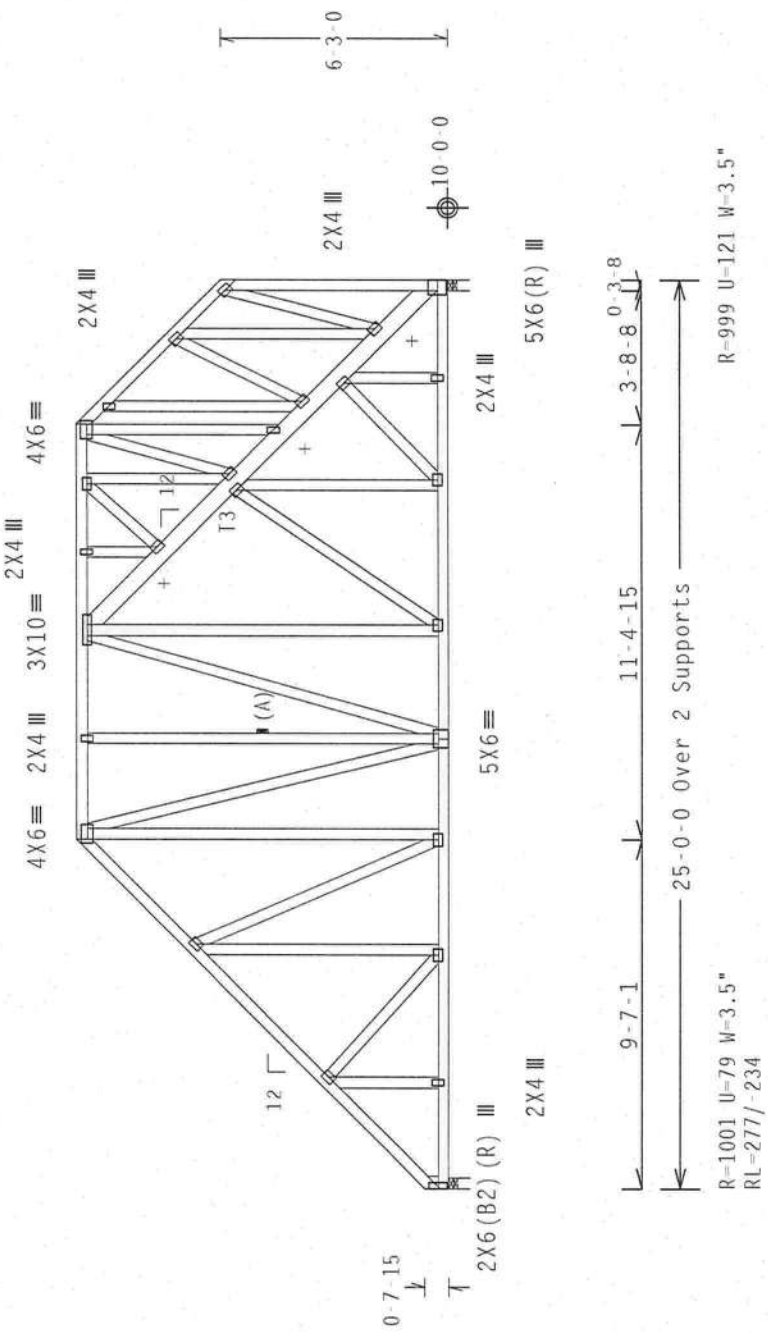
+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS.  
BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

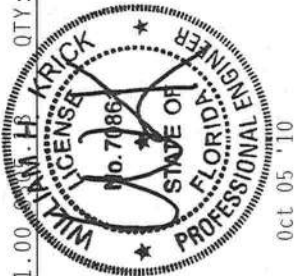
The overall height of this truss excluding overhang is 11-3-0.  
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

|               |          |       |                        |                      |
|---------------|----------|-------|------------------------|----------------------|
| PLT TYP. Wave | 10.01.00 | QTY:1 | FL / - / 5 / - / R / - | Scale = .1875" / Ft. |
| TC LL         | 20.0     | PSF   | REF                    | R215 - - 73522       |
| TC DL         | 10.0     | PSF   | DATE                   | 10/04/10             |
| BC DL         | 10.0     | PSF   | DRW                    | HCUSR215 10277030    |
| BC LL         | 0.0      | PSF   | HC-ENG                 | JB/WHK               |
| TOT.LD.       | 40.0     | PSF   | SEQN -                 | 277959               |
| DUR.FAC.      | 1.25     |       | FROM                   | CDM                  |
| SPACING       | 24.0"    |       | JREF -                 | 1U5R215_Z01          |



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY ALTERATION TO THE TRUSS IN CONFORMANCE WITH THE BCG DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE TRUSS SHALL BE DESIGNED TO CONFORM WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. THE BCG CORRELATOR PLATES ARE MADE OF 20/18/16GA (U/H/SS/PS) ASH 6053 GRADE 40/60 (U, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 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 SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



(6970B - SPARKS CONSTRUCTION /Contractor -- LAKE CITY, FL - A33)

Top chord 2x4 SP #2 H  
Bot chord 2x10 SP #2 H :B2 2x10 SP SS:  
Webs 2x4 SP #2 H

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

Roof overhang supports 2.00 psf soffit load.

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 8-9-12 to 22-2-4.

The overall height of this truss excluding overhang is 10-3-0.

Design Dead Loads based on material weight adjusted for slope: TC: 1.00 PSF

(I) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

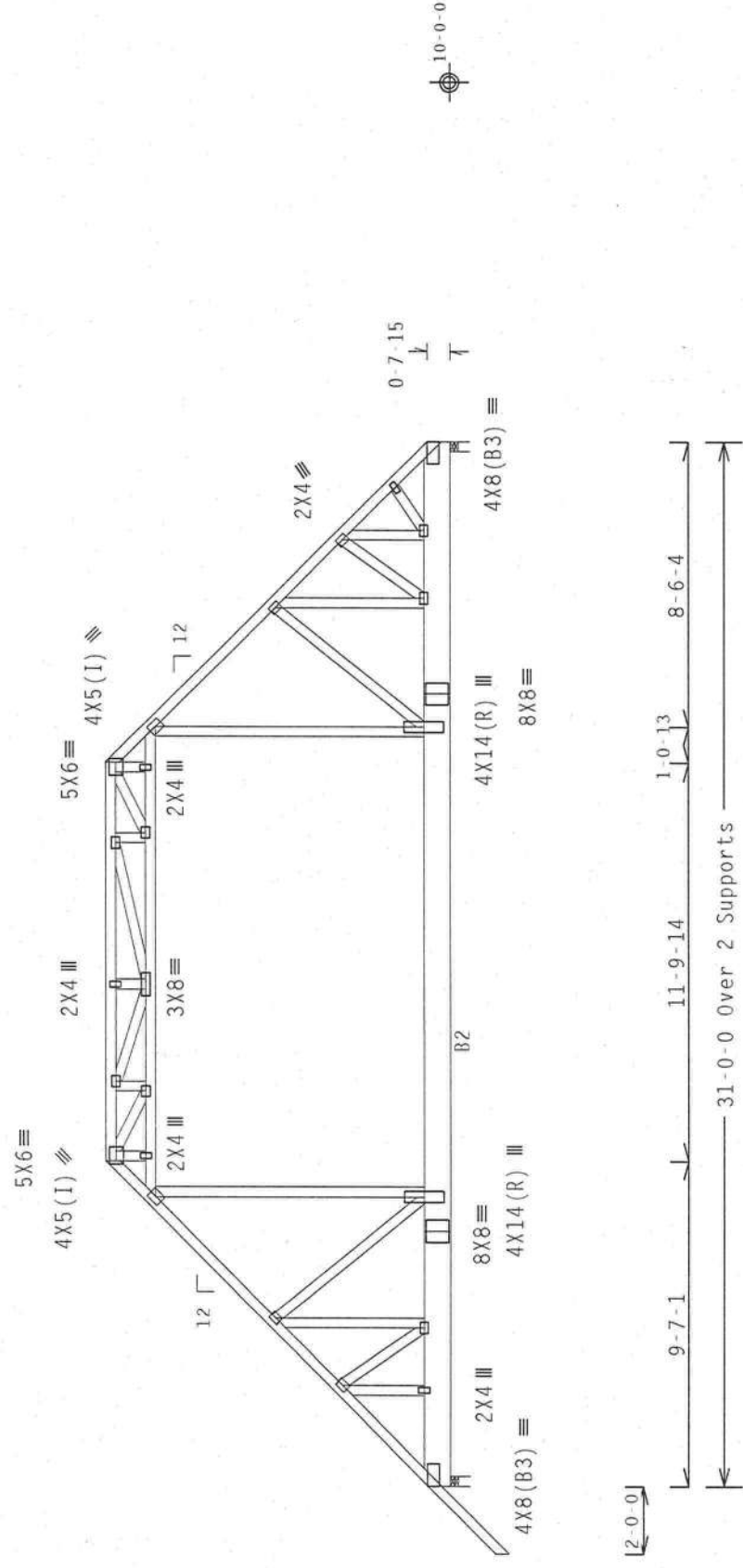
Wind reactions based on MWFRS pressures.

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

Collar-tie braced with continuous lateral bracing at 24" OC, or rigid ceiling.

Deflection meets L/360 live and L/240 total load.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



R-2394 U=78 W=3.5"  
RL=407/-453

Note: All Plates Are 3x4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

|               |              |          |              |                    |
|---------------|--------------|----------|--------------|--------------------|
| PLT TYP. Wave | 10.01.00.050 | QTY:1    | FL/-5/-/-R/- | Scale = .1875"/Ft. |
|               | TC LL        | 20.0 PSF | REF          | R215-- 73523       |
|               | TC DL        | 10.0 PSF | DATE         | 10/04/10           |
|               | BC DL        | 10.0 PSF | DRW          | HCUSR215 10277031  |
|               | BC LL        | 0.0 PSF  | HC-ENG       | JB/WHK             |
|               | TOT.LD.      | 40.0 PSF | SEQN-        | 277756             |
|               | DUR.FAC.     | 1.25     | FROM         | CDM                |
|               | SPACING      | 24.0"    | JREF-        | 1U5R215_Z01        |



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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR BCG REQUIREMENTS, HANDLING, SHIPPING, INSTALLING & BRACING, SHALL BE THE RESPONSIBILITY OF THE INSTALLER. CORRECTOR PLATES ARE MADE OF 2017/T406 (U-1/55/PA) ASTM A553 GRADE 40/60 (U-20/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 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 SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.





2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 10.25" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows  
in each row to avoid splitting

Brg blocks: 0.131"x3" nails  
Brg x-loc. #blocks length/blk #nails/blk wall plate  
2 30.708 1 12 4 Rigid Surface  
Brg block to be same size and species as bottom chord.  
Refer to drawing CUNALSP0109 for more information.

(1) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

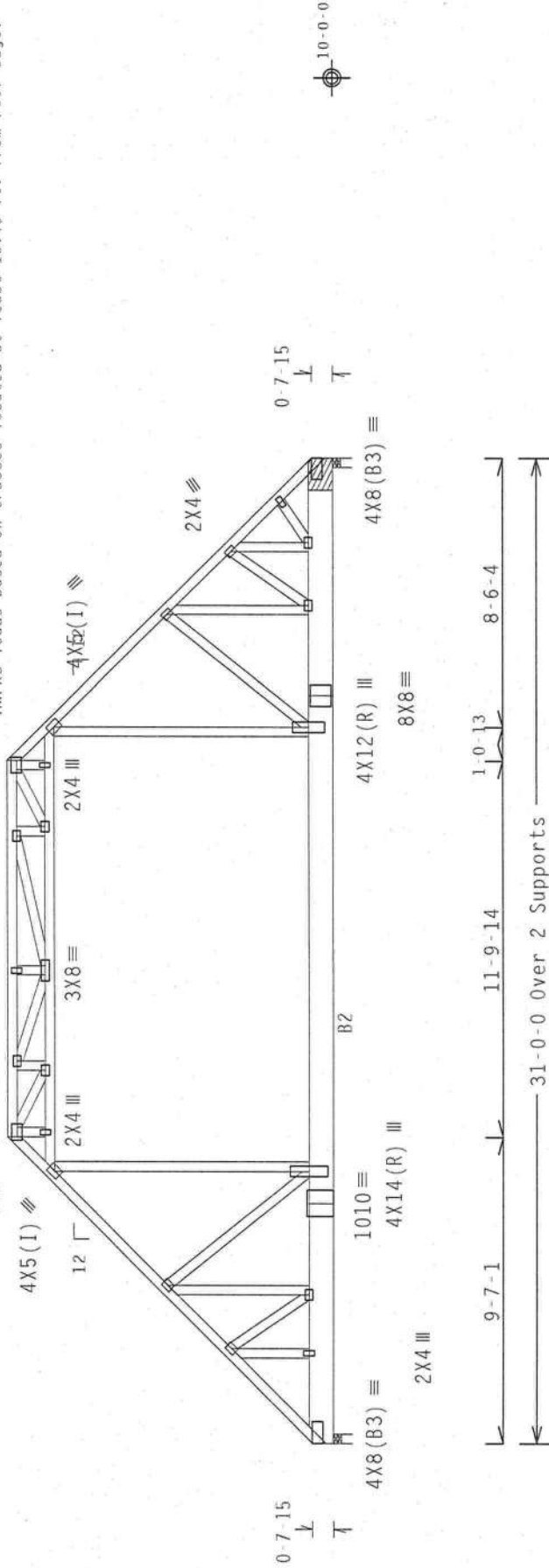
Wind reactions based on MWFRS pressures.

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

Trusses to be spaced at 42.0" OC maximum.

Deflection meets L/360 live and L/240 total load.

NWFRS loads based on trusses located at least 15.46 ft. from roof edge.



R=5387 H=551 W=3.5"

R=4204 U=551 W=3.5"  
RI=636/-636

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

00 856-113 QTY:1 FL/-/5/-/-/R/- Scale = .1875"/Ft.

PIT TYP. Wave

|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 20.0 PSF | REF R215 - 73525      |
| TC DL    | 10.0 PSF | DATE 10/04/10         |
| BC DL    | 10.0 PSF | DRW HCU8R215 10277033 |
| BC LL    | 0.0 PSF  | HC-ENG JB/WHK         |
| TOT.LD.  | 40.0 PSF | SEQN- 277763          |
| DUR.FAC. | 1.25     | FROM CDM              |
| SPACING  | 42.0"    | JREF- 1U5R215 Z01     |

**\*WARNING\*** ALWAYS REMOIVE EXTREME CARE IN UNRAVELING, HANDLING, SHIPPING, INSTALLING AND BRACING. DO NOT REUSE OR DRUM COMPRESSOR COMPRESSED AIR TO UNRAVEL THE CHORDS. THE WEIGHT OF THE CHORDS, 63000 LBS PER 1000' OF CHORD, MAY CAUSE PERSONAL INJURY OR DEATH. ALWAYS WEAR PROTECTIVE GEAR, EYE PROTECTION, EMPLOYER'S LABEL, 4041-50-10, 4041-50-11, 4041-50-12, 4041-50-13, 4041-50-14, 4041-50-15, 4041-50-16, 4041-50-17, 4041-50-18, 4041-50-19, 4041-50-20, 4041-50-21, 4041-50-22, 4041-50-23, 4041-50-24, 4041-50-25, 4041-50-26, 4041-50-27, 4041-50-28, 4041-50-29, 4041-50-30, 4041-50-31, 4041-50-32, 4041-50-33, 4041-50-34, 4041-50-35, 4041-50-36, 4041-50-37, 4041-50-38, 4041-50-39, 4041-50-40, 4041-50-41, 4041-50-42, 4041-50-43, 4041-50-44, 4041-50-45, 4041-50-46, 4041-50-47, 4041-50-48, 4041-50-49, 4041-50-50, 4041-50-51, 4041-50-52, 4041-50-53, 4041-50-54, 4041-50-55, 4041-50-56, 4041-50-57, 4041-50-58, 4041-50-59, 4041-50-60, 4041-50-61, 4041-50-62, 4041-50-63, 4041-50-64, 4041-50-65, 4041-50-66, 4041-50-67, 4041-50-68, 4041-50-69, 4041-50-70, 4041-50-71, 4041-50-72, 4041-50-73, 4041-50-74, 4041-50-75, 4041-50-76, 4041-50-77, 4041-50-78, 4041-50-79, 4041-50-80, 4041-50-81, 4041-50-82, 4041-50-83, 4041-50-84, 4041-50-85, 4041-50-86, 4041-50-87, 4041-50-88, 4041-50-89, 4041-50-90, 4041-50-91, 4041-50-92, 4041-50-93, 4041-50-94, 4041-50-95, 4041-50-96, 4041-50-97, 4041-50-98, 4041-50-99, 4041-50-100, 4041-50-101, 4041-50-102, 4041-50-103, 4041-50-104, 4041-50-105, 4041-50-106, 4041-50-107, 4041-50-108, 4041-50-109, 4041-50-110, 4041-50-111, 4041-50-112, 4041-50-113, 4041-50-114, 4041-50-115, 4041-50-116, 4041-50-117, 4041-50-118, 4041-50-119, 4041-50-120, 4041-50-121, 4041-50-122, 4041-50-123, 4041-50-124, 4041-50-125, 4041-50-126, 4041-50-127, 4041-50-128, 4041-50-129, 4041-50-130, 4041-50-131, 4041-50-132, 4041-50-133, 4041-50-134, 4041-50-135, 4041-50-136, 4041-50-137, 4041-50-138, 4041-50-139, 4041-50-140, 4041-50-141, 4041-50-142, 4041-50-143, 4041-50-144, 4041-50-145, 4041-50-146, 4041-50-147, 4041-50-148, 4041-50-149, 4041-50-150, 4041-50-151, 4041-50-152, 4041-50-153, 4041-50-154, 4041-50-155, 4041-50-156, 4041-50-157, 4041-50-158, 4041-50-159, 4041-50-160, 4041-50-161, 4041-50-162, 4041-50-163, 4041-50-164, 4041-50-165, 4041-50-166, 4041-50-167, 4041-50-168, 4041-50-169, 4041-50-170, 4041-50-171, 4041-50-172, 4041-50-173, 4041-50-174, 4041-50-175, 4041-50-176, 4041-50-177, 4041-50-178, 4041-50-179, 4041-50-180, 4041-50-181, 4041-50-182, 4041-50-183, 4041-50-184, 4041-50-185, 4041-50-186, 4041-50-187, 4041-50-188, 4041-50-189, 4041-50-190, 4041-50-191, 4041-50-192, 4041-50-193, 4041-50-194, 4041-50-195, 4041-50-196, 4041-50-197, 4041-50-198, 4041-50-199, 4041-50-200, 4041-50-201, 4041-50-202, 4041-50-203, 4041-50-204, 4041-50-205, 4041-50-206, 4041-50-207, 4041-50-208, 4041-50-209, 4041-50-210, 4041-50-211, 4041-50-212, 4041-50-213, 4041-50-214, 4041-50-215, 4041-50-216, 4041-50-217, 4041-50-218, 4041-50-219, 4041-50-220, 4041-50-221, 4041-50-222, 4041-50-223, 4041-50-224, 4041-50-225, 4041-50-226, 4041-50-227, 4041-50-228, 4041-50-229, 4041-50-230, 4041-50-231, 4041-50-232, 4041-50-233, 4041-50-234, 4041-50-235, 4041-50-236, 4041-50-237, 4041-50-238, 4041-50-239, 4041-50-240, 4041-50-241, 4041-50-242, 4041-50-243, 4041-50-244, 4041-50-245, 4041-50-246, 4041-50-247, 4041-50-248, 4041-50-249, 4041-50-250, 4041-50-251, 4041-50-252, 4041-50-253, 4041-50-254, 4041-50-255, 4041-50-256, 4041-50-257, 4041-50-258, 4041-50-259, 4041-50-260, 4041-50-261, 4041-50-262, 4041-50-263, 4041-50-264, 4041-50-265, 4041-50-266, 4041-50-267, 4041-50-268, 4041-50-269, 4041-50-270, 4041-50-271, 4041-50-272, 4041-50-273, 4041-50-274, 4041-50-275, 4041-50-276, 4041-50-277, 4041-50-278, 4041-50-279, 4041-50-280, 4041-50-281, 4041-50-282, 4041-50-283, 4041-50-284, 4041-50-285, 4041-50-286, 4041-50-287, 4041-50-288, 4041-50-289, 4041-50-290, 4041-50-291, 4041-50-292, 4041-50-293, 4041-50-294, 4041-50-295, 4041-50-296, 4041-50-297, 4041-50-298, 4041-50-299, 4041-50-300, 4041-50-301, 4041-50-302, 4041-50-303, 4041-50-304, 4041-50-305, 4041-50-306, 4041-50-307, 4041-50-308, 4041-50-309, 4041-50-310, 4041-50-311, 4041-50-312, 4041-50-313, 4041-50-314, 4041-50-315, 4041-50-316, 4041-50-317, 4041-50-318, 4041-50-319, 4041-50-320, 4041-50-321, 4041-50-322, 40

**\*\* IMPORTANT \*\*** THROUGH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR WITH REG. INC. SHALL NOT BE CONSIDERED A GUARANTEE OF THE DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE THUS IN CONFORMANCE WITH THE FOLLOWING: FABRICATING, WELDING, SHIPMENT, INSTALLING, A BRACING OF TRUSSES, WITH THE DESIGN COMPATIBLE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PDA) AND TPI. CONNECTOR PLATES ARE MADE OF 7018/116GA (U/MS/SP/CS) ASH 60/50 GRADE 40/60 (U, K10-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. IN THE EVENT OF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 43 OF TPI-2002 SEC. 3.). A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX 43/TPI 1. SEC. 2.

WILLIAM H. KRICK  
LICENSE  
No. 7086  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
Oct 05 '10

Oct 05 '10

(69708 - SPARKS CONSTRUCTION /Contractor - LAKE CITY, FL - A36)

Top chord 2x4 SP #2 N  
Bot chord 2x10 SP #2 N :B2 2x10 SP SS:  
Webs 2x4 SP #2 N

Left cantilever is exposed to wind

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

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 8-9-12 to 22-2-4.

The overall height of this truss excluding overhang is 10-3-0.

Design Dead Loads based on material weight adjusted for slope: IC:  
1.00 PSF

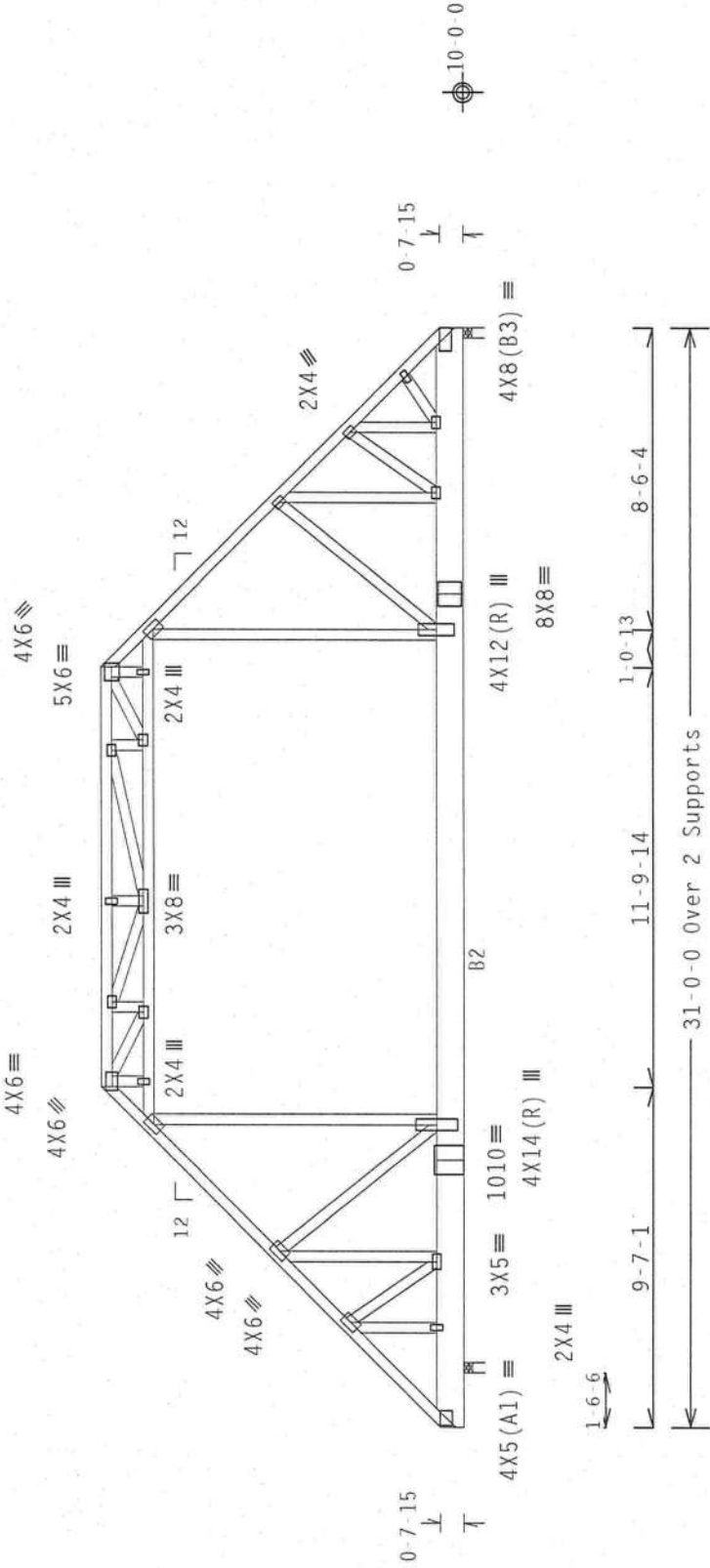
110 mph wind, 15.46 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(\pm)=0.18$

Wind reactions based on MWFRS pressures.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 total load.

MWFRS loads based on trusses located at least 15.46 ft. from roof edge.



R-2376 U-61 W-3.5"  
RL=363/363

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave

|                    |          |                |                  |
|--------------------|----------|----------------|------------------|
| Scale = .1875"/Ft. | QTY:1    | FL/-/5/-/-/R/- | REF R215-- 73526 |
| TC LL              | 20.0 PSF |                |                  |
| TC DL              | 10.0 PSF |                |                  |
| BC DL              | 10.0 PSF |                |                  |
| BC LL              | 0.0 PSF  |                |                  |
| TOT.LD.            | 40.0 PSF |                |                  |
| DUR.FAC.           | 1.25     |                |                  |
| SPACING            | 24.0"    |                |                  |



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6100 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGNER'S RESPONSIBILITY. DESIGNER'S RESPONSIBILITY FOR TRUSS DESIGN AND TPI'S RESPONSIBILITY FOR TRUSS MANUFACTURE. DESIGNER'S RESPONSIBILITY FOR TRUSS DESIGN AND TPI'S RESPONSIBILITY FOR TRUSS MANUFACTURE. DESIGNER'S RESPONSIBILITY FOR TRUSS DESIGN AND TPI'S RESPONSIBILITY FOR TRUSS MANUFACTURE. DESIGNER'S RESPONSIBILITY FOR TRUSS DESIGN AND TPI'S RESPONSIBILITY FOR TRUSS MANUFACTURE.



Top chord 2x4 SP #2 N  
Bot chord 2x10 SP #2 N :B2 2x10 SP SS:  
Webs 2x4 SP #2 N

Left and right cantilevers are exposed to wind

Calculated horizontal deflection is 0.20" due to live load and 0.20" due to dead load.

(A) Continuous lateral bracing equally spaced on member.

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 8-9-12 to 22-2-4.

The overall height of this truss excluding overhang is 10.3.0.

Design Dead Loads based on material weight adjusted for slope: TC: 1.00 PSF

110 mph wind, 15.46 ft mean hgt., ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)=0.18

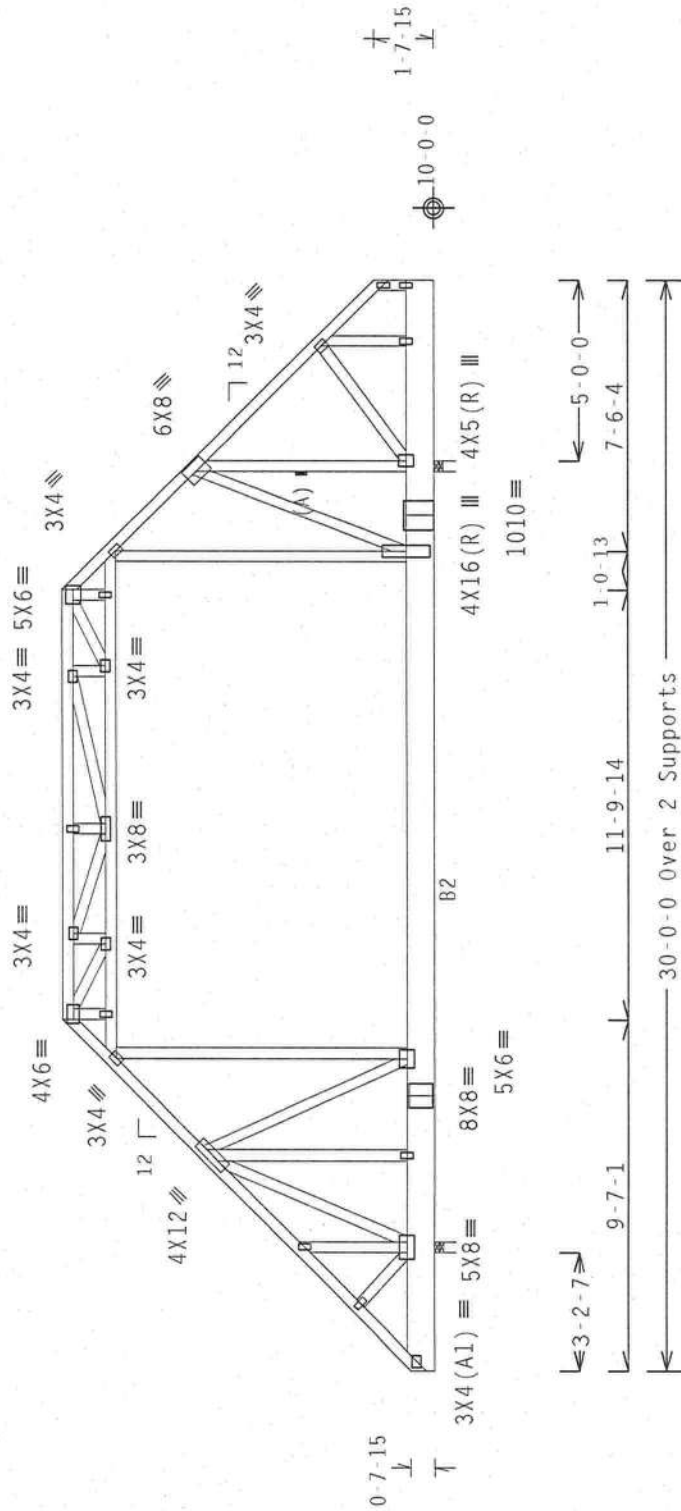
Wind reactions based on MWFRS pressures.

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

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 total load.

MWFRS loads based on trusses located at least 15.46 ft. from roof edge.



R=2013 U=60 W=3.5"  
RL=347/-339

R=2434 U=87 W=3.5"

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PIT TYP. Wave

[illegible]

Scale = .1875"/Ft.

REF R215-- 73527

DATE 10/04/10

ORW HCUSR215 10277035

HC-ENG JB/VHK

|       |        |
|-------|--------|
| SEQN- | 277809 |
|-------|--------|

FROM CDM

JREF- 1U5R215\_Z01

Oct. 05 '10

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0278

(6970B- /SPARKS CONSTRUCTION /Contractor -- LAKE CITY, FL A38)

Top chord 2x4 SP #2 N  
Bot chord 2x10 SP #2 N :82 2x10 SP 55:  
Webs 2x4 SP #2 N

Left and right cantilevers are exposed to wind

(A) Continuous lateral bracing equally spaced on member.

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

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 total load.

MWFRS loads based on trusses located at least 15.46 ft. from roof edge.

Design Dead Loads based on material weight adjusted for slope: TC: 1.00 PSF

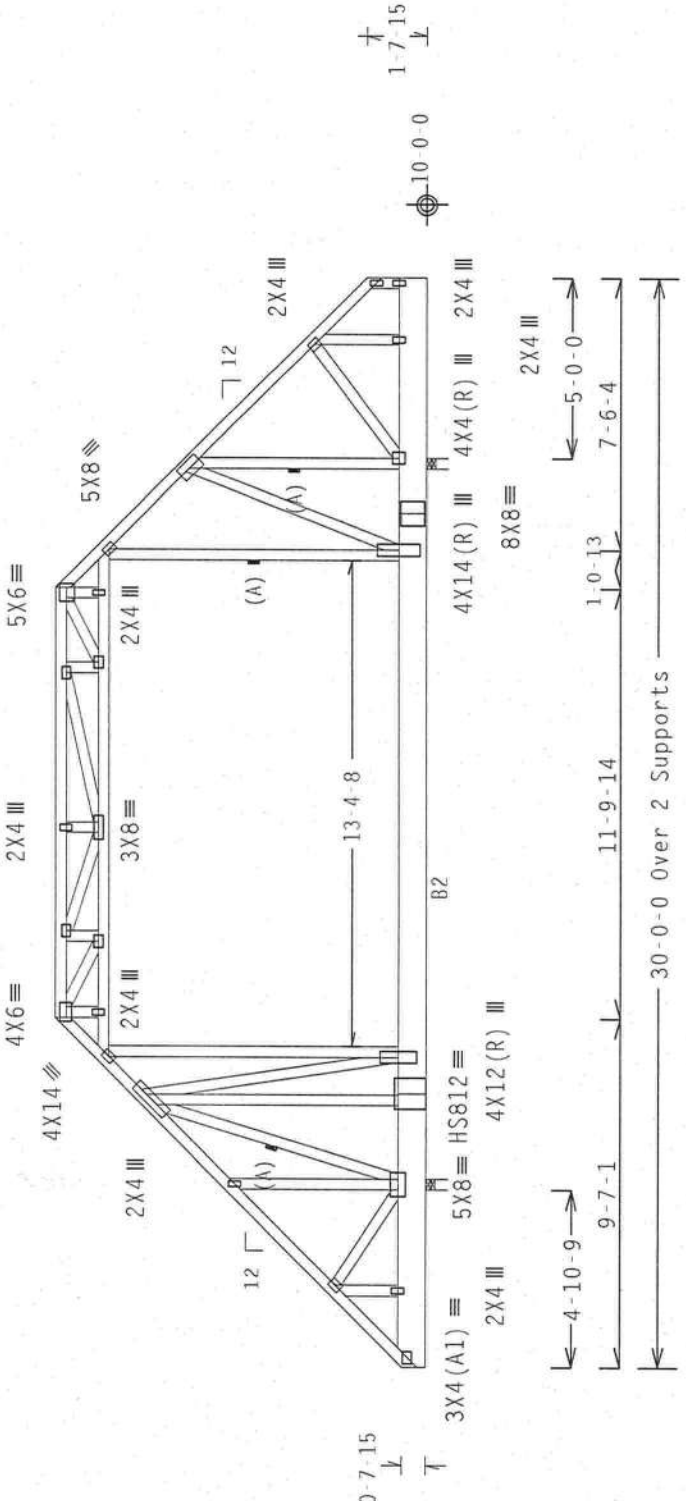
110 mph wind, 15.46 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind IC DL-5.0 psf, wind BC DL-5.0 psf.  $I_w=1.00$   $G_{Cpi}(+/-)=0.18$

Wind reactions based on MWFRS pressures.

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 8-9-12 to 22-2-4.

The overall height of this truss excluding overhang is 10-3-0.



R-2182 U-51 W-3.5"  
RL-347/-339

R-2266 U-83 W-3.5"

Note: All Plates Are 3x4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. 20 Gauge HS, Wave

|          |          |              |                    |
|----------|----------|--------------|--------------------|
| 10.01.00 | QTY:1    | FL/-5/-/-R/- | Scale = .1875"/Ft. |
| TC LL    | 20.0 PSF | REF          | R215 - 73528       |
| TC DL    | 10.0 PSF | DATE         | 10/04/10           |
| BC DL    | 10.0 PSF | DRW          | HCUSR215 10277036  |
| BC LL    | 0.0 PSF  | HC-ENG       | JB/WHK             |
| TOT.LD.  | 40.0 PSF | SEQN-        | 277824             |
| DUR.FAC. | 1.25     | FROM         | CDM                |
| SPACING  | 24.0"    | JREF-        | 1U5R215_Z01        |



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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO FOLLOW THE TRUSS IN CONFORMANCE WITH THE TPI OR BCG (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC. 2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Top chord 2x4 SP #2 N  
Bot chord 2x10 SP #2 N :B2 2x10 SP SS:  
Webs 2x4 SP #2 N

Design Dead Loads based on material weight adjusted for slope: IC: 1.00  
PSF

1110: mph wind, 15.46 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Left and right cantilevers are exposed to wind

Trusses to be spaced at 36.0" OC maximum.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 8-9-12 to 22-2-4.

MMWFRS loads based on trusses located at least 15.46 ft. from roof edge.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows  
in each row to avoid splitting

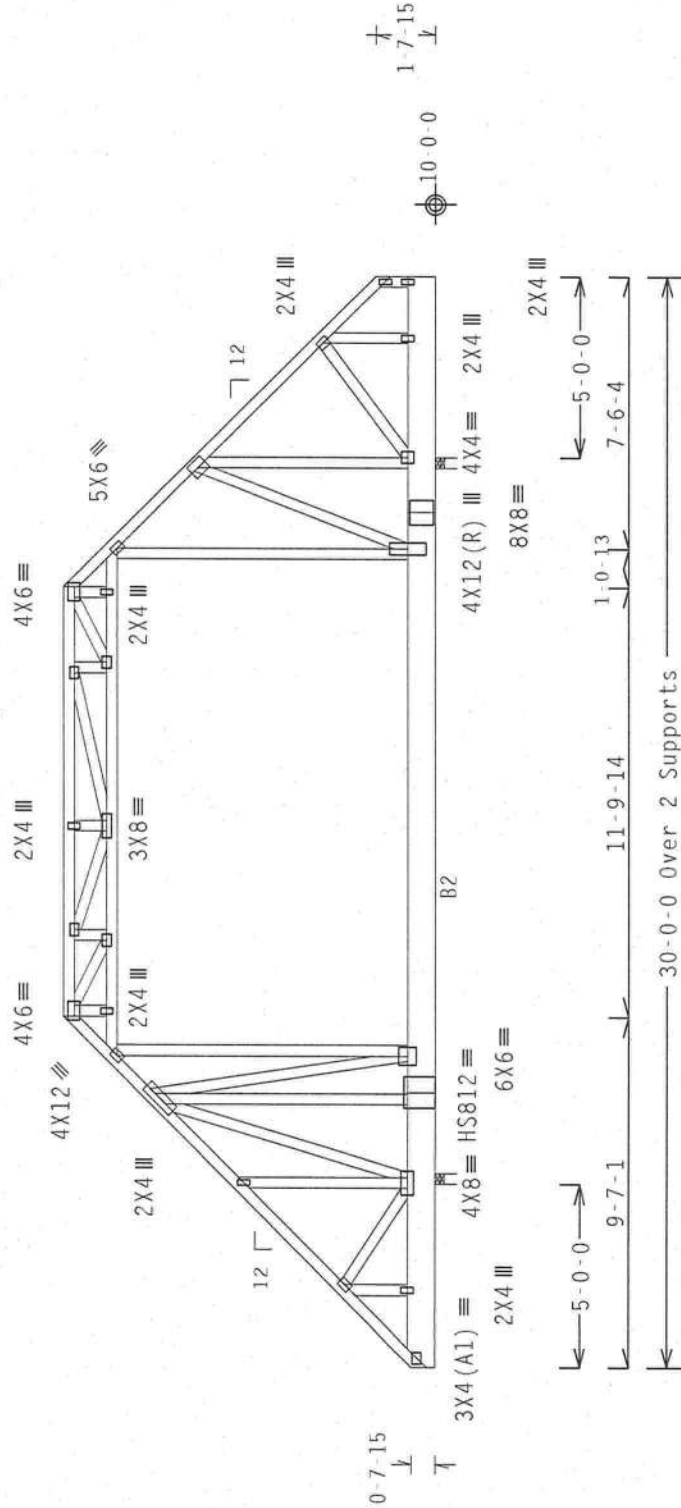
Wind reactions based on MWFRS pressures.

Collar tie braced with continuous lateral bracing at 24" OC.

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 10-3-0.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC. BC @ 24" OC.



R=3273 U=75 W=3.5"  
RL=520/-509

Note: All Plates Are 3X4 Except As Shown.

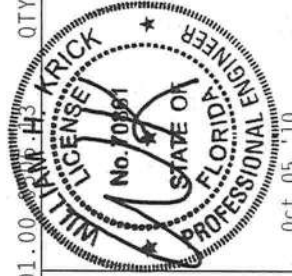
Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. 20 Gauge HS. Wave

.00

QTY:1 FL/-/5/-/-/R/-/

Scale = .1875"/Ft.

[illegible][illegible]

Haines City, FL 33844  
FL COA #0 278

Haines City, FL 33844

ines City, FL 338

|           |     |    |      |
|-----------|-----|----|------|
| Top chord | 2x4 | SP | #2 N |
| Bot chord | 2x4 | SP | #2 N |

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=-5.0 psf, wind BC DL=-5.0 psf, lw-1.00 GCpi(+/-)=-0.18

Roof overhang supports 2.00 psf soffit load.

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

The overall height of this truss excluding overhang is 0.7–15.

Wind reactions based on MWFRS pressures.

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

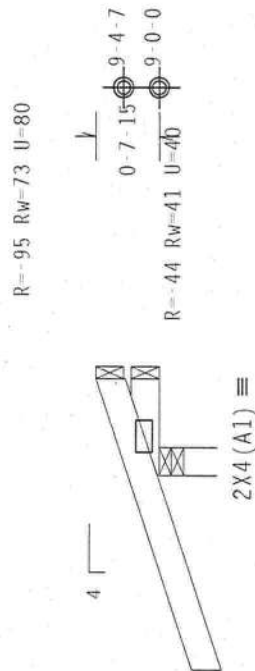


Diagram of a continuous beam with three supports. The beam is divided into three equal spans of 2.00 units each. The total length is 6.00 units. The beam is labeled "1.00 Over 3 Supports".

R=348 U=190 W=3.5"  
RL=39/-25

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

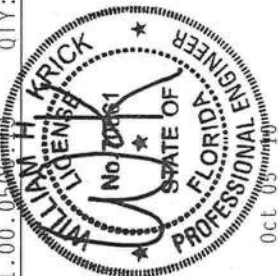
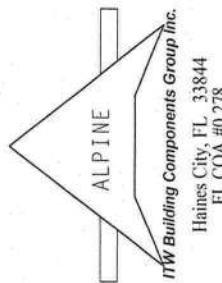
PLT TYP. Wave

QTY:2 FL/-/5/-/-/R/-

Scale = .5"/Ft.

**WARNING:** THUSSES PLACING EXTERIOR CABLE IN TUBIFICATION, HOOK LIPS, SHIPPING, UNLOADING AND BRACING REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (FIBERS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WICA (WOOD THUSS, COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MOBILE, AL 36619). UNLESS OTHERWISE INDICATED TOP CHORD 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 FOR REVIEW AND BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH IPT-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING OF TRUSSES, BY APPLICABLE AND IPT-1. FTM BCG CONNECTIONS COMPLYING WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC., BY APPLICABLE AND IPT-1. FTM BCG PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF IPT-1-2009-SEC.-2. A SEAL ON THIS BEARING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT AND NOT THE SEALING OF THIS COVER FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMER/IPT-1 SEC.-2.



City, FL 33  
FL COA #0278

|           |     |    |    |   |
|-----------|-----|----|----|---|
| Top chord | 2x4 | SP | #2 | N |
| Bot chord | 2x4 | SP | #2 | N |

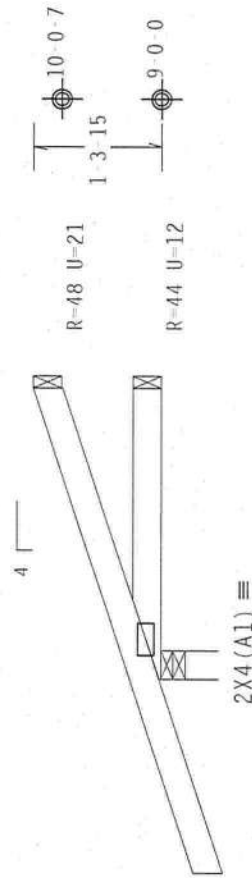
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 GCpi(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

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

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

The overall height of this truss excluding overhang is 1-3-15.



R=306 U=116 W=3.5"  
RL=57/-28

Design Crit:  $\text{FBC2007Res/TPI-2002(STD)}$   
 $\text{FT/RT}=20\%(0\%)/10(0)$ 

PLT TYP. Wave

10 01 00 05

OTY-2

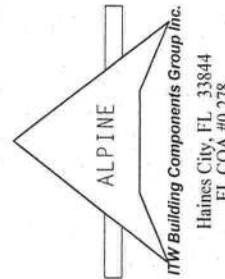
Scale = .5"/Ft.

**\*\*WARNING\*\*** INSIDE'S FRONT EXTERIOR CORE IN FABRICATION, HAND TAG, SHIPPING, INSTALLING AND BEACING, REFLECT TO BEST AVAILABLE INFORMATION. PUBLISHED BY THE CHIEF OF POLICE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304-4400, TEL: 703/681-6060, FAX: 703/681-6060, E-MAIL: [info@alexandriapolice.com](mailto:info@alexandriapolice.com), WEBSITE: [www.alexandriapolice.com](http://www.alexandriapolice.com), 5/27/19, TOP SECRET PRACTICES USED TO PROTECTING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP SECRET SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED BEIG, C12140.

**\*\*IMPORTANT\*\***FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE THOUSIS IN COMPLIANCE WITH IPT-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF THOUSIS.

CONTRACTORS MUST FOLLOW ALL APPLICABLE PROVISIONS OF SDS (NATIONAL DESIGN SPEC., BY AFCEA) AND IPT-1. ITW BEG HAS CONDUCTED VISUAL INSPECTIONS OF THOUSIS NORTH A663 GRADES 4070-80, 479-555 GALV. STEEL, APPLY PLATES TO EACH FACE OF THUSSES AND THOUSIS. THE MAXIMUM ALLOWED DEFLECTION PER LINEAL FOOT ON THESE THOUSIS IS .001". IF AN INSPECTION OF PLATES FOLLOWED BY (1). SHALL BE PERFORMED AS OF IPT-1 2002 SECT. 3.2.1 FOR THOUSIS HAVING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE THOUSIS COMPONENT TO BE SHOWN.

THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASD/AIPT-1 SEC. 2.



|          |       |     |                       |
|----------|-------|-----|-----------------------|
| TC LL    | 20.0  | PSF | REF R215-- 73531      |
| TC DL    | 10.0  | PSF | DATE 10/04/10         |
| BC DL    | 10.0  | PSF | DRW HCUSR215 10277002 |
| BC LL    | 0.0   | PSF | HC-ENG SSB/WHK        |
| TOT.LD.  | 40.0  | PSF | SEON- 276158          |
| DUR.FAC. | 1.25  |     | FROM CDM              |
| SPACING  | 24.0" |     | JREF- 11U5R215 701    |

( 6970B /SPARKS CONSTRUCTION /Contractor -- LAKE CITY, FL -- JE4 )

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N

Roof overhang supports 2.00 psf soffit load.

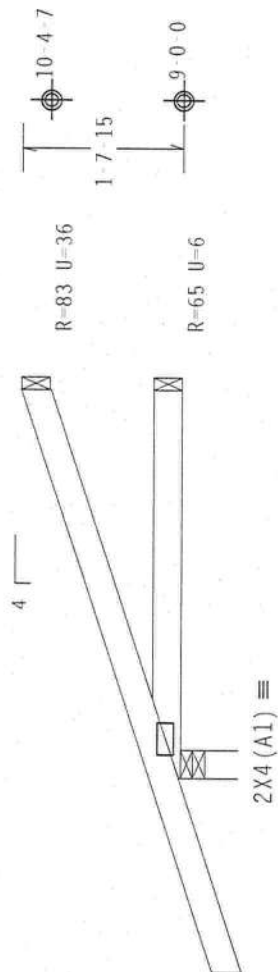
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 1-7-15.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCpi(1/1)=0.18

Wind reactions based on MWFRS pressures.

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

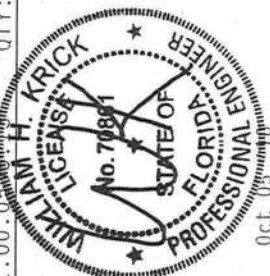


4-0-0 Over 3 Supports  
R=333 U=109 W=3.5"  
RL=68/-30

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

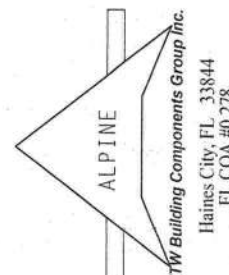
PLT TYP. Wave

|          |              |                       |
|----------|--------------|-----------------------|
| QTY:6    | FL/-5/-/-R/- | Scale = 5"/Ft.        |
| TC LL    | 20.0 PSF     | REF R215-- 73532      |
| TC DL    | 10.0 PSF     | DATE 10/04/10         |
| BC DL    | 10.0 PSF     | DRW HCUSR215 10277006 |
| BC LL    | 0.0 PSF      | HC-ENG SSB/WHK        |
| TOT.LD.  | 40.0 PSF     | SEQN- 276174          |
| DUR.FAC. | 1.25         | FROM CDM              |
| SPACING  | 24.0"        | JREF- 1U5R215_Z01     |



**\*\*WARNING\*\*** TROISSERES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND UTEA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ELM HARBOR, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID JOINTING.

**\*\*IMPORTANT\*\*** UPON A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITU BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE TRUSS IS TO BE INSTALLED IN CONFORMANCE WITH TPI'S OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITU BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (4-11/55/6) ASTM A503 GRADE 40/60 (4, 8/10/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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 SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



|           |     |         |
|-----------|-----|---------|
| Top chord | 2x4 | SP #2 N |
| Bot chord | 2x4 | SP #2 N |

110 mph wind, 15.00 ft mean hot, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(1/)=0.18

Wind reactions based on MWFRS pressures.

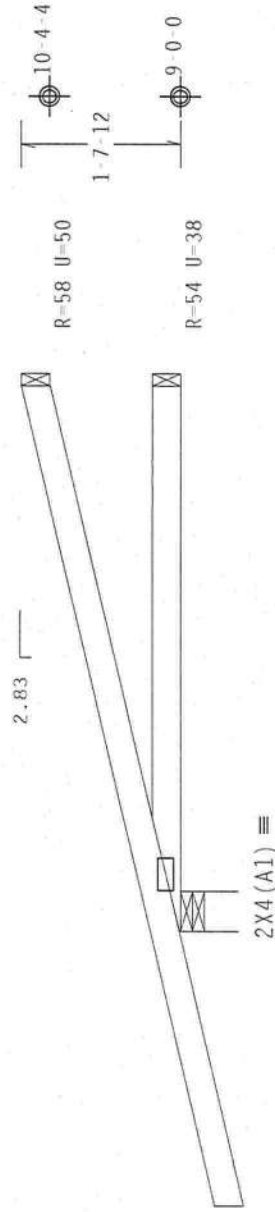
Roof overhang supports 2.00 psf soffit load.

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

The overall height of this truss excluding overhang is 1-7-12.

Special loads  
----- (Lumber

|                   | (Number | Dur.Fac.=1.25 | /     | Plate | Dur.Fac.=1.25) |
|-------------------|---------|---------------|-------|-------|----------------|
| TC-From           | 0       | plf at        | -2.83 | to    | 60 plf at 0.00 |
| TC-From           | 2       | plf at        | 0.00  | to    | 2 plf at 5.66  |
| BC-From           | 0       | plf at        | -2.83 | to    | 4 plf at 0.00  |
| BC-From           | 2       | plf at        | 0.00  | to    | 2 plf at 5.66  |
| TC-66.22 lb Conc. |         | Load at       | 1.48  |       |                |
| TC-95.74 lb Conc. |         | Load at       | 4.31  |       |                |
| BC-13.93 lb Conc. |         | Load at       | 1.48  |       |                |
| BC-87.08 lb Conc. |         | Load at       | 4.31  |       |                |

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.

10.01.00

FL/-/5/-/-/R/-

Scale = .5"/Ft.

|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 20.0 PSF | REF R215-- 73533      |
| TC DL    | 10.0 PSF | DATE 10/04/10         |
| BC DL    | 10.0 PSF | DRW HCUSR215 10277005 |
| BC LL    | 0.0 PSF  | HC-ENG SSB/WHK        |
| TOT.LD.  | 40.0 PSF | SEQN- 276202          |
| DUR.FAC. | 1.25     | FROM CDM              |
| SPACING  | 24.0"    | JREF- 1USR215_Z01     |

[illegible]

**ALPINE**

**MW Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0278

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

110 mph wind, 23.22 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf,  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.

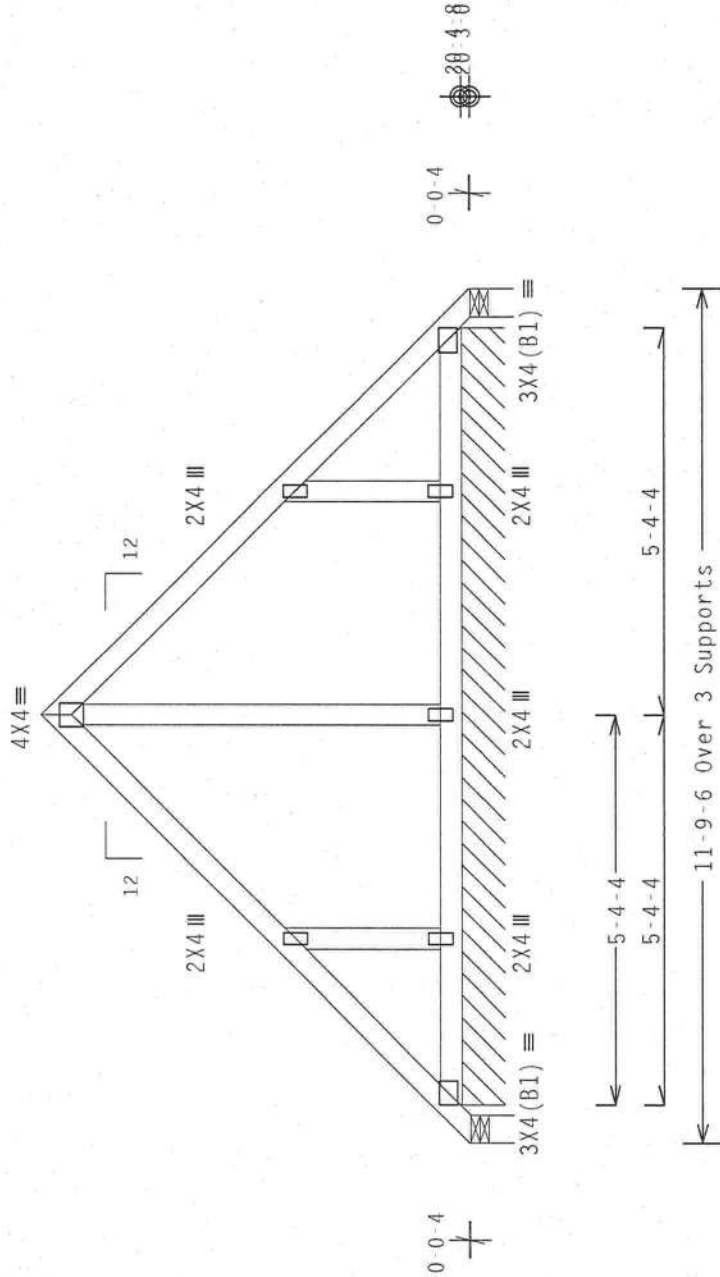
Refer to DWG PB1200109 for piggyback details.

Special loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC From 60 plf at -0.54 to 60 plf at 5.35  
TC From 60 plf at 5.35 to 60 plf at 11.24  
BC From 4 plf at -0.54 to 4 plf at 11.24

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

The overall height of this truss excluding overhang is 5'-10"-15".



R-9 Rw-189 U-179 W-4.7"  
RL=225/-225

R-67 PLF U-43 PLF W=10-8-8

R-9 Rw-24 U-11 W-4.7"

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

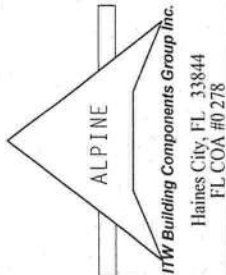
PLT TYP. Wave

QTY: 14

Scale = .375" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND DICA (DOWD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, BARTON, MI 48319) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE REG. INC. SHALL NOT BE RESPONSIBLE FOR ANY DERIVATION FROM THIS DESIGN. ANY ALTERATION TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE REG. INC. SHALL NOT BE RESPONSIBLE FOR ANY DERIVATION FROM THIS DESIGN. ANY ALTERATION TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE REG. INC. SHALL NOT BE RESPONSIBLE FOR ANY DERIVATION FROM THIS DESIGN. ANY ALTERATION TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R215 -- 73534     |
| TC DL    | 10.0 PSF | DATE   | 10/04/10          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215 10277038 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT.LD.  | 40.0 PSF | SEQN   | 277977            |
| DUR.FAC. | 1.25     | FROM   | CDM               |
| SPACING  | 24.0"    | JREF   | 1U5R215_Z01       |

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

110 mph wind, 21.72 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf.  
lw=1.00 GCpi (+/-)=0.18

Wind reactions based on MMFRS pressures.

The overall height of this truss excluding overhang is 2-10-15.

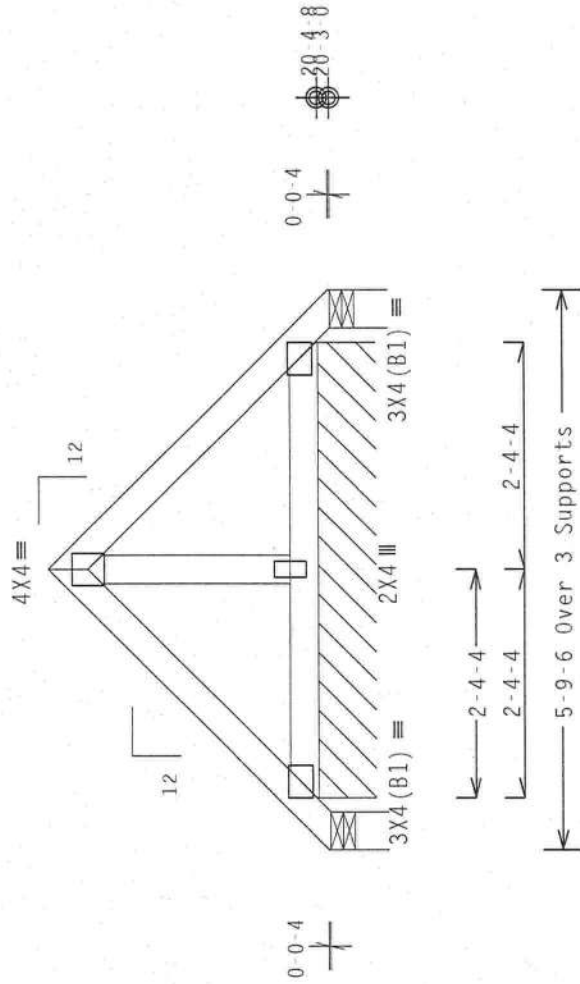
Refer to DWG PB1200109 for piggyback details.

Special loads

----- (Lumber  
TC From 60 plf at -0.54 to 60 plf at 2.35  
TC From 60 plf at 2.35 to 60 plf at 5.24  
BC From 4 plf at -0.54 to 4 plf at 5.24

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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



R=11 Rw=113 U=113 W=4.7"  
RL=106/-106

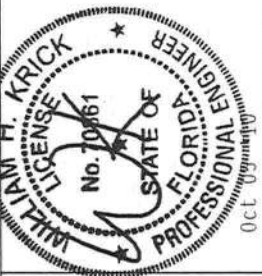
R=78 PLF U=54 PLF W=4-8-8  
R=11 Rw=33 U=32 W=4.7"

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

QTY: 8

Scale = .5" / Ft.

|                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|
| <br>Haines City, FL 33844<br>FL COA #0 278 | <b>**WARNING**</b> TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. |          | <b>**IMPORTANT**</b> FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, UNLESS OTHERWISE INDICATED, SHALL BE THE RESPONSIBILITY OF THE INSTALLER. THE BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, UNLESS OTHERWISE INDICATED, SHALL BE THE RESPONSIBILITY OF THE INSTALLER. |       |  |
|                                                                                                                                 | REF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R215     | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 73535 |  |
|                                                                                                                                 | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10/04/10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
|                                                                                                                                 | DRW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HCUR215  | 10277039                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |  |
|                                                                                                                                 | HC-ENG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | JB/WHK   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
| <br>Oct 09/2010                              | TOT.LD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 40.0     | PSF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |  |
|                                                                                                                                 | DUR.FAC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.25     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
|                                                                                                                                 | SPACING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24.0"    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
|                                                                                                                                 | TC LL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20.0     | PSF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |  |
|                                                                                                                                 | TC DL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10.0     | PSF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |  |
| BC DL                                                                                                                           | 10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PSF      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
| BC LL                                                                                                                           | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PSF      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
| SEQN-                                                                                                                           | 277973                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
| FROM                                                                                                                            | CDM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |
| JREF-                                                                                                                           | 1U5R215_Z01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |  |

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers.  
Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

The overall height of this truss excluding overhang is 16-9-0.

Refer to DWG PB1200109 for piggyback details.

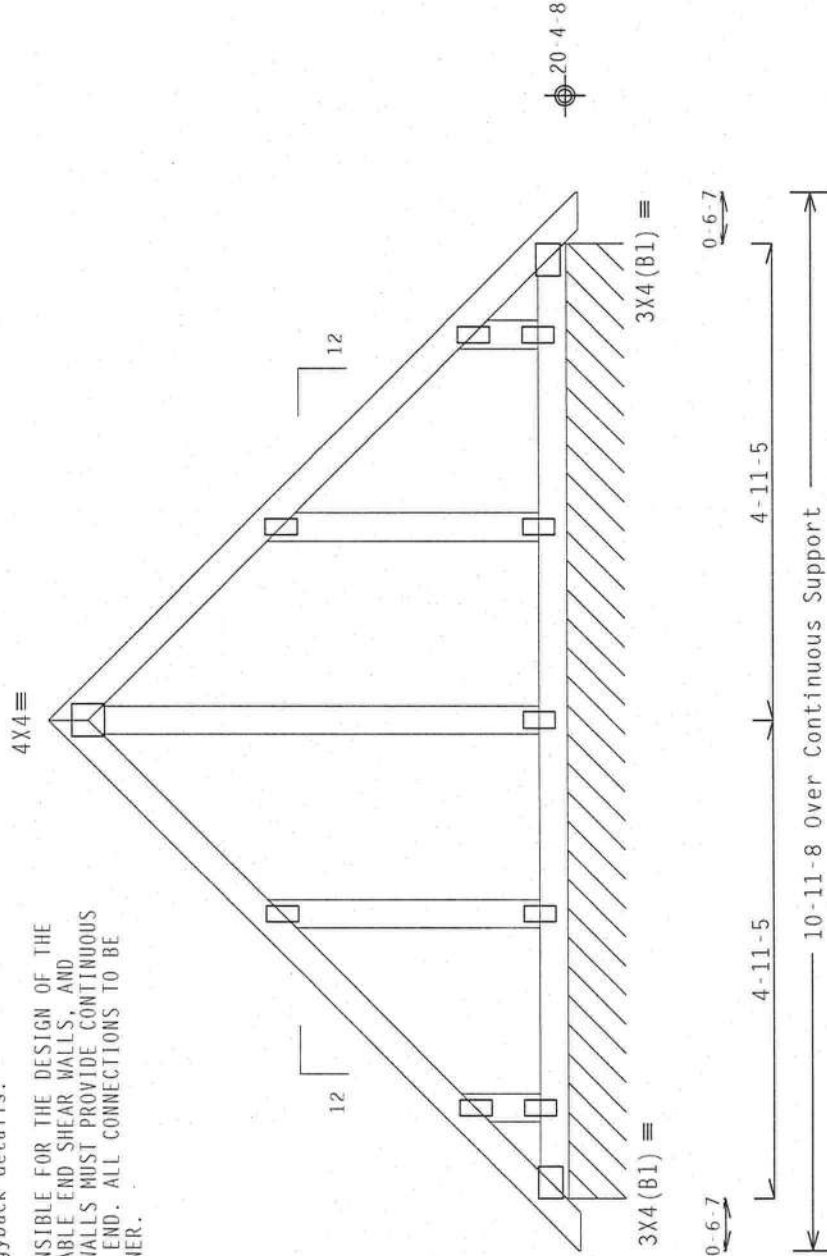
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

110 mph wind, 23.01 ft mean hgt, ASCE 7 05, CLOSED bldg, located anywhere in roof, CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCpi (+/-) = 0.18

Wind reactions based on MMFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.  
Deflection meets L/180 live and L/120 total load.

See DWGS A11030050109 & GBLLETIN0109 for more requirements.



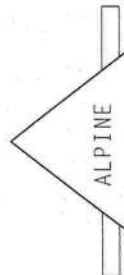
R=139 PLF U=33 PLF W=9-10-9  
RL=23/-23 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave  
FT/RT=20%(0%)/10(0)  
10.01.00 QTY:1 FL/-/5/-/-/R/-  
Scale = .5"/Ft.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R215 - - 73536    |
| TC DL    | 10.0 PSF | DATE   | 10/04/10          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215 10277040 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT.LD.  | 40.0 PSF | SEQN   | 278182            |
| DUR.FAC. | 1.25     | FROM   | CDM               |
| SPACING  | 24.0"    | JREF   | 1U5R215_Z01       |



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



Oct 05 '10

Top chord 2x4 SP #2 N :T2 2x6 SP #2 N:  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non concurrent live load.

Deflection meets L/180 live and L/120 total load.

MMFRS loads based on trusses located at least 11.50 ft. from roof edge.

Refer to DWG PB1200109 for piggyback details.

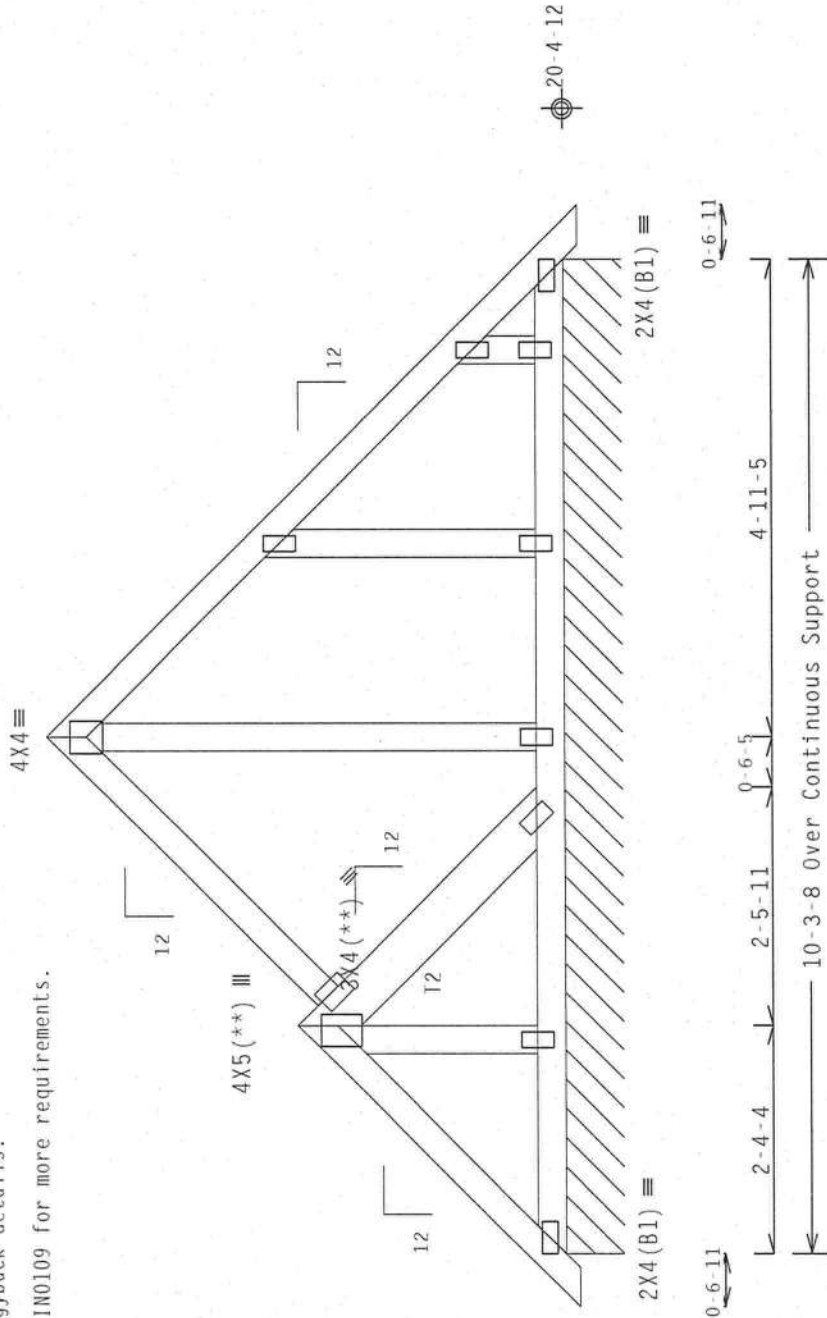
See DWGS A11030050109 & GBLLETIN0109 for more requirements.

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

110 mph wind, 23.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

The overall height of this truss excluding overhang is 16-9-0.



R-84 PLF U=18 PLF W=10-3-8

RL=22/-22 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

FT/RT=20%(0%)/10(0)

10.01.00

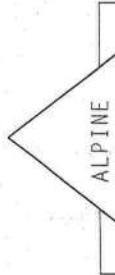
QTY:1

FL/-/5/-/-R/-

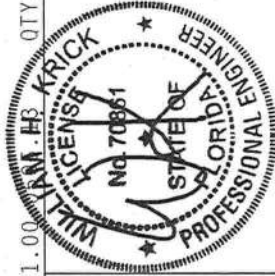
Scale = .5" /Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 N. MICHIGAN, CHICAGO, IL 60610) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TPI1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 N. MICHIGAN, CHICAGO, IL 60610) 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.



**ALPINE**  
Haines City, FL 33844  
FL COA #0 278



Oct 05 '10

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R215-- 73537      |
| TC DL    | 10.0 PSF | DATE   | 10/04/10          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215 10277041 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT.LD.  | 40.0 PSF | SEQN   | 278196            |
| DUR.FAC. | 1.25     | FROM   | CDM               |
| SPACING  | 24.0"    | JREF   | 1U5R215_Z01       |

| Top | chord | 2x4 | SP | #2 | N |
|-----|-------|-----|----|----|---|
| Bot | chord | 2x4 | SP | #2 | N |
|     | webs  | 2x4 | SP | #2 | N |

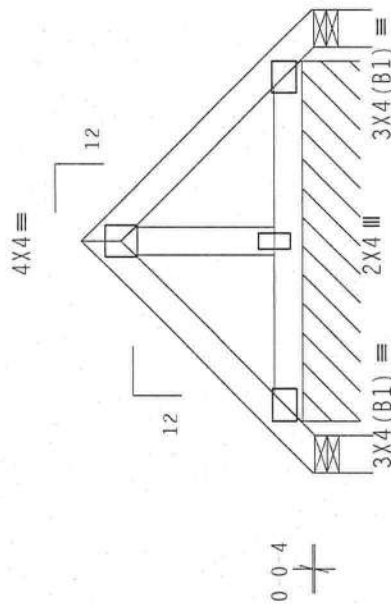
| Special loads | Dur. Fac. = 1.25 / plate |                   | Dur. Fac. = 1.25 |                   |
|---------------|--------------------------|-------------------|------------------|-------------------|
| (Lumber       | 60 plf at -0.54          | to 60 plf at 1.85 | 60 plf at -0.54  | to 60 plf at 1.85 |
| TC- From      | 60 plf at -0.54          | to 60 plf at 1.85 | 60 plf at -0.54  | to 60 plf at 1.85 |
| TC- From      | 60 plf at -0.54          | to 60 plf at 1.85 | 60 plf at -0.54  | to 60 plf at 1.85 |
| BC- From      | 60 plf at -0.54          | to 60 plf at 1.85 | 60 plf at -0.54  | to 60 plf at 1.85 |

Wind reactions based on MWFRS pressures.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

The overall height of this truss excluding overhang is 2'4"-15".

Refer to DWG PB1200109 for piggyback details.



R=1 R<sub>w</sub>=80 U=78 W=4.7"  
RL=86/-86

R=1 R<sub>W</sub>=14 U=12 W=4.7"

4-9-6 Over 3 Supports

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave

10.01.09

FT/RT=20%(0%)/10(0)

QTY:1 FL/-/5/-/-/R/-

FL/-/5/-/-/R/-

Scale = .5"/Ft.

OFF R215 - - 73538

DATE 10/04/10

10/04/10

JRW HCUSR215 102/1042

HC-ENG JB/WHK

SEQN- 278074

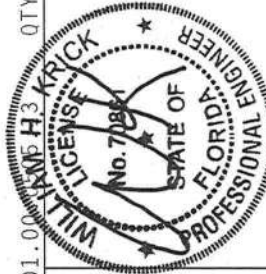
FROM CDM

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows  
in each row to avoid splitting

1110 mph wind, 20.97 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf. lw=1.00 GCpi(1/-)=0.18

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

[illegible][illegible]

ALPINE

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





# CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

## NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

| WEB MEMBER SIZE | SPECIFIED CLB BRACING | ALTERNATIVE BRACING T OR L-BRACE | SCAB BRACE |
|-----------------|-----------------------|----------------------------------|------------|
| 2X3 OR 2X4      | 1 ROW                 | 2X4                              | 1-2X4      |
| 2X3 OR 2X4      | 2 ROWS                | 2X6                              | 2-2X4      |
| 2X6             | 1 ROW                 | 2X4                              | 1-2X6      |
| 2X6             | 2 ROWS                | 2X6                              | 2-2X4(*)   |
| 2X8             | 1 ROW                 | 2X6                              | 1-2X8      |
| 2X8             | 2 ROWS                | 2X6                              | 2-2X6(*)   |

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(\*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

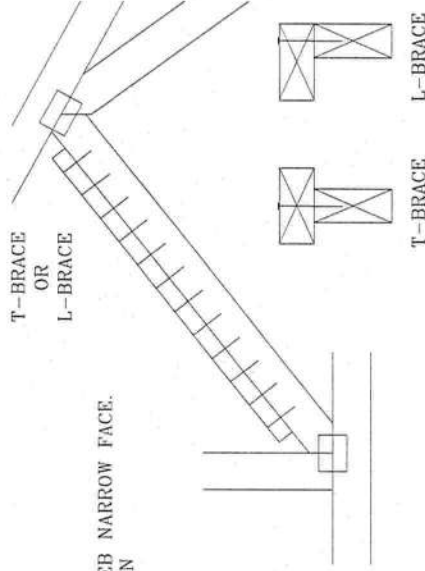
T-BRACING

OR

L-BRACING:

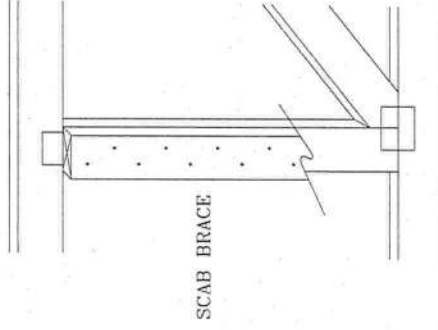
APPLY TO EITHER SIDE OF WEB NARROW FACE. ATTACH WITH 10d BOX OR GUN (0.128" x 3" MIN) NAILS.

AT 6" O.C.  
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE. ATTACH WITH 10d BOX OR GUN (0.128" x 3" MIN) NAILS. AT 6" O.C.  
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



Building Components Group Inc.

Earth City, MO 63045

**\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET**  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information, by TPI and WTC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural panels and bottom chord shall have a properly attached rigid ceiling. Trusses shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

**\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.**  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 50/10/106A (W41/S/K) ASTM A653 grade 37/40/60 (K yield) steel. Apply plates to each face of truss, positioned as shown above and on details. Details shall be used for design and construction. The suitability and use of this component for any building is the responsibility of the Building Designer per ANST/TPI 1 Sec. 2.  
ITW-BCG: www.itwbcg.com; TPI: www.tpinet.com; WTC: www.alcindustry.com; ICC: www.iccsafe.org

TC LL PSF REF CLB SUBST.

TC DL PSF DATE 1/1/09

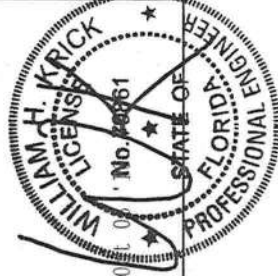
BC DL PSF DRWG BRCLBSUB0109

BC LL PSF

TOT. LD.

DUR. FAC.

SPACING



# GABLE STUD REINFORCEMENT DETAIL

ASCE 7-05: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

| 2x4<br>GABLE VERTICAL<br>SPACING |     | BRACE    |         | NO<br>BRACES |        | (1) 1x4 "L" BRACE • |         | (1) 2x4 "L" BRACE •• |         | (1) 2x6 "L" BRACE • |         | (2) 2x6 "L" BRACE • |         | (2) 2x8 "L" BRACE • |         |
|----------------------------------|-----|----------|---------|--------------|--------|---------------------|---------|----------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|
|                                  |     | SPECIES  | GRADE   |              |        | GROUP A             | GROUP B | GROUP A              | GROUP B | GROUP A             | GROUP B | GROUP A             | GROUP B | GROUP A             | GROUP B |
| 24" O.C.                         | SPF | STANDARD | #1 / #2 | 3' 8"        | 6' 4"  | 6' 6"               | 7' 6"   | 7' 8"                | 8' 11"  | 9' 2"               | 11' 9"  | 12' 1"              | 14' 0"  | 14' 0"              | 14' 0"  |
|                                  | HF  |          | 3' 7"   | 5' 5"        | 5' 5"  | 7' 2"               | 7' 2"   | 8' 11"               | 8' 11"  | 11' 2"              | 11' 2"  | 14' 0"              | 14' 0"  | 14' 0"              |         |
|                                  | SP  |          | 3' 7"   | 4' 8"        | 4' 8"  | 6' 1"               | 6' 1"   | 8' 3"                | 8' 3"   | 9' 6"               | 9' 6"   | 12' 11"             | 12' 11" | 14' 0"              |         |
|                                  |     |          | 3' 11"  | 6' 4"        | 6' 10" | 7' 6"               | 8' 1"   | 8' 11"               | 9' 7"   | 11' 9"              | 12' 8"  | 14' 0"              | 14' 0"  | 14' 0"              |         |
| 24" O.C.                         | DFL | STANDARD | #3      | 3' 9"        | 5' 7"  | 5' 7"               | 7' 4"   | 7' 4"                | 8' 11"  | 9' 5"               | 11' 5"  | 14' 0"              | 14' 0"  | 14' 0"              |         |
|                                  | SPF |          | 3' 9"   | 5' 6"        | 5' 6"  | 7' 3"               | 7' 3"   | 8' 11"               | 9' 5"   | 11' 4"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  |     |          | 3' 8"   | 4' 9"        | 6' 3"  | 8' 5"               | 8' 5"   | 9' 9"                | 13' 3"  | 14' 0"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | HF  |          | 4' 2"   | 7' 3"        | 7' 5"  | 8' 7"               | 8' 10"  | 10' 3"               | 10' 6"  | 13' 5"              | 13' 10" | 14' 0"              | 14' 0"  | 14' 0"              |         |
| 16" O.C.                         | SPF | STANDARD | #3      | 4' 1"        | 6' 8"  | 6' 8"               | 8' 7"   | 8' 7"                | 10' 3"  | 10' 3"              | 13' 5"  | 13' 5"              | 14' 0"  | 14' 0"              |         |
|                                  | HF  |          | 4' 1"   | 8' 0"        | 8' 0"  | 8' 7"               | 8' 7"   | 10' 3"               | 10' 3"  | 13' 5"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | SP  |          | 4' 7"   | 5' 8"        | 5' 8"  | 7' 6"               | 7' 6"   | 10' 1"               | 10' 1"  | 11' 8"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  |     |          | 4' 6"   | 7' 3"        | 7' 3"  | 8' 7"               | 9' 3"   | 10' 3"               | 10' 3"  | 13' 5"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
| 16" O.C.                         | DFL | STANDARD | #1      | 4' 6"        | 7' 3"  | 7' 9"               | 8' 7"   | 9' 3"                | 11' 0"  | 13' 5"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | SPF |          | 4' 4"   | 6' 10"       | 6' 10" | 8' 7"               | 9' 0"   | 10' 3"               | 10' 9"  | 13' 5"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  |     |          | 4' 4"   | 6' 9"        | 6' 9"  | 8' 7"               | 8' 11"  | 10' 3"               | 10' 9"  | 13' 5"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | HF  |          | 4' 2"   | 5' 10"       | 5' 10" | 7' 8"               | 7' 8"   | 10' 3"               | 10' 4"  | 11' 11"             | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
| 12" O.C.                         | SPF | STANDARD | #1 / #2 | 4' 7"        | 8' 0"  | 8' 2"               | 9' 5"   | 9' 8"                | 11' 3"  | 11' 7"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | HF  |          | 4' 6"   | 7' 8"        | 7' 8"  | 9' 5"               | 9' 5"   | 11' 3"               | 11' 3"  | 14' 0"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | SP  |          | 4' 6"   | 7' 8"        | 7' 8"  | 9' 5"               | 9' 5"   | 11' 3"               | 11' 3"  | 14' 0"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  |     |          | 4' 6"   | 6' 7"        | 6' 7"  | 8' 8"               | 8' 8"   | 11' 3"               | 11' 3"  | 13' 6"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
| 12" O.C.                         | DFL | STANDARD | #1      | 5' 1"        | 8' 0"  | 8' 0"               | 9' 5"   | 10' 2"               | 11' 3"  | 12' 1"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | SPF |          | 4' 11"  | 8' 0"        | 8' 7"  | 9' 5"               | 10' 2"  | 11' 3"               | 12' 1"  | 14' 0"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  |     |          | 4' 9"   | 7' 11"       | 7' 11" | 9' 5"               | 9' 11"  | 11' 3"               | 11' 10" | 14' 0"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | HF  |          | 4' 9"   | 7' 9"        | 7' 9"  | 9' 5"               | 9' 11"  | 11' 3"               | 11' 10" | 14' 0"              | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
| 12" O.C.                         | DFL | STANDARD | #3      | 4' 7"        | 6' 9"  | 6' 9"               | 8' 10"  | 8' 10"               | 11' 7"  | 13' 10"             | 13' 10" | 14' 0"              | 14' 0"  |                     |         |
|                                  | SPF |          | 4' 7"   | 6' 9"        | 6' 9"  | 8' 10"              | 8' 10"  | 11' 7"               | 13' 10" | 13' 10"             | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  |     |          | 4' 7"   | 6' 9"        | 6' 9"  | 8' 10"              | 8' 10"  | 11' 7"               | 13' 10" | 13' 10"             | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |
|                                  | HF  |          | 4' 7"   | 6' 9"        | 6' 9"  | 8' 10"              | 8' 10"  | 11' 7"               | 13' 10" | 13' 10"             | 14' 0"  | 14' 0"              | 14' 0"  |                     |         |

BRACING GROUP SPECIES AND GRADES:

GROUP A:

|                 |          |
|-----------------|----------|
| SPRUCE-PINE-FIR | HEM-FIR  |
| #1 / #2         | #2       |
| STANDARD        | STANDARD |

GROUP B:

|                   |               |
|-------------------|---------------|
| DOUGLAS FIR-LARCH | SOUTHERN PINE |
| #3                | #3            |
| STANDARD          | STANDARD      |

GROUP C:

|                   |               |
|-------------------|---------------|
| DOUGLAS FIR-LARCH | SOUTHERN PINE |
| #1                | #1            |
| #2                | #2            |

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

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

ATTACH EACH "L" BRACE WITH 10d NAILS.

\* FOR (1) "L" BRACE: SPACE NAILS AT 2' 0" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

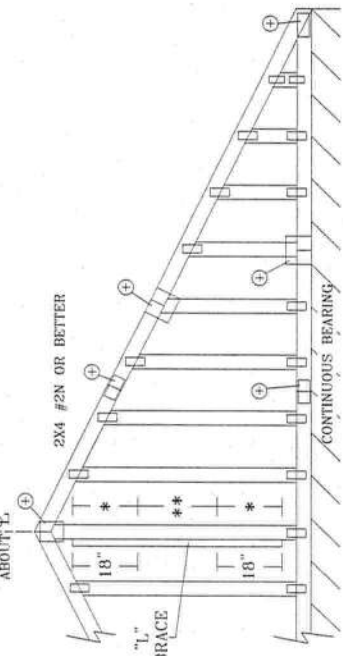
\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' 0" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES

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

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCS (Building Component Safety Information, by TPI and WTC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS. Unless noted otherwise, top chord shall have properly attached structural panels and bottom chord shall have a properly attached rigid webbing. Trusses shall be braced for permanent lateral restraint of webs shall have bracing installed per BCS sections B3 & B7. See this job's general notes page for more information.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 5016/16GA (W16/S16) ASTM A563 grade 37/40/60 (F60/S60) steel. Apply plates to each face of truss, positioned as shown above and on Joist Details. The responsibility of the Building Designer per ANS/TP1 1 Sec. 2.

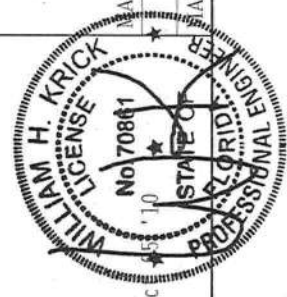
ITW-BCG: www.itwbcg.com; TPI: www.tpinet.com; WTC: www.abcdindustry.com; ICC: www.iccsafe.org



Earth City, MO 63045

|      |                  |
|------|------------------|
| REF  | ASCE7-05-GAB1030 |
| DATE | 1/1/09           |
| DRWG | A11030050109     |

|                      |                    |
|----------------------|--------------------|
| MAX. TOT. LD. 60 PSF | MAX. SPACING 24.0" |
|----------------------|--------------------|

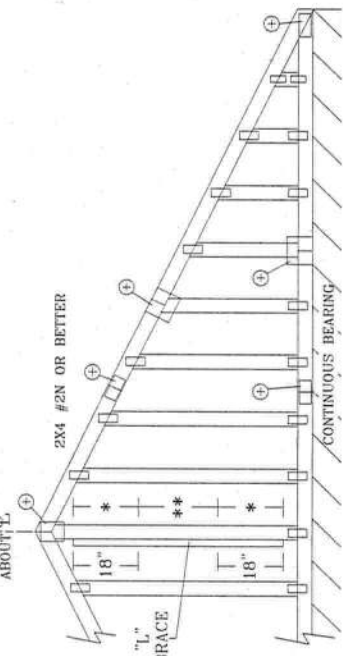
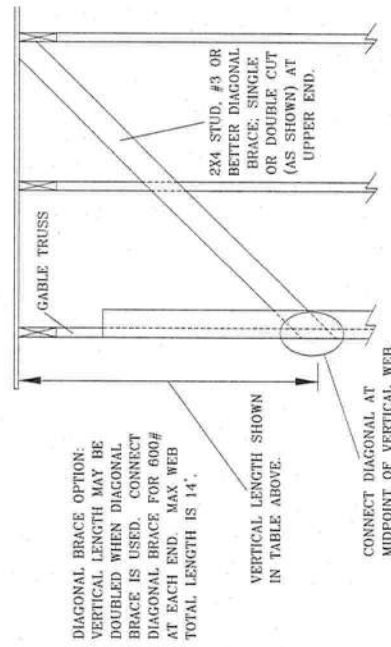




# GABLE STUD REINFORCEMENT DETAIL

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

| 2X4 GABLE STUD REINFORCEMENT DETAIL |                        | BRACING GROUP SPECIES AND GRADES: |         |           |          |                   |         |                   |         |                   |          |                   |         |
|-------------------------------------|------------------------|-----------------------------------|---------|-----------|----------|-------------------|---------|-------------------|---------|-------------------|----------|-------------------|---------|
|                                     |                        | GROUP A:                          |         |           | GROUP B: |                   |         | GROUP C:          |         |                   | GROUP D: |                   |         |
| MAX GABLE VERTICAL LENGTH           | GABLE VERTICAL SPACING | BRACE                             |         | NO BRACES |          | (1) 1X4 "L" BRACE |         | (2) 2X4 "L" BRACE |         | (1) 2X6 "L" BRACE |          | (2) 2X6 "L" BRACE |         |
|                                     |                        | GRADE                             | SPACING | GRADE     | SPACING  | GROUP A           | GROUP B | GROUP A           | GROUP B | GROUP A           | GROUP B  | GROUP A           | GROUP B |
| 12" O.C.                            | SPF                    | #1 / #2                           | 3' 10"  | #3        | 6' 0"    | 6' 8"             | 6' 10"  | 7' 11"            | 7' 11"  | 8' 1"             | 9' 5"    | 9' 5"             | 12' 5"  |
|                                     | HF                     | STANDARD                          | 3' 9"   | STANDARD  | 6' 0"    | 6' 0"             | 6' 0"   | 7' 11"            | 7' 11"  | 7' 11"            | 9' 5"    | 9' 5"             | 12' 4"  |
|                                     | SP                     | #1                                | 4' 3"   | #2        | 6' 8"    | 7' 2"             | 7' 2"   | 7' 11"            | 7' 11"  | 8' 6"             | 9' 5"    | 10' 2"            | 12' 5"  |
|                                     | DFL                    | STANDARD                          | 4' 0"   | STANDARD  | 6' 2"    | 6' 2"             | 6' 2"   | 7' 11"            | 7' 11"  | 8' 1"             | 9' 5"    | 10' 2"            | 12' 5"  |
| 16" O.C.                            | SPF                    | #1 / #2                           | 4' 5"   | STANDARD  | 3' 10"   | 5' 3"             | 5' 3"   | 6' 11"            | 6' 11"  | 8' 0"             | 9' 11"   | 10' 10"           | 12' 6"  |
|                                     | HF                     | STANDARD                          | 4' 4"   | STANDARD  | 7' 4"    | 7' 4"             | 7' 4"   | 9' 1"             | 9' 1"   | 9' 4"             | 10' 10"  | 11' 1"            | 14' 0"  |
|                                     | SP                     | #1                                | 4' 10"  | #2        | 7' 8"    | 7' 8"             | 7' 8"   | 9' 1"             | 9' 1"   | 9' 9"             | 10' 10"  | 11' 8"            | 14' 0"  |
|                                     | DFL                    | STANDARD                          | 4' 6"   | STANDARD  | 7' 6"    | 7' 6"             | 7' 6"   | 9' 1"             | 9' 1"   | 9' 6"             | 10' 10"  | 11' 4"            | 14' 0"  |
| 12" O.C.                            | SPF                    | #1 / #2                           | 4' 11"  | STANDARD  | 4' 5"    | 8' 5"             | 8' 5"   | 10' 0"            | 10' 0"  | 10' 3"            | 11' 11"  | 12' 3"            | 14' 0"  |
|                                     | HF                     | STANDARD                          | 4' 9"   | STANDARD  | 8' 5"    | 8' 5"             | 8' 5"   | 10' 0"            | 10' 0"  | 10' 0"            | 11' 11"  | 14' 0"            | 14' 0"  |
|                                     | SP                     | #1                                | 5' 4"   | #2        | 8' 5"    | 8' 5"             | 8' 5"   | 10' 0"            | 10' 0"  | 10' 9"            | 11' 11"  | 12' 10"           | 14' 0"  |
|                                     | DFL                    | STANDARD                          | 5' 0"   | STANDARD  | 8' 5"    | 8' 5"             | 8' 5"   | 10' 0"            | 10' 0"  | 10' 6"            | 11' 11"  | 12' 6"            | 14' 0"  |



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.



Earth City, MO 63045

**WARNING:** READ AND FOLLOW ALL NOTES ON THIS SHEET. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural panels and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

**IMPORTANT:** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 2016/16GA (W/H/S/K) ASTM A653 grade 37/40/60 (K/W/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. The installer shall be responsible 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. ITW-BCG: www.itwbcg.com; TPI: www.tpiust.com; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASC7-05-GAB1015  
DATE 1/1/09  
DRWG A11015050109

BRACING GROUP SPECIES AND GRADES:

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

| GROUP B:          |               |
|-------------------|---------------|
| DOUGLAS FIR-LARCH | SOUTHERN PINE |
| #3                | #3            |
| STANDARD          | STANDARD      |

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
- GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS. (0.126 x3 min)
- FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
- FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

| GABLE VERTICAL PLATE SIZES              |            |
|-----------------------------------------|------------|
| VERTICAL LENGTH                         | NO SPLICE  |
| LESS THAN 4' 0"                         | 1X4 OR 2X3 |
| GREATER THAN 4' 0" BUT LESS THAN 11' 6" | 2.5X4      |
| GREATER THAN 11' 6"                     | 3X4        |

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

# NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCE THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

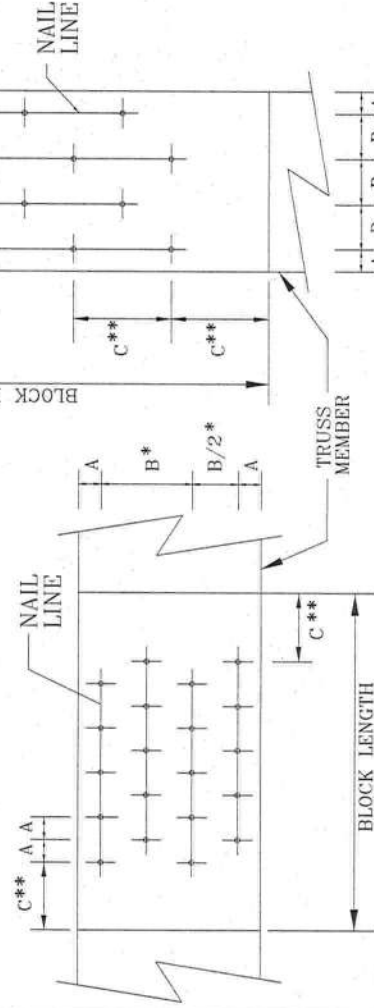
IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

\* SPACING MAY BE REDUCED BY 50%

\*\* SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS

BLOCK LENGTH



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCS Building Component Safety Information, by TPI and WTCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS. Unless noted otherwise, top chord shall have properly attached structural panels and bottom chord shall have a properly attached rigid gusset plate. Trusses shall be braced in accordance with the bracing installed per BCS sections B3 & B7. See this job's general notes page for more information.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 2016/16GA (W11/S1/K) ASTM A653 grade 37/40/60 (K55/S1) steel. Trusses shall be braced in accordance with the bracing installed per BCS sections B3 & B7. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility safety 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.

ITW - BCG: www.itwbcg.com; TPI: www.tpinet.com; WTCA: www.alcindustry.com; ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

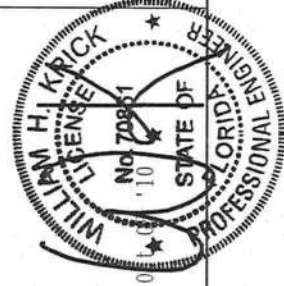
## MINIMUM NAIL SPACING DISTANCES

| NAIL TYPE                      | DISTANCES |        |        |        |
|--------------------------------|-----------|--------|--------|--------|
|                                | A         | B*     | C**    | D      |
| 8d BOX (0.113"X 2.5",MIN)      | 3/4"      | 1 3/8" | 1 3/4" | 7/8"   |
| 10d BOX (0.128"X 3",MIN)       | 7/8"      | 1 5/8" | 2"     | 1"     |
| 12d BOX (0.128"X 3.25",MIN)    | 7/8"      | 1 5/8" | 2"     | 1"     |
| 16d BOX (0.135"X 3.5",MIN)     | 7/8"      | 1 5/8" | 2 1/8" | 1 1/8" |
| 20d BOX (0.148"X 4",MIN)       | 1"        | 1 7/8" | 2 1/4" | 1 1/8" |
| 8d COMMON (0.131"X 2.5",MIN)   | 7/8"      | 1 5/8" | 2"     | 1"     |
| 10d COMMON (0.148"X 3",MIN)    | 1"        | 1 7/8" | 2 1/4" | 1 1/8" |
| 12d COMMON (0.148"X 3.25",MIN) | 1"        | 1 7/8" | 2 1/4" | 1 1/8" |
| 16d COMMON (0.162"X 3.5",MIN)  | 1"        | 2"     | 2 1/2" | 1 1/4" |
| GUN (0.120"X 2.5",MIN)         | 3/4"      | 1 1/2" | 1 7/8" | 1"     |
| GUN (0.131"X 2.5",MIN)         | 7/8"      | 1 5/8" | 2"     | 1"     |
| GUN (0.120"X 3",MIN)           | 3/4"      | 1 1/2" | 1 7/8" | 1"     |
| GUN (0.131"X 3",MIN)           | 7/8"      | 1 5/8" | 2"     | 1"     |

REF NAIL SPACE

DATE 1/1/09

DRWG CANNILSP0109



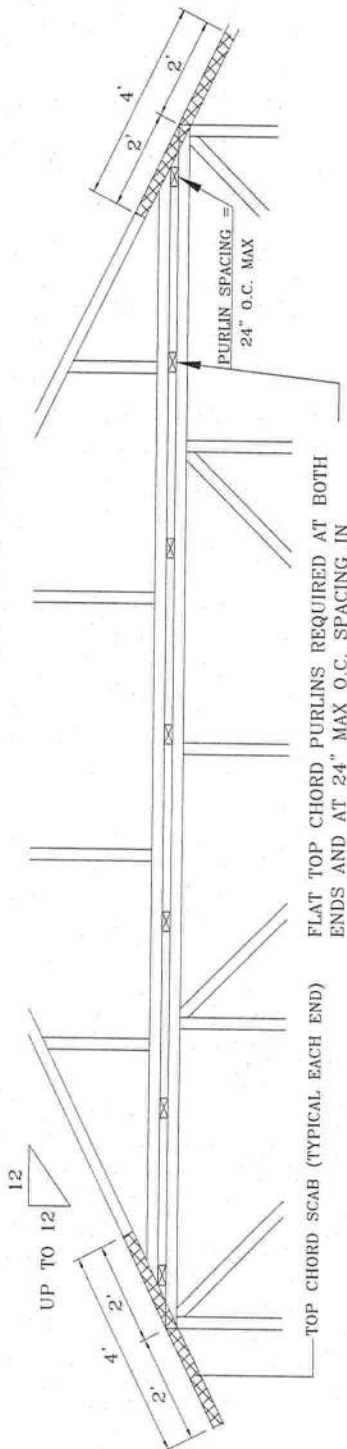
UP TO 120 MPH WIND. 30.00 FT MEAN HGT. ASCE 7-02 OR ASCE 7-05, ENCLOSED BLDG. LOCATED ANYWHERE IN ROOF. CAT II, EXP C, WIND DL= 5.0 PSF (MIN), Kzt=1.0.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. THE BUILDING ENGINEER OF RECORD SHALL PROVIDE DIAGONAL BRACING OR ANY OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS, AND LATERAL BRACING FOR OUT OF PLANE LOADS OVER GABLE ENDS.

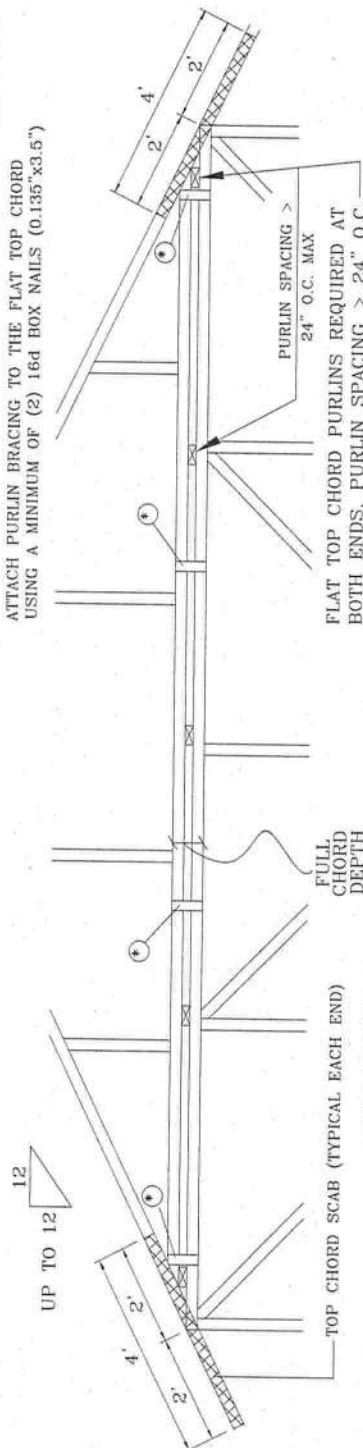
PIPGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD  
PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5")  
AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB  
(1 SIDE ONLY AT EACH END) ATTACHED WITH  
2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4" O.C.

ATTACH PURLIN BRACING TO THE FLAT TOP CHORD  
USING (2) 16d BOX NAILS (0.135" x 3.5")

THE TOP CHORD #3 GRADE 2x4 SCAB MAY BE REPLACED WITH EITHER OF THE FOLLOWING: (1) 3x8 TRUSS PLATE ATTACHED WITH (8) 0.120"x1.375" NAILS, (4) INTO CAP TC & (4) INTO BASE TRUSS TC OR (1) 28PB WAVE PIGGYBACK PLATE PLATED TO THE PIGGYBACK TRUSS TC AND ATTACHED TO THE BASE TRUSS TC WITH (4) 0.120"x1.375" NAILS. NOTE: NAILING THRU HOLES OF WAVE PLATE IS ACCEPTABLE.



PIGGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5") AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY AT EACH END) ATTACHED WITH 2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4" O.C.



NOTE: IF PURLINS OR SHEATHING ARE NOT SPECIFIED ON THE FLAT TOP OF THE BASE TRUSS, PURLINS MUST BE INSTALLED AT 24" O.C. MAX. AND USE DETAIL A

**\*\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET**  
Trusscare requires extreme care in the handling, shipping, installing and bracing. Refer to and follow the instructions and drawings in the Trusscare Building Component Safety Information Manual (BSCSIM) for these functions. Installers shall provide temporary bracing per BCSIM. Under no circumstances shall the BCSIM be altered. Trusscare shall have properly attached structural panels and bottom chord shall have a properly attached rigid bracing. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSIM.

**IMPORTANT:** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW Building Components has designed this truss to be responsible for any deviation from this design, any failure to build the truss in conformance with TPI. ITWBCG connector plates are made to 2010/1616A (W/H/S/R) ASTM A653 grade 30/40/60 (K/K/H/S) galv-steel. Apply plates to each face of truss, positioned as shown above and on joint details. This drawing and cover page indicates acceptance and professional engineering responsibility solely for the design and construction of this truss. The responsibility of the Building Designer per ANSI/TPI Section 2.1.1.1 is not included in this design. ITW-BCG: [www.itwbcg.com](http://www.itwbcg.com); TPI: [www.tpiinc.com](http://www.tpiinc.com); WCA: [www.wcaabuilding.com](http://www.wcaabuilding.com); ICC: [www.iccinc.org](http://www.iccinc.org)



**TWI**  
Building Components Group Inc.

Earth City, MO 63045

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|------|-----------|
| REF  | PIGGYBACK |
| DATE | 03/15/10  |
| DRWG | PB1200310 |

| SPACING | 24.0" |
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