

DATE 08/01/2007

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000026077

APPLICANT CHARLOTTE DENNARD PHONE 755-4901

ADDRESS 237 SW GARY LIBERTY LOOP LAKE CITY FL 32055

OWNER EDWIN & CHARLOTTE DENNARD PHONE 755-4901

ADDRESS 237 SW GARY LIBERTY LOOP LAKE CITY FL 32055

CONTRACTOR OWNER BUILDER PHONE \_\_\_\_\_

LOCATION OF PROPERTY 41S, TR ON CR 131, TL ON GARY LIBERTY LOOP, HOUSE ON RIGHT

TYPE DEVELOPMENT ADD. TO SFD ESTIMATED COST OF CONSTRUCTION 72100.00

HEATED FLOOR AREA 1442.00 TOTAL AREA 2235.00 HEIGHT \_\_\_\_\_ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB

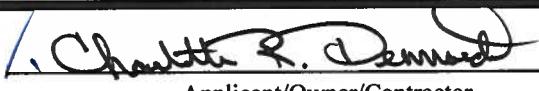
LAND USE & ZONING A-3 MAX. HEIGHT 18

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

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 32-4S-17-08926-001 SUBDIVISION \_\_\_\_\_

LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES 28.00

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

EXISTING 07-573-M BK JH N \_\_\_\_\_

Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 730

## FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

Framing \_\_\_\_\_ Rough-in plumbing above slab and below wood floor \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

Electrical rough-in \_\_\_\_\_ Heat & Air Duct \_\_\_\_\_ Peri. beam (Lintel) \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

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

M/H tie downs, blocking, electricity and plumbing \_\_\_\_\_ Pool \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

Reconnection \_\_\_\_\_ Pump pole \_\_\_\_\_ Utility Pole \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

M/H Pole \_\_\_\_\_ Travel Trailer \_\_\_\_\_ Re-roof \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

BUILDING PERMIT FEE \$ 365.00 CERTIFICATION FEE \$ 11.18 SURCHARGE FEE \$ 11.18

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 462.36

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."

### This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

# Columbia County Building Permit Application

CK# 730

For Office Use Only Application # 0707.35 Date Received 7/12/07 By GF Permit # 26077  
 Application Approved by - Zoning Official BLK Date 26.07.07 Plans Examiner OK JTH Date 8-1-07  
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments \_\_\_\_\_  
☐ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit Edwin Denuard Fax 755-2864

Address 2373W Gary Liberty Loop Phone 755-4901/625-5772

Owners Name Edwin + Charlotte Denuard Phone Same

911 Address 2373W Gary Liberty Loop, L.C.

Contractors Name N/A Phone N/A

Address \_\_\_\_\_

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address David J. Royal 381NW Fembrook Loop L.C. FL 32055

Mortgage Lenders Name & Address N

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

Property ID Number 32-45-17-08926-001 Estimated Cost of Construction 150,000.00

Subdivision Name N/A Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions 131 South 4 Miles To Gary Liberty Loop ON Left Green home ON Right in tall Pine Trees

Type of Construction Concrete to frame Add 105FD Number of Existing Dwellings on Property 3

Total Acreage 28 Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Driv

Actual Distance of Structure from Property Lines - Front 254 Side 101 Side 203 Rear 291

Total Building Height 18' 3" Number of Stories 1 Heated Floor Area 1442 Roof Pitch 5  
 TOTAL 2235

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.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA  
 COUNTY OF COLUMBIA



Sworn to (or affirmed) and subscribed before me

this 28<sup>th</sup> day of June 2007.

Personally known X or Produced Identification \_\_\_\_\_

Contractor Signature \_\_\_\_\_  
 Contractors License Number \_\_\_\_\_  
 Competency Card Number \_\_\_\_\_  
 NOTARY STAMP/SEAL

Janet Hostetler  
 Notary Signature





0707-35

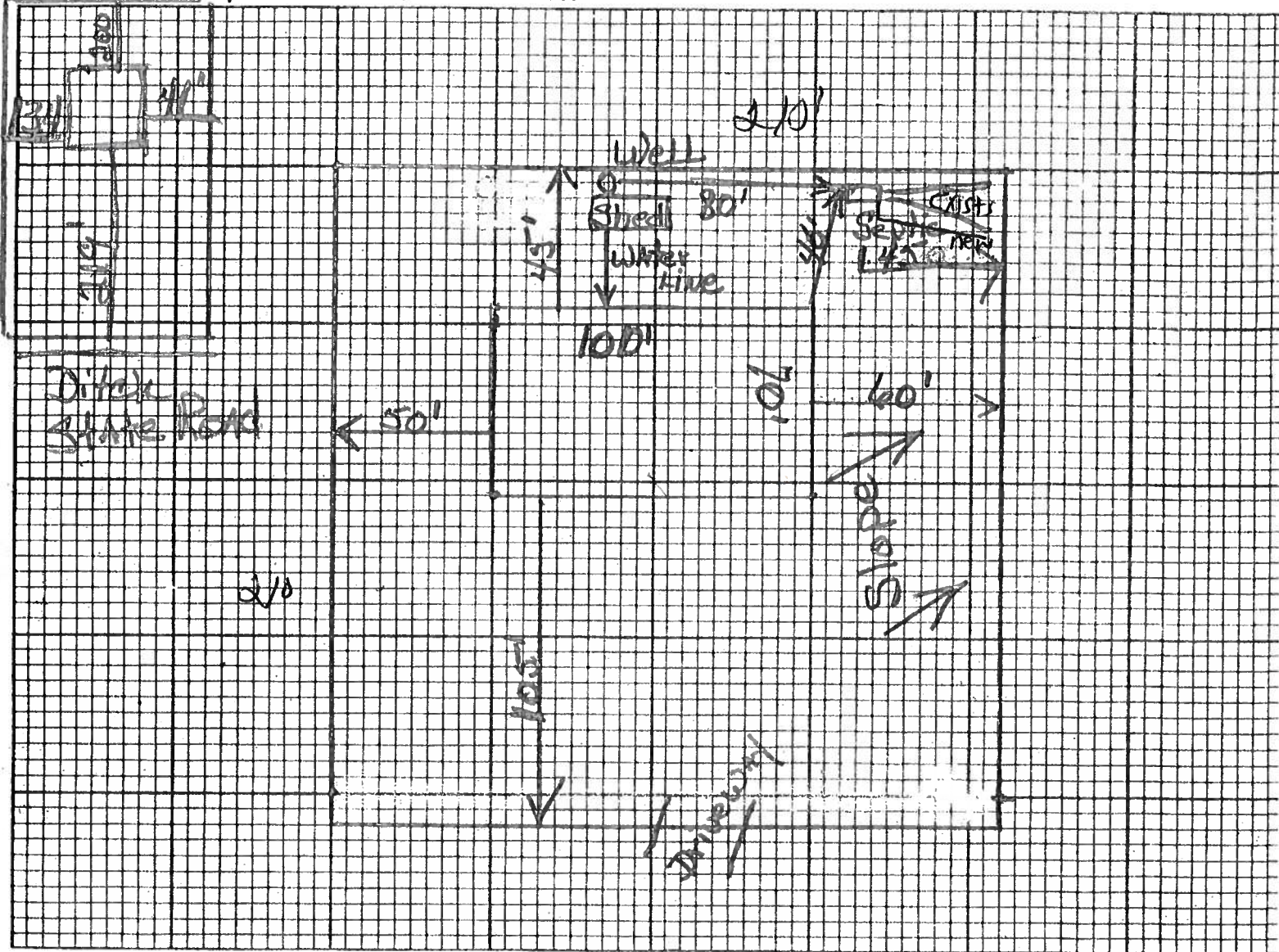
STATE OF FLORIDA  
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-0573M

PART II - SITE PLAN

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



Notes:

Site Plan submitted by: (Signature)

Signature

7-16-07  
Title

Plan Approved X

Not Approved

Date Owner

By Salbi Ford ESII

**Columbia CHD**

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

NOTICE OF COMMENCEMENT FORM  
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY  
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION

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.

IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number ~~888888~~ 32-45-17-08926-00 Permit Number \_\_\_\_\_

1. Description of property: (legal description of the property and street address or 911 address) 17-45-32  
A part of the SE 1/4 of SW 1/4, Run E 158.77 Ft to E R/W of CR 131 for PDR  
Run S 23 Dec W Along R/W 274.27 Ft S 66 Dec

2. General description of improvement: New Bedroom, Family Room, Bath Room

3. Owner Name & Address 237 SW Gary Liberty Loop Lake City FL 32025  
Ed + Charlotte DENWARD Interest in Property owner

4. Name & Address of Fee Simple Owner (if other than owner): owner/builder

5. Contractor Name \_\_\_\_\_ Phone Number \_\_\_\_\_

Address \_\_\_\_\_

6. Surety Holders Name N/A Phone Number \_\_\_\_\_

Address \_\_\_\_\_

Amount of Bond \_\_\_\_\_

7. Lender Name NONE Inst: 200712015588 Date: 7/13/2007 Time: 10:49 AM  
DC, P. DeWitt Cason Columbia County Page 1 of 1

Address \_\_\_\_\_

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name \_\_\_\_\_ Phone Number \_\_\_\_\_

Address \_\_\_\_\_

9. In addition to himself/herself the owner designates \_\_\_\_\_ of

\_\_\_\_\_ to receive a copy of the Lien Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee \_\_\_\_\_

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) \_\_\_\_\_

THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND NO ONE ELSE MAY BE PERMITTED TO SIGN IN HIS/HER STEAD.

Ed Denward 6-28-07  
Signature of Owner

Sworn to (or affirmed) and subscribed before day of June 28, 2007.

Janet Hostetler NOTARY STAMP/SEAL  
Signature of Notary



HFD/lss  
873.02-01-269  
5/17/01

BK 0927 PG 0409

OFFICIAL RECORDS  
This instrument prepared by  
Herbert F. Darby  
Darby, Peele, Bowdoin, Payne & Kennon  
Attorneys at Law  
Post Office Drawer 1707  
Lake City, Florida 32056-1707

Documentary Stamp  
Intangible Tax  
P. DelVitt Cason  
Clerk of Court  
By McK D.G.

\$ 700.00

WARRANTY DEED

THIS WARRANTY DEED made this 18<sup>th</sup> day of May, 2001, by EVERETT W. ROGERS, a married person not residing on the property, whose mailing address is Route 3, Box 475, Lake City, Florida 32025, hereinafter called the Grantor, to JAMES EDWIN DENNARD, whose social security number is 265-94-9918, and whose post office address is Post Office Box 3271, Lake City, Florida 32056-3271, hereinafter called the Grantee:

WITNESSETH:

That the Grantor, for and in consideration of the sum of TEN AND NO/100 (\$10.00) DOLLARS and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the Grantee, all that certain land situate in Columbia County, Florida, viz:

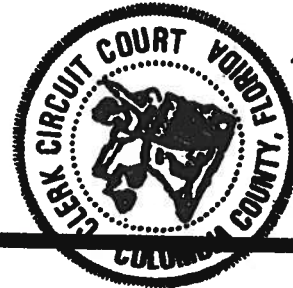
PARCEL ONE

TOWNSHIP 4 SOUTH, RANGE 17 EAST

Section 32: That portion of the Southwest 1/4 of the Southwest 1/4 as lies West of County Road Number 131 and Northeast of Interstate Highway Number 75. Containing 7.51 acres, more or less.

FILED AND RECORDED IN PUBLIC  
RECORDS OF COLUMBIA COUNTY, F

01 MAY 23 AM 11:52





**PARCEL TWO**

OFFICIAL RECORDS

**TOWNSHIP 4 SOUTH, RANGE 17 EAST**

**Section 32:** A part of the Southeast 1/4 of the Southwest 1/4, being more particularly described as follows: Commence at the Northwest corner of said Southeast 1/4 of the Southwest 1/4 and run thence S 89°45'00" E, along the North line of said Southeast 1/4 of Southwest 1/4 158.77 feet to the Easterly right-of-way line of County Road No. 131, said point being the POINT OF BEGINNING; thence S 23°09'04" W, along the Easterly right-of-way line of said County Road No. 131, a distance of 235.00 feet to the point of curvature of a curve to the left, having a radius of 25.00 feet, a central angle of 90°00'00", a tangent length of 25.00 feet, a chord bearing of S 21°50'56" E, and a chord length of 35.36 feet; thence along the arc of said curve, an arc length of 39.27 feet to the point of tangency of said curve; thence S 66°50'56" E, a distance of 291.53 feet to the point of curvature of a curve to the left, having a radius of 300.00 feet, a central angle of 23°12'48", a tangent length of 61.62 feet, a chord bearing of S 78°27'20" E, and a chord length of 120.71 feet; thence along the arc of said curve, an arc length of 121.54 feet to the point of tangency of said curve; thence N 89°56'16" E, a distance of 254.77 feet; thence N 00°03'44" W, a distance of 384.84 feet to said North line of SE 1/4 of SW 1/4; thence N 89°44'23" W, along said North line a distance of 561.46 feet to the POINT OF BEGINNING. Containing 5.01 acres, more or less.

Parcel Number: 32-4S-17-08937-000

This deed is given to and accepted by Grantee subject to the following terms and conditions:

1. All easements and reservations of record.
2. All zoning laws, rules, and regulations relating to and imposed upon the use of the property.
3. The property shall be used solely for residential use.

4. No mobile or manufactured house shall be permitted to be placed on the property.
5. Any house constructed upon the property shall have a minimum of 1,500 square feet of living space.
6. No nuisance shall be permitted to exist or operate on the property so as to be detrimental to any other property in its vicinity, or to its occupants.
7. No cattle, swine, or poultry of any kind shall be permitted to be kept on the property.
8. Pets of the customary household variety, such as cats, dogs, pet birds and fish, together with no more than two domestic horses, may be kept on the property, but only if such pets and horses do not cause a disturbance or annoyance on the property.
9. The restrictions provided for herein shall be covenants running with the title to the property herein described.

Grantor, his heirs, successors and assigns, with the consent of the Grantee, his heirs, successors, and assigns, shall have the right to amend, modify or terminate any or all of the herein imposed restrictions by filing in the public records an agreement specifying such amendment, modification, or termination.

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, 2000.

OFFICIAL RECORDS

IN WITNESS WHEREOF, the said Grantor has signed and sealed these  
presents the day and year first above written.

Signed, sealed and delivered  
in the presence of:

*Herbert F. Darby*  
Witness  
Herbert F. Darby

(Print/type name)

*Everett W. Rogers* (SEAL)  
EVERETT W. ROGERS

*Loretta S. Steinmann*  
Witness  
Loretta S. Steinmann

(Print/type name)

STATE OF FLORIDA

COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 18<sup>th</sup> day of May,  
2001, by EVERETT W. ROGERS, who is personally known to me.

*Loretta S. Steinmann*  
Notary Public, State of Florida  
Loretta S. Steinmann  
(Print/type name)

(NOTARIAL  
SEAL)

My Commission Expires:

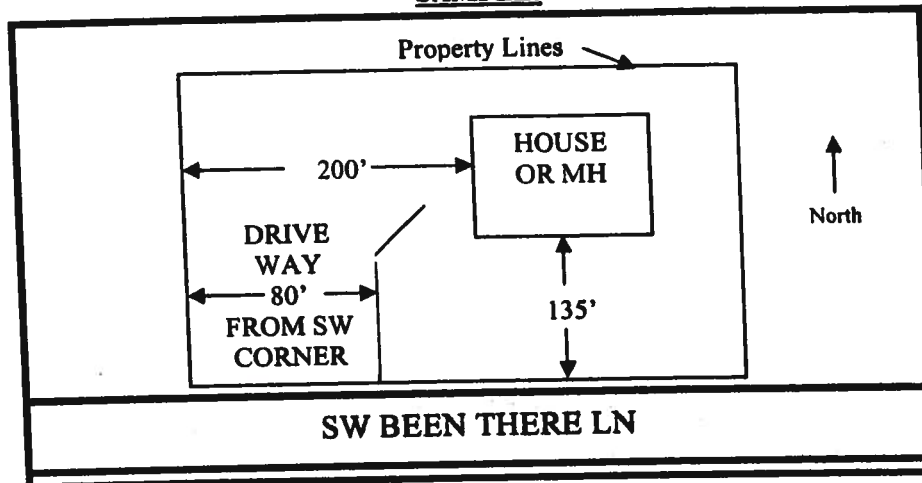


Loretta S. Steinmann  
MY COMMISSION # CC667198 EXPIRES  
October 8, 2001  
BONDED THRU TROY FAIN INSURANCE, INC.

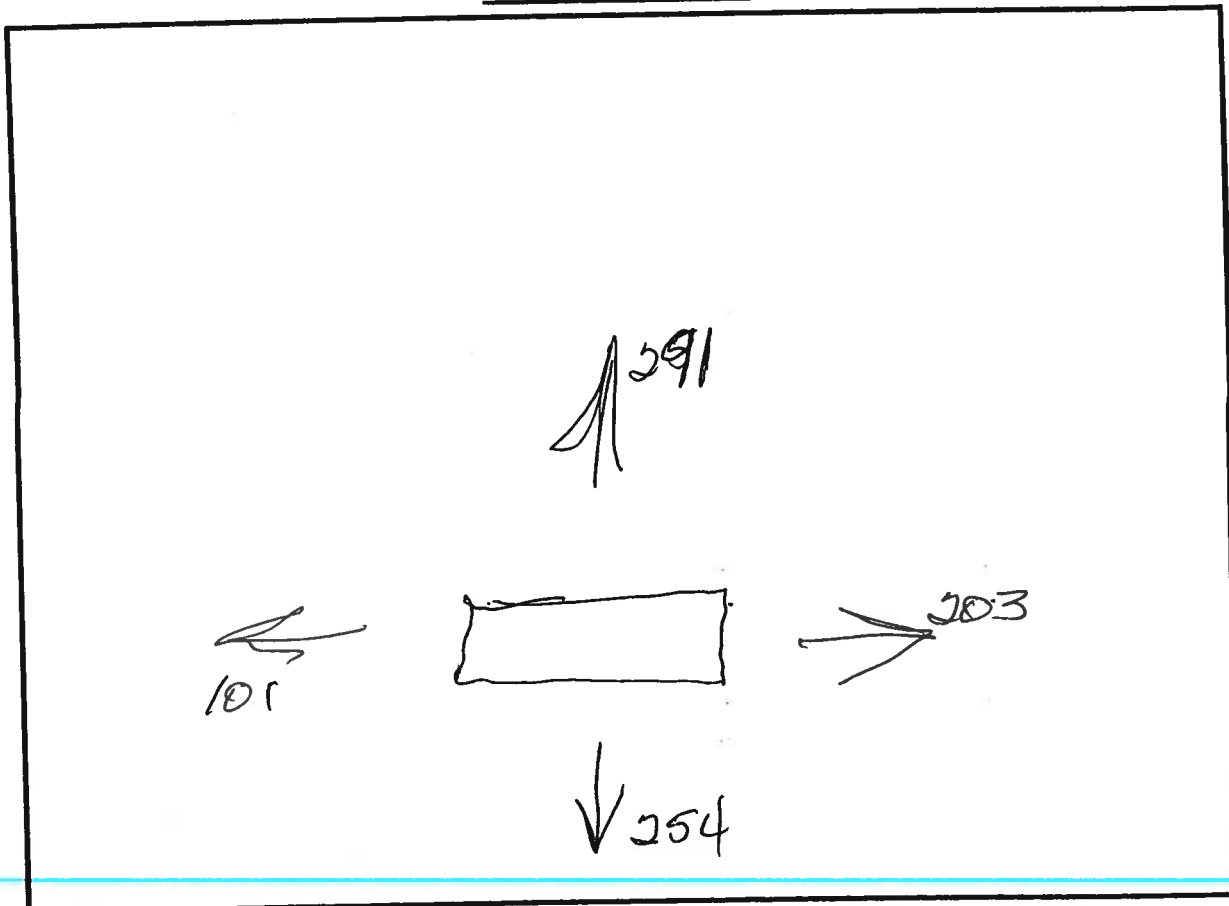


1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM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

**SAMPLE:**



**SITE PLAN BOX:**



## NOTORIZED DISCLOSURE STATEMENT

### FOR OWNER/BUILDER WHEN ACTING AS THEIR OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

#### TYPE OF CONSTRUCTION

- ☒ Single Family Dwelling  
☐ Farm Outbuilding

- ☐ Two-Family Residence  
☐ Other \_\_\_\_\_

#### NEW CONSTRUCTION OR IMPROVEMENT

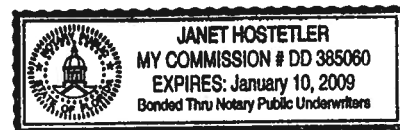
- ☐ New Construction

- ☒ Addition, Alteration, Modification or other Improvement

I Edwin DeWard, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number \_\_\_\_\_

[Signature] 6-28-07  
Owner Builder Signature Date

The above signer is personally known to me or produced identification \_\_\_\_\_



Notary Signature Janet Hostetler Date 6/28/07 (Stamp / Seal)

#### FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date \_\_\_\_\_ Building Official/Representative \_\_\_\_\_

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Community Affairs Residential Whole Building Performance Method A

<b>Project Name:</b> ED DENNARD RESIDENCE <b>Address:</b> <b>City, State:</b> , <b>Owner:</b> <b>Climate Zone:</b> North	<b>Builder:</b> <b>Permitting Office:</b> COLUMBIA <b>Permit Number:</b> 26077 <b>Jurisdiction Number:</b> 221000
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<ol style="list-style-type: none"> <li>1. New construction or existing <span style="float: right;">New</span> <input type="checkbox"/></li> <li>2. Single family or multi-family <span style="float: right;">Single family</span> <input type="checkbox"/></li> <li>3. Number of units, if multi-family <span style="float: right;">1</span> <input type="checkbox"/></li> <li>4. Number of Bedrooms <span style="float: right;">3</span> <input type="checkbox"/></li> <li>5. Is this a worst case? <span style="float: right;">No</span> <input type="checkbox"/></li> <li>6. Conditioned floor area (ft²) <span style="float: right;">3192 ft²</span> <input type="checkbox"/></li> <li>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. U-factor:</td> <td style="width: 30%;">Description</td> <td style="width: 40%;">Area</td> </tr> <tr> <td>(or Single or Double DEFAULT)</td> <td>7a. (Dble Default)</td> <td>356.0 ft²</td> </tr> <tr> <td>b. SHGC:</td> <td></td> <td></td> </tr> <tr> <td>(or Clear or Tint DEFAULT)</td> <td>7b. (Clear)</td> <td>356.0 ft²</td> </tr> </table> </li> <li>8. Floor types           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Slab-On-Grade Edge Insulation</td> <td style="width: 30%;">R=1.0, 327.0(p) ft</td> <td style="width: 40%;">ft</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> </table> </li> <li>9. Wall types           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Concrete, Int Insul, Exterior</td> <td style="width: 30%;">R=11.0, 2670.0 ft²</td> <td style="width: 40%;">ft²</td> </tr> <tr> <td>b. Concrete, Int Insul, Exterior</td> <td>R=11.0, 840.0 ft²</td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>d. N/A</td> <td></td> <td></td> </tr> <tr> <td>e. N/A</td> <td></td> <td></td> </tr> </table> </li> <li>10. Ceiling types           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Under Attic</td> <td style="width: 30%;">R=30.0, 3192.0 ft²</td> <td style="width: 40%;">ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> </table> </li> <li>11. Ducts           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Sup: Unc. Ret: Con. AH: Interior</td> <td style="width: 30%;">Sup. R=6.0, 65.0 ft</td> <td style="width: 40%;">ft</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> </table> </li> </ol>	a. U-factor:	Description	Area	(or Single or Double DEFAULT)	7a. (Dble Default)	356.0 ft²	b. SHGC:			(or Clear or Tint DEFAULT)	7b. (Clear)	356.0 ft²	a. Slab-On-Grade Edge Insulation	R=1.0, 327.0(p) ft	ft	b. N/A			c. N/A			a. Concrete, Int Insul, Exterior	R=11.0, 2670.0 ft²	ft²	b. Concrete, Int Insul, Exterior	R=11.0, 840.0 ft²		c. N/A			d. N/A			e. N/A			a. Under Attic	R=30.0, 3192.0 ft²	ft²	b. N/A			c. N/A			a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 65.0 ft	ft	b. N/A			<ol style="list-style-type: none"> <li>12. Cooling systems           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Central Unit</td> <td style="width: 30%;">Cap: 50.0 kBtu/hr</td> <td style="width: 40%;">SEER: 14.00</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> </table> </li> <li>13. Heating systems           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Electric Heat Pump</td> <td style="width: 30%;">Cap: 50.0 kBtu/hr</td> <td style="width: 40%;">HSPF: 8.70</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> </table> </li> <li>14. Hot water systems           <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Electric Resistance</td> <td style="width: 30%;">Cap: 50.0 gallons</td> <td style="width: 40%;">EF: 0.95</td> </tr> <tr> <td>b. Electric Resistance</td> <td>Cap: 30.0 gallons</td> <td>EF: 0.95</td> </tr> <tr> <td>c. Conservation credits</td> <td></td> <td></td> </tr> <tr> <td colspan="3">(HR-Heat recovery, Solar DHP-Dedicated heat pump)</td> </tr> </table> </li> <li>15. HVAC credits <span style="float: right;">CF, <input type="checkbox"/></span> <p>(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p> </li> </ol>	a. Central Unit	Cap: 50.0 kBtu/hr	SEER: 14.00	b. N/A			c. N/A			a. Electric Heat Pump	Cap: 50.0 kBtu/hr	HSPF: 8.70	b. N/A			c. N/A			a. Electric Resistance	Cap: 50.0 gallons	EF: 0.95	b. Electric Resistance	Cap: 30.0 gallons	EF: 0.95	c. Conservation credits			(HR-Heat recovery, Solar DHP-Dedicated heat pump)		
a. U-factor:	Description	Area																																																																																
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Glass/Floor Area: 0.11

Total as-built points: 30427

Total base points: 44371

**PASS**

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

**PREPARED BY:** [Signature]

**DATE:** 6/20/07

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:** \_\_\_\_\_



<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Overhang Type/SC Omt Len Hgt Area X SPM X SOF = Points							
.18	3192.0	20.04	11514.2	Double, Clear	N	6.3	8.0	30.0	19.20	0.75	430.3
				Double, Clear	N	1.3	12.0	36.0	19.20	0.99	686.7
				Double, Clear	N	1.3	8.0	30.0	19.20	0.98	562.0
				Double, Clear	E	1.3	12.0	54.0	42.06	0.99	2258.0
				Double, Clear	E	1.3	6.0	6.0	42.06	0.93	235.4
				Double, Clear	S	9.0	8.0	30.0	35.87	0.50	540.9
				Double, Clear	N	12.0	8.0	15.0	19.20	0.65	188.4
				Double, Clear	N	1.3	8.0	45.0	19.20	0.98	843.0
				Double, Clear	N	1.3	6.0	6.0	19.20	0.95	109.6
				Double, Clear	W	1.3	8.0	30.0	38.52	0.97	1121.4
				Double, Clear	W	1.3	8.0	20.0	38.52	0.97	747.6
				Double, Clear	W	0.3	12.0	54.0	38.52	1.00	2077.6
				As-Built Total:				356.0		9801.0	
WALL TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Exterior	3510.0	1.70	5967.0	Concrete, Int Insul, Exterior		11.0		2670.0	0.40		1068.0
Adjacent	0.0	0.00	0.0	Concrete, Int Insul, Exterior		11.0		840.0	0.40		336.0
Base Total: 3510.0 5967.0				As-Built Total:				3510.0	1404.0		
DOOR TYPES Area X BSPM = Points				Type		Area X SPM = Points					
Exterior	60.0	4.10	246.0	Exterior Insulated				60.0	4.10		246.0
Adjacent	0.0	0.00	0.0								
Base Total: 60.0 246.0				As-Built Total:				60.0	246.0		
CEILING TYPES Area X BSPM = Points				Type		R-Value		Area X SPM X SCM = Points			
Under Attic	3192.0	1.73	5522.2	Under Attic		30.0		3192.0	1.73 X 1.00		5522.2
Base Total: 3192.0 5522.2				As-Built Total:				3192.0	5522.2		
FLOOR TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Slab	327.0(p)	-37.0	-12099.0	Slab-On-Grade Edge Insulation		1.0		327.0(p)	-39.87		-13036.4
Raised	0.0	0.00	0.0								
Base Total: -12099.0				As-Built Total:				327.0	-13036.4		



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
3192.0 10.21 32590.3				3192.0 10.21 32590.3			
Summer Base Points: 43740.7				Summer As-Built Points: 36527.0			
Total Summer X System = Cooling Points Multiplier Points				Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)			
43740.7 0.4266 18659.8				<small>(sys 1: Central Unit 50000 btuh ,SEER/EFF(14.0) Ducts:Unc(S),Con(R),Int(AH),R6.0(INS)</small> 36527 1.00 (1.08 x 1.147 x 0.91) 0.244 0.950 9545.0 <b>36527.0 1.00 1.128 0.244 0.950 9545.0</b>			

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BWPM = Points Floor Area											
				Type/SC	Overhang Omt Len Hgt		Area X WPM X WOF = Points				
.18	3192.0	12.74	7319.9	Double, Clear	N	6.3	8.0	30.0	24.58	1.02	748.7
				Double, Clear	N	1.3	12.0	36.0	24.58	1.00	884.6
				Double, Clear	N	1.3	8.0	30.0	24.58	1.00	737.7
				Double, Clear	E	1.3	12.0	54.0	18.79	1.01	1021.8
				Double, Clear	E	1.3	6.0	6.0	18.79	1.03	116.0
				Double, Clear	S	9.0	8.0	30.0	13.30	2.94	1170.9
				Double, Clear	N	12.0	8.0	15.0	24.58	1.02	377.0
				Double, Clear	N	1.3	8.0	45.0	24.58	1.00	1106.5
				Double, Clear	N	1.3	6.0	6.0	24.58	1.00	147.7
				Double, Clear	W	1.3	8.0	30.0	20.73	1.01	626.8
				Double, Clear	W	1.3	8.0	20.0	20.73	1.01	417.8
				Double, Clear	W	0.3	12.0	54.0	20.73	1.00	1119.8
				<b>As-Built Total:</b>		<b>356.0</b>			<b>8475.4</b>		
<b>WALL TYPES</b>											
Area X BWPM = Points				Type	R-Value	Area X WPM			= Points		
Exterior	3510.0	3.70	12987.0	Concrete, Int Insul, Exterior	11.0	2670.0	3.00			8010.0	
Adjacent	0.0	0.00	0.0	Concrete, Int Insul, Exterior	11.0	840.0	3.00			2520.0	
<b>Base Total:</b>				<b>3510.0</b>				<b>12987.0</b>			
				<b>As-Built Total:</b>		<b>3510.0</b>			<b>10530.0</b>		
<b>DOOR TYPES</b>											
Area X BWPM = Points				Type	Area X WPM			= Points			
Exterior	60.0	8.40	504.0	Exterior Insulated	60.0			8.40			504.0
Adjacent	0.0	0.00	0.0								
<b>Base Total:</b>				<b>60.0</b>				<b>504.0</b>			
				<b>As-Built Total:</b>		<b>60.0</b>			<b>504.0</b>		
<b>CEILING TYPES</b>											
Area X BWPM = Points				Type	R-Value	Area X WPM X WCM			= Points		
Under Attic	3192.0	2.05	6543.6	Under Attic	30.0	3192.0	2.05 X 1.00			6543.6	
<b>Base Total:</b>				<b>3192.0</b>				<b>6543.6</b>			
				<b>As-Built Total:</b>		<b>3192.0</b>			<b>6543.6</b>		
<b>FLOOR TYPES</b>											
Area X BWPM = Points				Type	R-Value	Area X WPM			= Points		
Slab	327.0(p)	8.9	2910.3	Slab-On-Grade Edge Insulation	1.0	327.0(p)	15.63			5112.1	
Raised	0.0	0.00	0.0								
<b>Base Total:</b>				<b>327.0</b>				<b>5112.1</b>			
				<b>As-Built Total:</b>		<b>327.0</b>			<b>5112.1</b>		

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BWPM = Points				Area X WPM = Points			
3192.0 -0.59 -1883.3				3192.0 -0.59 -1883.3			
Winter Base Points:		28381.5		Winter As-Built Points:		29281.8	
Total Winter X System = Heating Points Multiplier Points				Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)			
28381.5	0.6274	17806.6		(sys 1: Electric Heat Pump 50000 btuh ,EFF(8.7) Ducts:Unc(S),Con(R),Int(AH),R6.0 29281.8 1.000 (1.060 x 1.169 x 0.93) 0.392 1.000 13226.2 29281.8 1.00 1.152 0.392 1.000 13226.2			

**WATER HEATING & CODE COMPLIANCE STATUS****Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit Multiplier	= Total
3		2635.00	7905.0	50.0	0.95	3	0.63	2551.79	4784.6
				30.0	0.95	3	0.38	2551.79	2870.8
				As-Built Total:					7655.4

**CODE COMPLIANCE STATUS**

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
18660		17807		7905 44371	9545		13226		7655 30427

**PASS**



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq. ft. window area; .5 cfm/sq. ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.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 rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

**6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	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%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	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 SCORE\* = 88.9**

**The higher the score, the more efficient the home.**

., . . .

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 50.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 14.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	No	___	c. N/A	___
6. Conditioned floor area (ft <sup>2</sup> )	3192 ft <sup>2</sup>	___		___
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		___	13. Heating systems	
a. U-factor:	Description Area	___	a. Electric Heat Pump	Cap: 50.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 356.0 ft <sup>2</sup>	___		HSPF: 8.70
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 356.0 ft <sup>2</sup>	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=1.0, 327.0(p) ft	___	a. Electric Resistance	Cap: 50.0 gallons
b. N/A		___		EF: 0.95
c. N/A		___	b. Electric Resistance	Cap: 30.0 gallons
9. Wall types		___		EF: 0.95
a. Concrete, Int Insul, Exterior	R=11.0, 2670.0 ft <sup>2</sup>	___	c. Conservation credits	
b. Concrete, Int Insul, Exterior	R=11.0, 840.0 ft <sup>2</sup>	___	(HR-Heat recovery, Solar	
c. N/A		___	DHP-Dedicated heat pump)	
d. N/A		___	15. HVAC credits	CF, ___
e. N/A		___	(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		___	HF-Whole house fan,	
a. Under Attic	R=30.0, 3192.0 ft <sup>2</sup>	___	PT-Programmable Thermostat,	
b. N/A		___	MZ-C-Multizone cooling,	
c. N/A		___	MZ-H-Multizone heating)	
11. Ducts		___		
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 65.0 ft	___		
b. N/A		___		

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 score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar<sup>TM</sup> designation), your home may qualify for energy efficiency mortgage (EEM) 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 [www.fsec.ucf.edu](http://www.fsec.ucf.edu) 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.*

# BUILDING INPUT SUMMARY REPORT

<b>PROJECT</b>	<b>Title:</b>	ED DENNARD RESIDENCE		<b>Family Type:</b>	Single	<b>Address Type:</b>	Street Address
	<b>Owner:</b>	(blank)		<b>New/Existing:</b>	New	<b>Lot #:</b>	N/A
	<b># of Units:</b>	1		<b>Bedrooms:</b>	3	<b>Subdivision:</b>	N/A
	<b>Builder Name:</b>	(blank)		<b>Conditioned Area:</b>	3192	<b>Platbook:</b>	N/A
	<b>Climate:</b>	North		<b>Total Stories:</b>	1	<b>Street:</b>	(blank)
	<b>Permit Office:</b>	COLUMBIA		<b>Worst Case:</b>	No	<b>County:</b>	(blank)
	<b>Jurisdiction #:</b>	(blank)		<b>Rotate Angle:</b>	(blank)	<b>City, St, Zip:</b>	, ,
<b>FLOORS</b>	#	Floor Type	R-Val	Area/Perimeter	Units		
	1	Slab-On-Grade Edge Insulation	1.0	327.0(p) ft	1		
<b>CEILINGS</b>	#	Ceiling Type	R-Val	Area	Base Area	Units	
	1	Under Attic	30.0	3192.0 ft²	3192.0 ft²	1	
	Credit Multipliers: None						
<b>WALLS</b>	#	Wall Type	Location	R-Val	Area	Units	
	1	Concrete Block - Int Insul	Exterior	11.0	2670.0 ft²	1	
	2	Concrete Block - Int Insul	Exterior	11.0	840.0 ft²	1	
	Credit Multipliers: None						
<b>DUCTS</b>	#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length	
	1	Uncond.	Cond.	Interior	6.0	65.0 ft	
	Credit Multipliers: None						
<b>WATER</b>	#	System Type	EF	Cap.	Conservation Type	Con. EF	
	1	Electric Resistance	0.95	50.0	None	0.00	
	2	Electric Resistance	0.95	30.0	None	0.00	
<b>REFR.</b>	#	Use Default?	Annual Operating Cost	Electric Rate			
	1	Yes	N/A	N/A			

# Residential System Sizing Calculation

## Summary

Project Title:  
ED DENNARD PROJECT

Code Only  
Professional Version  
Climate: North

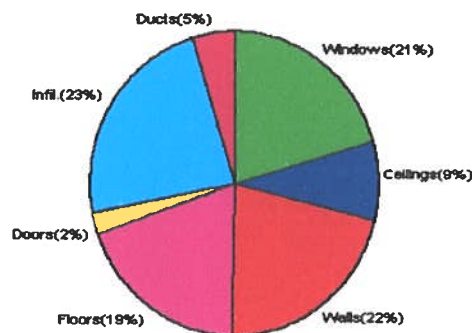
6/21/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
<b>Total heating load calculation</b>	<b>48789 Btuh</b>	<b>Total cooling load calculation</b>	<b>42383 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	102.5 50000	Sensible (SHR = 0.75)	120.7 37500
Heat Pump + Auxiliary(0.0kW)	102.5 50000	Latent	110.4 12500
		<b>Total (Electric Heat Pump)</b>	<b>118.0 50000</b>

## WINTER CALCULATIONS

Winter Heating Load (for 3192 sqft)

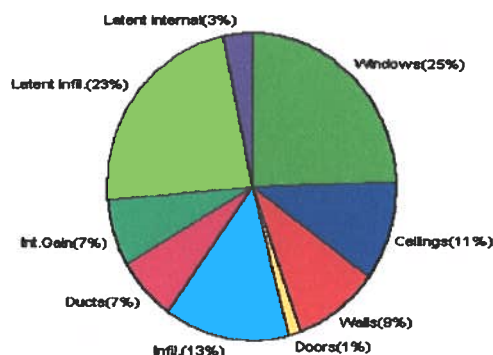
Load component		Load
Window total	356 sqft	10075 Btuh
Wall total	3510 sqft	10530 Btuh
Door total	60 sqft	1100 Btuh
Ceiling total	3192 sqft	4150 Btuh
Floor total	327 ft	9320 Btuh
Infiltration	263 cfm	11292 Btuh
<b>Subtotal</b>		<b>46466 Btuh</b>
Duct loss		2323 Btuh
<b>TOTAL HEAT LOSS</b>		<b>48789 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 3192 sqft)

Load component		Load
Window total	356 sqft	10424 Btuh
Wall total	3510 sqft	4001 Btuh
Door total	60 sqft	608 Btuh
Ceiling total	3192 sqft	4533 Btuh
Floor total		0 Btuh
Infiltration	287 cfm	5674 Btuh
Internal gain		3000 Btuh
<b>Subtotal(sensible)</b>		<b>28241 Btuh</b>
Duct gain		2824 Btuh
<b>Total sensible gain</b>		<b>31065 Btuh</b>
Latent gain(infiltration)		9938 Btuh
Latent gain(internal)		1380 Btuh
<b>Total latent gain</b>		<b>11318 Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>42383 Btuh</b>



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: \_\_\_\_\_

DATE: \_\_\_\_\_



# System Sizing Calculations - Winter

## Residential Load - Component Details

Project Title:  
ED DENNARD PROJECT

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

6/21/2007

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
2	2, Clear, Metal, DEF	N	36.0	28.3	1019 Btuh
3	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
4	2, Clear, Metal, DEF	E	54.0	28.3	1528 Btuh
5	2, Clear, Metal, DEF	E	6.0	28.3	170 Btuh
6	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
7	2, Clear, Metal, DEF	S	15.0	28.3	424 Btuh
8	2, Clear, Metal, DEF	S	45.0	28.3	1274 Btuh
9	2, Clear, Metal, DEF	S	6.0	28.3	170 Btuh
10	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
11	2, Clear, Metal, DEF	W	20.0	28.3	566 Btuh
12	2, Clear, Metal, DEF	W	54.0	28.3	1528 Btuh
Window Total			356		10075 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete - Exterior	11.0	2670	3.0	8010 Btuh
2	Concrete - Exterior	11.0	840	3.0	2520 Btuh
Wall Total			3510		10530 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		60	18.3	1100 Btuh
Door Total			60		1100Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	3192	1.3	4150 Btuh
Ceiling Total			3192		4150Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	1	327.0 ft(p)	28.5	9320 Btuh
Floor Total			327		9320 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	31920(sqft)	213	9147 Btuh
	Mechanical			50	2145 Btuh
Infiltration Total				263	11292 Btuh

Totals for Heating	Subtotal	46466 Btuh
	Duct Loss(using duct multiplier of 0.05)	2323 Btuh
	Total Btuh Loss	48789 Btuh

# **Manual J Winter Calculations**

## **Residential Load - Component Details (continued)**

Project Title:  
ED DENNARD PROJECT

Code Only  
Professional Version  
Climate: North

6/21/2007

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

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

# System Sizing Calculations - Summer

## Residential Load - Component Details

Project Title:  
ED DENNARD PROJECT

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

6/21/2007

Window	Type	Len	Hgt	Window Area(sqft)			HTM		Load	
	Panes/SHGC/U/InSh/ExSh Ormt			Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, B, N	N	6.33	8	30.0	0.0	30.0	15	15	450 Btuh
2	2, Clear, DEF, B, N	N	0.33	12	36.0	0.0	36.0	15	15	540 Btuh
3	2, Clear, DEF, B, N	N	1.33	8	30.0	0.0	30.0	15	15	450 Btuh
4	2, Clear, DEF, B, N	E	1.33	12	54.0	0.0	54.0	15	46	2484 Btuh
5	2, Clear, DEF, B, N	E	1.33	8	6.0	0.0	6.0	15	46	276 Btuh
6	2, Clear, DEF, B, N	S	9	8	30.0	30.0	0.0	15	24	450 Btuh
7	2, Clear, DEF, B, N	S	12	8	15.0	15.0	0.0	15	24	225 Btuh
8	2, Clear, DEF, B, N	S	1.33	8	45.0	45.0	0.0	15	24	675 Btuh
9	2, Clear, DEF, B, N	S	1.33	6	6.0	6.0	0.0	15	24	90 Btuh
10	2, Clear, DEF, B, N	W	1.33	8	30.0	0.0	30.0	15	46	1380 Btuh
11	2, Clear, DEF, B, N	W	1.33	8	20.0	0.0	20.0	15	46	920 Btuh
12	2, Clear, DEF, B, N	W	1.33	12	54.0	0.0	54.0	15	46	2484 Btuh
Window Total					356					10424 Btuh
Walls	Type	R-Value			Area			HTM		Load
1	Concrete - Exterior	11.0			2670.0			1.1		3044 Btuh
2	Concrete - Exterior	11.0			840.0			1.1		958 Btuh
Wall Total					3510.0					4001 Btuh
Doors	Type				Area			HTM		Load
1	Insulated - Exter				60.0			10.1		608 Btuh
Door Total					60.0					608 Btuh
Ceilings	Type/Color	R-Value			Area			HTM		Load
1	Under Attic/Dark	30.0			3192.0			1.4		4533 Btuh
Ceiling Total					3192.0					4533 Btuh
Floors	Type	R-Value			Size			HTM		Load
1	Slab-On-Grade Edge Insulation	1.0			327.0 ft(p)			0.0		0 Btuh
Floor Total					327.0					0 Btuh
Infiltration	Type	ACH			Volume			CFM=		Load
	Natural	0.35			31920			186.6		3694 Btuh
	Mechanical							100		1980 Btuh
	Infiltration Total							287		5674 Btuh
Internal gain	Occupants			Btuh/occupant			Appliance		Load	
	6			X 300 +			1200		3000 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Project Title:  
ED DENNARD PROJECT

Code Only  
Professional Version  
Climate: North

6/21/2007

<b>Totals for Cooling</b>	<b>Subtotal</b>	<b>28241 Btuh</b>
	<b>Duct gain(using duct multiplier of 0.10)</b>	<b>2824 Btuh</b>
	<b>Total sensible gain</b>	<b>31065 Btuh</b>
	<b>Latent infiltration gain (for 51 gr. humidity difference)</b>	<b>9938 Btuh</b>
	<b>Latent occupant gain (6 people @ 230 Btuh per person)</b>	<b>1380 Btuh</b>
	<b>Latent other gain</b>	<b>0 Btuh</b>
	<b>TOTAL GAIN</b>	<b>42383 Btuh</b>

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)  
(U - Window U-Factor or 'DEF' for default)  
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(Ornt - compass orientation)

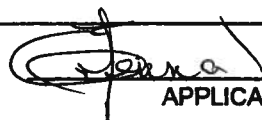


# PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ [www.floridabuilding.org](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING	MASONITE	EXT DOORS - ALL	FL 4940
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
<b>2. WINDOWS</b>	ALENCO	WINDOW - ALUMINUM	FL 7673
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
<b>4. ROOFING PRODUCTS</b>	EIK	30 YR ARCH.	FL 728-R1
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
<b>5. STRUCT COMPONENTS</b>			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
<b>6. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
A.			

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

  
APPLICANT SIGNATURE

7-12-07  
DATE

# COLUMBIA COUNTY BUILDING DEPARTMENT

Revised 10-01-05

## RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE  
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE \_\_\_\_\_ 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE \_\_\_\_\_ 110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

**APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**

**GENERAL REQUIREMENTS:** Two (2) complete sets of plans containing the following:

Applicant Plans Examiner

☒

☐

All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.

☒

☐

Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.

☒

☐

Site Plan including:

- a) Dimensions of lot
- b) Dimensions of building set backs
- c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements.

☒

☐

d) Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required  
Plans or specifications must state compliance with FBC Section 1609.

The following information must be shown as per section 1603.1.4 FBC

- a. Basic wind speed (3-second gust), miles per hour (km/hr).
- b. Wind importance factor,  $I_w$ , and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7.
- c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated.
- d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient.
- e. Components and Cladding. The design wind pressures in terms of psf ( $kN/m^2$ ) to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional.

Elevations including:

☒

☐

a) All sides

☒

☐

b) Roof pitch

☒

☐

c) Overhang dimensions and detail with attic ventilation

- |                                     |       |                          |
|-------------------------------------|-------|--------------------------|
| <input checked="" type="checkbox"/> |       | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | 11/1A | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |       | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |       | <input type="checkbox"/> |

1

- [illegible]



- |                                     |  |                          |
|-------------------------------------|--|--------------------------|
| <input checked="" type="checkbox"/> |  | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |  | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |  | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |  | <input type="checkbox"/> |

## 1

- ☒ ☐
- ☒ ☐

10. *Chlorophyll a* is the most abundant photosynthetic pigment in all photosynthetic organisms.

- 1

- a. Attic space
- b. Exterior wall cavity
- c. Crawl space (if applicable)

**b) Wood frame wall**

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiteicide or alternative method)
11. Slab on grade
  - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
  - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
  - a. Attic space
  - b. Exterior wall cavity
  - c. Crawl space (if applicable)

**c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)**

**Floor Framing System:**

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

**Plumbing Fixture layout**

**Electrical layout including:**

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment
- g) Arc Fault Circuits (AFCI) in bedrooms
- h) Exhaust fans in bathroom

**HVAC information**

- a) Energy Calculations (dimensions shall match plans)
- b) Manual J sizing equipment or equivalent computation
- c) Gas System Type (LP or Natural) Location and BTU demand of equipment

**Disclosure Statement for Owner Builders**

**\*\*\*Notice Of Commencement Required Before Any Inspections Will Be Done Private Potable Water**



- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

## **THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS**

- ✓ 1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.
2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)
4. **City Approval:** If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**  
A development permit will also be required. Development permit cost is \$50.00
6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**
7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

**ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS – PLEASE DO NOT ASK**



# Notice of Treatment

ADPTD 12668  
no Guarantee

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 SE BAY AVE

City LAKE CITY

Phone 752-1703

Site Location: Subdivision

Edwin Darnall (SELF)

Lot # \_\_\_\_\_ Block# \_\_\_\_\_

Permit # 26077

Address 237 Se Gary Liberty Ln

## Product used

## Active Ingredient

## % Concentration

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☐ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Front porch

126

1

25 gal

5

5

5

5

5

5

5

5

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

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

8-21-07

Date

1:00

Time

F299

Print Technician's Name

Remarks: \_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©

## Notice of Treatment *No Guarantee*

**Applicator:** Florida Pest Control & Chemical Co. (www.flapest.com)

**Address:** 536 SW BAYA AVE

**City:** LAKE CITY **Phone:** 752-1703

**Site Location:** Subdivision (Self)

**Lot #** \_\_\_\_\_ **Block #** \_\_\_\_\_ **Permit #** 26077

**Address** 237 SW Gary Liberty Ln

<u>Product used</u>	<u>Active Ingredient</u>	<u>% Concentration</u>
---------------------	--------------------------	------------------------

<input checked="" type="checkbox"/> Premise	Imidacloprid	0.1%
---	--------------	------

<input type="checkbox"/> Termidor	Fipronil	0.12%
-----------------------------------	----------	-------

<input type="checkbox"/> Bora-Care	Disodium Octaborate Tetrahydrate	23.0%
------------------------------------	----------------------------------	-------

**Type treatment:** ☒ Soil ☐ Wood

<u>Area Treated</u>	<u>Square feet</u>	<u>Linear feet</u>	<u>Gallons Applied</u>
<u>Addition</u>	<u>1170</u>	<u></u>	<u>11.5906</u>
<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>

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

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

<u>8-24-07</u>	<u>8:15</u>	<u>F259</u>
Date	Time	Print Technician's Name

**Remarks:** \_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05





## Notice of Treatment

**Applicator:** Florida Pest Control & Chemical Co. (www.flapest.com)

**Address:** 53650 Baya Ave

**City:** Lake City **Phone:** 752-1703

**Site Location:** Subdivision \_\_\_\_\_

**Lot #** \_\_\_\_\_ **Block #** \_\_\_\_\_ **Permit #** 26077

**Address** 237 SW Army Liberty Loop L.C.

**Product used**

**Active Ingredient**

**% Concentration**

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora Care Disodium Octaborate Tetrahydrate 23.0%

**Type treatment:**

☒ Soil

☐ Wood

**Area Treated**

**Square feet**

**Linear feet**

**Gallons Applied**

Add on to

1174

165

11.5 gals

name

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

8-15-07

**Date**

8:30

**Time**

F299

**Print Technician's Name**

**Remarks:** \_\_\_\_\_

**Applicator - White**

**Permit File - Canary**

**Permit Holder - Pink**

10/05





# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID: IT7Y8228Z0305134743

Truss Fabricator: Anderson Truss Company  
Job Identification: 7-146--Fill in later DENNARD -- , \*\*  
Truss Count: 49  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Versions 7.36, 7.25.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

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

Details: BRCLBSUB-A11015EE-GBLLETIN-A11030EE-PIGBACKA-PIGBACKB-

Seal Date: 06/05/2007

-Truss Design Engineer-

Arthur R. Fisher

Florida License Number: 59687

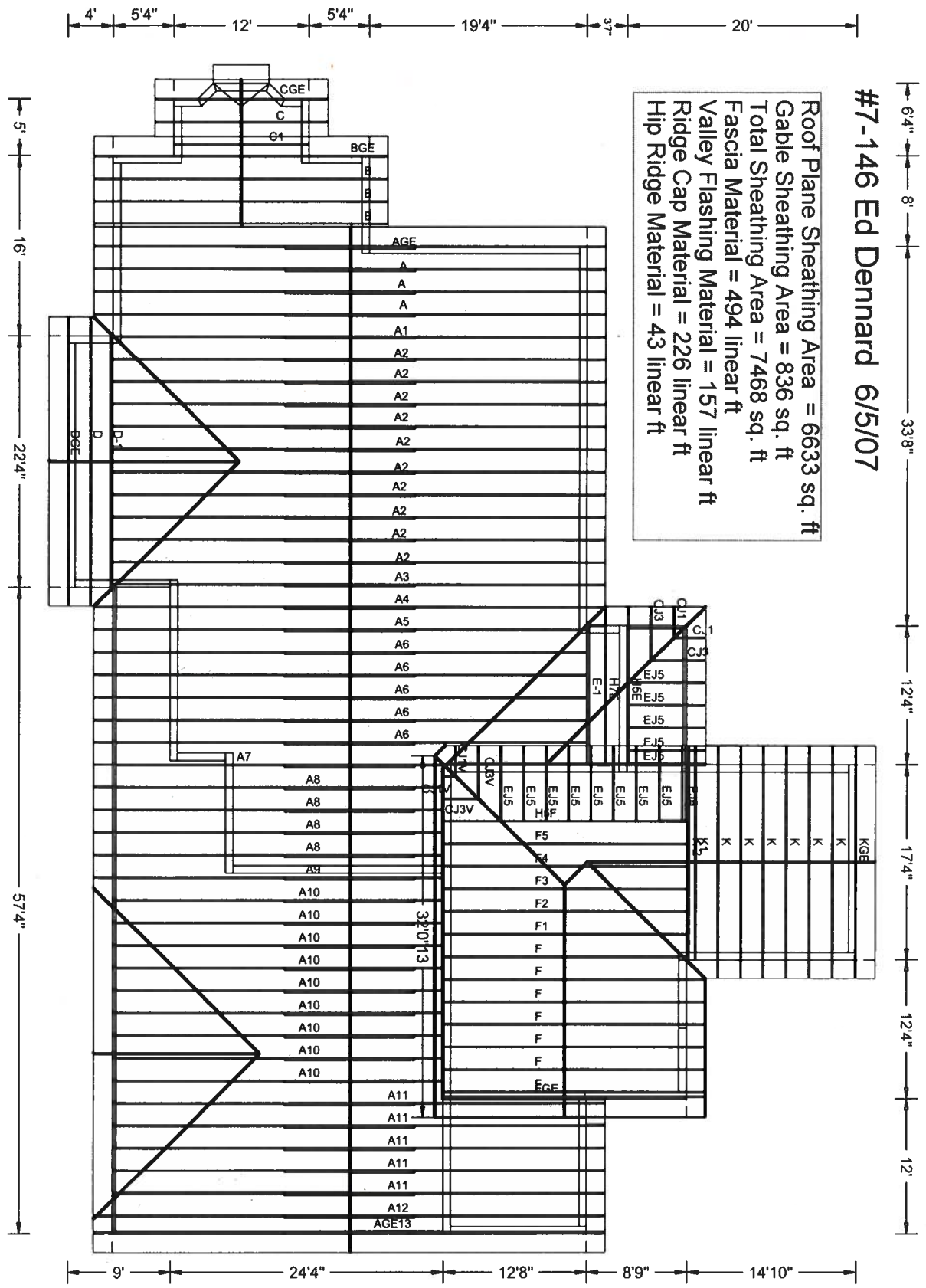
1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	37892--A		07156070	06/05/07
2	37893--A1		07156071	06/05/07
3	37894--A2		07156076	06/05/07
4	37895--A3		07156077	06/05/07
5	37896--A4		07156078	06/05/07
6	37897--A5		07156079	06/05/07
7	37898--A6		07156080	06/05/07
8	37899--A7		07156081	06/05/07
9	37900--A8		07156082	06/05/07
10	37901--A9		07156083	06/05/07
11	37902--A10		07156084	06/05/07
12	37903--A11		07156085	06/05/07
13	37904--A12		07156086	06/05/07
14	37905--AGE		07156103	06/05/07
15	37906--AGE13		07156119	06/05/07
16	37907--B		07156104	06/05/07
17	37908--BGE		07156106	06/05/07
18	37909--C		07156107	06/05/07
19	37910--CGE		07156108	06/05/07
20	37911--C1		07156109	06/05/07
21	37912--D		07156110	06/05/07
22	37913--DGE		07156111	06/05/07
23	37914--D-1		07156113	06/05/07
24	37915--E-1		07156114	06/05/07
25	37916--H5E		07156120	06/05/07
26	37917--H7E		07156121	06/05/07
27	37918--F		07156122	06/05/07
28	37919--F1		07156123	06/05/07
29	37920--F2		07156124	06/05/07
30	37921--F3		07156125	06/05/07
31	37922--F4		07156126	06/05/07
32	37923--F5		07156127	06/05/07
33	37924--H5F		07156132	06/05/07
34	37925--F		07156133	06/05/07
35	37926--FGE		07156134	06/05/07
36	37927--EJ5		07156128	06/05/07

#	Ref	Description	Drawing#	Date
37	37928--CJ1V		07156129	06/05/07
38	37929--HJ5V		07156131	06/05/07
39	37930--CJ3V		07156130	06/05/07
40	37931--CJ1		07156117	06/05/07
41	37932--HJ5		07156118	06/05/07
42	37933--CJ3		07156116	06/05/07
43	37934--EJ5		07156115	06/05/07
44	37935--K		07156135	06/05/07
45	37936--K1		07156136	06/05/07
46	37937--K-2		07156137	06/05/07
47	37938--KGE		07156138	06/05/07
48	37939--AP		07156140	06/05/07
49	37940--APG		07156139	06/05/07





JOB DESCRIPTION:: Fill in later  
/: DENNARD

JOB NO:  
7-146

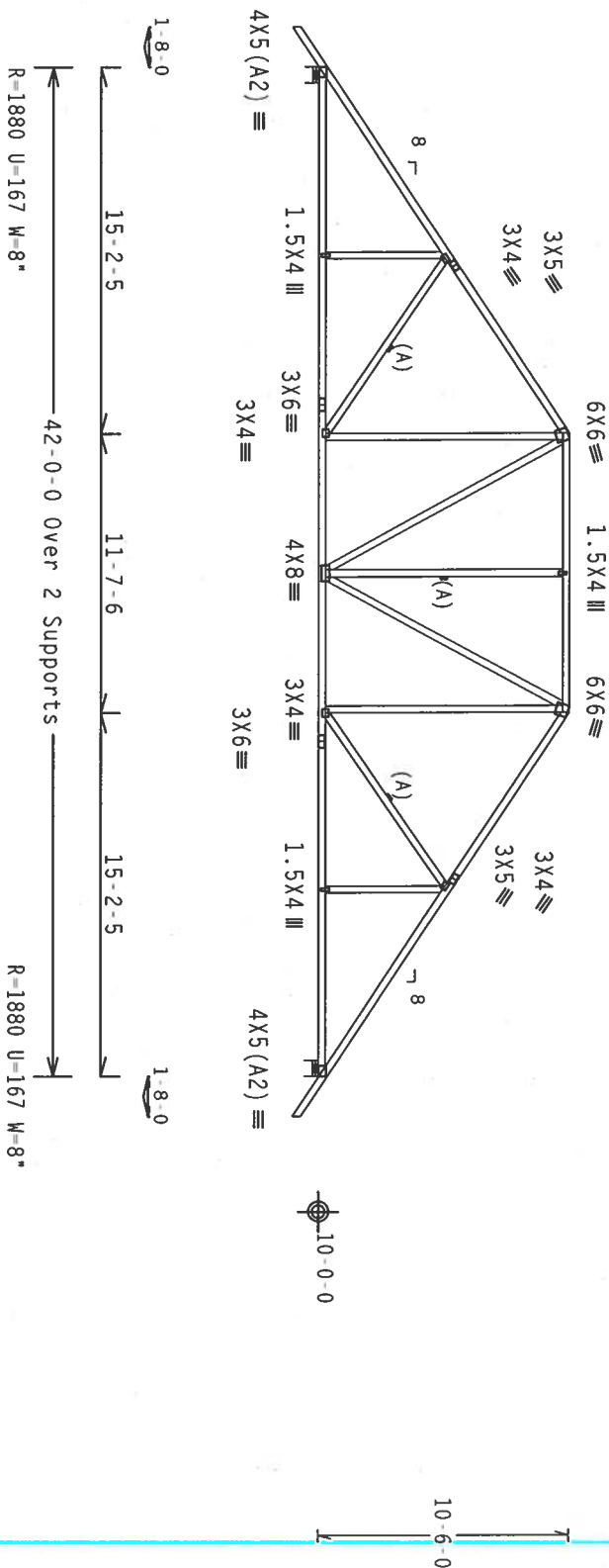
PAGE NO:  
1 OF 1



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

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

(A) Continuous lateral bracing equally spaced on member. Deflection meets  $L/240$  live and  $L/180$  total load.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$C_q/RT=1.00(1.25)/10(0)$$

7.36.04

FL/4/1/R/

Scale = .125"/Ft.

\*\*\*WARNING\*\*\* TRUSS BEARING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. SEE ATTACHED TRUSS BRACING PLAN FOR MORE INFORMATION. TRUSS MANUFACTURED BY TPI TRUSS PANEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MIDLOTHIAN, VA, 51319) 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 CEILING.

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

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

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/55/K) ASIM A653 GRADE 40/60 (W. K/H.55) GALV. STEEL. APPLY BRACES TO EACH FACE OF TRUSS AND IMPOSE ATTENUATED LOCATED ON THIS DESIGN POSITION PER DRAWING 1604-7

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

BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 667

# ALPINE

A circular professional engineer seal for Arthur R. Fisher. The outer ring contains the text "ARTHUR R. FISHER" at the top and "CITY OF JACKSONVILLE" at the bottom. The inner circle contains "STATE OF FLORIDA" and "PROFESSIONAL ENGINEER". In the center, it says "No. 59687". There are stars on the seal. A date stamp "JUN 05 '07" is visible on the left side.

TC LL	20.0 PSF	REF	R8228- 37892
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156070
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	16900
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

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

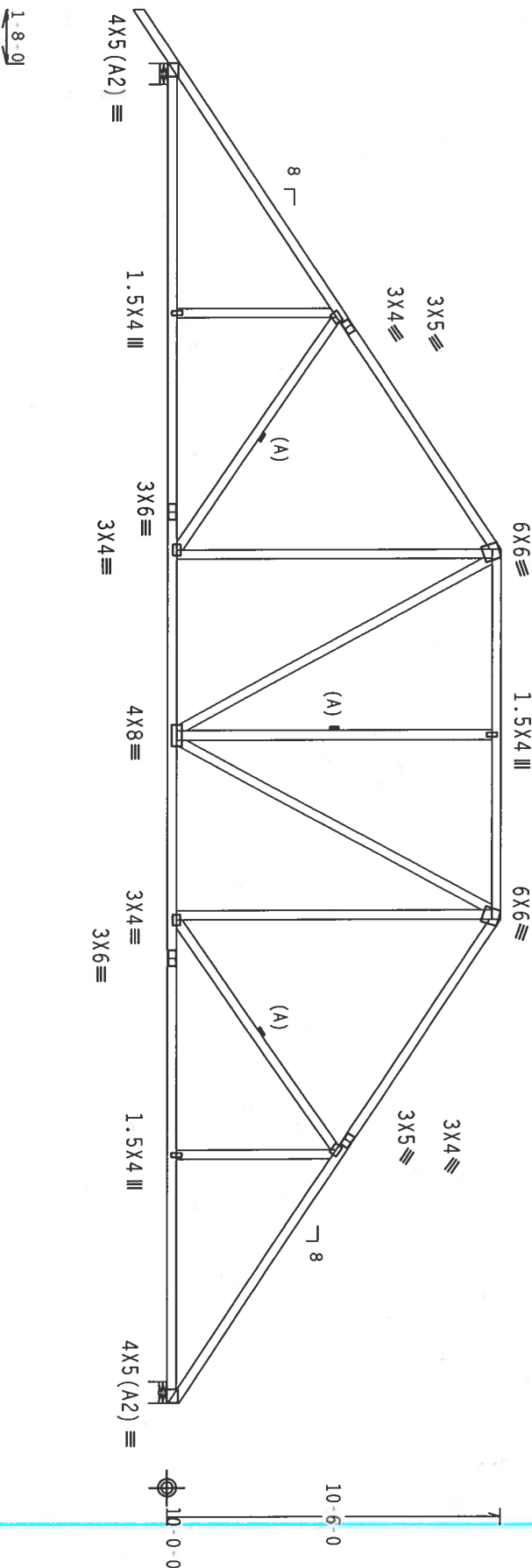
Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.  $1W=1.00 Gcpi(+/-)=0.18$

(A) Continuous lateral bracing equally spaced on member.

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



R=1882 U=168 W=8"

R=1762 U=147 W=8"

PLT TYP. Wave

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

7.36.0

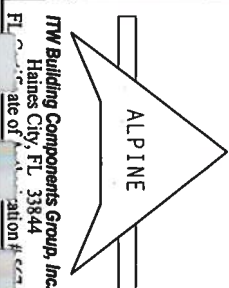
TY:1

FL-/4-/R/-

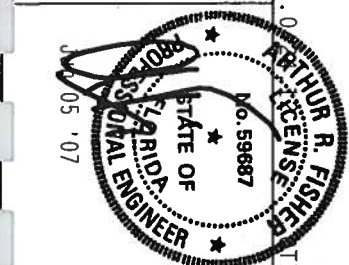
Scale = .1875"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENTS SAFETY INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6200 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



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



TC LL	20.0 PSF	REF	R8228- 37893
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156071
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	16905
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228203

מחבר: ד"ר יעקב גולדברג (מחברת: ד"ר יעקב גולדברג)

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 GCPI (+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.

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



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


 $C_d/RT=1.00(1.25)/10(0)$ 

7.36.04


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

Scale = .1875"/Ft.

**WARNING\*\*** INGRESS OF RIGID EXTRINSIC CAUSE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THIS PRODUCT MAY CAUSE FAILURE OF THE PRODUCT. IF YOU ARE A CONTRACTOR, YOU MUST BE AWARE OF THE FOLLOWING: NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WICKAMORE TRUSS COMPANY OF WICKAMORE, 6100 WICKAMORE DRIVE, WICKAMORE, VA 22191. FOR SAFETY PRACTICES PRIOR TO PREPARING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED RIGID CEILING.



**TTW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 667

[illegible]A circular professional engineer seal for Arthur R. Fisher, State of Florida, No. 53687. The seal features the text "ARTHUR R. FISHER" at the top, "ENGINEER" at the bottom, and "STATE OF FLORIDA" in the center. The number "No. 53687" is also present. A signature is written across the seal.

TC LL	20.0 PSF	REF	R8228- 3/894
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156076
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17015
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228T03

Wind reactions based on MwFRS pressures.

110 mph wind; 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT I, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 gcpi(+/-)0.18

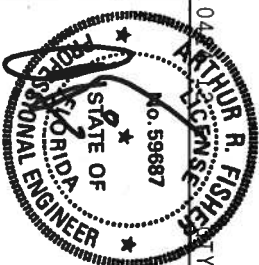


Scale = .1875"/Ft.

ALPINE

HAINES CITY, FL 33844  
FL Certificate of Registration #

\*RESPONSIBLE\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE B'G. IN SMALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE: ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONTRACTS WITH APPLICABLE PROVISIONS OF B03 (NATIONAL DESIGN SPEC. BY AISC) AND TPI. STEEL PLATES TO EACH FACE OF TRUSS AND 1/2" THICKNESS ORANGE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 100A-2. AN INSPECTION OF PLATES FOLLOWED BY (4) SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENTS DESIGN SHOW. THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Jun 05 '07

TC LL	20.0 PSF	REF	R8228 - 3/895
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156077
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN -	16917
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T7Y8228203



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

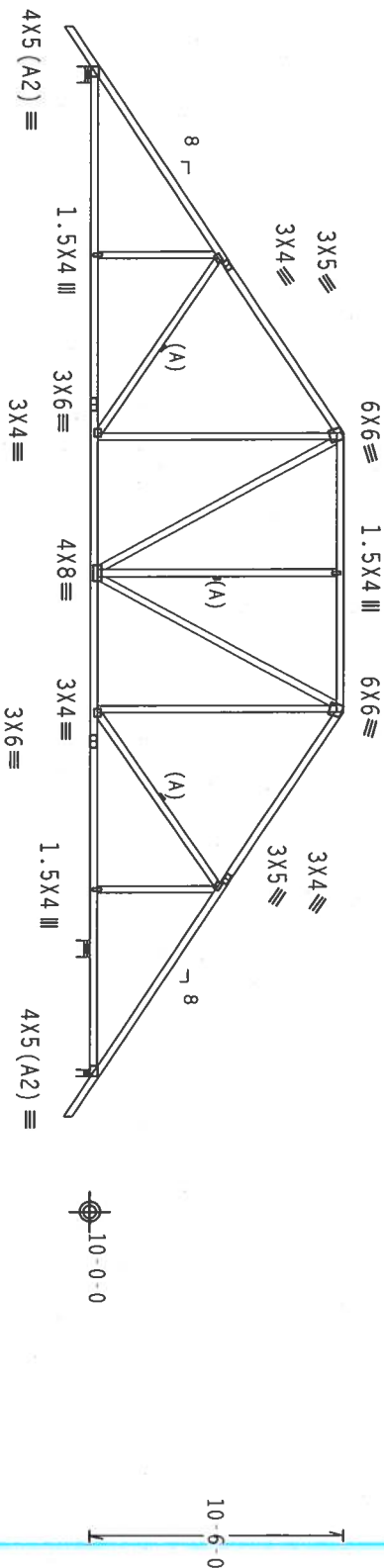
Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 GCPI(+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.

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



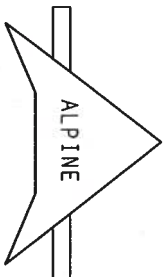
1-8-0  
15-2-5  
36-8-0  
11-7-6  
15-2-5  
1-8-0  
42-0-0 Over 3 Supports  
R-1854 U=166 W=8"  
R-204 U=11 W=8"  
R-1701 U=158 W=3.5"

PLT TYP. Wave

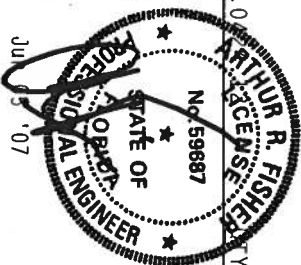
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT SAFETY INFORMATION, TRUSS COUNCIL OF AMERICA, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICA (WOOD TRUSS) COUNCIL OF AMERICA, 537191 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY ACPA AND TPI. ITW BCG DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/M, SS) 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 TPI SHALL BE PERFORMED AS OF TPI-11-2002, SEC. 3. FOR THE TRUSS COMPONENT DESIGNER'S USE ONLY. THIS DESIGN IS THE PROPERTY OF ITW BCG, INC. AND IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF ITW BCG, INC. THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
Phone: 888-444-4444  
Fax: 888-444-4444  
Website: www.alpinebuilding.com



FL/-/4/-/R/-

Scale = .125"/ft.

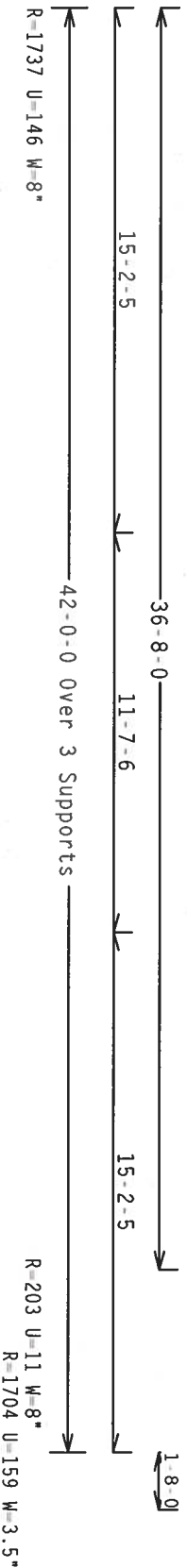
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BC DL	10.0 PSF	DRW	HCUSR8228 07156078
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEON-	16922
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	177Y8228203



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC 15.0 def wind RC 15.0 def tw 1.00 cfm/t4/-1.0 10


(A) Continuous [lateral] bracing equally spaced on member.

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

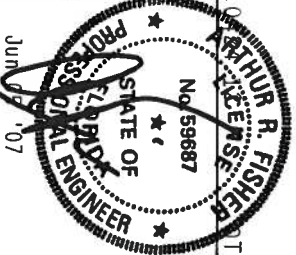


Scale = 1.875"/Ft.

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



ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEA.5 OF 171.1.2002 SEC.3.5. 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/171.1 SEC. 2.



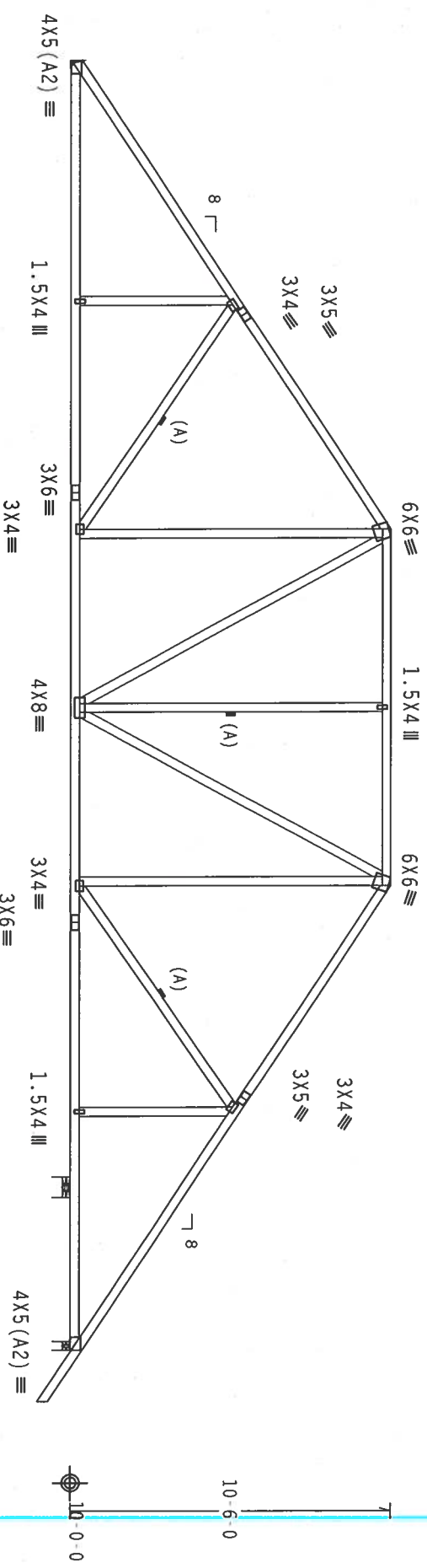
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TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156079
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	16927
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 Gcpl(+/-)=0.18  
(A) Continuous lateral bracing equally spaced on member.  
Deflection meets L/240 live and L/180 total load.



15-2-5 36-8-0 11-7-6 15-2-5 1-8-0  
42-0-0 Over 3 Supports  
R=1736 U-146  
R=203 U-11 W-8"  
R=1705 U-159 W-3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.36-0  
Scale = .1875"/ft.

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

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

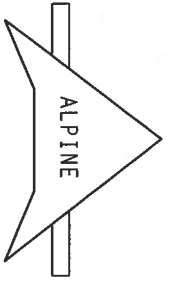
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/4) ASTM A653 GRADE 40/60 (W, K/H, 55) GALV. STEEL. APPLY

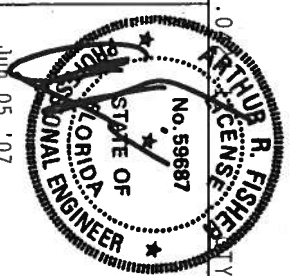
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2. USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 547



FL / - / 4 / - / - / R / -	FL / - / 4 / - / - / R / -	Scale = .1875"/ft.
TC LL	20.0 PSF	REF R8228- 37898
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUR8228 07156080
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEQN- 16933
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1T7Y8228Z03

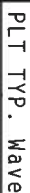
OF RUSSIA & SOVIET UNION (LAW & ECONOMICS) AND PREPARED BY

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, Cat II, Exp 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 Gcpi(+/-)=0.18

Right end vertical not exposed to wind pressure.

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

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



7.36

PATY:1

FL/4/1/1/1/R/

Scale = .25" / Ft.

STATE OF  
No. 59687

TC LL	20.0 PSF
TC DL	10.0 PSF

REF	R8228 - 37899
DATE	06/05/07

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

---

ALPINE

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

Haines City, FL 33844  
FL Certificate of Registration

## SPACING

JREF - 1T7Y8228Z03

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

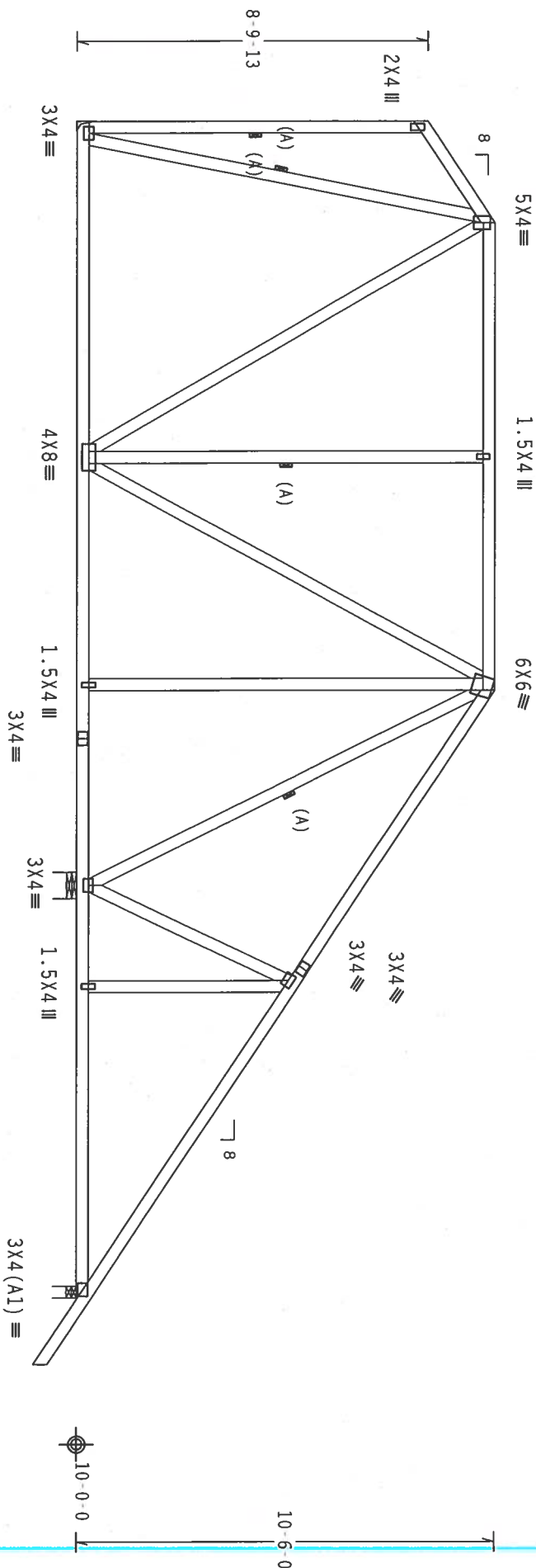
Wind reactions based on MMFRS pressures.

Left end vertical not exposed to wind pressure.

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

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

(A) Continuous lateral bracing equally spaced on member.  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



29'-4-0 Over 3 Supports  
R=824 U=113  
R=1141 U=78 W=8"  
R=614 U=42 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.36.0

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REAR TO BESS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH BAKER, SUITE 100, CHICAGO, IL 60604) AND TPI (TRUSS PLATE INSTITUTE, 218 NORTH BAKER, SUITE 100, CHICAGO, IL 60604) 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.

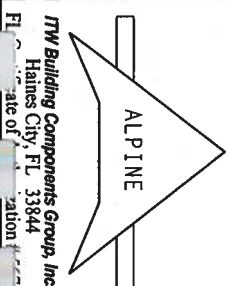
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITM BCG

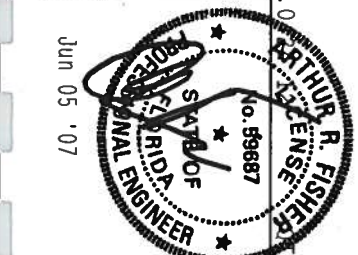
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/2) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SILENT FOR THE TRUSS COMPONENT DESIGN. SHOW THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



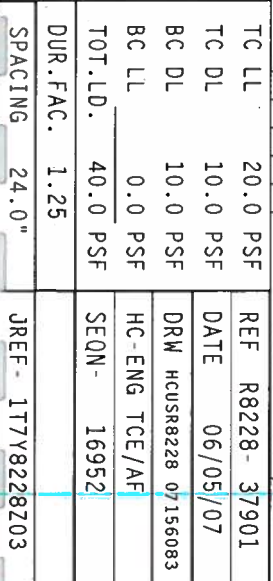
ITM Building Components Group, Inc.  
Haines City, FL 33844  
State of Florida  
License No. 1777



TC LL	20.0 PSF	REF R8228-37900
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUR8228 0716082
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEON-16946
DUR. FAC.	1.25	
SPACING	24.0"	
UREF	177Y8228Z03	



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





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

Wind reactions based on MMFRS pressures.

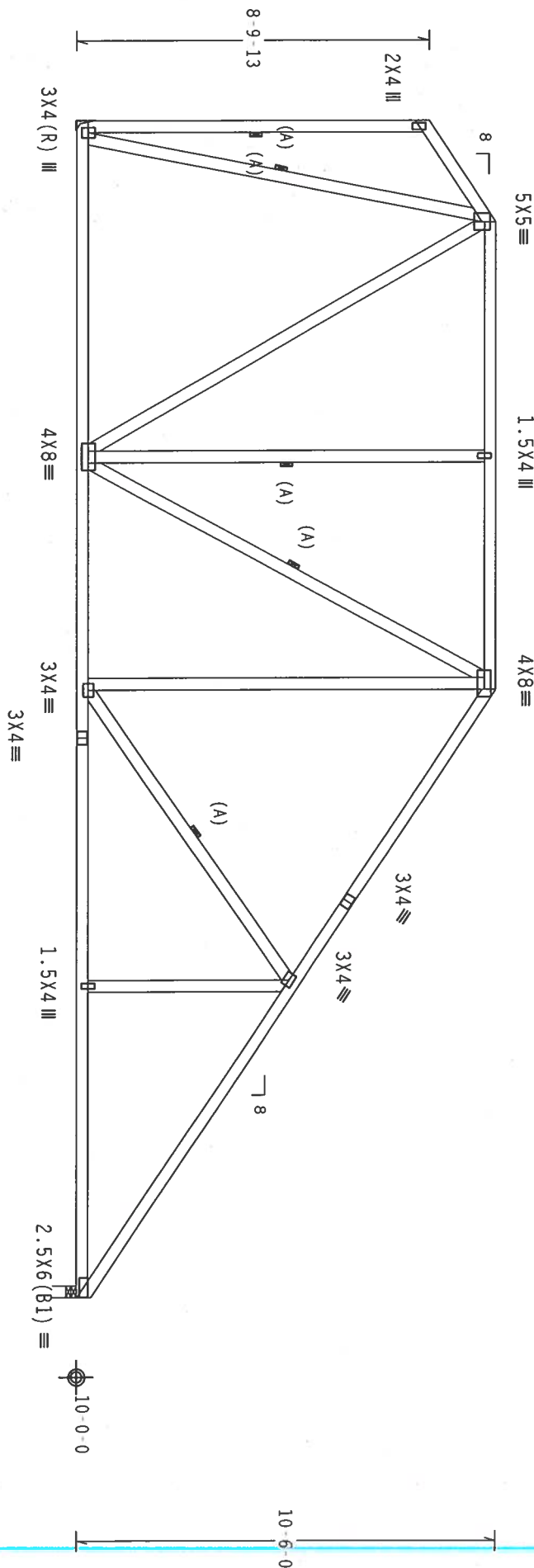
Left end vertical not exposed to wind pressure.

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

110 mph wind, 15.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $6cp1(+/-)=0.18$

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

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

7.36.0

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

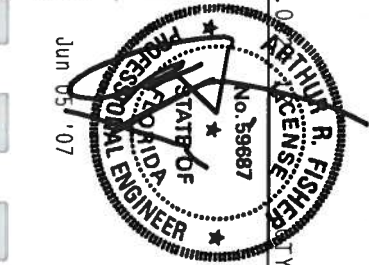
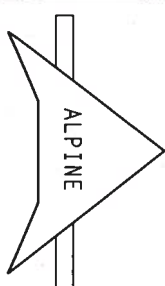
Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314 AND 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. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION PLACES FOLLOWED BY TPI SHALL BE PER AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Florida



TC LL	20.0 PSF	REF	R8228-37902
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156084
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	16958
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228203

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

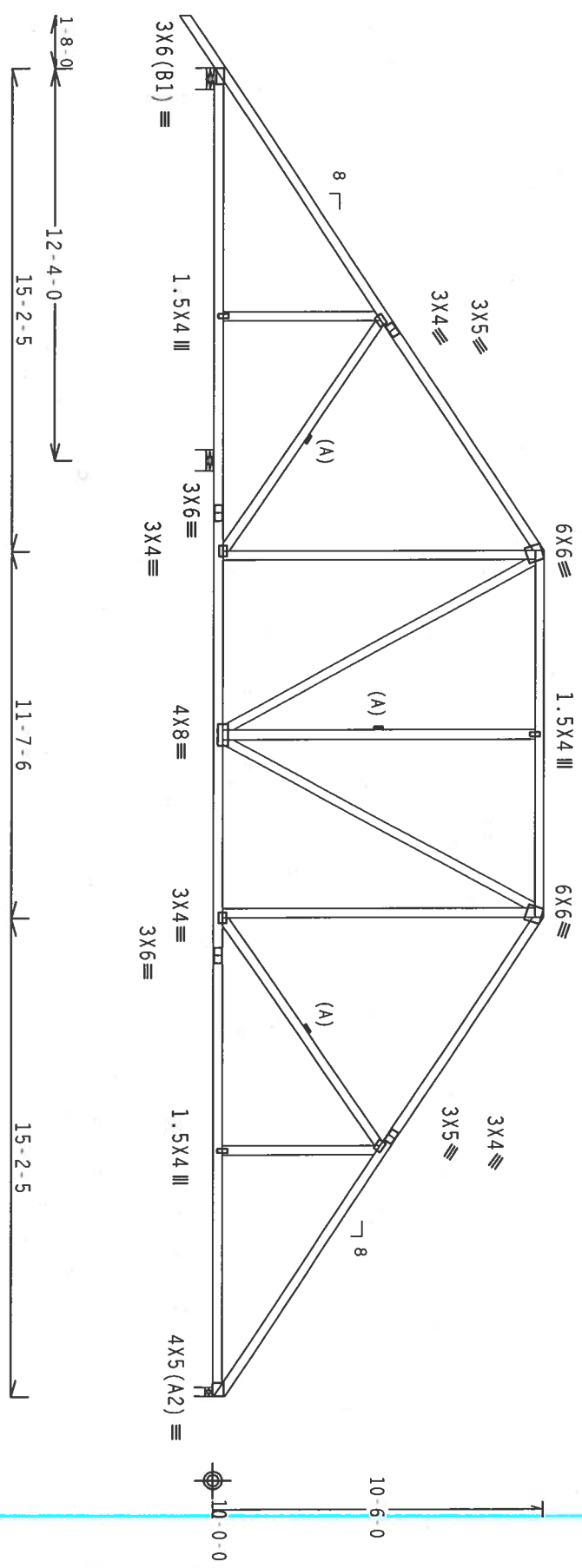
Wind reactions based on MMFRS pressures.

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

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

(A) Continuous lateral bracing equally spaced on member.

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



R=1690 U=163 W=8"

R=271 U=8 W=8"

R=1683 U=145 W=3.5"

PLT TYP. Wave

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

7.36.0

FL/-/4/-/R/-

Scale = .1875"/ft.

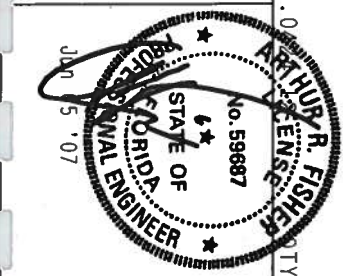
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BEST BUILDING COMPONENTS SAFETY MANUAL FOR TRUSSES BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND AISC (H000) PUBLICATION "SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS". UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

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ALPINE  
ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL 33844  
Station # 57



TC LL	20.0 PSF	REF	R8228- 37903
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCSR8228 07156085
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	16964
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

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

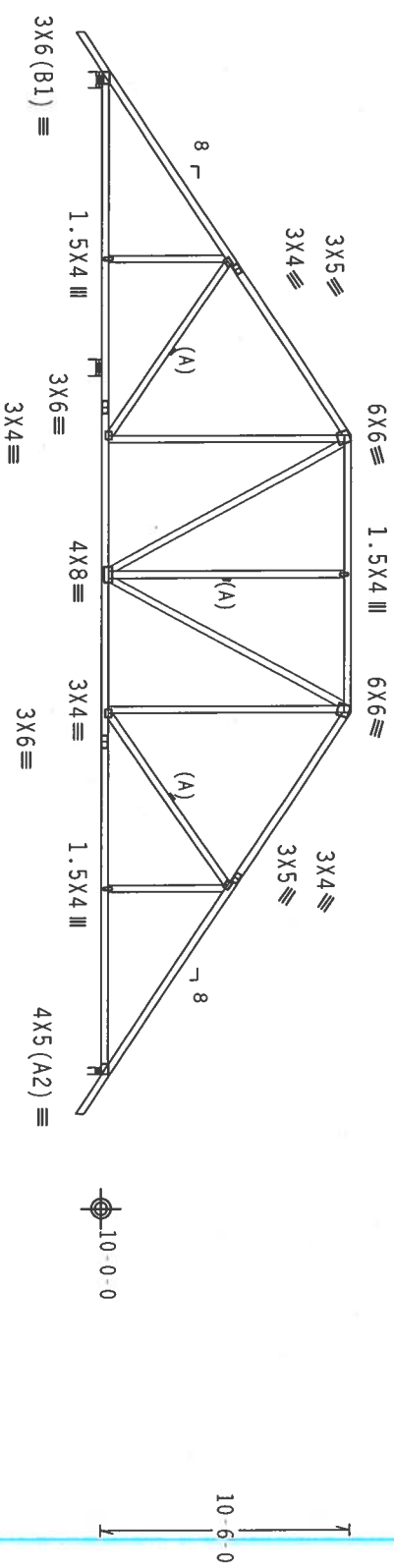
Wind reactions based on MMFRS pressures.

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

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

(A) Continuous lateral bracing equally spaced on member.

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



1-8-0 12-4-0 15-2-5 11-7-6 15-2-5 1-8-0  
42-0-0 Over 3 Supports  
R=1687 U=163 W=8" R=272 U=7 W=8" R=1800 U=165 W=3.5"

PLT TYP. Wave

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

7.36.0

FL/-/4/-/R/-

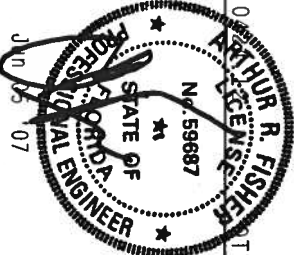
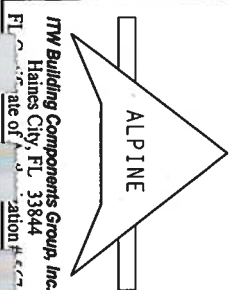
Scale = .125"/ft.

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

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASD) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/90 (W. K/M/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

INSPECTION PLACES FOLLOWED BY TPI SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. FOR THE TRUSS COMPONENT DESIGN SHOWN THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 37904
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156086
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	16969
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228203

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W6, W8 2x4 SP #2 Dense:

Truss spaced at 24.0" OC designed to support 1-4-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

(A) Continuous lateral bracing equally spaced on member.

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

The Building Designer is responsible for the design of the  
roof and ceiling diaphragms, gable end shear walls, and  
supporting shear walls. Shear walls must provide continuous  
lateral restraint to the gable end. All connections to be  
designed by the Building Designer.

+ Member to be laterally braced for horizontal wind loads.  
Bracing system to be designed and furnished by others.

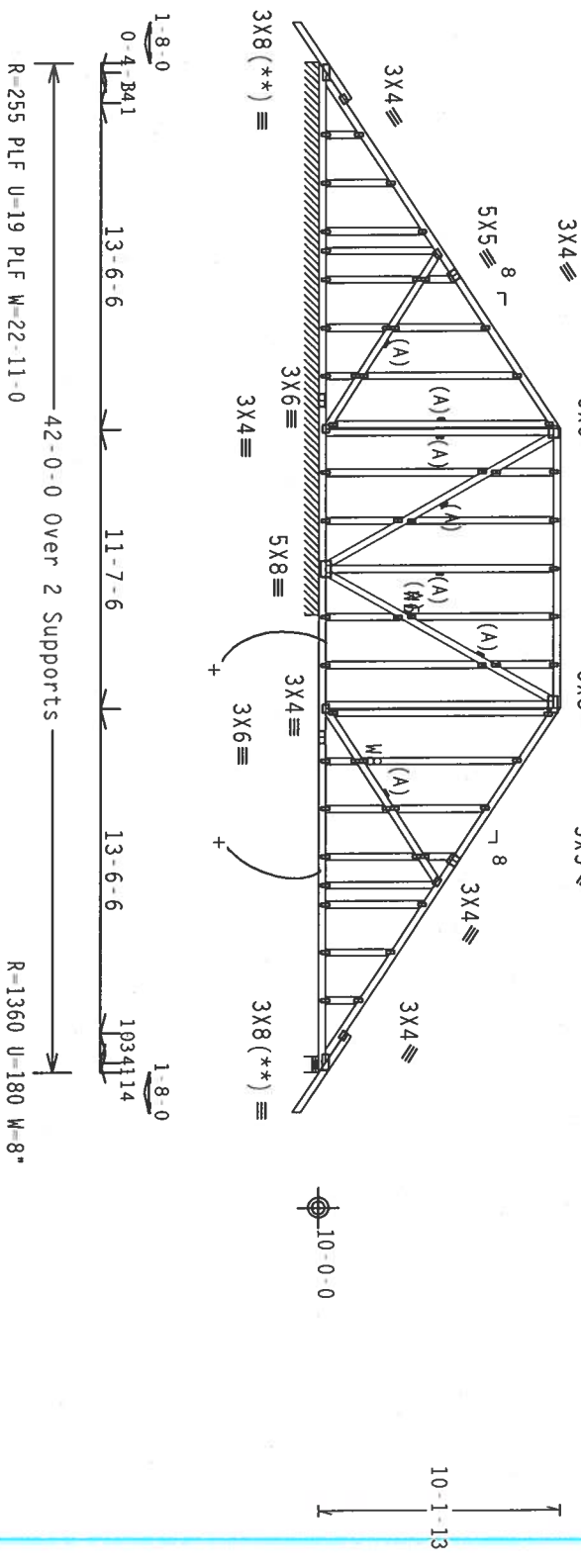
(\*\*) 3 plate(s) require special positioning. Refer to scaled  
plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg,  
located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)-0.18

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

1.5X4(\*\*) III



Note: All Plates Are 1.5X4 Except As Shown.  
PLT TYP. Wave

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

7.25.04

ARTHUR A. FISHER  
No. 59887  
Professional Engineer  
FLA. 07

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

Scale = .125"/ft.

ALPINE	FL-1-4-0	TC LL	20.0 PSF	REF	R8228- 37905
		TC DL	10.0 PSF	DATE	06/05/07
		BC DL	10.0 PSF	DRW	HCSUR8228 07156103
		BC LL	0.0 PSF	HC-ENG	TCE/AF
		TOT. LD.	40.0 PSF	SEON-	95910 REV
		DUR. FAC.	1.25		
		SPACING	SEE ABOVE	JREF-	1T7Y8228203

TW Building Components Group, Inc.  
Haines City, FL 33844  
FL-1-4-0



[illegible]

110 mph wind, 15.00 ft mean hgt. ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi (+/-)=0.18

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

(A) Continuous lateral bracing equally spaced on member. Deflection meets  $L/240$  live and  $L/180$  total load.

(\*\*) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.



Design Crit: TPI-2002(STD)/FBC

 $C_q/RT=1.00(1.25)/10(0)$ 

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

Scale = .125"/Ft.

ARTHUR R. FISHER  
LICENSE  
No. 59687  
STATE OF

NEED



05 '07

—

TC LL	20.0 PSF	REF	R8228- 37906
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	H05R8228 07156119
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17189 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1T7Y8228Z03



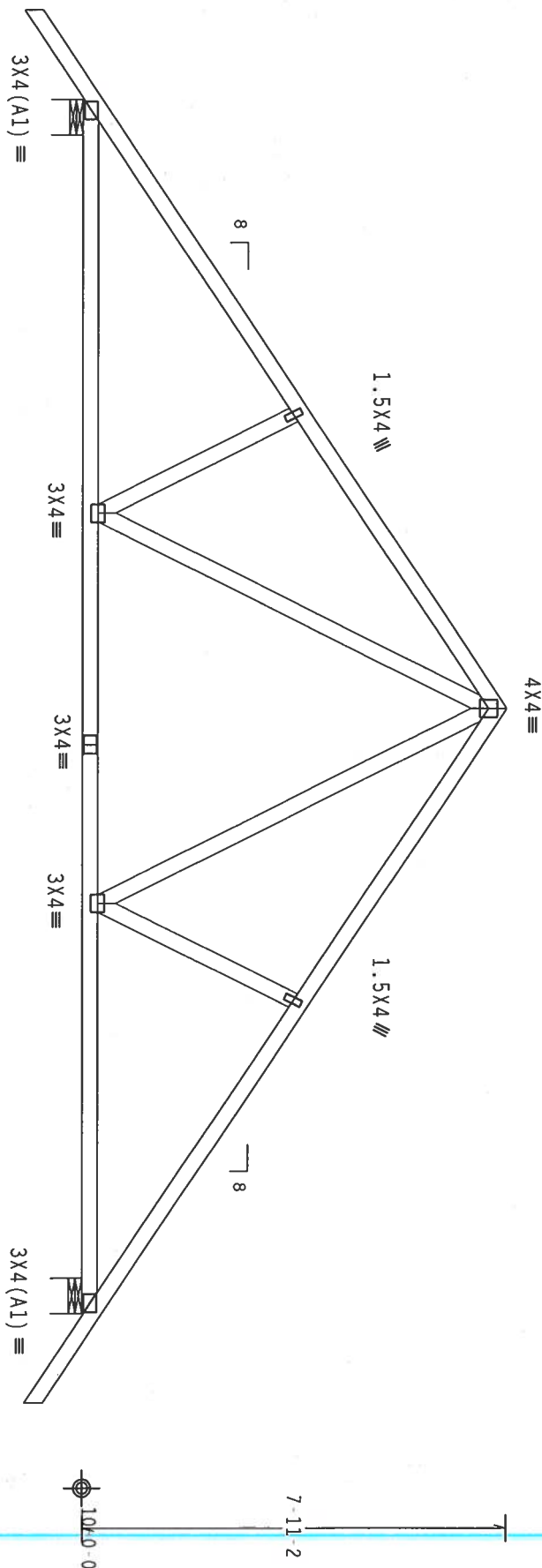
(7-146--fill in later DENNARD -- \*\* - B)

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

Wind reactions based on MFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf, IW=1.00 gcpl(+/-)=0.18

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



11-4-0 11-4-0 22-8-0 Over 2 Supports  
R-1067 U-91 W-8\"/>

PLT TYP. Wave

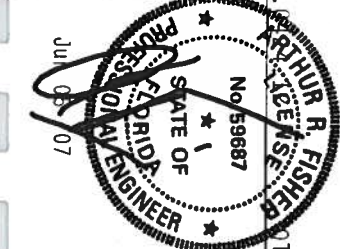
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

\*\*\*WARNING\*\*\* THUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS 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 FABRICATOR. THE TRUSS SHALL BE USED IN CONFORMANCE WITH THE DESIGN. THE TRUSS SHALL NOT BE USED FOR ANY OTHER PURPOSE. THE TRUSS SHALL NOT BE USED FOR ANY OTHER PURPOSE. THE TRUSS SHALL NOT BE USED FOR ANY OTHER PURPOSE.

\*\*\*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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE TRUSS SHALL NOT BE USED FOR ANY OTHER PURPOSE. THE TRUSS SHALL NOT BE USED FOR ANY OTHER PURPOSE. THE TRUSS SHALL NOT BE USED FOR ANY OTHER PURPOSE.

ALPINE

TW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Florida



TC LL	20.0 PSF	REF	R8228-37907
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCU8R8228 07156104
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	16873
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

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

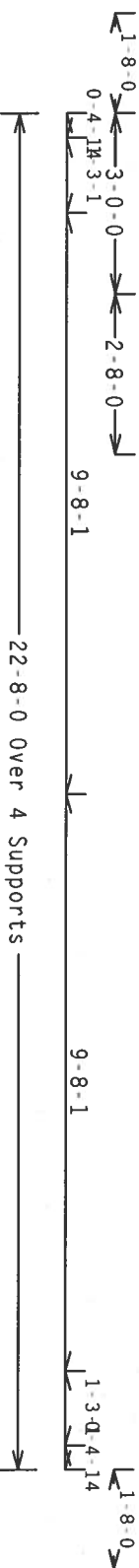
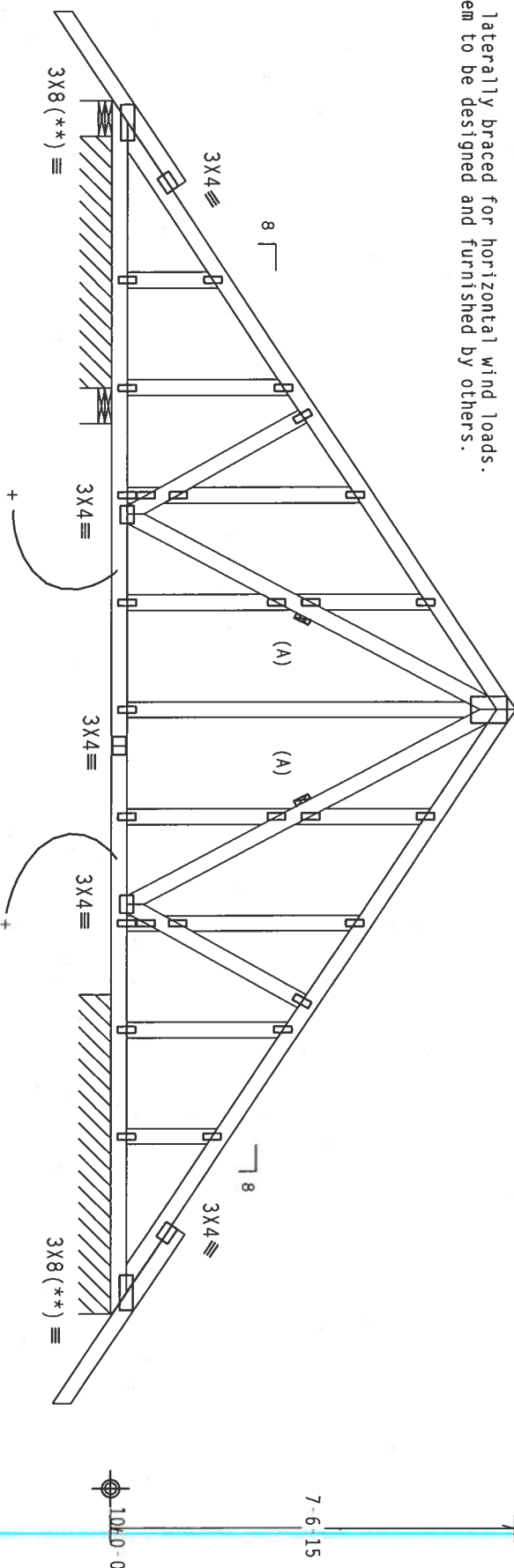
Truss spaced at 24.0" OC designed to support 1-4-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

(A) Continuous lateral bracing equally spaced on member.

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.

+ Member to be laterally braced for horizontal wind loads.  
Bracing system to be designed and furnished by others.

(\*\*) 2 plate(s) require special positioning. Refer to scaled  
plate plot details for special positioning requirements.  
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg,  
located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf, IW=1.00 GCP1(+/-)-0.18  
See DWGS A11015EF0207 & GBLLETIN0207 for more requirements.  
Deflection meets L/240 live and L/180 total load.



R-982 U=180 W=8"  
R-85 PLF U=39 PLF W=4-8-0

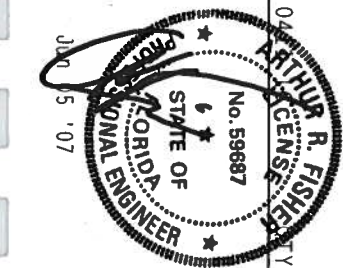
R-284 PLF U=31 PLF W=6-0-0

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

\*\*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 NCCA (WOOD TRUSS COUNCIL OF AMERICA, 6200  
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.

ALPINE

TM Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Approval # 477



TC LL	20.0 PSF	REF	R8228- 37908
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156106
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	95914 REV
DUR. FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1T7Y8228203

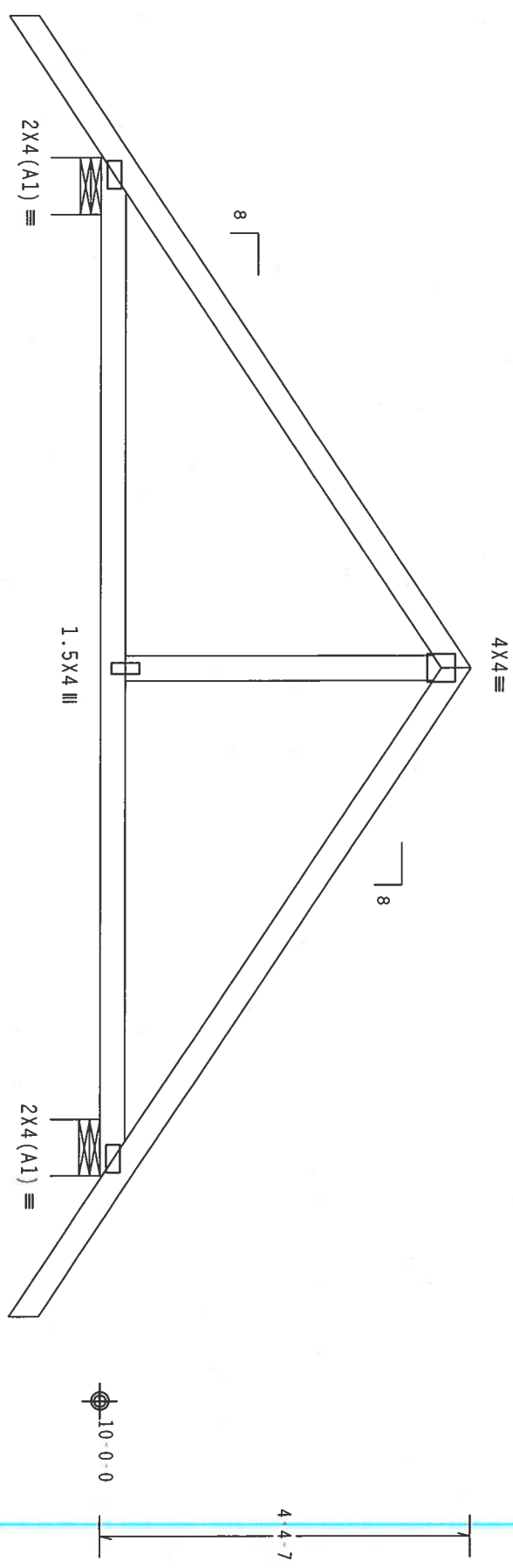
Scale = .3125"/ft.

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

Wind reactions based on MMFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 Gcpl(+/-)=0.18

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



PLT TYP. Wave

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

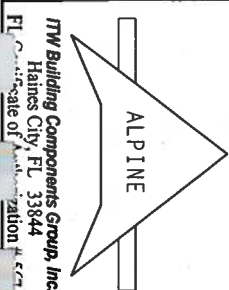
7.36.00

Scale = .5"/ft.

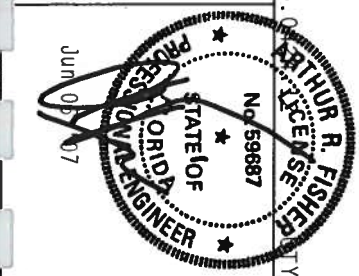
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA),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

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/X) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 43 OR TPI-2002 SEC.3.6. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Registration # 57



TC LL	20.0 PSF	REF	R8228 - 37909
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156107
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN	16868
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1T7Y8228203

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

Wind reactions based on MMFRS pressures.

Truss spaced at 24.0" OC designed to support 1-4-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

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.

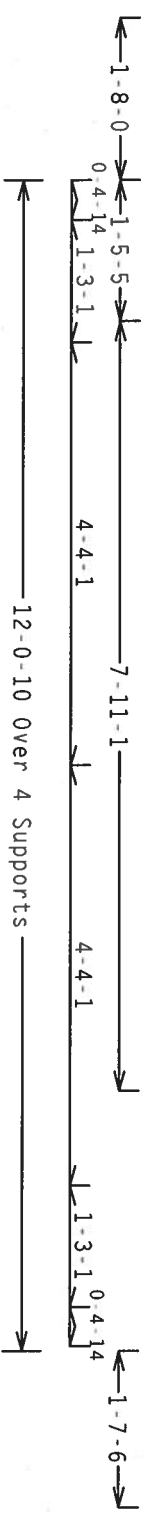
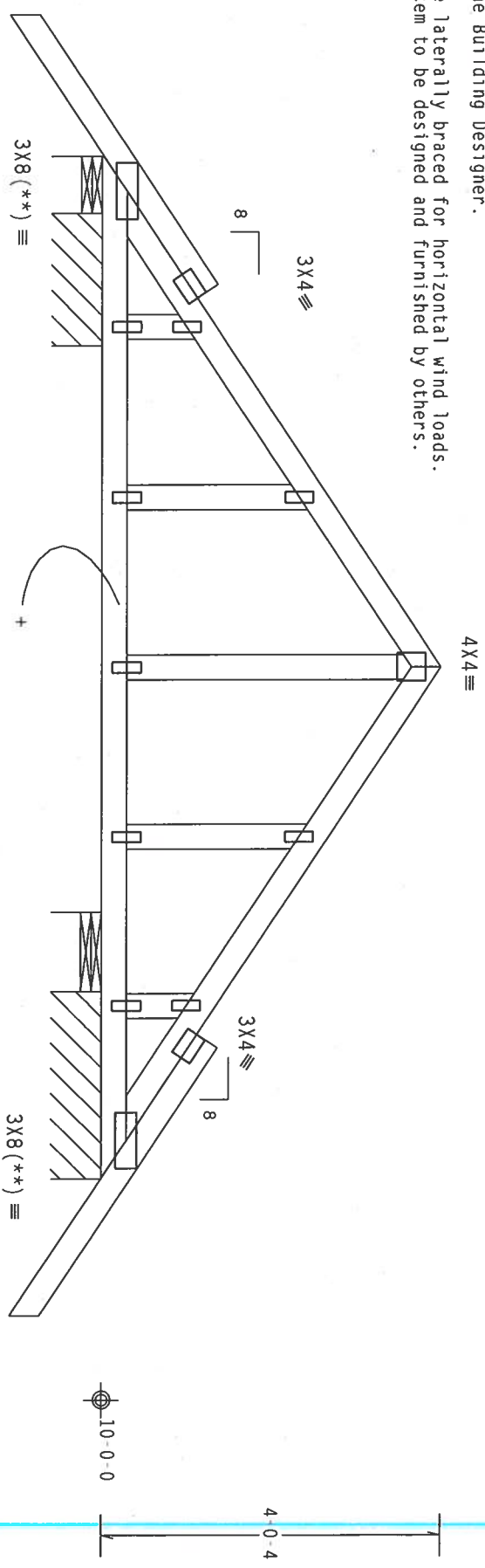
+ Member to be laterally braced for horizontal wind loads.  
Bracing system to be designed and furnished by others.

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

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

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



R=557 U=169 W=8"  
R=199 PLF U=74 PLF W=1-6-10

R=254 U=94 W=11.314"  
R=285 PLF U=88 PLF W=2-2-10

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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



FL - /4 - / - /R -

Scale = .5" / ft.

TPI Building Components Group, Inc. Haines City, FL 33844 FL Certificate of Authorization # 547		ALPINE		JUN 07	
**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (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), 1000 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. TPI 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. BY ACPRA AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPRA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/R) ASTM A653 GRADE 40/60 (W. K/M, 251 GALV. STEEL). APPLY PLATES TO ALL TRUSS CHORDS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 2, 160C, 2, 160D, 2, 160E, 2, 160F, 2, 160G, 2, 160H, 2, 160I, 2, 160J, 2, 160K, 2, 160L, 2, 160M, 2, 160N, 2, 160O, 2, 160P, 2, 160Q, 2, 160R, 2, 160S, 2, 160T, 2, 160U, 2, 160V, 2, 160W, 2, 160X, 2, 160Y, 2, 160Z, 2. DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/TPI 1 SEC. 2.		JUN 07	
TC LL	20.0 PSF	REF	R8228 - 37910	JREF - 1T7Y8228203	
TC DL	10.0 PSF	DATE	06/05/07		
BC DL	10.0 PSF	DRW	HCU8R8228 07156108		
BC LL	0.0 PSF	HC-ENG	TCE/AF		
TOT.LD.	40.0 PSF	SEON -	16887	REV	
DUR.FAC.	1.25				
SPACING	SEE ABOVE				







THIS WORK PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY KUSS MR.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind Tc DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 gcpl(+/-)=0.18

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



7.36.04/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/10

Scale = .3125"/Ft.

ALPINE

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 59687, dated June 09, 2007.

TC LL	20.0 PSF	REF	R8228- 3/912
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156110
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17004
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

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

Wind reactions based on MMFRS pressures.

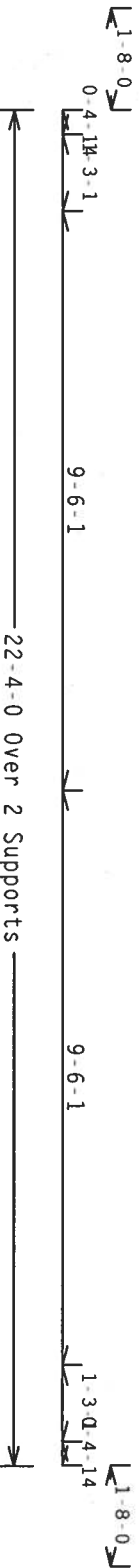
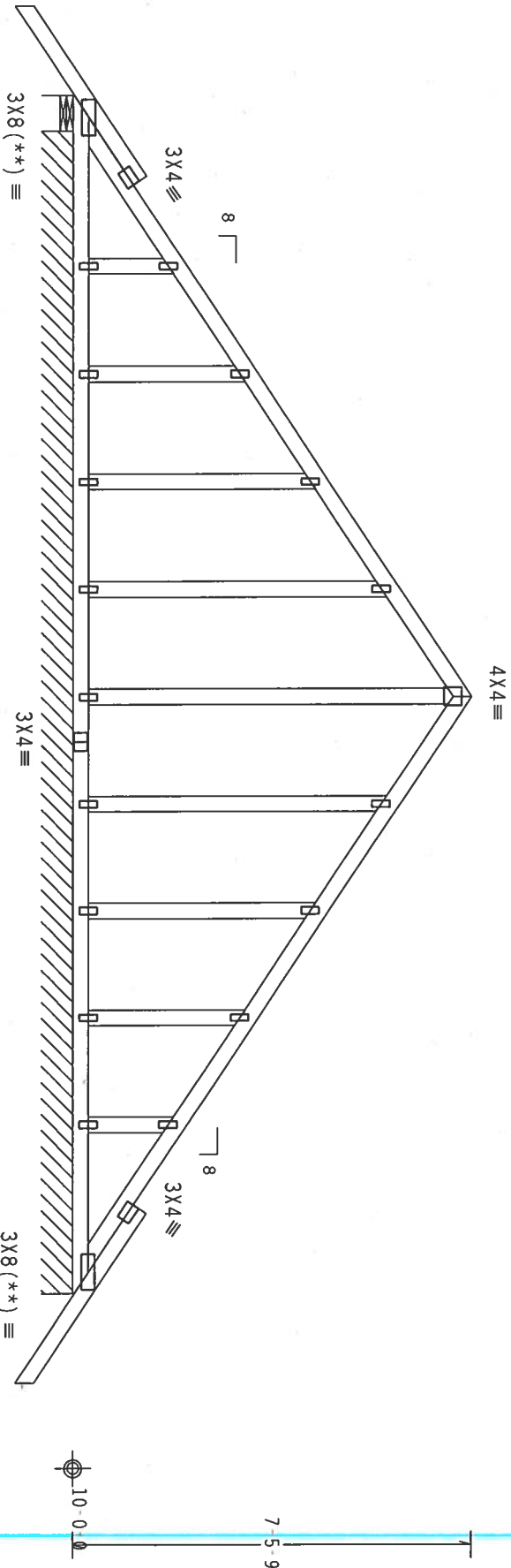
Truss spaced at 24.0" OC designed to support 1-4-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

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

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

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



R-481 U-15 W-8"  
R-133 PLF U-17 PLF W-21 8-0  
Note: All Plates Are 1.5X4 Except As Shown.

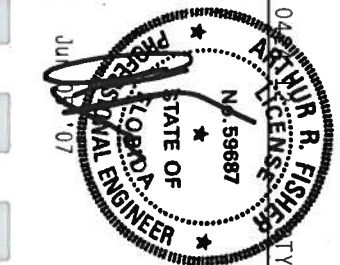
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.36.04

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NO TRUSS BESS (BUILDING COMPONENTS SAFETY INNOVATION), PUBLISHED BY TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



ITW Building Components Group, Inc.  
Haines City, FL 33844  
State of Florida License # 527



TC LL	20.0 PSF	REF	R8228-37913
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCSR8228 07156111
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	17011 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1778228203

Top chord 2x4 SP #2 Dense  
Bot chord 2x8 SP #1 Dense  
Webs 2x4 SP #3 :W5 2x4 SP #2 Dense:  
Lt Wedge 2x6 SP #2:Rt Wedge 2x6 SP #2:

SPECIAL LOADS

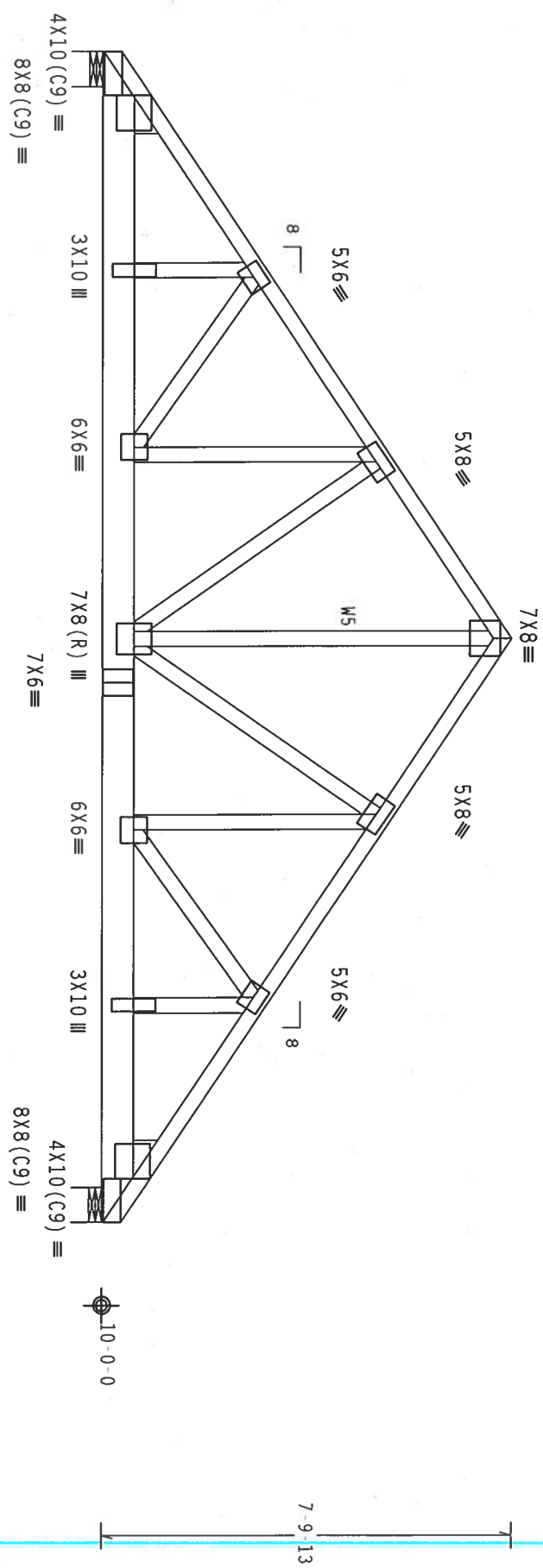
(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at 0.00 to 64 PLF at 11.17  
TC - From 64 PLF at 11.17 to 64 PLF at 22.33  
BC - From 20 PLF at 0.00 to 20 PLF at 22.33  
BC - 1761 LB Conc. Load at 2.06, 4.06, 6.06, 8.06, 10.06  
12.06, 14.06, 16.06, 18.06, 20.06

Wind reactions based on MMFRS pressures.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3" min.) nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 2 Rows @4.00" o.c. (Each Row)  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.  
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf. Iw=1.00 GCPI(+/-)=0.18

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



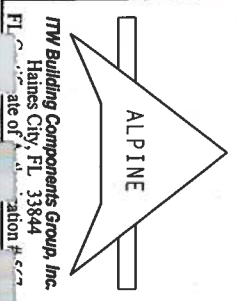
R=9828 U=837 W=8"  
R=9661 U=823 W=8"

PLT TYP. Wave

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



Scale = .3125"/ft.



\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS BUILDING COMPONENTS SAFETY INFORMATION TPI TRUSSES OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/50 (W. K/M/35) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3 FOR THE TRUSS COMPONENT DESIGN AND (2) SHALL BE PER AMEX AS OF TPI-2002 SEC.3 FOR THE TRUSS COMPONENT DESIGN. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TPI 1 SEC. 4.

TC LL	20.0 PSF	REF R8228- 37914
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUSR8228 07156113
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 17023
DUR.FAC.	1.25	
SPACING	See above	JREF- 1T7Y8228203

Top Chord 2x4 SP #2 Dense  
Bot Chord 2x6 SP #1 Dense  
Webs 2x4 SP #3

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at 0.00 to 64 PLF at 8.50  
TC - From 64 PLF at 8.50 to 64 PLF at 12.33  
BC - From 20 PLF at 0.00 to 20 PLF at 12.33  
BC - 1736 LB Conc. Load at 2.40, 4.40, 6.40, 8.40, 10.40

Wind reactions based on MMFRS pressures.

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

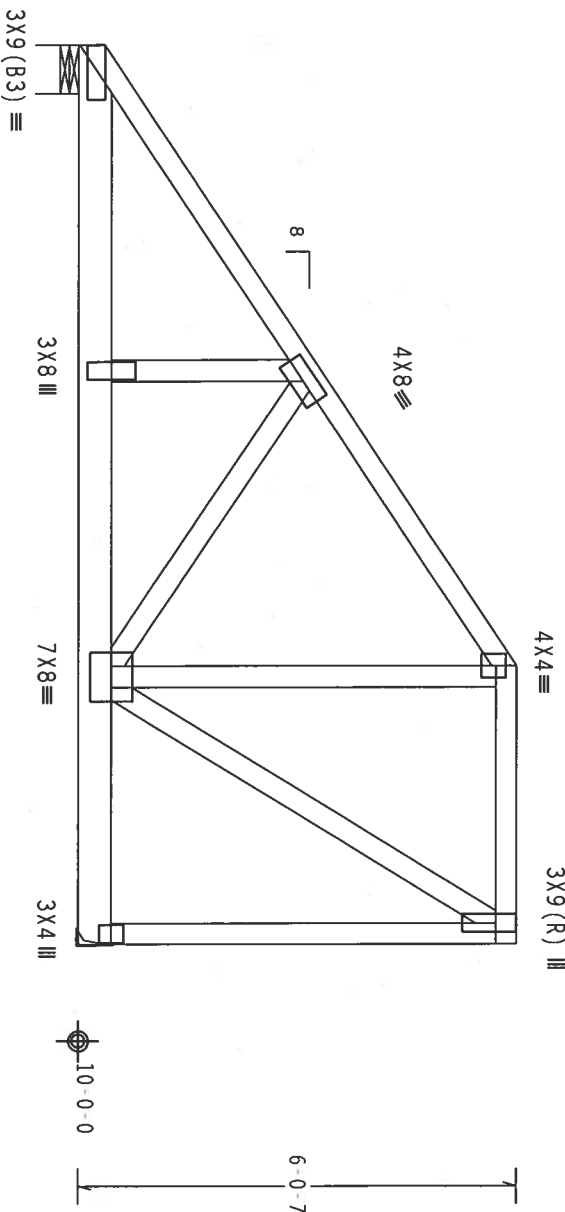
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3", min.) nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 2 Rows @4.00" o.c. (Each Row)  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.

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



8'-6-0 3'-10-0  
12'-4-0 Over 2 Supports  
R=4753 U=409 W=8"  
R=4963 U=426

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

QTY: 1

FL/-/4/-/R/-

Scale = .375"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR SAFETY. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICK (WOOD) TRUSS COUNCIL OF AMERICA, 6200 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. JTW 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.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AITPA) AND TPI. JTW BCG CONNECTIONS ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. FOR THE TRUSS COMPONENTS SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE TRUSS COMPONENTS. THE TRUSS COMPONENT DESIGN SHOWN INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL 20.0 PSF REF R8228- 37915

TC DL 10.0 PSF DATE 06/05/07

BC DL 10.0 PSF DRW HCUSR8228 07156114

BC LL 0.0 PSF HC-ENG TCE/AF

TOT.LD. 40.0 PSF SEON- 17161

DUR.FAC. 1.25

SPACING See above

JREF- 1T7Y8228203

ALPINE

JTW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 5727



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

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

Wind reactions based on MMFRS pressures.

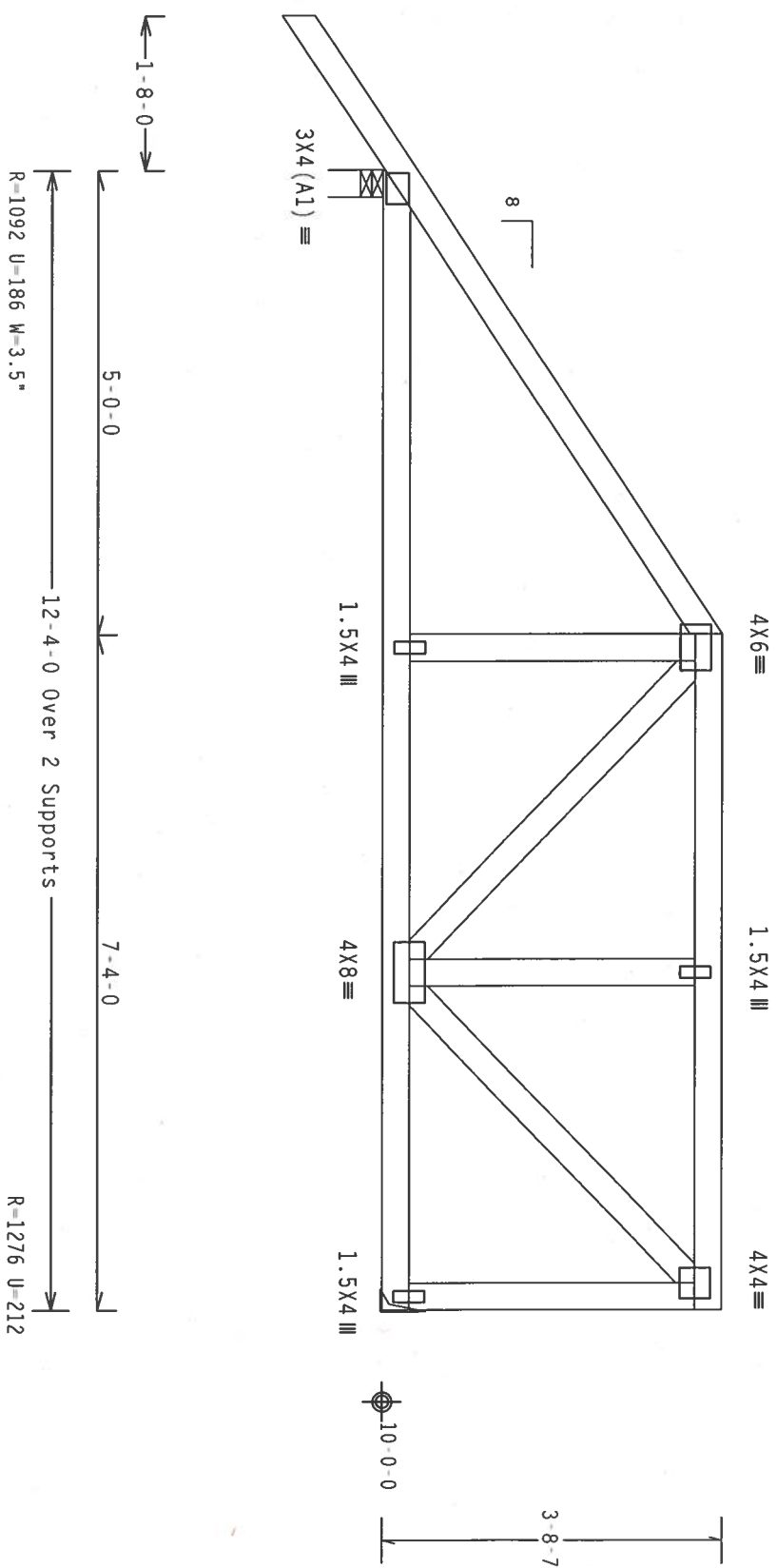
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

**SPECIAL LOADS**

----- (LUMBER		DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC - From	64 PLF at -1.67 to 5.00	64 PLF at 5.00	
TC - From	64 PLF at 5.00 to 12.33	64 PLF at 12.33	
BC - From	5 PLF at -1.67 to 0.00	5 PLF at 0.00	
BC - From	20 PLF at 0.00 to 12.33	20 PLF at 12.33	
TC - From	352 LB Conc. Load at 5.00		
TC - From	129 LB Conc. Load at 7.06,	9.06, 11.06, 12.27	
BC - From	142 LB Conc. Load at 5.00		
BC - From	52 LB Conc. Load at 7.06,	9.06, 11.06, 12.27	

Right end vertical not exposed to wind pressure.

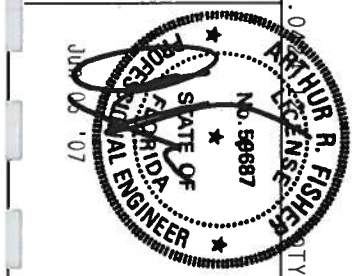
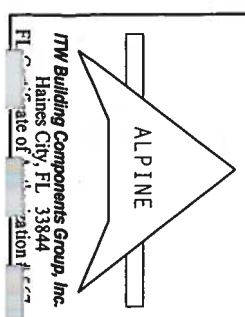


PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENTS SAFETY PUBLICATIONS, "SAFETY OF TRUSSES", NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICK (WOOD TRUSS) COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/60 (W, V/H/SS) 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 AMER AS OF TPI-1-2002 SEC.3. ON THE TRUSS COMPONENT DESIGN AND INDICATES THE LOCATION OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



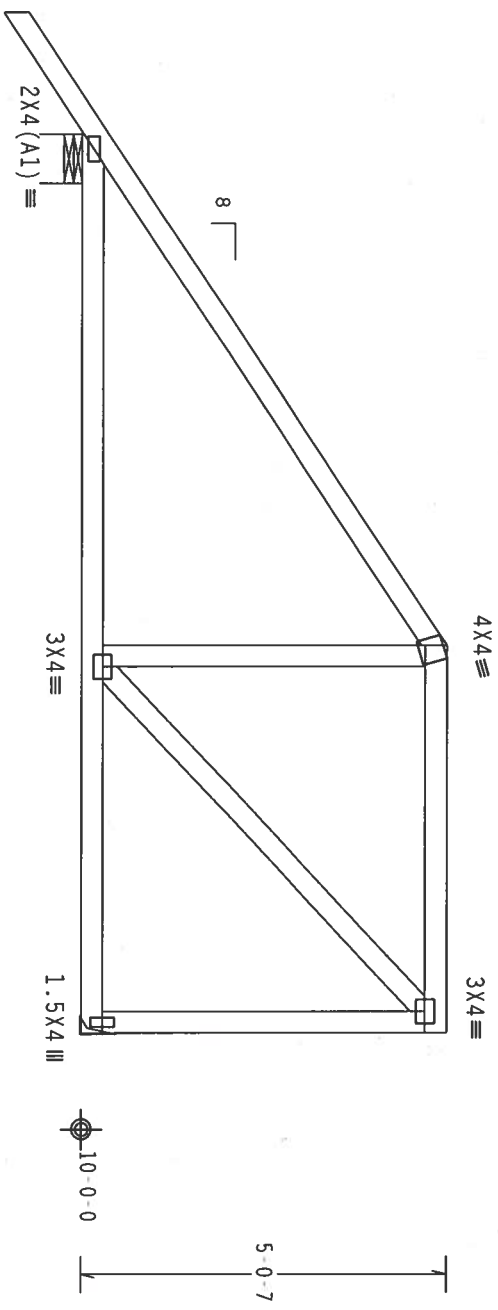
TC LL	20.0 PSF	REF	R8228- 37916
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCU8R8228 0716120
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	17152
DUR.FAC.	1.25		
SPACING	See above	UREF-	1778228203

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpi}(+/-)=0.18$   
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load.



1-8-0

7-0-0  
5-4-0  
12-4-0 Over 2 Supports  
R-648 U=42 W=8"  
R-503 U=67

PLT TYP. Wave

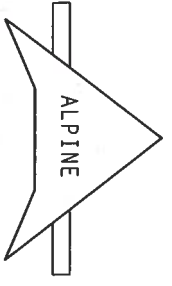
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

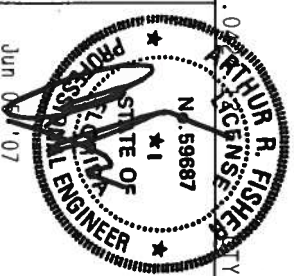
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI-1. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI-1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
Phone: 888-333-3333  
Fax: 888-333-3333  
Website: www.alpineinc.com



TC LL	20.0 PSF	REF	R8228- 37917
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 0716121
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEGN-	17157
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228203

Scale = .375"/ft.

INITIAL PREPARATION FROM SUPPLIERS (LVAAS & DIMENSION) SUBMITTED BY INUS FPK.

110 mph wind, 23.37 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18

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



ARTHUR R FISHER  
LICENSE

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

Scale = .375" / Ft.

STATE OF  
No. 59667

REF	R8228 - 37918
DATE	06/05/07

DAY OF THE  
LINE

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RESIDENT ENGINEER

HC-ENG TCE/AF

DATE	06/05/07
DRW	HCUSR8228 07156122
HC - ENG	TCE/AF
SEQN -	17051

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JREF - 1T7Y8228Z03

התאריך: 10.10.2019

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



ARTHUR P. FISHER  
LIBRARIAN  
AT

Scale = .375" / Ft.

ALPINE

**TTW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 567

\*\*\*IMPORTANT\*\*\*URNISH 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 THE TRUSS MANUFACTURING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC. (F1504) AND TPI. TRUSS PLATES TO EACH FACE OF TRUSS AND JOINTS OTHERWISE LOCATED ON THIS DESIGN. SECTION PER DRAWINGS 1500-2.3. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1020 SEC.3. A SEAL ON THIS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0 PSF	REF	R8228- 37919
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156123
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17056
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

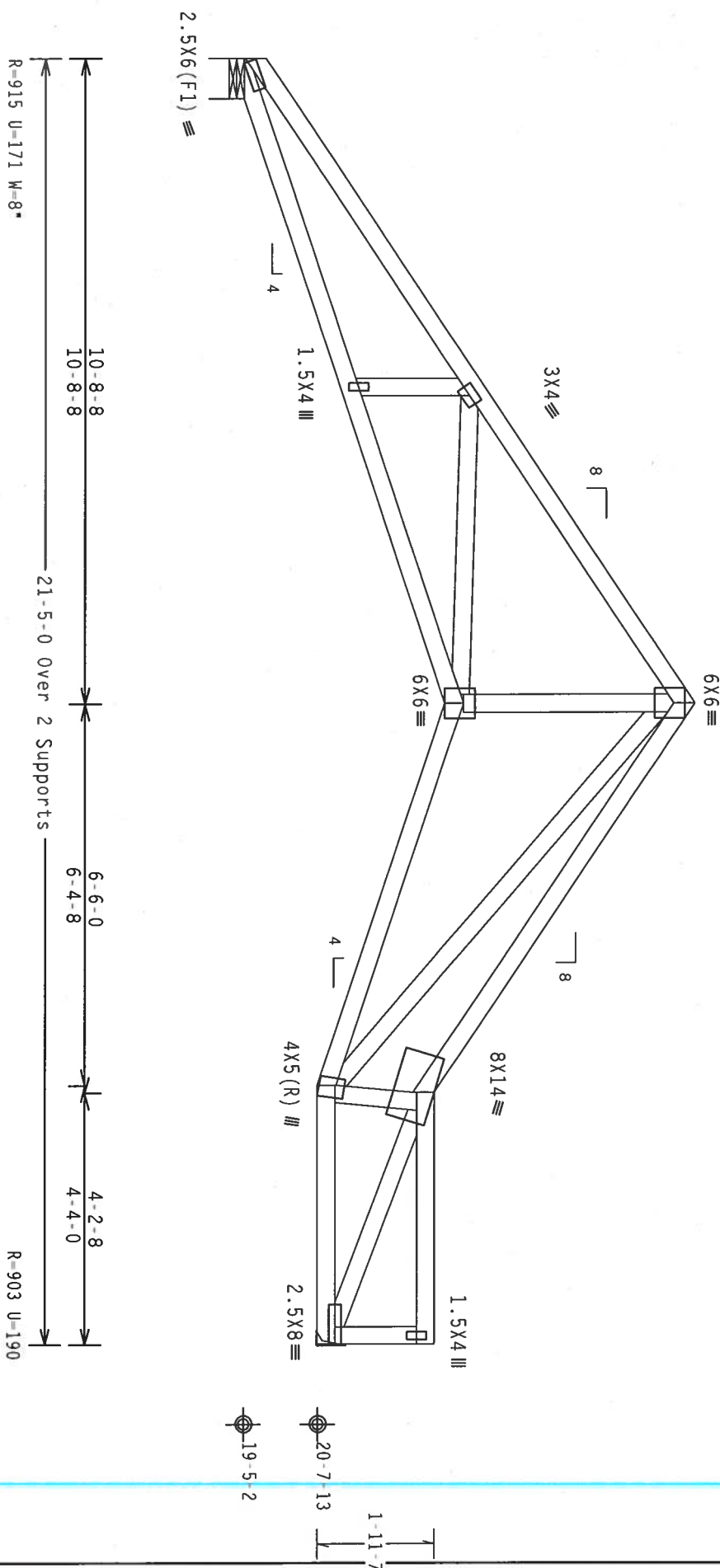


Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 23.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1W=1.00 GCPI(+/-)=0.18  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



PLT TYP. Wave

Design Cr1t: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

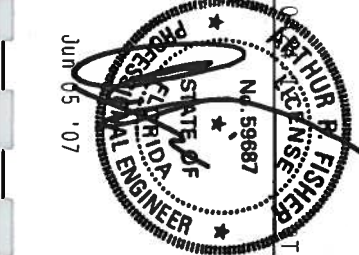
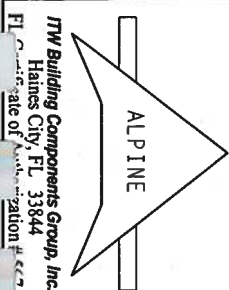
7.36.0

TY:1 FL/-/4/-/R/-

Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, 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 WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI. 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. ITW BCG DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AS) AND TPI. TRUSS PLATES EACH OF FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 2, 160C, 2, 160D, 2, 160E, 2, 160F, 2, 160G, 2, 160H, 2, 160I, 2, 160J, 2, 160K, 2, 160L, 2, 160M, 2, 160N, 2, 160O, 2, 160P, 2, 160Q, 2, 160R, 2, 160S, 2, 160T, 2, 160U, 2, 160V, 2, 160W, 2, 160X, 2, 160Y, 2, 160Z, 2. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 37920
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156124
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	17062
DUR.FAC.	1.25		
SPACING	24.0"		

JREF-	1T7Y8228203
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Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

(A) Continuous lateral bracing equally spaced on member.

110 mph wind, 23.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpi(+/-)=0.18



TY:1

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

Scale = .375" / Ft.

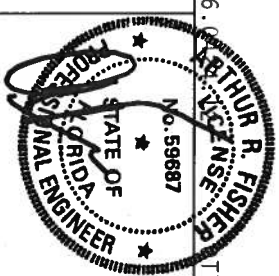
\*WARNING\* FRAMES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPT (TRUSS PRACTICE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 (4000 TRUSS COUNCIL OF AMERICA, 63000 ENTERPRISE LANE, MONTICELLO, MI 49351) 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 CEILING.

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

ALPINE

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

FL Certificate of Authorization # 667



TC LL	20.0 PSF	REF	R8228- 37921
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCSR8228 07156125
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17067
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

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

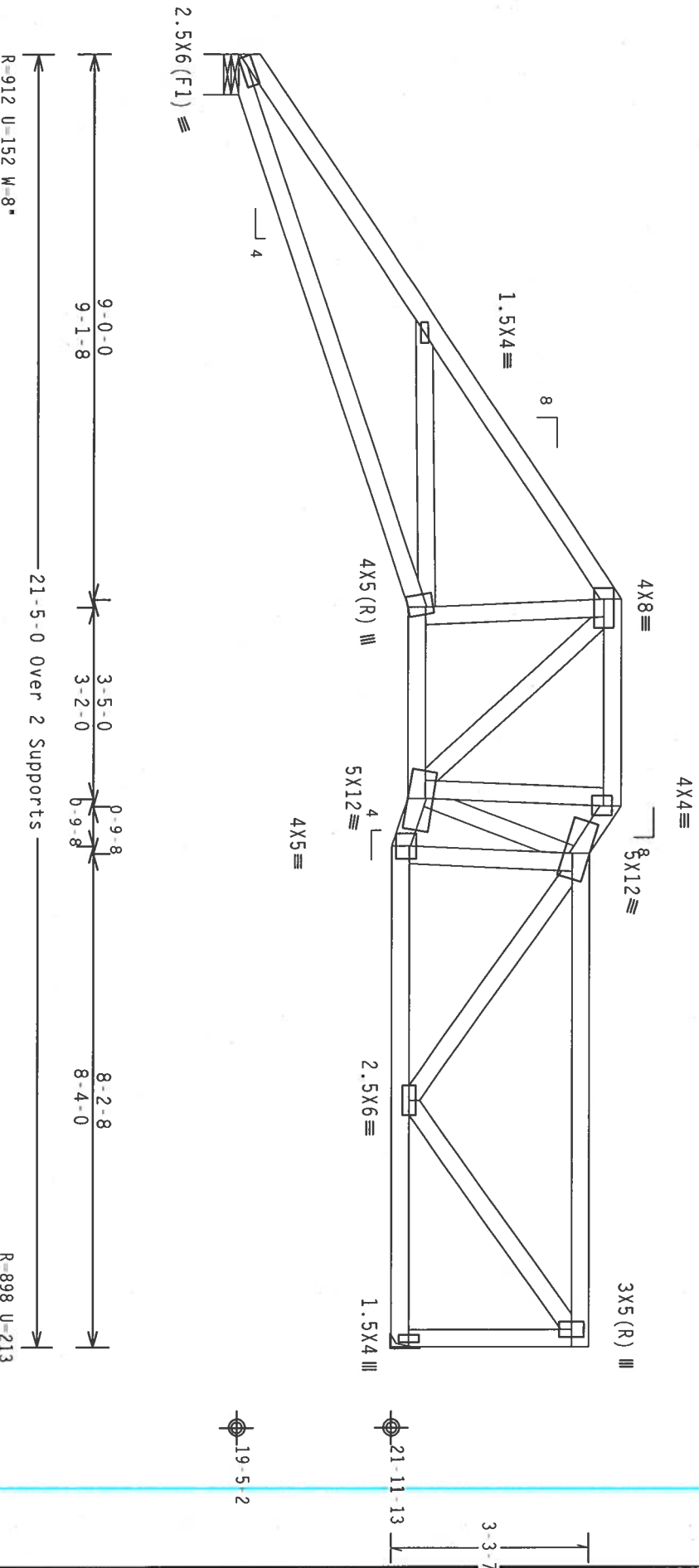
Wind reactions based on MMFRS pressures.

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

110 mph wind, 22.80 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $W=1.00$  gcpl(+/-)=0.18

Right end vertical not exposed to wind pressure.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.36.0

FL/-/4/-/R/-

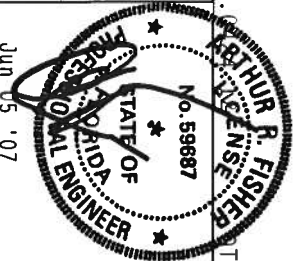
Scale = .375"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD INSTITUTE 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.

ALPINE

TW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 547

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI 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. TPI BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. TPI BCG CONNECTIONS ARE MADE OF 20/18/10GA (E/A/H/SS/VA) ASTM A653 GRADE 40/80 (W. A/FH/SS) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI BCG. TPI BCG SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS DESIGN SHOWN. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENTS BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 37922
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUSR8228 07156126
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 17072
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1778228203

110 mph wind, 22.13 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 gcpi(+/-)-0.18

Right end vertical not exposed to wind pressure.

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



QTY:1

Scale = .375" / Ft.

01  
ARTHUR R. FISHER  
LICENSE  
No. 59687  
★ ★ ★ ★ ★

SEE



Jul 15/07

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1

TC LL	20.0 PSF	REF	R8228- 37923
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156127
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17077
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	177Y8228203



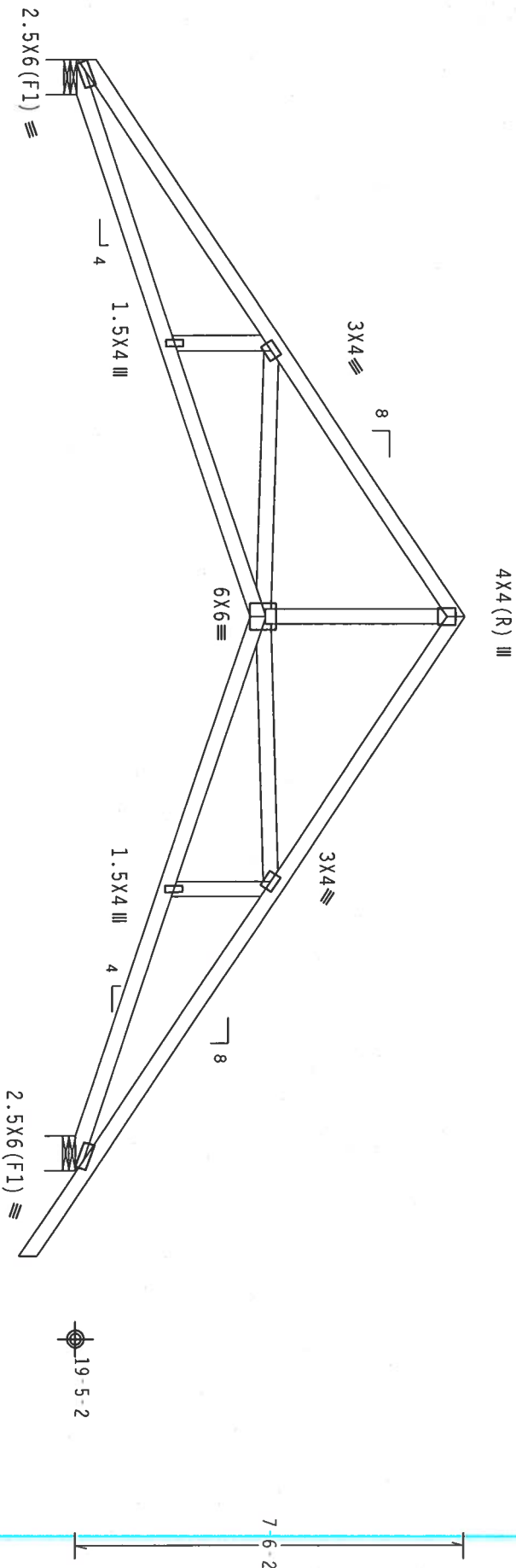


Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

110 mph wind, 22.81 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

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



10'-8'-8" 21'-5'-0" Over 2 Supports 10'-8'-8" 1'-8'-0" R-907 U-167 W-8" R-1023 U-205 W-8"

PLT TYP. Wave

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

7.36.0

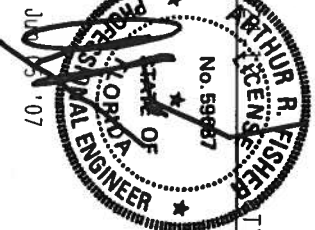
Scale = .3125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI, 11111 W. 11TH AVE., SUITE 312, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WICA (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. TIV 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. BY ACPA) AND TPI. TIV BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. TIV BCG CONNECTOR PLATES ARE MADE OF 20/10/16GA (CM/H/SS/VA) ASTM A653 GRADE 40/60 (4" R/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. FOR THE TRUSS COMPONENT MANUFACTURER'S QUALIFICATION AND RESPONSIBILITY. SOLELY ON THE BASIS OF THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

TIV Building Components Group, Inc.  
Haines City, FL 33844  
FL 33844  
ate of  
ation #



TC LL	20.0 PSF	REF	R8228- 37925
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156133
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	17122
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1778228203

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

: Stack Chord SC1 2x4 SP #2 Dense:  
: Stack Chord SC2 2x4 SP #2 Dense:

Truss spaced at 24.0" OC designed to support 1-4-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

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

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

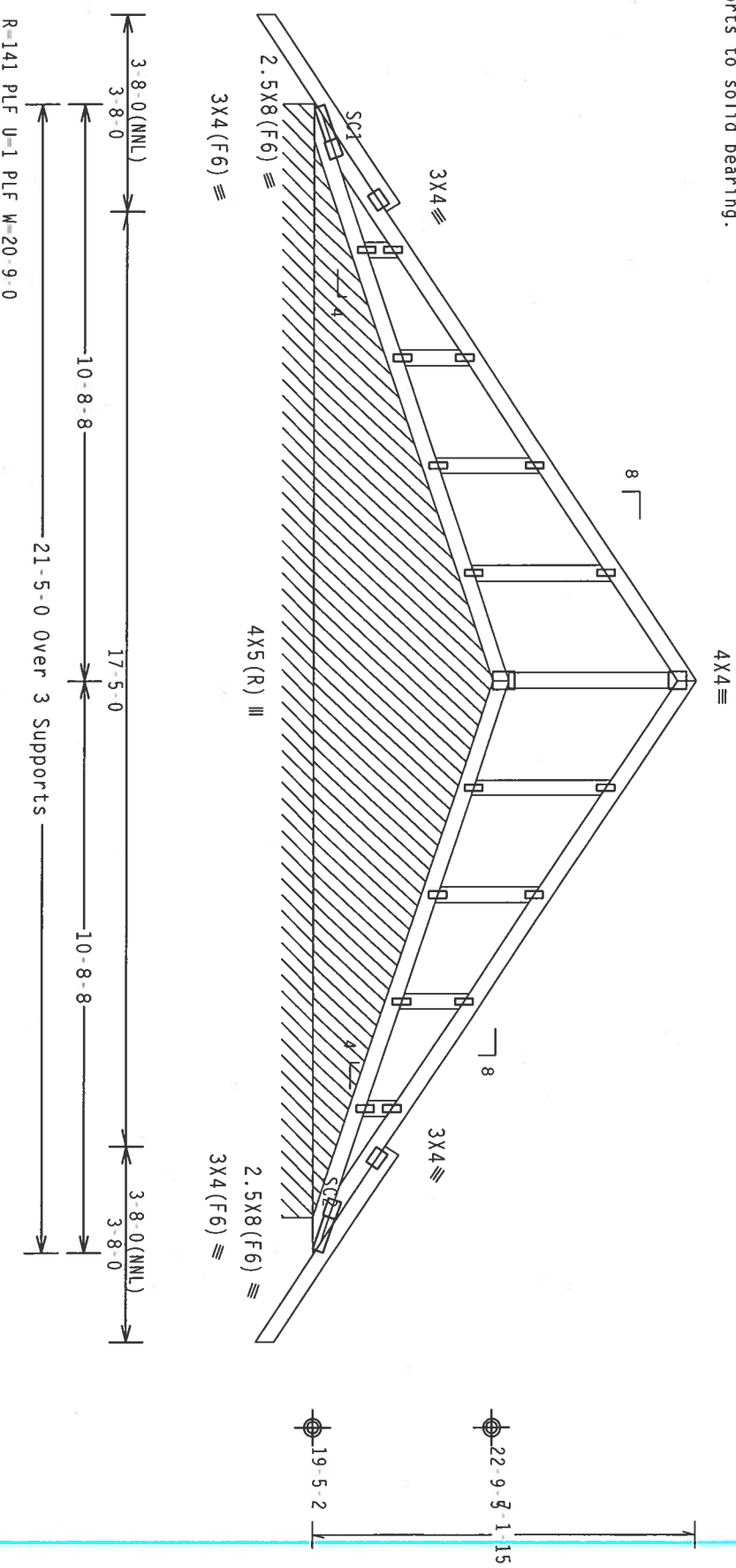
Shim all supports to solid bearing.

110 mph wind, 23.08 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.  $I_w=1.00$  GCpt(+/-)=0.18

Wind reactions based on MMFRS pressures.

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

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



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.04

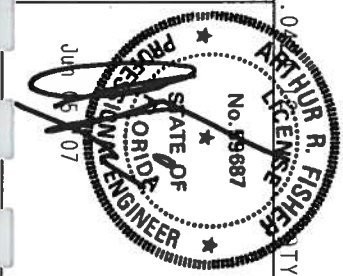
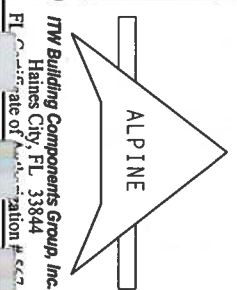
FL/-/4/-/R/-

Scale = .3125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 2100  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICK (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. TPI BCS, INC. SHALL NOT  
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH  
TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/RA) AND TPI.  
CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/RA) AND TPI.  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2,  
160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2,  
160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2. A SEAL ON THIS  
DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 37926
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156134
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	17127
DUR.FAC.	1.25		
SPACING	SEE ABOVE		

JREF- 1T7Y8228203

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

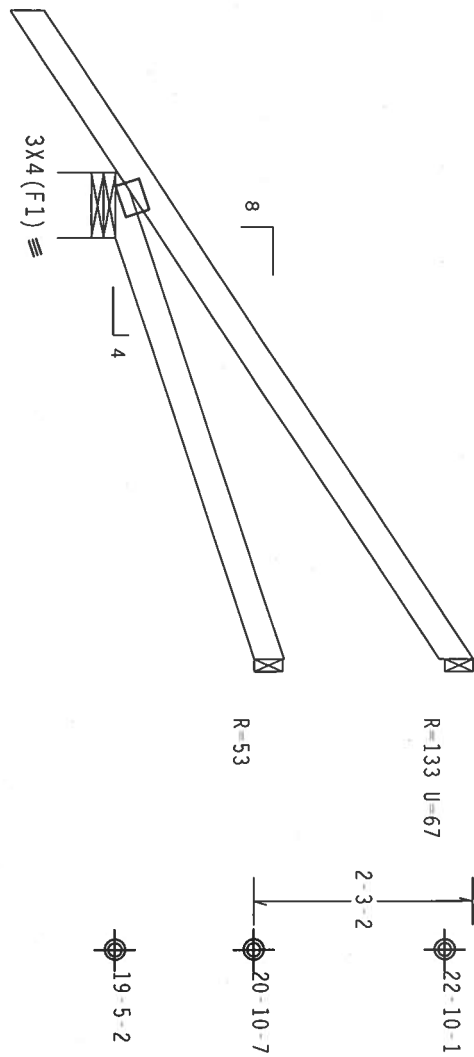
Wind reactions based on MWFRS pressures.

Shim all supports to solid bearing.

Provide (2) 0.162x3.5" 16d Common toe nails at Top Chord.  
Provide (2) 0.162x3.5" 16d Common toe nails at Bottom Chord.

110 mph wind, 20.91 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

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



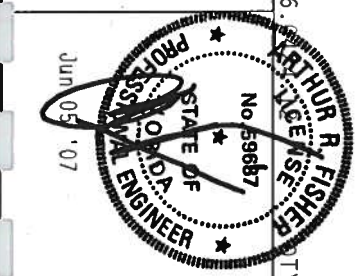
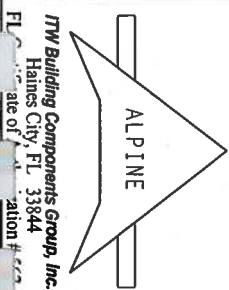
1-8-0  
5-0-0 Over 3 Supports  
R=353 U=36 W=8"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 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\*\* UNLESS A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITN 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. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITN BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASH 6653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 37927
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUSR8228 07156128
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SECON- 17081
DUR.FAC.	1.25	
SPACING	24.0"	

Scale = .5"/ft.

FL/-/4/-/R/-	JREF- 1T7Y8228Z03
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Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #1 Dense  
:lt Wedge 2x8 SP #1 Dense:

110 mph wind, 21.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18

Wind reactions based on MMFRS pressures.

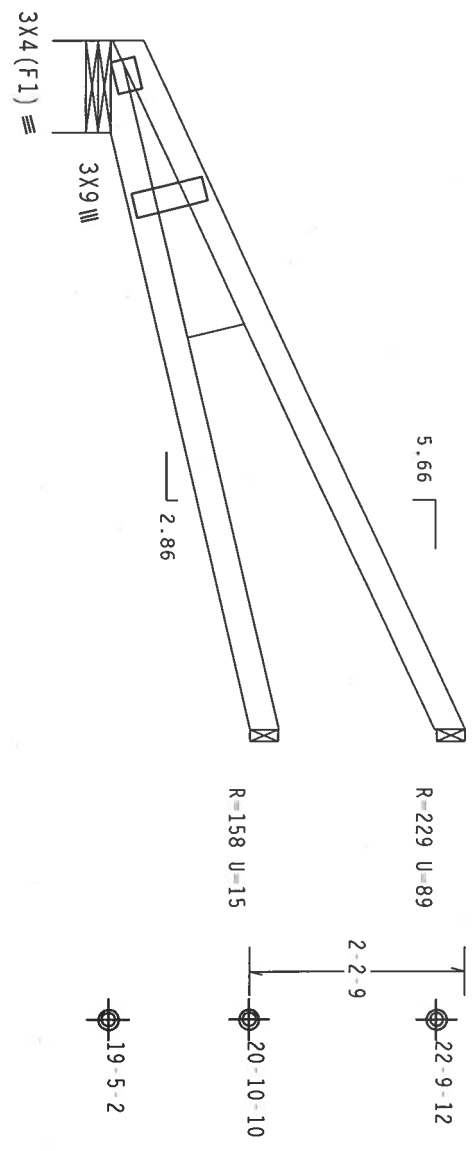
Shim all supports to solid bearing.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.  
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 62 PLF at 0.00 to 62 PLF at 7.07  
BC - From 21 PLF at 0.00 to 21 PLF at 7.07  
TC - 125 LB Conc. load at 4.31  
BC - 24 LB Conc. load at 1.48  
BC - 48 LB Conc. load at 4.31

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



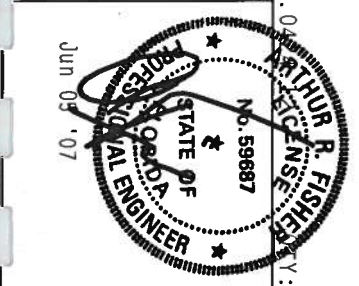
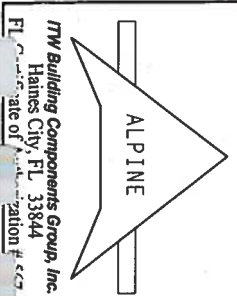
7-0-14 Over 3 Supports  
R=347 U=108 W=11.314"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL TRUSS COUNCIL OF AMERICA, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICK (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 BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. BY AFAPA AND TPI. THE BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W/AF/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMANENT AS OF TPI-2002 SEC.3. FOR THE A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 37929
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUSR8228 07156131
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 17096
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T7Y8228203

Scale =.5"/ft.

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

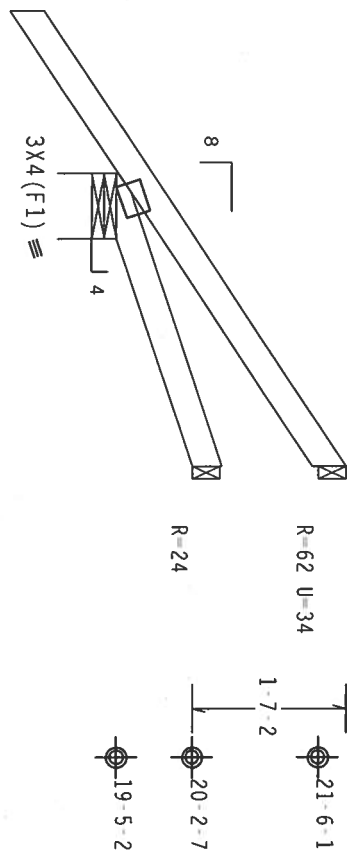
Wind reactions based on MMFRS pressures.

Shim all supports to solid bearing.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.  
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

110 mph wind, 20.24 ft mean hgt, ASCE 7-02, CLOSED bldg, Located  
anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC  
DL-5.0 psf,  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

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



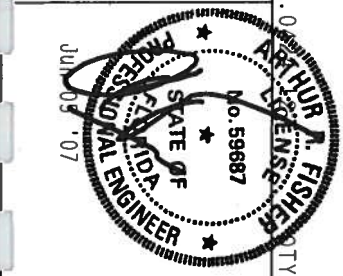
PLT TYP. Wave

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE PROPERLY SUPPORTED AND BRACED TO PREVENT BUCKLING. TRUSSES MUST BE PROTECTED FROM CORROSION BY AN ANTI-RUST TREATMENT. TRUSSES MUST BE PROTECTED FROM FIRE BY AN ANTI-FIRE TREATMENT. TRUSSES MUST BE PROTECTED FROM UV RADIATION BY AN ANTI-UV TREATMENT. TRUSSES MUST BE PROTECTED FROM OZONE BY AN ANTI-OZONE TREATMENT. TRUSSES MUST BE PROTECTED FROM ACID RAIN BY AN ANTI-ACID RAIN TREATMENT. TRUSSES MUST BE PROTECTED FROM SALINITY BY AN ANTI-SALINITY TREATMENT. TRUSSES MUST BE PROTECTED FROM POLLUTION BY AN ANTI-POLLUTION TREATMENT. TRUSSES MUST BE PROTECTED FROM WEATHER BY AN ANTI-WEATHER TREATMENT. TRUSSES MUST BE PROTECTED FROM THEFT BY AN ANTI-THEFT TREATMENT. TRUSSES MUST BE PROTECTED FROM VANDALISM BY AN ANTI-VANDALISM TREATMENT. TRUSSES MUST BE PROTECTED FROM TERRORISM BY AN ANTI-TERRORISM TREATMENT. TRUSSES MUST BE PROTECTED FROM NUCLEAR WEAPONS BY AN ANTI-NUCLEAR WEAPONS TREATMENT. TRUSSES MUST BE PROTECTED FROM CHEMICAL WEAPONS BY AN ANTI-CHEMICAL WEAPONS TREATMENT. TRUSSES MUST BE PROTECTED FROM BIOLOGICAL WEAPONS BY AN ANTI-BIOLOGICAL WEAPONS TREATMENT. TRUSSES MUST BE PROTECTED FROM SPACE WEAPONS BY AN ANTI-SPACE WEAPONS TREATMENT. TRUSSES MUST BE PROTECTED FROM TIME WEAPONS BY AN ANTI-TIME WEAPONS TREATMENT. TRUSSES MUST BE PROTECTED FROM GOD WEAPONS BY AN ANTI-GOD WEAPONS TREATMENT.

ALPINE

TW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 547



TC LL	20.0 PSF	REF R8228- 37930
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUSR8228 07156130
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEON- 17091
DUR.FAC.	1.25	
SPACING	24.0"	UREF- 1778228203

Scale =.5"/ft.

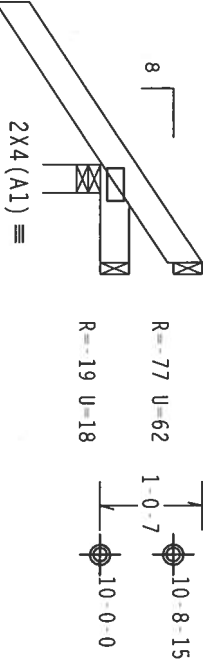
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.  
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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

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



1-8-0 Over 3 Supports

R=295 U=55 W=3.5"

PLT TYP. Wave

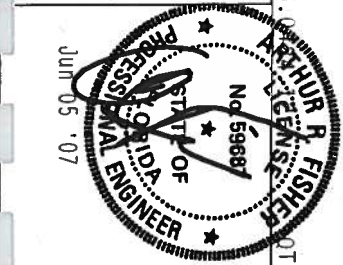
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

\*\*WARNING\*\* THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(2002) SHALL BE THE RESPONSIBILITY OF THE TRUSS FABRICATOR. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(2002) SHALL BE THE RESPONSIBILITY OF THE TRUSS FABRICATOR. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(2002) SHALL BE THE RESPONSIBILITY OF THE TRUSS FABRICATOR.

\*\*IMPORTANT\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(2002) SHALL BE THE RESPONSIBILITY OF THE TRUSS FABRICATOR. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(2002) SHALL BE THE RESPONSIBILITY OF THE TRUSS FABRICATOR.

ALPINE

TIV Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 557



TC LL	20.0 PSF	REF R8228 - 37931
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUR8228 07156117
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 17131
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 177Y8228Z03

Scale = .5"/ft.



(7-146--Fill in later DENNARD --, \*\* - HJ5)

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{Cp1}(+/-)=0.18$

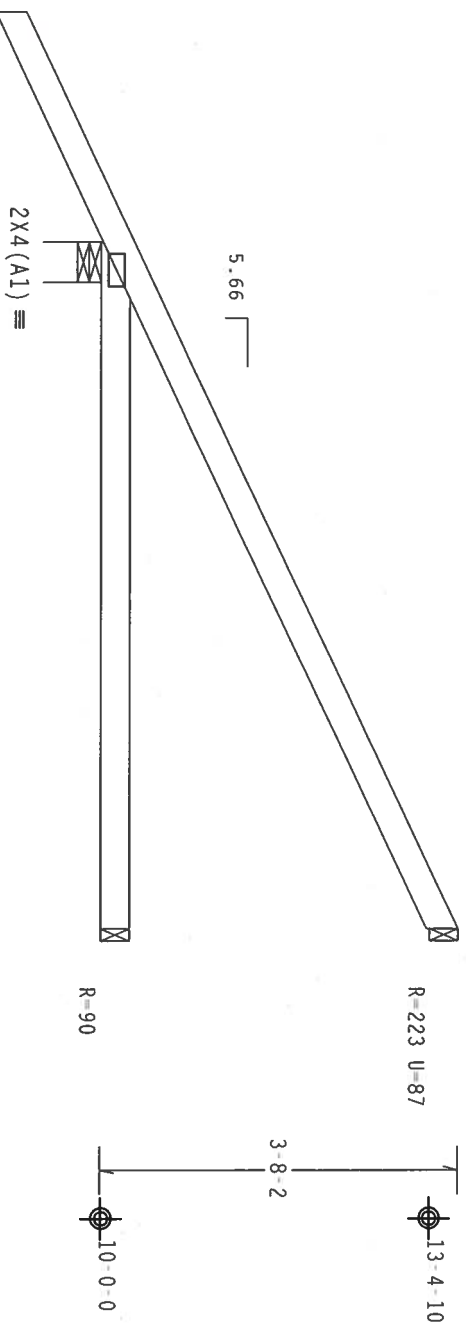
Wind reactions based on MMFRS pressures.

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

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.  
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

SPECIAL LOADS

TC - From	62 PLF at -2.36 to 62 PLF at 7.07
BC - From	4 PLF at -2.36 to 4 PLF at 0.00
TC - From	20 PLF at 0.00 to 20 PLF at 7.07
TC - 155 LB Conc. Load at	1.48
TC - 119 LB Conc. Load at	4.31
BC - 39 LB Conc. Load at	1.48
BC - 42 LB Conc. Load at	4.31



2-4-5

7-0-14 Over 3 Supports  
R=391 U=229 W=4.95"

PLT TYP. Wave

Design Cr1t: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.36.0

FL/-/4/-/R/-

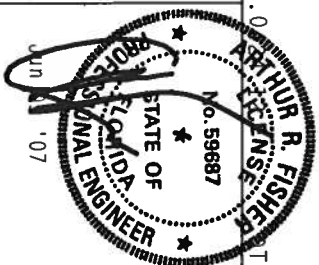
Scale = .5"/ft.

**\*\*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 WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization #547



TC LL	20.0 PSF	REF R8228-37932
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUSR8228 07156118
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 17145
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T7Y8228203

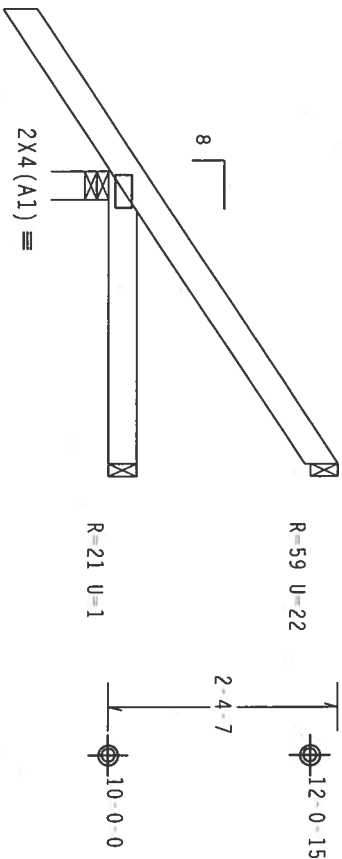
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.  
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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

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



1-8-0

3-0-0 Over 3 Supports

R=287 U=21 W=3.5\*

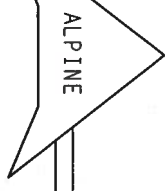
PLT TYP. Wave

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

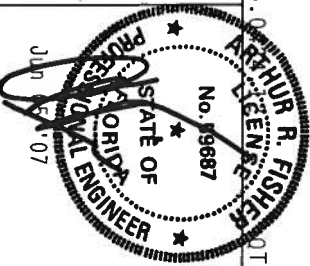
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6200 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. TPI BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. TPI BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. UNLESS OTHERWISE NOTED, ALL PLATES SHALL BE PER ANCHOR AND OF TPI-2002 SEC. 3. FOR THE TRUSS COMPONENT DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 547



QTY: 1

FL/-/4/-/R/-

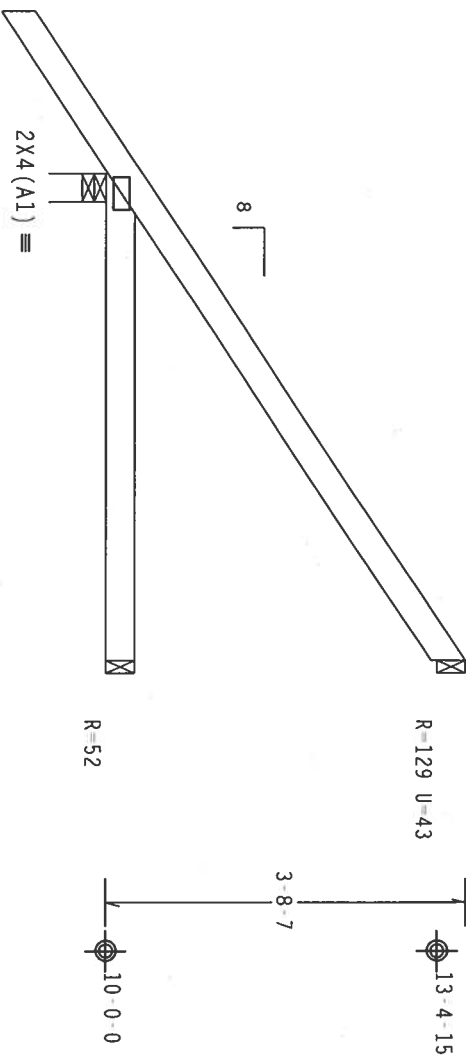
Scale = .5"/ft.

TC LL	20.0 PSF	REF R8228- 37933
TC DL	10.0 PSF	DATE 06/05/07
BC DL	10.0 PSF	DRW HCUSR8228 07156116
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEON- 17136
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T7Y8228203

Wind reactions based on MWFRS pressures.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.  
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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



180°

5-0-0 Over 3 Supports

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0) \quad 7.36.04$ 

7.36.0

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

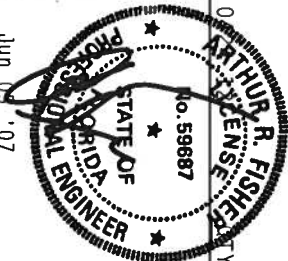
Scale = .5" / Ft.

**WARNING:** THESE BUILDING EXTERIOR CASES IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND PRACTICE REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND NICK (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMANCE OF THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
 11000 W. 38th St.  
 Overland Park, KS 66210  
 Tel: 913-666-3844

Haines City, FL 33844  
FL Certificate of Authorization # 677

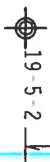


TC LL	20.0 PSF	REF	R8228- 37934
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156115
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	17140
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T7Y8228Z03

IMHO UWB PREPARED FROM LUMINICK INPUI (LUAUS & UIMENIUNIS) SUBMILED BY IKUUS MRK.

110 mph wind, 22.13 ft mean hgt., ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18

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



1-8-0

R-852 U-163 W-8"

Scale = .375"/Ft.



TC LL	20.0 PSF	REF	R8228 - 37935
TC DL	10.0 PSF	DATE	06/05/07

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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[illegible]

101. LD: 40.0 PSF SEUN - 1/043

DUR.FAC.	1.25
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SPACING 24.0"      JREF: 1T7Y8228703

SPACING 24.0" JREF - 11/198228203

2011/12 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 103



RESEARCH REPORT NO. 100 (1960) PREPARED FOR THE NATIONAL ACADEMY OF SCIENCES

110 mph wind, 22.13 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, Cat II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpi (+/-) 0.18

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



TY:1 FL/-/4/-/-/R/-

Scale = .375" / Ft.

TC LL	20.0 PSF	REF	R8228 - 37936
TC DL	10.0 PSF	DATE	06/05/07

[illegible]

BU LL	U.O PST	HC-ENG ILE/AT
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TOT.LD.	40.0 PSF	SEON - 17047
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0100 1 2E

[illegible]

SPALING 24.0  
JREF - 11/18228203

TC LL	20.0 PSF	REF	R8228- 37936
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156136
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SECN-	17047
DUR.FAC.	1.25		
SPACING	24.0 "	JREF-	1T7Y8228Z03

Top Chord 2x4 SP #2 Dense  
Bot Chord 2x6 SP #1 Dense  
Webs 2x4 SP #3 :W5 2x4 SP #2 Dense:

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at -1.67 to 64 PLF at 8.67  
TC - From 64 PLF at 8.67 to 64 PLF at 17.33  
BC - From 5 PLF at -1.67 to 5 PLF at 0.00  
BC - From 21 PLF at 0.00 to 21 PLF at 8.67  
BC - From 21 PLF at 8.67 to 21 PLF at 17.33  
BC - 2190 LB Conc. Load at 5.06  
BC - 903 LB Conc. Load at 7.06, 13.06  
BC - 898 LB Conc. Load at 9.06  
BC - 902 LB Conc. Load at 11.06  
BC - 905 LB Conc. Load at 15.06

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

2 COMPLETE TRUSSES REQUIRED

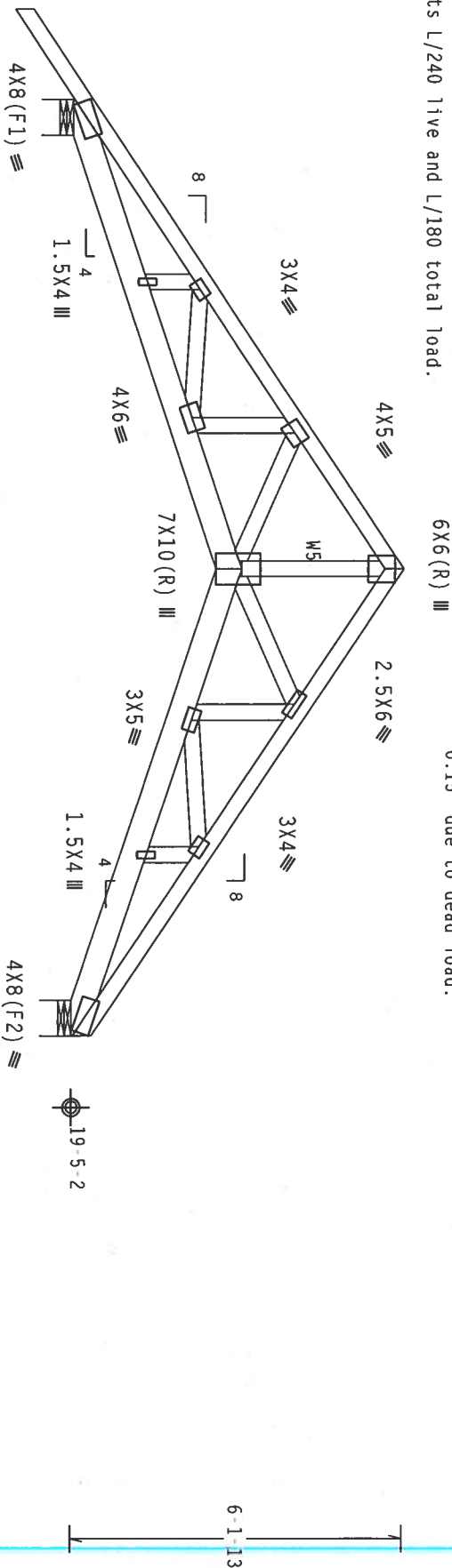
Nailing Schedule: (10d Box or Gun (0.128"x3", min.) nails)

Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @3.75" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 22.13 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $Gcpi(+/-)=0.18$

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.14" due to live load and 0.15" due to dead load.



8'-8'-0" 17'-4'-0" Over 2 Supports 8'-8'-0"  
R=4037 U=990 W=8"  
R=4254 U=945 W=8"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.36.0

Scale = .3125"/ft.

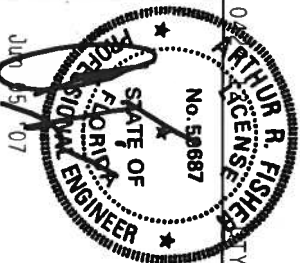
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST BUILDING COMPONENT SAFETY (FROM THE NATIONAL TRUSS COUNCIL OF AMERICA, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 100 ENTERPRISE LANE, MANTON, MI 52719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (K/H/SS/K) ASTM A653 GRADE 40/60 (K, K/H,SS) 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-1 2002 SEC.3.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ITW Building Components Group, Inc.  
Haines City, FL 33844  
Date of Revision #

ALPINE



TC LL	20.0 PSF	REF	R8228- 37937
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCSR8228 07156137
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	17205
DUR.FAC.	1.25		
SPACING	See above	JREF	177Y8228Z03

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

Truss spaced at 24.0" OC designed to support 1-4-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

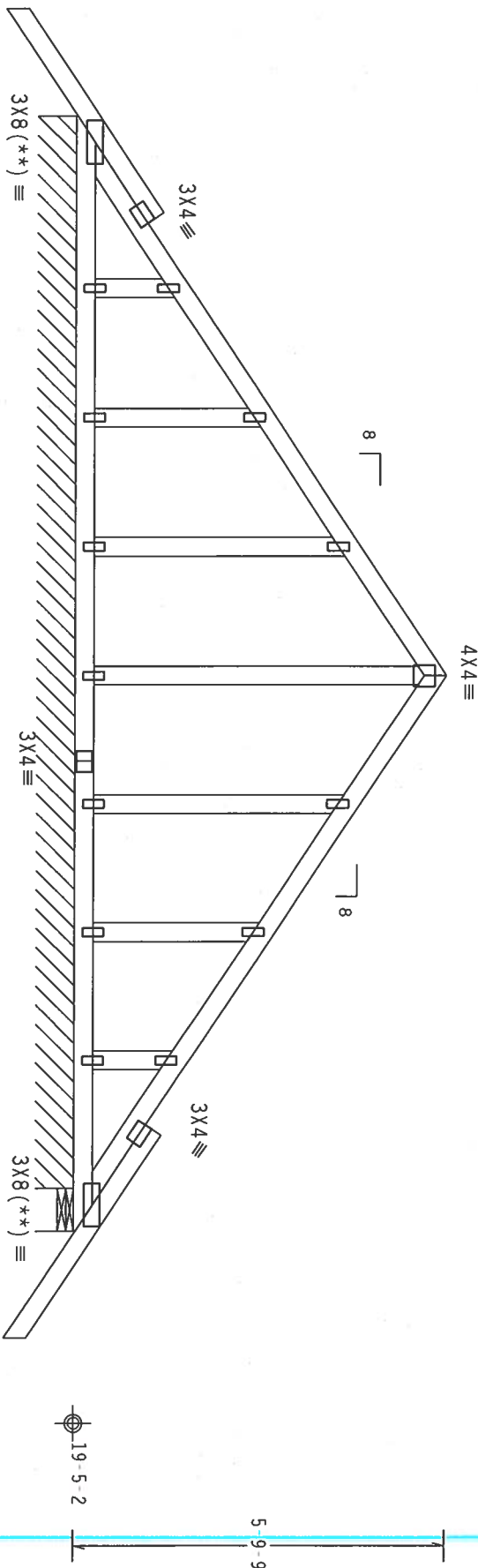
(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 21.96 ft mean hgt., ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCP1(+/-)=0.18

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

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

NOTE: The Project Engineer shall provide for endwall stability per section 2304.3.4.2 of the 2004 Florida Building Code. The top of the wall below this truss shall be braced as specified by the Project Engineer.. This truss will not provide lateral support of the endwall.



17'-4-0 Over 2 Supports

7'-0-1

7'-0-1

17'-4-0

R=125 PLF U=29 PLF W=16-8-0

R=462 U=45 W=8"

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.36.0$ 

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

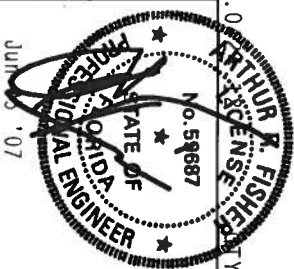
Scale = .375"/Ft.

**WARNING:** THESE TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPCT (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, MI, 48139, 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 CEILING.

ALPINE

**ITW Building Components Group, Inc.**

FL 2000 State of Florida Organization # 517



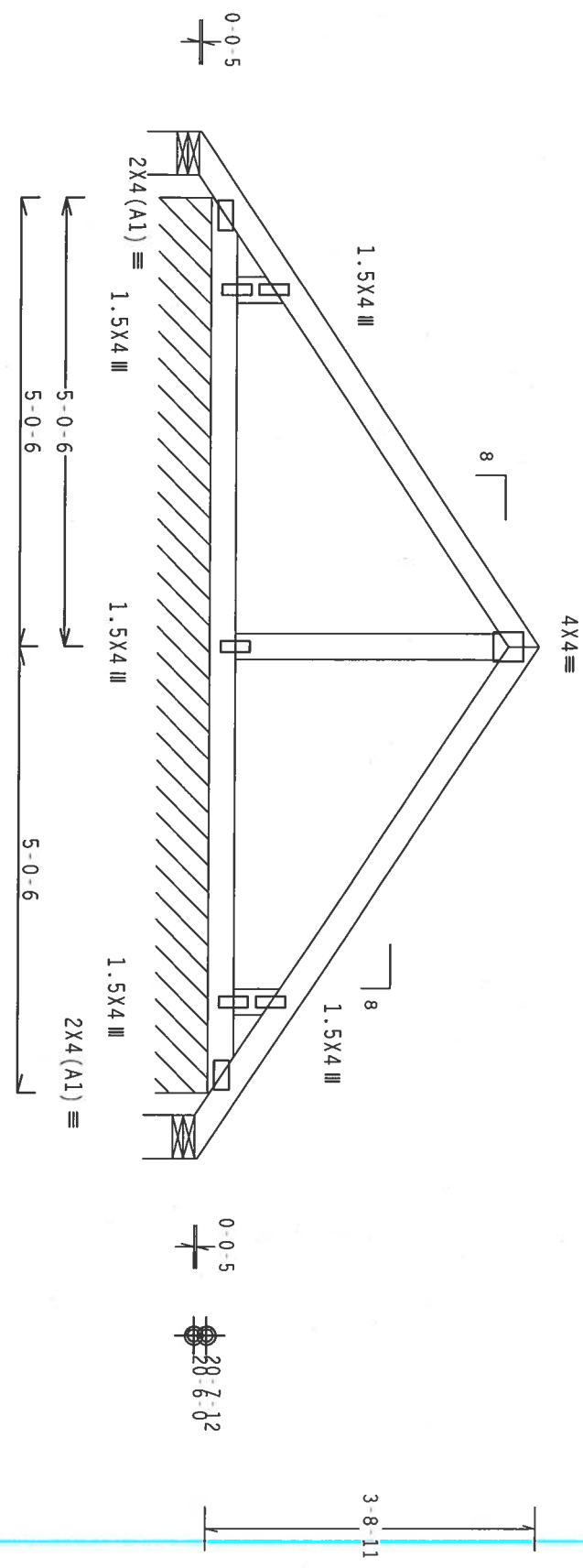
TC LL	20.0 PSF	REF	R8228- 37938
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156138
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17214
DUR.FAC.	1.25	REV	
SPACING	SEE ABOVE	JREF-	1T7Y8228Z03

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

110 mph wind, 22.45 ft mean hgt, ASCE 7-02, CLOSED bldg,  
Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=1.2 psf. 1w=1.00 GCPI (+/-)=0.18

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback  
details. Portion of truss under piggyback is to be  
braced @ 24" OC unless otherwise specified.

SPECIAL LOADS  
-----  
LUMBER DUR.FAC. 1.25 / PLATE DUR.FAC. 1.25  
TC - From 64 PLF at -0.74 to 64 PLF at 10.80  
BC - From 4 PLF at -0.74 to 4 PLF at 10.80  
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.  
Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

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

7.25

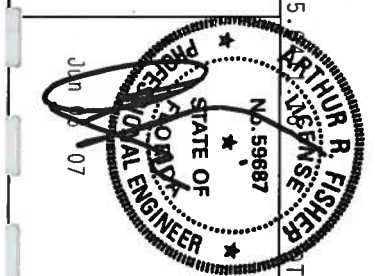
FL/-4/-/-R/-

Scale = 5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE BUILDING SAFETY 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. ITM 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 A BRACING OF TRUSSES. DESIGN COMPROMISES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ITM BCG CONNECTIONS ARE MADE OF 20/18/16GA (W/V/SS) ASH 4653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOR AND 3.0 OF 11.2002 SEC.2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING DESIGN. THE SEAL OR THIS 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 Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Florida Registration # 677



TC LL	20.0 PSF	REF	R8228-37939
TC DL	10.0 PSF	DATE	06/05/07
BC DL	10.0 PSF	DRW	HCUSR8228 07156140
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	95928 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T7Y8228203



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

Truss spaced at 24.0" OC designed to support 1-4-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Refer to Dwg PIGBACKA0207 or PIGBACKB0207 for piggyback details. Portion of truss under piggyback is to be braced @ 24" oc unless otherwise specified.

SPECIAL LOADS  
 (LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)  
 TC - From 64 PLF at -0.74 to 64 PLF at 5.03  
 TC - From 64 PLF at 5.03 to 64 PLF at 10.80  
 BC - From 4 PLF at -0.74 to 4 PLF at 10.80

Wind reactions based on MMFRS pressures.

See DWGS A11030EE0207 & GBLLET1M0207 for more requirements.

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



PLT TYP. Wave

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

7.36.04

FL/14/1/R/

Scale = .5" / Ft.

**WARNING:** THESE BUILDING EXISTENCE CARE INSTRUCTIONS, INCLUDING SHIPPING, INSTALLING AND PACKING, REFER TO ONE SPECIFIC BUILDING COMPONENT (S). FOR ADDITIONAL INFORMATION, CONSULT THE TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COMPANY) OF AMERICA, 6300 ENTERPRISE LANE, MIDLOTHIAN, VA, 55119. FOR SAFETY PRACTICES REFER TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**

FLORIAN, JAMES CITY, VA 22044  
ate of Administration # 677

OTY:1

FL/4/R/

Scale = .5" / Ft.

11/10/2004

TC LL 20.0

REF R8228 - 37940

★  
\*\*\*\*\*

TC DL 10.0

DATE 06/05/07

**7**

BC	DL	10.0
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DRW HCUSR8228 071561

SECRET

BC 11 00

HC-ENG TCE/AE

1

DO	0.0
FO	4.0

INC LING ICE/AL

101.LD. 40.0

SEQN - 1/165

DUR.FAC. 1.25

1

SPACING SEE ABOVE

JREF - 1T7Y8228Z03

# CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE 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.

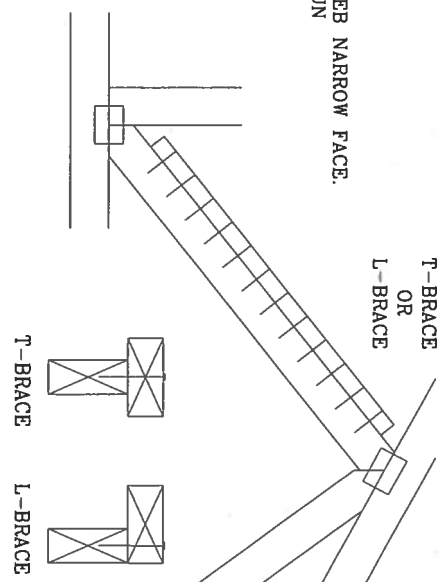
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

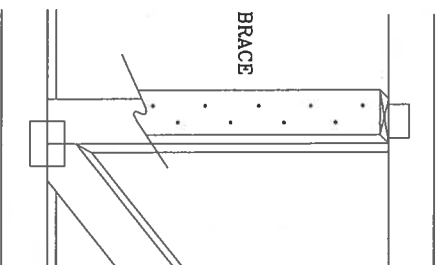
## T-BRACING OR L-BRACING:

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



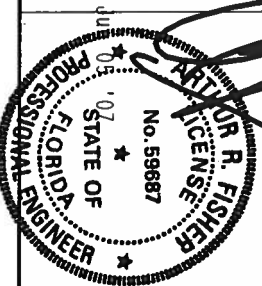
THIS DRAWING REPLACES DRAWING 579.640



TRUSS BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA. 22314 AND VITA CWOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, HANSON, VI 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.

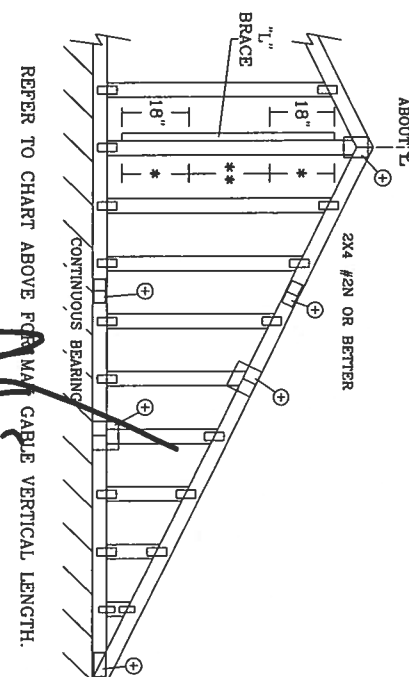
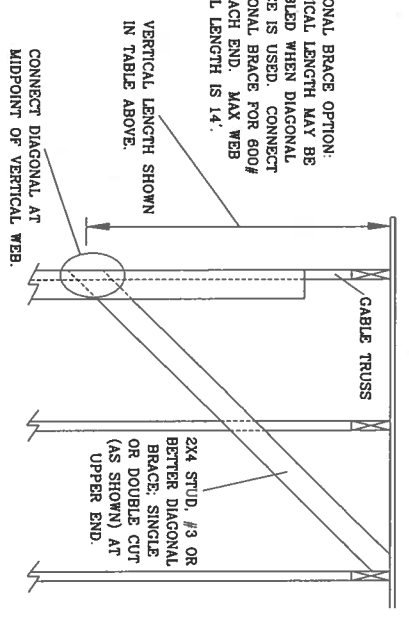
\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. TPI, BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/RPA) AND TPI. TYPICAL CONNECTION PLATES ARE MADE OF 2018/1604 (A/R/55X) WITH 4053 GRADE 40/60 (A/R/55) DESIGN. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE TPI DESIGN. THE TPI DESIGN IS A DESIGN POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FURNISHED BY CH SHALL BE PER ANNEX A3 OF TPI 1-2002 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.



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	BCLBSUB0207
BC LL	PSF	ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

# MAX GABLE VERTICAL LENGTH

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



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

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

BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SPRUCE-PINE-FIR	HEM-FIR
#1 / #2 STANDARD	#2 STUD
#3 STUD	STANDARD
GROUP B:	
DOUGLAS FIR-LARCH	DOUGLAS FIR-LARCH
#1 STUD	#1 STUD
STANDARD	STANDARD

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TO 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' 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 8' O.C. BETWEEN ZONES.

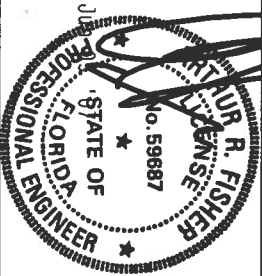
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.



TRUSS BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

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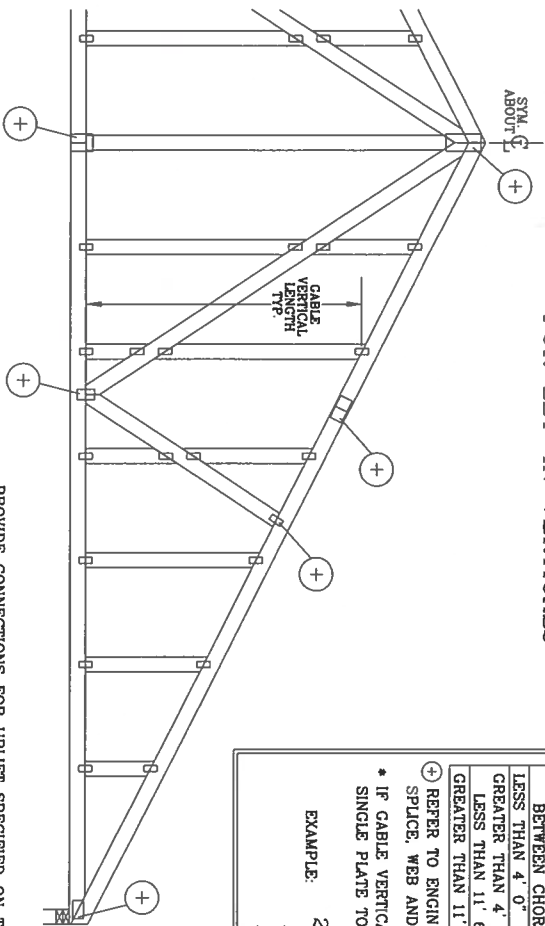
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MAX. TOT. LD. 60 PSF	REF ASCE 7-02-CAB11015
MAX. SPACING 24' 0"	DATE 2/23/07
	DRWG A11015E0207
	-ENG



# CABLE DETAIL FOR LET-IN VERTICALS

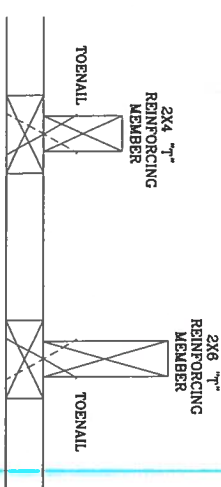


CABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*	
LESS THAN 4' 0"	1X4 OR 2X3	2X6	
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X6	
GREATER THAN 11' 6"	2.5X4	2.5X6	

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

EXAMPLE: 2X4 2X4 2X8

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



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

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

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	40 %
30 FT	2x6	0 %	20 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	10 %	20 %
70 MPH	2x4	10 %	30 %
30 FT	2x6	10 %	30 %

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

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

HAND DRIVEN NAILS:

10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS

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

GUN DRIVEN NAILS:

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

(4) TOENAILS IN TOP AND BOTTOM CHORD.

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

ASCE 7-93 CABLE DETAIL DRAWINGS

A11015EN0207, A10015EN0207, A09015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A07030EN0207

ASCE 7-98 CABLE DETAIL DRAWINGS

A13015EC0207, A12015EC0207, A10115EC0207, A08615EC0207, A13030EC0207, A12030EC0207, A10030EC0207, A08630EC0207

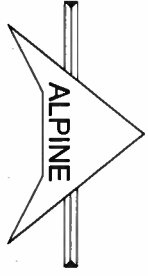
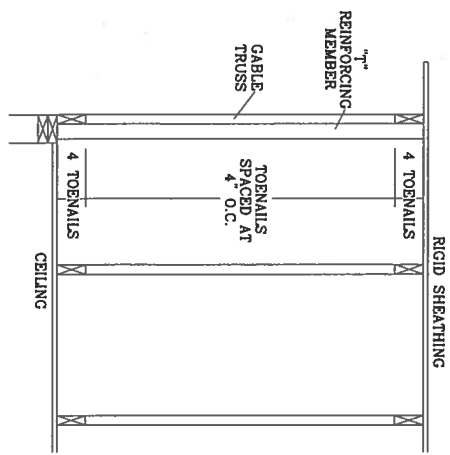
ASCE 7-02 CABLE DETAIL DRAWINGS

A13015EC0207, A12015EC0207, A10115EC0207, A08615EC0207, A13030EC0207, A12030EC0207, A10030EC0207, A08630EC0207

ASCE 7-05 CABLE DETAIL DRAWINGS

A13015EC0207, A12015EC0207, A10115EC0207, A08615EC0207, A13030EC0207, A12030EC0207, A10030EC0207, A08630EC0207

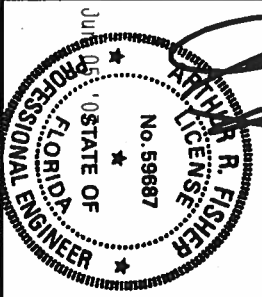
SEE APPROPRIATE ALPINE CABLE DETAIL (ASCE OR SBCI WIND LOAD) FOR MAXIMUM UNREINFORCED CABLE VERTICAL LENGTH.



ITW BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

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THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035	REF	LET-IN VERT
	DATE	2/23/07
	DRWG	GBLETTIN0207
	ENG	DJ/KAR
MAX TOT. LD. 60 PSF		
DUR. FAC. ANY		
MAX SPACING 24.0"		



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

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

GROUP B:

HDM - FIR

#1
#2

SOUTHERN PINE

DOUGLAS FIR - LARCH

#1
#2

#1 & BTR

#1
----

Professional Engineer Seal for Arthur R. Fisher, State of Florida, License No. 59687, dated June 05, '07.

REF	ASCET-02-CABI11030
DATE	2/23/07
DRWG	A11030EEO207
-ENG	
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

100. MPH WIND, 30.00 FT MEAN HGT. ASCE 7-02 OR 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.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK C ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

BO MPH WIND, 30.00 FT. MEAN HGT. SBC.  
ENCLOSED BLDG. LOCATED ANYWHERE IN ROOF  
WIND TC DL=5.0 PSF. WIND BC DL=5.0 PSF.  
MUST BE ADEQUATLY BRACED BY SHEATHING C

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98,  
CLOSED BLDG, LOCATED ANYWHERE IN ROOF CAT II,  
EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.  
PROVIDE DIAGONAL BRACING OR OTHER SUITABLE.

PIGGBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.

\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5")  
OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

DETAIL D

FLAT TO BRACING PER ENGINEERS SEALED DESIGN

FLAT TOP CHORD  $\leq 20$

Dimensions: 4', 2', 2', 2', 4'

PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

CAP TRUSS TENSIONED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRUSS PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 1607L FOR TRUSS INFORMATION.

FLAT TOP CHORD  $\leq 30^\circ$ 

IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.

(4) 8d COMMON NAILS (0.131"X2.5")

8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 8d COMMON NAILS PER GUSSET, (4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

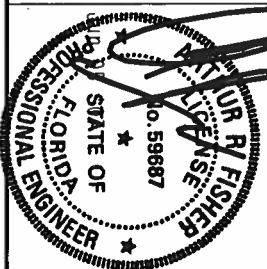


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**POMPAHO BEACH, FLORIDA**

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2. **IMPORTANT:** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV 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. DESIGN CONTRACTOR WITH TPI, OR APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA-90) AND TPI.

3. **WOOD CONNECTOR PLATES ARE MADE BY:** ED/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W/K/A/SS) DESIGN POSITION PER DRAWINGS 1604-Z. PER INSPECTION OF TRUSSES FURNISHED TO THE PER ANNEX A3 OF TPI 1-8002 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.



TC LL	PSF	REF	PIGCYBACK
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	PIGBACKA0207
BC LL	PSF	-ENG	DLJ/KAR
TOT. LD. MAX 60 PSF			
DUR. FAC. 1.15			
SPACING 24.0"			

TOP CHORD 2X4 #2 OR BETTER  
BOT CHORD 2X4 #2 OR BETTER  
WEBS 2X4 #3 OR BETTER

PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

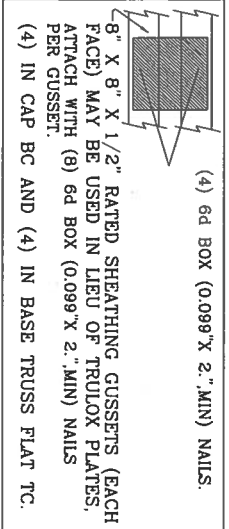
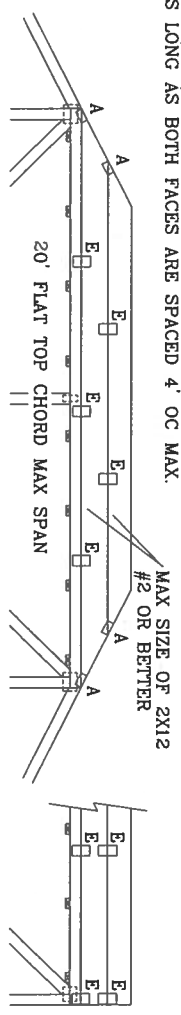
ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, ASCE 7-02 OR ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF  
110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF  
WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E\*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



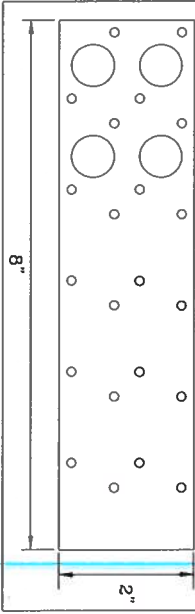
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC.

\* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



\* ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

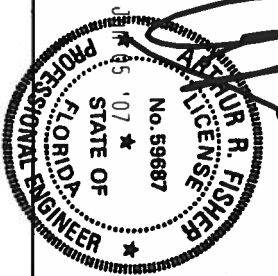
THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045



TW BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

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MAX LOADING	REF	PIGGYBACK
55 PSF AT	DATE	2/23/07
1.33 DUR. FAC.	DRWG	PIGBACKB0207
50 PSF AT	ENG	DLJ/KAR
47 PSF AT		
1.15 DUR. FAC.		
SPACING		24.0"