

DATE 01/17/2008

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000026633

|                               |                                                                                       |                                |                   |
|-------------------------------|---------------------------------------------------------------------------------------|--------------------------------|-------------------|
| APPLICANT                     | MATTHEW C. DOWLING                                                                    | PHONE                          | 305.797.0078      |
| ADDRESS                       | POB 5740                                                                              | KEY WEST                       | FL 33045          |
| OWNER                         | MATTHEW & NANCY DOWLING                                                               | PHONE                          | 305.79.0078       |
| ADDRESS                       | 8853 SW SR 247                                                                        | LAKE CITY                      | FL 32024          |
| CONTRACTOR                    | MATTHEW DOWLING                                                                       | PHONE                          | 305.797.0078      |
| LOCATION OF PROPERTY          | 90-W TO SR. 247-S, TL TO 12.50 MILES ON THE LEFT SIDE, NEXT PROPERTY PAST GREEN GATE. |                                |                   |
| TYPE DEVELOPMENT              | SFD/UTILITY                                                                           | ESTIMATED COST OF CONSTRUCTION | 170800.00         |
| HEATED FLOOR AREA             | 3416.00                                                                               | TOTAL AREA                     | 4890.00           |
|                               |                                                                                       | HEIGHT                         | 16.30             |
|                               |                                                                                       | STORIES                        | 1                 |
| FOUNDATION                    | CONC                                                                                  | WALLS                          | FRAMED            |
|                               |                                                                                       | ROOF PITCH                     | 5'12              |
|                               |                                                                                       | FLOOR                          | CONC              |
| LAND USE & ZONING             | A-3                                                                                   | MAX. HEIGHT                    | 35                |
| Minimum Set Back Requirments: | STREET-FRONT                                                                          | 30.00                          | REAR 25.00        |
|                               |                                                                                       | SIDE                           | 25.00             |
| NO. EX.D.U.                   | 0                                                                                     | FLOOD ZONE                     | XPS               |
|                               |                                                                                       | DEVELOPMENT PERMIT NO.         |                   |
| PARCEL ID                     | 06-5S-16-03471-006                                                                    | SUBDIVISION                    | Matthew C Dowling |
| LOT                           | BLOCK                                                                                 | PHASE                          | UNIT              |
|                               |                                                                                       | TOTAL ACRES                    | 5.01              |

|                     |                                             |                             |                            |
|---------------------|---------------------------------------------|-----------------------------|----------------------------|
| Culvert Permit No.  | Culvert Waiver                              | Contractor's License Number | Applicant/Owner/Contractor |
| FDOT-PERMIT         | 07-0964                                     | BLK                         | JTH N                      |
| Driveway Connection | Septic Tank Number                          | LU & Zoning checked by      | Approved for Issuance      |
|                     |                                             |                             | New Resident               |
| COMMENTS:           | FLOOR ONE FOOT ABOVE THE ROAD. NOC ON FILE. |                             |                            |
|                     |                                             | Check # or Cash             | 2614                       |

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 \$   | 855.00 | CERTIFICATION FEE \$ | 24.45 | SURCHARGE FEE \$ | 24.45  |
| 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        | 978.90 |
| INSPECTORS OFFICE        |        | CLERKS OFFICE        |       |                  |        |

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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



CHARGE  
- OLD RATE - ON HEATED  
Columbia County Building Permit Application

For Office Use Only Application # 0712-28 Date Received 12/10/07 By G Permit # 26633  
Zoning Official BLK Date 18.12.07 Flood Zone XAS FEMA Map # N/A Zoning A-3  
Land Use A-3 Elevation N/A MFE Left River N/A Plans Examiner OKJH Date 1-3-08  
Comments FL DOT Permit # 2007-A-292-44 Driveway 247  
☒ NDC ☒ EH ☒ Deed or PA ☒ Site Plan ☒ State Road Info ☐ Parent Parcel #  
☐ Dev Permit # ☐ In Floodway ☐ Letter of Authorization from Contractor  
☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Name Authorized Person Signing Permit Matthew C. Dowling Sr. Fax \_\_\_\_\_ Phone 305-797-0078  
Address P.O. Box 5740 Key West, FL 33045  
Owners Name Matthew C. & Nancy M. Dowling Phone 305-797-0078  
911 Address 8853 SW SR 247, Lake City FL 32024  
Contractors Name Owner Builder Phone 305-797-0078  
Address P.O. Box 5740 Key West, FL 33045  
Fee Simple Owner Name & Address N/A  
Bonding Co. Name & Address N/A  
Architect/Engineer Name & Address Freeman Design Group Inc. 161 NW Madison St Suite 10  
Lake City, FL 32055  
Mortgage Lenders Name & Address N/A

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

Property ID Number 06-55-16-03471-006 Estimated Cost of Construction 350,000.00

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

Driving Directions From 90 US FL go Left on FL-247 Brandford Hwy. Approx. 12.5 miles on Left handside of the road, next property past Green Gate. Number of Existing Dwellings on Property 0

Construction of Single Family Dwelling Total Acreage 5.010 Lot Size \_\_\_\_\_  
Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 16'3"  
Actual Distance of Structure from Property Lines - Front 140' Side 80'5" Side 264' Rear 20'  
Number of Stories 1 Heated Floor Area 3416.00 Total Heated Floor Area 4890 Roof Pitch 5-12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.



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

**FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment**

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

**NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:**

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

**OWNERS CERTIFICATION:** 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

*Matthew C. Dalay*  
Owners Signature

*Nancy M. Dowling*

*Matthew C. Dalay*

*Nancy M. Dowling*

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

\_\_\_\_\_  
Contractor's Signature (Permitee)

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

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 10th day of Dec. 2007.  
Personally known \_\_\_\_\_ or Produced Identification DL

*Gale Tedder*  
State of Florida Notary Signature (For the Contractor)

SEAL:







# 0712-28

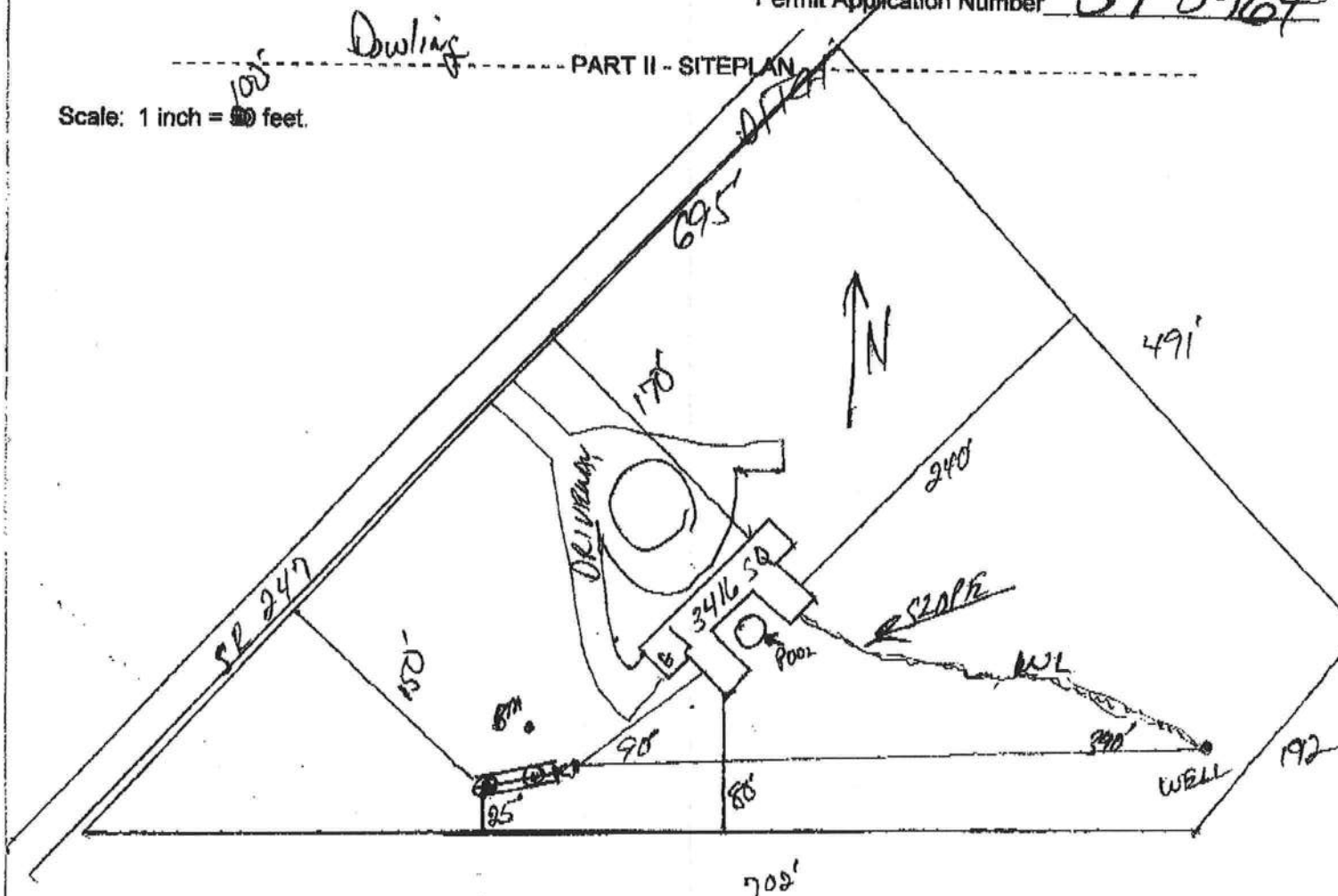
## Permit Application Number

PERMIT  
07-0964

Dowling

**PART II - SITEPLAN**

**Scale:** 1 inch = 50 feet.



**Notes:**

**Site Plan submitted by:**

**Plant Approved**

**By**

**Not Approved**

**MASTER CONTRACTOR**

Date 12-19-07

**County Health Department**

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT**

Documentary Stamps: + \_\_\_\_\_  
Total: \$ \_\_\_\_\_  
Prepared By And Return To:

TITLE OFFICES, LLC BK 0926 PG 0987 01-08478  
2015 S. 1ST ST.  
LAKE CITY, FL 32025

File #01Y-04045DH/ OFFICIAL RECORDS

Property Appraisers Parcel I.D. Number(s): 06-5S-16-03471-006  
Grantee(s) S.S.#(s):

265-F3 4352

FILED AND RECORDED IN PUBLIC  
RECORDS OF COLUMBIA COUNTY, FL

01 MAY 11 PM 1:56



### WARRANTY DEED

THIS WARRANTY DEED made and executed the 7th day of May, 2001 by  
CHARLES E. BANKEMPER, JR., A Single PERSON, hereinafter called the Grantor, to  
MATTHEW C. DOWLING and NANCY M. DOWLING, HIS WIFE, whose post office address is: P. O. BOX 5740,  
KEY WEST, FLORIDA 33045, hereinafter called the Grantee:

(Wherever used herein the terms "Grantor" and "Grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

**WITNESSETH:** That the Grantor, for and in consideration of the sum of TEN DOLLARS (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

### SEE ATTACHED EXHIBIT "A" FOR LEGAL DESCRIPTION

If this box is checked, the Grantor warrants that the above described property is not his/her constitutional homestead as defined by the laws of the State of Florida. He/she resides at \_\_\_\_\_

**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, and hereby 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 easements, restrictions and reservations of record, if any, and taxes accruing subsequent to December 31, 2000.

**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:

Witness: Martha Bryan

Witness:

Witness: Barbara Fraddosio

Witness:

Charles E. Bankemper JR  
CHARLES E. BANKEMPER, JR.  
Address: RT. 27, BOX 607-5

LAKE CITY, FL 32024

Address: RT. 27, BOX 607-5  
LAKE CITY, FL 32024

STATE OF FLORIDA  
COUNTY OF Columbia

I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared CHARLES E. BANKEMPER, JR., who produced the identification described below, and who acknowledged before me that they executed the foregoing instrument. Witness my hand and official seal in the county and state aforesaid this 7th day of May, 2001.

Notary Public:  
Identification Examined:  
drivers license



Martha Bryan  
Notary Public, State of Florida  
August 10, 2001

Documentary Stamp 140.00  
Intangible Tax \_\_\_\_\_  
P. DeWitt Cannon  
Clerk of Court  
cc.



01Y-04045

EXHIBIT "A"

BK 0926 PG0988

OFFICIAL RECORDS

**PARCEL 6 WEST**

SECTION 1 AND 6; A PART OF PARCEL 6 AS DESCRIBED IN A SURVEY DATED JUNE 28, 1993, SIGNED BY L. E. BRITT, P.L.S. NO. 1079, BEING IN THE NW ¼ OF SECTION 6, TOWNSHIP 5 SOUTH, RANGE 16 EAST, AND IN THE NE ¼ OF SECTION 1, TOWNSHIP 5 SOUTH, RANGE 15 EAST; MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGIN AT THE SOUTHEAST CORNER OF THE NE ¼ OF THE NE ¼ OF SAID SECTION 1 AND RUN S 88°52'31" W, ALONG THE SOUTH LINE THEREOF, 390.62 FEET TO A POINT ON THE SOUTHEASTERLY RIGHT OF WAY LINE OF STATE ROAD NO. 247; THENCE N 44°30' E, ALONG SAID SOUTHEASTERLY RIGHT OF WAY LINE, 548.23 FEET TO A POINT ON THE EAST LINE OF SAID NE ¼ OF SECTION 1; THENCE CONTINUE N 44°30' E, STILL ALONG SAID SOUTHEASTERLY RIGHT OF WAY LINE 146.89 FEET; THENCE S 45°30' E, 491.70 FEET; THENCE S 44°30' W, 192.57 FEET TO A POINT OF THE SOUTH LINE OF THE NW ¼ OF SAID NW ¼ OF SECTION 6; THENCE S 88°52'31" W, ALONG THE SOUTH LINE THEREOF, 312.47 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA. SUBJECT TO POWER LINE EASEMENT.

(BF/BS)





0712-28



**FAX  
MEMORANDUM****MEMORANDUM****FLORIDA DEPARTMENT OF TRANSPORTATION**

**To:** Mr. John Kerce, Dept. Director  
Columbia Co. Building & Zoning Dept.  
**Fax No: 386-758-2160**

**From:** Dale L. Cray, FDOT Permits Insp.  
**Date:**11-05-2007 **Fax No. 386-961-7183**  
**Attention:** Col Co. Building Zoning Dept.

☐ Sign and return. ☐ For your files. ☐ Please call me. ☒ FYI ☐ For Review

**REF: Res- . D/W / Inspected On:11-05-2007**

**PROJECT: New / Res. Access S.R. 247 (W)**

**PARCEL ID No: 06-5s-16-03471-006 Permit No : 07-A-292-44 Sec No : 29090**

**MILE POST:2.771+- PERMIT NO: 07-A-292-44**

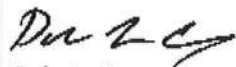
**Mr. Kerce:**

Please accept this as our legal notice of final passing inspection for (MATTHEW C. & NANCY M. DOWLING) for New Res Driveway. The project is located, SR 247 (S) (N) Lake City, Fl .

This access is for an new residential access has been inspected and meets FDOT Standard Requirements.

If further information is required on this project please do not hesitate to contact this office for additional access permitting information details. My office number is 961-7193 or 961-7146.

Sincerely,

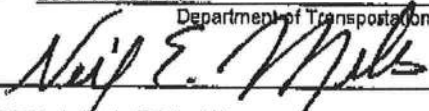


Dale L. Cray

Access Permits Inspector

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**DRIVEWAY CONNECTION PERMIT  
FOR ALL CATEGORIES**850-040-18  
SYSTEMS PLANNING - 08/06  
Page 1 of 3**PART 1: PERMIT INFORMATION**APPLICATION NUMBER: 2007-A-292-44Permit Category: A Access Classification: 4Project: 24' EARTHLIMEROCK DRIVEWAY WITH DOUBLE 40' TURN RADII.Permittee: MATTHEW & NANCY M. DOWLINGSection/Mile Post: 29090 / 2.771+- State Road: 247 (S)Section/Mile Post: N/A State Road: N/A**PART 2: PERMITTEE INFORMATION**Permittee Name: MATTHEW & NANCY M. DOWLINGPermittee Mailing Address: PO BOX 5740City, State, Zip: KEY WEST, FL 33045Telephone: (305)296-0156Engineer/Consultant/or Project Manager: N/AEngineer responsible for construction inspection: N/A  
NAME P.E. #Mailing Address: N/ACity, State, Zip: N/ATelephone: N/A Mobile Phone N/A**PART 3: PERMIT APPROVAL**

The above application has been reviewed and is hereby approved subject to all Provisions as attached.

Permit Number: 2007-A-292-44Signature:  Title: PERMITS COORDINATORDepartment Representative's Printed Name NEIL E. MILESTemporary Permit ☐ YES ☒ NO (If temporary, this permit is only valid for 6 months)Special provisions attached ☒ YES ☐ NODate of Issuance: SEP 19 2007

If this is a normal (non-temporary) permit it authorizes construction for one year from the date of issuance. This can only be extended by the Department as specified in 14-96.007(6).

See following pages for General and Special Provisions



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**DRIVEWAY/CONNECTION APPLICATION**  
**CATEGORY A**850-040-14  
SYSTEMS PLANNING  
09/02

(INDIVIDUAL HOMES, DUPLEXES OR OTHER USES LESS THAN 20 TRIPS/DAY TOTAL)

| OFFICE USE ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Application Number: <u>07-A-292-44</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Accepted By: <u>Dale L. Cray</u><br>FDOT STAFF (TYPE OR PRINT) |
| Category: <u>A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date: _____                                                    |
| Section Road Number & Mile Post: <u>29090 / 2.771+-</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| APPLICANT COMPLETE REMAINDER OF FORM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |
| PART I: APPLICANT INFORMATION (Please type or print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |
| APPLICANT: <u>Matthew &amp; Nancy M. Dowling</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                |
| Mailing Address: <u>PO Box 5740</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                |
| City, State, Zip: <u>Key West, FL 33045</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                |
| Telephone: <u>(305)797-0078</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| Physical Address of Site (if different): _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                |
| Attach Map & Drawing If Necessary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |
| PROPERTY OWNER: (if different from above) <u>Same As Above</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                |
| Mailing Address: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |
| City, State, Zip: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| Telephone: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                |
| PART 2: NOTICE TO APPLICANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                |
| Proposed traffic control features and devices in the right of way, such as median openings and other traffic control devices, are not part of the connection(s) to be authorized by a connection permit. The Department reserves the right to change these features in the future in order to promote safety in the right of way or efficient traffic operations on the highway. Expenditure by the applicant of monies for installation or maintenance of such features shall not create any interest in the features or their maintenance. |                                                                |
| PART 3: CERTIFICATION AND SIGNATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                |
| I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief such information is true, complete and accurate. I will not begin work on the connection until I receive my Permit and I understand all the conditions of the Permit. When I begin work on the connection I am accepting all conditions listed in my Permit.                                                                                                                                                 |                                                                |
| Signed: <u>Matthew C. Dowling</u><br>(Applicant)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Date: <u>09-11-07</u>                                          |
| Printed Name: <u>MATTHEW C. DOWLING</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |



## Florida Department of Transportation

CHARLIE CRIST  
GOVERNOROVERNIGHT ADDRESS  
710 NW LAKE JEFFERY  
SUITE 101, LAKE CITY, FL.  
32055-2621STEPHANIE KOPELOUSOS  
SECRETARY

## STATEMENT OF CONTIGUOUS INTEREST

PROJECT NAME: MATTHEW & NANCY M. DOWLINGPROJECT LOCATION, (PHY./911ADDRESS): S.R 247 (S)STATE HIGHWAY: 247 STATE RD. SECTION 29090COUNTY NAME: COLUMBIA STATE MILE POST: 2.771+-COUNTY PROPERTY I.D NUMBER REQUIRED: 06-5S-16-03471-006PROPT. OWNER'S NAME (Person or company): MATTHEW & NANCY M. DOWLINGOWNER'S MAILING ADDRESS: PO BOX 5740 KEYWEST, FL. 33045PERMITTEE'S P.E. COMPANY: N/ACONTACT P. E. NAME: N/AENGINEER'S ADDRESS: N/APERMITTEE'S LEGAL REPRESENTATIVE: MATTHEW C. DOWLING

I hereby certify that the total contiguous property owned or controlled is as shown on the officially submitted project's construction Plan and more fully by legal description and attached hereto as exhibit "A".

SIGNED: Matthew C. DowlingDATE: 09-11-07NAME/TITLE: MATTHEW & NANCY DOWLINGADDRESS: P O BOX 5740KEY WEST FL 33045



**COLUMBIA COUNTY BUILDING DEPARTMENT**

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

**NOTARIZED 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 for 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.

I understand that if I am not physically doing the work or physically supervising free labor from friends or relatives, that I must hire licensed contractors, i.e. electrician, plumber, mechanical (heating & air conditioning), etc. I further understand that the violation of not physically doing the work, and the use of unlicensed contractors at the construction site, will cause the project to be shut down by the inspection staff of the Columbia County Building Department. Additionally, state statutes allows for additional penalties. I also understand that if this violation does occur, that in order for the job to proceed, I will have a licensed contractor come in and obtain a new permit as taking the job over. I understand that if I hire subcontractors under a contract price, that they must be licensed to work in Columbia County, i.e. masonry, drywall, carpentry. Contractors licensed by the Columbia County Contractor Licensing Section or the State of Florida are required to have worker's compensation and liability coverage.

**TYPE OF CONSTRUCTION**☒ Single Family Dwelling☐ Two-Family Residence☐ Farm Outbuilding☐ Other \_\_\_\_\_☐ Addition, Alteration, Modification or other Improvement

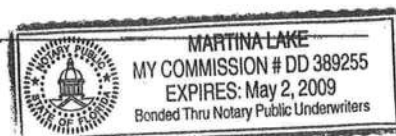
I, Matthew C. Dowling Sr., have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County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

Permit Number \_\_\_\_\_

Matthew C. Dowling Sr. 12-05-07  
 Owner Builder Signature Date

**FLORIDA NOTARY**

The above signer is personally known to me or produced identification

Notary Signature Martina Lake Date 12/5/07**FOR BUILDING DEPARTMENT 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 \_\_\_\_\_

Return to: Matthew C. Dowling  
P.O. Box 5740  
Key West, FL 33045

# NOTICE OF COMMENCEMENT

Inst:200712027127 Date:12/10/2007 Time:1:28 PM  
DC, P. DeWitt Cason, Columbia County Page 1 of 1

Tax Parcel Identification Number 06-55-16-03471-006

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

- Description of property (legal description):  
a) Street (job) Address: FL-247 Branford Hwy Approx 18.5 Miles from US-90
- General description of improvements: Single Family Dwelling
- Owner Information  
a) Name and address: Matthew C. & Nancy M. Dowling, P.O. Box 5740, Key West, FL 33045  
b) Name and address of fee simple titleholder (if other than owner):  
c) Interest in property:
- Contractor Information  
a) Name and address: Matthew C. & Nancy M. Dowling  
b) Telephone No.: 305-797-0078 Fax No. (Opt.): 305-295-4334
- Surety Information  
a) Name and address:  
b) Amount of Bond:  
c) Telephone No.: Fax No. (Opt.):
- Lender  
a) Name and address:  
b) Phone No.:
- Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:  
a) Name and address: Nancy M. Dowling  
b) Telephone No.: 305-797-6547 Fax No. (Opt.): 305-295-4334
- In addition to himself, owner designates the following person to receive a copy of the Licor's Notice as provided in Section 713.13(1)(b), Florida Statutes:  
a) Name and address: Nancy M. Dowling  
b) Telephone No.: 305-797-6547 Fax No. (Opt.): 305-295-4334
- Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): 12/10/2008

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

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Matthew C. & Nancy M. Dowling  
Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager  
Matthew C. Dowling, Nancy M. Dowling  
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 10 day of December, 2007, by:  
Matthew & Nancy Dowling (type of authority, e.g. officer, trustee, attorney)  
(name of party on behalf of whom instrument was executed).

Personally Known OR Produced Identification ☒ Type DL Nancy D542-633-5  
Matthew D542-543-

Notary Signature Lisa Huchingson Notary Stamp or Seal:



11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Matthew C. Dowling  
Signature of Natural Person Signing (in line #10 above.)



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

|               |                                  |                      |  |
|---------------|----------------------------------|----------------------|--|
| Project Name: | <b>Dowling Residence</b>         | Builder:             |  |
| Address:      | <b>SR 247</b>                    | Permitting Office:   |  |
| City, State:  |                                  | Permit Number:       |  |
| Owner:        | <b>Matthew and Nancy Dowling</b> | Jurisdiction Number: |  |
| Climate Zone: | <b>North</b>                     |                      |  |

|                                                                                 |                              |                                        |                    |
|---------------------------------------------------------------------------------|------------------------------|----------------------------------------|--------------------|
| 1. New construction or existing                                                 | New                          | 12. Cooling systems                    |                    |
| 2. Single family or multi-family                                                | Single family                | a. Central Unit                        | Cap: 64.0 kBtu/hr  |
| 3. Number of units, if multi-family                                             | 1                            |                                        | SEER: 13.00        |
| 4. Number of Bedrooms                                                           | 5                            | b. N/A                                 |                    |
| 5. Is this a worst case?                                                        | No                           | c. N/A                                 |                    |
| 6. Conditioned floor area (ft²)                                                 | 3416 ft²                     |                                        |                    |
| 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. Natural Gas Heat Pump               | Cap: 64.0 kBtu/hr  |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default) 257.0 ft² |                                        | COP: 2.00          |
| b. SHGC:                                                                        |                              | b. N/A                                 |                    |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 257.0 ft²        | c. N/A                                 |                    |
| 8. Floor types                                                                  |                              | 14. Hot water systems                  |                    |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 389.0(p) ft           | a. Integral Dedicated Heat Pump        | Cap: 150.0 gallons |
| b. N/A                                                                          |                              |                                        | EF: 0.94           |
| c. N/A                                                                          |                              | b. N/A                                 |                    |
| 9. Wall types                                                                   |                              | c. Conservation credits                |                    |
| a. Concrete, Int Insul, Exterior                                                | R=13.0, 3084.0 ft²           | (HR-Heat recovery, Solar               |                    |
| b. N/A                                                                          |                              | DHP-Dedicated heat pump)               |                    |
| c. N/A                                                                          |                              | 15. HVAC credits                       | PT, CF,            |
| d. N/A                                                                          |                              | (CF-Ceiling fan, CV-Cross ventilation, |                    |
| e. N/A                                                                          |                              | HF-Whole house fan,                    |                    |
| 10. Ceiling types                                                               |                              | PT-Programmable Thermostat,            |                    |
| a. Under Attic                                                                  | R=30.0, 3416.0 ft²           | MZ-C-Multizone cooling,                |                    |
| b. N/A                                                                          |                              | MZ-H-Multizone heating)                |                    |
| c. N/A                                                                          |                              |                                        |                    |
| 11. Ducts                                                                       |                              |                                        |                    |
| a. Sup: Con. Ret: Con. AH: Interior                                             | Sup. R=6.0, 114.0 ft         |                                        |                    |
| b. N/A                                                                          |                              |                                        |                    |

Glass/Floor Area: 0.08

Total as-built points: 26869

Total base points: 45705

**PASS**

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

PREPARED BY: Deborah Moles

DATE: 11/6/07

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

OWNER/AGENT: Matthew C. Dowling

DATE: 12-04-07

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: SR 247, , ,

PERMIT #:

| BASE                                            |          |          |          | AS-BUILT                         |                          |        |                           |             |          |          |         |  |
|-------------------------------------------------|----------|----------|----------|----------------------------------|--------------------------|--------|---------------------------|-------------|----------|----------|---------|--|
| GLASS TYPES                                     |          |          |          |                                  |                          |        |                           |             |          |          |         |  |
| .18 X Conditioned X BSPM = Points<br>Floor Area |          |          |          | Type/SC                          | Overhang<br>Ornt Len Hgt |        | Area X SPM X SOF = Points |             |          |          |         |  |
| .18                                             | 3416.0   | 18.59    | 11431.0  | 1.Double, Clear                  | N                        | 1.0    | 6.0                       | 16.0        | 19.20    | 0.98     | 299.0   |  |
|                                                 |          |          |          | 2.Double, Clear                  | S                        | 1.0    | 6.0                       | 60.0        | 35.87    | 0.94     | 2031.0  |  |
|                                                 |          |          |          | 3.Double, Clear                  | S                        | 8.0    | 6.0                       | 90.0        | 35.87    | 0.48     | 1562.0  |  |
|                                                 |          |          |          | 4.Double, Clear                  | E                        | 1.0    | 6.0                       | 30.0        | 42.06    | 0.97     | 1223.0  |  |
|                                                 |          |          |          | 5.Double, Clear                  | N                        | 1.0    | 6.0                       | 15.0        | 19.20    | 0.98     | 280.0   |  |
|                                                 |          |          |          | 6.Double, Clear                  | W                        | 1.0    | 6.0                       | 16.0        | 38.52    | 0.97     | 598.0   |  |
|                                                 |          |          |          | 7.Double, Clear                  | W                        | 1.0    | 6.0                       | 30.0        | 38.52    | 0.97     | 1121.0  |  |
|                                                 |          |          |          | As-Built Total:                  |                          | 257.0  |                           |             | 7114.0   |          |         |  |
| WALL TYPES Area X BSPM = Points                 |          |          |          | Type                             | R-Value                  |        | Area X SPM = Points       |             |          |          |         |  |
| Adjacent                                        | 0.0      | 0.00     | 0.0      | 1. Concrete, Int Insul, Exterior | 13.0                     |        | 3084.0                    | 0.35        |          | 1079.4   |         |  |
| Exterior                                        | 3084.0   | 1.70     | 5242.8   |                                  |                          |        |                           |             |          |          |         |  |
| Base Total:                                     |          | 3084.0   | 5242.8   | As-Built Total:                  |                          | 3084.0 |                           |             | 1079.4   |          |         |  |
| DOOR TYPES Area X BSPM = Points                 |          |          |          | Type                             | Area X SPM = Points      |        |                           |             |          |          |         |  |
| Adjacent                                        | 0.0      | 0.00     | 0.0      | 1.Exterior Insulated             |                          |        | 75.0                      | 4.10        |          | 307.5    |         |  |
| Exterior                                        | 75.0     | 6.10     | 457.5    |                                  |                          |        |                           |             |          |          |         |  |
| Base Total:                                     |          | 75.0     | 457.5    | As-Built Total:                  |                          | 75.0   |                           |             | 307.5    |          |         |  |
| CEILING TYPES Area X BSPM = Points              |          |          |          | Type                             | R-Value                  |        | Area X SPM X SCM = Points |             |          |          |         |  |
| Under Attic                                     | 3416.0   | 1.73     | 5909.7   | 1. Under Attic                   | 30.0                     |        | 3416.0                    | 1.73 X 1.00 |          | 5909.7   |         |  |
| Base Total:                                     |          | 3416.0   | 5909.7   | As-Built Total:                  |                          | 3416.0 |                           |             | 5909.7   |          |         |  |
| FLOOR TYPES Area X BSPM = Points                |          |          |          | Type                             | R-Value                  |        | Area X SPM = Points       |             |          |          |         |  |
| Slab                                            | 389.0(p) | -37.0    | -14393.0 | 1. Slab-On-Grade Edge Insulation | 0.0                      |        | 389.0(p)                  | -41.20      |          | -16026.8 |         |  |
| Raised                                          | 0.0      | 0.00     | 0.0      |                                  |                          |        |                           |             |          |          |         |  |
| Base Total:                                     |          | -14393.0 |          | As-Built Total:                  |                          | 389.0  |                           |             | -16026.8 |          |         |  |
| INFILTRATION Area X BSPM = Points               |          |          |          | Area X SPM = Points              |                          |        |                           |             |          |          |         |  |
|                                                 |          | 3416.0   | 10.21    |                                  |                          | 3416.0 |                           |             | 10.21    |          | 34877.4 |  |

**SUMMER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: SR 247, , ,

PERMIT #:

| BASE                        |                           |   |                   | AS-BUILT                                                                                                                                                                                                   |                                       |                                             |                           |                           |   |                   |
|-----------------------------|---------------------------|---|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|---------------------------|---------------------------|---|-------------------|
| Summer Base Points: 43525.3 |                           |   |                   | Summer As-Built Points: 33261.1                                                                                                                                                                            |                                       |                                             |                           |                           |   |                   |
| Total Summer<br>Points      | X<br>System<br>Multiplier | = | Cooling<br>Points | Total<br>Component<br>(System - Points)                                                                                                                                                                    | X<br>Cap<br>Ratio<br>(DM x DSM x AHU) | X<br>Duct<br>Multiplier<br>(DM x DSM x AHU) | X<br>System<br>Multiplier | X<br>Credit<br>Multiplier | = | Cooling<br>Points |
| 43525.3                     | 0.3250                    |   | 14145.7           | <small>(sys 1: Central Unit 64000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)</small><br>33261 1.00 (1.00 x 1.147 x 0.91) 0.260 0.902 8146.3<br><b>33261.1 1.00 1.044 0.260 0.902 8146.3</b> |                                       |                                             |                           |                           |   |                   |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: SR 247, , ,

PERMIT #:

| BASE                                            |          |        |         | AS-BUILT                         |          |                     |                           |          |                           |       |         |
|-------------------------------------------------|----------|--------|---------|----------------------------------|----------|---------------------|---------------------------|----------|---------------------------|-------|---------|
| GLASS TYPES                                     |          |        |         |                                  |          |                     |                           |          |                           |       |         |
| .18 X Conditioned X BWPM = Points<br>Floor Area |          |        |         | Type/SC                          | Overhang |                     | Area X WPM X WOF = Points |          |                           |       |         |
|                                                 |          |        |         | Ornt                             | Len      | Hgt                 |                           |          |                           |       |         |
| .18                                             | 3416.0   | 20.17  | 12402.0 | 1.Double, Clear                  | N        | 1.0                 | 6.0                       | 16.0     | 24.58                     | 1.00  | 393.0   |
|                                                 |          |        |         | 2.Double, Clear                  | S        | 1.0                 | 6.0                       | 60.0     | 13.30                     | 1.02  | 816.0   |
|                                                 |          |        |         | 3.Double, Clear                  | S        | 8.0                 | 6.0                       | 90.0     | 13.30                     | 3.15  | 3769.0  |
|                                                 |          |        |         | 4.Double, Clear                  | E        | 1.0                 | 6.0                       | 30.0     | 18.79                     | 1.02  | 572.0   |
|                                                 |          |        |         | 5.Double, Clear                  | N        | 1.0                 | 6.0                       | 15.0     | 24.58                     | 1.00  | 368.0   |
|                                                 |          |        |         | 6.Double, Clear                  | W        | 1.0                 | 6.0                       | 16.0     | 20.73                     | 1.01  | 334.0   |
|                                                 |          |        |         | 7.Double, Clear                  | W        | 1.0                 | 6.0                       | 30.0     | 20.73                     | 1.01  | 626.0   |
|                                                 |          |        |         | As-Built Total:                  |          | 257.0               |                           |          | 6878.0                    |       |         |
| WALL TYPES                                      |          |        |         | Area X BWPM = Points             |          | Type                | R-Value                   |          | Area X WPM = Points       |       |         |
| Adjacent                                        | 0.0      | 0.00   | 0.0     | 1. Concrete, Int Insul, Exterior |          | 13.0                |                           | 3084.0   | 2.72                      |       | 8403.9  |
| Exterior                                        | 3084.0   | 3.70   | 11410.8 |                                  |          |                     |                           |          |                           |       |         |
| Base Total:                                     |          | 3084.0 | 11410.8 | As-Built Total:                  |          | 3084.0              |                           |          | 8403.9                    |       |         |
| DOOR TYPES                                      |          |        |         | Area X BWPM = Points             |          | Type                | Area X WPM = Points       |          |                           |       |         |
| Adjacent                                        | 0.0      | 0.00   | 0.0     | 1.Exterior Insulated             |          | 75.0                |                           | 8.40     |                           | 630.0 |         |
| Exterior                                        | 75.0     | 12.30  | 922.5   |                                  |          |                     |                           |          |                           |       |         |
| Base Total:                                     |          | 75.0   | 922.5   | As-Built Total:                  |          | 75.0                |                           |          | 630.0                     |       |         |
| CEILING TYPES                                   |          |        |         | Area X BWPM = Points             |          | Type                | R-Value                   |          | Area X WPM X WCM = Points |       |         |
| Under Attic                                     | 3416.0   | 2.05   | 7002.8  | 1. Under Attic                   |          | 30.0                |                           | 3416.0   | 2.05 X 1.00               |       | 7002.8  |
| Base Total:                                     |          | 3416.0 | 7002.8  | As-Built Total:                  |          | 3416.0              |                           |          | 7002.8                    |       |         |
| FLOOR TYPES                                     |          |        |         | Area X BWPM = Points             |          | Type                | R-Value                   |          | Area X WPM = Points       |       |         |
| Slab                                            | 389.0(p) | 8.9    | 3462.1  | 1. Slab-On-Grade Edge Insulation |          | 0.0                 |                           | 389.0(p) | 18.80                     |       | 7313.2  |
| Raised                                          | 0.0      | 0.00   | 0.0     |                                  |          |                     |                           |          |                           |       |         |
| Base Total:                                     |          | 3462.1 |         | As-Built Total:                  |          | 389.0               |                           |          | 7313.2                    |       |         |
| INFILTRATION                                    |          |        |         | Area X BWPM = Points             |          | Area X WPM = Points |                           |          |                           |       |         |
|                                                 |          | 3416.0 | -0.59   | -2015.4                          |          |                     |                           | 3416.0   | -0.59                     |       | -2015.4 |



**WINTER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: SR 247, , ,

PERMIT #:

| BASE                               |                           |                        | AS-BUILT                                                                                                                                                                                       |                                       |                                             |                           |                           |                        |  |
|------------------------------------|---------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|---------------------------|---------------------------|------------------------|--|
| <b>Winter Base Points: 33184.8</b> |                           |                        | <b>Winter As-Built Points: 28212.5</b>                                                                                                                                                         |                                       |                                             |                           |                           |                        |  |
| Total Winter<br>Points             | X<br>System<br>Multiplier | =<br>Heating<br>Points | Total<br>Component<br>(System - Points)                                                                                                                                                        | X<br>Cap<br>Ratio<br>(DM x DSM x AHU) | X<br>Duct<br>Multiplier<br>(DM x DSM x AHU) | X<br>System<br>Multiplier | X<br>Credit<br>Multiplier | =<br>Heating<br>Points |  |
| <b>33184.8</b>                     | <b>0.5540</b>             | <b>18384.4</b>         | (sys 1: Natural Gas Heat Pump 64000 btuh ,EFF(2.0) Ducts:Con(S),Con(R),Int(AH),R6.0<br>28212.5 1.000 (1.000 x 1.169 x 0.93) 0.200 0.950 5827.6<br><b>28212.5 1.00 1.087 0.200 0.950 5827.6</b> |                                       |                                             |                           |                           |                        |  |

**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: SR 247,,,

PERMIT #:

| BASE                  |   |            |         | AS-BUILT        |      |                       |   |                 |              |                              |
|-----------------------|---|------------|---------|-----------------|------|-----------------------|---|-----------------|--------------|------------------------------|
| WATER HEATING         |   |            |         |                 |      |                       |   |                 |              |                              |
| Number of<br>Bedrooms | X | Multiplier | = Total | Tank<br>Volume  | EF   | Number of<br>Bedrooms | X | Tank X<br>Ratio | Multiplier X | Credit = Total<br>Multiplier |
| 5                     |   | 2635.00    | 13175.0 | 150.0           | 0.94 | 5                     |   | 1.00            | 2578.94      | 1.00 12894.7                 |
|                       |   |            |         | As-Built Total: |      |                       |   |                 |              | 12894.7                      |

| CODE COMPLIANCE STATUS |   |                   |                                         |                   |   |                   |                                         |
|------------------------|---|-------------------|-----------------------------------------|-------------------|---|-------------------|-----------------------------------------|
| BASE                   |   |                   |                                         | AS-BUILT          |   |                   |                                         |
| Cooling<br>Points      | + | Heating<br>Points | + Hot Water<br>Points = Total<br>Points | Cooling<br>Points | + | Heating<br>Points | + Hot Water<br>Points = Total<br>Points |
| 14146                  |   | 18384             | 13175 45705                             | 8146              |   | 5828              | 12895 26869                             |

**PASS**

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: SR 247, , ,

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.<br>EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate. |       |
| Floors                        | 606.1.ABC.1.2.2 | Penetrations/openings >1/8" sealed unless backed by truss or joint members.<br>EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.                                                                                                                                                                                                      |       |
| Ceilings                      | 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.<br>Common ceiling & floors R-11.                                                                                                                                |       |



# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 93.5**

The higher the score, the more efficient the home.

Matthew and Nancy Dowling, SR 247, , ,

|                                                                                 |                                          |     |                                        |                    |
|---------------------------------------------------------------------------------|------------------------------------------|-----|----------------------------------------|--------------------|
| 1. New construction or existing                                                 | New                                      | ___ | 12. Cooling systems                    |                    |
| 2. Single family or multi-family                                                | Single family                            | ___ | a. Central Unit                        | Cap: 64.0 kBtu/hr  |
| 3. Number of units, if multi-family                                             | 1                                        | ___ |                                        | SEER: 13.00        |
| 4. Number of Bedrooms                                                           | 5                                        | ___ | b. N/A                                 | ___                |
| 5. Is this a worst case?                                                        | No                                       | ___ | c. N/A                                 | ___                |
| 6. Conditioned floor area (ft <sup>2</sup> )                                    | 3416 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. Natural Gas Heat Pump               | Cap: 64.0 kBtu/hr  |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default) 257.0 ft <sup>2</sup> | ___ |                                        | COP: 2.00          |
| b. SHGC:                                                                        |                                          | ___ | b. N/A                                 | ___                |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 257.0 ft <sup>2</sup>        | ___ | c. N/A                                 | ___                |
| 8. Floor types                                                                  |                                          | ___ | 14. Hot water systems                  |                    |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 389.0(p) ft                       | ___ | a. Integral Dedicated Heat Pump        | Cap: 150.0 gallons |
| b. N/A                                                                          | ___                                      | ___ |                                        | EF: 0.94           |
| c. N/A                                                                          | ___                                      | ___ | b. N/A                                 | ___                |
| 9. Wall types                                                                   |                                          | ___ | c. Conservation credits                | ___                |
| a. Concrete, Int Insul, Exterior                                                | R=13.0, 3084.0 ft <sup>2</sup>           | ___ | (HR-Heat recovery, Solar               | ___                |
| b. N/A                                                                          | ___                                      | ___ | DHP-Dedicated heat pump)               | ___                |
| c. N/A                                                                          | ___                                      | ___ | 15. HVAC credits                       | PT, CF, ___        |
| d. N/A                                                                          | ___                                      | ___ | (CF-Ceiling fan, CV-Cross ventilation, | ___                |
| e. N/A                                                                          | ___                                      | ___ | HF-Whole house fan,                    | ___                |
| 10. Ceiling types                                                               |                                          | ___ | PT-Programmable Thermostat,            | ___                |
| a. Under Attic                                                                  | R=30.0, 3416.0 ft <sup>2</sup>           | ___ | MZ-C-Multizone cooling,                | ___                |
| b. N/A                                                                          | ___                                      | ___ | MZ-H-Multizone heating)                | ___                |
| c. N/A                                                                          | ___                                      | ___ |                                        | ___                |
| 11. Ducts                                                                       |                                          | ___ |                                        | ___                |
| a. Sup: Con. Ret: Con. AH: Interior                                             | Sup. R=6.0, 114.0 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.*

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCPB v4.5.2)

# BUILDING INPUT SUMMARY REPORT

|                                 |                                    |                               |                                    |                      |                              |               |         |       |
|---------------------------------|------------------------------------|-------------------------------|------------------------------------|----------------------|------------------------------|---------------|---------|-------|
| <b>PROJECT</b>                  | Title: Dowling Residence           |                               | Family Type: Single                |                      | Address Type: Street Address |               |         |       |
|                                 | Owner: Matthew and Nancy Dowling   |                               | New/Existing: New                  |                      | Lot #: N/A                   |               |         |       |
|                                 | # of Units: 1                      |                               | Bedrooms: 5                        |                      | Subdivision: N/A             |               |         |       |
|                                 | Builder Name: (blank)              |                               | Conditioned Area: 3416             |                      | Platbook: N/A                |               |         |       |
|                                 | Climate: North                     |                               | Total Stories: 1                   |                      | Street: SR 247               |               |         |       |
|                                 | Permit Office: (blank)             |                               | Worst Case: No                     |                      | County: (blank)              |               |         |       |
|                                 | Jurisdiction #: (blank)            |                               | Rotate Angle: (blank)              |                      | City, St, Zip: , ,           |               |         |       |
| <b>FLOORS</b>                   | #                                  | Floor Type                    | R-Val                              | Area/Perimeter       | Units                        |               |         |       |
|                                 | 1                                  | Slab-On-Grade Edge Insulation | 0.0                                | 389.0(p) ft          | 1                            |               |         |       |
| <b>DOORS</b>                    | #                                  | Door Type                     | Orientation                        | Area                 | Units                        |               |         |       |
|                                 | 1                                  | Insulated                     | Exterior                           | 15.0 ft²             | 5                            |               |         |       |
| <b>CEILINGS</b>                 | #                                  | Ceiling Type                  | R-Val                              | Area                 | Base Area                    | Units         |         |       |
|                                 | 1                                  | Under Attic                   | 30.0                               | 3416.0 ft²           | 3416.0 ft²                   | 1             |         |       |
| Credit Multipliers: None        |                                    |                               |                                    |                      |                              |               |         |       |
| <b>COOLING</b>                  | #                                  | System Type                   | Efficiency                         | Capacity             |                              |               |         |       |
|                                 | 1                                  | Central Unit                  | SEER: 13.00                        | 64.0 kBtu/hr         |                              |               |         |       |
| Credit Multipliers: Ceil Fn, PT |                                    |                               |                                    |                      |                              |               |         |       |
| <b>WALLS</b>                    | #                                  | Wall Type                     | Location                           | R-Val                | Area                         | Units         |         |       |
|                                 | 1                                  | Concrete Block - Int Insul    | Exterior                           | 13.0                 | 3084.0 ft²                   | 1             |         |       |
| <b>HEATING</b>                  | #                                  | System Type                   | Efficiency                         | Capacity             |                              |               |         |       |
|                                 | 1                                  | Natural Gas Heat Pump         | AFUE: 2.00                         | 64.0 kBtu/hr         |                              |               |         |       |
| Credit Multipliers: PT          |                                    |                               |                                    |                      |                              |               |         |       |
| <b>WINDOWS</b>                  | #                                  | Panes                         | Tint                               | Ornt                 | Area                         | OH Length     | OH Hght | Units |
|                                 | 1                                  | Double                        | Clear                              | N                    | 8.0 ft²                      | 1.0 ft        | 6.0 ft  | 2     |
|                                 | 2                                  | Double                        | Clear                              | S                    | 15.0 ft²                     | 1.0 ft        | 6.0 ft  | 4     |
|                                 | 3                                  | Double                        | Clear                              | S                    | 15.0 ft²                     | 8.0 ft        | 6.0 ft  | 6     |
|                                 | 4                                  | Double                        | Clear                              | E                    | 15.0 ft²                     | 1.0 ft        | 6.0 ft  | 2     |
|                                 | 5                                  | Double                        | Clear                              | N                    | 15.0 ft²                     | 1.0 ft        | 6.0 ft  | 1     |
|                                 | 6                                  | Double                        | Clear                              | W                    | 16.0 ft²                     | 1.0 ft        | 6.0 ft  | 1     |
| 7                               | Double                             | Clear                         | W                                  | 15.0 ft²             | 1.0 ft                       | 6.0 ft        | 2       |       |
| <b>DUCTS</b>                    | #                                  | Supply Location               | Return Location                    | Air Handler Location | Supply R-Val                 | Supply Length |         |       |
|                                 | 1                                  | Cond.                         | Cond.                              | Interior             | 6.0                          | 114.0 ft      |         |       |
| Credit Multipliers: None        |                                    |                               |                                    |                      |                              |               |         |       |
| <b>WATER</b>                    | #                                  | System Type                   | EF                                 | Cap.                 | Conservation Type            | Con. EF       |         |       |
|                                 | 1                                  | Integral Dedicated Heat Pump  | 0.94                               | 150.0                | None                         | 0.00          |         |       |
| <b>REFR.</b>                    | #                                  | Use Default?                  | Annual Operating Cost              | Electric Rate        |                              |               |         |       |
|                                 | 1                                  | Yes                           | N/A                                | N/A                  |                              |               |         |       |
| <b>MISC</b>                     | Rater Name: CodeOnlyPro            |                               | Class #: 3                         |                      | Pool Size: 0                 |               |         |       |
|                                 | Rater Certification #: CodeOnlyPro |                               | Duct Leakage Type: N/A             |                      | Pump Size: 0.00 hp           |               |         |       |
|                                 | Area Under Fluorescent: 0.0        |                               | Visible Duct Disconnects: N/A      |                      | Dryer Type: Electric         |               |         |       |
|                                 | Area Under Incandescent: 3416.0    |                               | Leak Free Duct System Proposed: No |                      | Stove Type: Electric         |               |         |       |
|                                 | NOTE: Not all Rating info shown    |                               | HRV/ERV System Present?: No        |                      | Avg Ceil Hgt:                |               |         |       |

# Residential System Sizing Calculation

## Summary

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

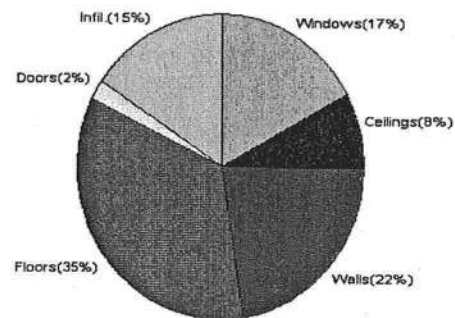
11/5/2007

|                                                                                                 |                   |                                       |                   |
|-------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|
| Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) |                   |                                       |                   |
| Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)              |                   |                                       |                   |
| Winter design temperature                                                                       | 33 F              | Summer design temperature             | 92 F              |
| Winter setpoint                                                                                 | 70 F              | Summer setpoint                       | 75 F              |
| Winter temperature difference                                                                   | 37 F              | Summer temperature difference         | 17 F              |
| <b>Total heating load calculation</b>                                                           | <b>48326 Btuh</b> | <b>Total cooling load calculation</b> | <b>26089 Btuh</b> |
| Submitted heating capacity                                                                      | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Natural Gas Heat Pump)                                                                   | 132.4 64000       | Sensible (SHR = 0.75)                 | 218.6 48000       |
| Heat Pump + Auxiliary(0.0kW)                                                                    | 132.4 64000       | Latent                                | 387.5 16000       |
|                                                                                                 |                   | Total (Natural Gas Heat Pump)         | 245.3 64000       |

## WINTER CALCULATIONS

Winter Heating Load (for 3416 sqft)

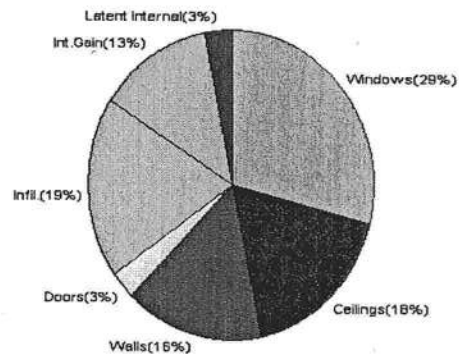
| Load component         |           | Load         |             |
|------------------------|-----------|--------------|-------------|
| Window total           | 257 sqft  | 8273         | Btuh        |
| Wall total             | 3084 sqft | 10693        | Btuh        |
| Door total             | 75 sqft   | 971          | Btuh        |
| Ceiling total          | 3416 sqft | 4025         | Btuh        |
| Floor total            | 389 sqft  | 16984        | Btuh        |
| Infiltration           | 182 cfm   | 7380         | Btuh        |
| Duct loss              |           | 0            | Btuh        |
| <b>Subtotal</b>        |           | <b>48326</b> | <b>Btuh</b> |
| Ventilation            | 0 cfm     | 0            | Btuh        |
| <b>TOTAL HEAT LOSS</b> |           | <b>48326</b> | <b>Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 3416 sqft)

| Load component                        |           | Load         |             |
|---------------------------------------|-----------|--------------|-------------|
| Window total                          | 257 sqft  | 7595         | Btuh        |
| Wall total                            | 3084 sqft | 4046         | Btuh        |
| Door total                            | 75 sqft   | 735          | Btuh        |
| Ceiling total                         | 3416 sqft | 4569         | Btuh        |
| Floor total                           |           | 0            | Btuh        |
| Infiltration                          | 91 cfm    | 1695         | Btuh        |
| Internal gain                         |           | 3320         | Btuh        |
| Duct gain                             |           | 0            | Btuh        |
| Sens. Ventilation                     | 0 cfm     | 0            | Btuh        |
| <b>Total sensible gain</b>            |           | <b>21960</b> | <b>Btuh</b> |
| Latent gain(ducts)                    |           | 0            | Btuh        |
| Latent gain(infiltration)             |           | 3329         | Btuh        |
| Latent gain(ventilation)              |           | 0            | Btuh        |
| Latent gain(internal/occupants/other) |           | 800          | Btuh        |
| <b>Total latent gain</b>              |           | <b>4129</b>  | <b>Btuh</b> |
| <b>TOTAL HEAT GAIN</b>                |           | <b>26089</b> | <b>Btuh</b> |



Version 8  
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: William A. Moles

DATE: 11-6-07



# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

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

11/5/2007

### Component Loads for Whole House

| Window             | Panes/SHGC/Frame/U          | Orientation | Area(sqft)   | X           | HTM=           | Load       |
|--------------------|-----------------------------|-------------|--------------|-------------|----------------|------------|
| 1                  | 2, Clear, Metal, 0.87       | N           | 16.0         |             | 32.2           | 515 Btuh   |
| 2                  | 2, Clear, Metal, 0.87       | S           | 60.0         |             | 32.2           | 1931 Btuh  |
| 3                  | 2, Clear, Metal, 0.87       | S           | 90.0         |             | 32.2           | 2897 Btuh  |
| 4                  | 2, Clear, Metal, 0.87       | E           | 30.0         |             | 32.2           | 966 Btuh   |
| 5                  | 2, Clear, Metal, 0.87       | N           | 15.0         |             | 32.2           | 483 Btuh   |
| 6                  | 2, Clear, Metal, 0.87       | W           | 16.0         |             | 32.2           | 515 Btuh   |
| 7                  | 2, Clear, Metal, 0.87       | W           | 30.0         |             | 32.2           | 966 Btuh   |
| Window Total       |                             |             | 257(sqft)    |             |                | 8273 Btuh  |
| Walls              | Type                        | R-Value     | Area X       |             | HTM=           | Load       |
| 1                  | Concrete Blk, - Ext(0.09)   | 13.0        | 3084         |             | 3.5            | 10693 Btuh |
| Wall Total         |                             |             | 3084         |             |                | 10693 Btuh |
| Doors              | Type                        |             | Area X       |             | HTM=           | Load       |
| 1                  | Insulated - Exterior        |             | 75           |             | 12.9           | 971 Btuh   |
| Door Total         |                             |             | 75           |             |                | 971 Btuh   |
| Ceilings           | Type/Color/Surface          | R-Value     | Area X       |             | HTM=           | Load       |
| 1                  | Vented Attic/L/Meta         | 30.0        | 3416         |             | 1.2            | 4025 Btuh  |
| Ceiling Total      |                             |             | 3416         |             |                | 4025 Btuh  |
| Floors             | Type                        | R-Value     | Size X       |             | HTM=           | Load       |
| 1                  | Slab On Grade               | 0           | 389.0 ft(p)  |             | 43.7           | 16984 Btuh |
| Floor Total        |                             |             | 389          |             |                | 16984 Btuh |
| Envelope Subtotal: |                             |             |              |             |                | 40946 Btuh |
| Infiltration       | Type                        | ACH X       | Volume(cuft) | walls(sqft) | CFM=           |            |
|                    | Natural                     | 0.32        | 34160        | 3084        | 182.2          | 7380 Btuh  |
| Ductload           |                             |             |              |             | (DLM of 0.000) | 0 Btuh     |
| All Zones          | Sensible Subtotal All Zones |             |              |             |                | 48326 Btuh |

### WHOLE HOUSE TOTALS

|  |                      |            |
|--|----------------------|------------|
|  | Subtotal Sensible    | 48326 Btuh |
|  | Ventilation Sensible | 0 Btuh     |
|  | Total Btuh Loss      | 48326 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

11/5/2007

### EQUIPMENT

|                          |   |            |
|--------------------------|---|------------|
| 1. Natural Gas Heat Pump | # | 64000 Btuh |
|--------------------------|---|------------|

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

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



Version 8  
For Florida residences only

# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

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

11/5/2007

### Component Loads for Zone #1: Main

| Window                  | Panes/SHGC/Frame/U                                                  | Orientation        | Area(sqft) X | HTM= | Load       |
|-------------------------|---------------------------------------------------------------------|--------------------|--------------|------|------------|
| 1                       | 2, Clear, Metal, 0.87                                               | N                  | 16.0         | 32.2 | 515 Btuh   |
| 2                       | 2, Clear, Metal, 0.87                                               | S                  | 60.0         | 32.2 | 1931 Btuh  |
| 3                       | 2, Clear, Metal, 0.87                                               | S                  | 90.0         | 32.2 | 2897 Btuh  |
| 4                       | 2, Clear, Metal, 0.87                                               | E                  | 30.0         | 32.2 | 966 Btuh   |
| 5                       | 2, Clear, Metal, 0.87                                               | N                  | 15.0         | 32.2 | 483 Btuh   |
| 6                       | 2, Clear, Metal, 0.87                                               | W                  | 16.0         | 32.2 | 515 Btuh   |
| 7                       | 2, Clear, Metal, 0.87                                               | W                  | 30.0         | 32.2 | 966 Btuh   |
| Window Total            |                                                                     |                    | 257(sqft)    |      | 8273 Btuh  |
| Walls                   | Type                                                                | R-Value            | Area X       | HTM= | Load       |
| 1                       | Concrete Blk, - Ext(0.09)                                           | 13.0               | 3084         | 3.5  | 10693 Btuh |
| Wall Total              |                                                                     |                    | 3084         |      | 10693 Btuh |
| Doors                   | Type                                                                |                    | Area X       | HTM= | Load       |
| 1                       | Insulated - Exterior                                                |                    | 75           | 12.9 | 971 Btuh   |
| Door Total              |                                                                     |                    | 75           |      | 971 Btuh   |
| Ceilings                | Type/Color/Surface                                                  | R-Value            | Area X       | HTM= | Load       |
| 1                       | Vented Attic/L/Meta                                                 | 30.0               | 3416         | 1.2  | 4025 Btuh  |
| Ceiling Total           |                                                                     |                    | 3416         |      | 4025 Btuh  |
| Floors                  | Type                                                                | R-Value            | Size X       | HTM= | Load       |
| 1                       | Slab On Grade                                                       | 0                  | 389.0 ft(p)  | 43.7 | 16984 Btuh |
| Floor Total             |                                                                     |                    | 389          |      | 16984 Btuh |
| Zone Envelope Subtotal: |                                                                     |                    |              |      | 40946 Btuh |
| Infiltration            | Type                                                                | ACH X Volume(cuft) | walls(sqft)  | CFM= |            |
|                         | Natural                                                             | 0.32               | 34160        | 3084 | 182.2      |
|                         |                                                                     |                    |              |      | 7380 Btuh  |
| Ductload                | Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)\DLM of 0.000) |                    |              |      | 0 Btuh     |
| Zone #1                 | Sensible Zone Subtotal                                              |                    |              |      | 48326 Btuh |

### WHOLE HOUSE TOTALS

|  |                      |            |
|--|----------------------|------------|
|  | Subtotal Sensible    | 48326 Btuh |
|  | Ventilation Sensible | 0 Btuh     |
|  | Total Btuh Loss      | 48326 Btuh |



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

11/5/2007

### EQUIPMENT

|                          |   |            |
|--------------------------|---|------------|
| 1. Natural Gas Heat Pump | # | 64000 Btuh |
|--------------------------|---|------------|

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

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



Version 8  
For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

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

11/5/2007

### Component Loads for Whole House

| Window        | Type*                    | Ornt | Overhang        |      | Window Area(sqft) |        |                 | HTM       |          | Load       |
|---------------|--------------------------|------|-----------------|------|-------------------|--------|-----------------|-----------|----------|------------|
|               | Pn/SHGC/U/InSh/ExSh/IS   |      | Len             | Hgt  | Gross             | Shaded | Unshaded        | Shaded    | Unshaded |            |
| 1             | 2, Clear, 0.87, B-D, N,F | N    | 1ft.            | 6ft. | 16.0              | 0.0    | 16.0            | 19        | 19       | 299 Btuh   |
| 2             | 2, Clear, 0.87, B-D, N,F | S    | 1ft.            | 6ft. | 60.0              | 60.0   | 0.0             | 19        | 23       | 1121 Btuh  |
| 3             | 2, Clear, 0.87, B-D, N,F | S    | 8ft.            | 6ft. | 90.0              | 90.0   | 0.0             | 19        | 23       | 1681 Btuh  |
| 4             | 2, Clear, 0.87, B-D, N,F | E    | 1ft.            | 6ft. | 30.0              | 0.0    | 30.0            | 19        | 55       | 1663 Btuh  |
| 5             | 2, Clear, 0.87, B-D, N,F | N    | 1ft.            | 6ft. | 15.0              | 0.0    | 15.0            | 19        | 19       | 280 Btuh   |
| 6             | 2, Clear, 0.87, B-D, N,F | W    | 1ft.            | 6ft. | 16.0              | 0.0    | 16.0            | 19        | 55       | 887 Btuh   |
| 7             | 2, Clear, 0.87, B-D, N,F | W    | 1ft.            | 6ft. | 30.0              | 0.0    | 30.0            | 19        | 55       | 1663 Btuh  |
|               | Window Total             |      |                 |      | 257 (sqft)        |        |                 |           |          | 7595 Btuh  |
| Walls         | Type                     |      | R-Value/U-Value |      | Area(sqft)        |        |                 | HTM       |          | Load       |
| 1             | Concrete Blk, - Ext      |      | 13.0/0.09       |      | 3084.0            |        |                 | 1.3       |          | 4046 Btuh  |
|               | Wall Total               |      |                 |      | 3084 (sqft)       |        |                 |           |          | 4046 Btuh  |
| Doors         | Type                     |      |                 |      | Area (sqft)       |        |                 | HTM       |          | Load       |
| 1             | Insulated - Exterior     |      |                 |      | 75.0              |        |                 | 9.8       |          | 735 Btuh   |
|               | Door Total               |      |                 |      | 75 (sqft)         |        |                 |           |          | 735 Btuh   |
| Ceilings      | Type/Color/Surface       |      | R-Value         |      | Area(sqft)        |        |                 | HTM       |          | Load       |
| 1             | Vented Attic/Light/Metal |      | 30.0            |      | 3416.0            |        |                 | 1.3       |          | 4569 Btuh  |
|               | Ceiling Total            |      |                 |      | 3416 (sqft)       |        |                 |           |          | 4569 Btuh  |
| Floors        | Type                     |      | R-Value         |      | Size              |        |                 | HTM       |          | Load       |
| 1             | Slab On Grade            |      | 0.0             |      | 389 (ft(p))       |        |                 | 0.0       |          | 0 Btuh     |
|               | Floor Total              |      |                 |      | 389.0 (sqft)      |        |                 |           |          | 0 Btuh     |
|               | Envelope Subtotal:       |      |                 |      |                   |        |                 |           |          | 16945 Btuh |
| Infiltration  | Type                     |      | ACH             |      | Volume(cuft)      |        | wall area(sqft) |           | CFM=     | Load       |
|               | SensibleNatural          |      | 0.16            |      | 34160             |        | 3084            |           | 182.2    | 1695 Btuh  |
| Internal gain |                          |      | Occupants       |      | Btuh/occupant     |        |                 | Appliance |          | Load       |
|               |                          |      | 4               |      | X 230 +           |        |                 | 2400      |          | 3320 Btuh  |
|               | Sensible Envelope Load:  |      |                 |      |                   |        |                 |           |          | 21960 Btuh |
| Duct load     | (DGM of 0.000)           |      |                 |      |                   |        |                 |           |          | 0 Btuh     |
|               | Sensible Load All Zones  |      |                 |      |                   |        |                 |           |          | 21960 Btuh |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

11/5/2007

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>21960 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>21960 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>21960 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 3329 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 0 Btuh            |
|                                           | Latent occupant gain (4 people @ 200 Btuh per person)     | 800 Btuh          |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>4129 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>26089 Btuh</b> |

### EQUIPMENT

|                 |   |            |
|-----------------|---|------------|
| 1. Central Unit | # | 64000 Btuh |
|-----------------|---|------------|

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



Version 8  
For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

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

11/5/2007

### Component Loads for Zone #1: Main

| Window                  | Type*                                                                | Ornt            | Overhang      |              | Window Area(sqft) |                 |          | HTM       |           | Load       |
|-------------------------|----------------------------------------------------------------------|-----------------|---------------|--------------|-------------------|-----------------|----------|-----------|-----------|------------|
|                         | Pn/SHGC/U/InSh/ExSh/IS                                               |                 | Len           | Hgt          | Gross             | Shaded          | Unshaded | Shaded    | Unshaded  |            |
| 1                       | 2, Clear, 0.87, B-D, N,F                                             | N               | 1ft.          | 6ft.         | 16.0              | 0.0             | 16.0     | 19        | 19        | 299 Btuh   |
| 2                       | 2, Clear, 0.87, B-D, N,F                                             | S               | 1ft.          | 6ft.         | 60.0              | 60.0            | 0.0      | 19        | 23        | 1121 Btuh  |
| 3                       | 2, Clear, 0.87, B-D, N,F                                             | S               | 8ft.          | 6ft.         | 90.0              | 90.0            | 0.0      | 19        | 23        | 1681 Btuh  |
| 4                       | 2, Clear, 0.87, B-D, N,F                                             | E               | 1ft.          | 6ft.         | 30.0              | 0.0             | 30.0     | 19        | 55        | 1663 Btuh  |
| 5                       | 2, Clear, 0.87, B-D, N,F                                             | N               | 1ft.          | 6ft.         | 15.0              | 0.0             | 15.0     | 19        | 19        | 280 Btuh   |
| 6                       | 2, Clear, 0.87, B-D, N,F                                             | W               | 1ft.          | 6ft.         | 16.0              | 0.0             | 16.0     | 19        | 55        | 887 Btuh   |
| 7                       | 2, Clear, 0.87, B-D, N,F                                             | W               | 1ft.          | 6ft.         | 30.0              | 0.0             | 30.0     | 19        | 55        | 1663 Btuh  |
| Window Total            |                                                                      |                 |               |              | 257 (sqft)        |                 |          |           |           | 7595 Btuh  |
| Walls                   | Type                                                                 | R-Value/U-Value |               | Area(sqft)   |                   | HTM             |          | Load      |           |            |
|                         | 1 Concrete Blk, - Ext                                                | 13.0/0.09       |               | 3084.0       |                   | 1.3             |          | 4046 Btuh |           |            |
| Wall Total              |                                                                      |                 |               |              | 3084 (sqft)       |                 |          | 4046 Btuh |           |            |
| Doors                   | Type                                                                 |                 |               | Area (sqft)  |                   | HTM             |          | Load      |           |            |
|                         | 1 Insulated - Exterior                                               |                 |               | 75.0         |                   | 9.8             |          | 735 Btuh  |           |            |
| Door Total              |                                                                      |                 |               |              | 75 (sqft)         |                 |          | 735 Btuh  |           |            |
| Ceilings                | Type/Color/Surface                                                   | R-Value         |               | Area(sqft)   |                   | HTM             |          | Load      |           |            |
|                         | 1 Vented Attic/Light/Metal                                           | 30.0            |               | 3416.0       |                   | 1.3             |          | 4569 Btuh |           |            |
| Ceiling Total           |                                                                      |                 |               |              | 3416 (sqft)       |                 |          | 4569 Btuh |           |            |
| Floors                  | Type                                                                 | R-Value         |               | Size         |                   | HTM             |          | Load      |           |            |
|                         | 1 Slab On Grade                                                      | 0.0             |               | 389 (ft(p))  |                   | 0.0             |          | 0 Btuh    |           |            |
| Floor Total             |                                                                      |                 |               |              | 389.0 (sqft)      |                 |          | 0 Btuh    |           |            |
| Zone Envelope Subtotal: |                                                                      |                 |               |              |                   |                 |          |           |           | 16945 Btuh |
| Infiltration            | Type                                                                 | ACH             |               | Volume(cuft) |                   | wall area(sqft) |          | CFM=      |           | Load       |
|                         | SensibleNatural                                                      | 0.16            |               | 34160        |                   | 3084            |          | 91.1      |           | 1695 Btuh  |
| Internal gain           | Occupants                                                            |                 | Btuh/occupant |              | Appliance         |                 | Load     |           |           |            |
|                         | 4                                                                    |                 | X 230         |              | +                 |                 | 2400     |           | 3320 Btuh |            |
| Sensible Envelope Load: |                                                                      |                 |               |              |                   |                 |          |           |           | 21960 Btuh |
| Duct load               | Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond) (DGM of 0.000) |                 |               |              |                   |                 |          |           | 0 Btuh    |            |
| Sensible Zone Load      |                                                                      |                 |               |              |                   |                 |          |           |           | 21960 Btuh |



# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

11/5/2007

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>21960 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>21960 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>21960 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 3329 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 0 Btuh            |
|                                           | Latent occupant gain (4 people @ 200 Btuh per person)     | 800 Btuh          |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>4129 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>26089 Btuh</b> |

### EQUIPMENT

|                 |   |            |
|-----------------|---|------------|
| 1. Central Unit | # | 64000 Btuh |
|-----------------|---|------------|

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



Version 8  
For Florida residences only

# Residential Window Diversity

## MidSummer

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

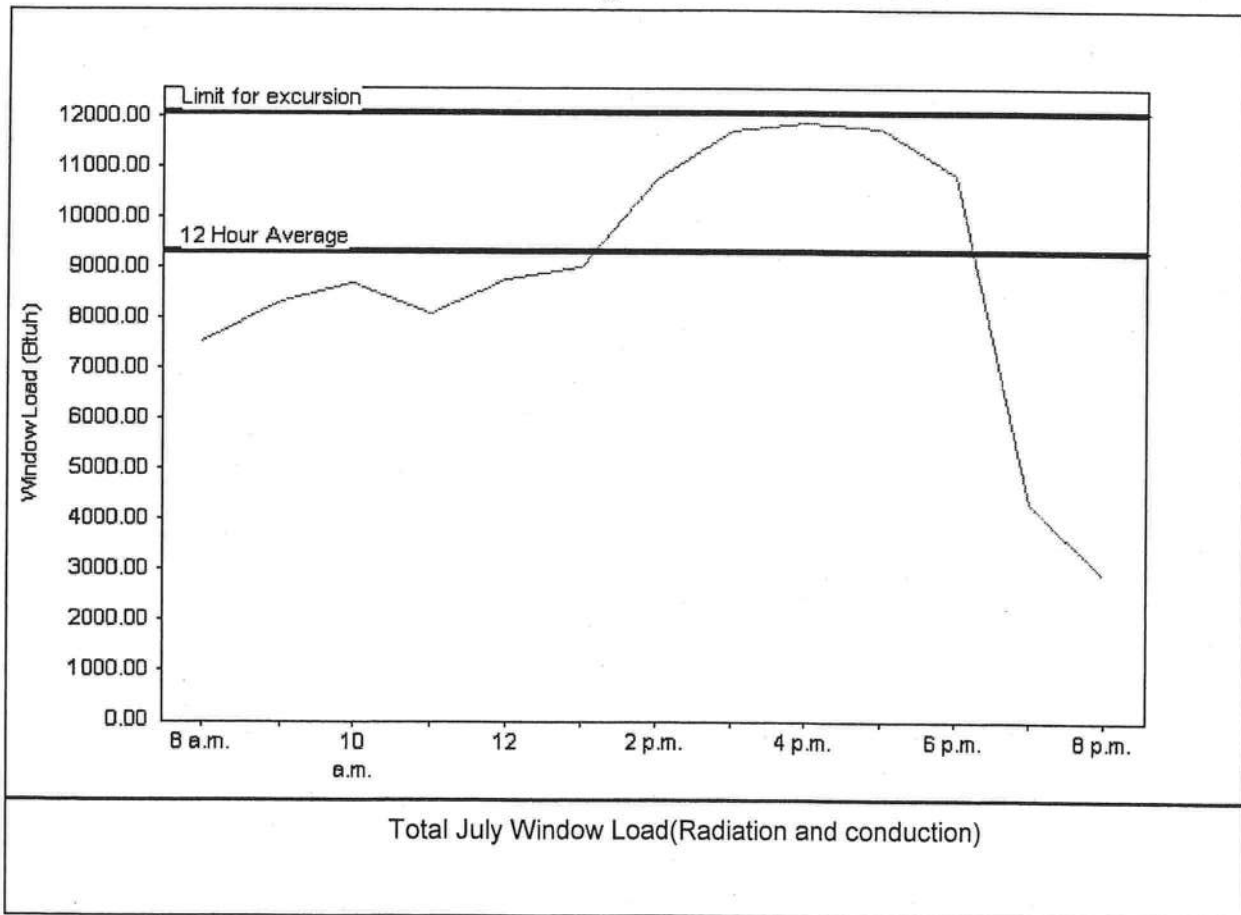
Code Only  
Professional Version  
Climate: North

11/5/2007

Weather data for: Gainesville - Defaults

|                               |          |                               |           |
|-------------------------------|----------|-------------------------------|-----------|
| Summer design temperature     | 92 F     | Average window load for July  | 9315 Btuh |
| Summer setpoint               | 75 F     | Peak window load for July     | 11883 Btu |
| Summer temperature difference | 17 F     | Excursion limit(130% of Ave.) | 12109 Btu |
| Latitude                      | 29 North | Window excursion (July)       | None      |

## WINDOW Average and Peak Loads



The midsummer window load for this house does not exceed the window load excursion limit.  
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: Debbie Motes

DATE: 11-6-07

EnergyGauge® FLRCPB v4.5.2





BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

## NOTICE OF ACCEPTANCE (NOA)

MI Home Products, Inc.  
650 West Market Street  
Gratz, PA 17030

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "BetterBilt D185SH/D3185SH" Aluminum Single Hung Window

**APPROVAL DOCUMENT:** Drawing No. S-2422, titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING:** None

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



NOA No 03-1215.02  
Expiration Date: March 04, 2009  
Approval Date: March 04, 2004  
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **S-2422**, titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E.

**B. TESTS**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI 03056**, dated 11/11/03, signed by Joseph A. Reed, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 12/11/03, signed and sealed by Lyndon F. Schmidt, P.E.
2. Revised Anchor Calculations, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 02/10/04, signed and sealed by Lyndon F. Schmidt, P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

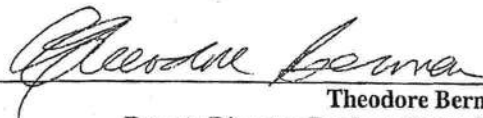
1. None.

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated December 09, 2003, signed and sealed by Lyndon F. Schmidt, P.E.
2. Statement letter of no financial interest with the laboratory that performed the Test Report No. **ATI 03056**, dated November 08, 2003, signed by Stu White, Design Engineering Manager.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

  
Theodore Berman, P.E.  
Deputy Director, Product Control Division  
NOA No 03-1215.02  
Expiration Date: March 04, 2009  
Approval Date: March 04, 2004





650 WEST MARKET STREET • GRATZ, PA • 17030-0370

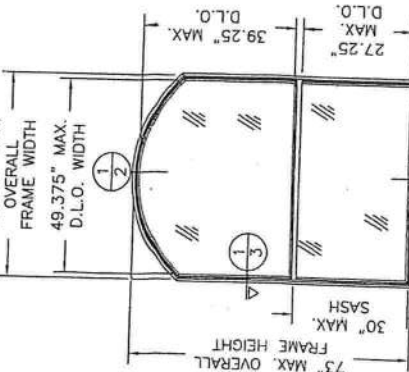
SERIES BETTERBILT D185SH/D3185SH

ALUMINUM SINGLE HUNG WINDOW

#### GENERAL NOTES:

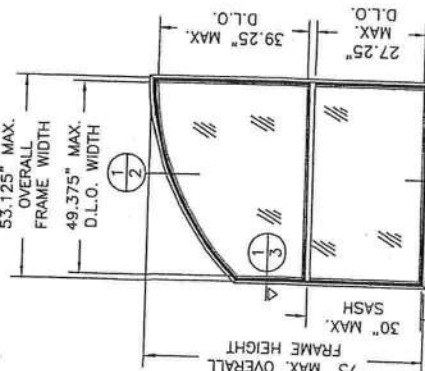
1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE "HVHZ" OF THE FLORIDA BUILDING CODE.
2. WOOD BUCKS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. FOR DESIGN PRESSURE RATING SEE TABLE THIS SHEET.
5. INSTALLATION OF THIS SYSTEM IN HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTER/EXTERNAL PROTECTION DEVICE COMPLYING WITH HVHZ REQUIREMENTS; INSTALLATION OF THIS SYSTEM OUTSIDE OF HVHZ SHALL MEET THE APPLICABLE CODE REQUIREMENTS FOR WINDBORNE DEBRIS PROTECTION.
6. THIS PRODUCT MEETS WATER REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES.

53.125" MAX.  
OVERALL  
FRAME WIDTH



53" x 73" SINGLE HUNG WINDOW  
CIRCLE TOP ORIEL

53.125" MAX.  
OVERALL  
FRAME WIDTH



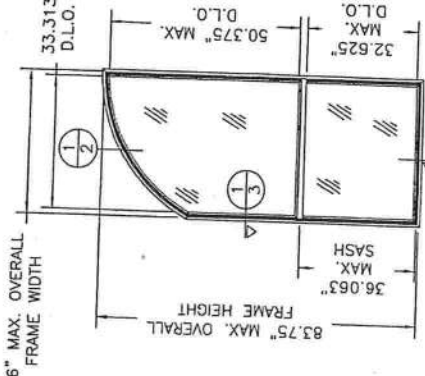
53" x 73" SINGLE HUNG WINDOW  
HALF CIRCLE TOP ORIEL

36" MAX. OVERALL  
FRAME WIDTH



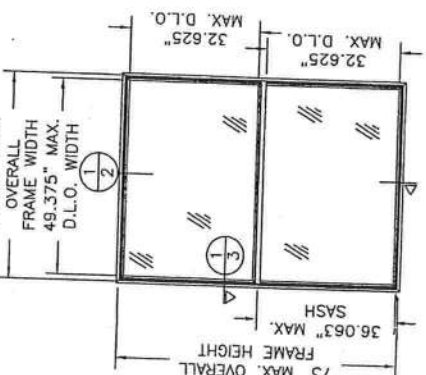
37" x 84" SINGLE HUNG WINDOW  
CIRCLE TOP ORIEL

36" MAX. OVERALL  
FRAME WIDTH



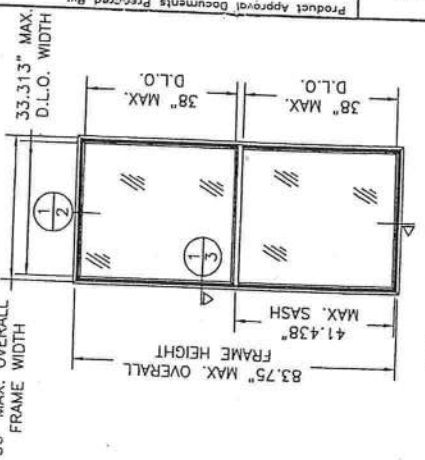
37" x 84" SINGLE HUNG WINDOW  
HALF CIRCLE TOP ORIEL

53.125" MAX.  
OVERALL  
FRAME WIDTH



53" x 73" SINGLE HUNG WINDOW

36" MAX. OVERALL  
FRAME WIDTH



37" x 84" SINGLE HUNG WINDOW

| SHEET # | DESCRIPTION                                |
|---------|--------------------------------------------|
| 1       | GENERAL NOTES & TYPICAL ELEVATIONS         |
| 2       | VERTICAL CROSS SECTIONS                    |
| 3       | HORIZONTAL CROSS SECTIONS & GLAZING DETAIL |
| 4       | ANCHORING LOCATIONS                        |
| 5       | COMPONENTS, BILL OF MATERIALS              |

| GLASS      | MAX. SIZE    | DP POS. | DP NEG. |
|------------|--------------|---------|---------|
| 1/8" Temp. | OA 53" x 73" | +56.7   | -89.3   |
| 1/8" Temp. | OA 37" x 84" | +56.7   | -89.3   |
| 3/16" Ann. | OA 53" x 73" | +42.0   | -42.0   |
| 3/16" Ann. | OA 37" x 84" | +56.7   | -58.0   |

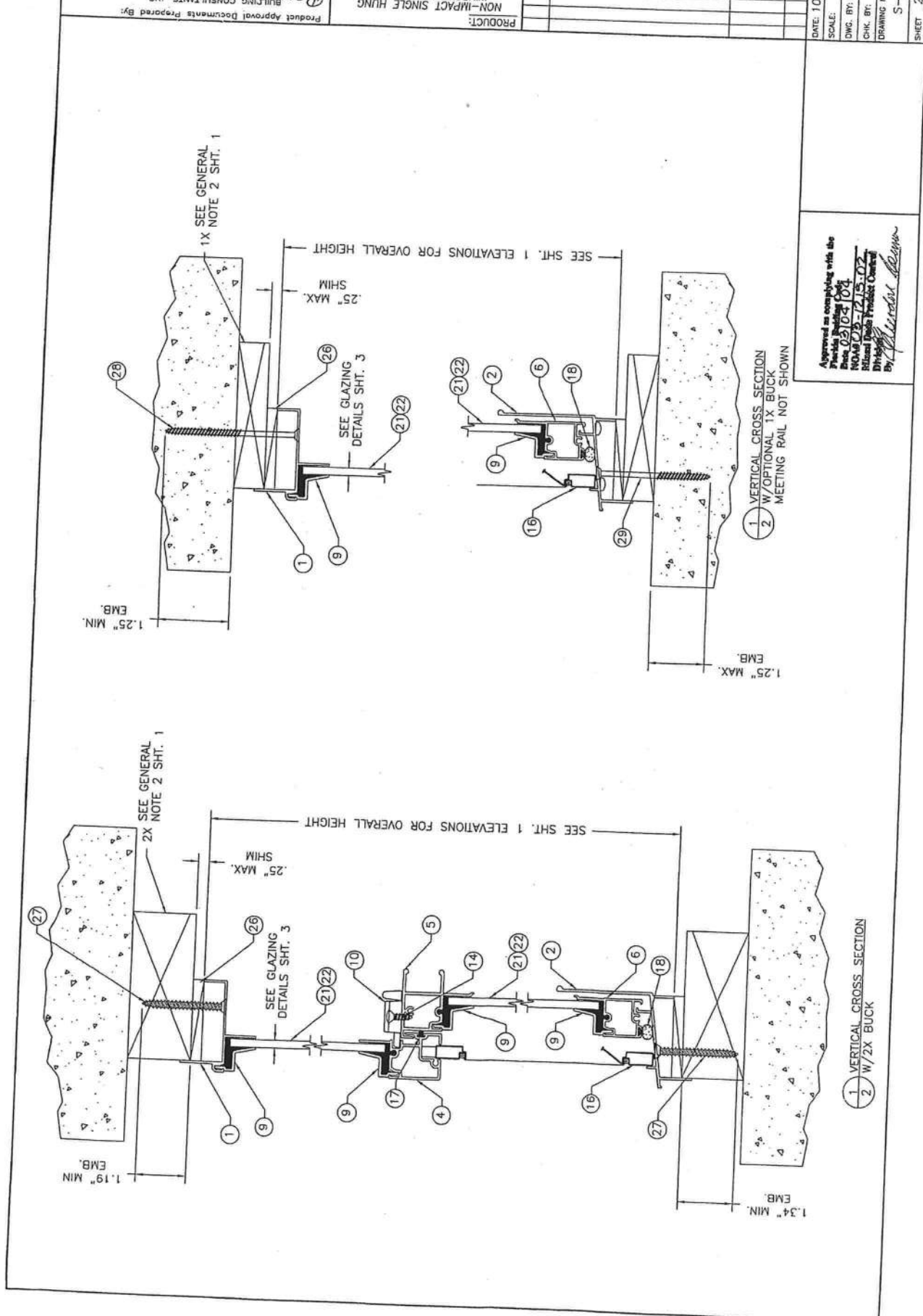
ALL ELEVATIONS ARE VIEWED FROM EXTERIOR

Approved as required with the  
Florida Building Code  
Date: 03/03/04  
NAME: J. J. H. H.  
MI Home Products, Inc.  
By: J. J. H. H.  
Drawing No.: S-2422

DATE: 10/27/03  
SCALE: N.T.S.  
DWG. BY: T.J.H.  
CHK. BY: R.W.  
DRAWING NO.: S-2422  
SHEET 1 OF 5

PRODUCT: NON-IMPACT SINGLE HUNG WINDOW RECTANGLE  
PART OR ASSEMBLY: CIRCLE TOP & ORIEL  
BY: WH  
REVISIONS: CORRECT DP TABLE  
GENERAL NOTES & TYPICAL ELEVATIONS

Product Approval Documents Prepared By:  
BUILDING CONSULTANTS, INC.  
P.O. Box 230 Venice FL 33595  
Phone No.: 813.889.9197  
Florida Board of Professional Engineers  
Certificate of Authorization No. 9813  
2/10/04  
Wendell H. H. H. P.E. No. 54158

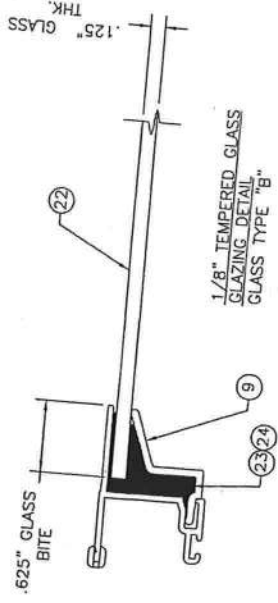
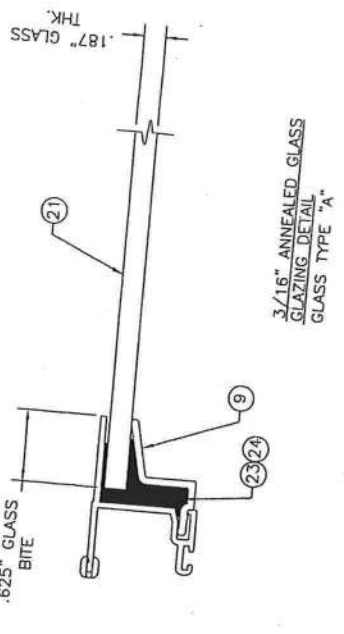


|              |  |                     |  |              |  |                 |  |             |  |                                         |  |
|--------------|--|---------------------|--|--------------|--|-----------------|--|-------------|--|-----------------------------------------|--|
| SHEET 2 OF 5 |  | DRAWING NO.: S-2422 |  | DATE: N.T.S. |  | DWG. BY: T.J.H. |  | CHK. BY: RW |  | DATE: 10/27/03                          |  |
|              |  |                     |  |              |  |                 |  |             |  | NO. 1                                   |  |
|              |  |                     |  |              |  |                 |  |             |  | DATE 01/04                              |  |
|              |  |                     |  |              |  |                 |  |             |  | REVISED PER DATE LETTER                 |  |
|              |  |                     |  |              |  |                 |  |             |  | WH                                      |  |
|              |  |                     |  |              |  |                 |  |             |  | BY                                      |  |
|              |  |                     |  |              |  |                 |  |             |  | PART OR ASSEMBLY:                       |  |
|              |  |                     |  |              |  |                 |  |             |  | VERTICAL                                |  |
|              |  |                     |  |              |  |                 |  |             |  | CROSS SECTIONS                          |  |
|              |  |                     |  |              |  |                 |  |             |  | PRODUCT:                                |  |
|              |  |                     |  |              |  |                 |  |             |  | NON-IMPACT SINGLE HUNG                  |  |
|              |  |                     |  |              |  |                 |  |             |  | WINDOWS RECTANGLE,                      |  |
|              |  |                     |  |              |  |                 |  |             |  | CIRCLE TOP & OREAL                      |  |
|              |  |                     |  |              |  |                 |  |             |  | RW                                      |  |
|              |  |                     |  |              |  |                 |  |             |  | Product Approval Documents Prepared By: |  |
|              |  |                     |  |              |  |                 |  |             |  | BUILDING CONSULTANTS, INC.              |  |
|              |  |                     |  |              |  |                 |  |             |  | P.O. Box 230 Vero Beach, FL 33595       |  |
|              |  |                     |  |              |  |                 |  |             |  | Phone No.: 813.659.9197                 |  |
|              |  |                     |  |              |  |                 |  |             |  | Florida Board of Professional Engineers |  |
|              |  |                     |  |              |  |                 |  |             |  | Certificate of Authorization No. 9813   |  |
|              |  |                     |  |              |  |                 |  |             |  | Wendell H. Hanks, P.E. No. 54158        |  |
|              |  |                     |  |              |  |                 |  |             |  | 2/10/04                                 |  |

Product Approval Documents Prepared By: *R.W.*  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Venice, FL 33595  
 Phone No.: 813.659.9197  
 Florida Board of Professional Engineers  
 Certificate of Authorization No. 9813  
 2/10/04

Approved as complying with the  
 Florida Building Code  
 NO. 10-1215-02  
 Division 5 Product Control  
 By: *M. J. J. J.*

|                                                                                                             |  |                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE<br>PART OR ASSEMBLY: CIRCLE TOP & ORIAL                   |  | REVISIONS<br>NO. DATE<br>1 01/04<br>2 2/10/04<br>3 10/27/03                         |  |
| HORIZONTAL CROSS SECTIONS & GLAZING DETAILS<br>BY: [Signature]<br>CHECKED BY: [Signature]<br>DATE: 10/27/03 |  | SCALE: N.T.S.<br>DWE. BY: TJH<br>CHK. BY: RW<br>DRAWING NO.: S-2422<br>SHEET 3 OF 5 |  |

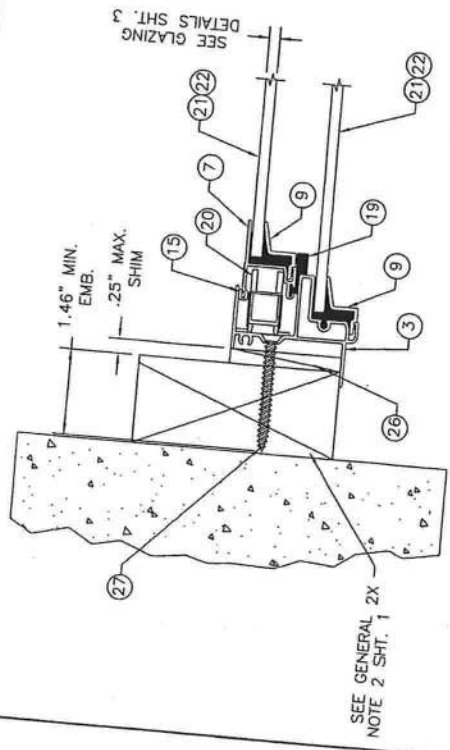


NOTES:

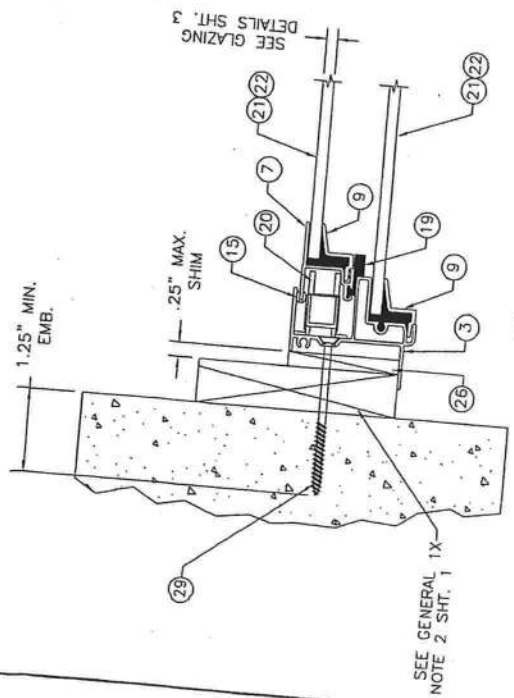
1. THE MAIN FRAME HEAD, SIDES AND SILL ARE CONNECTED TOGETHER AT EACH CORNER WITH (2) ITEM #11, A #8 x 3/4" PHILLIPS PAN HEAD SCREW. THE SCREWS RUN FROM THE HEAD DOWN INTO THE SIDES AND FROM THE SILL UP INTO THE SIDES.
2. THE FIXED MEETING RAIL IS SECURED TO THE SIDES WITH (2) EACH SIDE ITEM #12, A #8 x 1 1/4" PHILLIPS PAN HEAD SCREW.
3. THE SASH CORNERS ARE CONNECTED TOGETHER WITH (2) EACH CORNER ITEM #13, A #6 x 3/4" PHILLIPS PAN HEAD SCREW.

Approved as complying with the provisions of the Florida Building Code, Chapter 6, Part 1, Section 601.1, Minimum Product Criteria.

By: [Signature]  
 Title: [Signature]  
 Date: 10/27/03



1 HORIZONTAL CROSS SECTION  
3 W/2X BUCK



1 HORIZONTAL CROSS SECTION  
3 W/1X BUCK

1 HORIZONTAL CROSS SECTION  
3 SHOWING SASH CAM MASONRY & BUCK NOT SHOWN







## **NOTICE OF ACCEPTANCE (NOA)**

**Therma-Tru Corporation**  
**108 Mutzfeld Road**  
**Butler, IN 46721**

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee (BCPRC) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCPRC reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

### **DESCRIPTION: Outswing Glazed Residential Steel Door w/Sidelites**

**APPROVAL DOCUMENT:** Drawing No. S-2003, titled "Therma-Tru Wood edge Outswing", sheets 1 through 6 to 6, prepared by RW Consulting, dated 3/9/01, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

### **MISSILE IMPACT RATING: None**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 00-0207.06 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



**NOA No 02-0418.01**  
**Expiration Date: April 05, 2007**  
**Approval Date: May 23, 2002**  
**Page 1**

# **THERMA-TRU®**

"CONSTRUCTION" AND "PREMIUM" SERIES  
INSULATED STEEL DOOR WITH WOOD FRAMES.

## **GENERAL NOTES**

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED.
5. DESIGNED PRESSURE RATING SEE TABLE PAGE 1.
6. SIDELITES ARE AN OPTION AND CAN BE IN A SINGLE OR DOUBLE CONFIGURATION.

## **RESIDENTIAL INSULATED STEEL DOOR** (Common to all frame conditions)

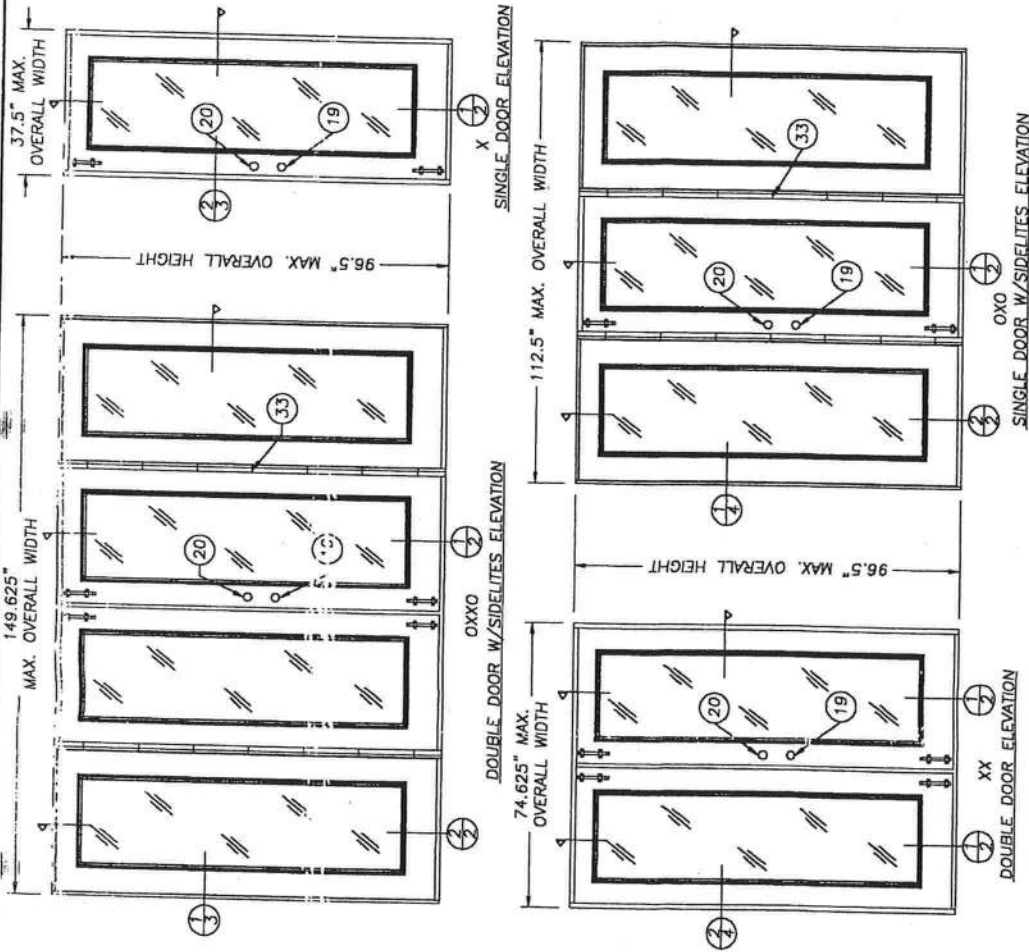
**Door Leaf Construction:**  
Face sheets: 25 GA.(0.018") minimum thickness.  
Galvanized steel A-525 commercial quality - AKOO per ASTM 620 with yield strength  $F_y(\min.) = 47,000$  psi  
Core design: Polyurethane foam core, with 1.9 lbs. density by BASF.  
Construction: Flush or embossed type. The vertical edges of the skin, are rolled formed to provide a mechanical interlock with finger jointed pine stiles. Wood composite end rails are butt jointed to stiles at corners. Panels are sandwich glazed using a two piece PVC lite frame with mitered & welded corners.

TABLE OF CONTENTS

| SHEET # | DESCRIPTION                                 |
|---------|---------------------------------------------|
| 1       | COMMON (GENERAL NOTES, TYPICAL ELEVATION)   |
| 2       | VERTICAL CROSS SECTIONS & BILL OF MATERIALS |
| 3       | HORIZONTAL CROSS SECTIONS & DOOR MODELS     |
| 4       | HORIZONTAL CROSS SECTIONS & GLAZING DETAILS |
| 5       | ANCHORING LOCATIONS                         |
| 6       |                                             |

## **DESIGN PRESSURE RATING**

|                                                |            |
|------------------------------------------------|------------|
| WHERE WATER INFILTRATION REQUIREMENT IS NEEDED |            |
| POSITIVE                                       | + 48.0 PSF |
| NEGATIVE                                       | - 51.0 PSF |



ALL DOOR MODELS ARE VIEWED FROM THE INTERIOR SIDE (OUTSWING DOORS)

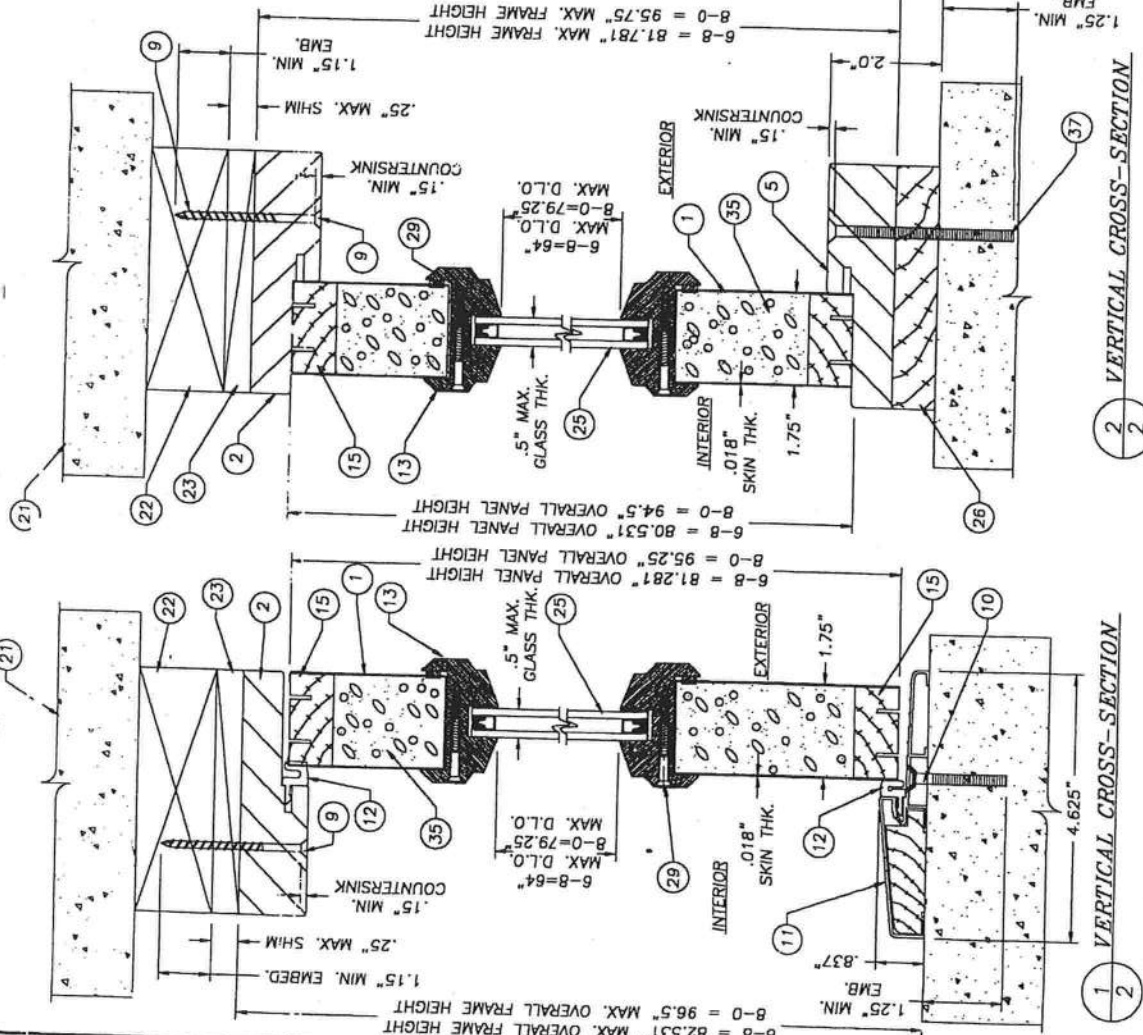
PRODUCT REVIEWED as complying with the Florida Building Code Acceptance No. 02-2418 (3) Expiration Date 02/28/27  
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE 4/11/00 BY 13149 1-2/14/00  
DATE: 3/3/00 SCALE: N.T.S.  
DWG. BY: TJH CHK. BY: RW  
DRAWING NO.: S-2003  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 02-2418 (3)

THERMA-TRU®  
108 MUTZFELD RD.  
BUTLER, IN 46721  
PH. (219) 868-5811

| ELEVATIONS AND PART OR ASSEMBLY                               |         | REVISIONS        |         |
|---------------------------------------------------------------|---------|------------------|---------|
| BY                                                            | DATE    | NO.              | DATE    |
| TJH                                                           | 4/11/00 | 1                | 4/11/00 |
| RW                                                            | 3/09/01 | 2                | 3/09/01 |
| GENERAL REVISION                                              |         | GENERAL REVISION |         |
| THREMA TRU WOODEDGE OUTSWING UP TO 12-0 X 8-0 W/3-0 SIDELITES |         |                  |         |
| GENERAL NOTES                                                 |         |                  |         |

RW BUILDING CONSULTANTS, INC.  
813.684.3531

| Item | DESCRIPTION                                    | MATERIAL   |
|------|------------------------------------------------|------------|
| 1    | CONSTRUCT. SERIES DOOR (25GA. 0.18" MIN.)      | STEEL      |
| 2    | 4 1/2" LATCH JAMB (THERMA-TRU)                 | WOOD       |
| 3    | 4 1/2" LATCH JAMB (THERMA-TRU, PONDEROSA PINE) | WOOD       |
| 4    | 4 1/2" HINGE JAMB (THERMA-TRU, PONDEROSA PINE) | WOOD       |
| 5    | 4 1/2" HINGE JAMB (THERMA-TRU, PONDEROSA PINE) | WOOD       |
| 6    | 4" x 4" HINGE .097" THK. (THERMA-TRU)          | STEEL      |
| 7    | #9 x 3/4" LG. (Hinge to Frame)                 | STEEL      |
| 8    | #10 WOOD SCREW X 2 1/2" LG.                    | STEEL      |
| 9    | #8 x 2 1/2" LG. WOOD SCREW                     | STEEL      |
| 10   | 3/16" TAPCON ANCHOR (ELCO, 1.75" MIN. LG.)     | STEEL      |
| 11   | ONE PIECE BUMP FACE THRESHOLD (THERMA-TRU)     | ALUM./WOOD |
| 12   | COMPRESSION WEATHERSTRIP (THERMA-TRU)          | STEEL      |
| 13   | PLASTIC LIP LIFE FRAME (PVC, THERMA-TRU)       | PVC        |
| 14   | #10 x 1 1/4" LG. TYPE "A" FLATHEAD             | STEEL      |
| 15   | TOP & BOTTOM RAIL (1.75" x 1.625")             | WOOD       |
| 16   | BLANK SIDE STYLE (THERMA-TRU, PONDEROSA PINE)  | WOOD       |
| 17   | #8 x 1 1/2" LG. TYPE "AB" PANHEAD              | STEEL      |
| 18   | #10 WOOD SCREW X 2" LG.                        | STEEL      |
| 19   | KWIKSET 200 DL PASSAGE                         | STEEL      |
| 20   | KWIKSET 660 DEADBOLT                           | STEEL      |
| 21   | MASONRY WALL                                   | WOOD       |
| 22   | 2x WOOD BUCK                                   | WOOD       |
| 23   | MAX. 1/4" SHIM MATERIAL                        | WOOD       |
| 24   | ASTRAGAL (.052" WALL THK.)                     | WOOD/ALUM. |
| 25   | GLAZING, 1/2" INSULATED TEMPERED GLASS         | GLASS      |
| 26   | 3/4" THK. PRESSURE TREATED SIDELITE PAD        | WOOD       |
| 27   | #12 x 1/2" LG. PANHEAD SHEET METAL SCREW       | STEEL      |
| 28   | ASTRAGAL WEATHERSTRIP                          | STEEL      |
| 29   | #6-18 x 1 3/4" PHILLIPS FLATHEAD SCREW         | VINYL      |
| 30   | #9 x 1" LG. PHILLIPS FLATHEAD SCREW            | STEEL      |
| 31   | LATCH SIDE STYLE (THERMA-TRU, PONDEROSA PINE)  | STEEL      |
| 32   | HINGE SIDE STYLE (THERMA-TRU, PONDEROSA PINE)  | WOOD       |
| 33   | CORRUGATED STAPLE FASTENER (1 1/2" x 3/4")     | STEEL      |
| 34   | LOCK BLOCK (4" x 11" x 1.625")                 | WOOD       |
| 35   | POLYURETHANE FOAM (BASF, 1.9lbs. DENSITY)      | FOAM       |
| 36   | IVES SURFACE BOLT (.25" STEEL)                 | STEEL      |
| 37   | 3/16" TAPCON ANCHOR (ELCO, 3.25" MIN. LG.)     | STEEL      |
| 38   | 1/8" THK. CELLULAR GLAZING TAPE (STIK-II TAPE) | —          |



NOTE:  
SIDELITE IS DIRECT SET INTO JAMB WITH  
#10 x 2" PH.F.H. WOOD SCREWS AT 6"  
FROM EACH END AND A MAX. OF 12"  
O.C. ON VERTICAL LEG JAMBS ONLY.

THERMA-TRU®  
108 MUTZFELD RD.  
BUTLER, IN 46721  
PH. (219) 868-5811

| PRODUCT:          | THERMA TRU WOODDOGE<br>OUTSWING UP TO 12-0 x<br>B-0 W/3-0 SIDELITES |
|-------------------|---------------------------------------------------------------------|
| PART OR ASSEMBLY: | VERTICAL CROSS SECTIONS<br>& BILL OF MATERIALS                      |
| REVISIONS         | BY DATE                                                             |
| 1                 | 4/11/00                                                             |
| 2                 | 3/09/01                                                             |
| 3                 | 3/09/01                                                             |
| 4                 | 3/09/01                                                             |
| 5                 | 3/09/01                                                             |
| 6                 | 3/09/01                                                             |
| 7                 | 3/09/01                                                             |
| 8                 | 3/09/01                                                             |
| 9                 | 3/09/01                                                             |
| 10                | 3/09/01                                                             |
| 11                | 3/09/01                                                             |
| 12                | 3/09/01                                                             |
| 13                | 3/09/01                                                             |
| 14                | 3/09/01                                                             |
| 15                | 3/09/01                                                             |
| 16                | 3/09/01                                                             |
| 17                | 3/09/01                                                             |
| 18                | 3/09/01                                                             |
| 19                | 3/09/01                                                             |
| 20                | 3/09/01                                                             |
| 21                | 3/09/01                                                             |
| 22                | 3/09/01                                                             |
| 23                | 3/09/01                                                             |
| 24                | 3/09/01                                                             |
| 25                | 3/09/01                                                             |
| 26                | 3/09/01                                                             |
| 27                | 3/09/01                                                             |
| 28                | 3/09/01                                                             |
| 29                | 3/09/01                                                             |
| 30                | 3/09/01                                                             |
| 31                | 3/09/01                                                             |
| 32                | 3/09/01                                                             |
| 33                | 3/09/01                                                             |
| 34                | 3/09/01                                                             |
| 35                | 3/09/01                                                             |
| 36                | 3/09/01                                                             |
| 37                | 3/09/01                                                             |
| 38                | 3/09/01                                                             |

BW BUILDING  
CONSULTANTS, INC.  
813.684.3831

|              |        |
|--------------|--------|
| DATE:        | 3/3/00 |
| SCALE:       | N.T.S. |
| DWG. BY:     | TJH    |
| CHK. BY:     | RW     |
| DRAWING NO.: | S-2003 |
| SHEET        | 2 OF 6 |

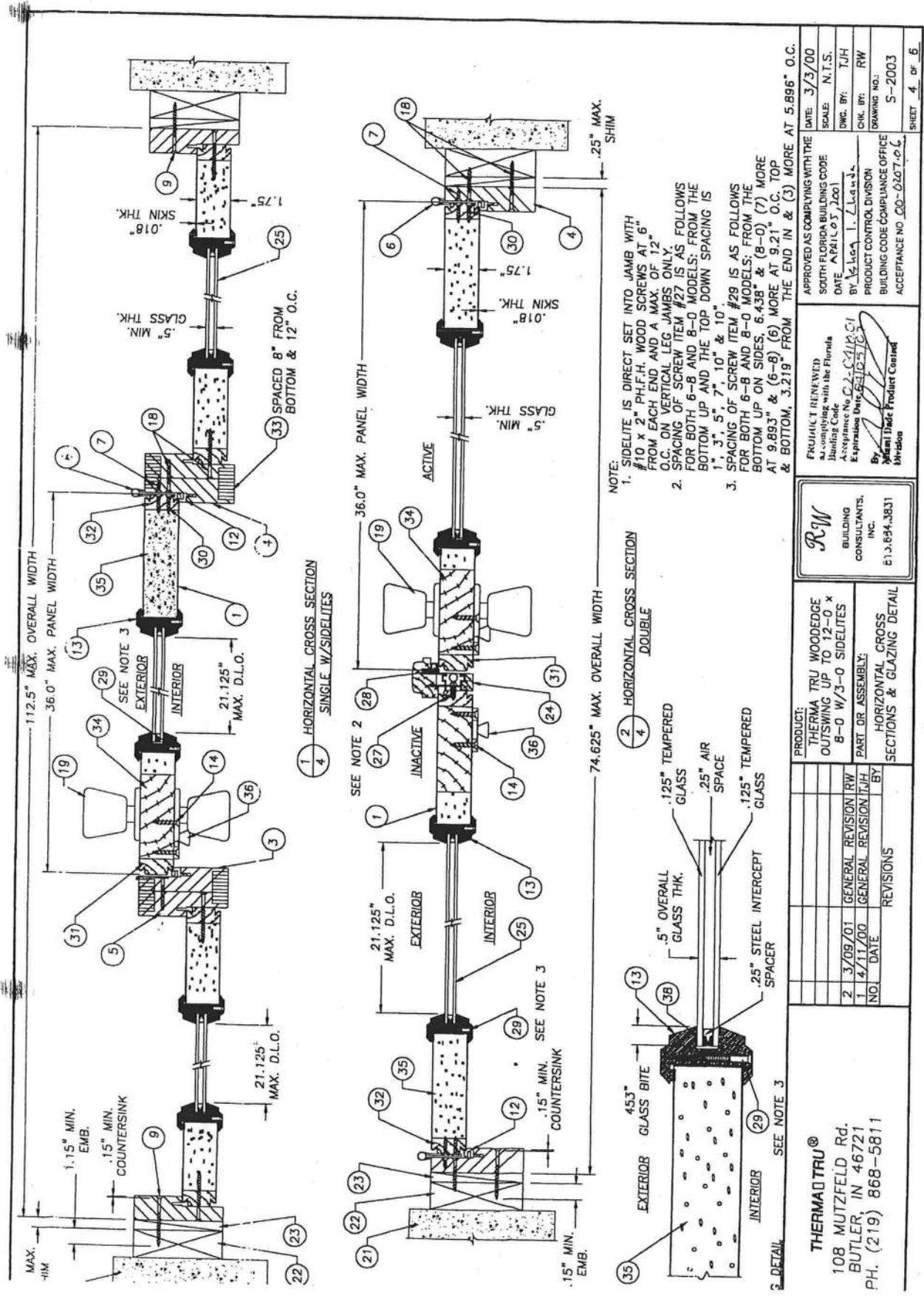
APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE 12/11/01 BY 12/11/01  
BY 12/11/01  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 20-0307-06

PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 20-0307-06  
Expiration Date 12/11/01  
By 12/11/01  
Florida Building Code Product Control  
Division

1 VERTICAL CROSS-SECTION  
2 VERTICAL CROSS-SECTION







**THERMA TRU®**  
108 MUTZFELD Rd.  
BUTLER, IN 46721  
PH. (219) 868-5811

| REVISIONS |         |
|-----------|---------|
| NO.       | DATE    |
| 2         | 3/09/01 |
| 1         | 4/11/00 |

PRODUCT:  
THERMA TRU WOODEDGE  
OUTSWING UP TO 12'-0" x  
8'-0" W/3'-0" SIDELITES

PART OR ASSEMBLY:  
HORIZONTAL CROSS  
SECTIONS & GLAZING DETAIL

**RW**  
BUILDING  
CONSULTANTS,  
INC.  
E13-694-3831

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE: 3/3/00  
SCALE: N.T.S.  
BY: T.J.H.  
CHK. BY: RW  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
DRAWING NO.: S-2003  
ACCEPTANCE NO. 20-0207.06









BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

## NOTICE OF ACCEPTANCE (NOA)

**Clopay Building Products Co.**  
8585 Duke Blvd.  
Mason, OH 45040

**SCOPE:** This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone.

**DESCRIPTION:** Sectional Garage Door 16'- 2" Wide.

**APPROVAL DOCUMENT:** Drawing No. 101300, titled "Double Car Hurricane Pan Door", dated 02/15/95 with last revision on 01/06/04, sheets 1 and 2 of 2, prepared by Clopay Building Products Co, signed and sealed by M. W. Westerfield, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING:** Large and Small Missile Impact

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**LIMITATION:** This approval requires the manufacturer to do testing of all coils used to fabricate door panels under this Notice of Acceptance. A minimum of 2 specimens shall be cut from each coil and tensile tested according to ASTM E-8 by a Dade County approved laboratory selected and paid by the manufacturer. Every 3 months, four times a year, the manufacturer shall mail to this office: a copy of the tested reports with confirmation that the specimen were selected from coils at the manufacturer production facilities. And a notarized statement from the manufacturer that only coils with yield strength of 38000 psi or more shall be used to make door panels for Dade County under this Notice of Acceptance.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 03-0829.05 and consists of this page, evidence page as well as the approval document mentioned above.

The submitted documentation was reviewed by **Candido E. Font PE.**

*Candido E. Font*  
03/23/06



NOA No 05-1212.02  
Expiration Date: March 26, 2007  
Approval Date: March 23, 2006  
Page 1

**Clopay Building Products Co.**

**NOTICE OF ACCEPTANCE: EVIDENCE PAGE**

**A. DRAWINGS**

1. Drawing prepared by Clopay Building Products Co., titled "Double Car Hurricane Pan Door", Drawing No. 101300, dated 02/15/95, with last revision on 01/06/2004, sheets 1 through 2 of 2, signed and sealed by M.W. Westerfield, PE.

**B. TESTS**

1. Test report of large missile impact test per PA 201 and cyclic wind pressure test per PA 203 of "Garage Door", prepared by Hurricane Engineering & Testing, Inc., report No. HETI 95-408, dated 01/25/95, signed and sealed by H. M. Medina, PE.
2. Test report of Uniform Static Air Pressure Test Per PA 202 on "Garage Door", prepared by Hurricane Engineering & Testing, Inc., report No. HETI 95-407, dated 01/24/95, signed and sealed by H. M. Medina, PE.
3. Test report of Forced Entry Resistance per section 3603.2(b)5 on "Garage Door" prepared by Hurricane Engineering Testing, Inc. report No. HETI 95-407f, dated 01/25/95, signed and sealed by H. M. Medina, PE.

**C. CALCULATIONS**

1. Calculations dated 01/20/95; pages 1 and 2, prepared by M. W. Westerfield, PE, signed and sealed by M. W. Westerfield, PE.
2. Calculations dated 02/24/95, page 1, prepared M.W. Westerfield, PE, signed and sealed by M.W. Westerfield, PE.

**D. MATERIAL CERTIFICATIONS**

1. Test report of Tensile Test per ASTM E 8, report No. HETI 94-T59, prepared by Hurricane Engineering & Testing, Inc., dated 02/06/95, signed and sealed by H.M. Medina, PE.
2. Test report of Salt Spray Test per ASTM D1654 & ASTM B117, report No. 9EM-1144, prepared by Q.C. Metallurgical, Inc., dated 06/03/99, signed and sealed by K. Grate.

**E. STATEMENTS.**

1. Affidavit of yield strength compliance prepared by R. D. Shifflett employed by Clopay Building Products Co., notarized on 01/11/2001 by B. H. Schuler.

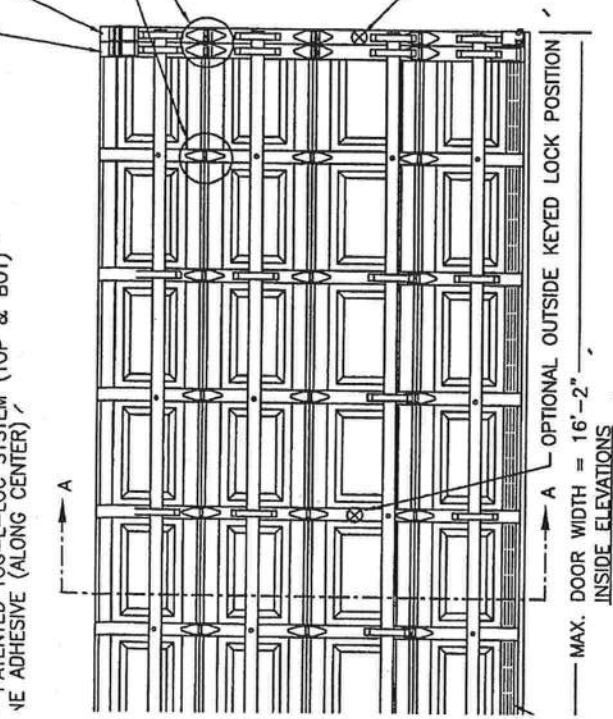
**F. QUALITY ASSURANCE.**

1. Building Code Compliance Office.

  
03/23/06  
Candido F. Font, PE.  
Senior Product Control Division  
NOA No 05-1212.02  
Expiration Date: March 26, 2007  
Approval Date: March 23, 2006

|   |           |             |
|---|-----------|-------------|
| 5 | 8/25/2003 | ADDED EXTEN |
| 6 | 1/6/2004  | JAMB ATTACH |

16 GA. PAINTED END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM (TOP, BOTTOM & CENTER).



PAINTED TOG-L-LOC SYSTEM (TOP & BOT)  
ADHESIVE (ALONG CENTER)

LOCK POSITION (BOTH SIDES) TWO POINT LOCKING HAS BEEN TESTED PER REQUIREMENTS OF SECTION 12.1 OF TAS 202. LOCKS HAVE 5/8" MIN. ENGAGEMENT. DOOR TESTED FOR FORCED ENTRY WITH BOTH OUTSIDE KEYS. LOCK AND INSIDE SLIDE BOLT LOCK OPTIONS (SEE LAYOUT OF EACH LOCK ON NEXT PAGE).

24 GA. DDS STEEL (MIN. YIELD STRENGTH: 38 KSI) EXTERIOR SKIN WITH G-40 GALVANIZING, BAKED-ON PRIMER AND A BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN. (ASTM No. A653).

SHIP LAP JOINTS.

12 GA. GALV. STEEL TOP F EACH BRACKET ATTACHED TO SHEET METAL SCREWS. ADJ TO TOP BRACKET WITH (2) NUTS PER BRACKET.

14 GA. GALV. ROLLER HIN EACH HINGE FASTENED TO STILES W/ (4) #14x5/8" SELF AND (4) 1/4"x3/4" SELF (SEE VIEW "B")

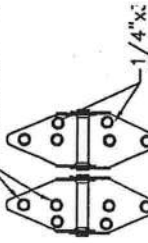
ONE 6" TALL C-CHANNEL F C-CHANNEL ATTACHED AT E (1) 1/4"x3/4" SELF TAPPIN

1-1/4" WIDE x 16 GA. GA DOOR SECTION, EXCEPT (8) SECTION (SEE INSIDE ELEVA WITH (3) 1/4"x3/4" SELF SCREWS TO DOOR, ONE SC

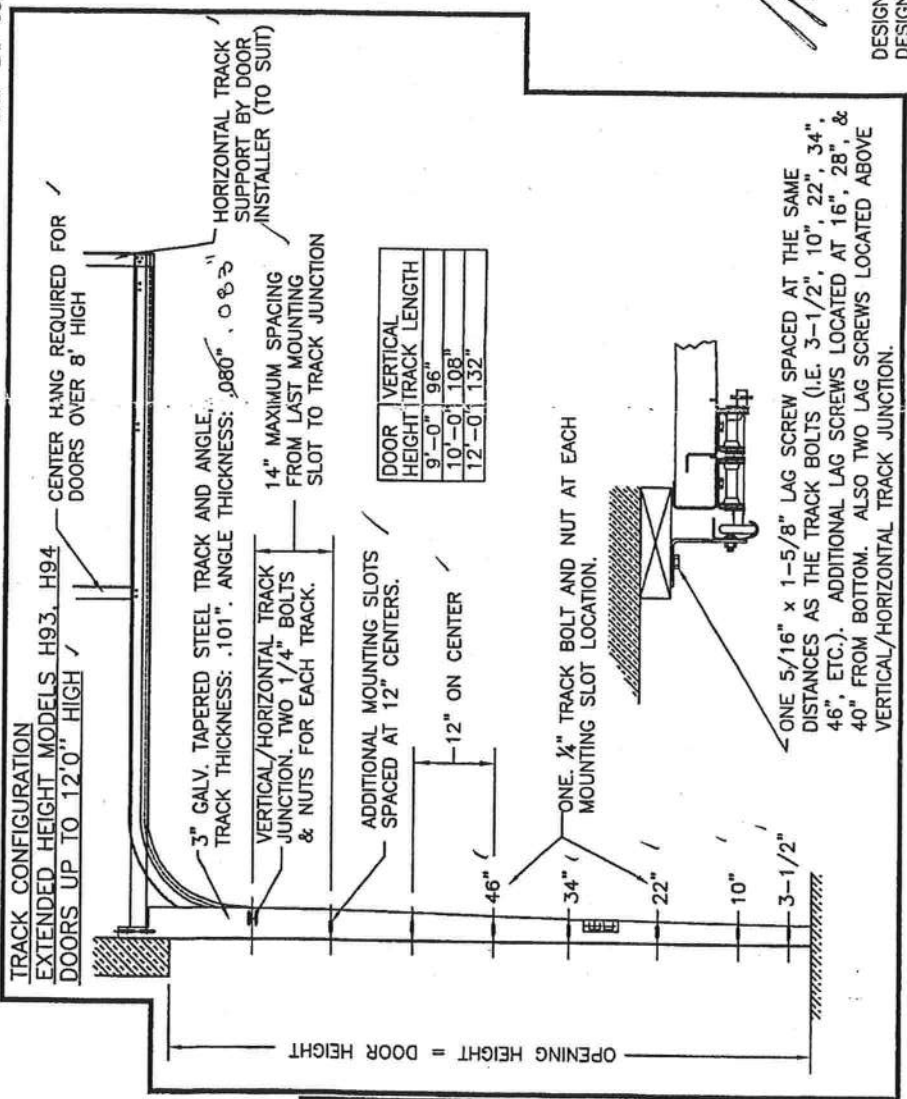
13 GA. GALV. STEEL BOTTOM BRACKET. ATTACHED WITH (2) #14x5/8" SHEET

ALUMINUM EXTRUSION & VINYL WEATHER SECTION A-A (SIDE VIEW)

#14x5/8" SI



14 GA. END HINGES VIEW "B"



TRACK CONFIGURATION EXTENDED HEIGHT MODELS H93, H94 DOORS UP TO 120" HIGH CENTER HANG REQUIRED FOR DOORS OVER 8' HIGH

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT)

14" MAXIMUM SPACING FROM LAST MOUNTING SLOT TO TRACK JUNCTION

| DOOR HEIGHT | TRACK LENGTH |
|-------------|--------------|
| 9'-0"       | 96"          |
| 10'-0"      | 108"         |
| 12'-0"      | 132"         |

ADDITIONAL MOUNTING SLOTS SPACED AT 12" CENTERS.

12" ON CENTER

ONE 1/4" TRACK BOLT AND NUT AT EACH MOUNTING SLOT LOCATION.

ONE 5/16" x 1-5/8" LAG SCREW SPACED AT THE SAME DISTANCES AS THE TRACK BOLTS (I.E. 3'-1/2", 10", 22", 34", 46", ETC.). ADDITIONAL LAG SCREWS LOCATED AT 16", 28", & 40" FROM BOTTOM. ALSO TWO LAG SCREWS LOCATED ABOVE VERTICAL/HORIZONTAL TRACK JUNCTION.

HIGH

|                                     |
|-------------------------------------|
| 1 PANEL GALV. INTER. STILES         |
| 1 PANEL PAINTED/GALV. INTER. STILES |

33, 84A, 93, 94

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT) ANCE SYSTEM

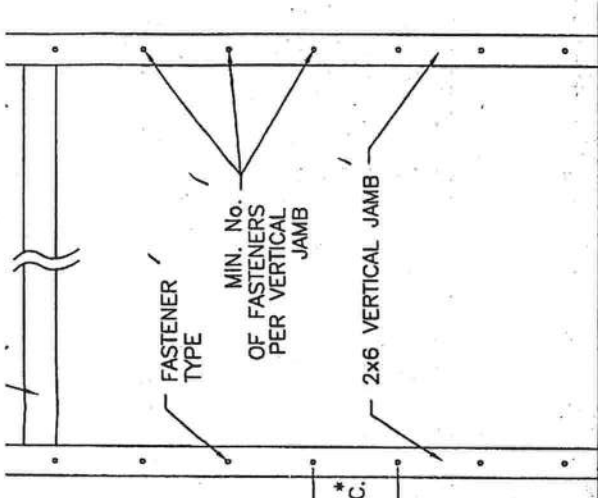
CONTINUOUS ANGLE

DOORS ONLY

| DOOR HEIGHT | "   |
|-------------|-----|
| 6'-6"       | 70" |
| 7'-0"       | 76" |
| 7'-6"       | 82" |
| 8'-0"       | 88" |

BACK .083"

DESIGN LOADS: +46.6 P.S.F. & -52.0 P.S.F. (MODELS 83, 84A, 93, 94)  
DESIGN LOADS: +46.6 P.S.F. & -51.7 P.S.F. (MODELS H93, H94)



UM DESIGN LOAD OF +372.8 LB & -416 LB, PER LINEAR FOOT OF JAMB. (NOT REQUIRED) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

BE FRAMED SOLID BY NOT LESS THAN (3) 2x6 PRESSURE TREATED GRADE 1 SS GRADE NOT LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS 30" HIGH. STUD WALLS TO BE CONTINUOUS FROM FOOTING TO TIE BEAMS A BUILDING CODE. (4) 2x6 PRESSURE TREATED GRADE #2 OR BETTER LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS IN BENDING FOR

**TIE**

TO GROUT REINFORCED BLOCK WALL OR CONCRETE COLUMN. WITH CONCRETE AND REINFORCED WITH #5 BAR EXTENDING 4S. ALL BARS SHALL BE CONTINUOUS FROM THE TIE BEAMS CONCRETE COLUMN. BLOCK WALLS AND CONCRETE COLUMNS TO BE OF RECORD AND IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.

### SUPPORTING STRUCTURE ATTACHMENT

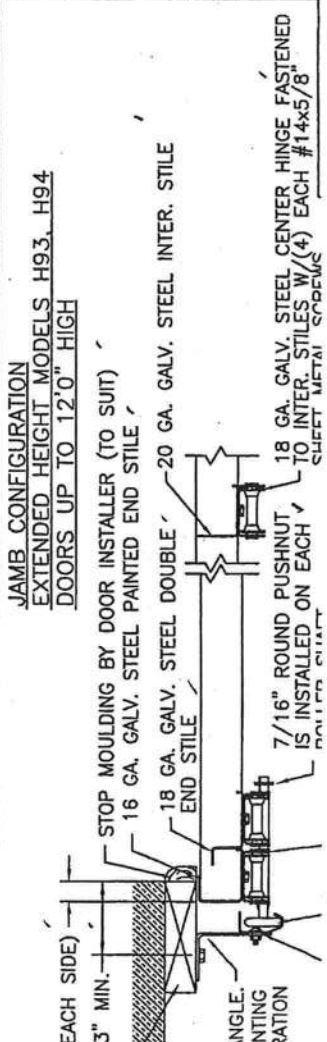
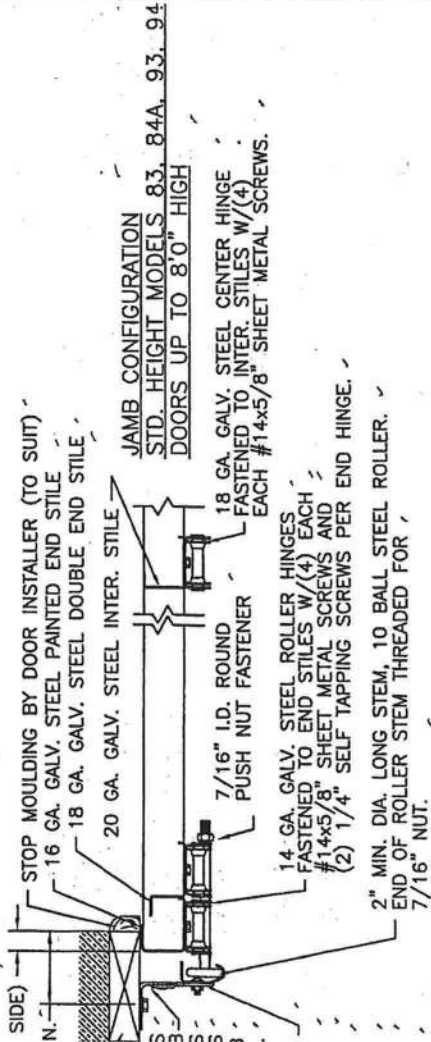
MENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

| TYPE                                                             | MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS | STEEL WASHERS REQUIRED? |
|------------------------------------------------------------------|----------------------------------------------|-------------------------|
| EMBED LAG SCREW (ASTM A307, GRADE A) 1-1/2" EMBED INTO STRUCTURE | 16"                                          | YES                     |
| 3/4" MIN. EMBED ELCO TAPCON CONCRETE ANCHOR                      | 10"                                          | YES                     |
| 3/4" MIN. EMBED POWER-STUD EXPANSION ANCHOR (7400 SERIES)        | 16"                                          | NO                      |
| 1/4" MIN. EMBED POWER LOK/BOLT ANCHOR BOLT (5000 SERIES)         | 14"                                          | NO                      |

ANCHOR AND EDGE OF CONCRETE BLOCK: 3". EXCLUDING STUCCO THICKNESS. NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.

MENT FASTENERS.

AD HAS BEEN USED IN THE DESIGN OF CONCRETE ANCHORS & WOOD FASTENERS.



**JAMB PREPARATION NOTE**

EACH CONTINUOUS ANGLE TRACK SHALL BE FASTENED TO PINE WOOD JAMBS WITH 5/16"x1-5/8" LAG SCREWS (12 7'0" HIGH AND (13) LAG SCREWS PER SIDE UP TO 8'0" TO 9'0" HIGH, (15) LAG SCREWS PER SIDE UP TO 10'0" SIDE UP TO 11'0" HIGH, (17) LAG SCREWS PER SIDE U ATTACHMENT TO THE SUPPORTING STRUCTURE OF THE PR SHALL BE APPROVED BY THE PROFESSIONAL OF RECORD ACCORDANCE WITH CURRENT BUILDING CODES FOR THE L PREPARATION OF JAMBS BY OTHERS.

ALL MOUNTING OF TRACK, ANGLES, HORIZONTAL TRACK SI DOOR HARDWARE TO BE INSTALLED PER CLOPAY INSTALLA SUPPLIED WITH DOOR SYSTEM UNLESS OTHERWISE NOTED

PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 05-1212  
Registration Date 05/20/04  
Mark W. Westerfield, P.E.  
DESIGN ENGINEER  
FLORIDA REGISTRATION No. 48495

*Mark W. Westerfield* 1/6/04

DESIGN LOADS: +46.6 P.S.F. & -52.0 P.S.F. (MODELS 83, 84A, 93, 94)  
DESIGN LOADS: +46.6 P.S.F. & -51.7 P.S.F. (MODEL H93, H94)





**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

### **NOTICE OF ACCEPTANCE (NOA)**

**Wheeling Corrugating Company  
1134 Market Street  
Wheeling, WV 26003**

#### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

#### **DESCRIPTION: "R" Panel Steel Roofing**

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 7.

The submitted documentation was reviewed by Frank Zuloaga, RRC



**NOA No.: 00-0501.14  
Expiration Date: 02/21/07  
Approval Date: 02/21/02  
Page 1 of 7**

## ROOFING SYSTEM APPROVAL:

Category: Roofing  
Sub-Category: Metal, Panels  
Material: Steel  
Deck Type: Wood  
Maximum Design Pressure: -87.5 psf.

## TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

| <u>Product</u>                                       | <u>Dimensions</u>                                                 | <u>Test Specifications</u> | <u>Product Description</u>                                                                               |
|------------------------------------------------------|-------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------|
| Wheeling<br>Corrugating<br>Company "R" Roof<br>Panel | Length: varies<br>Width: 37"<br>Height: 1-1/4"<br>Thickness.0217" | PA 110                     | G-90 Galvanized, AZ55, Wheeling Paint<br>System, Fluoropan, Kylar or Hylar over<br>G60 Galvanized Steel. |

## TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

| <u>Product</u>                      | <u>Dimensions</u>                         | <u>Product Description</u>                                                              | <u>Manufacturer</u>                               |
|-------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------|
| #30 Felt                            | N/A                                       | Saturated organic felt<br>to be used as a nailed<br>underlayment.                       | Generic<br>(With current NOA)                     |
| #43 Coated Base Sheet               | N/A                                       | Saturated and coated<br>organic base sheet for<br>single or double ply<br>underlayment. | Generic<br>(With current NOA)                     |
| Fire Barrier Board<br>("Dens Deck") | Min. 1/4" thick                           | Fire barrier for Class<br>'A' fire rating.                                              | Georgia-Pacific<br>(With current NOA)             |
| Fire Barrier<br>("Roctex")          | Min. 450 grams/m <sup>2</sup>             | Fire barrier for Class<br>'A' fire rating.                                              | Partek Insulations,<br>Inc.<br>(With current NOA) |
| Fasteners<br>(Panel)                | Min. 0.178 inch diameter<br>by 1-1/2 long | Corrosion resistant,<br>sharp point hex-head<br>screws with neoprene<br>sealing washer. | Generic<br>(With current NOA)                     |



NOA No.: 00-0501.14  
Expiration Date: 02/21/07  
Approval Date: 02/21/02  
Page 2 of 7

## APPROVED SYSTEMS:

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSTEM:</b>                       | Wheeling Corrugating Company "R" Roof Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Deck Type:</b>                    | Wood, Non-insulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Deck Description:</b>             | New Construction or Re-roof<br>$1\frac{5}{32}$ " or greater plywood or wood plank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Slope Range:</b>                  | 2": 12" or greater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Maximum Uplift Pressure:</b>      | The maximum allowable design pressure -52.5 psf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Deck Attachment:</b>              | In accordance with applicable building code, but in no case shall it be less than $1\frac{5}{32}$ " plywood fastened with #8 x 2 inch wood screws spaced 6" o.c. to <u>wood structural supports spaced at a maximum of 24 inches o.c.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Underlayment:</b>                 | Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 15" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 $\frac{1}{4}$ " annular ring-shank nails, spaced 6" o.c. at all laps and one staggered rows 12" o.c. in the field of the 17" exposure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Valleys:</b>                      | Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Wheeling Corrugating Company "R" Roof Panel' current published installation instructions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Fire Barrier Board:</b>           | For class A or B fire rating, install minimum $\frac{1}{4}$ " thick Georgia Pacific "Dens Deck" or one layer of "Roctex" or $\frac{5}{8}$ " water resistant type X gypsum sheathing with treated core and facer, in compliance with Roofing Application Standard RAS 133.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Metal Panels and Accessories:</b> | <p>Install the "Wheeling Corrugating Company "R" Roof Panel" and accessories in compliance with Wheeling Corrugating Company' current published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standards RAS 133.</p> <p>"R" Roofing Panels shall be fastened with a minimum of #9-15 sharp point screws with a hex-washer head and neoprene sealing washer of sufficient length to penetrate through the deck spaced at <math>\frac{3}{16}</math>" at a maximum spacing of 12 inches o.c. in all directions as follows:</p> <ol style="list-style-type: none"><li>1. Side laps shall be fastened with a minimum of two screws spaced at a maximum of 12 inches along the entire length of the roof (parallel to the roof slope) see details herein.</li><li>2. Panel width shall be fastened with fasteners at a maximum spacing of 12 inches o.c. perpendicular to the slope of the roof in accordance with the detail herein. Fastener rows shall continue up the entire length of the roof (parallel to the roof slope) at a maximum spacing of 12 inches o.c.</li></ol> |



|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSTEM:</b>                       | Wheeling Corrugating Company "R" Roof Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Deck Type:</b>                    | Wood, Non-insulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Deck Description:</b>             | New Construction or Re-roof<br><sup>15</sup> / <sub>32</sub> " or greater plywood or wood plank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Slope Range:</b>                  | 2": 12" or greater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Maximum Uplift Pressure:</b>      | The maximum allowable design pressure -87.5 psf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Deck Attachment:</b>              | In accordance with applicable building code, but in no case shall it be less than <sup>15</sup> / <sub>32</sub> " plywood fastened with #8 x 1-7/8 inch wood screws spaced 6" o.c. <u>to wood structural supports spaced at a maximum of 12 inches o.c.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Underlayment:</b>                 | Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 15" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 1/4" annular ring-shank nails, spaced 6" o.c. at all laps and one staggered rows 12" o.c. in the field of the 17" exposure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Valleys:</b>                      | Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Wheeling Corrugating Company "R" Roof Panel' current published installation instructions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Fire Barrier Board:</b>           | For class A or B fire rating, install minimum 1/4" thick Georgia Pacific "Dens Deck" or one layer of "Roctex" or 5/8" water resistant type X gypsum sheathing with treated core and facer, in compliance with Roofing Application Standard RAS 133.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Metal Panels and Accessories:</b> | <p>Install the "Wheeling Corrugating Company "R" Roof Panel" and accessories in compliance with Wheeling Corrugating Company' current published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standards RAS 133.</p> <p>"R" Roofing Panels shall be fastened with a minimum of # 0.178" diameter sharp point screw with a hex-washer head and neoprene sealing washer of sufficient length to penetrate through the deck spaced at 3/16" at a maximum spacing of 12 inches o.c. in all directions as follows:</p> <ol style="list-style-type: none"> <li>1. Side laps shall be fastened with a minimum of two screws spaced at a maximum of 12 inches along the entire length of the roof (parallel to the roof slope) see details herein.</li> <li>2. Panel width shall be fastened with fasteners at a maximum spacing of 12 inches o.c. perpendicular to the slope of the roof in accordance with the detail herein. Fastener rows shall continue up the entire length of the roof (parallel to the roof slope) at a maximum spacing of 12 inches o.c.</li> </ol> |





### SYSTEM LIMITATIONS:

1. Increased design pressures at perimeter and corner areas, in compliance with applicable building code may be met through rational analysis by increasing the number of attachment points in these areas. The maximum fastener spacing noted in the "Systems Description" section of this approval shall not be exceeded. All rational analysis computation shall be prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. Panels shall be rolls formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Roofing Application Standard RAS 133.
3. All panels shall be permanently labeled with the manufacturer's name or logo, and the following statement: "Miami-Dade County Product Control Approved."

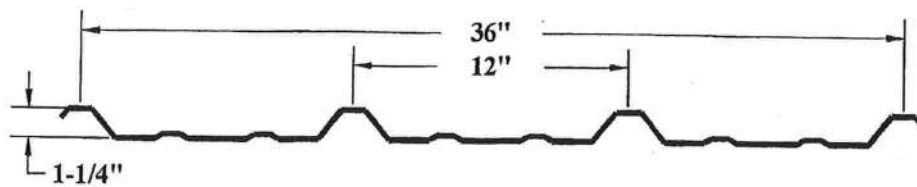
### EVIDENCE SUBMITTED:

| <u>Test Agency</u>         | <u>Test Identifier</u> | <u>Test Name/Report</u>                             | <u>Date</u> |
|----------------------------|------------------------|-----------------------------------------------------|-------------|
| Architectural Testing Inc. | 01-35689.01            | PA 125<br>PA 100                                    | 11/17/99    |
| Architectural Testing Inc. | 01-35687.03            | ASTM B-117<br>ASTM G-23<br>ASTM D-714<br>ASTM D-772 | 12/22/99    |
| Architectural Testing Inc. | 01-35688.02            | ASTM B-117<br>ASTM G-23<br>ASTM D-714<br>ASTM D-772 | 12/22/99    |
| Architectural Testing Inc. | 01-35689.02            | ASTM B-117<br>ASTM G-23<br>ASTM D-714<br>ASTM D-772 | 12/22/99    |
| Architectural Testing Inc. | 01-35690.02            | ASTM B-117<br>ASTM G-23<br>ASTM D-714<br>ASTM D-772 | 12/22/99    |
| Underwriters Laboratory    | 00NB/R20684            | UL 580                                              | 09/14/01    |

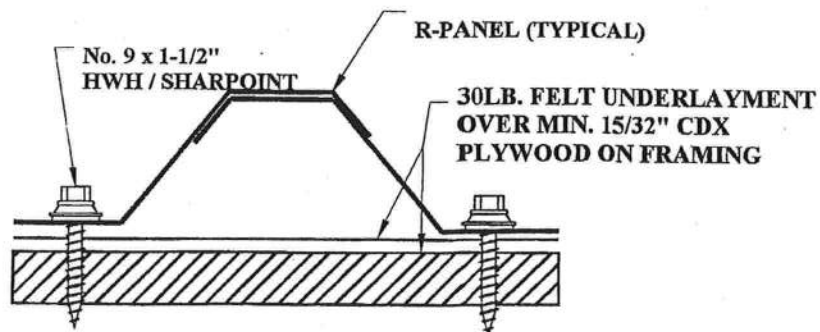
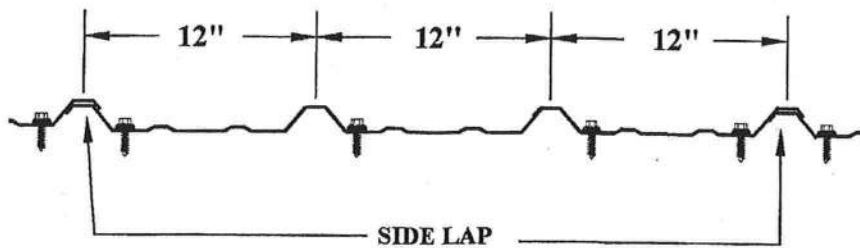


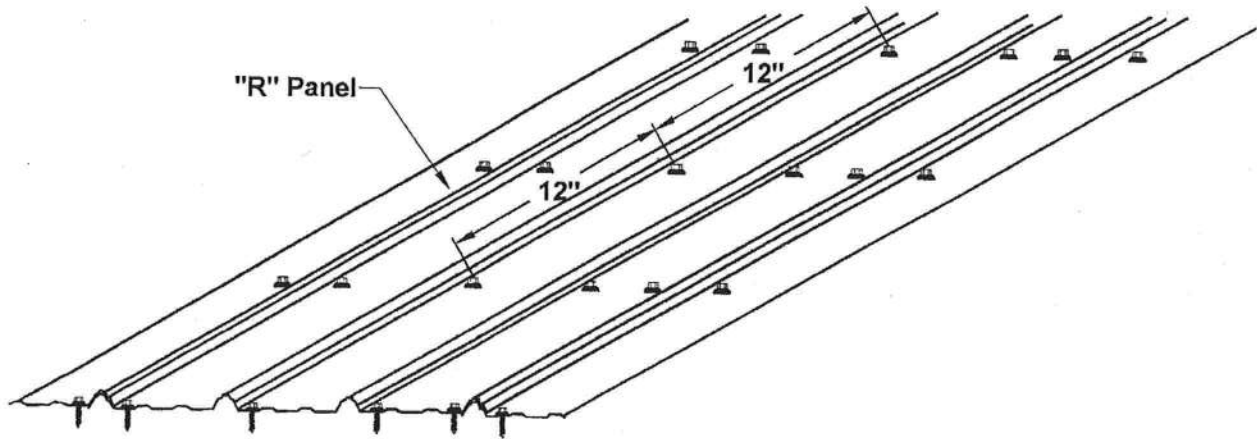
NOA No.: 00-0501.14  
Expiration Date: 02/21/07  
Approval Date: 02/21/02  
Page 5 of 7

## WHEELING CORRUGATING COMPANY "R" ROOF PANEL



### FASTENER LOCATION





**END OF THIS ACCEPTANCE**



NOA No.: 00-0501.14  
Expiration Date: 02/21/07  
Approval Date: 02/21/02  
Page 7 of 7

# Summary Energy Code Results

## Residential Whole Building Performance Method A

Matthew and Nancy Dowling  
SR 247

Project Title:  
Dowling Residence

Code Only  
Professional Version  
Climate: North

11/5/2007

| Building Loads |                     |            |                     |
|----------------|---------------------|------------|---------------------|
| Base           |                     | As-Built   |                     |
| Summer:        | <b>43525 points</b> | Summer:    | <b>33261 points</b> |
| Winter:        | <b>33185 points</b> | Winter:    | <b>28212 points</b> |
| Hot Water:     | <b>12121 points</b> | Hot Water: | <b>12121 points</b> |
| Total:         | <b>88831 points</b> | Total:     | <b>73595 points</b> |

| Energy Use |                     |            |                     |
|------------|---------------------|------------|---------------------|
| Base       |                     | As-Built   |                     |
| Cooling:   | <b>14146 points</b> | Cooling:   | <b>8146 points</b>  |
| Heating:   | <b>18384 points</b> | Heating:   | <b>5828 points</b>  |
| Hot Water: | <b>13175 points</b> | Hot Water: | <b>12895 points</b> |
| Total:     | <b>45705 points</b> | Total:     | <b>26869 points</b> |

**PASS**  
e-Ratio: 0.59



# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844

Florida Engineering Certificate of Authorization Number: 0 278

Florida Certificate of Product Approval # FL1999

Page 1 of 1 Document ID:1TCZ8228Z0104081701

Truss Fabricator: Anderson Truss Company

Job Identification: 7-349--OWNER BUILDER Matthew Dowling -- , \*\*

Truss Count: 90

Model Code: Florida Building Code 2004 and 2006 Supplement

Truss Criteria: ANSI/TPI-2002(STD)/FBC

Engineering Software: Alpine Software, Version 7.36.

Structural Engineer of Record: The identity of the structural EOR did not exist as of

Address: the seal date per section 61G15-31.003(5a) of the FAC

Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

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

Details: BRCLBSUB-140GC-

Seal Date: 12/04/2007

-Truss Design Engineer-  
Doug Fleming

Florida License Number: 66648

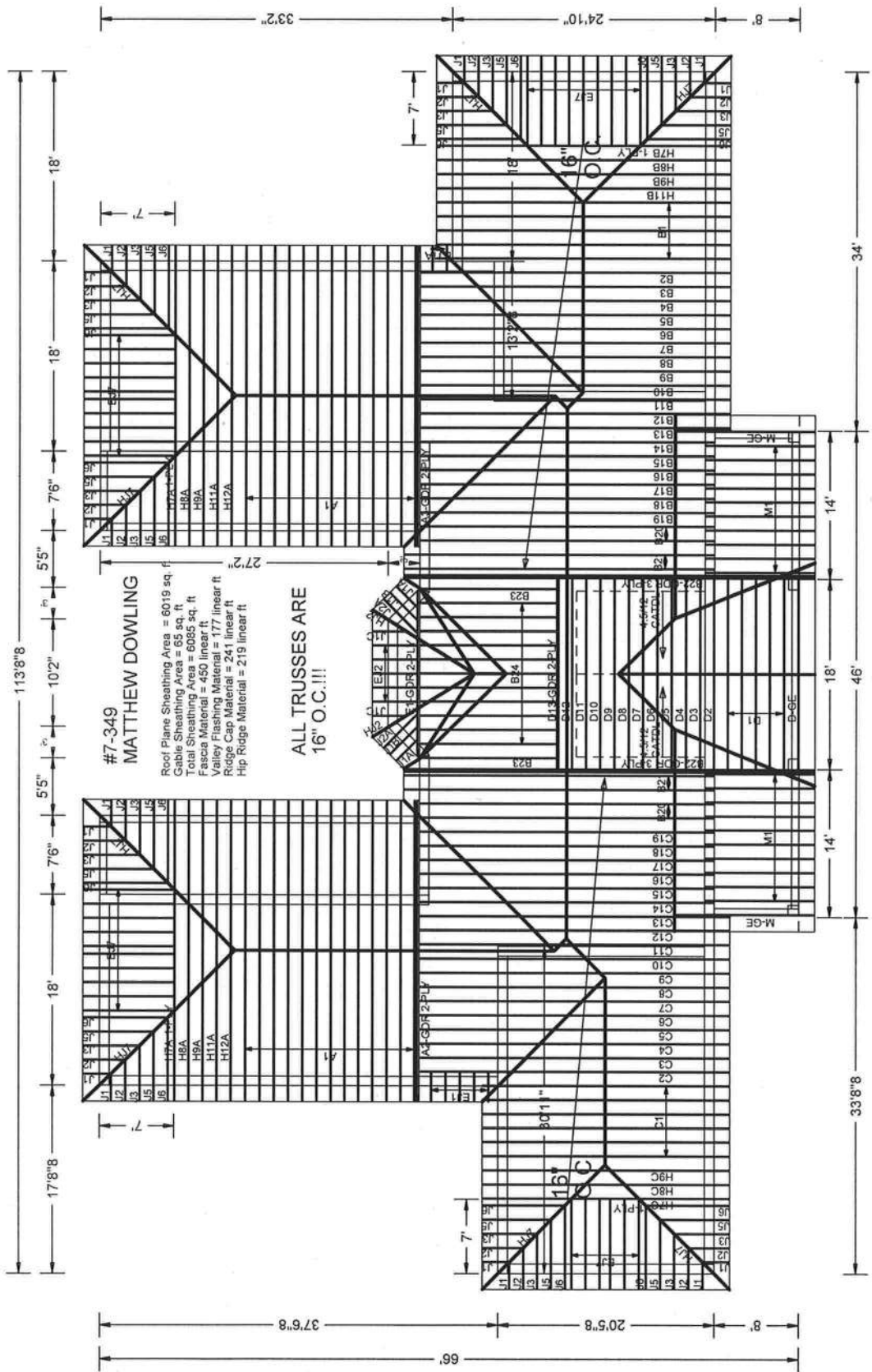
1950 Marley Drive  
Haines City, FL 33844

| # | Ref            | Description | Drawing# | Date |
|---|----------------|-------------|----------|------|
| 1 | 26096--H8A     | 07338024    | 12/04/07 |      |
| 2 | 26097--H7A     | 07338078    | 12/04/07 |      |
| 3 | 26098--H9A     | 07338025    | 12/04/07 |      |
| 4 | 26099--H11A    | 07338026    | 12/04/07 |      |
| 5 | 26100--H12A    | 07338027    | 12/04/07 |      |
| 6 | 26101--A1      | 07338028    | 12/04/07 |      |
| 7 | 26102--A2-GDR  | 07338079    | 12/04/07 |      |
| 8 | 26103--A3-GDR  | 07338080    | 12/04/07 |      |
| 9 | 26104--H7B     | 07338081    | 12/04/07 |      |
| 0 | 26105--H8B     | 07338029    | 12/04/07 |      |
| 1 | 26106--H9B     | 07338030    | 12/04/07 |      |
| 2 | 26107--H11B    | 07338001    | 12/04/07 |      |
| 3 | 26108--B1      | 07338031    | 12/04/07 |      |
| 4 | 26109--B22-GDR | 07338090    | 12/04/07 |      |
| 5 | 26110--B20     | 07338032    | 12/04/07 |      |
| 6 | 26111--B21     | 07338033    | 12/04/07 |      |
| 7 | 26112--B23     | 07338034    | 12/04/07 |      |
| 8 | 26113--B24     | 07338002    | 12/04/07 |      |
| 9 | 26114--B2      | 07338035    | 12/04/07 |      |
| 0 | 26115--B3      | 07338036    | 12/04/07 |      |
| 1 | 26116--B4      | 07338037    | 12/04/07 |      |
| 2 | 26117--B5      | 07338038    | 12/04/07 |      |
| 3 | 26118--B6      | 07338039    | 12/04/07 |      |
| 4 | 26119--B7      | 07338040    | 12/04/07 |      |
| 5 | 26120--B8      | 07338041    | 12/04/07 |      |
| 6 | 26121--B9      | 07338042    | 12/04/07 |      |
| 7 | 26122--B10     | 07338043    | 12/04/07 |      |
| 8 | 26123--B11     | 07338044    | 12/04/07 |      |
| 9 | 26124--B12     | 07338045    | 12/04/07 |      |
| 0 | 26125--B13     | 07338046    | 12/04/07 |      |
| 1 | 26126--B14     | 07338047    | 12/04/07 |      |
| 2 | 26127--B15     | 07338003    | 12/04/07 |      |
| 3 | 26128--B16     | 07338004    | 12/04/07 |      |
| 4 | 26129--B17     | 07338005    | 12/04/07 |      |
| 5 | 26130--B18     | 07338006    | 12/04/07 |      |
| 6 | 26131--B19     | 07338007    | 12/04/07 |      |
| 7 | 26132--H7C     | 07338087    | 12/04/07 |      |
| 8 | 26133--H8C     | 07338048    | 12/04/07 |      |

| #  | Ref            | Description | Drawing# | Date |
|----|----------------|-------------|----------|------|
| 39 | 26134--H9C     | 07338049    | 12/04/07 |      |
| 40 | 26135--C1      | 07338050    | 12/04/07 |      |
| 41 | 26136--C2      | 07338051    | 12/04/07 |      |
| 42 | 26137--C3      | 07338052    | 12/04/07 |      |
| 43 | 26138--C4      | 07338053    | 12/04/07 |      |
| 44 | 26139--C5      | 07338054    | 12/04/07 |      |
| 45 | 26140--C6      | 07338055    | 12/04/07 |      |
| 46 | 26141--C7      | 07338056    | 12/04/07 |      |
| 47 | 26142--C8      | 07338057    | 12/04/07 |      |
| 48 | 26143--C9      | 07338058    | 12/04/07 |      |
| 49 | 26144--C10     | 07338059    | 12/04/07 |      |
| 50 | 26145--C11     | 07338060    | 12/04/07 |      |
| 51 | 26146--C12     | 07338061    | 12/04/07 |      |
| 52 | 26147--C13     | 07338062    | 12/04/07 |      |
| 53 | 26148--C14     | 07338008    | 12/04/07 |      |
| 54 | 26149--C15     | 07338009    | 12/04/07 |      |
| 55 | 26150--C16     | 07338010    | 12/04/07 |      |
| 56 | 26151--C17     | 07338011    | 12/04/07 |      |
| 57 | 26152--C18     | 07338012    | 12/04/07 |      |
| 58 | 26153--C19     | 07338013    | 12/04/07 |      |
| 59 | 26154--D-GE    | 07338088    | 12/04/07 |      |
| 60 | 26155--D1      | 07338063    | 12/04/07 |      |
| 61 | 26156--D2      | 07338064    | 12/04/07 |      |
| 62 | 26157--D3      | 07338065    | 12/04/07 |      |
| 63 | 26158--D4      | 07338066    | 12/04/07 |      |
| 64 | 26159--D5      | 07338067    | 12/04/07 |      |
| 65 | 26160--D6      | 07338068    | 12/04/07 |      |
| 66 | 26161--D7      | 07338069    | 12/04/07 |      |
| 67 | 26162--D8      | 07338070    | 12/04/07 |      |
| 68 | 26163--D9      | 07338071    | 12/04/07 |      |
| 69 | 26164--D10     | 07338072    | 12/04/07 |      |
| 70 | 26165--D11     | 07338073    | 12/04/07 |      |
| 71 | 26166--D12     | 07338074    | 12/04/07 |      |
| 72 | 26167--D13-GDR | 07338082    | 12/04/07 |      |
| 73 | 26168--E1-GDR  | 07338083    | 12/04/07 |      |
| 74 | 26169--J1      | 07338075    | 12/04/07 |      |
| 75 | 26170--HJ7     | 07338084    | 12/04/07 |      |
| 76 | 26171--J2      | 07338014    | 12/04/07 |      |

| #  | Ref         | Description | Drawing# | Date |
|----|-------------|-------------|----------|------|
| 77 | 26172--J3   | 07338015    | 12/04/07 |      |
| 78 | 26173--J5   | 07338016    | 12/04/07 |      |
| 79 | 26174--J6   | 07338017    | 12/04/07 |      |
| 80 | 26175--EJ7  | 07338018    | 12/04/07 |      |
| 81 | 26176--EJ1  | 07338089    | 12/04/07 |      |
| 82 | 26177--EJ1A | 07338076    | 12/04/07 |      |
| 83 | 26178--J1A  | 07338077    | 12/04/07 |      |
| 84 | 26179--J1B  | 07338019    | 12/04/07 |      |
| 85 | 26180--J2A  | 07338020    | 12/04/07 |      |
| 86 | 26181--J1C  | 07338021    | 12/04/07 |      |
| 87 | 26182--HJ2  | 07338085    | 12/04/07 |      |
| 88 | 26183--EJ2  | 07338022    | 12/04/07 |      |
| 89 | 26184--M1   | 07338023    | 12/04/07 |      |
| 90 | 26185--M-GE | 07338086    | 12/04/07 |      |





#7-349  
MATTHEW DOWLING

Roof Plane Sheathing Area = 6019 sq. ft.  
Gable Sheathing Area = 65 sq. ft.  
Total Sheathing Area = 6084 sq. ft.  
Fascia Material = 450 linear ft.  
Valley Flashing Material = 177 linear ft.  
Ridge Cap Material = 241 linear ft.  
Hip Ridge Material = 219 linear ft.

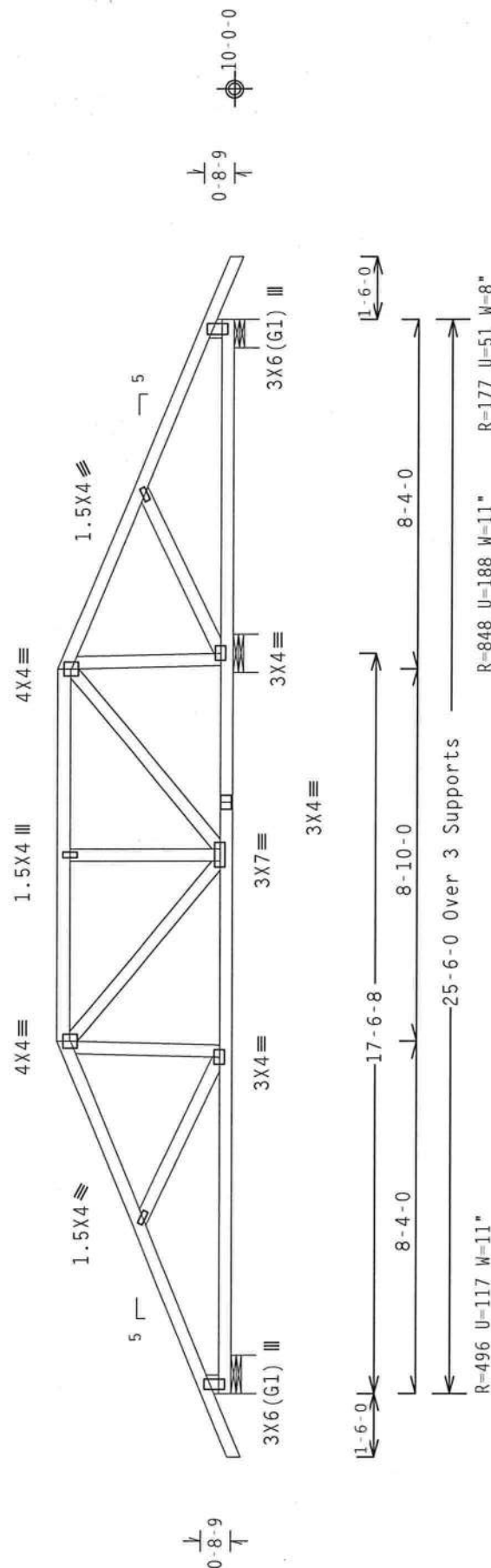
ALL TRUSSES ARE  
16" O.C.!!!



11110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART\_ENC. 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(+/-)=0.55

Wind reactions based on MWFRS pressures.  
Trusses to be spaced at 16.0" OC maximum.

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



Design Crit: TPI-2002(STD)/FBC

Scale = .25"/Ft.

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

042

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

00031911

PLT TYP. Wave

**\*WARNING\*** THOUSSES REQUIRE EXTREME CARE IN INFORMATION HANDLING, SHIPPING, INSTALLING AND BRACING. PLEASE REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND MTCA (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 PROPERLY ATTACHED RIGID CEILING.

[illegible]

|          |       |     |        |                    |
|----------|-------|-----|--------|--------------------|
| TC LL    | 20.0  | PSF | REF    | R8228 - 26096      |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07           |
| BC DL    | 10.0  | PSF | DRW    | #CUSR8228 07338024 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0  | PSF | SEQN - | 64306              |
| DUR.FAC. | 1.25  |     | FROM   | AH                 |
| SPACING  | 16.0" |     | JREF - | 1TCZ8228Z01        |

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3

(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Trusses to be spaced at 16.0" OC maximum.

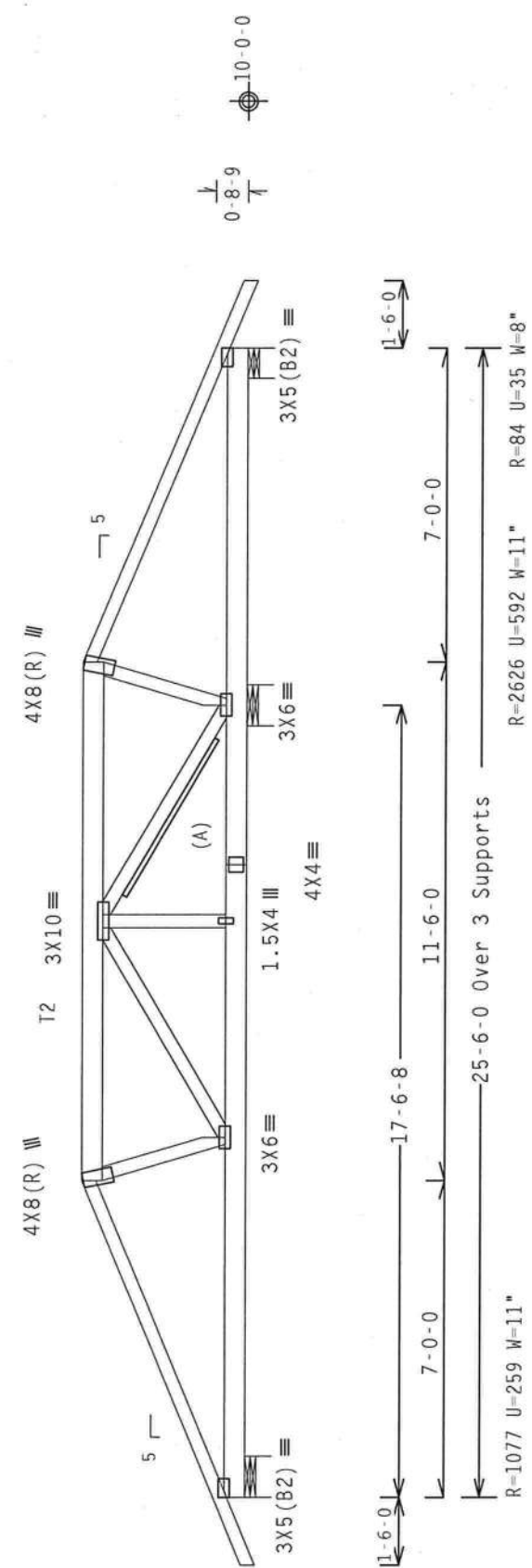
#1 hip supports 7-0-0 jacks with no webs.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART-ENC. 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(+/-)=0.55

Wind reactions based on MWFRS 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. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0-00000000

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

7.36.042

Scale = .25"/Ft.

QTY:1

FL/-/4/-/R/-

REF R8228- 26097

DATE 12/04/07

DRW HCUSR8228 07338078

HC-ENG JB/DF

SEQN- 63580

FROM AH

JREF- 1TCR228Z01

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

04 '07

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE MANUFACTURER, FOR THE LATEST EDITION OF THE NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WFLA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48071) 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 TPI1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PJA) AND TPI1. CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/SS/K) ASTM A653 GRADE 40/60 (N, K/M-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. THIS DESIGN IS THE PROPERTY OF ITW BUILDING COMPONENTS GROUP, INC. A SEAL OR THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEER. ITW BUILDING COMPONENTS GROUP, INC. SHALL BE SOLELY RESPONSIBLE FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

: Lt Stubbied Wedge 2x4 SP #3:: Rt Stubbied Wedge 2x4 SP #3:

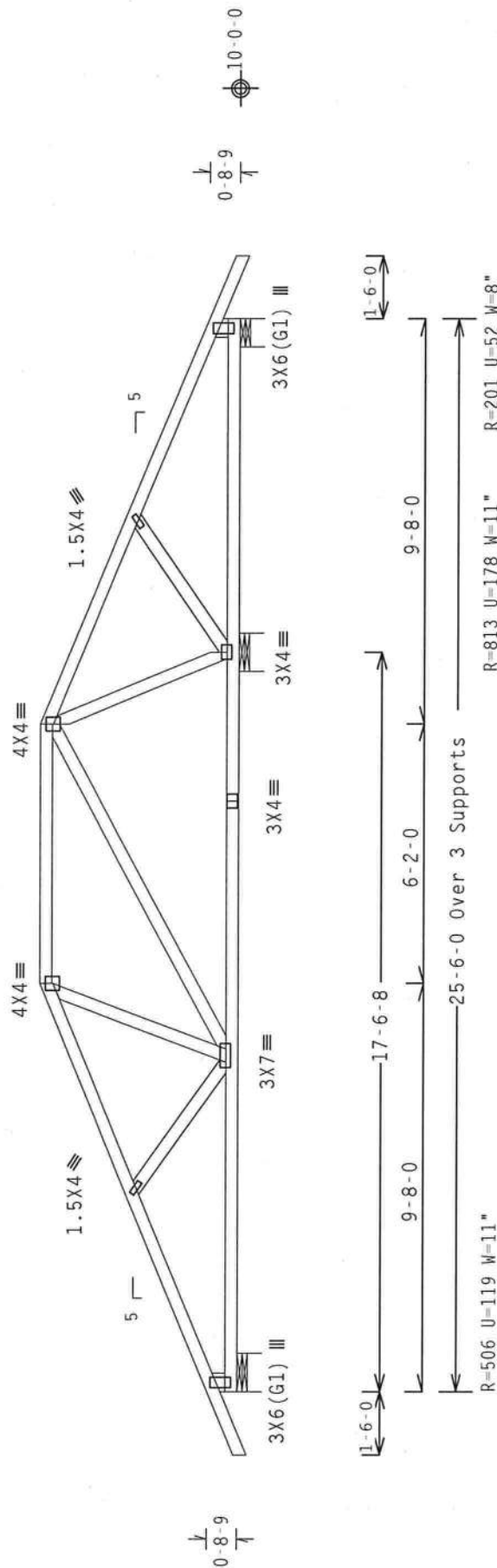
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART\_ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCpi(+/-)=0.55

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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

PLT TYP. Wave

042

OTY.1 E11-1A1-1-1P1-

Scale = 25"/ft

**\*\*WARNING\*\*** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (RUSS PLATE INSTITUTE, 218 RIVER STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (4000 THOMAS COUNCIL OF AMERICA, 6500 ENTERPRISE DRIVE, FARMINGTON, CT 06031) FOR THE LATEST BEST 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 CELLING.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228 - 26098     |
| TC DL    | 10.0 PSF | DATE   | 12/04/07          |
| BC DL    | 10.0 PSF | DRW    | HCSR8228 07338025 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF             |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63585             |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01       |

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
04/07

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENTS INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MOONSBY, MI 48155) 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. ITH BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: 1) FOR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, 2) FOR DESIGNING COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ITH BCG DESIGNER COMPLIES WITH ALL APPLICABLE PROVISIONS OF ASTM A663 GRADE 40/60 (H, K/H-S5) GALV. STEEL. APPLY PLATES TO FACE OF TRUSS 20/18 (MINIMUM 44/55/74) ASTM A663 GRADE 40/60 (H, K/H-S5) GALV. STEEL. ON THIS TRUSS, ALL PLATES SHALL BE PERMANENTLY ATTACHED TO THE TOP CHORD. THE DESIGNER SHALL BE RESPONSIBLE FOR ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERMANENTLY ATTACHED TO THE TOP CHORD. THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

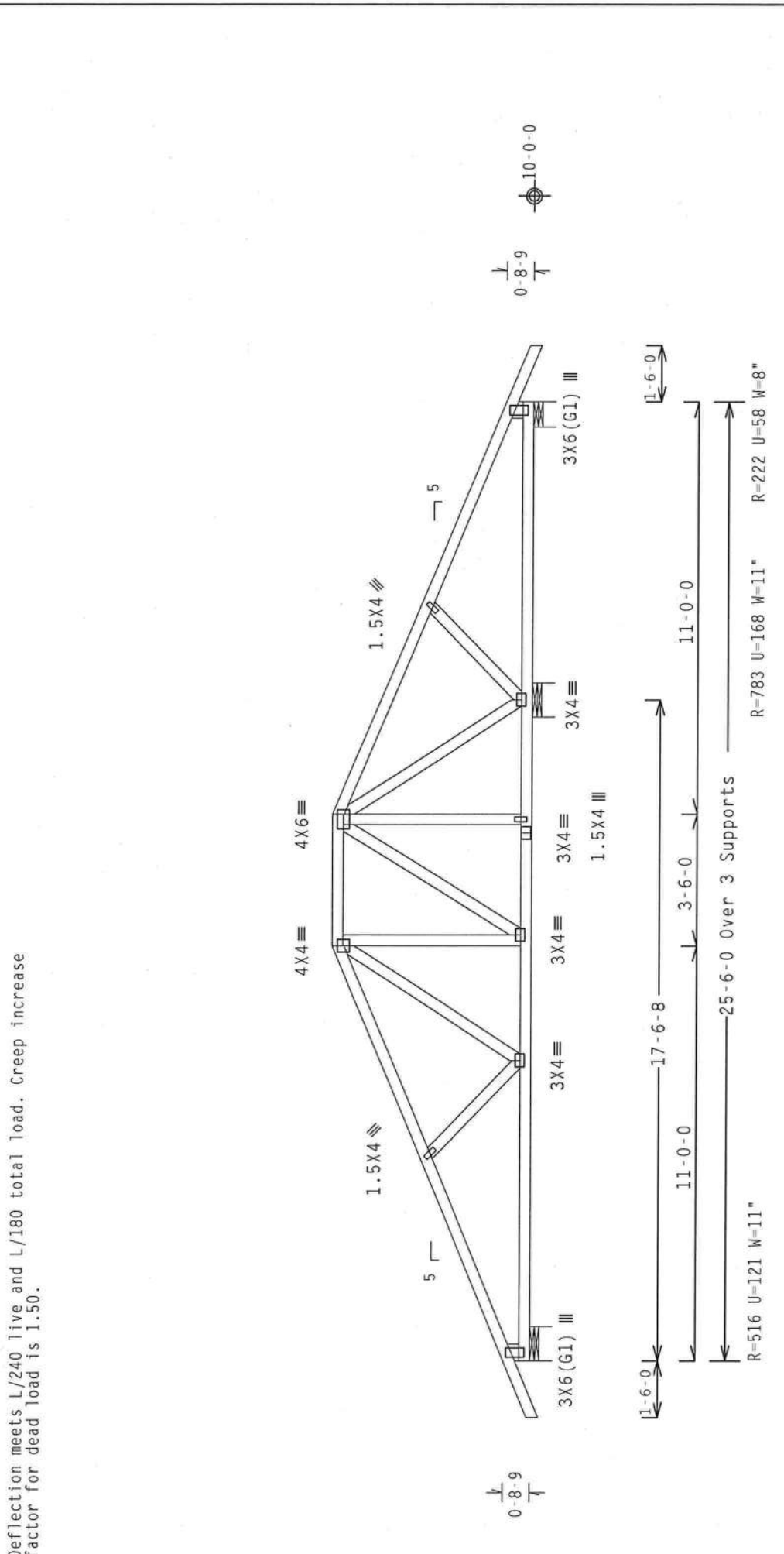


**ALPINE**

**ITTW Building Components Group, Inc.**  
Haines City, FL 33844  
Tel. 813/939-1111  
Fax 813/939-1111  
Circle 16 on Reader Service Card



Top chord 2x4 SP #2 Dense  
 Not chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3  
 Lt Stubbied Wedge 2x4 SP #3::Rt Stubbied Wedge 2x4 SP #3:  
 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, PART-ENC. 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(+/-)=0.55  
 Wind reactions based on MWFRS pressures.  
 Trusses to be spaced at 16.0" OC maximum.



ALPINE



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

A Certificate of Authorization # 0-276

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.36.00

QTY: 1

FL / - / 4 / - / R / -

Scale = .25" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 WEST STREET, SUITE 112, ALEXANDRIA, VA, 22304) AND WFGA (WOOD FABRICATORS' GUILD OF AMERICA, 6300 ENTERPRISE BLVD., NORTON, MA 01854) REGARDING THESE PREPARING 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.

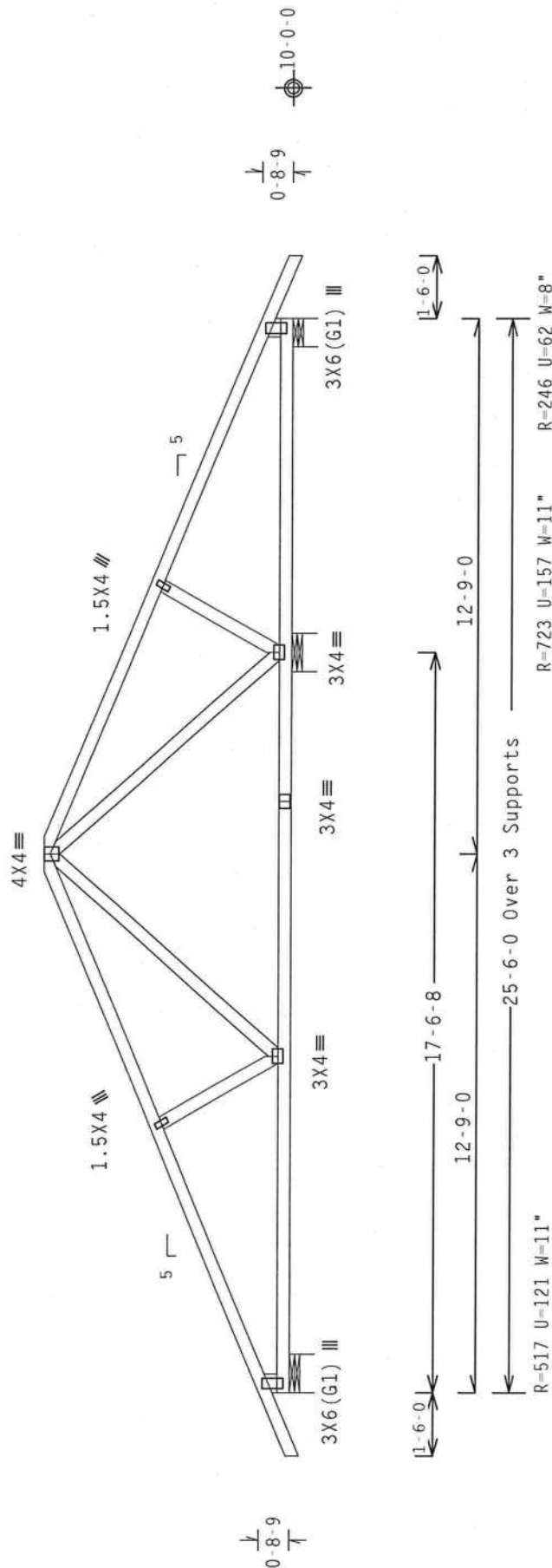
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG DIRECT TO PLATES ARE MINIMUM OF 20/180/16GA (4-H/55/75) ASTM A655 GRADE 40/60 (4, 8/11, 55) GALV. STEEL. APPLY PROTECTIVE COATING TO ALL EXPOSED SURFACES. SEE TPI 2002 SECTION 10 FOR DRAWING AND SECTION 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER A3 OF TPI 2002 SECTION 10. ANY INSPECTION 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    | 20.0  | PSF | REF    | R8228- 26099       | SCALE = .25" / Ft. |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07           |                    |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228 07338026 |                    |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF              |                    |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 63590              |                    |
| DUR.FAC. | 1.25  |     | FROM   | AH                 |                    |
| SPACING  | 16.0" |     | JREF-  | 1TCZ8228Z01        |                    |

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART\_ENC. 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(+/-)=0.55

Wind reactions based on MWFRS pressures.

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

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

7.

OTY:

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

Scale = 25"/Ft.

**\*WARNING\*** ROUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPLIANT SAFETY INFORMATION) PUBLISHED BY 717 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD TRUSS COMPANY), 6300 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. OTHERWISE, INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

**\*IMPORTANT\***—UNLESS 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 THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ASEA) AND TPI-1. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ASEA) AND TPI-1. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER PARAGRAPHS 160A-2.1, 160A-2.2, 160A-2.3, 160A-2.4, 160A-2.5, 160A-2.6, 160A-2.7, 160A-2.8, 160A-2.9, 160A-2.10, 160A-2.11, 160A-2.12, 160A-2.13, 160A-2.14, 160A-2.15, 160A-2.16, 160A-2.17, 160A-2.18, 160A-2.19, 160A-2.20, 160A-2.21, 160A-2.22, 160A-2.23, 160A-2.24, 160A-2.25, 160A-2.26, 160A-2.27, 160A-2.28, 160A-2.29, 160A-2.30, 160A-2.31, 160A-2.32, 160A-2.33, 160A-2.34, 160A-2.35, 160A-2.36, 160A-2.37, 160A-2.38, 160A-2.39, 160A-2.40, 160A-2.41, 160A-2.42, 160A-2.43, 160A-2.44, 160A-2.45, 160A-2.46, 160A-2.47, 160A-2.48, 160A-2.49, 160A-2.50, 160A-2.51, 160A-2.52, 160A-2.53, 160A-2.54, 160A-2.55, 160A-2.56, 160A-2.57, 160A-2.58, 160A-2.59, 160A-2.60, 160A-2.61, 160A-2.62, 160A-2.63, 160A-2.64, 160A-2.65, 160A-2.66, 160A-2.67, 160A-2.68, 160A-2.69, 160A-2.70, 160A-2.71, 160A-2.72, 160A-2.73, 160A-2.74, 160A-2.75, 160A-2.76, 160A-2.77, 160A-2.78, 160A-2.79, 160A-2.80, 160A-2.81, 160A-2.82, 160A-2.83, 160A-2.84, 160A-2.85, 160A-2.86, 160A-2.87, 160A-2.88, 160A-2.89, 160A-2.90, 160A-2.91, 160A-2.92, 160A-2.93, 160A-2.94, 160A-2.95, 160A-2.96, 160A-2.97, 160A-2.98, 160A-2.99, 160A-2.100, 160A-2.101, 160A-2.102, 160A-2.103, 160A-2.104, 160A-2.105, 160A-2.106, 160A-2.107, 160A-2.108, 160A-2.109, 160A-2.110, 160A-2.111, 160A-2.112, 160A-2.113, 160A-2.114, 160A-2.115, 160A-2.116, 160A-2.117, 160A-2.118, 160A-2.119, 160A-2.120, 160A-2.121, 160A-2.122, 160A-2.123, 160A-2.124, 160A-2.125, 160A-2.126, 160A-2.127, 160A-2.128, 160A-2.129, 160A-2.130, 160A-2.131, 160A-2.132, 160A-2.133, 160A-2.134, 160A-2.135, 160A-2.136, 160A-2.137, 160A-2.138, 160A-2.139, 160A-2.140, 160A-2.141, 160A-2.142, 160A-2.143, 160A-2.144, 160A-2.145, 160A-2.146, 160A-2.147, 160A-2.148, 160A-2.149, 160A-2.150, 160A-2.151, 160A-2.152, 160A-2.153, 160A-2.154, 160A-2.155, 160A-2.156, 160A-2.157, 160A-2.158, 160A-2.159, 160A-2.160, 160A-2.161, 160A-2.162, 160A-2.163, 160A-2.164, 160A-2.165, 160A-2.166, 160A-2.167, 160A-2.168, 160A-2.169, 160A-2.170, 160A-2.171, 160A-2.172, 160A-2.173, 160A-2.174, 160A-2.175, 160A-2.176, 160A-2.177, 160A-2.178, 160A-2.179, 160A-2.180, 160A-2.181, 160A-2.182, 160A-2.183, 160A-2.184, 160A-2.185, 160A-2.186, 160A-2.187, 160A-2.188, 160A-2.189, 160A-2.190, 160A-2.191, 160A-2.192, 160A-2.193, 160A-2.194, 160A-2.195, 160A-2.196, 160A-2.197, 160A-2.198, 160A-2.199, 160A-2.200, 160A-2.201, 160A-2.202, 160A-2.203, 160A-2.204, 160A-2.205, 160A-2.206, 160A-2.207, 160A-2.208, 160A-2.209, 160A-2.210, 160A-2.211, 160A-2.212, 160A-2.213, 160A-2.214, 160A-2.215, 160A-2.216, 160A-2.217, 160A-2.218, 160A-2.219, 160A-2.220, 160A-2.221, 160A-2.222, 160A-2.223, 160A-2.224, 160A-2.225, 160A-2.226, 160A-2.227, 160A-2.228, 160A-2.229, 160A-2.230, 160A-2.231, 160A-2.232, 160A-2.233, 160A-2.234, 160A-2.235, 160A-2.236, 160A-2.237, 160A-2.238, 160A-2.239, 160A-2.240, 160A-2.241, 160A-2.242, 160A-2.243, 160A-2.244, 160A-2.245, 160A-2.246, 160A-2.247, 160A-2.248, 160A-2.249, 160A-2.250, 160A-2.251, 160A-2.252, 160A-2.253, 160A-2.254, 160A-2.255, 160A-2.256, 160A-2.257, 160A-2.258, 160A-2.259, 160A-2.260, 160A-2.261, 160A-2.262, 160A-2.263, 160A-2.264, 160A-2.265, 160A-2.266, 160A-2.267, 160A-2.268, 160A-2.269, 160A-2.270, 160A-2.271, 160A-2.272, 160A-2.273, 160A-2.274, 160A-2.275, 160A-2.276, 160A-2.277, 160A-2.278, 160A-2.279, 160A-2.280, 160A-2.281, 160A-2.282, 160A-2.283, 160A-2.284, 160A-2.285, 160A-2.286, 160A-2.287, 160A-2.288, 160A-2.289, 160A-2.290, 160A-2.291, 160A-2.292, 160A-2.293, 160A-2.294, 160A-2.295, 160A-2.296, 160A-2.297, 160A-2.298, 160A-2.299, 160A-2.300, 160A-2.301, 160A-2.302, 160A-2.303, 160A-2.304, 160A-2.305, 160A-2.306, 160A-2.307, 160A-2.308, 160A-2.309, 160A-2.310, 160A-2.311, 160A-2.312, 160A-2.313, 160A-2.314, 160A-2.315, 160A-2.316, 160A-2.317, 160A-2.318, 160A-2.319, 160A-2.320, 160A-2.321, 160A-2.322, 160A-2.323, 160A-2.324, 160A-2.325, 160A-2.326, 160A-2.327, 160A-2.328, 160A-2.329, 160A-2.330, 160A-2.331, 160A-2.332, 160A-2.333, 160A-2.334, 160A-2.335, 160A-2.336, 160A-2.337, 160A-2.338

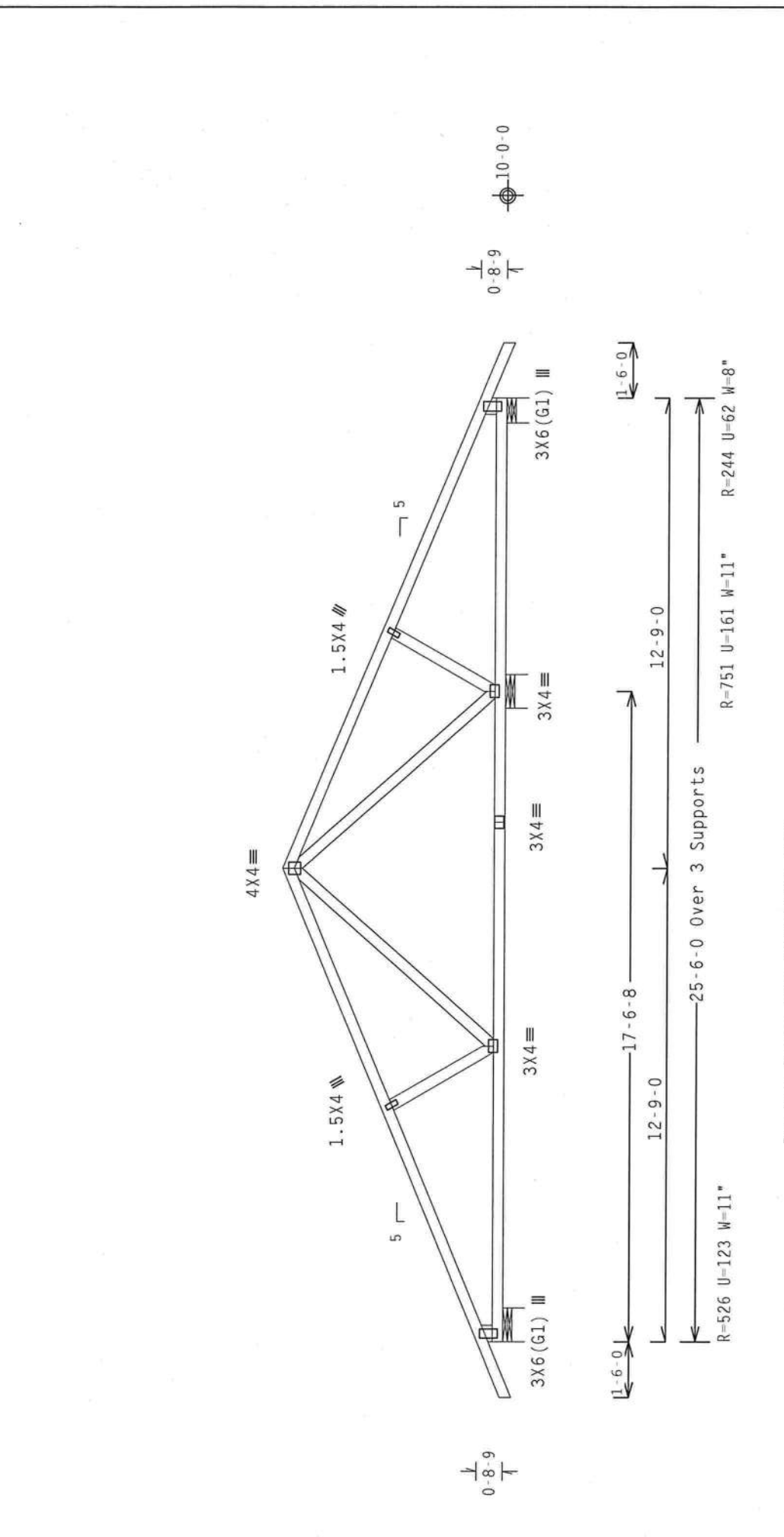


**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
License # 00000000000000000000000000000000

James City, FL 33644  
 FL Certificate of Authentication # 0070

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3::Rt Stubbed Wedge 2x4 SP #3:  
Trusses to be spaced at 16.0" OC maximum.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. 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(+/-)=0.55  
Wind reactions based on MWFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

Scale = .25"/Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26101       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338028 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63600              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0000

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

04 '07

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @12.00" o.c.  
 Webs : 1 Row @ 4" o.c.

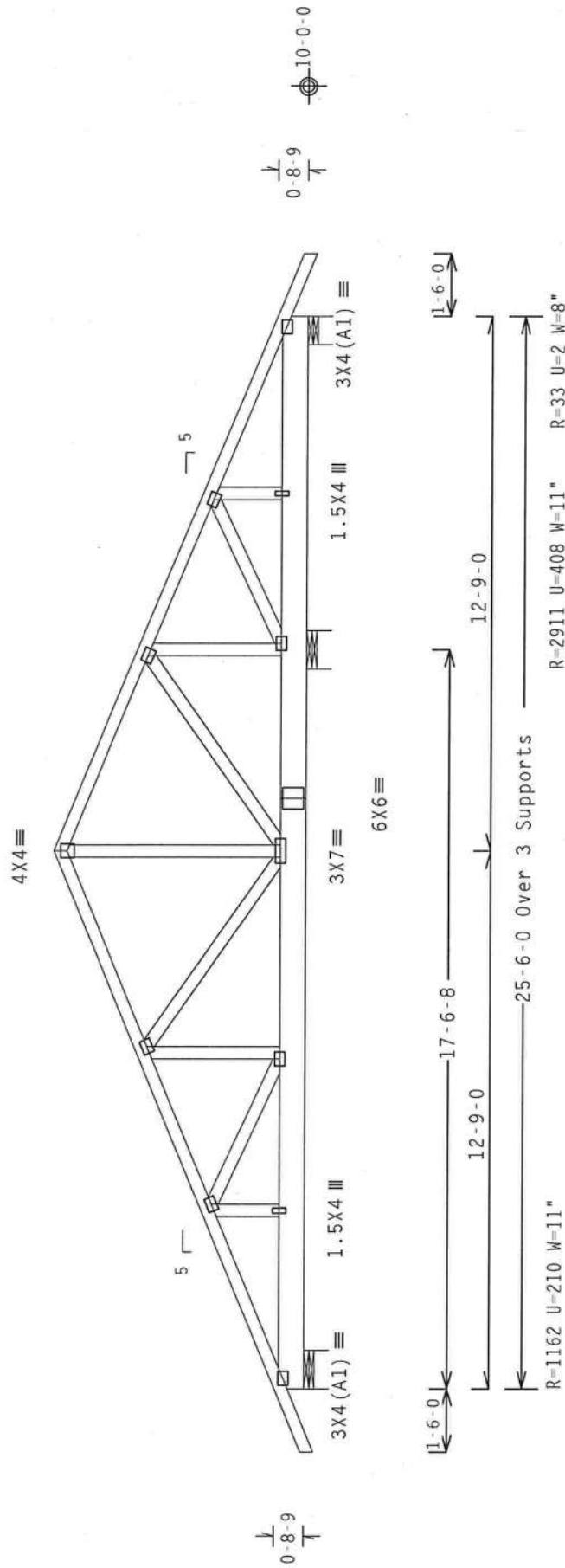
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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 Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

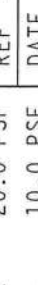
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

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

Scale = .25"/Ft.



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

**WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY ITI TRUSS PLATE INSTITUTE, 214 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MTCA (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 TPI1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI1. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/M/SS/P) ASTM A653 GRADE 40/60 (W, K/JH/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS1/TPI1 SEC. 2.

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

**ITW Certificate of Authorization # 0378**

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0378



## 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d\_Common\_(0.148"x3.25",\_min.)\_nails)

Top Chord: 1 Row @12.00" o.c.

Bot Chord: 1 Row @12.00" o.c.

Webs : 1 Row @ 4" o.c.

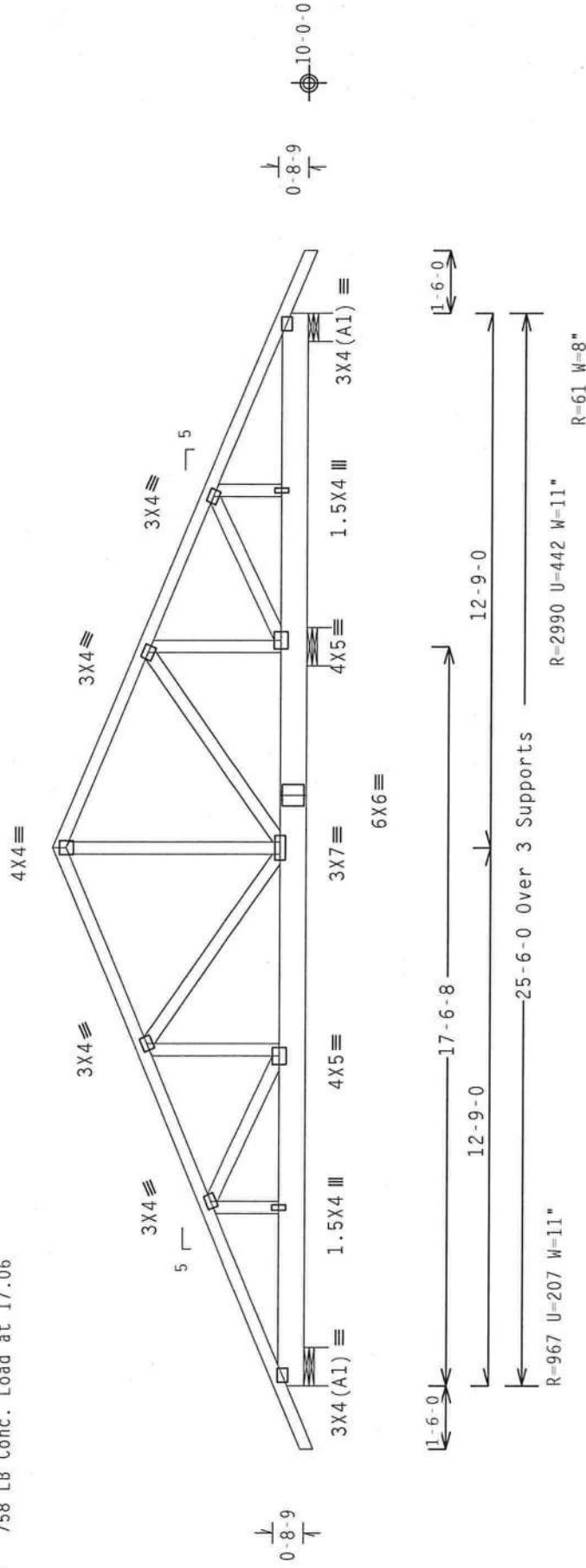
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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,  $I_w=1.00$  GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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



Design Crit: TPI-2002(STD)/FBC

 $C_0/RT=1.00(1.25)/0(0)$ 

042

OTY:1 FI/-/4/-/-/R/-

$$\text{Scale} = 25''/\text{ft}$$
[illegible]

**\*\*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 IT1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC STEEL DESIGN SPEC., BY AISC AND TPI. CONNECTOR PLATES ARE MADE OF 201M/16GA (43/55/5/K) ASTM A563 GRADE 40/60 (43/55) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T69A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. 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 ANS/TP1.1 SEC. 2.



ALPINE

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

James City, FL 33844  
FL Certificate of Authentication # 0000

|     | Top   | chord | 2x4 | SP | #2    | Dense | :T2 | 2x6 | SP | #2: |
|-----|-------|-------|-----|----|-------|-------|-----|-----|----|-----|
| Bot | chord | 2x6   | SP  | #1 | Dense |       |     |     |    |     |
|     | webs  | 2x4   | SP  | #3 |       |       |     |     |    |     |

1110 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

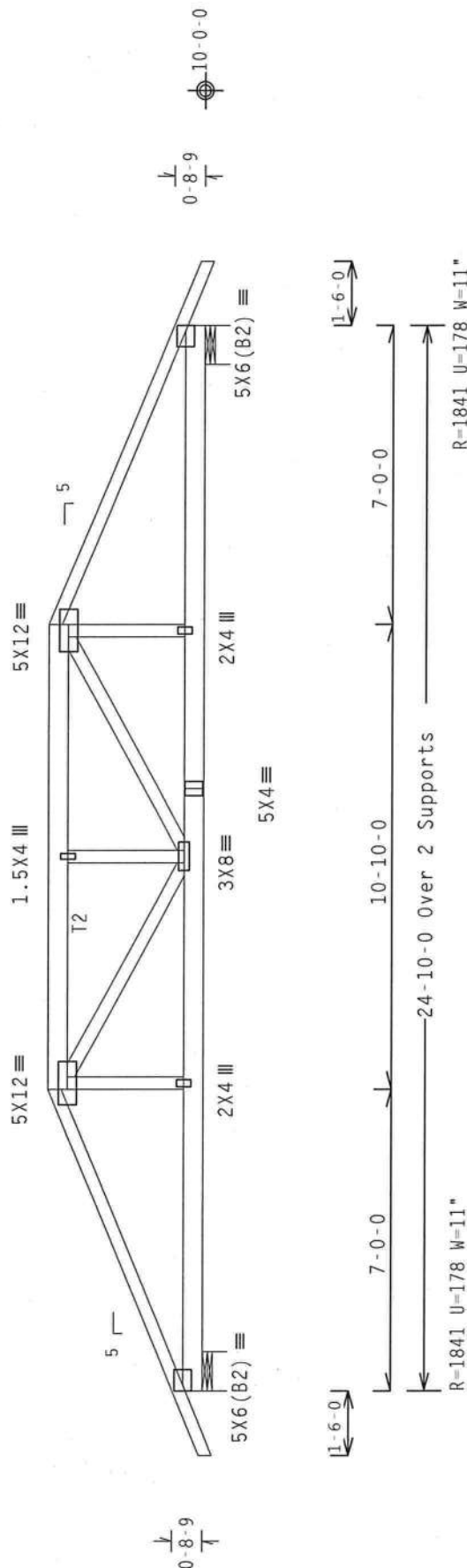
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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

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



Design Crit: TPI-2002(STD)/FBC

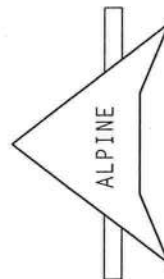
 $Cq/RT=1.00(1.25)/0(0)$  7.36.042

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

Scale = .25"/Ft.

**WARNING:** TRUSSES REQUIRE EXTREME CARE IN ERECTION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSP (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, 1001 GALEN RD., GAITHERSBURG, MD 20878-1143, FOR ADDITIONAL INFORMATION. TRUSS COUNCIL OF AMERICA, 210 NORTH LEE STREET, SUITE 312, ALXANDRIA, VA 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 1000 ENTERPRISE LANE, BOWLING GREEN, OH 43403, 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.

|                                                                                     |          |       |     |        |                    |
|-------------------------------------------------------------------------------------|----------|-------|-----|--------|--------------------|
|  | TC LL    | 20.0  | PSF | REF    | R8228- 26104       |
|                                                                                     | TC DL    | 10.0  | PSF | DATE   | 12/04/07           |
|                                                                                     | BC DL    | 10.0  | PSF | DRW    | HCUSR8228 07338081 |
|                                                                                     | BC LL    | 0.0   | PSF | HC-ENG | JB/DF              |
|                                                                                     | TOT.LD.  | 40.0  | PSF | SEQN-  | 63606              |
|                                                                                     | DUR.FAC. | 1.25  |     | FROM   | AH                 |
|                                                                                     | SPACING  | 16.0" |     | JREF-  | 1TCZ8228Z01        |

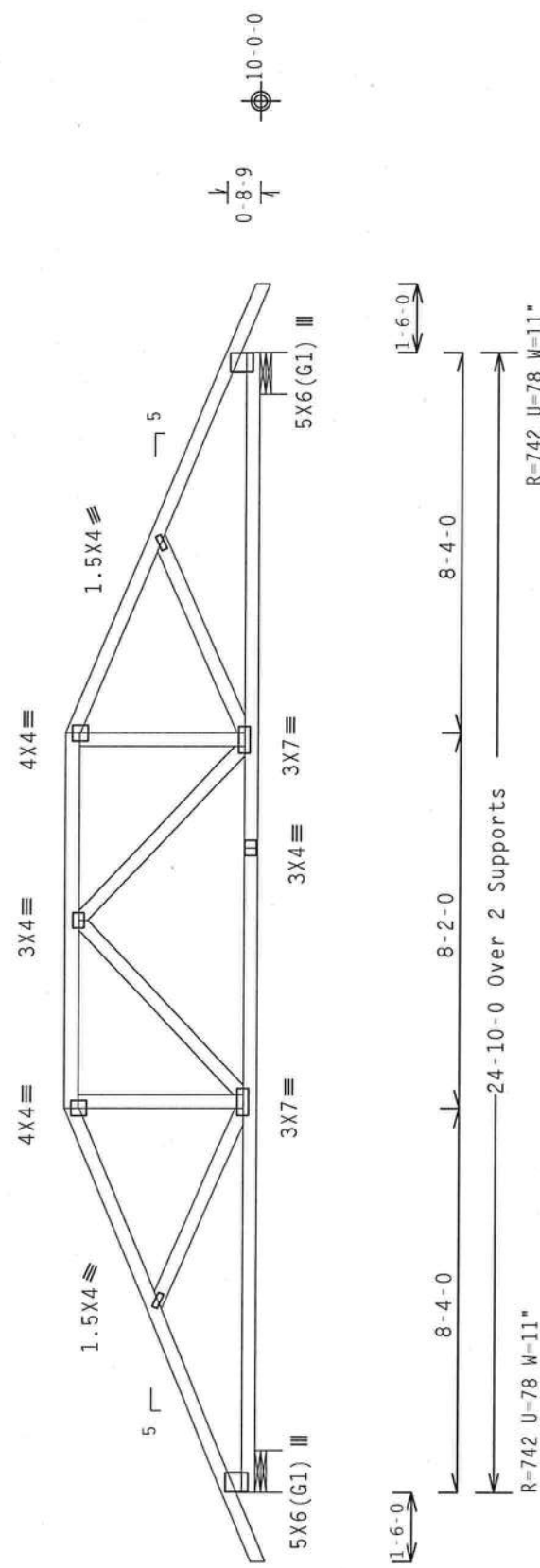


**ITW Building Components Group, Inc.**  
Haines City, FL 33844

FL Certificate of Authorization # 0770

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3::Rt Stubbed Wedge 2x4 SP #3:  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCpl(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Trusses to be spaced at 16.0" OC maximum.



Design Crit: TPI-2002(STD)/FBC

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

7.36.042

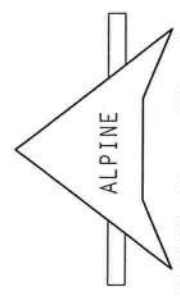
QTY:1

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, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 BCS NATIONAL DESIGN SPEC. BY AF&PA AND TPI. ITM BCG CONNECTOR PLATES ARE MADE OF 2010/1600 (4-H/55/74) ASTM A653 GRADE 40/60 (4, K/H/SS) GALV. STEEL. APPLY PROTECTIVE COATING TO ALL EXPOSED SURFACES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWING BY THE INSTALLATION CONTRACTOR SHALL BE FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization #00000000



|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228 - 26105      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338029 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN   | 63661              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JRFF   | 1TCZ8228Z01        |







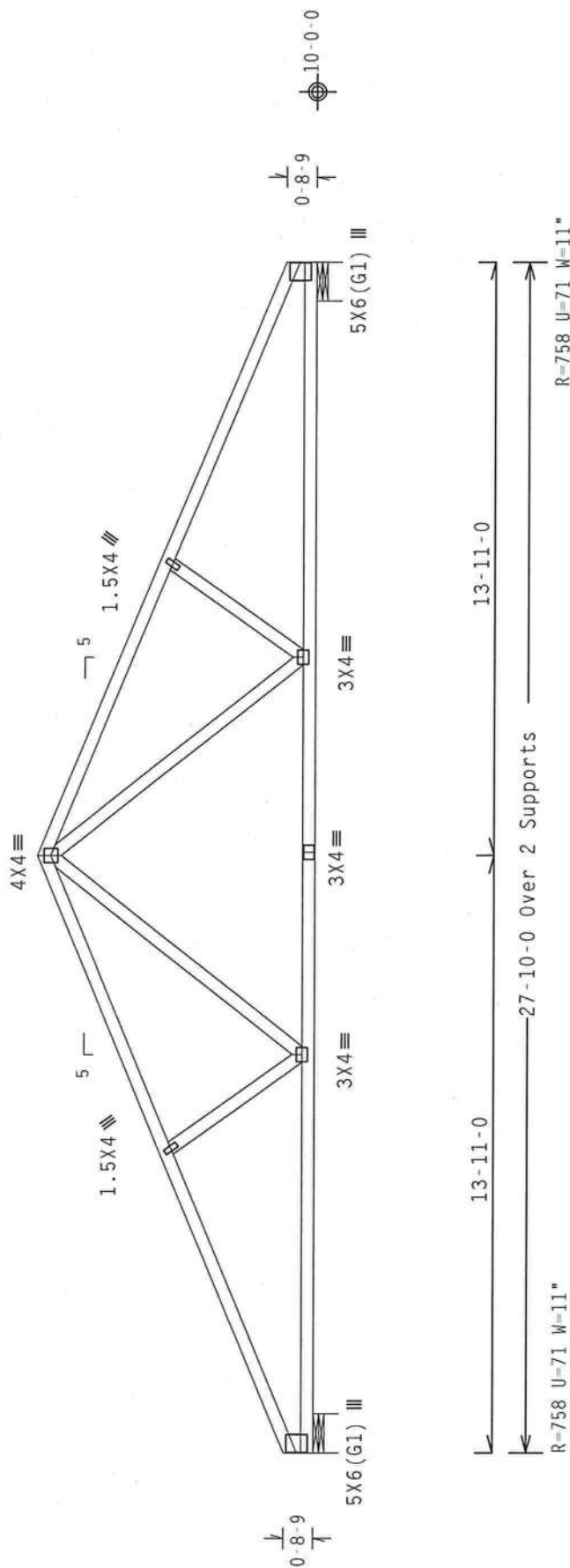




110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

Scale = .25" / Ft.

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

0494 GAS FLEA

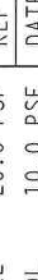
7.36.0

$$-0.00(1.25)/0(0)$$
 $Cq/RT=1$ 

0000

e

PLT TYP. Wave



**ALPINE**

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

Location # 0000

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PDA) AND TPI. ITW BEG CONNECTOR PLATES ARE MADE OF 20/310/16GA (M-H/SS/K) ASTM A653 GRADE 40/60 (M. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-72. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ABEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



|          |       |     |
|----------|-------|-----|
| TC LL    | 20.0  | PSF |
| TC DL    | 10.0  | PSF |
| BC DL    | 10.0  | PSF |
| BC LL    | 0.0   | PSF |
| TOT.LD.  | 40.0  | PSF |
| DUR.FAC. | 1.25  |     |
| SPACING  | 16.0" |     |

REF R8228- 26110

DATE 12/04/07

DRW HCUSR8228 07338032

HC-ENG JB/DF

SEQN- 64082

FROM AH

JREF- 1TC78228Z01

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

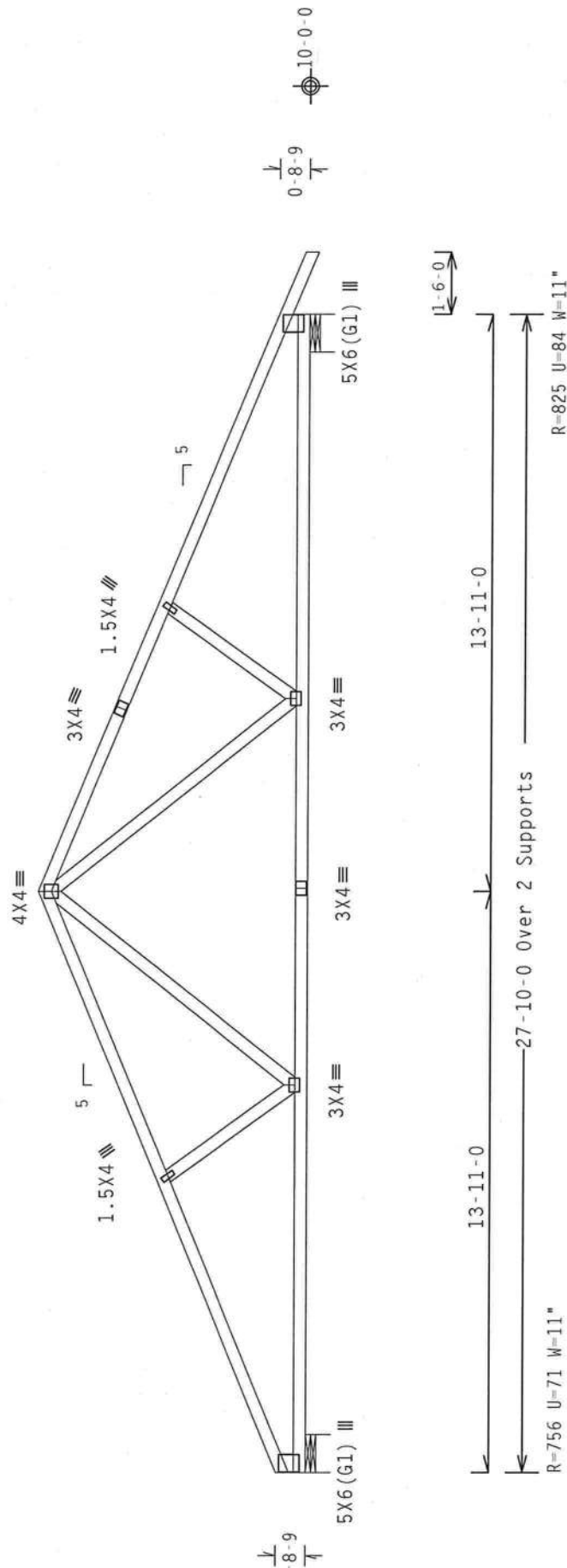
: Lt Stubb'd Wedge 2x4 SP #3: Rt Stubb'd Wedge 2x4 SP #3:

Trusses to be spaced at 16.0" OC maximum.

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

Wind reactions based on MWFRS pressures.

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

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

PLT TYP. Wave

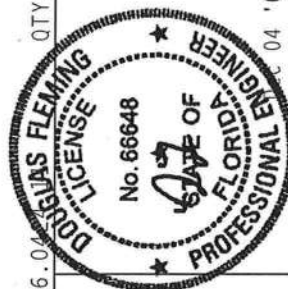
| FI 2002 (310) / FBC | Cq/RT=1.00(1.25) / 0(0) | 7 36.04 |
|---------------------|-------------------------|---------|
|                     |                         |         |

QTY: 1 FI / - / 4 / - / - / R / -

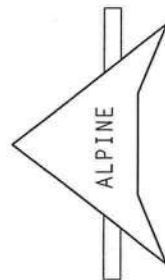
Scale = .25"/Ft.

\*WARNING\* FRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. PUBLISHED PERMIT NO. 1000  
 \*\*WARNING\*\* OUTLUGGING COMPONENTS MUST BE PROPERLY ATTACHED TO THE FRUSS PANELS PRIOR TO PERFORMING THESE FUNCTIONS. 6300  
 NORTH LEE ROAD, SUITE 312, ALEXANDRIA, VA 22314, AND VTC, 3800  
 ENTERPRISE LANE, WEST SUITE 310, # 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 3800  
 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 BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ITW BCG'S SPECIFICATIONS, INCLUDING FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTION PLATES ARE MADE TO THE SPECIFICATIONS OF AISC (NATIONAL DESIGN SPECIFICATION), AISC 360-10, AISC 360-16, AISC 360-17, AISC 360-18, AISC 360-19, AISC 360-20, AISC 360-21, AISC 360-22, AISC 360-23, AISC 360-24, AISC 360-25, AISC 360-26, AISC 360-27, AISC 360-28, AISC 360-29, AISC 360-30, AISC 360-31, AISC 360-32, AISC 360-33, AISC 360-34, AISC 360-35, AISC 360-36, AISC 360-37, AISC 360-38, AISC 360-39, AISC 360-40, AISC 360-41, AISC 360-42, AISC 360-43, AISC 360-44, AISC 360-45, AISC 360-46, AISC 360-47, AISC 360-48, AISC 360-49, AISC 360-50, AISC 360-51, AISC 360-52, AISC 360-53, AISC 360-54, AISC 360-55, AISC 360-56, AISC 360-57, AISC 360-58, AISC 360-59, AISC 360-60, AISC 360-61, AISC 360-62, AISC 360-63, AISC 360-64, AISC 360-65, AISC 360-66, AISC 360-67, AISC 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|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26111       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338033 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 64087              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 00000

Haines City, FL 33844  
FL Certificate of Accreditation # 00370





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

: Lt Stubbied Wedge 2x4 SP #3:

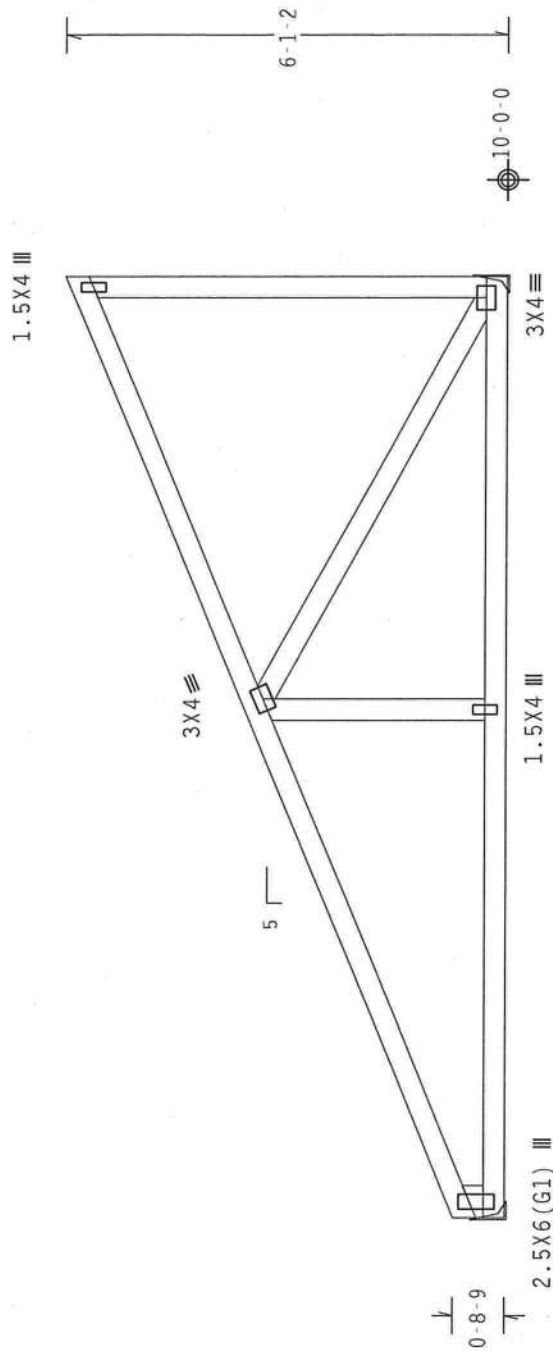
Trusses to be spaced at 16.0" OC maximum.

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

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



12-11-0 Over 2 Supports

R=352 U=13

Design Crit: TPI-2002(STD)/FBC

| $\text{Ca}/\text{RT}=1.00(1.25)/0(0)$ | 7.36-042 |
|---------------------------------------|----------|
| FFI=2002(310)/FBC                     |          |

QTY: 1

FI 1-141-1-1R1-

Scale = 375" / Ft

**WARNING:** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, TESTSTALLING AND BRACING. REFER TO BCS1 BUILDING COMPONENT SAFETY SYSTEM (CRUSS PLATE INSTITUTE, 4300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) AND AEC-100 TRUSS CONNECTIONS (CRUSS PLATE INSTITUTE, 4300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) 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 CITYRIMS.

**\*\*IMPORTANT\*\***TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR ITR BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TP-1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITR BCG DESIGN COMPANIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PMA) AND TPI-1. ITR BCG DESIGN COMPANIES WILL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN SPECIFICATION. A SEAL ON THIS INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ABX6 K.3 OF TPI-1-P009 SECTION 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT AND USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ABX6 K.3 OF TPI-1-P009 SECTION 3.



ALPINE

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

FL Certificate of Authorization # 0270

04 '07

DUR.FAC. 1.25

FROM AH

REF- 1TCZ8228Z01

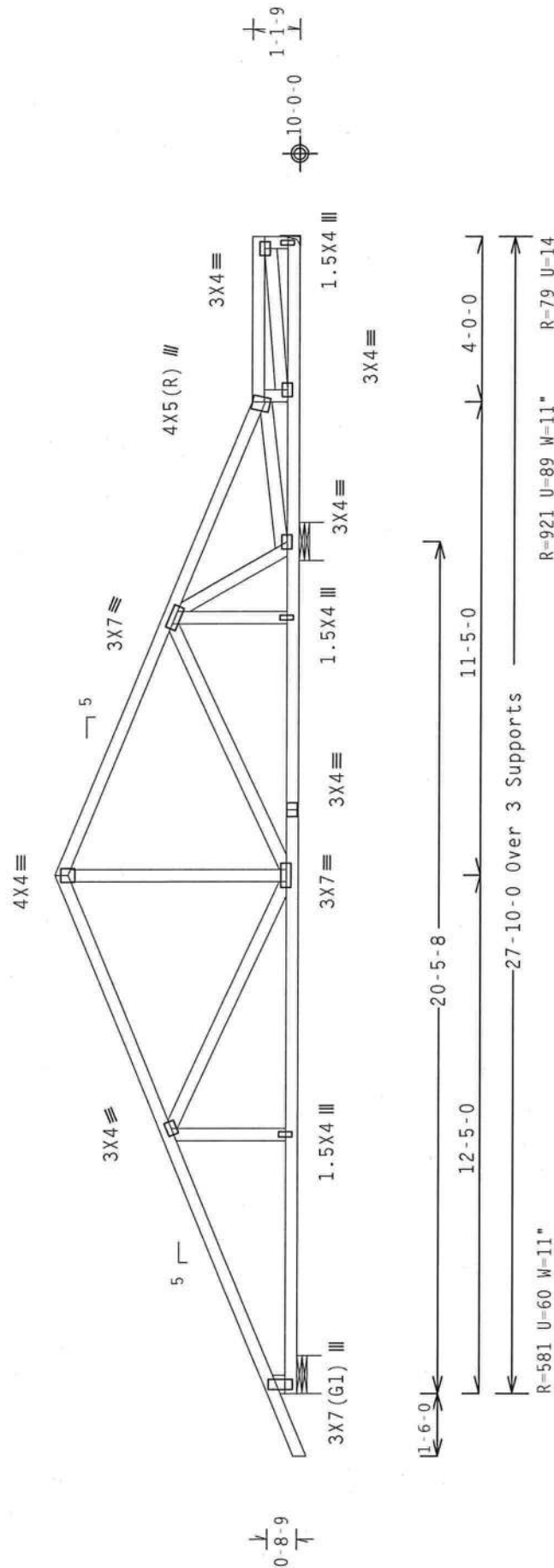
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3:

1110 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 MWFRS pressures.  
Trusses to be spaced at 16.0' OC maximum.

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

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



Design Crit: TPI-2002(STD)/FBC

| FI 2002 (310) / FBC | Cg/RT=1.00 (1.25) / 0(0) | 7.36.042 |
|---------------------|--------------------------|----------|
|                     |                          |          |

QTY:1 FI / - / 4 / - / - / R / -

Scale = 25"/Ft.

**\*\*\*WARNING\*\*\*** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALWAYS USE PROPER BRACING COMPONENTS. PUBLISHED BY TPI CRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 100, FORT WORTH, TEXAS 76104. PHONE (800) 460-0000. FAX (817) 335-1100. E-MAIL: TPI@CRUSSPLATE.COM. © 2000 CRUSS PLATE INSTITUTE OF AMERICA, 210 NORTH LEE STREET, SUITE 100, FORT WORTH, TEXAS 76104. TPI 53719. FOR SAFETY PRACTICES PREVENTING THESE INCIDENTS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC.), BY APA/PAN, AND IPT. ITM BCG HAS BEEN ADVISED THAT THE FOLLOWING INFORMATION IS REQUIRED TO BE FURNISHED TO THE INSTALLER:

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2 THROUGH 160A-7.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES A3 OF DPTI 2002 SEC. 2.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS PROJECT. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMES A1P1 1 SEC. 2.



**ITW Building Components Group, Inc.**

Haines City, FL 33844

FL Certificate of Adoption # 0070

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3:

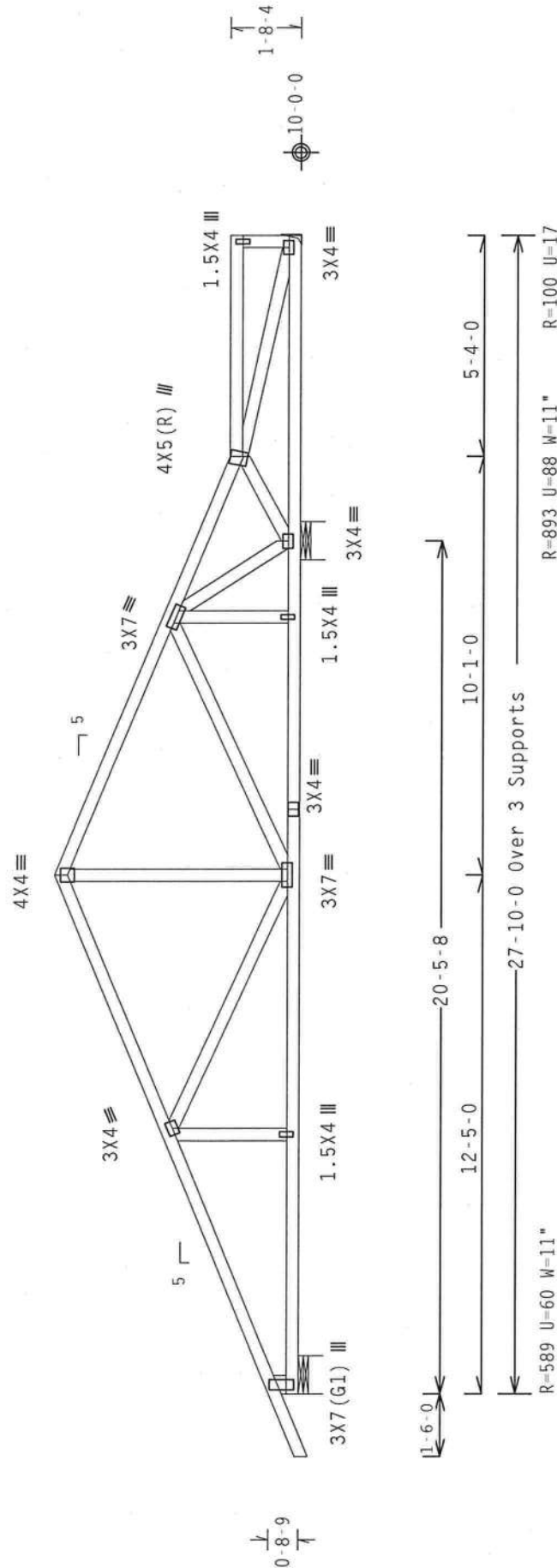
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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

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

Design Crit:  $\text{TPI-2002(STD)}/\text{FBC}$   
 $\text{Ca}/\text{RT}=1.00(1.25)/$ 

PLT TYP. Wave

7.36.04

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

Scale = 25"/Ft.



ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0370

[illegible]

Top chord 2x4 SP #2 Dense  
3ot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubb'd Wedge 2x4 SP #3:

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpl(+/-)=0.18

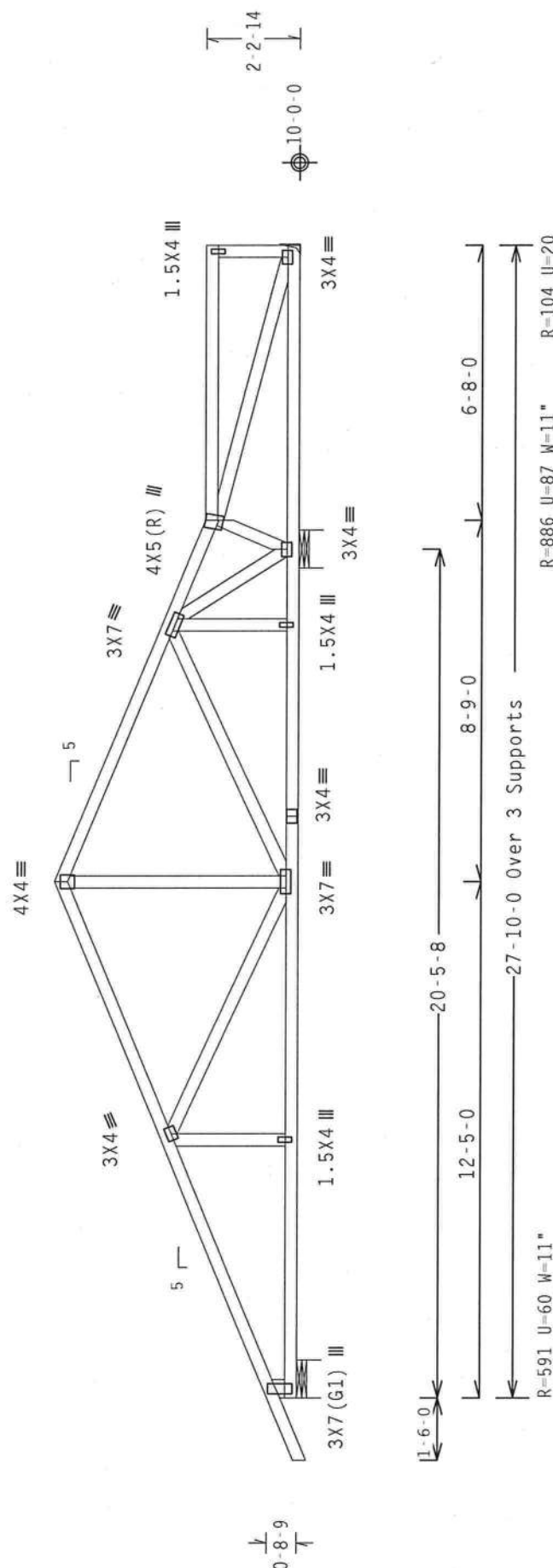
Wind reactions based on MWFRS pressures.

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

Right end vertical not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.

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



Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/0(0)$  7.36.042

QTY:1

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

Scale = .25"/Ft.

**\*WARNING\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSC (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY THE CONCRETE PAVING INSTITUTE, 218 MURPHY LANE, SUITE 312, ALEXANDRIA, VA, 22314, AND AISC (STEEL TRUSS COUNCIL OF AMERICA, 1000 LINTSE 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 PROPERLY ATTACHED RIGID CELLING.

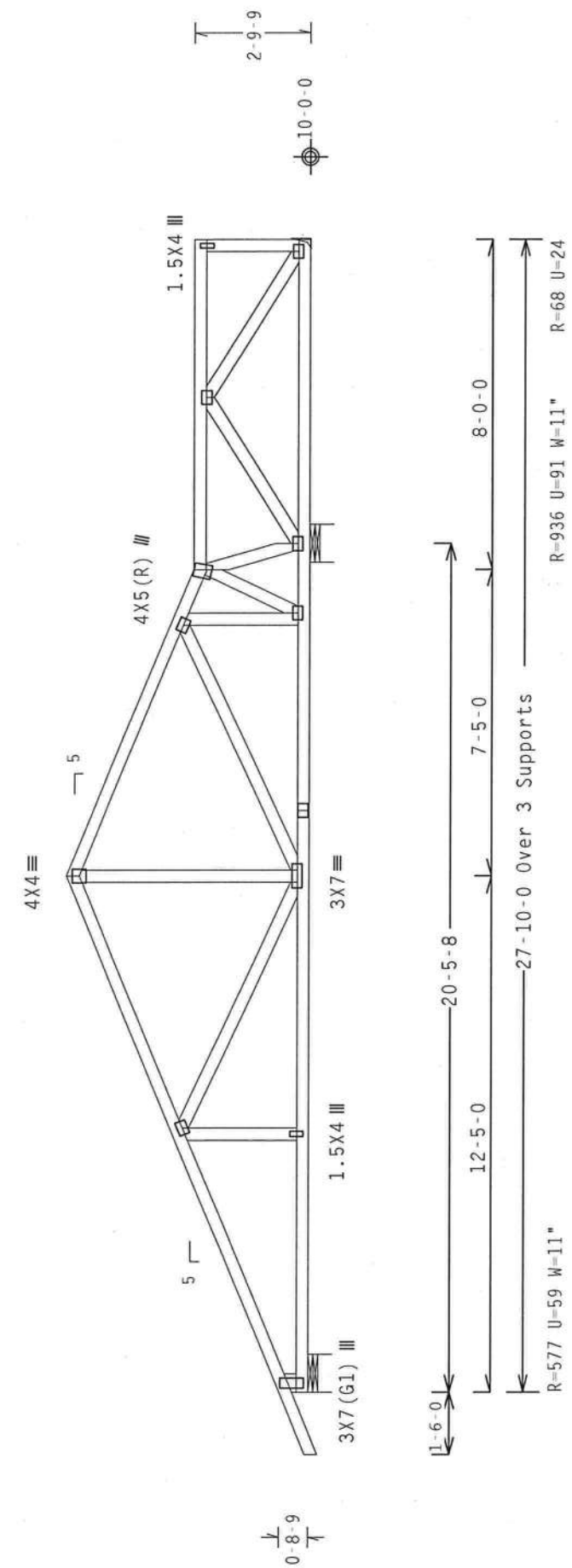


|         |      |     |
|---------|------|-----|
| TC LL   | 20.0 | PSF |
| TC DL   | 10.0 | PSF |
| BC DL   | 10.0 | PSF |
| BC LL   | 0.0  | PSF |
| TOT.LD. | 40.0 | PSF |

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX A3 OF TP11-2002 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/TP1 1 SEC. 2.

|          |       |
|----------|-------|
| DUR.FAC. | 1.25  |
| SPACING  | 10.00 |

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Studded Wedge 2x4 SP #3:  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Trusses to be spaced at 16.0" OC maximum.  
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 MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 3x4 Except As Shown.  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.042  
PLT TYP. Wave

Scale = .25"/Ft.

| QTY:1 | FL/-/4/-/-/R/- | TC LL    | 20.0 PSF                                          | REF    | R8228- 26117       |
|-------|----------------|----------|---------------------------------------------------|--------|--------------------|
|       |                | TC DL    | 10.0 PSF <td>DATE</td> <td>12/04/07</td>          | DATE   | 12/04/07           |
|       |                | BC DL    | 10.0 PSF <td>DRW</td> <td>HCUSR8228 07338038</td> | DRW    | HCUSR8228 07338038 |
|       |                | BC LL    | 0.0 PSF <td>HC-ENG</td> <td>JB/DF</td>            | HC-ENG | JB/DF              |
|       |                | TOT.LD.  | 40.0 PSF <td>SEQN-</td> <td>64153</td>            | SEQN-  | 64153              |
|       |                | DUR.FAC. | 1.25                                              | FROM   | AH                 |
|       |                | SPACING  | 16.0"                                             | JREF-  | 1TCZ8228Z01        |

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Architecture # 0000

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

11/11/07

11/11/07



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubby Wedge 2x4 SP #3:

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

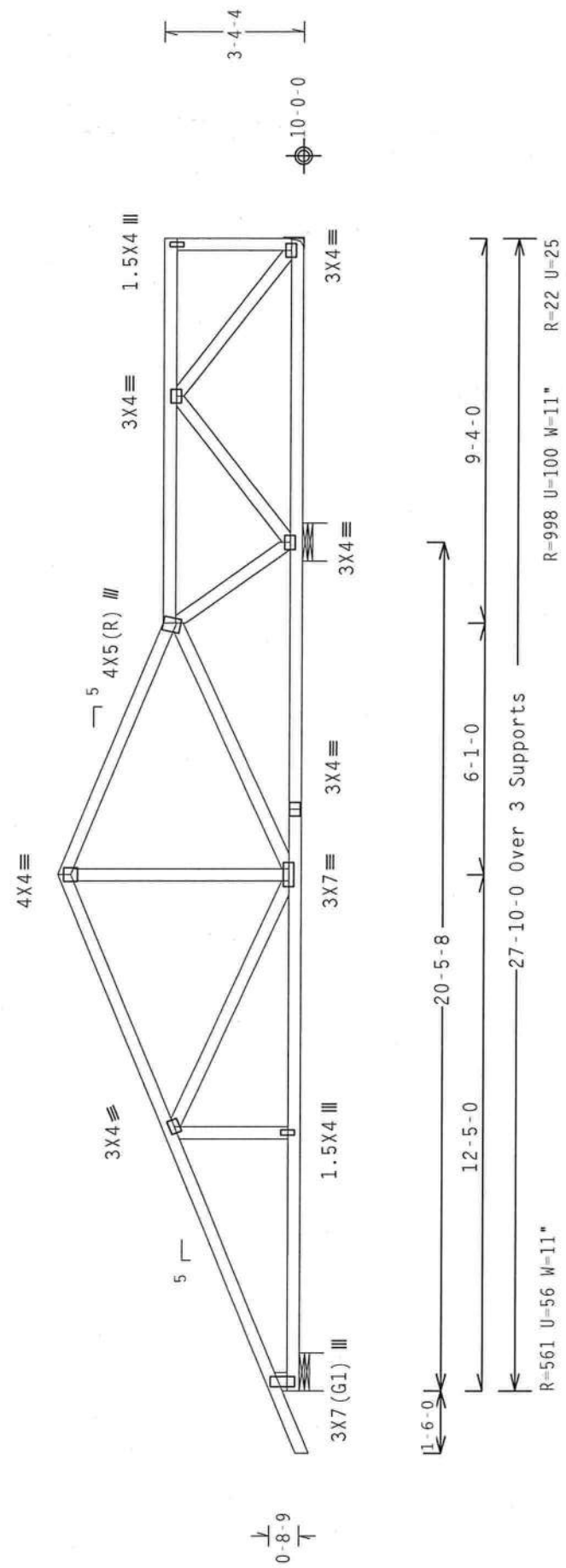
Trusses to be spaced at 16.0" OC maximum.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.042

PLT TYP. Wave

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

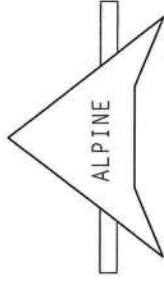
Scale =.25"/Ft.

**\*\*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, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ITW BCG PLATE DESIGNER PLATES ARE MADE OF 2010/1600 (4-H/55/8) ASTM A653 GRADE 40/60 (4, 8/H-55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI. UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. 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    | 20.0 PSF | REF    | R8228 - 26118      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338039 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN   | 64160              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF   | 1TCZ8228Z01        |



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0530

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3:

1110 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, wind BC DL=5.0 GCpi(+/-)=0.18

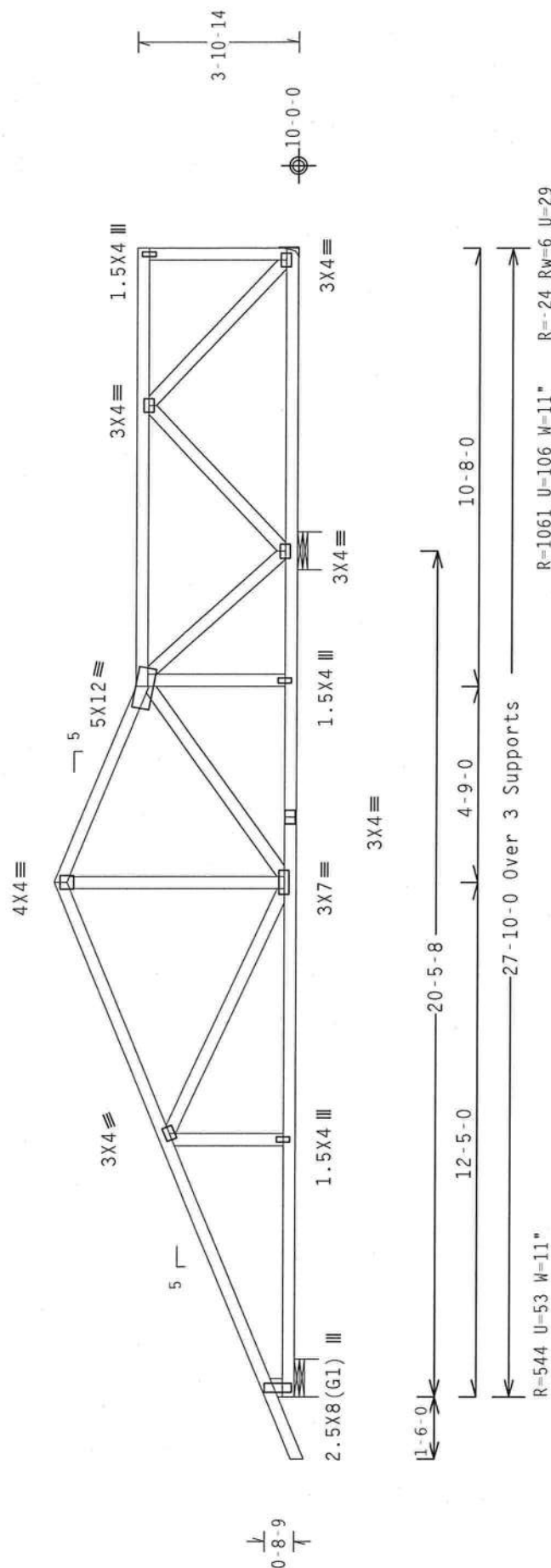
Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

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

Trusses to be spaced at 16.0" OC maximum.



Design Crit: TPI-2002(STD)/FBC

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

7.36.04

OTY:1

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

Scale = 25" / Ft

[illegible][illegible]

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00370

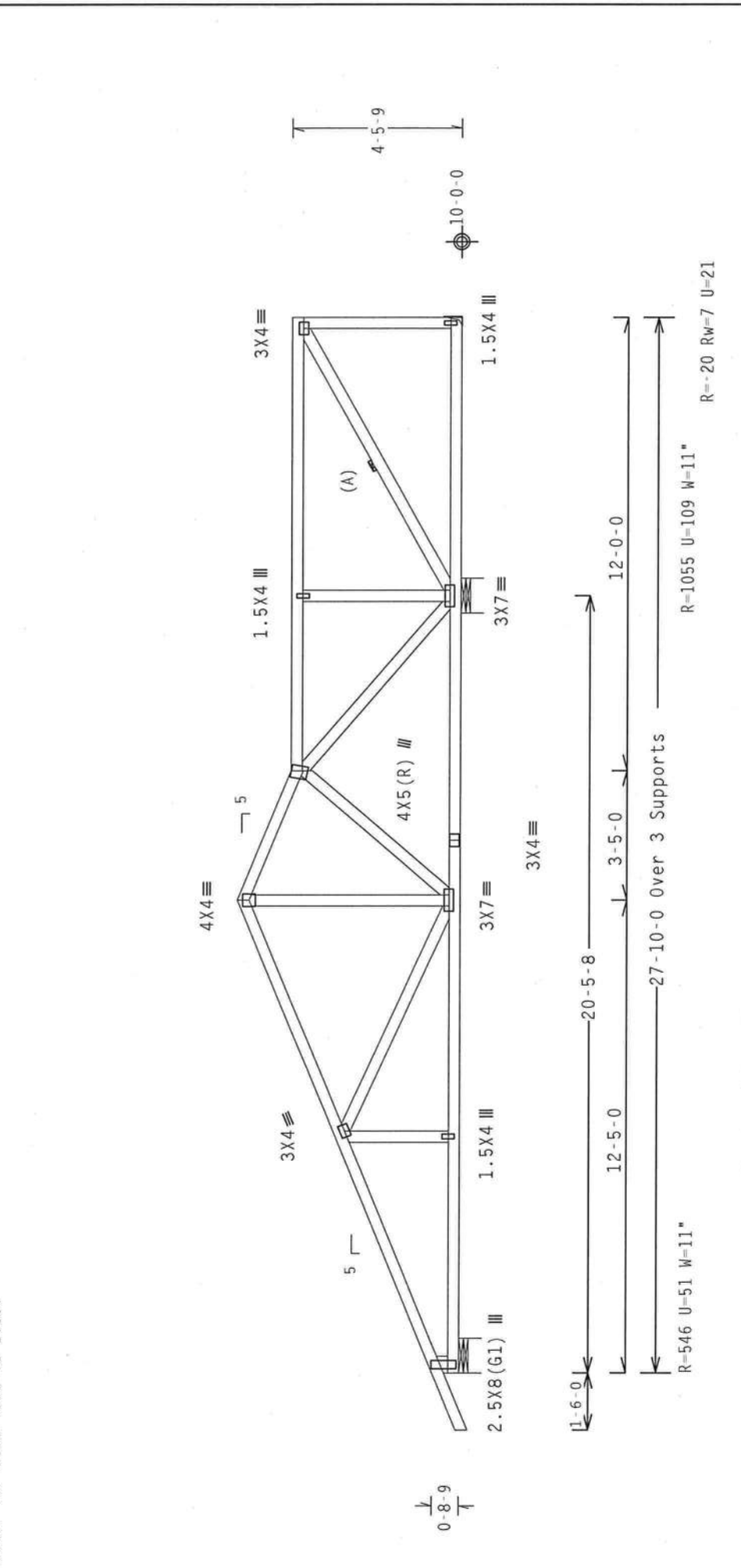
James City, IL 62044  
 IL Certificate of Authentication # 0370

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

Wind reactions based on MUEDC procedure

in lieu of structural panels use purlins to brace all flat TC @ 4' OC.

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



Design Crit: TPI-2002(STD)/FBC  
 C<sub>g</sub>/RT=1.00(1.25)/0(0)  
 Scale = 25"/E+  
 El / -4 / - / -R / -  
 7.36.042  
 TYP. 1  
 INSER

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |          |          |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|----------|------------------------|
| <b>**WARNING**</b> TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION: PERMANENTLY AFFIXED TO EACH TRUSS JOINT SHALL BE A CROSS PLATE INSTITUTIONAL, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304-5113, TELEPHONE (703) 544-3300, FAX (703) 544-3301, WWW.CROSSPLATE.COM. THESE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF CROSS PLATE INSTITUTIONAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |          |          |                        |
| <b>**IMPORTANT**</b> FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE USER SHALL BE RESPONSIBLE FOR THE TRUSS IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THIS NATIONAL DESIGN SPEC., BY AREA1 AND TP1. ITM BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (H/HSS/K) ASTM A653 GRADE 40/60 (H, 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 TP1-2002 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/TP1 1 SEC. 2. |  |          |          |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | TC LL    | 20.0 PSF | REF R8228 - 26120      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | TC DL    | 10.0 PSF | DATE 12/04/07          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | BC DL    | 10.0 PSF | DRW HCUSR8228 07338041 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | BC LL    | 0.0 PSF  | HC-ENG JB/DF           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | TOT.LD.  | 40.0 PSF | SEQN - 64172           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | DUR.FAC. | 1.25     | FROM AH                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | SPACING  | 16.0"    | JREF - 1TCZ8228Z01     |



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Lt Stubby Wedge 2x4 SP #3:

(A) Continuous lateral bracing equally spaced on member.

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

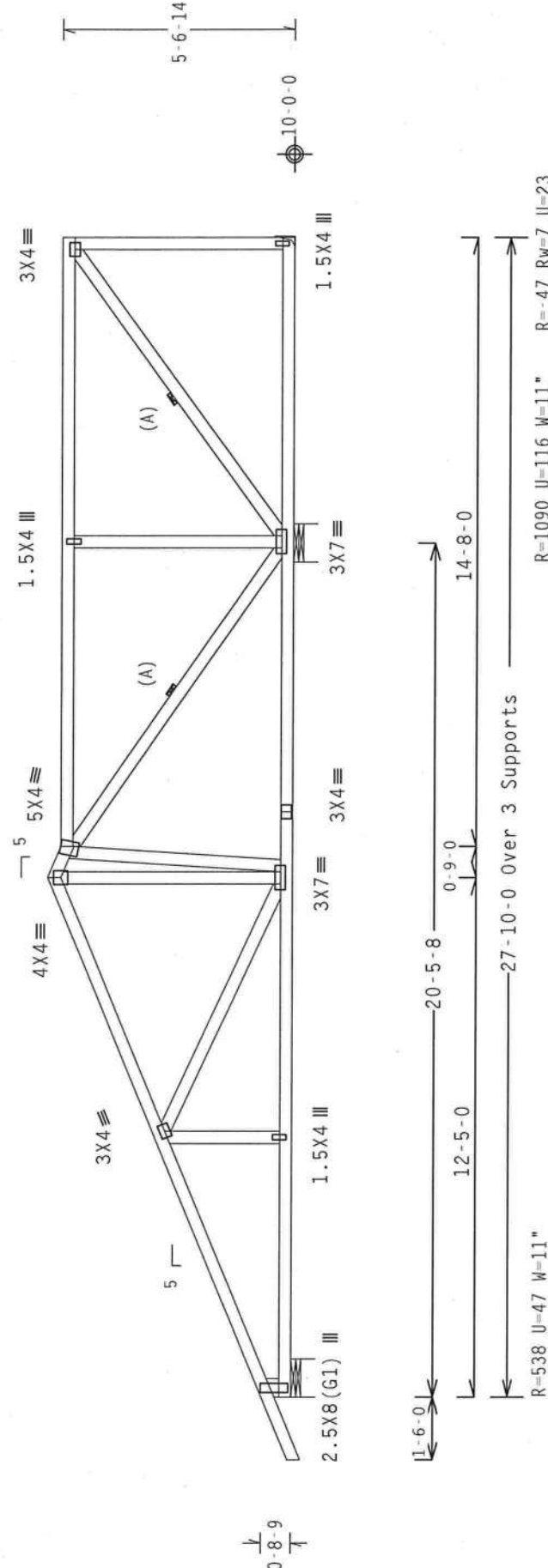
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.



Design Crit: TPI-2002(STD)/FBC

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

7.36.04

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

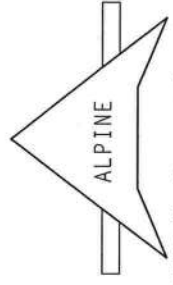
Scale = .25"/Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228 - 26122      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338043 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 64188              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCR222RZ01        |



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 131 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. 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 RDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITM BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (4-HYSS/4) ASTM A653 GRADE 40/60 (4, K/H/SS) GALV. STEEL. APPLY ANVETER FOR AGE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES 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 ANSI/TPI 1 SEC. 2.



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

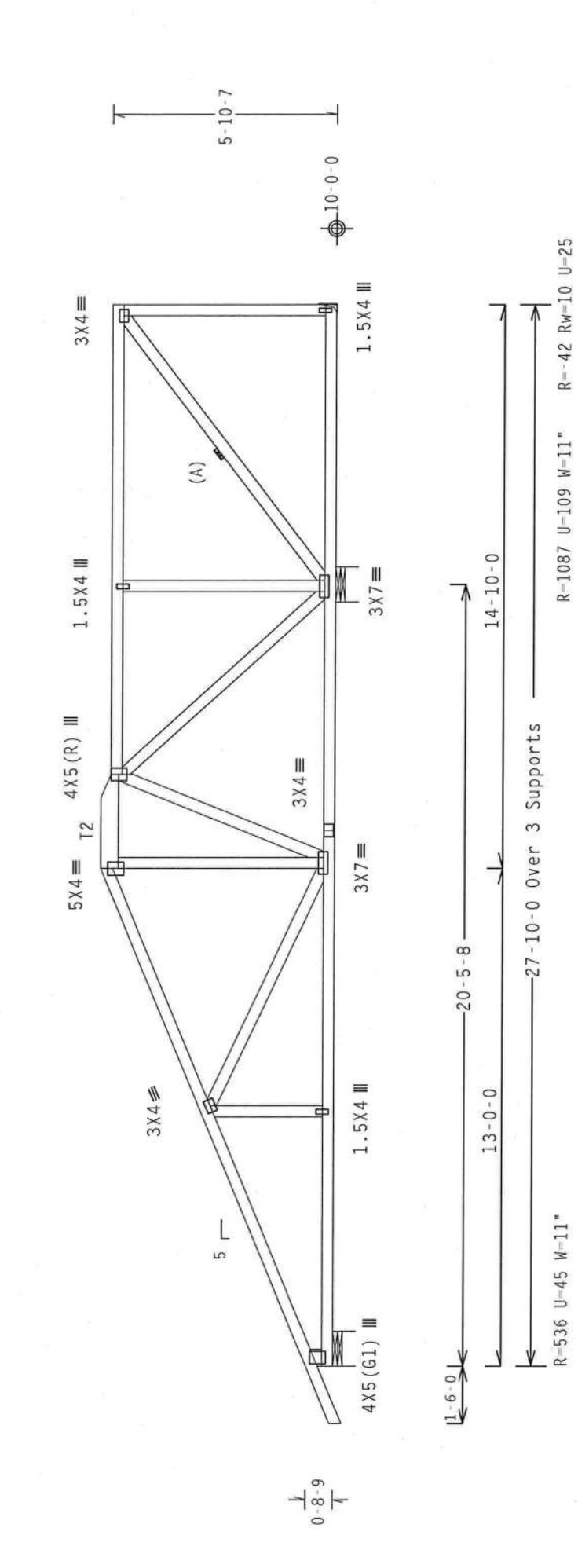


Top chord 2x4 SP #2 Dense :12 2x6 SP #2:  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubby Wedge 2x4 SP #3:

(A) Continuous lateral bracing equally spaced on member.  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Trusses to be spaced at 16.0" OC maximum.



Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

PLT TYP. Wave

Scale = .25"/Ft.

|        |                    |
|--------|--------------------|
| REF    | R8228 - 26123      |
| DATE   | 12/04/07           |
| DRW    | HCUSR8228 07338044 |
| HC-ENG | JB/DF              |
| SEQN   | 64206              |
| FROM   | AH                 |
| JREF   | 1TCZ8228Z01        |

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

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,  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Trusses to be spaced at 16.0" OC maximum.

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,  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Trusses to be spaced at 16.0" OC maximum.

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3:

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 Gcpi(+/-)=0.18

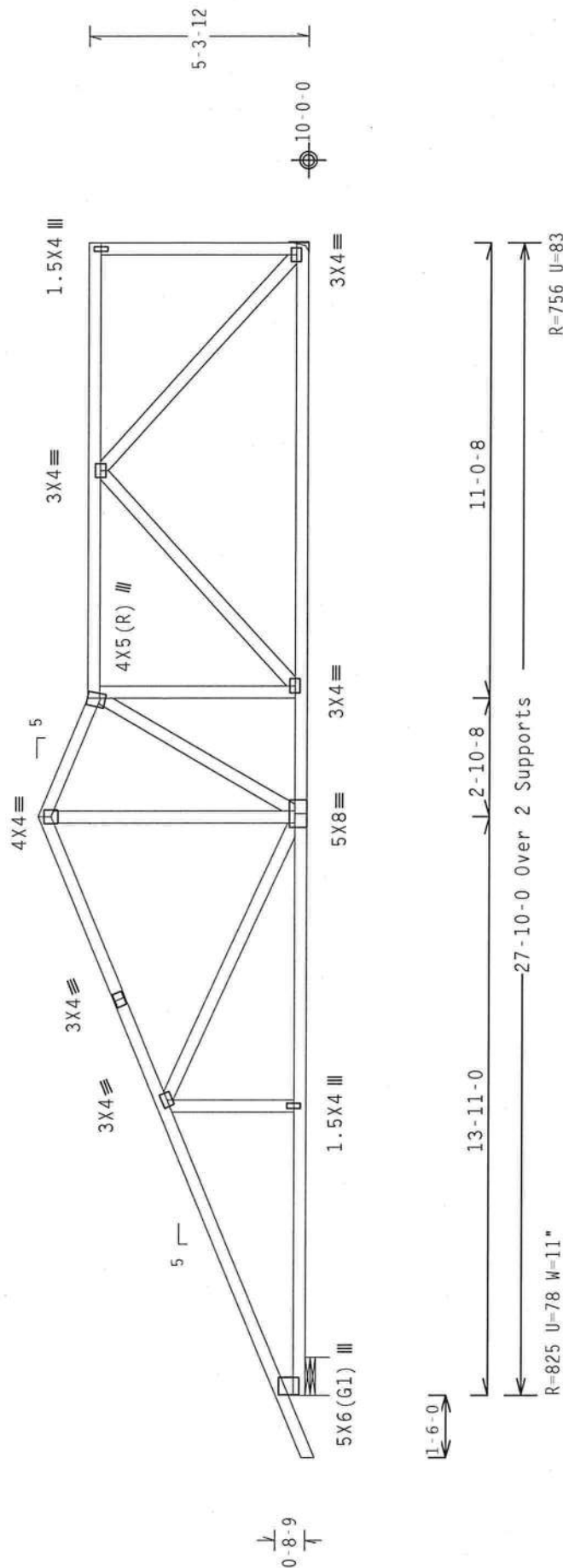
Wind reactions based on MNFRS pressures.

24<sup>th</sup> 0C.

Right end vertical not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.

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

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

PLT TYP. Wave

QTY:1 FL1-141-1-1R1-

Scale = .25"/Ft.

**\*WARNING\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS' FABRICATING COMPONENT INFORMATION, AND PUBLISHED BY TRUSS PLATE INSTITUTE, 2100 UNIVERSITY LANE, SUITE 310, ALEXANDRIA, VA, 22304 OR TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, WILSONVILLE, OR 97150 FOR SPECIFIC GUIDELINES TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID GIRDERS.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26124       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338045 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 64221              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |



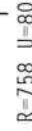
ALPINE

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

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



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



ITW B...

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3:

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $lw=1.00$  GCpi(+/-)=0.18

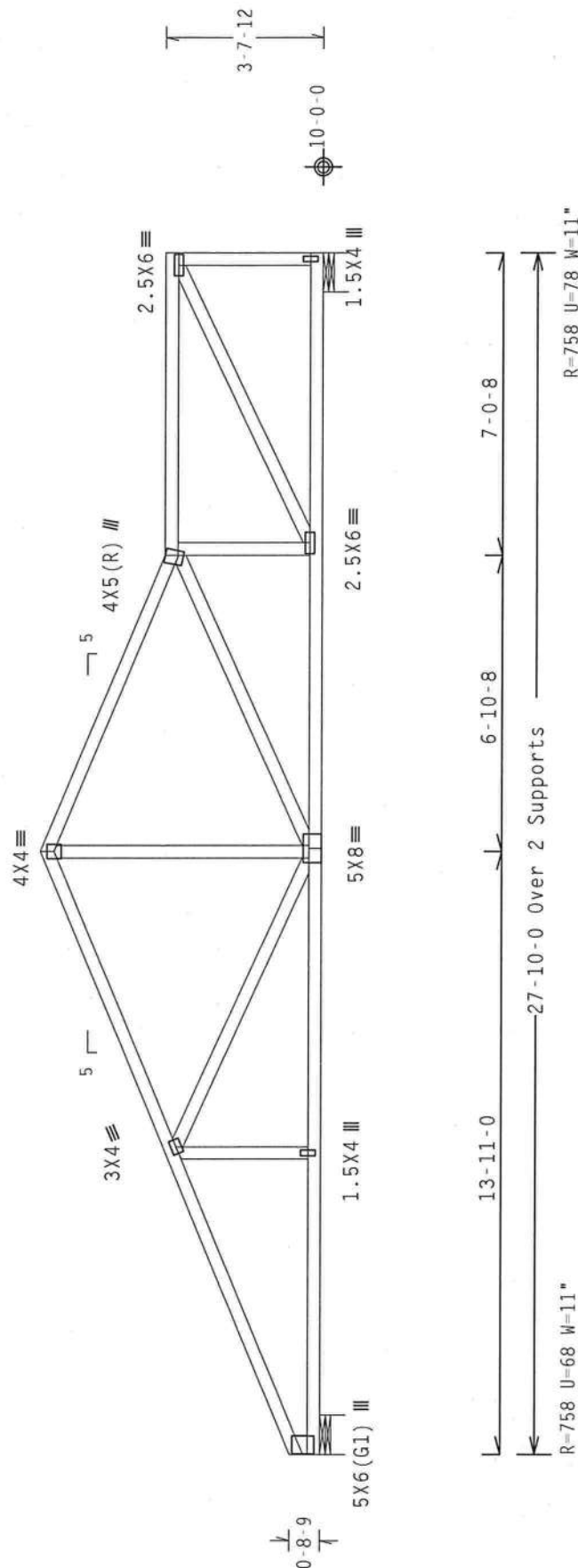
Wind reactions based on MWFRS pressures.

24<sup>th</sup> Oct.

Right end vertical not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.

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

Design Crit:  $\text{TPI-2002(STD) / FBC}$   
 $\text{Ca/RT}=1.00(1.25) /$ 

7.36.042A

QTY:1 EL1-141-1-1R1-

Scale = .25"/Ft.

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT 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 PROPERLY ATTACHED RIGID CEILING.

ALPINE

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

James City, FL 33844  
FL Certificate of Adoption # 00350





: Lt Stubbed Wedge 2x4 SP #3:

Trusses to be spaced at 16.0" OC maximum.

 $Cq/RT=1.00(1.25)/0(0)$  7.36.042 $Cq/RT=1.00(1.25)/0(0)$  7.36.042

QTY.1 FI / - / Δ / - / - / R / -

Scale = 25"/ft

**\*WARNING:** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. (SEE INSTRUCTIONS) PUBLISHED BY TPI (GRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) 1-800-468-2300. © 1990 TPI, A DIVISION OF AMERICA, ENTERPRISE LANE, WADESVILLE, NY 13219. FOR SAFETY REASONS, PRIOR TO PERFORMING THESE FUNCTIONS, THE USER MUST READ AND UNDERSTAND THE INSTRUCTIONS. ALL THUSSES MUST BE PROPERLY ATTACHED TO THE STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

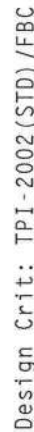
**\*\*IMPORTANT\*\***TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR AND BEC, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TPT; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITH BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAAPA) AND TPT. ALL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS POSITION PERMANENTLY MARKED WITH AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ARHES A3 OF TPT-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT MANUFACTURE AND USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER TPT-2002 SEC.3.



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Accreditation # 0070

Haines City, FL 33844  
FL Certificate of Accreditation # 0070

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

 $Cq/RT=1.00(1.25)/0(0)$  7 36 042

Scale = 25"/Ft.

|    |    |    |   |     |
|----|----|----|---|-----|
| TC | 11 | 20 | 0 | PCE |
|----|----|----|---|-----|

REF R8228- 26129

DATE 12/04/07

ORW HCU8R8228 07338005

ENCLOSURE

HC-ENG JB/DF

|       |       |
|-------|-------|
| SEQN- | 64260 |
|-------|-------|

FROM AH

REF- 1TCZ8228Z01

1000

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

:Lt Stubbed Wedge 2x4 SP #3:

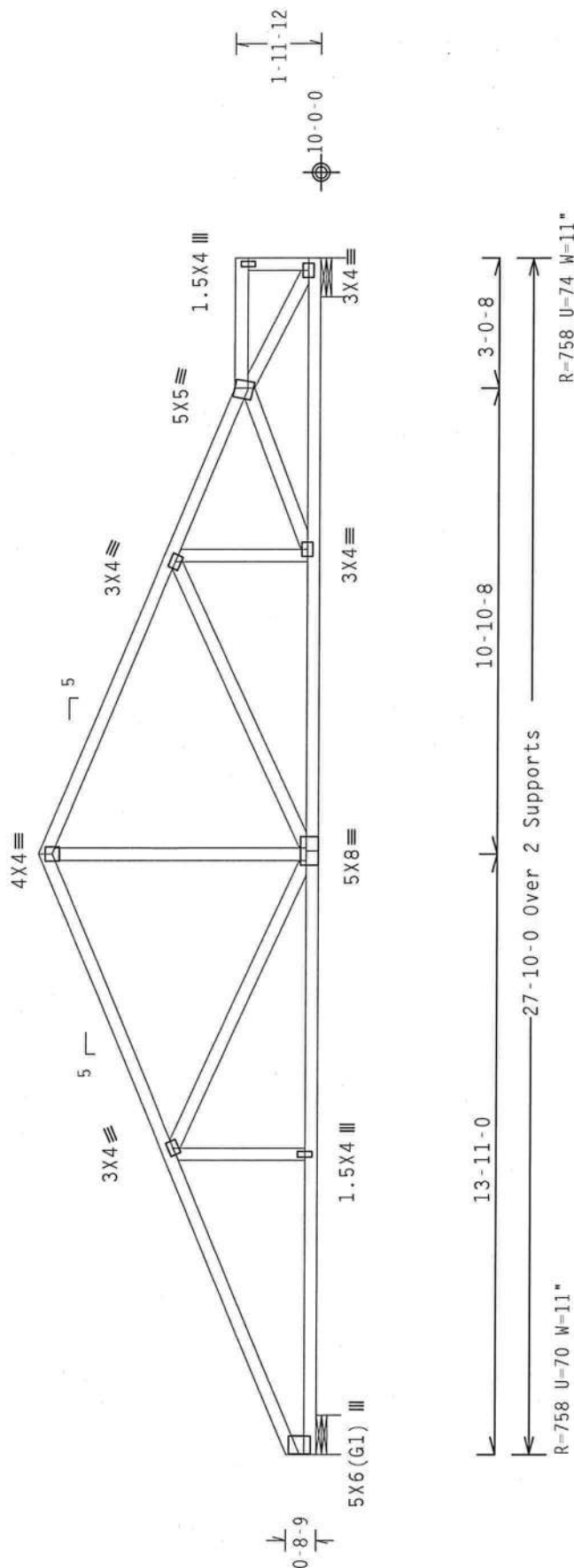
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

110 mph wind, 15.00 ft mean ht, 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, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

 $Cq/RT=1.00(1.25)/0(0)$  7.36.04

QTY:1 FI 1-141-1-1R1-

Scale = .25"/Ft.

[illegible]

**\*\*IMPORTANT\*\***-FURNISH 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 THIS DESIGN CONFORMS WITH THE MANUFACTURER'S AND NATIONAL DESIGN SPEC. BY AEA/AI AND TPI. ITN BCG CONNECTOR PLATES ARE MADE OF 2024/T6 ALUMINUM OR ANODIZED STEEL. GALV. STEEL APPLY PER DRAWING. ALL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, 1/8" THICK PER DRAWING. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANSI A3 OF TP1-2002 SEC. 3 FOR THE TRUSS COMPONENT DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE STRUCTURAL 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-      | 26130    |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228   | 07338006 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF       | *        |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 64270       |          |
| DUR.FAC. | 1.25  |     | FROM   | AH          |          |
| SPACING  | 16.0" |     | JREF-  | 1TC82828Z01 |          |

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

James City, FL 33844  
FL Certificate of Authentication # 0070

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

DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures. Trusses to be spaced at 16.0" OC maximum

Trusses to be spaced at 16.0" OC maximum



7.36.042

Scale = 25"/Ft.



ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 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/TP11 SEC. 2.

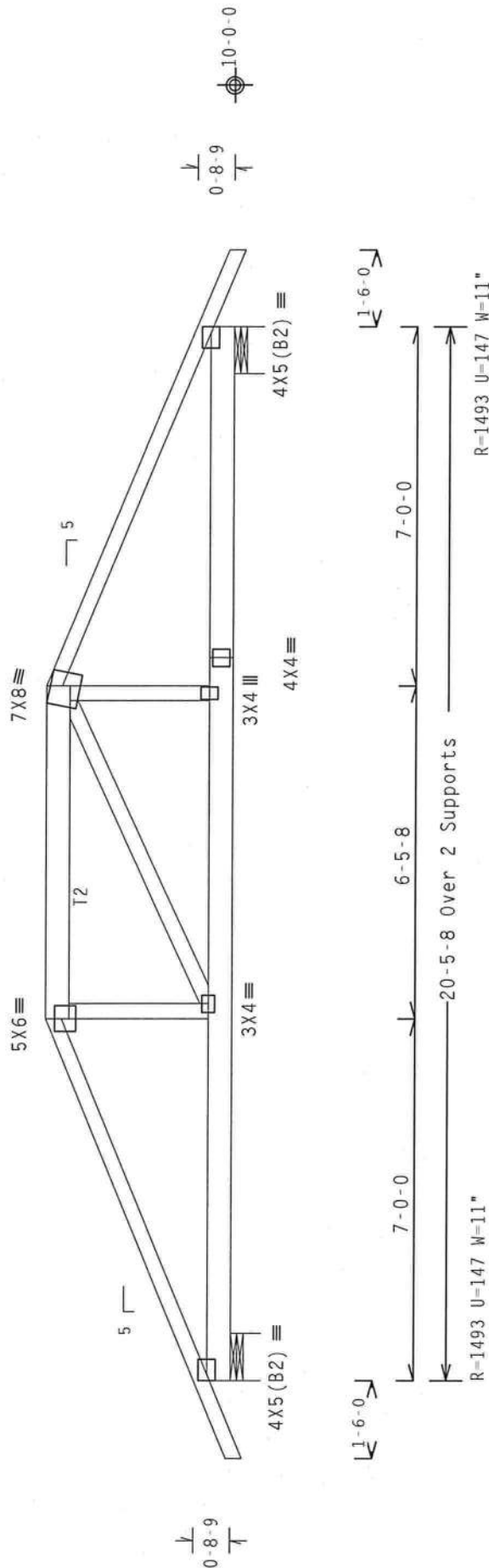
|          |       |     |        |             |          |
|----------|-------|-----|--------|-------------|----------|
| TC LL    | 20.0  | PSF | REF    | R8228-      | 26131    |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228   | 07338007 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF       | *        |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 64277       |          |
| DUR.FAC. | 1.25  |     | FROM   | AH          |          |
| SPACING  | 16.0" |     | JREF-  | 1TCZ8228Z01 |          |

| Bot | chord | 2x6                          | SP             | #2 |
|-----|-------|------------------------------|----------------|----|
|     | webs  | 2x4 <td>SP <td>#3</td> </td> | SP <td>#3</td> | #3 |

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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



Design Crit: TPI-2002(STD)/FBC

Scale = .3125" / Ft.

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

 $Cq/RT=1.00(1.25)/0(0)$  7.36.04

PLT TYP. Wave

**\*WARNING\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND TRACING. REFER TO BCSI BUILDING COMPONENT SUPPLY, INC. (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND HCN TRUSS COMPANY, 1000 ENTERPRISE LANE, MADISON, AL 35719, FOR SAFETY PRACTICES REGARDING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

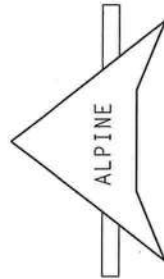
**\*\*IMPORTANT\*\***FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH SECTION 0511 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONTRACTOR PLATES ARE MADE PER 260.19(1) AND 260.19(2) OF NATIONAL SPEC. BY AFAPA) AND TPI. ITW BCG HAS NO LIABILITY FOR THESE TRUSSES UNLESS OTHERWISE LOCATED ON THIS DESIGN. FOR ALL OTHERS, APPLY TO THE MANUFACTURER OF THE TRUSS FOR THE CORRECT CONNECTION DETAIL. THERE MAY BE DIFFERENCES IN THE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, FOR ALL OTHERS, APPLY TO THE MANUFACTURER OF THE TRUSS FOR THE CORRECT CONNECTION DETAIL.

IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A-3 OF TP11-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26132       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCU8R8228 07338087 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63638              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |



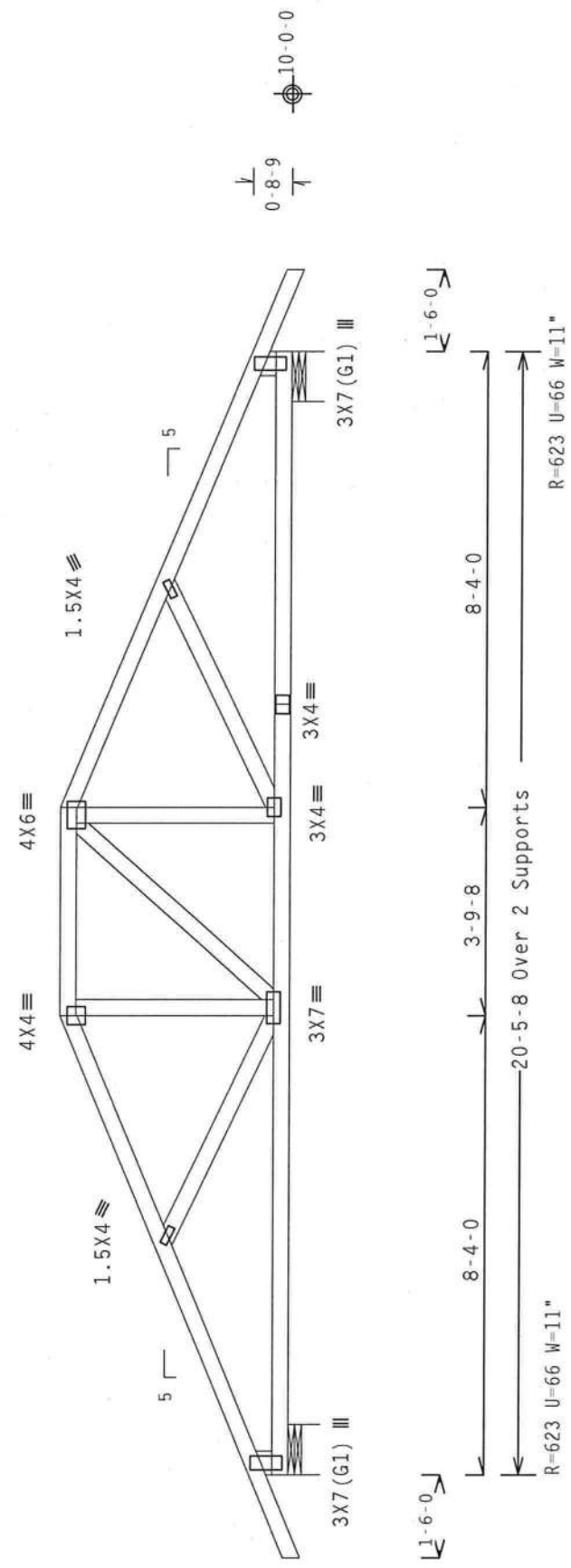
ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 00270

FL Certificate of Authentication # 0370



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3::Rt Stubbed Wedge 2x4 SP #3:  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCpt(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Trusses to be spaced at 16.0" OC maximum.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
 $C_q/RT=1.00(1.25)/0(0)$  7.36.042

Scale = .3125"/Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26133       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338048 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63628              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |

**DOUGLAS FLEMING**  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

**ALPINE**

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Approval # 00000

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 270 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MICA (MODUL TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2019/1666 (W-11/SS/A) ASTM A653 GRADE 40/60 (IN. K/H-SS) GALV. STEEL. APPLY 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.

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

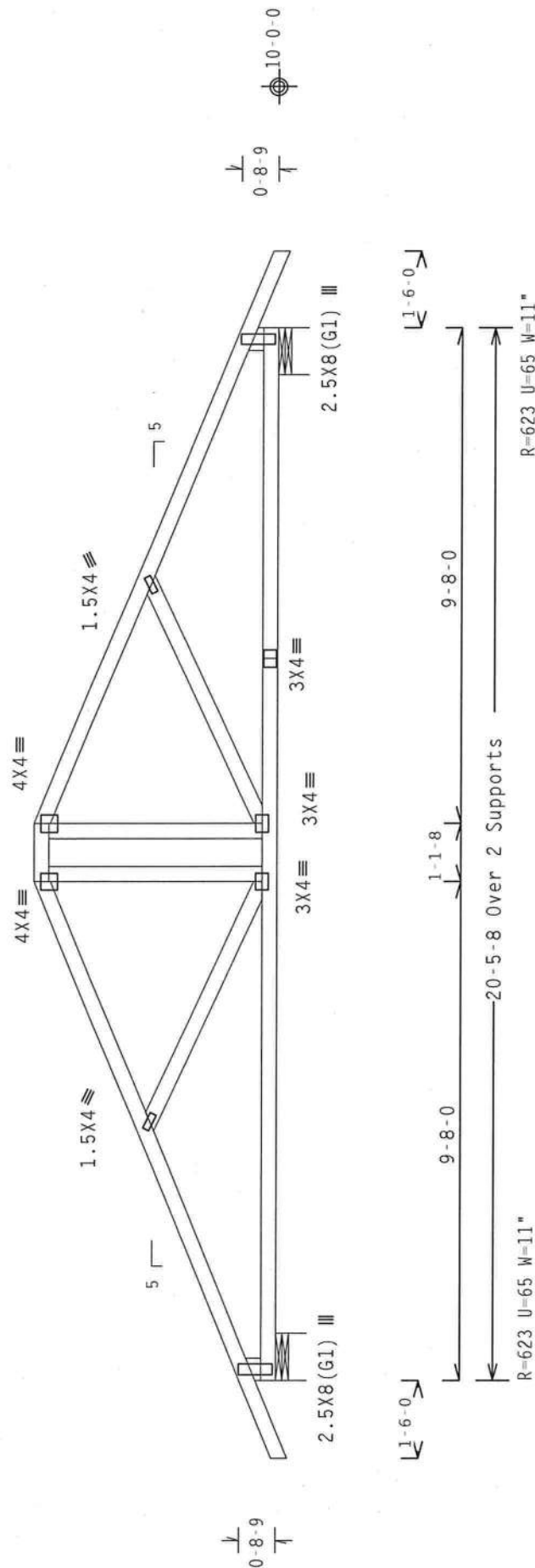
Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Rt Stubb'd Wedge 2x4 SP #3::Rt Stubb'd Wedge 2x4 SP #3:

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

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

Design Crit: TPI-2002(STD)/FBC  
C<sub>a</sub>/RT=1.00(1.25)/

PLT TYP. Wave

QTY:1

FL1-141-1-1R1-

Scale = 3125"/Ft.

**\*WARNING\*** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS' (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 530 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314, AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.) 530 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314, FOR THE LATEST INFORMATION. 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 BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & ERECTING OF TRUSSES.

CONNECTIONS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. ITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS. THE DESIGN SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 1) AISC 360-10 (STEEL STRUCTURAL DESIGN MANUALS), 2) AISC 358-10 (STEEL JOINTS), 3) AISC 308-10 (STEEL BOLTING), 4) AISC 341-10 (SEISMIC PROVISIONS), 5) AISC 343-10 (TENSION MEMBERS), 6) AISC 360-10 (COMPRESSION MEMBERS), 7) AISC 360-10 (WELDED JOINTS), 8) AISC 360-10 (WELDED CONNECTIONS), 9) AISC 360-10 (WELDED JOINTS), 10) AISC 360-10 (WELDED JOINTS), 11) AISC 360-10 (WELDED JOINTS), 12) AISC 360-10 (WELDED JOINTS), 13) AISC 360-10 (WELDED JOINTS), 14) AISC 360-10 (WELDED JOINTS), 15) AISC 360-10 (WELDED JOINTS), 16) AISC 360-10 (WELDED JOINTS), 17) AISC 360-10 (WELDED JOINTS), 18) AISC 360-10 (WELDED JOINTS), 19) AISC 360-10 (WELDED JOINTS), 20) AISC 360-10 (WELDED JOINTS), 21) AISC 360-10 (WELDED JOINTS), 22) AISC 360-10 (WELDED JOINTS), 23) AISC 360-10 (WELDED JOINTS), 24) AISC 360-10 (WELDED JOINTS), 25) AISC 360-10 (WELDED JOINTS), 26) AISC 360-10 (WELDED JOINTS), 27) AISC 360-10 (WELDED JOINTS), 28) AISC 360-10 (WELDED 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Haines City, FL 33844  
FL Certificate of Authorization # 0078

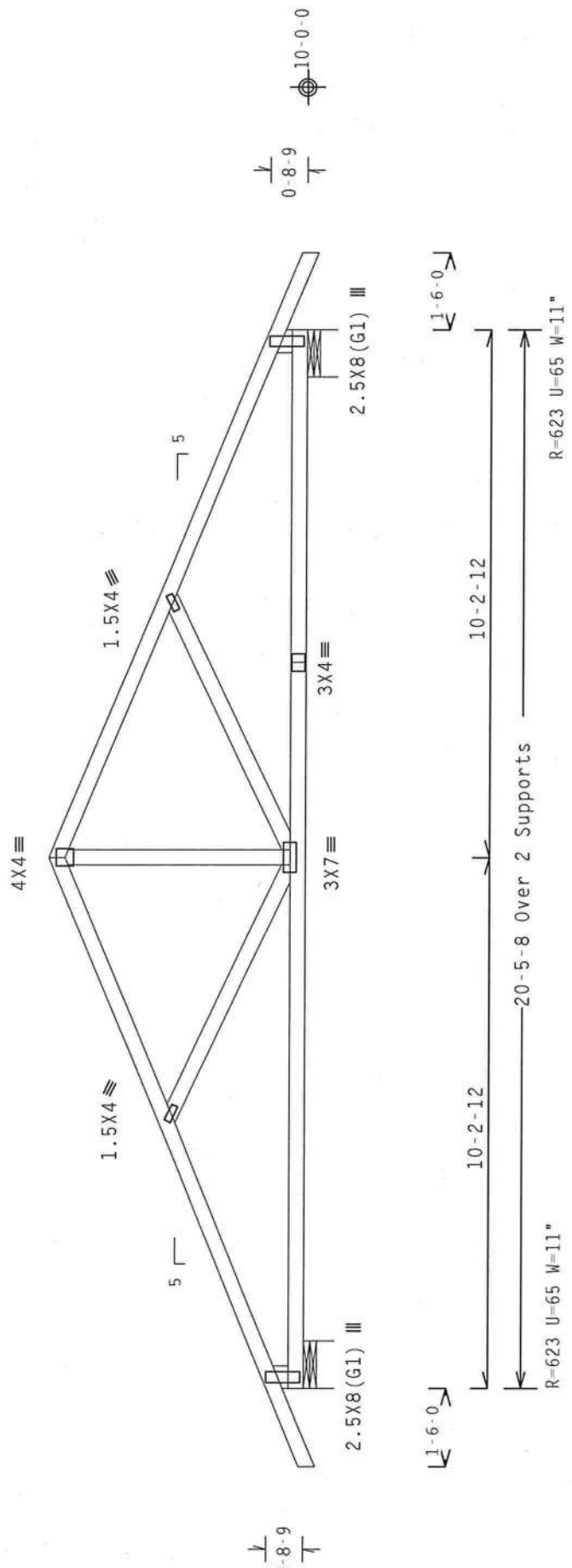
FL Certificate of Authorization # 0379

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:L: Stubbed Wedge 2x4 SP #3::Rt Stubbed Wedge 2x4 SP #3:  
Trusses to be spaced at 16.0" OC maximum.

110 mph wind, 15.00 ft mean htg, 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

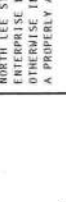
Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave



ALPINE

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

FL Certificate of Approval # 0000000000

Design CR-11: TPI-2002(SID)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.043

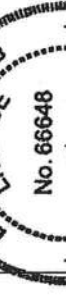
QTY:1 FL/-4/-/-R/- Scale =.3125"/Ft.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26135      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07          |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 0738050 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF             |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63643             |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 16.0"    | JREE-  | 1TCZ8228Z01       |

**\*\*WARNING\*\*** TROSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 NORTH 14TH AVENUE, SUITE 100, DENVER, CO 80202-3379) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE FOLLOWING INFORMATION 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. THE TRUSS IS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY ACPA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/166A (4-H/55/K) ASTM A653 GRADE 40/60 (4, K/H-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

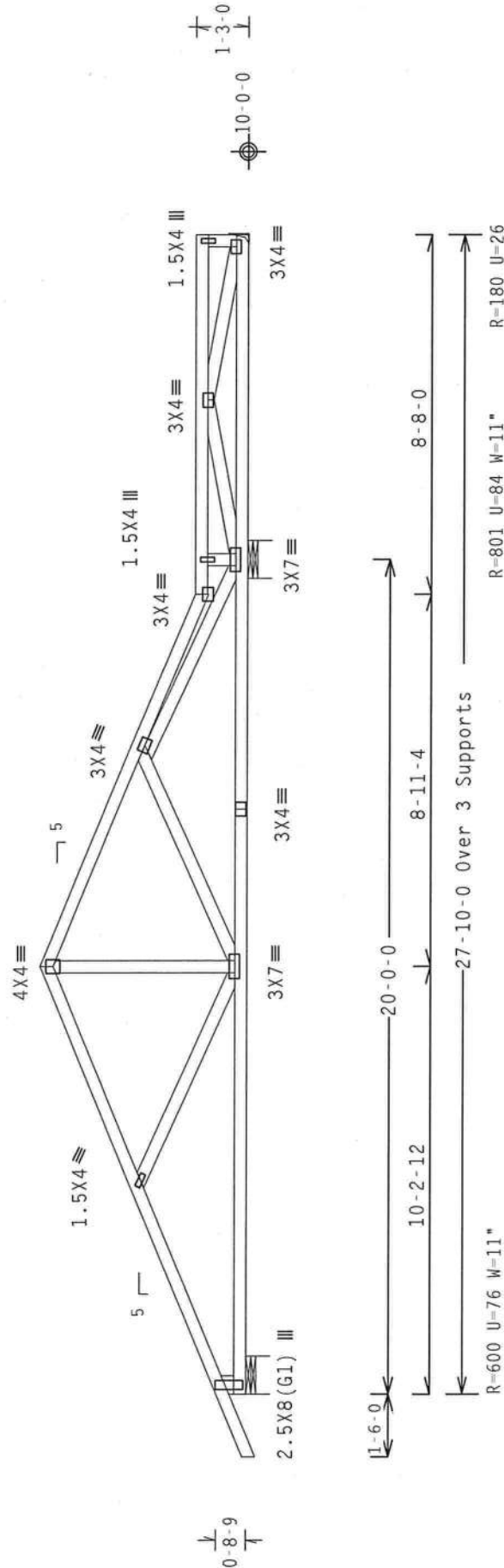


DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

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.  $I_w=1.00$   $G_{Cp}(+/-)=0.18$

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave



ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
Certificate of Registration # 0-020

Design Critic: IPI-2002(SIU)/FBC

Cq/RT=1.00(1.25)/0(0)      7.36.04      QTY:1

Scale = .25" / Ft.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                        |        |                        |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|--------|------------------------|--------|--------------------|-------|------|-----|--|--|--|-------|------|-----|--|--|--|-------|-----|-----|--|--|--|----------|------|-----|--|--|--|-----------|------|--|--|--|--|---------|-------|--|--|--|--|
| <p><b>**WARNING**</b> TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 BROTHER LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (4000 TRUSS COUNCIL OF AMERICA, 6200 WILSON AVENUE, SUITE 35719) 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.</p> <p><b>**IMPORTANT**</b> 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 &amp; BRACING OF TRUSSES.</p> <p>DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ACPA) AND TPI. 1TH BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/M/55/KS) 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 AMER A3 OF TPI-2002 SEC.2. A SEAL ON THIS DRAWING INDICATES THE 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.</p> | <div style="text-align: center;">  </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">TC LL</td> <td style="width: 15%;">20.0</td> <td style="width: 15%;">PSF</td> <td style="width: 15%;">FL / - / 4 / - / R / -</td> <td style="width: 15%;">QTY: 1</td> <td style="width: 20%;">Scale = .25" / Ft.</td> </tr> <tr> <td>TC DL</td> <td>10.0</td> <td>PSF</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BC DL</td> <td>10.0</td> <td>PSF</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BC LL</td> <td>0.0</td> <td>PSF</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOT. LD.</td> <td>40.0</td> <td>PSF</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DUR. FAC.</td> <td>1.25</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SPACING</td> <td>16.0"</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | TC LL | 20.0                   | PSF    | FL / - / 4 / - / R / - | QTY: 1 | Scale = .25" / Ft. | TC DL | 10.0 | PSF |  |  |  | BC DL | 10.0 | PSF |  |  |  | BC LL | 0.0 | PSF |  |  |  | TOT. LD. | 40.0 | PSF |  |  |  | DUR. FAC. | 1.25 |  |  |  |  | SPACING | 16.0" |  |  |  |  |
| TC LL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PSF   | FL / - / 4 / - / R / - | QTY: 1 | Scale = .25" / Ft.     |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |
| TC DL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PSF   |                        |        |                        |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |
| BC DL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PSF   |                        |        |                        |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |
| BC LL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PSF   |                        |        |                        |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |
| TOT. LD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PSF   |                        |        |                        |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |
| DUR. FAC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                        |        |                        |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |
| SPACING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16.0"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                        |        |                        |        |                    |       |      |     |  |  |  |       |      |     |  |  |  |       |     |     |  |  |  |          |      |     |  |  |  |           |      |  |  |  |  |         |       |  |  |  |  |

REF R8228- 26136

DATE 12/04/07

DRW HCUSR8228 07338051.

HC-ENG JB/DF

SEQN- 63941

FROM AH

JREF- 1TCZ8228Z01

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3:

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

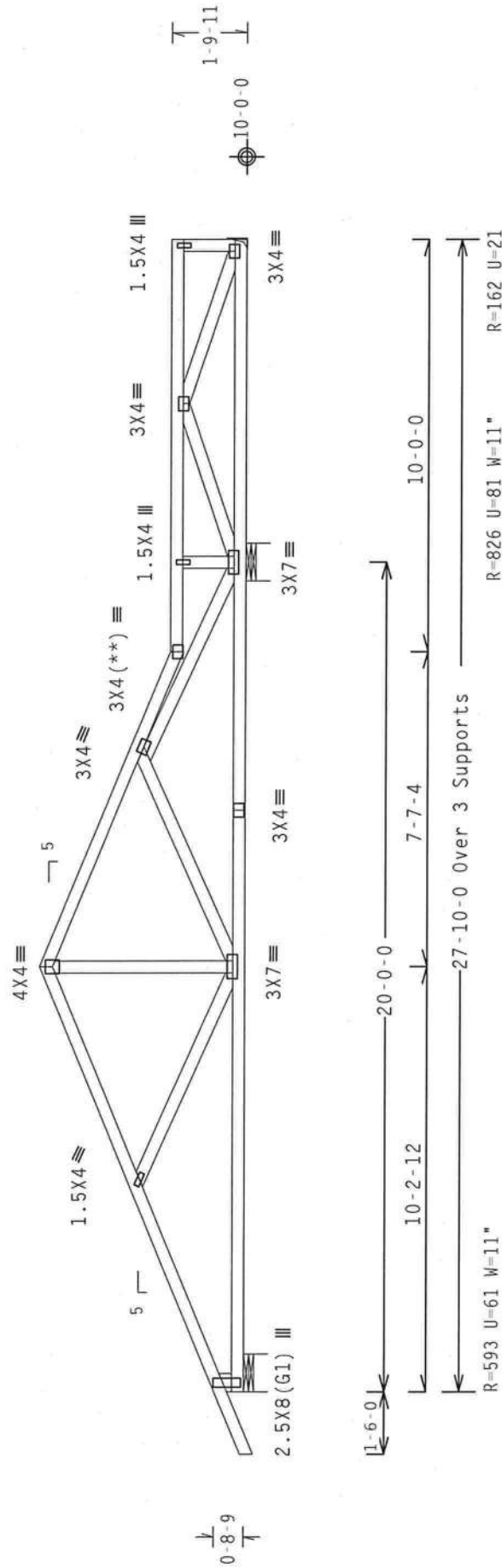
Trusses to be spaced at 16.0" OC maximum.

(\*\*) 1 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, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

7-36-042

El 1-141-1-1R1-

Scale = 25"/ft

**\*\*WARNING\*\*** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALWAYS FOLLOW ALL SAFETY INFORMATION. PUBLISHED BY TPI CRUSS PLATE INSTITUTE, 6308 NORTH LEE STREET, SUITE 100, CHICAGO, ILL. 60631-1790. © 1998 TPI CRUSS PLATE INSTITUTE. ALL RIGHTS RESERVED.  
NORTH LEE STREET, SUITE 100, CHICAGO, IL 60631-1790  
THERMATEE LABEL: HADISON, MI 52479 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS  
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING

[illegible]

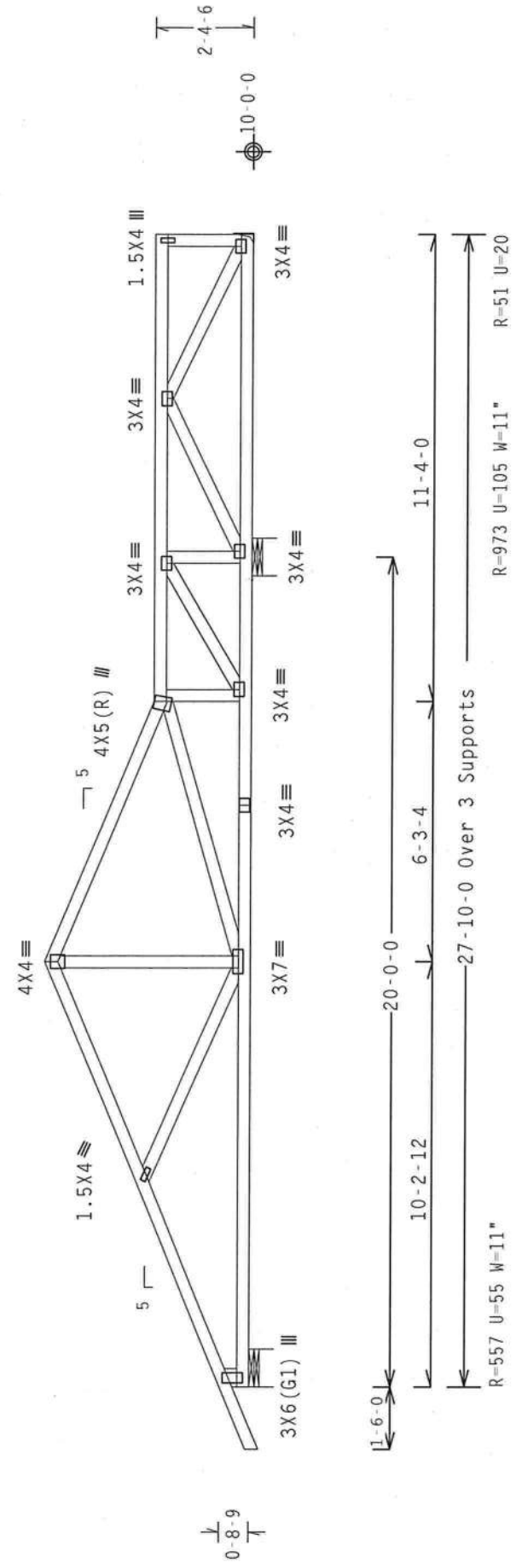
**ITW Building Components Group, Inc.**  
Haines City, FL 33844

FL Certificate of Appointment # 00070

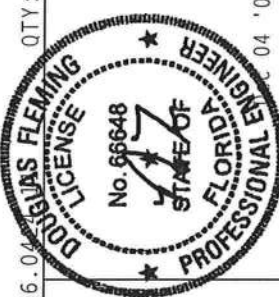


Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubby Wedge 2x4 SP #3:  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Trusses to be spaced at 16.0" OC maximum.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



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

|                                                                                     |          |              |                        |
|-------------------------------------------------------------------------------------|----------|--------------|------------------------|
| PLT TYP. Wave                                                                       | QTY:1    | FL/-4/-/-R/- | Scale = .25"/Ft.       |
|  | TC LL    | 20.0 PSF     | REF R8228- 26138       |
|                                                                                     | TC DL    | 10.0 PSF     | DATE 12/04/07          |
|                                                                                     | BC DL    | 10.0 PSF     | DRW HCUSR8228 07338053 |
|                                                                                     | BC LL    | 0.0 PSF      | HC-ENG JB/DF           |
|                                                                                     | TOT.LD.  | 40.0 PSF     | SEQN- 63949            |
|                                                                                     | DUR.FAC. | 1.25         | FROM AH                |
| SPACING 16.0"                                                                       |          |              | JREF- 1TCZ8228Z01      |

**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, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTGA (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 AFAPA) AND TPI. ITW BCG PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE INDICATED, ALL TRUSS MEMBERS SHALL BE GALV. STEEL, APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANSI A3 OF TPI-2002 SEC. 3.2. (2) SHALL BE PER ANSI A3 OF TPI-2002 SEC. 3.2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 2x4 SP #3:

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

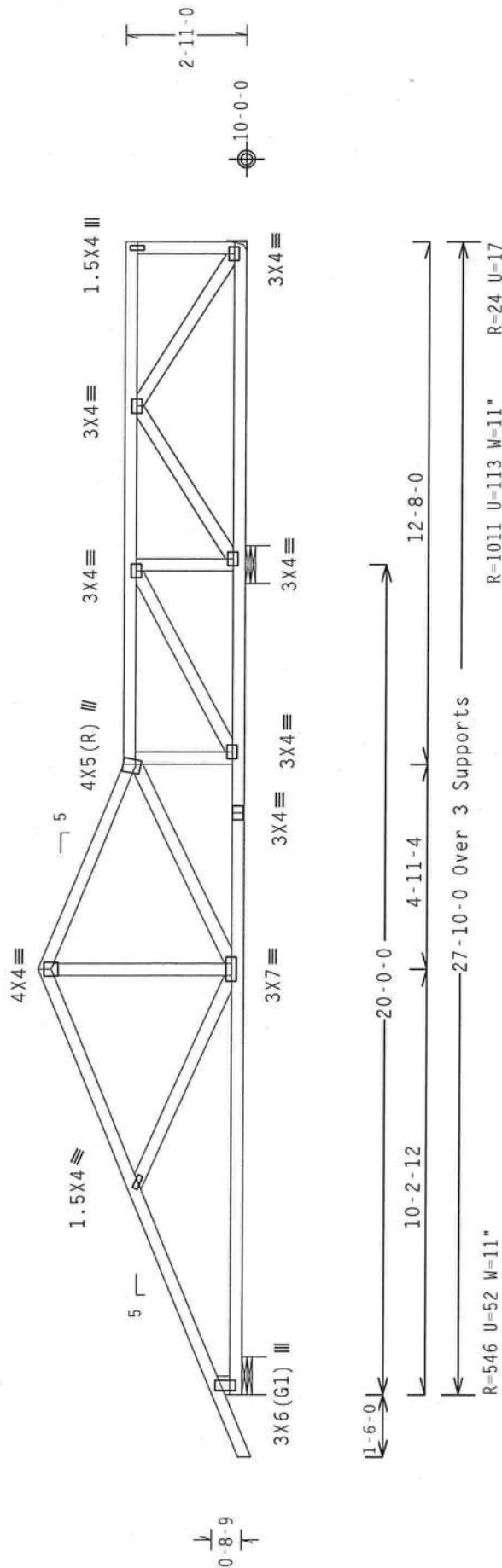
Trusses to be spaced at 16.0" OC maximum.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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



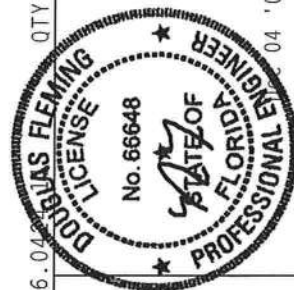
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

7 36 043

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

Scale = .25"/Ft.



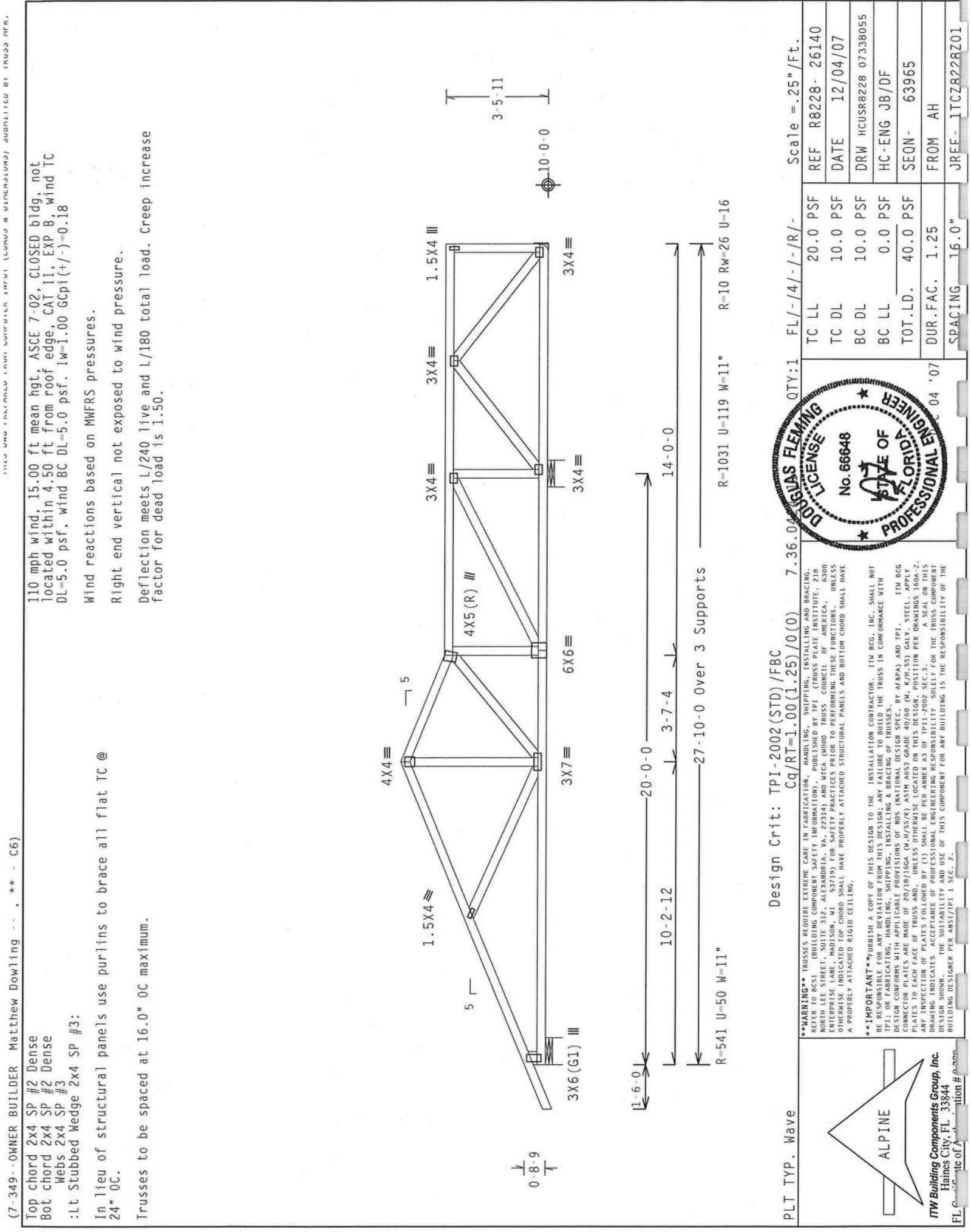
ALPINE

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (DOWLING CONSULTING SERVICES, INC.), 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 PROPERLY ATTACHED RIGID CEILING.

**\* IMPORTANT \***—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR—TIN 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, OR BRACING OF TRUSSES.

CONNECTION PLATES AND MADE TO SPECIFICATIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI-1. STEEL, TIN BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE SEAL OF THIS CONTRACT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANNEX A1 SEC.2.



(7-349--OWNER BUILDER Matthew Dowling --, \*\* - C6)

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubby Wedge 2x4 SP #3:

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

Trusses to be spaced at 16.0" OC maximum.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

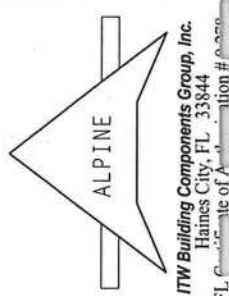
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Design Crit: TPI-2002 (STD) /FBC

|               |          |                            |                        |
|---------------|----------|----------------------------|------------------------|
| PLT TYP. Wave | QTY: 1   | FL / - / 4 / - / - / R / - | Scale = .25" / Ft.     |
|               | TC LL    | 20.0 PSF                   | REF R8228- 26140       |
|               | TC DL    | 10.0 PSF                   | DATE 12/04/07          |
|               | BC DL    | 10.0 PSF                   | DRW HCUSR8228 07338055 |
|               | BC LL    | 0.0 PSF                    | HC-ENG JB/DF           |
|               | TOT.LD.  | 40.0 PSF                   | SEQN- 63965            |
|               | DUR.FAC. | 1.25                       | FROM AH                |
|               | SPACING  | 16.0"                      | JREF- 1TCZ8228Z01      |

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCTA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (M. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. DRAWING 100A-2 INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubb'd Wedge 2x4 SP #3:

(A) Continuous lateral bracing equally spaced on member.

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

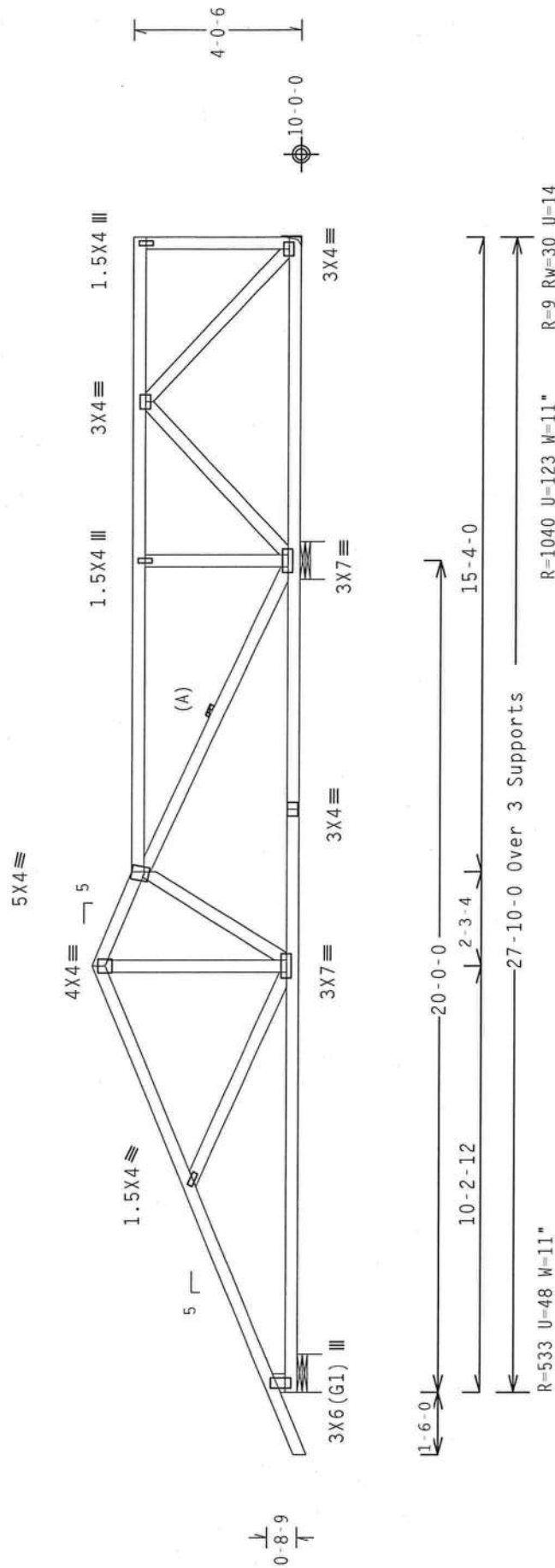
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

04389

OTY-1

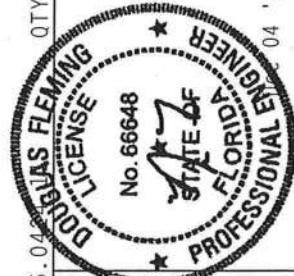
13/11/1911

Scale = .25"/Ft.

**WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES. BUILDING COMPONENT SAFETY. AMERICAN BRIDGE PLATE INSTITUTE, 2300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND AISC, 500 TRUSS COMPANY DRIVE, SUITE 100, FARMERSBURGH, NY 11737. TRUSS FABRICATOR MUST FOLLOW THE TRUSS MANUFACTURER'S INSTRUCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

**\*\*\*IMPORTANT\*\***TURNISH 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 THE TYPE OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

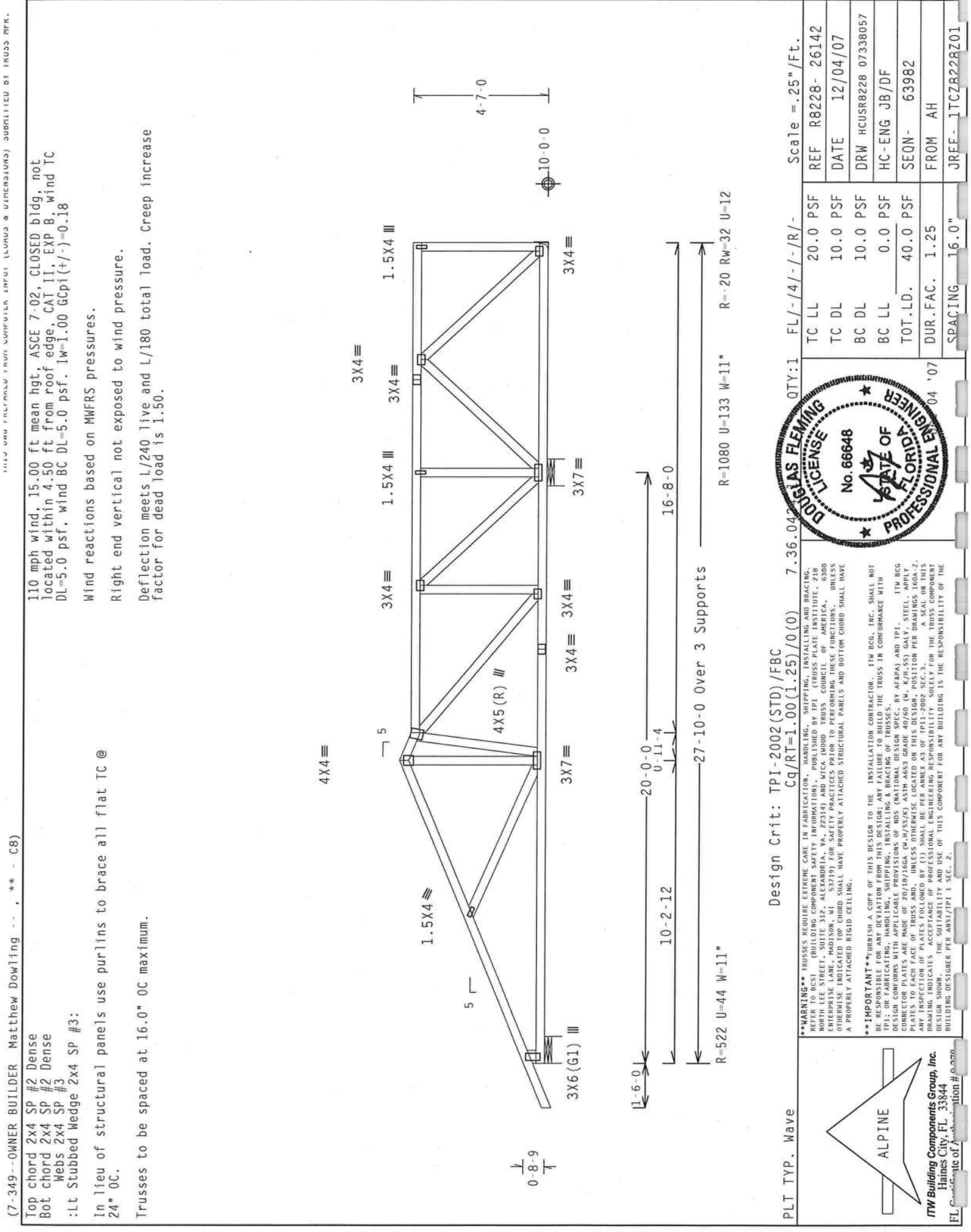
CONSTRUCTION WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CUSTOMERS MUST FOLLOW ALL APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPECIFIED PER DRAWINGS T60A-2. VERIFY THAT ALL DRIVING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS OF THE BUILDING 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-      | 26141    |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228   | 07338056 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF       |          |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 63974       |          |
| DUR.FAC. | 1.25  |     | FROM   | AH          |          |
| SPACING  | 16.0" |     | JREF-  | 1TCZ8228Z01 |          |

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authentication # 0070

FL Certificate of Authentication # 0370



(7-349--OWNER BUILDER Matthew Dowling --, \*\* - C8)

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubby Wedge 2x4 SP #3:  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Trusses to be spaced at 16.0" OC maximum.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCPI(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.042

PLT TYP. Wave

Scale = .25" / Ft.

REF R8228- 26142  
DATE 12/04/07  
DRW HCUSR8228 07338057  
HC-ENG JB/DF  
SEQN- 63982  
FROM AH  
JREF- 1TCZ8228Z01

QTY:1

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

TC LL 20.0 PSF  
TC DL 10.0 PSF  
BC DL 10.0 PSF  
BC LL 0.0 PSF  
TOT.LD. 40.0 PSF  
DUR.FAC. 1.25  
SPACING 16.0"

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 00000

FL Certificate of Registration # 00000

FL Certificate of Registration # 00000

FL Certificate of Registration # 00000

FL Certificate of Registration # 00000

FL Certificate of Registration # 00000

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FL Certificate of Registration # 00000



1110 mph wind, 15.00 ft mean ht, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC 0L=5.0 psf, wind BC DL=5.0 psf. lw=1.00 Gcpi(+/-)=0.18

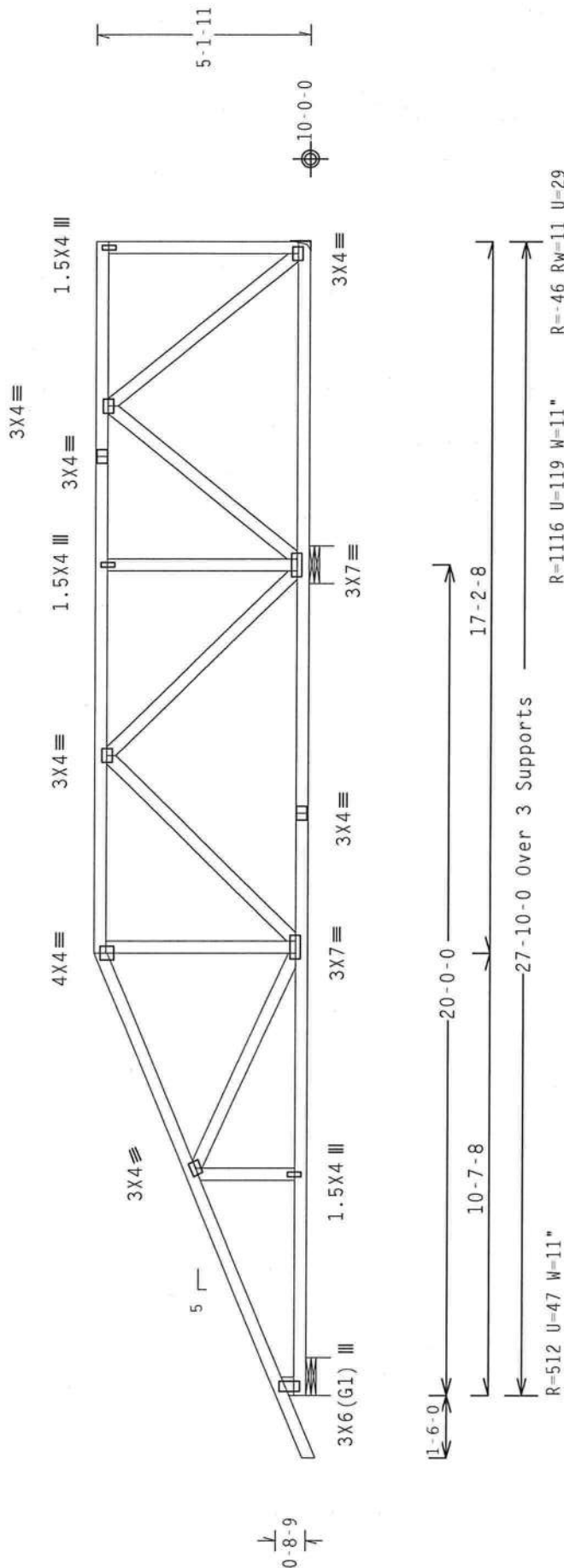
Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

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

Trusses to be spaced at 16.0" OC maximum.

Design Crit:  $\text{TPI-2002(STD)}/\text{FBC}$   
 $\text{Ca}/\text{RT}=1.00(1.25)/$ 

PLT TYP. Wave

0428

OTY·1 EI / - / 4 / - / - / B / -

Scale = .25"/Ft.

[illegible]

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26143      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07          |
| BC DL    | 10.0 PSF | DRW    | HCSR8228 07338058 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF             |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63992             |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01       |

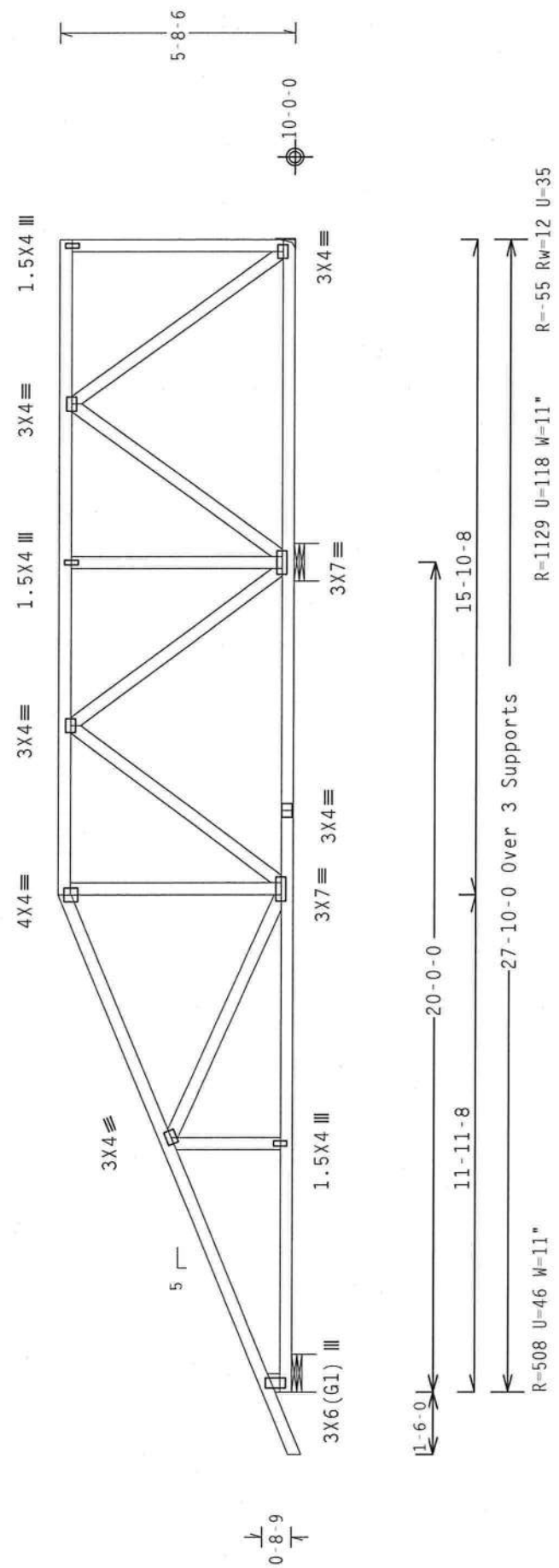


ALPINE

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

L Certificate of Appointment # 0370

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbbed wedge 2x4 SP #3:  
In lieu of structural panels use purlins to brace all flat TC @  
24" OC.  
Trusses to be spaced at 16.0" OC maximum.  
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCpi(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

Scale = .25"/Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228 - 26144      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338059 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63999              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

ALPINE

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



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 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 Iw=1.00 GCpi(+/-)=0.18

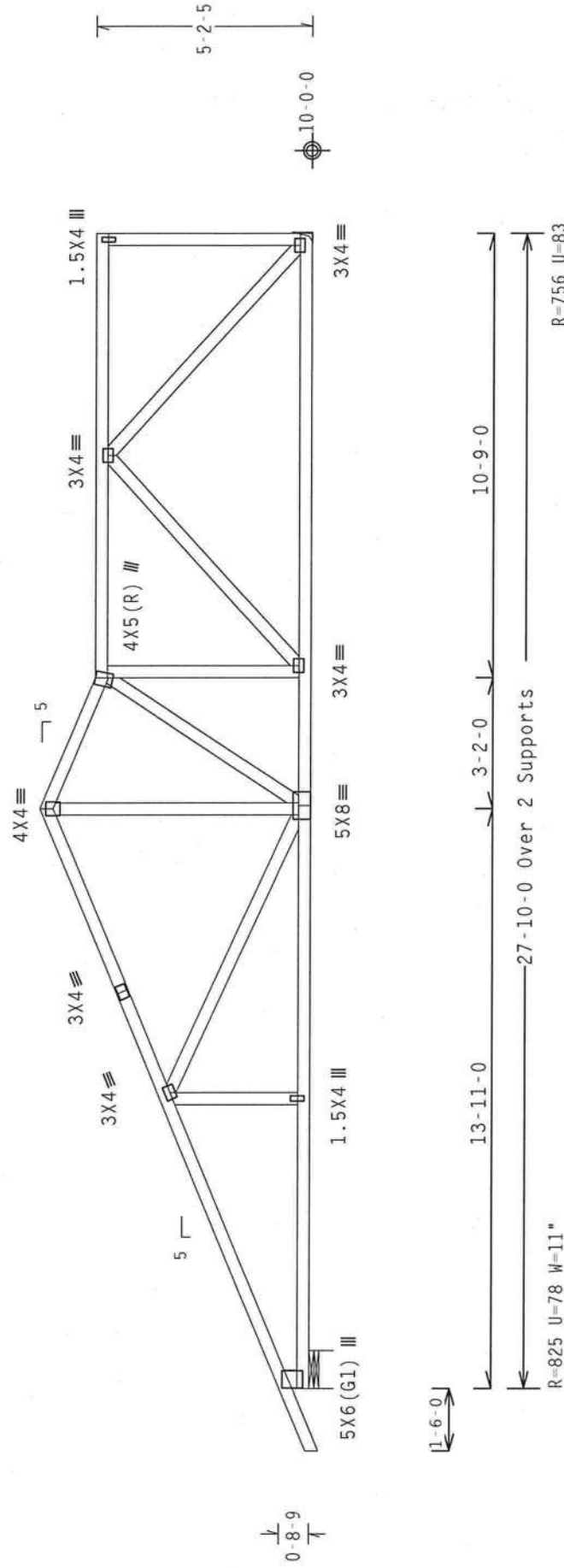
Wind reactions based on MWFRS pressures.

24" OC.

Right end vertical not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.

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



Design Crit: TPI-2002(STD)/FBC

$$Ca/RT=1.00(1.25)/0(0)$$

7.36.042

OTY:1

F11-141-1-1R/-

Scale = 25"/Ft

**WARNING:** THROTTLES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTHWEST TOOL & DIE CO. (FEDERAL SAFETY INFORMATION), 2100 CROSS PLATE INSTITUTE, 218 NORTH LEE STREET, ALHAMBRA, CALIF. 91803. ALL OTHERS ARE TO BE USED ONLY FOR THE PURPOSES OF PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, PORT COORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BE IN GOOD SHAPE HAVE PROPERLY ATTACHED BUILT-UP.

**\*\*IMPORTANT\*\*** TURN IN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR FOR ITS BEG., INC. SMALL, BUT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/P&A) AND TPI-1 STEEL TRUSS DESIGN MANUAL. TRUSSES SHALL BE DESIGNED TO SUPPORT ALL LOADS PER DRAWINGS 1606-2, 1607-2, 1608-2, 1609-2, 1610-2, 1611-2, 1612-2, 1613-2, 1614-2, 1615-2, 1616-2, 1617-2, 1618-2, 1619-2, 1620-2, 1621-2, 1622-2, 1623-2, 1624-2, 1625-2, 1626-2, 1627-2, 1628-2, 1629-2, 1630-2, 1631-2, 1632-2, 1633-2, 1634-2, 1635-2, 1636-2, 1637-2, 1638-2, 1639-2, 1640-2, 1641-2, 1642-2, 1643-2, 1644-2, 1645-2, 1646-2, 1647-2, 1648-2, 1649-2, 1650-2, 1651-2, 1652-2, 1653-2, 1654-2, 1655-2, 1656-2, 1657-2, 1658-2, 1659-2, 1660-2, 1661-2, 1662-2, 1663-2, 1664-2, 1665-2, 1666-2, 1667-2, 1668-2, 1669-2, 1670-2, 1671-2, 1672-2, 1673-2, 1674-2, 1675-2, 1676-2, 1677-2, 1678-2, 1679-2, 1680-2, 1681-2, 1682-2, 1683-2, 1684-2, 1685-2, 1686-2, 1687-2, 1688-2, 1689-2, 1690-2, 1691-2, 1692-2, 1693-2, 1694-2, 1695-2, 1696-2, 1697-2, 1698-2, 1699-2, 1700-2, 1701-2, 1702-2, 1703-2, 1704-2, 1705-2, 1706-2, 1707-2, 1708-2, 1709-2, 1710-2, 1711-2, 1712-2, 1713-2, 1714-2, 1715-2, 1716-2, 1717-2, 1718-2, 1719-2, 1720-2, 1721-2, 1722-2, 1723-2, 1724-2, 1725-2, 1726-2, 1727-2, 1728-2, 1729-2, 1730-2, 1731-2, 1732-2, 1733-2, 1734-2, 1735-2, 1736-2, 1737-2, 1738-2, 1739-2, 1740-2, 1741-2, 1742-2, 1743-2, 1744-2, 1745-2, 1746-2, 1747-2, 1748-2, 1749-2, 1750-2, 1751-2, 1752-2, 1753-2, 1754-2, 1755-2, 1756-2, 1757-2, 1758-2, 1759-2, 1760-2, 1761-2, 1762-2, 1763-2, 1764-2, 1765-2, 1766-2, 1767-2, 1768-2, 1769-2, 1770-2, 1771-2, 1772-2, 1773-2, 1774-2, 1775-2, 1776-2, 1777-2, 1778-2, 1779-2, 1780-2, 1781-2, 1782-2, 1783-2, 1784-2, 1785-2, 1786-2, 1787-2, 1788-2, 1789-2, 1790-2, 1791-2, 1792-2, 1793-2, 1794-2, 1795-2, 1796-2, 1797-2, 1798-2, 1799-2, 1800-2, 1801-2, 1802-2, 1803-2, 1804-2, 1805-2, 1806-2, 1807-2, 1808-2, 1809-2, 1810-2, 1811-2, 1812-2, 1813-2, 1814-2, 1815-2, 1816-2, 1817-2, 1818-2, 1819-2, 1820-2, 1821-2, 1822-2, 1823-2, 1824-2, 1825-2, 1826-2, 1827-2, 1828-2, 1829-2, 1830-2, 1831-2, 1832-2, 1833-2, 1834-2, 1835-2, 1836-2, 1837-2, 1838-2, 1839-2, 1840-2, 1841-2, 1842-2, 1843-2, 1844-2, 1845-2, 1846-2, 1847-2, 1848-2, 1849-2, 1850-2, 1851-2, 1852-2, 1853-2, 1854-2, 1855-2, 1856-2, 1857-2, 1858-2, 1859-2, 1860-2, 1861-2, 1862-2, 1863-2, 1864-2, 1865-2, 1866-2, 1867-2, 1868-2, 1869-2, 1870-2, 1871-2, 1872-2, 1873-2, 1874-2, 1875-2, 1876-2, 1877-2, 1878-2, 1879-2, 1880-2, 1881-2, 1882-2, 1883-2, 1884-2, 1885-2, 1886-2, 1887-2, 1888-2, 1889-2, 1890-2, 1891-2, 1892-2, 1893-2, 1894-2, 1895-2, 1896-2, 1897-2, 1898-2, 1899-2, 1900-2, 1901-2, 1902-2, 1903-2, 1904-2, 1905-2, 1906-2, 1907-2, 1908-2, 1909-2, 1910-2, 1911-2, 1912-2, 1913-2, 1914-2, 1915-2, 1916-2, 1917-2, 1918-2, 1919-2, 1920-2, 1921-2, 1922-2, 1923-2, 1924-2, 1925-2, 1926-2, 1927-2, 1928-2, 1929-2, 1930-2, 1931-2, 1932-2, 1933-2, 1934-2, 1935-2, 1936-2, 1937-2, 1938-2, 1939-2, 1940-2, 1941-2, 1942-2, 1943-2, 1944-2, 1945-2, 1946-2, 1947-2, 1948-2, 1949-2, 1950-2, 1951-2, 1952-2, 1953-2, 1954-2, 1955-2, 1956-2, 1957-2, 1958-2, 1959-2, 1960-2, 1961-2, 1962-2, 1963-2, 1964-2, 1965-2, 1966-2, 1967-2, 1968-2, 1969-2, 1970-2, 1971-2, 1972-2, 1973-2, 1974-2, 1975-2, 1976-2, 1977-2, 1978-2, 1979-2, 1980-2, 1981-2, 1982-2, 1983-2, 1984-2, 1985-2, 1986-2, 1987-2, 1988-2, 1989-2, 1990-2, 1991-2, 1992-2, 1993-2, 1994-2, 1995-2, 1996-2, 1997-2, 1998-2, 1999-2, 2000-2, 2001-2, 2002-2, 2003-2, 2004-2, 2005-2, 2006-2, 2007-2, 2008-2, 2009-2, 2010-2, 2011-2, 2012-2, 2013-2, 2014-2, 2015-2, 2016-2, 2017-2, 2018-2, 2019-2, 2020-2, 2021-2, 2022-2, 2023-2, 2024-2, 2025-2, 2026-2, 2027-2, 2028-2, 2029-2, 2030-2, 2031-2, 2032-2, 2033-2, 2034-2, 2035-2, 2036-2, 2037-2, 2038-2, 2039-2, 2040-2, 2041-2, 2042-2, 2043-2, 2044-2, 2045-2, 2046-2, 2047-2, 2048-2, 2049-2, 2050-2, 2051-2, 2052-2, 2053-2, 2054-2, 2055-2, 2056-2, 2057-2, 2058-2, 2059-2, 2060-2, 2061-2, 2062-2, 2063-2, 2064-2, 2065-2, 2066-2, 2067-2, 2068-2, 2069-2, 2070-2, 2071-2, 2072-2, 2073-2, 2074-2, 2075-2, 2076-2, 2077-2, 2078-2, 2079-2, 2080-2, 2081-2, 2082-2, 2083-2, 2084-2, 2085-2, 2086-2, 2087-2, 2088-2, 2089-2, 2090-2, 2091-2, 2092-2, 2093-2, 2094-2, 2095-2, 2096-2, 2097-2, 2098-2, 2099-2, 2100-2,



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

James City, FL 33844  
El Certificate of Acknowledgment # 0370

|          |       |
|----------|-------|
| DUR.FAC. | 1.25  |
| SPACING  | 16.0" |

04 '07

IS  
NT

ANNEX A3 OF TP11-2002 SEC.3.  
RING RESPONSIBILITY SOLELY FOR

FOLLOWED BY (1) SHALL  
ICE OF PROFESSIONAL

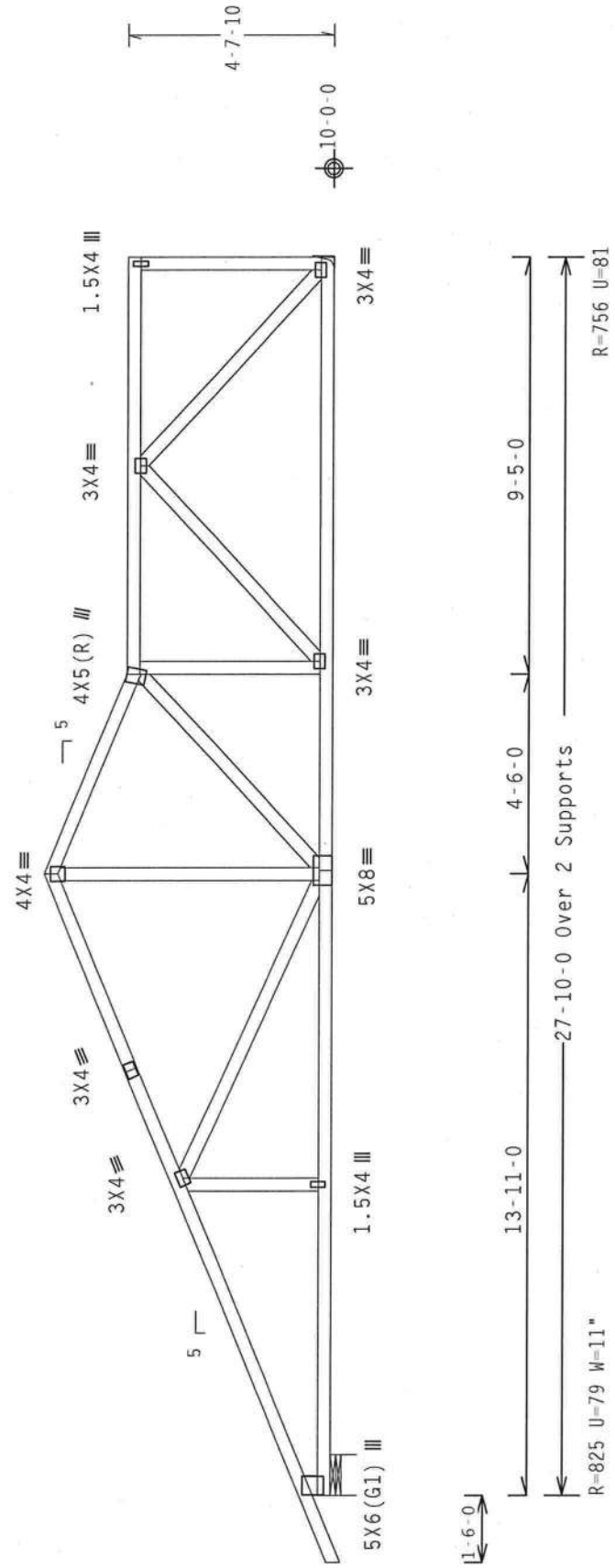
ANY INSPECTION OF P  
DRAWING INDICATES

**ITW Building Components Group, Inc.**

**ITW Building**

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubby Wedge 2x4 SP #3:  
In lieu of structural panels use purlins to brace all flat TC @  
24" OC.  
Trusses to be spaced at 16.0" OC maximum.

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  
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.042

Scale = .25"/Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228 - 26147      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338062 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN   | 64027              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF   | 1TCZ8228Z01        |

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 00000

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

04 '07

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/166A (4-H/SS/A) ASTM A653 GRADE 40/60 (4, K/ZN-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO FACE. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING. NO OTHER SEAL OR SIGNATURE FOR THE TRUSS COMPONENT DESIGNER SHALL BE USED. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbed Wedge 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

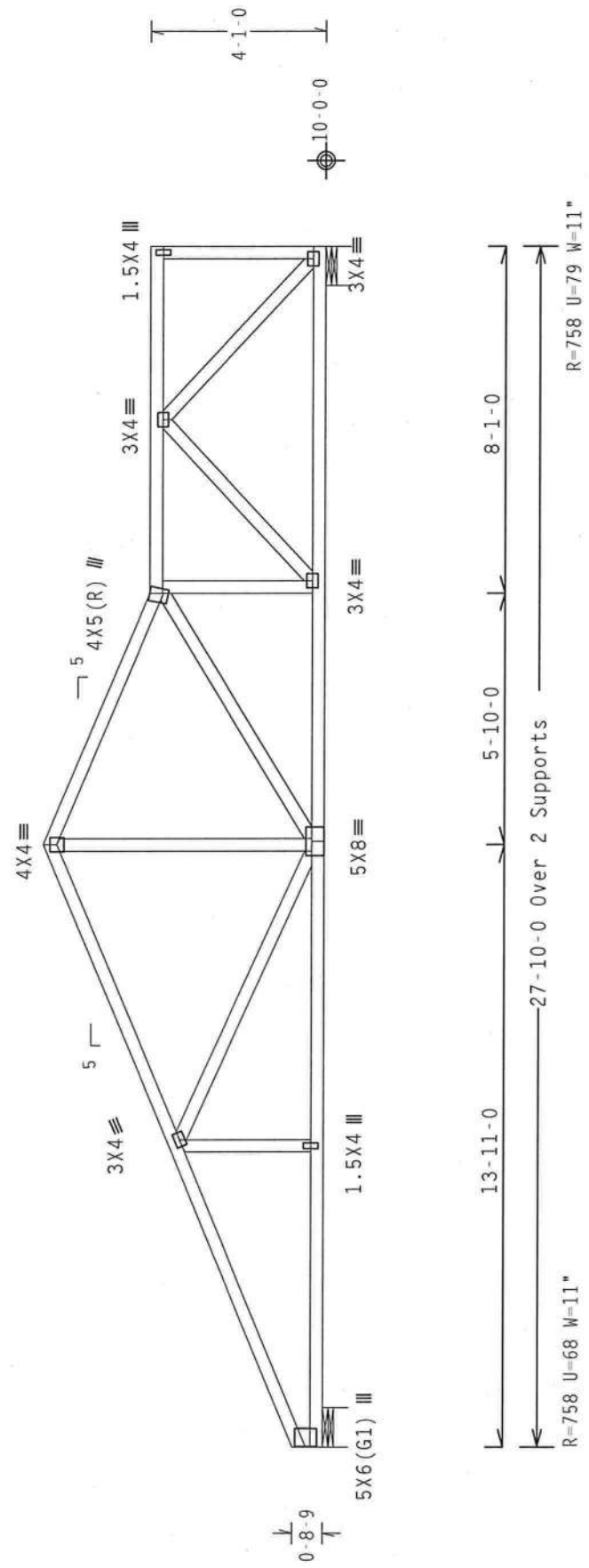
Wind reactions based on MWFRS pressures.

Illustrated structural panels use putlins to brace all flat l.c.  
24" OC.

Right end vertical not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.

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



R=758 U=68 W=11"

R=758 U=79 W=11"

Design Crit: TPI-2002(STD)/FBC

7.36.042

Scale = .25"/ft.

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

QTY:1

STAS H.F.

7.36.042

$$0/0(0)$$

1.00(1.25)

 $Cq/RT=$ 

...the ...

re

- TYP. Wa

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT 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.

◁



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0070



1

1

SEC. 2.

NUMBER PER ANSI/TPI

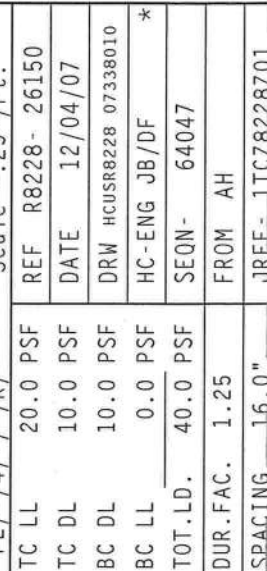
BUILDING DESI

Registration # 0370

Certificate of Appointment



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





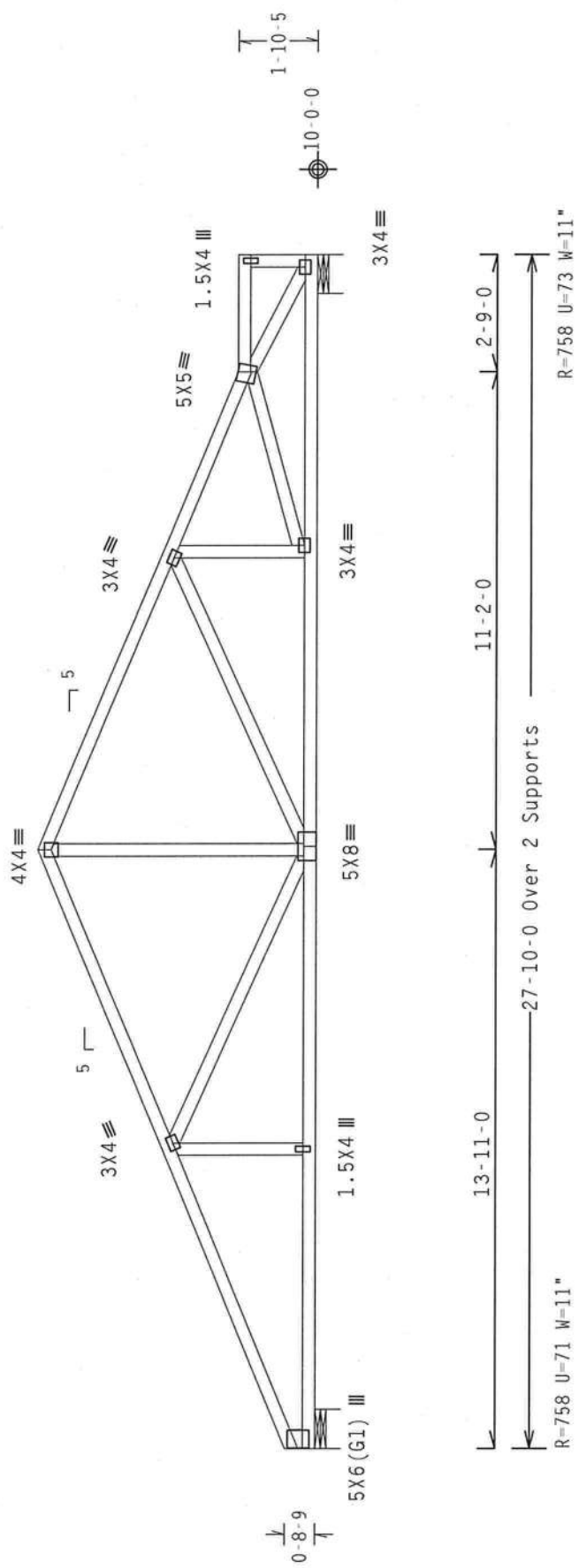
(7-349--OWNER BUILDER Matthew Dowling -- \*\* - C18)

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubby Wedge 2x4 SP #3:

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpf(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Trusses to be spaced at 16.0" OC maximum.



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

PLT TVP. Wave



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 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 AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (A-N/SS/A) ASTM A653 GRADE 40/60 (N, K/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION OF THE TRUSS. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE DESIGN OF THE TRUSS. THE SOLE RESPONSIBILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

**ALPINE**

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

|          |                            |                        |
|----------|----------------------------|------------------------|
| QTY: 1   | FL / - / 4 / - / - / R / - | Scale = .25" / Ft.     |
| TC LL    | 20.0 PSF                   | REF R8228- 26152       |
| TC DL    | 10.0 PSF                   | DATE 12/04/07          |
| BC DL    | 10.0 PSF                   | DRW HCUSR8228 07338012 |
| BC LL    | 0.0 PSF                    | HC-ENG JB/DF *         |
| TOT.LD.  | 40.0 PSF                   | SEQN- 64068            |
| DUR.FAC. | 1.25                       | FROM AH                |
| SPACING  | 16.0"                      | JREF- 1TCZ8228Z01      |



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Lt Stubby wedge 2x4 SP #3:

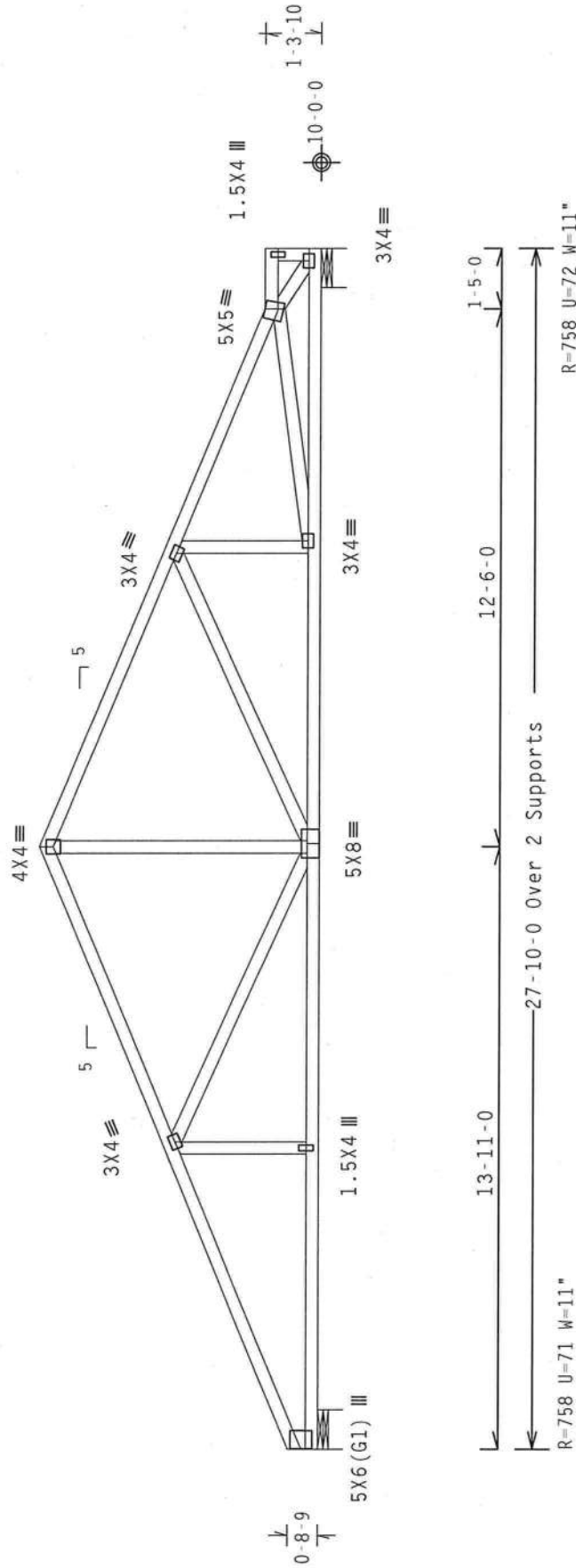
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

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

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

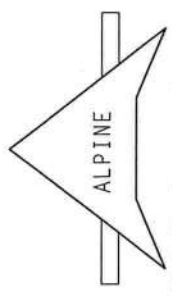


Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.0



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MTCA (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; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/160A (4-H/SS/2X) ASTM A563 GRADE 40/60 (4, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ADVISE THE TRUSS CONTRACTOR OF ANY CHANGES TO THE TRUSS DESIGN. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING. ITW BCG, INC. IS THE SOLE AGENT FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Architecture # 00000000

|               |          |                        |                        |
|---------------|----------|------------------------|------------------------|
| PLT TYP. Wave | QTY:1    | FL / - / 4 / - / R / - | Scale = .25" / Ft.     |
|               | TC LL    | 20.0 PSF               | REF R8228 - 26153      |
|               | TC DL    | 10.0 PSF               | DATE 12/04/07          |
|               | BC DL    | 10.0 PSF               | DRW HCUSR8228 07338013 |
|               | BC LL    | 0.0 PSF                | HC-ENG JB/DF *         |
|               | TOT.LD.  | 40.0 PSF               | SEQN - 64077           |
|               | DUR.FAC. | 1.25                   | FROM AH                |
|               | SPACING  | 16.0"                  | JREF - 1TCZ8228201     |

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

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

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART\_ENC.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 (+/-)=0.55

Wind reactions based on MWFRS pressures.

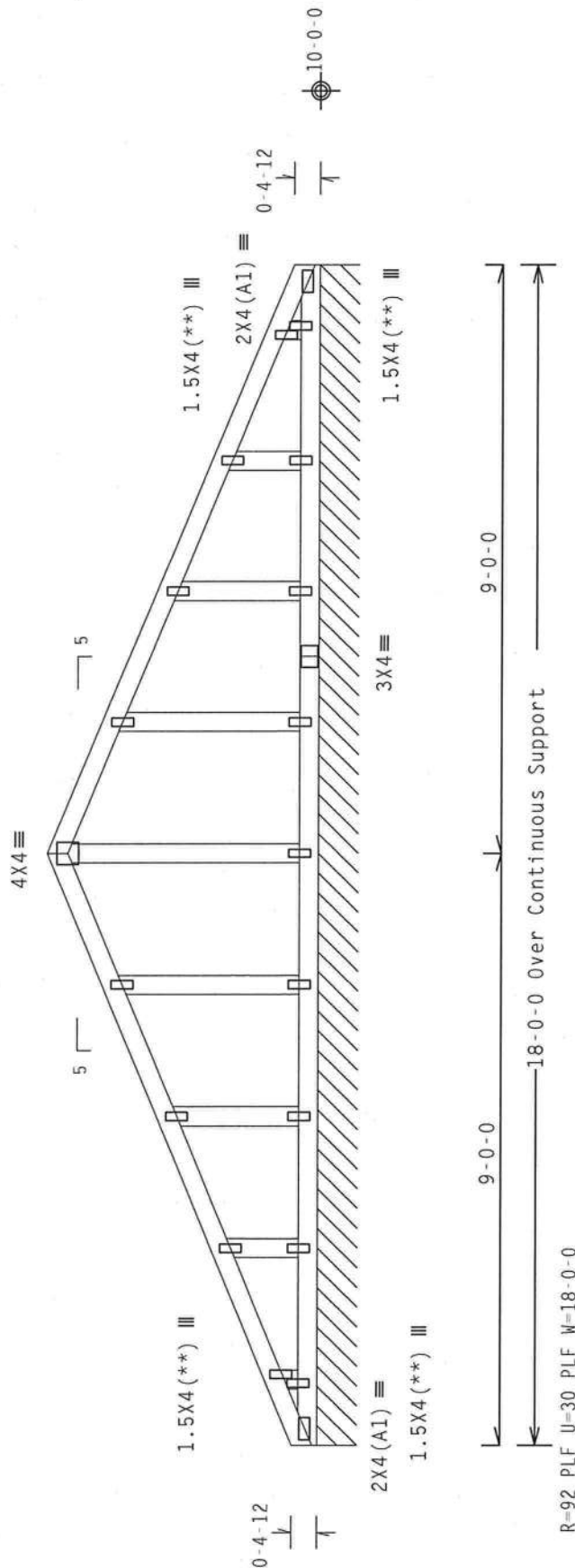
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Truss spaced at 16.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Trusses to be spaced at 16.0" OC maximum.

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.

SEE DRW HCUSR001 02086015 FOR GABLE DETAILS.



Note: All Plates Are 1.5X4 Except As Shown.

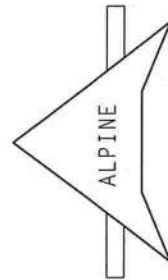
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

7-36-042

OTY·T EI / - / 4 / - / - / R / -

Scale = 375"/ft



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

**\*WARNING\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE ABOVE BESS' CHAIRING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEITCHFIELD AVE., SUITE 100, CHICAGO, ILL. 60607) THROUGH THE NATIONAL ASSOCIATION OF AMERICA, 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 BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

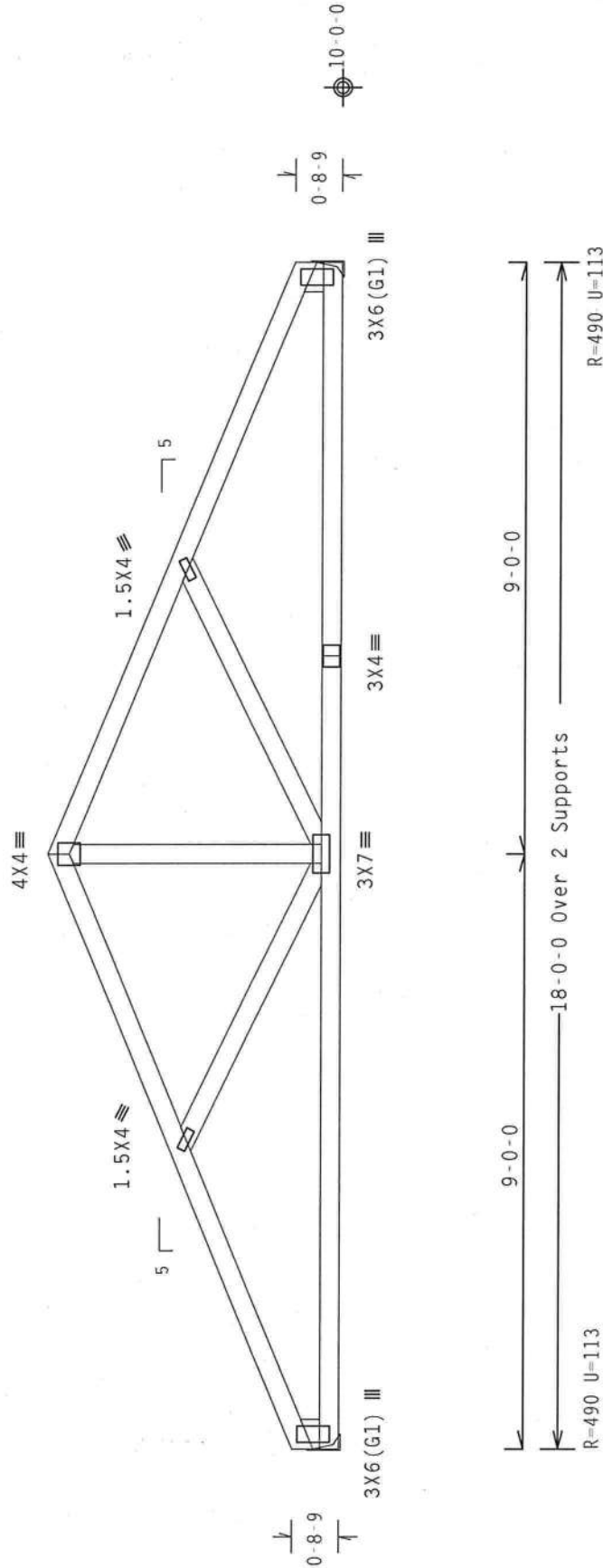
DESIGN CONFORMS WITH APPLICABLE REQUIREMENTS OF AISC (NATIONAL DESIGN SPEC., BY AREA) AND TPI. 17TH BCG  
CONNECTOR PLATES ARE MADE OF 2018/16GA (W 1/8"SS) ASTM A653 GRADE 40-60 (H, K/P-SS) GALV. STEEL. STEEL, GALV.  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160X-2.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE IN PER AMEX AS OF TP11-2002 SEC. 3,  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26154       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCU8R8228 07338088 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63722              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TC28228Z01        |

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Stubbbed Wedge 2x4 SP #3::Rt Stubbbed Wedge 2x4 SP #3:  
Trusses to be spaced at 16.0" OC maximum.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART-ENC. bldg,  
Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind  
BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.55$   
Wind reactions based on MWFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

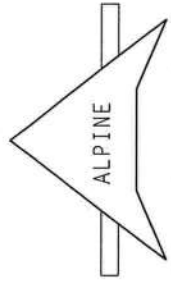


Design Crit: TPI-2002 (STD)/FBC  
 $C_q/RT=1.00(1.25)/0(0)$  7.36.042



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATING INSTITUTE), 6390 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6390 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 & 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 (4-H/SS/4) ASTM A653 GRADE 40/60 (4, K/M-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING NOTES: THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



PLT TYP. Wave

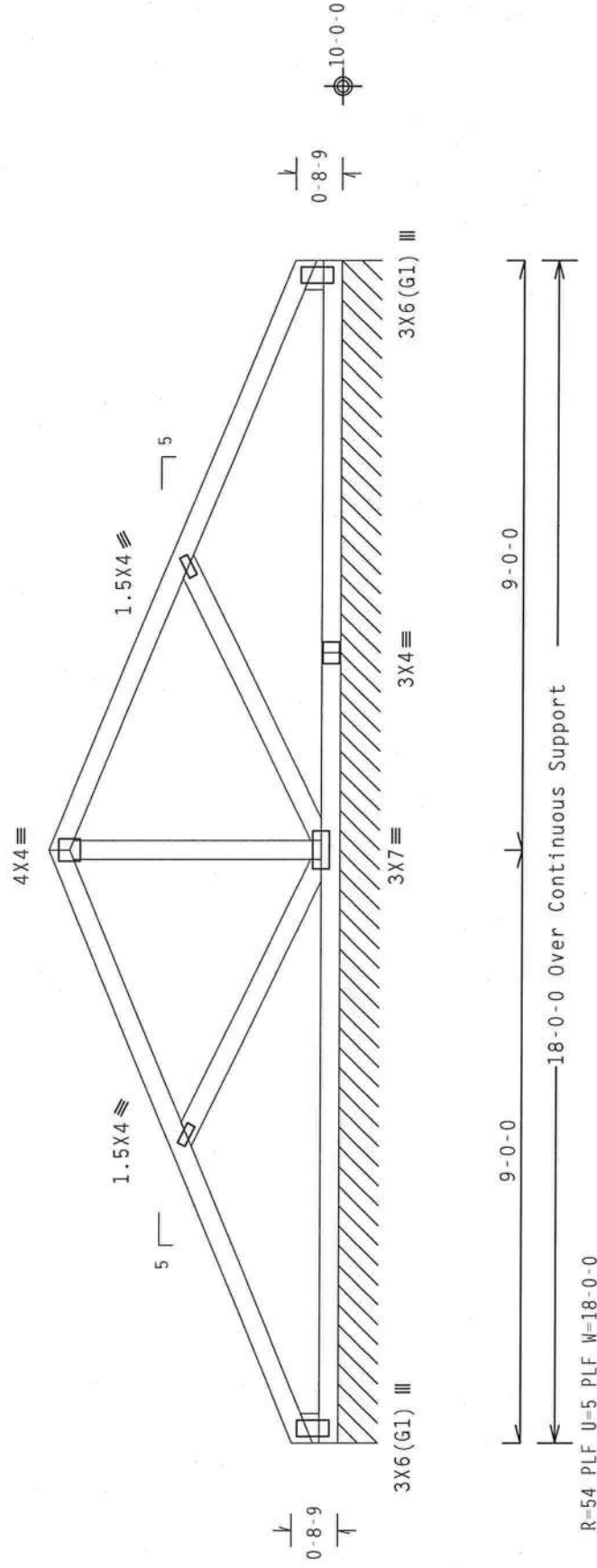
|          |                |                        |
|----------|----------------|------------------------|
| QTY:1    | FL/-/4/-/-/R/- | Scale = .375"/Ft.      |
| TC LL    | 20.0 PSF       | REF R8228- 26155       |
| TC DL    | 10.0 PSF       | DATE 12/04/07          |
| BC DL    | 10.0 PSF       | DRW HCUSR8228 07338063 |
| BC LL    | 0.0 PSF        | HC-ENG JB/DF           |
| TOT.LD.  | 40.0 PSF       | SEQN- 63715            |
| DUR.FAC. | 1.25           | FROM AH                |
| SPACING  | 16.0"          | JREF- 1TCZ8228Z01      |

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:LT Stubbed Wedge 2x4 SP #3::RT Stubbed Wedge 2x4 SP #3:  
Trusses to be spaced at 16.0" OC maximum.

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 MWFRS pressures.

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



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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION FOR ALL TRUSS MANUFACTURERS. TRUSS MANUFACTURERS: NORTH LEE STREET, SUITE 312, ANDOVER, MA 02614; ANDALUSIA, VA 22014; AND WICKI (WOOD TRUSS), COUNCIL BLUFFS, IOWA 52591. 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 BE RESPONSIBLE FOR ANY DETAILATIONS FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR SPECIFICATIONS WILL BE AT THE USER'S RISK. PROVIDE THE FOLLOWING INFORMATION TO THE USER:

DESIGN CONFORMS WITH APPLICATION PROVISIONS OF NATIONAL DESIGN SPECIFICATION.

CONNECTOR PLATES ARE MADE OF 70/10/16GA./A578/A579/ASTM A563 GRADE 40/60 (A/K/S) GALV. STEEL.

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 ABH# 43 OF TP11-2002 SEC.3.

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

THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANB1/TP11 SEC. 2.



| FL/-/4/-/-R/- |          | Scale = .375" /Ft.     |
|---------------|----------|------------------------|
| TC LL         | 20.0 PSF | REF R8228- 26156       |
| TC DL         | 10.0 PSF | DATE 12/04/07          |
| BC DL         | 10.0 PSF | DRW HCUSR8228 07338064 |
| BC LL         | 0.0 PSF  | HC-ENG JB/DF           |
| TOT.LD.       | 40.0 PSF | SEQN- 63734            |
| DUR.FAC.      | 1.25     | FROM AH                |
| SPACING       | 16.0"    | JREF- 1TC8228Z01       |

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FL Certificate of Approval # 00078

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

Max JT VERT DEFL: LL: 0.13" DL: 0.20" recommended camber 3/8"

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

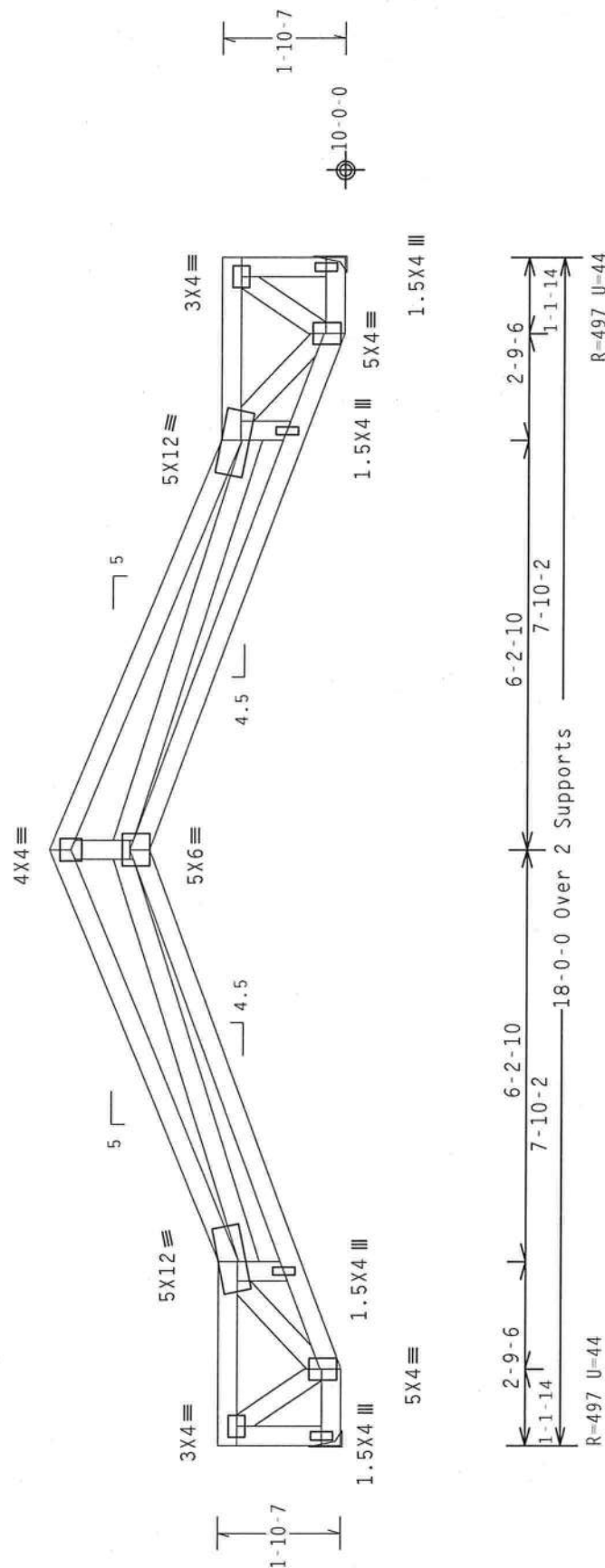
Provide for complete drainage of roof.

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

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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

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

PLT TYP. Wave

04

QTY: 1

E11-141-1-1R1-

Scale = 375" / Ft



ALPINE

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FL Certificate of Accreditation # 00370

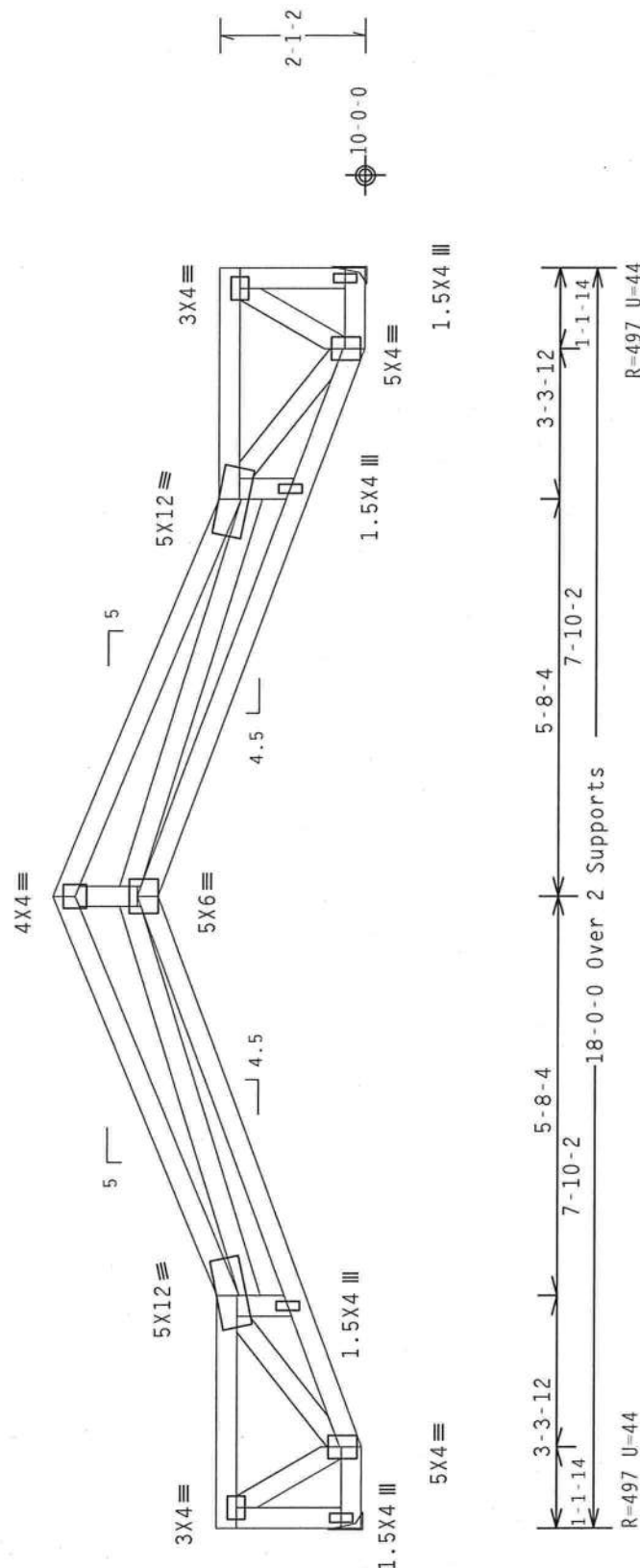
[illegible]

Haines City, FL 33844  
FL Certificate of Accreditation # 00300

|          |       |                   |
|----------|-------|-------------------|
| DUR.FAC. | 1.25  | FROM AH           |
| SPACING  | 16.0" | JREF- 1TCZ8228Z01 |



|                                                               |                                                                                                                                                                                   |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top 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 II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpt(+/-)=0.18 |
| Bot chord 2x4 SP #2 Dense                                     |                                                                                                                                                                                   |
| Webs 2x4 SP #3                                                |                                                                                                                                                                                   |
| End verticals not exposed to wind pressure.                   | Wind reactions based on MWFRS pressures.                                                                                                                                          |
| Max JT VERT DEFL: LL: 0.13" DL: 0.20" recommended camber 3/8" | In lieu of structural panels use purlins to brace all flat IC @ 24" OC.                                                                                                           |
| Trusses to be spaced at 16.0" OC maximum.                     | Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.                                                                                    |
| Provide for complete drainage of roof.                        |                                                                                                                                                                                   |

Design Crit: TPI-2002(STD)/FBC  
Ca/RT=1.00(1.25)/ $Cq/RT=1.00(1.25)/0(0)$  7.36.042

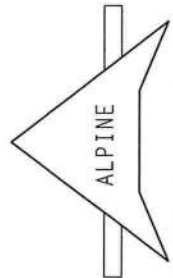
QTY:1 FL/-/4/-/-/R/-

Scale = 375" / Ft



\*WARNING\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE PROPERLY SUPPORTED AND SECURED TO PREVENT DEFLECTION. PUBLISHED BY: CHUOUS PLANT INSTITUTE, 218 NORTH LEE STREET, SUITE 112, ALPHARETTA, GA 30201. TEL: 770-962-8888. FAX: 770-962-8889. TRUSS COMPANY OF AMERICA, 6300 ENTERPRISE LANE, WOOD ST., AL 52719. TEL: 527-1911. FAX: 527-1912. TO PERFORM THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

|          |       |     |        |           |          |
|----------|-------|-----|--------|-----------|----------|
| TC LL    | 20.0  | PSF | REF    | R8228-    | 26158    |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07  |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228 | 07338066 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF     |          |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 63842     |          |
| DUR.FAC. | 1.25  |     | FROM   | AH        |          |
| SPACING  | 16.0" |     | JREF-  | 1TC8228   | 201      |



**ITW Building Components Group, Inc.**  
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FL Certificate of Approval # 00070



(7-349--OWNER BUILDER Matthew Dowling -- , \*\* - D6)

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 MWFRS pressures.

End verticals not exposed to wind pressure.

Calculated horizontal deflection is 0.11" due to live load and 0.18" due to dead load.

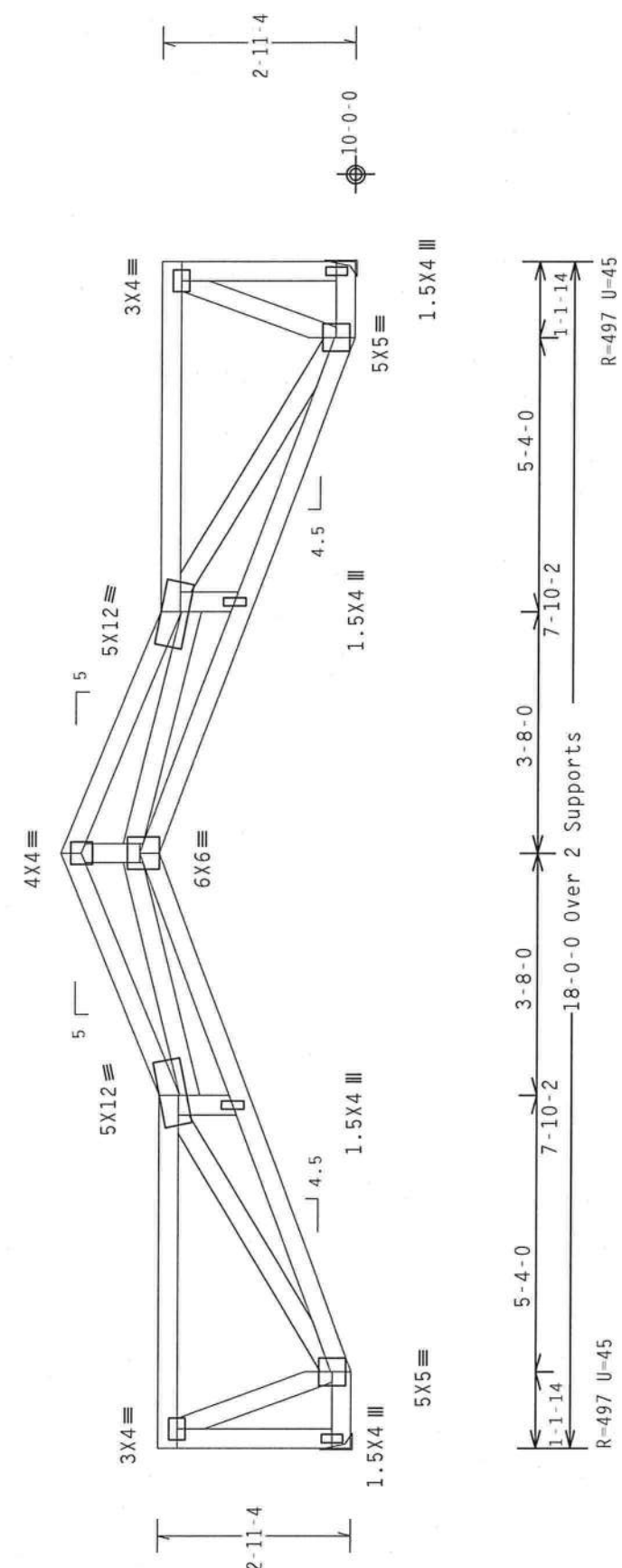
Trusses to be spaced at 16.0" OC maximum.

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

Max JT VERT DEFL: LL: 0.14" DL: 0.23" recommended camber 3/8"

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

Provide for complete drainage of roof.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.36.04

QTY:1

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

Scale = .375"/Ft.

REF R8228- 26160

DATE 12/04/07

DRW HCUSR8228 07338068

HC-ENG JB/DF

SEQN- 63856

FROM AH

JREF- 1TCZ8228Z01

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844

FL State of A... tion # 0000

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PROVIDED BY THE MANUFACTURER, FOR THE FOLLOWING: 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) AND WEA WOOD TRUSS COUNCIL OF AMERICA, 100 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (M-H/SS/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. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS BRACING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. ITW BCG USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DONALD FLEMING

License

No. 66648

STATE OF FLORIDA

PROFESSIONAL ENGINEER

04 '07



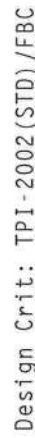
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf,  $I_w=1.00$  GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Max JT VERT DEFL: LL: 0.20" DL: 0.32" recommended camber 1 1/2"

(A) Continuous lateral bracing equally spaced on member.

Provide for complete drainage of roof.



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

Scale = .375"/Ft.



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Adoption # 0079



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

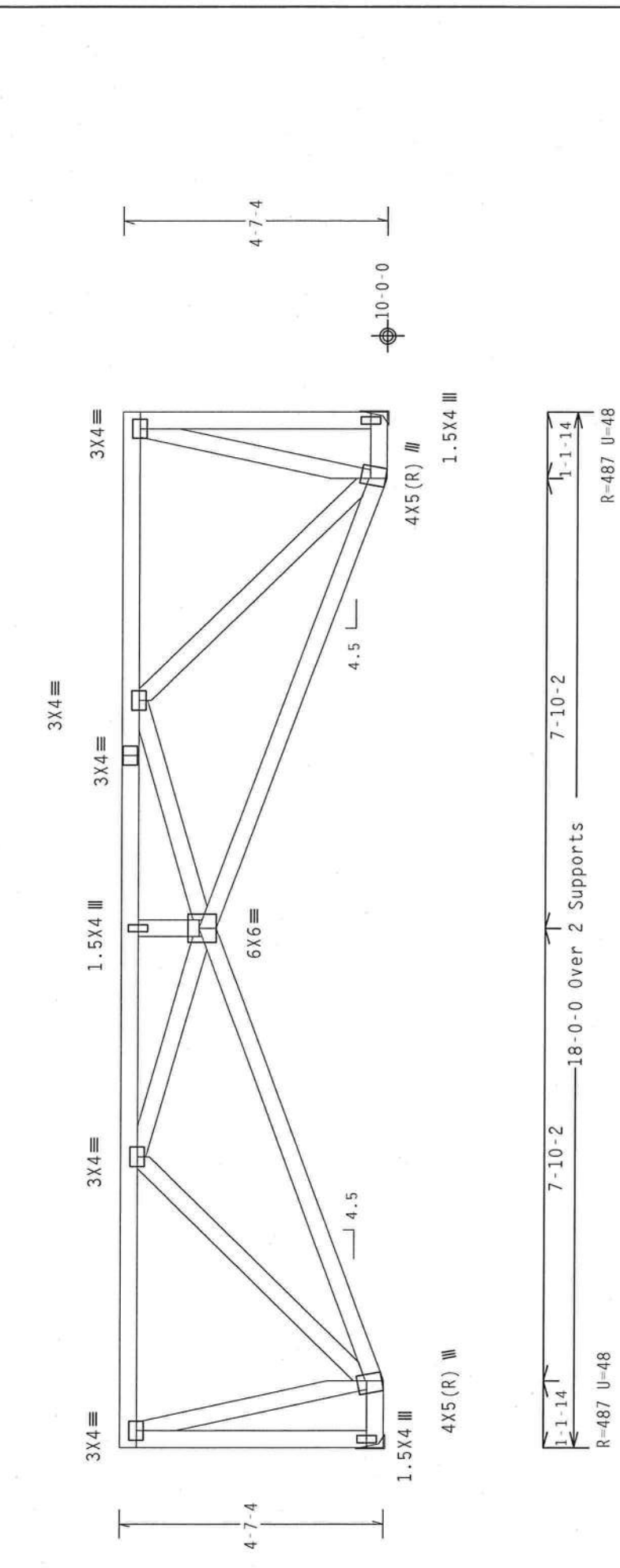
Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

Trusses to be spaced at 16.0" OC maximum.

Provide for complete drainage of roof.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.36.042

QTY:1

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

Scale = .375" / Ft.

**ALPINE**

ITW Building Components Group, Inc.

Haines City, FL 33844

FL State of A...tion #

**DOUGLAS FLEMING**

**LICENSE**

No. 66648

**STATE OF FLORIDA**

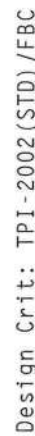
**PROFESSIONAL ENGINEER**

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26163       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338071 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.L.D. | 40.0 PSF | SEQN-  | 63878              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |

110 mph wind, 15.16 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 MWFRS pressures.

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



36-042

$$C_a/RT=1.00(1.25)/0(0)$$
$$\text{Scale} = 375''/\text{ft}$$
[illegible]

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. FOR THE SAFETY OF THE TRUSS, THE FOLLOWING INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 311, AUSTIN, TEXAS 78705, TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, WADSWORTH, MI 48093, OR THE TRUSS MANUFACTURER'S INSTRUCTIONS, SHALL BE FOLLOWED. 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. ITN BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING THE TRUSS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

[illegible]

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26164       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338072 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63885              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00370

James City, FL 33844  
FL Certificate of Appointment # 0070

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

End verticals not exposed to wind pressure.

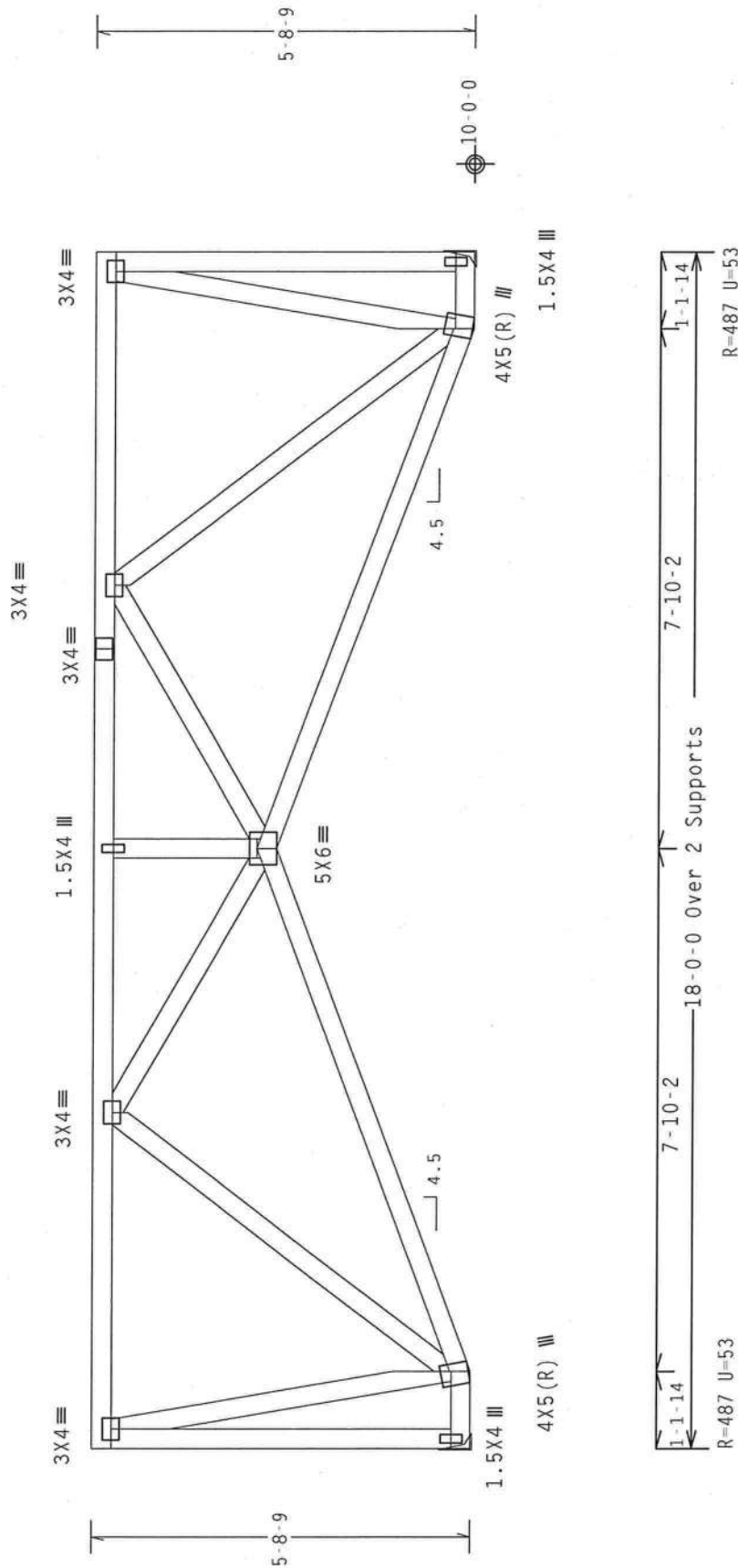
Trusses to be spaced at 16.0" OC maximum.

Provide for complete drainage of roof.

110 mph wind, 15.71 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 MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

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

7.36.042

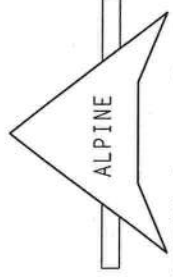
Scale = .375"/Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26165       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338073 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.L.D. | 40.0 PSF | SEQN-  | 63892              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |



**\*\*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, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/SS/K) ASTM A653 GRADE 40/60 (N, K/H-SS) GALV. STEEL. APPLY A SEAL ON THIS PLATE. THE SEAL SHALL BE AFFIXED AS OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING LIABILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0000

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

End verticals not exposed to wind pressure.

(A) 1x4 #3 or better "I" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5".min.)nails @ 6" OC.

Provide for complete drainage of roof.

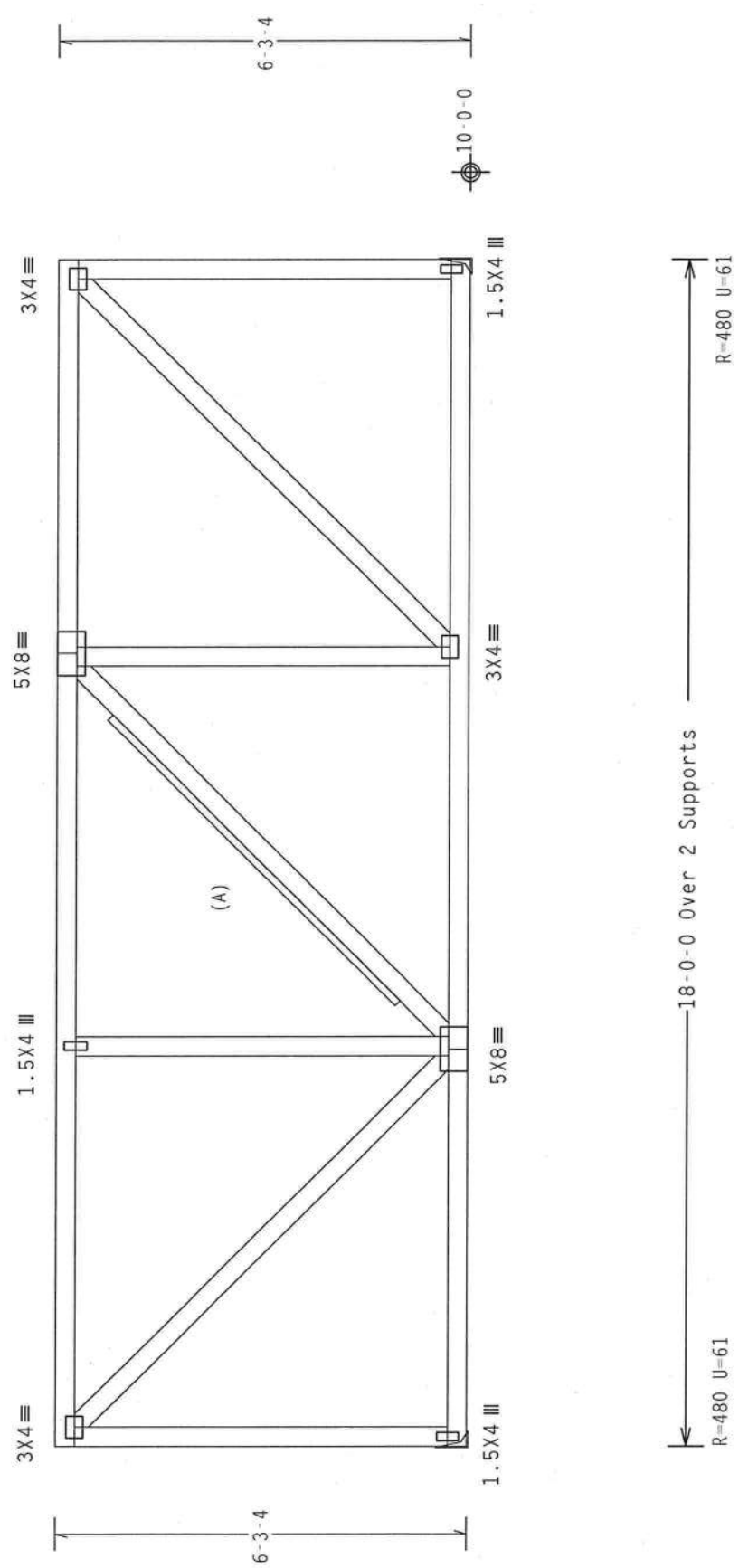
Truss must be installed as shown with top chord up.

110 mph wind, 16.27 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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



PLT TYP. Wave

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

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

7.36.042

Scale = .375"/ft.

QTY:1

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

TC LL 20.0 PSF  
TC DL 10.0 PSF  
BC DL 10.0 PSF  
BC LL 0.0 PSF  
TOT.LD. 40.0 PSF  
DUR.FAC. 1.25  
SPACING 16.0"

REF R8228- 26166  
DATE 12/04/07  
DRW HCUSR8228 07338074  
HC-ENG JB/DF  
SEQN- 63900  
FROM AH  
JREF- 1TCZ8228Z01

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 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 AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (U-N/SS/A) ASTM A653 GRADE 40/60 (H, 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 OF PLATES FOLLOWED BY (1) SHALL BE PER AMER A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE DESIGNER'S RESPONSIBILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 Dense  
Bot chord 2x8 SP SS  
Webs 2x4 SP #3

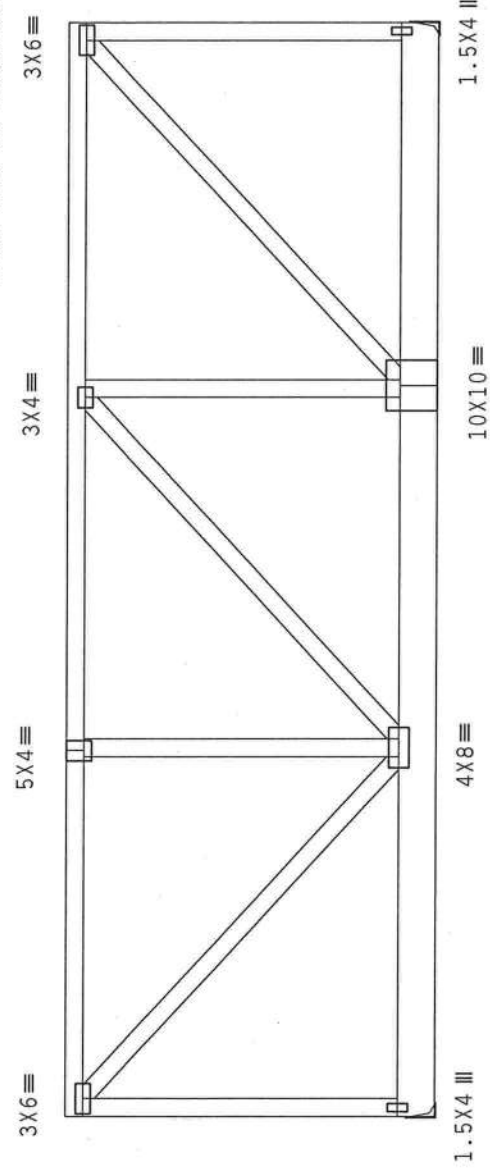
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 40 PLF at 0.00 to 40 PLF at 18.00  
BC - From 13 PLF at 0.00 to 13 PLF at 18.00  
BC - 350 LB Conc. Load at 1.02, 17.02  
BC - 352 LB Conc. Load at 2.35, 3.69, 5.02, 6.35, 7.69  
9.02, 10.35, 11.69, 13.02, 14.35, 15.69

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

The IC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.



18'-0-0 Over 2 Supports

R=2759 U=403

R=2769 U=405

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)  
Top Chord: 1 Row @12.00" O.C.  
Bot Chord: 1 Row @7.25" 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, 16.10 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.  $I_w=1.00$   $G_{CPI}(\pm)=0.18$

End verticals not exposed to wind pressure.

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

Truss must be installed as shown with top chord up.

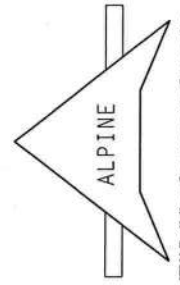
Design Crit: TPI-2002(STD)/FBC

|               |          |              |                        |
|---------------|----------|--------------|------------------------|
| PLT TYP. Wave | QTY:1    | FL/-/4/-/R/- | Scale = .3125"/Ft.     |
|               | TC LL    | 20.0 PSF     | REF R8228- 26167       |
|               | TC DL    | 10.0 PSF     | DATE 12/04/07          |
|               | BC DL    | 10.0 PSF     | DRW HCUSR8228 07338082 |
|               | BC LL    | 0.0 PSF      | HC-ENG JB/DF           |
|               | TOT.LD.  | 40.0 PSF     | SEQN- 64118            |
|               | DUR.FAC. | 1.25         | FROM AH                |
|               | SPACING  | 16.0"        | JREF- 1TCZ8228Z01      |



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 2TH NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND METCA (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 BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL BE FABRICATED AND SHIPPED TO THE INSTALLATION CONTRACTOR PLATES ARE MADE OF 6061-T6 ALUMINUM. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL BE FABRICATED AND SHIPPED TO THE INSTALLATION CONTRACTOR PLATES TO EACH FACE OF TRUSS AND; UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSTS FOR PER DR Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. POSTS FOR PER DR Z. 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.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Registration #00000



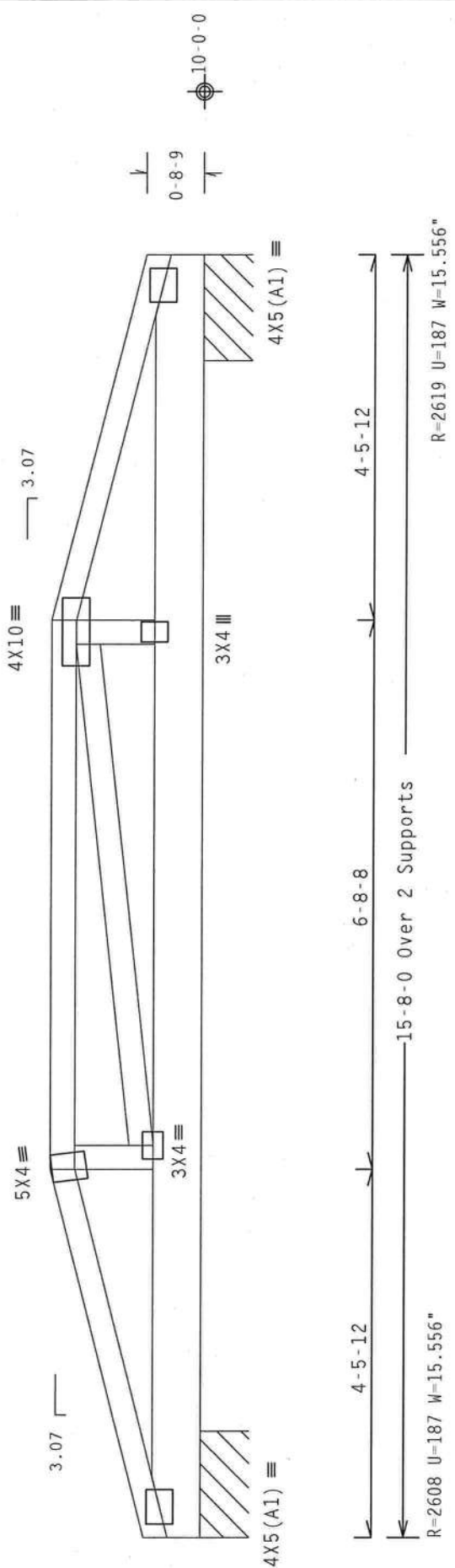
Top chord 2x4 SP #2 Dense  
Bot chord 2x8 SP SS  
Webs 2x4 SP #3

SPECIAL LOADS

- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
- TC - From 40 PLF at 0.00 to 40 PLF at 4.48
  - TC - From 40 PLF at 4.48 to 40 PLF at 11.19
  - TC - From 40 PLF at 11.19 to 40 PLF at 15.67
  - BC - From 13 PLF at 0.00 to 13 PLF at 15.67
  - TC - 25 LB Conc. Load at 1.54, 14.13
  - TC - 14 LB Conc. Load at 2.75, 12.92
  - TC - 38 LB Conc. Load at 3.96, 11.71
  - TC - 54 LB Conc. Load at 4.48, 11.19
  - TC - 41 LB Conc. Load at 5.17, 6.51, 7.83, 9.16, 10.49
  - BC - 352 LB Conc. Load at 1.19, 2.52, 3.85, 11.85, 13.19
  - BC - 14.52
  - BC - 5 LB Conc. Load at 1.54, 14.13
  - BC - 6 LB Conc. Load at 2.75, 12.92
  - BC - 14 LB Conc. Load at 3.96, 11.71
  - BC - 21 LB Conc. Load at 4.48, 11.19
  - BC - 367 LB Conc. Load at 5.19, 6.52, 7.85, 9.19, 10.52

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 7.25" 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, 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 MWFRS pressures.  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Trusses to be spaced at 16.0" OC maximum.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

|                                                                                                                       |          |          |              |                    |  |
|-----------------------------------------------------------------------------------------------------------------------|----------|----------|--------------|--------------------|--|
| PLT TYP. Wave                                                                                                         | QTY:1    |          | FL/-/4/-/R/- | Scale = 5"/Ft.     |  |
|                                                                                                                       | TC LL    | 20.0 PSF | REF          | R8228- 26168       |  |
|                                                                                                                       | TC DL    | 10.0 PSF | DATE         | 12/04/07           |  |
|                                                                                                                       | BC DL    | 10.0 PSF | DRW          | HCUSR8228 07338083 |  |
|                                                                                                                       | BC LL    | 0.0 PSF  | HC-ENG       | JB/DF              |  |
|                                                                                                                       | TOT.LD.  | 40.0 PSF | SEQN-        | 64110              |  |
| ALPINE<br>ITW Building Components Group, Inc.<br>Haines City, FL 33844<br>FL State of Florida Registration # 00000000 | DUR.FAC. | 1.25     | FROM         | AH                 |  |
|                                                                                                                       | SPACING  | 16.0"    | JREF-        | 1TCZ8228Z01        |  |
|                                                                                                                       |          |          |              |                    |  |



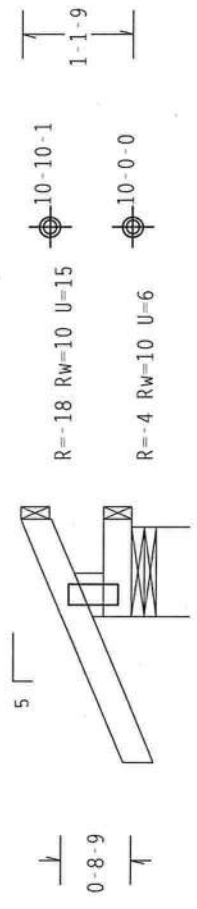
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WPCA (WOOD TRUSS COUNCIL OF AMERICA, 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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSS. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 3 SEC. 2.

ITW BCG  
17th BCG  
CONTRACTOR PLATES ARE MADE OF 20/18/16GA (R-H/SS/23) STEEL GRADE 40. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A, 2, 100B, 2, 100C, 2, 100D, 2, 100E, 2, 100F, 2, 100G, 2, 100H, 2, 100I, 2, 100J, 2, 100K, 2, 100L, 2, 100M, 2, 100N, 2, 100O, 2, 100P, 2, 100Q, 2, 100R, 2, 100S, 2, 100T, 2, 100U, 2, 100V, 2, 100W, 2, 100X, 2, 100Y, 2, 100Z, 2. A SEAL OR 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 3 SEC. 2.

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
:Lt Stubbed Wedge 2x4 SP #3:  
Trusses to be spaced at 16.0" OC maximum.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART-ENC. bldg.  
Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 Gcpi(+/-)=0.55  
Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

|               |       |          |                |                    |                 |  |
|---------------|-------|----------|----------------|--------------------|-----------------|--|
| PLT TYP. Wave | QTY:1 |          | FL/-/4/-/-/R/- |                    | Scale = .5"/Ft. |  |
|               | TC LL | 20.0 PSF | REF            | R8228- 26169       |                 |  |
|               | TC DL | 10.0 PSF | DATE           | 12/04/07           |                 |  |
|               | BC DL | 10.0 PSF | DRW            | HCUSR8228 07338075 |                 |  |
|               | BC LL | 0.0 PSF  | HC-ENG         | JB/DF              |                 |  |
| TOT.LD.       |       |          | 40.0 PSF       | SEQN-              | 63544           |  |
| DUR.FAC.      |       |          | 1.25           | FROM               | AH              |  |
| SPACING       |       |          | 16.0"          | JREF-              | 1TCZ8228Z01     |  |



**\*\*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), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48071) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

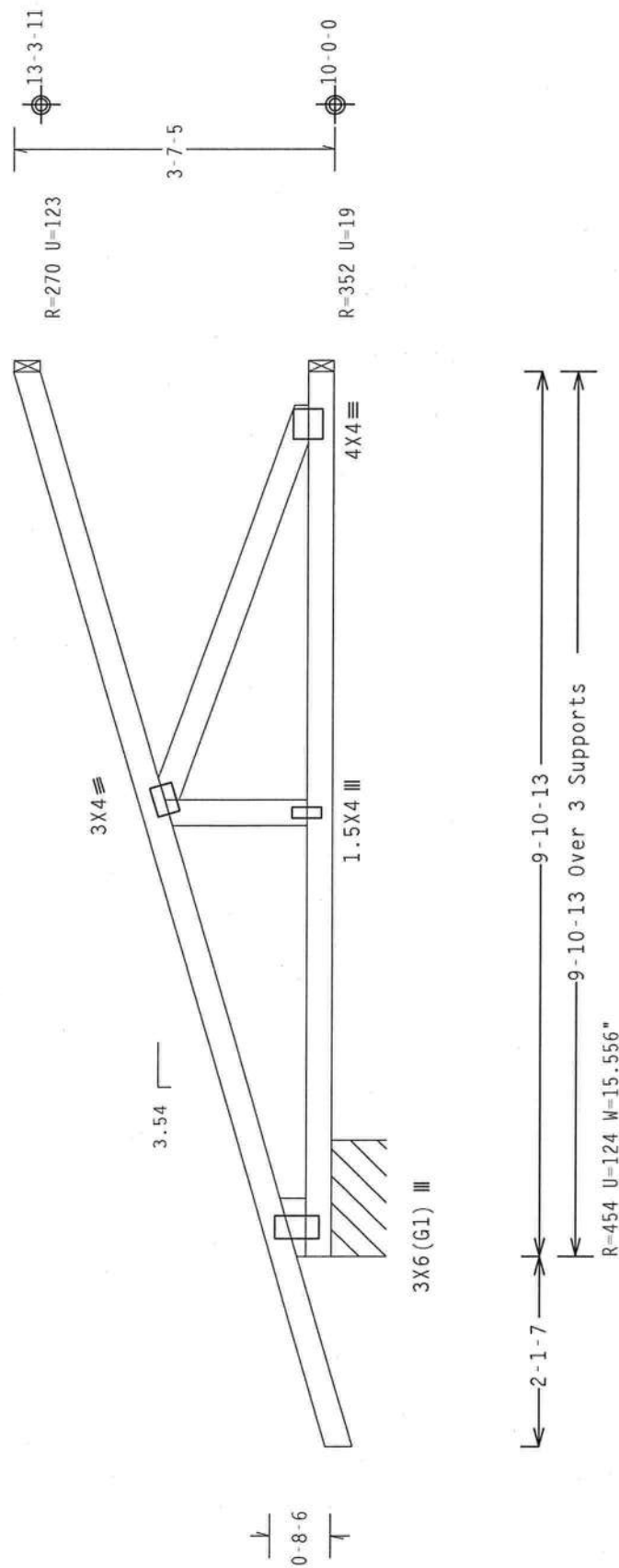
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P&J) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2010/160A (44/45/55/55) ASTM A553 GRADE 40/60 (41, 42/45/55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY SIGNATURE OF PROFESSIONAL ENGINEER 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.

1110 mph wind, 15.00 ft mean hgt; ASCE 7-02, PART\_ENC.bldg,  
Located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind  
BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.55

Wind reactions based on MWFRS pressures.

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

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



Design Crit: TPI-2002(STD)/FBC

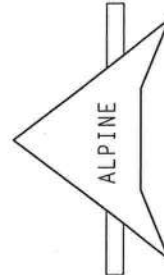
PLT TYP. Wave

042

OTY-1

E11-141-1-1R1-

Scale = .5"/Ft.



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

**\*\*WARNING\*\*** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PLEASE REFER TO THE FOLLOWING INFORMATION, PUBLISHED BY THE TRUSS PAPER INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, FOR THE COMPLETE SPECIFICATIONS. IN NORTH AMERICA, THE EMPRISE LANE, WA00150, M1 53719, FOR THE SPECIFICATIONS. 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 FOR ITM BEG, 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, OR BRACING OF TRUSSES. ITM BEG DESIGN COMPLETES ALL APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AISC) AND TPI-1. ITM BEG PLATES TO EACH FACE OF TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER APPROX. 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY TPI-1 SHALL BE PER ANNEK A3 OF TPI-1 2002 SEC-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE USER OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEK A1 SEC-2.



|          |       |     |        |            |          |
|----------|-------|-----|--------|------------|----------|
| TC LL    | 20.0  | PSF | REF    | R8228-     | 26170    |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07   |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228  | 07338084 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF      |          |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 63574      |          |
| DUR.FAC. | 1.25  |     | FROM   | AH         |          |
| SPACING  | 16.0" |     | JREF-  | 1TC8228Z01 |          |

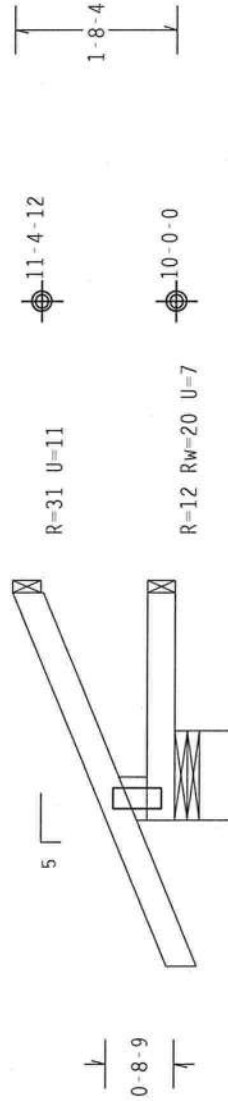
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
:Lt Stubby Wedge 2x4 SP #3:

Trusses to be spaced at 16.0" OC maximum.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART-ENC. bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpl(+/-)=0.55

Wind reactions based on MWFRS pressures.



1-6-0' →  
2-4-0' Over 3 Supports  
R=151 U=25 W=11"

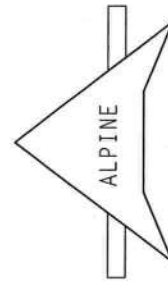
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.0

PLT TYP. Wave



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND 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 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 20/10/16GA (4-H/SS/4) ASTM A653 GRADE 40/60 (4, 4/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROVISIONS OF TPI-2002 SEC. 3.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



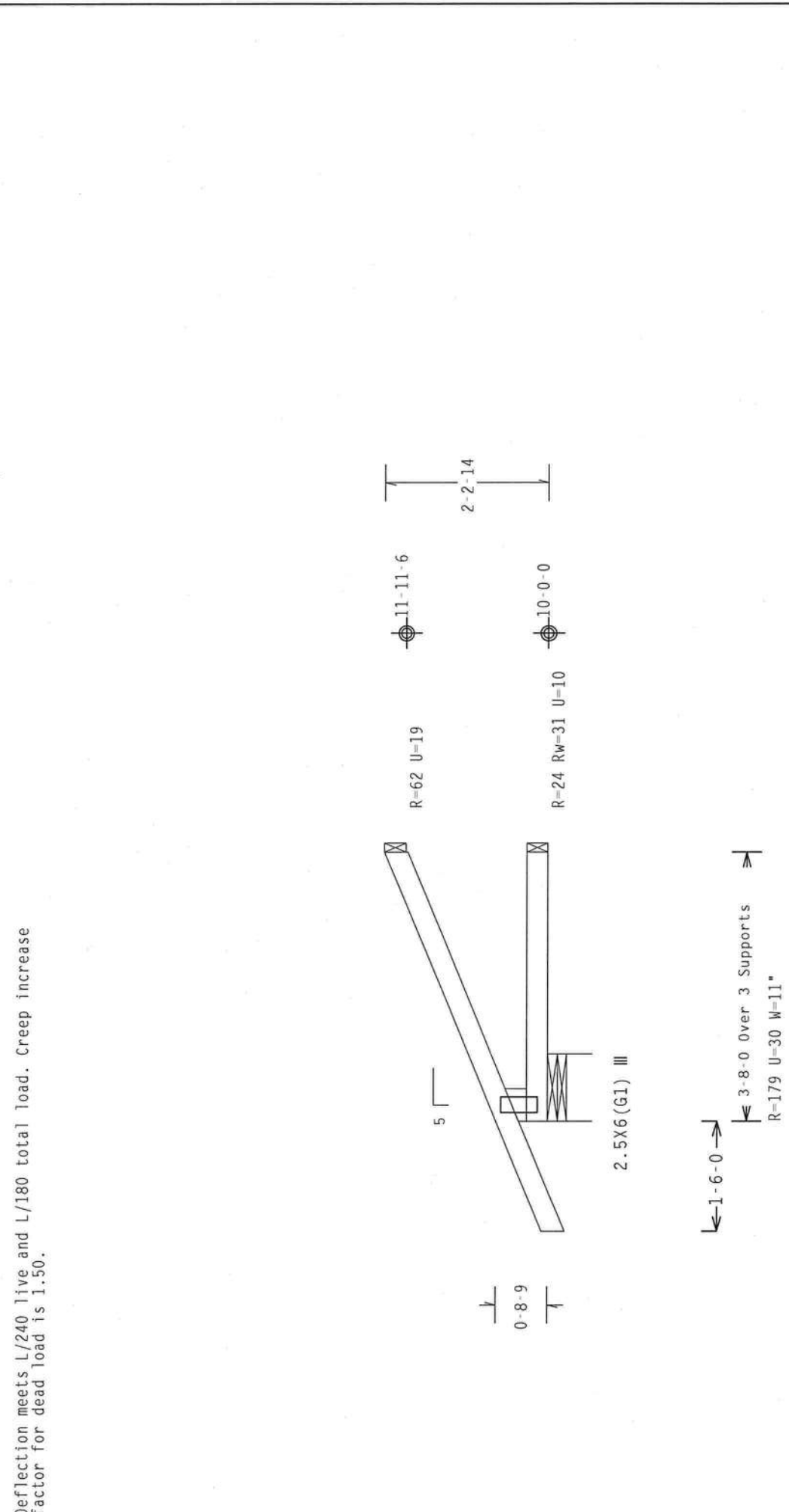
ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 00000000

QTY:1

Scale = .5" /Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26171       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338014 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63549              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF-  | 1TCZ8228Z01        |

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| Top chord 2x4 SP #2 Dense                 | 110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART_ENC. bldg,       |
| Bot chord 2x4 SP #2 Dense                 | Located anywhere in roof, CAT II, Exp B, wind TC DL=5.0 psf, wind |
| Lt Stubbed Wedge 2x4 SP #3:               | BC DL=5.0 psf. lw=1.00 GCpf (+/-)=0.55                            |
| Trusses to be spaced at 16.0" OC maximum. | Wind reactions based on MWFRS pressures.                          |



PLT TYP. Wave



**ALPINE**

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
Certificate of Authorization # 00000

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HOISTING, SUPPORTING, INSTALLATION AND BRACING. REFER TO PCS1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MTCA (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 BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE FOLLOWING SPECIFICATIONS OF THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF INTERNATIONAL DESIGN SPECIFICATIONS (AIA) AND TPI-11M BEG CONNECTOR PLATES ARE MADE OF 20/18/16GA (4-H/55/S/K) ASTM A653 GRADE 40/60 (40, K/H, 55) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-11-2002 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.



|        |                        |                   |     |        |                    |
|--------|------------------------|-------------------|-----|--------|--------------------|
| QTY: 1 | FL / - / 4 / - / R / - | Scale = .5" / Ft. |     |        |                    |
|        | TC LL                  | 20.0              | PSF | REF    | R8228- 26172       |
|        | TC DL                  | 10.0              | PSF | DATE   | 12/04/07           |
|        | BC DL                  | 10.0              | PSF | DRW    | HCUSR8228 07338015 |
|        | BC LL                  | 0.0               | PSF | HC-ENG | JB/DF              |
|        | TOT. LD.               | 40.0              | PSF | SEQN-  | 63553              |
|        | DUR. FAC.              | 1.25              |     | FROM   | AH                 |
|        | SPACING                | 16.0"             |     | JREF-  | 1TCZ8228Z01        |



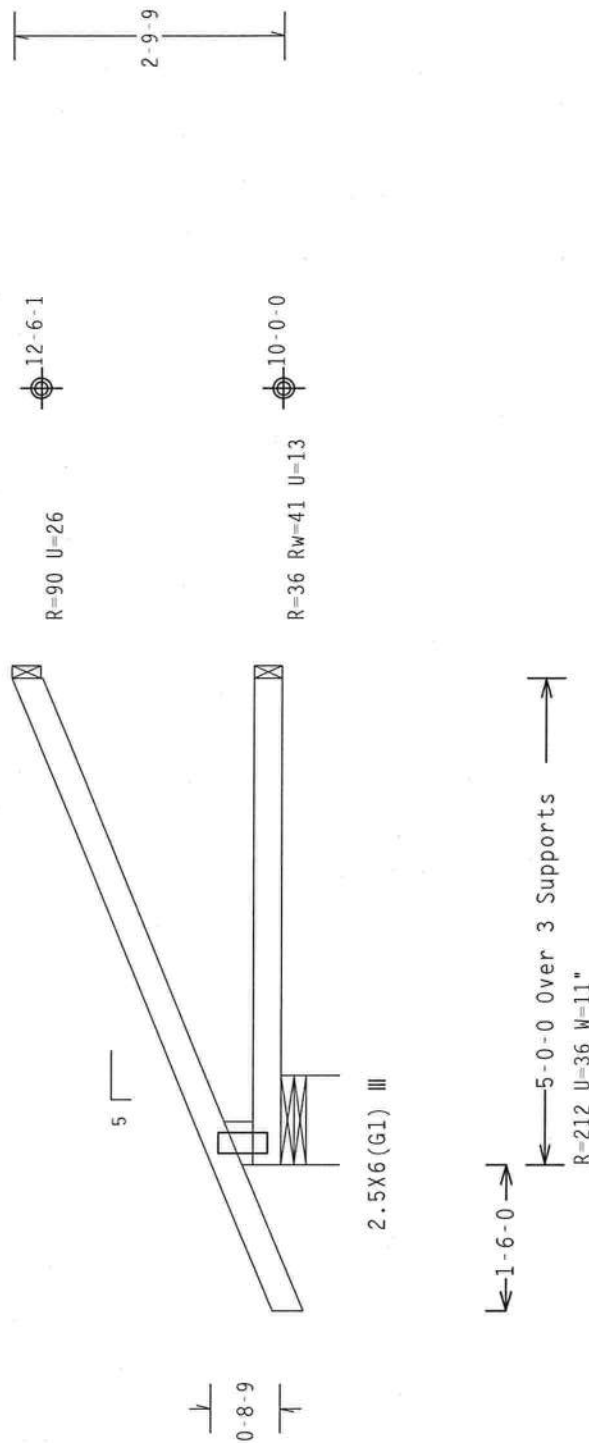
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
:Lt Stubb'd Wedge 2x4 SP #3:

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART\_ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf, wind BC D1=5.0 GCpi (+/-)=0.55

Trusses to be spaced at 16.0" OC maximum.

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

 $Cq/RT=1.00(1.25)/0(0)$  7.36.0428

OTY·1

F11-141-1-1B1-

Scale = 5"/Ft.

**\*WARNING\*** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, NORTHBOROUGH, MA 01861-1473 AND AIAA 14000 TRUSS COUNCIL OF AMERICA, 6300 UNIVERSITY DRIVE, SUITE 100, FALLS CHURCH, VA 22044, SHOULD BE READ AND UNDERSTOOD. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID GUSSETING.

**\*WARNING\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE HANDLED WITH EXTREME CARE TO PREVENT DAMAGE TO THE TRUSS. FOR COMPLETE INFORMATION, PUBLISHED BY ITI TRUSS FABRICATING COMPANY, 2100 NORTH LEE STREET, SUITE 100, WILSONVILLE, OR 97150. FOR SALES, CONTACT: CONCRETE CONCRETE AMERICA, 600 ENTERPRISE LANE, WILSONVILLE, OR 97150. ITI 53219. FOR SAFETY PRACTICES RELATIVE TO PERFORMANCE OF TRUSSES, SEE THE OTHERS. 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. ITI BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

[illegible]

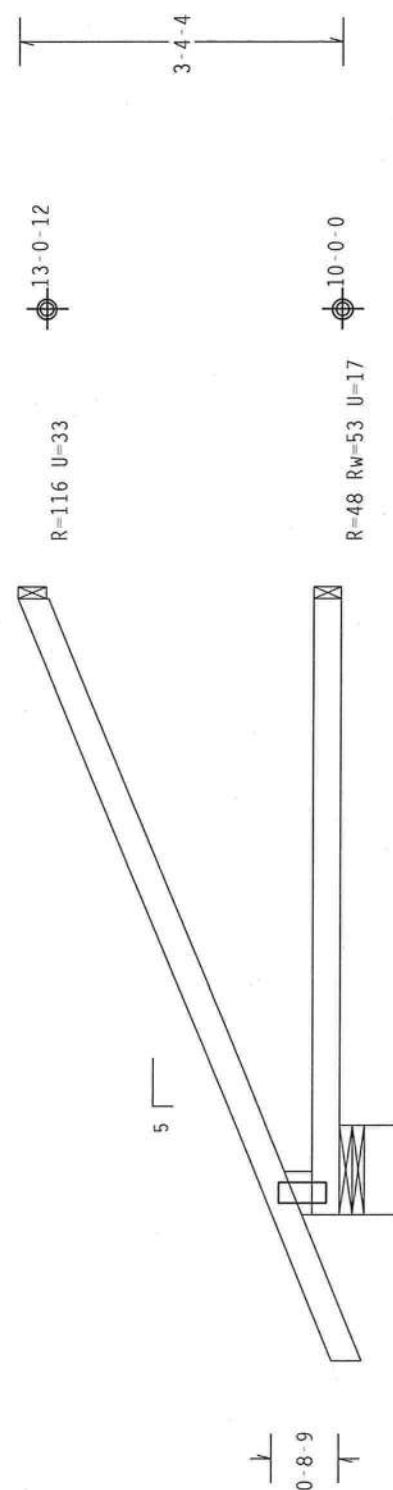
**ITW Building Components Group, Inc.**  
Haines City, FL 33844

Hamlet City, FL 33844  
FL Certificate of Authentication # 0370

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART\_ENC. 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, wind BC DL=5.0 GCpi (+/-)=0.55

Wind reactions based on MWFRS pressures.

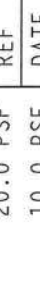
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



← 1-6-0 →  
6-4-0 Over 3 Supports  
R=246 I=42 W=11"

Design Crit: TPI-2002(STD)/FBC

Scale = .5"/Ft.



**ALPINE**

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
1-800-445-2270

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RETURN TO THE MANUFACTURER FOR INSTRUCTIONS. THIS TRUSS IS DESIGNED FOR THE FOLLOWING APPLICATIONS: 218 NORTH LEE STREET SUITE 312, ALEXANDRIA, VA 22304. THE TRUSS IS TO BE USED IN THE FOLLOWING APPLICATIONS: 6300 ENTERPRISE LANE, HADISON, MI 48321. 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 THE FOLLOWING DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, OR BRACING OF THE TRUSS. THE TRUSS SHALL BE DESIGNED TO CONFORM WITH APPLICABLE PROVISIONS OF AISC 360-10, AISC 360-16, AISC 360-22, AISC 360-23, AISC 360-24, AISC 360-25, AISC 360-26, AISC 360-27, AISC 360-28, AISC 360-29, AISC 360-30, AISC 360-31, AISC 360-32, AISC 360-33, AISC 360-34, AISC 360-35, AISC 360-36, AISC 360-37, AISC 360-38, AISC 360-39, AISC 360-40, AISC 360-41, AISC 360-42, AISC 360-43, AISC 360-44, AISC 360-45, AISC 360-46, AISC 360-47, AISC 360-48, AISC 360-49, AISC 360-50, AISC 360-51, AISC 360-52, AISC 360-53, AISC 360-54, AISC 360-55, AISC 360-56, AISC 360-57, AISC 360-58, AISC 360-59, AISC 360-60, AISC 360-61, AISC 360-62, AISC 360-63, AISC 360-64, AISC 360-65, AISC 360-66, AISC 360-67, AISC 360-68, AISC 360-69, AISC 360-70, AISC 360-71, AISC 360-72, AISC 360-73, AISC 360-74, AISC 360-75, AISC 360-76, AISC 360-77, AISC 360-78, AISC 360-79, AISC 360-80, AISC 360-81, AISC 360-82, AISC 360-83, AISC 360-84, AISC 360-85, AISC 360-86, AISC 360-87, AISC 360-88, AISC 360-89, AISC 360-90, AISC 360-91, AISC 360-92, AISC 360-93, AISC 360-94, AISC 360-95, AISC 360-96, AISC 360-97, AISC 360-98, AISC 360-99, AISC 360-100.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.3. 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/TP1 1 SEC. 2.



|          |       |     |        |               |          |
|----------|-------|-----|--------|---------------|----------|
| TC LL    | 20.0  | PSF | REF    | R8228 - 26174 |          |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07      |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228     | 07338017 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF         | *        |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 63561         |          |
| DUR.FAC. | 1.25  |     | FROM   | AH            |          |
| SPACING  | 16.0" |     | JREF-  | 1TCZ8228Z01   |          |

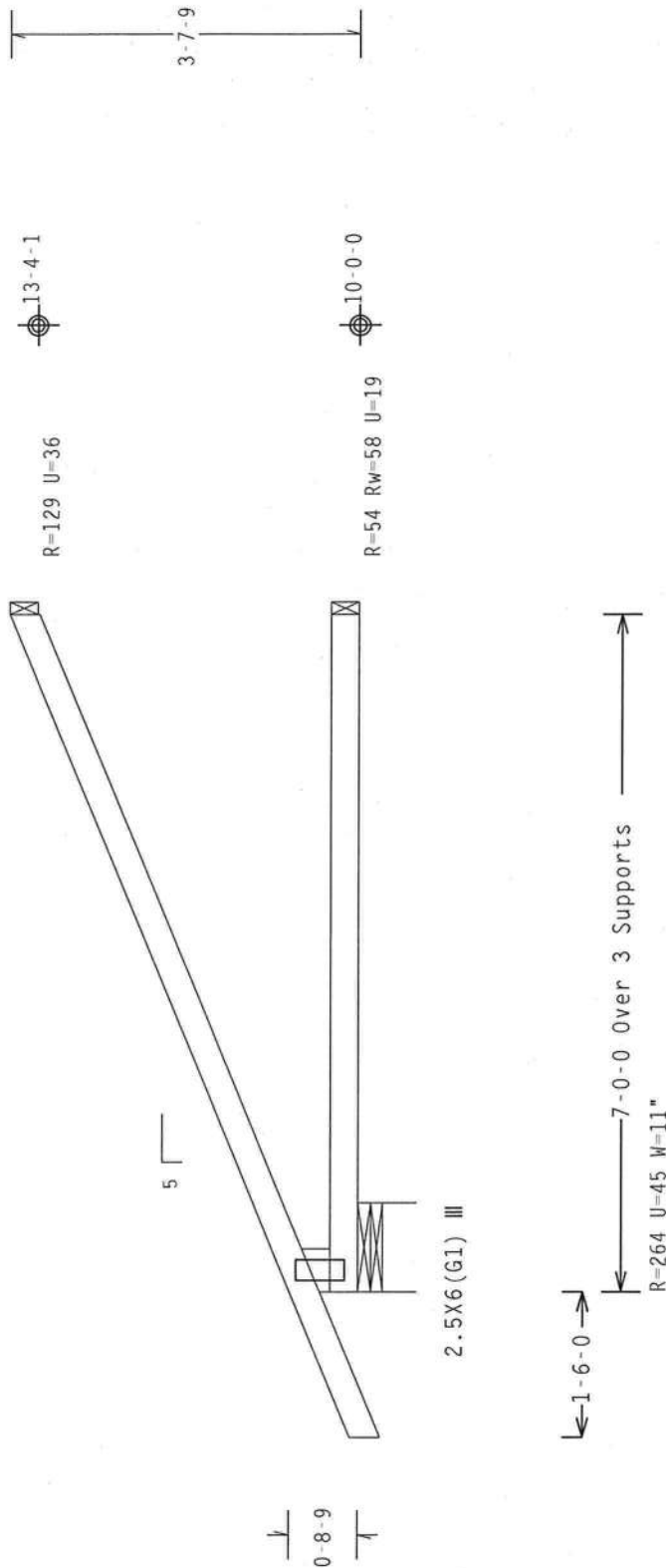
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
:Lt Stubbed wedge 2x4 SP #3:

Trusses to be spaced at 16.0" OC maximum.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. 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.  $I_w=1.00$  GCpl(+/-)=0.55

Wind reactions based on MMFRS pressures.



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

7.36.042

QTY:1

FL/-/4/-/R/-

Scale = .5"/Ft.

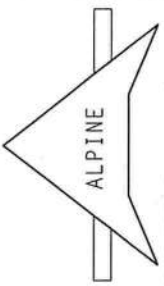
|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26175       |
| TC DL    | 10.0 PSF | DATE   | 12/04/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07338018 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF              |
| TOT.LD.  | 40.0 PSF | SEQN   | 63565              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 16.0"    | JREF   | 1TCZ8228Z01        |



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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 (40/55/53) ASTM A653 GRADE 40/60 (M, K/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. DRAWING INDICATES ACCEPTANCE OF PRODUCTION RESPONSIBILITY FOR THE TRUSS COMPONENT. A SEAL ON 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.

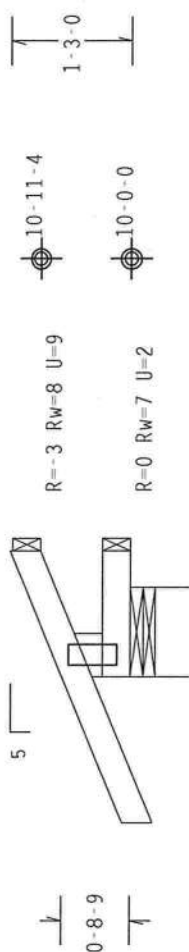


ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of A... tion # 0000

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. lw=1.00 GCpi (+/-)=0.18

Wind reactions based on MWFRS pressures.

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



2.5X6(G1) III

$\downarrow$  1-6-0  $\rightarrow$   
 1-3-8 Over 3 Supports  
 $\leftarrow$   $\rightarrow$   
 R=139 U=24 W=11"

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

Scale = .5"/Ft.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26176      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07          |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 0738089 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF             |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63649             |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 16.0"    | JREE-  | 1TCZ8228Z01       |

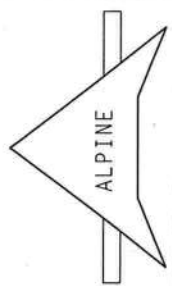


**\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET - SUITE 312, ALBANY, NY, 12214 AND WFLA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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 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 THE DESIGN OR SPECIFICATIONS BY THE TRUSS IN COMPLIANCE WITH THE TYPE OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (H-W/STIFFENED) ASTM A653 GRADE 40/50 (H, W/H-S/S) GALV., STEEL, APPLIED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

FOR 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 MANUFACTURING SHOWING. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE CONSULTING DESIGNER PER ANNEX TPI 1 SEC. 2.

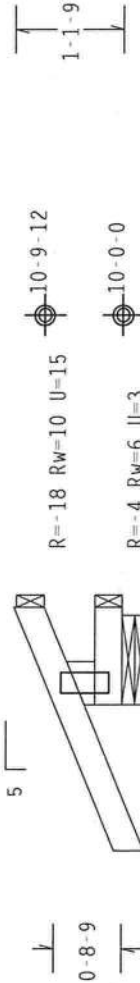


**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authority # 00079

11110 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

Wind reactions based on MWERS pressures.

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



2.5X6(G1) III

$\downarrow$  1-6-0  $\rightarrow$   
 1-0-0 Over 3 Supports  
 $R=143 \quad U=27 \quad W=1$

Design Crit: TPI-2002(STD)/FBC  
C<sub>a</sub>/RT=1.00(1.25)/

Scale = .5"/Ft.

ALPINE

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

FL Code of Adoption # 0-2020

04 '07

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY ITW (BRISTE PLATE INSTITUTE), 210 ENTERPRISE LANE, SUITE 312, ALEXANDRIA, VA 22314 AND MTCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 NORTHLEE STREET, SHILOH, MI 48319 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PA) AND TP1. 1TW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/JV/SS/K) ASTM A653 GRADE 40/60 (M, K/JH-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 AMB A3 OF TP1-2002 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 AMB1/TP1 1 SEC. 2.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 26177      |
| TC DL    | 10.0 PSF | DATE   | 12/04/07          |
| BC DL    | 10.0 PSF | DRW    | HCSR8228 07338076 |
| BC LL    | 0.0 PSF  | HC-ENG | JB /DF            |
| TOT.LD.  | 40.0 PSF | SEQN-  | 63656             |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 16.0"    | JREE-  | 1TCZ8228Z01       |



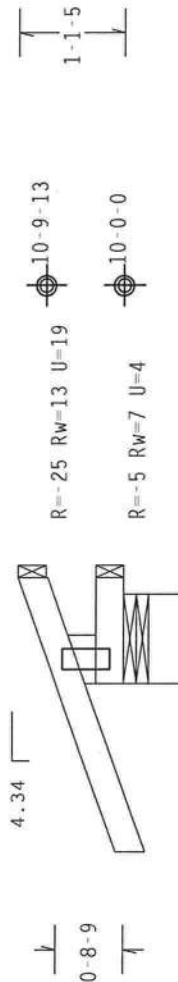
Top chord 2x4 Sp #2 Dense  
Bot chord 2x4 Sp #2 Dense  
:Lt Stubb'd Wedge 2x4 Sp #3:

1110 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. lw=1.00 GCpi (+/-)=0.18

Trusses to be spaced at 16.0" OC maximum.

Wind reactions based on MWFRS pressures.

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



2.5X6(G1) III

$\hookleftarrow 1-8-12 \rightarrow$   
 1-1-1 Over 3 Supports

R=165 U=37 W=11"

Design Crit: TPI-2002(STD)/FBC

| $\text{Cq}/\text{RT}=1.00(1.25)/0(0)$ | 7.36.042 |
|---------------------------------------|----------|
| 1.200E(316)/1.00                      |          |

OTY:1

FL 1-141-1-1R1-

Scale = 5"/Ft

**\*WARNING\*** THUSSES REQUIRE EXTREME CARE IN ERECTION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE STEEL INSTITUTE, 210 NORTH LEE STREET, SUITE 3012, ALEXANDRIA, VA 22314, AND THUSS COMPANY, 100 ENTERPRISE LANE, MADISON, AL 35719, 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 BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH D01; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC. BY AEPAA) AND TPI, TYPICAL FOR FABRICATING, WELDING, SHOPPING, INSTALLING & BRACING OF TRUSSES. ITN BEG CONNECTOR PLATES ARE MADE OF 20/18/16GA (N/255K) ASTM A653 GRADE 40/60 (N, K/H-55) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/TP1 1 SEC. 2.



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

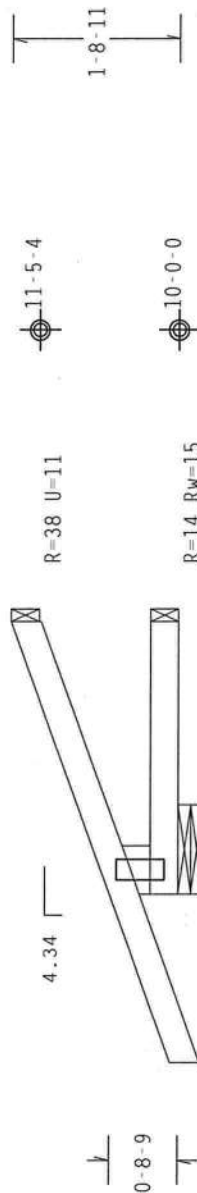
James City, IL 62044  
FL Certificate of Authorization # 0378



1110 mph wind, 15.00 ft mean ht, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

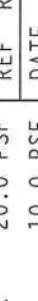
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



$\leftarrow 1-8-12 \rightarrow$   
 $\leftarrow 2-9-10 \text{ Over } 3 \text{ Supports} \rightarrow$   
 $R=175 \quad U=23 \quad W=11''$

PLT TYP. Wave

0424 GLASS FLEM: QTY: 1 FL / - 4 / - / - / R / - Scale = .5" / Ft.

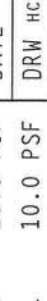


**ALPINE**

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
Contractor of Assemblyman # 0000

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND TRACING. REFER TO BEST BUILDING PRACTICES FOR SAFETY PRECAUTIONS. PUBLISHED BY BPTI (TRUSS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304-4100. PHONE: 703-683-1100. FAX: 703-683-1101. E-MAIL: BPTI@TRUSS.PAPER.ORG. ENTERPRISE LABEL, 04010510R, 312, 5327191. 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 NEW DESIGN. ANY VARIATION OF THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH BPTI OR FABRICATING, HANDLING, SHIPPING, OR INSTALLING TRUSSES IN ACCORDANCE WITH THE ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATIONS FOR APA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (24 H/55/K) ASTM A563 GRADE 40/60 (24, 4/16/55 GALV.) STEEL, 1700A-2, 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 AMEER A3 OF TPI-2002 SEC-3. A SEAL ON THIS DRAWING INDICATES THE SUFFICIENCY 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    | 20.0  | PSF | REF    | R8228- 26180       |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07           |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228 07338020 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF *            |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 63689              |
| DUR.FAC. | 1.25  |     | FROM   | AH                 |
| SPACING  | 16.0" |     | JREF-  | 1TCZ8228Z01        |

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
:Lt Stubbed Wedge 2x4 SP #3:  
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

Trusses to be spaced at 16.0" OC maximum.  
Wind reactions based on MWFRS pressures.

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



5' height  
0-8-9 spacing  
1-4-10 spacing  
R-9 U-5  
R-4 Rw=9  
2.5X6 (G1) III

1-6-0 over 3 supports  
1-7-6 over 3 supports  
R=141 U=21 W=11"

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

PLT TYP. Wave

Scale = 5"/Ft.

| QTY:1    | FL/-/4/-/-/R/- | REF                    |
|----------|----------------|------------------------|
| TC LL    | 20.0 PSF       | R8228- 26181           |
| TC DL    | 10.0 PSF       | DATE 12/04/07          |
| BC DL    | 10.0 PSF       | DRW HCUSR8228 07338021 |
| BC LL    | 0.0 PSF        | HC-ENG JB/DF *         |
| TOT.LD.  | 40.0 PSF       | SEQN- 63693            |
| DUR.FAC. | 1.25           | FROM AH                |
| SPACING  | 16.0"          | JREF- 1TCZ8228Z01      |

11-1-2  
10-0-0

1-6-0 over 3 supports  
1-7-6 over 3 supports  
R=141 U=21 W=11"

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

PLT TYP. Wave

Scale = 5"/Ft.

11-1-2  
10-0-0

1-6-0 over 3 supports  
1-7-6 over 3 supports  
R=141 U=21 W=11"

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

PLT TYP. Wave

Scale = 5"/Ft.

11-1-2  
10-0-0

1-6-0 over 3 supports  
1-7-6 over 3 supports  
R=141 U=21 W=11"

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

PLT TYP. Wave

Scale = 5"/Ft.

11-1-2  
10-0-0

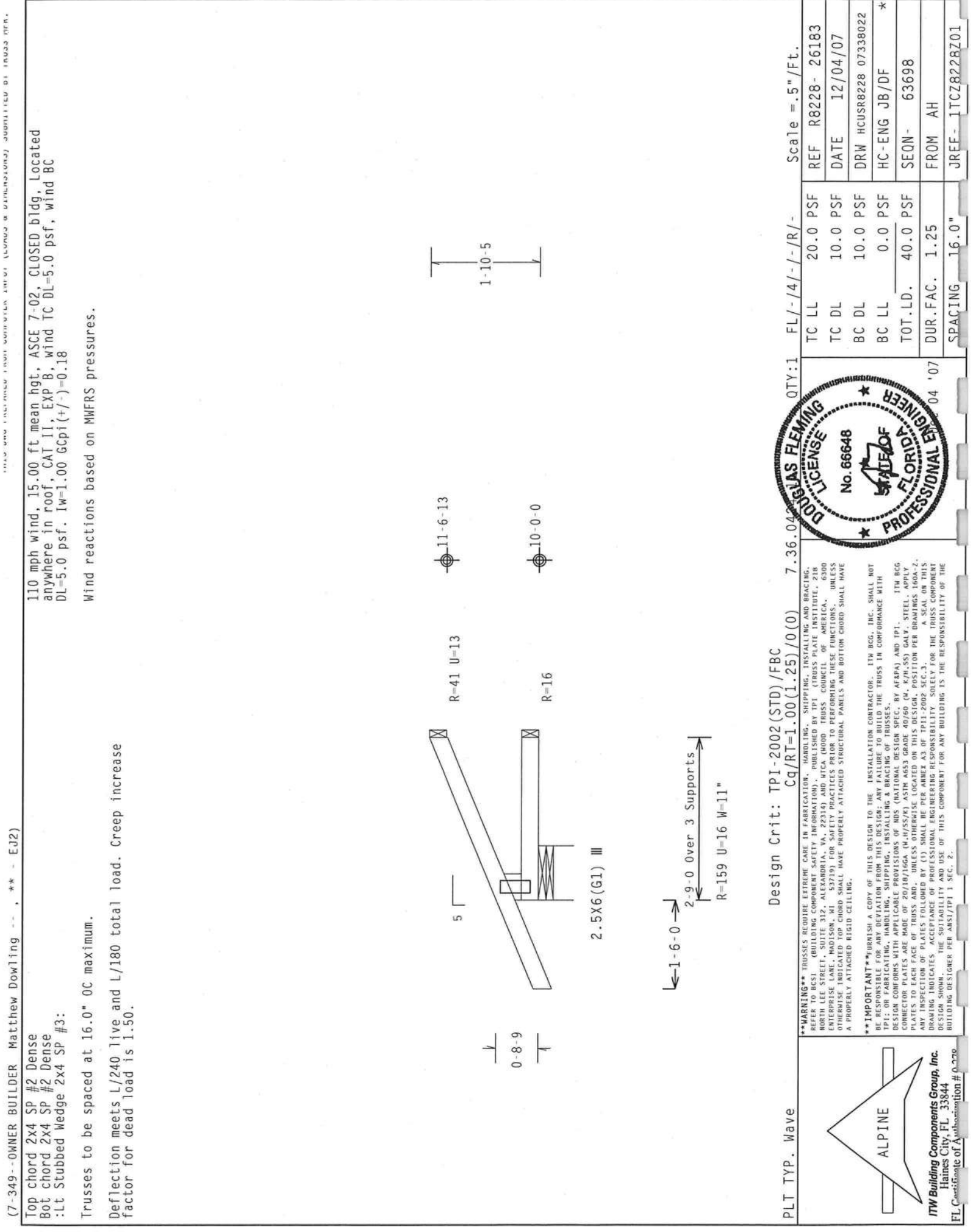
1-6-0 over 3 supports  
1-7-6 over 3 supports  
R=141 U=21 W=11"

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0) 7.36.04

PLT TYP. Wave







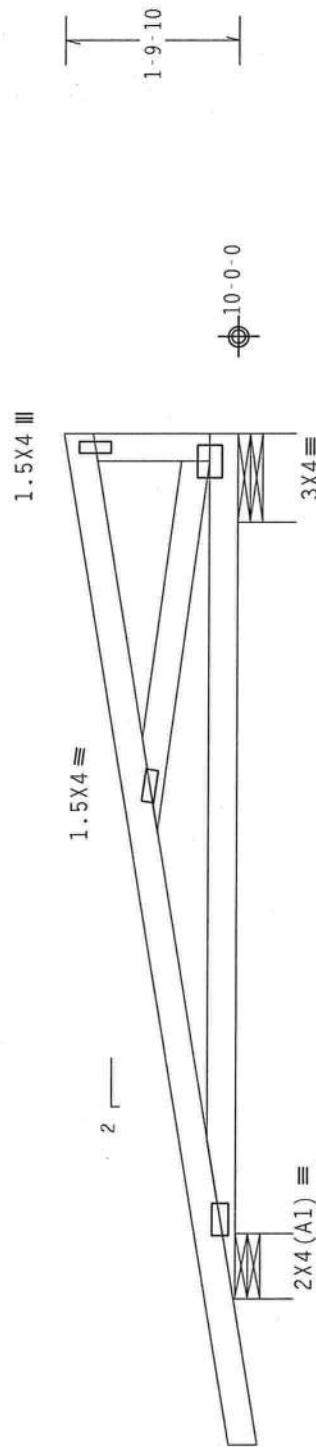
| Top chord | 2x4 | SP | #2 | Dense |
|-----------|-----|----|----|-------|
| Bot chord | 2x4 | SP | #2 | Dense |
| Webbs     | 2x4 | SP | #3 |       |

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. 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(+/-)=0.55

Trusses to be spaced at 16.0" OC maximum.

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

Wind reactions based on MWFRS pressures.



→ 1-6-0 →

8-11-0 Over 2 Supports

R=313 U=93 W=8"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

 $Cq/RT=1.00(1.25)/0(0)$  7.36.04

QTY:1

Scale = .5"/Ft.

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|          |       |     |        |             |          |
|----------|-------|-----|--------|-------------|----------|
| TC LL    | 20.0  | PSF | REF    | R8228-      | 26184    |
| TC DL    | 10.0  | PSF | DATE   | 12/04/07    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR8228   | 07338023 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF       | *        |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 63615       |          |
| DUR.FAC. | 1.25  |     | FROM   | AH          |          |
| SPACING  | 16.0" |     | JREF-  | 1TCZ8228Z01 |          |

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

:Stack Chord SC1 2x4 SP #2 Dense:

Truss spaced at 16.0" OC designed to support 1-0-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NNL).

Dropped top chord braced at 24" o.c. intervals. Attach stacked top-chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

SEE DRW HCUSR001 02086015 FOR GABLE DETAILS.

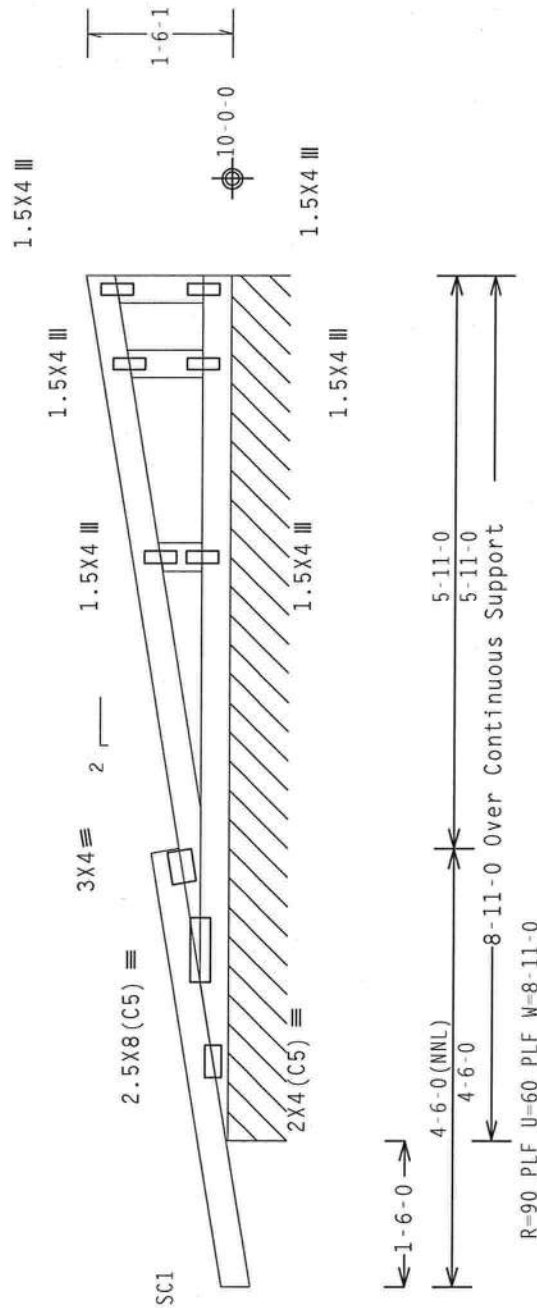
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. bldg,  
Located anywhere in roof, CAT II, Exp B, wind TC DL=5.0 psf, wind  
BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.55

Wind reactions based on MWFRS pressures.

Trusses to be spaced at 16.0" OC maximum.

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

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



R=90 PLF U=60 PLF W=8-11-0

Design Crit: TPI-2002(STD)/FBC

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

QTY: 1

FL 1-141-1-1R/-

$$\text{Scale} = 5''/\text{Ft}$$

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[illegible]

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

FL Certificate of Authorization # 0270

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.

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLUB 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<br>SIZE | SPECIFIED CLB<br>BRACING | T OR L-BRACE | ALTERNATIVE BRACING<br>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.

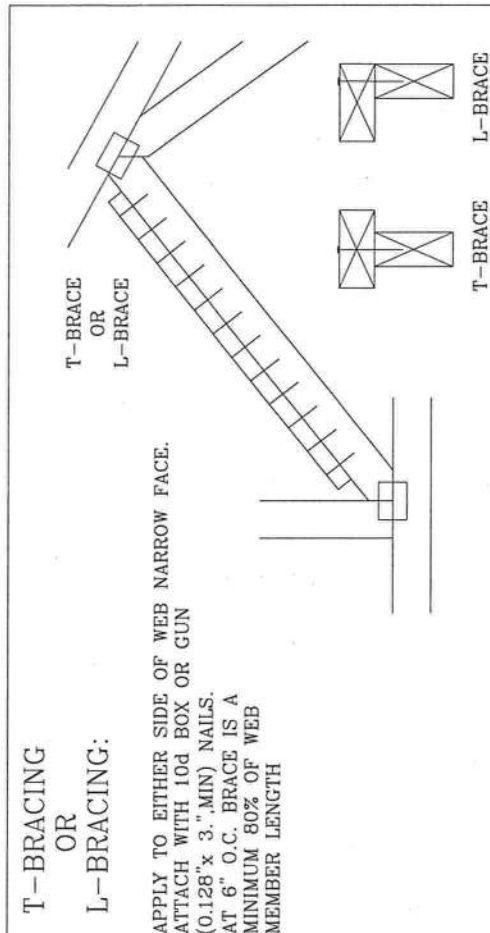
(\*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.



ITW BUILDING COMPONENTS GROUP, INC.  
POMPANO BEACH, FLORIDA

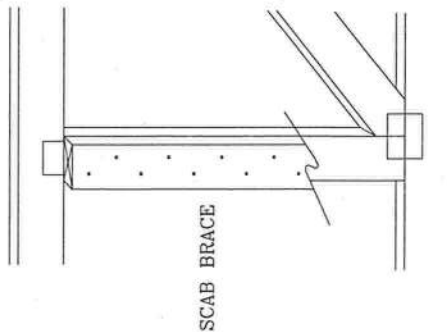
• **WARNING:** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND TO THE BUILDING CODES OF AMERICA, 6900 ENTERPRISE N. WILSON, J. 55719, FOR SAFETY PRACTICES 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 INSTALLATION CONTRACT TO BCG, INC., THE COMPANY RESPONSIBLE FOR THIS DESIGN. ANY FAILURE TO BUILD OR CONSTRUCT IN ACCORDANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES AND CONNECTIONS IN ACCORDANCE WITH TPI; OR APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR AF&PA) AND TPI DESIGN REQUIREMENTS SHALL BE AT THE RISK OF THE USER. ALL STEEL CONNECTOR PLATES ARE MADE OF 20/8176/SSA C/W/H/SS/CX ASTM A653 GRADE 40/60 C/W/H/SSZ GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND TO EACH FACE OF GIRDER AND TO EACH FACE OF CHORD MEMBER PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PERFORMED PRIOR TO THE BEGINNING OF ERECTION. SEAL IN THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S SIGNATURE AND SEAL. THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER SE, IS NOT A RESPONSIBILITY OF THE BUILDING DESIGNER, PER SE, UNDER TPI 1 SEC. 2.



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

|           |     |      |               |
|-----------|-----|------|---------------|
| TC LL     | PSF | REF  | CLB SUBST.    |
| TC DL     | PSF | DATE | 2/23/07       |
| BC DL     | PSF | DRWG | BRCCLBSUB0207 |
| BC LL     | PSF | -ENG | MLH/KAR       |
| TOT. LD.  | PSF |      |               |
| DUR. FAC. |     |      |               |
| SPACING   |     |      |               |

(Copy-ASCE 7-98 DETAILS - GABLE)

140 MPH WIND, 30.0 FT MEAN HGT, ASCE 7-98, PART. ENC. BLDG. LOCATED ANYWHERE IN ROOF, CAT II. EXP C. WIND TCCL=5.0 PSF, WIND BCDL=5.0 PSF.

140 MPH WIND, 30.0 FT MEAN HGT, ASCE 7-02, PART. ENC. BLDG. LOCATED ANYWHERE IN ROOF, CAT II. EXP C. WIND TCCL=5.0 PSF, WIND BCDL=5.0 PSF.

+ FOR VERTICAL WEBS LESS THAN 4'0": W1X4  
FOR VERTICAL WEBS GREATER THAN 4'0" BUT NO MORE THAN 11'6": W2X4.

\* SPLICE, PEAK, AND HEEL PLATES TO MATCH COMMON TRUSS.

\*\* 2X4 OR GREATER CHORDS.

DROP GABLE WILL SUPPORT 4'0" OUTLOOKERS WITH 2'0" OVERHANG (DROP HEEL GABLE) SPACED 24" O.C., OR THE LOAD FROM 12" PLYWOOD OVERHANG (NOMINAL HEEL GABLE).

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO DESIGN THE ROOF AND CEILING DIAPHRAGMS AND SPECIFY CONNECTIONS TO TRANSFER ALL OUT-OF-PLANE LOADS INTO THE ROOF AND CEILING DIAPHRAGMS.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE GABLE SHEAR WALL DESIGN, CEILING AND ROOF SHEATHING DIAPHRAGM CONNECTIONS, AND ALL TRUSS TO WALL CONNECTIONS.

++ 7/16 MINIMUM APA RATED SHEATHING PROPERLY ATTACHED WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS.

R1 NOTE: NAIL STEPS OF LADDER TRUSS ONTO THE OUTSIDE PIECES WITH 2-160 NAILS AT EACH END.

R1 NOTE: ATTACH LADDER TRUSS TO TOP CHORD OF GABLE TRUSS WITH TWO ROWS OF 160 NAILS @ 8" O.C. STAGGERED 4"

ALT. GABLE SHAPES:



Note: All Plates Are 2X4 Except As Shown.

PLT TYP. Wave TPI-95

Design Crit: TPI-1995 (STD)

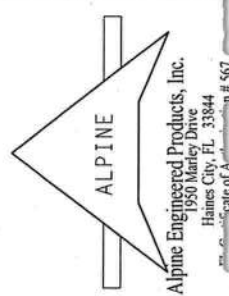
R3: REVISED DIAPHRAGM NOTE.  
DLJ 02/27/2006

R2: REVISED FOR ASCE 7-02.  
DLJ 09/30/2005  
R1 REV 2-5-02 JWC  
H1/-1/-1/-R/-

DETAIL: 140GC  
Scale = .375" / Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 TRUSS INSTALLATION MANUAL FOR TPI CROSS PLATE INSTALLATION. SEE D'ORDERIO DR., SUITE 200, MADISON, WI 53719, AND WOOD TRUSS JOINTS, AIA, 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. PRODUCTS, 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) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1666 (W/S/S) ASTM A653 GRADE 40/60 (W, K/H/S) 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 A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 30.0 PSF | REF    | R001-- 0          |
| TC DL    | 7.0 PSF  | DATE   | 03/27/02          |
| BC DL    | 10.0 PSF | DRW    | HCUSR001 02086015 |
| BC LL    | 0.0 PSF  | HC-ENG | DLJ/DLJ           |
| TOT.LD.  | 47.0 PSF | SEQN-  | 24860             |
| DUR.FAC. | 1.33     |        |                   |
| SPACING  | 24.0"    | JREF-  | 1SV3001_R03       |

BRACING DEFINITIONS:  
NOTE: "END ZONE" EXISTS 18" AT BOTH ENDS OF VERTICAL WEB.

(A) (1) 2X4 SP #3 "L" BRACE. ATTACH WITH 0.128"X3" NAILS @ 2" OC. IN END ZONES; 4" OC. BETWEEN ZONES.

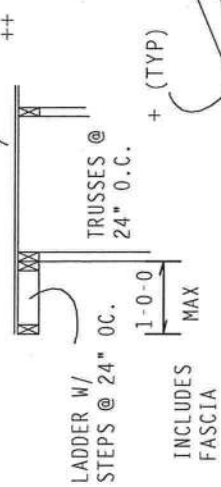
(B) (2) 2X4 SP #3 "L" BRACES. ATTACH EACH WITH 0.128"X3" NAILS @ 3" OC. IN END ZONES; 6" OC. BETWEEN ZONES.

(C) (1) 2X6 SP #2 N "L" BRACE. ATTACH WITH 0.128"X3" NAILS @ 2" OC. IN END ZONES; 4" OC. BETWEEN ZONES.

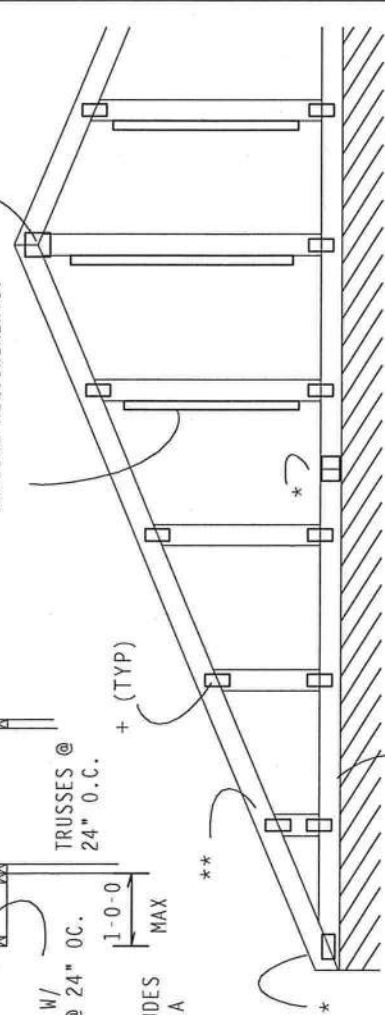
(D) (2) 2X6 SP #2 N "L" BRACES. ATTACH EACH WITH 0.128"X3" NAILS @ 3" OC. IN END ZONES; 6" OC. BETWEEN ZONES.

| STUD SPACING / BRACING TABLE: |                             |             |                                  |                                  |                                  |                                  |
|-------------------------------|-----------------------------|-------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 2X4 SP #3<br>STUD<br>SPACING  | DEFLEC-<br>TION<br>CRITERIA | NO<br>BRACE | (1) 2X4<br>"L" BRACE<br>TYPE (A) | (2) 2X4<br>"L" BRACE<br>TYPE (B) | (1) 2X6<br>"L" BRACE<br>TYPE (C) | (2) 2X6<br>"L" BRACE<br>TYPE (D) |
| 24"                           | L/360                       | -----       | 3' 1"                            | 4' 2"                            | 6' 3"                            | 8' 0"                            |
| 24"                           | L/180                       | -----       | 3' 4"                            | 5' 7"                            | 6' 3"                            | 11' 0"                           |
| 16"                           | L/360                       | -----       | 3' 11"                           | 5' 3"                            | 7' 10"                           | 9' 11"                           |
| 16"                           | L/180                       | -----       | 4' 9"                            | 7' 4"                            | 9' 6"                            | 11' 0"                           |
| 12"                           | L/360                       | -----       | 4' 7"                            | 6' 1"                            | 8' 11"                           | 11' 0"                           |
| 12"                           | L/180                       | -----       | 5' 11"                           | 8' 5"                            | 11' 0"                           | 11' 0"                           |

OVERHANG DETAIL



REFER TO TABLE FOR BRACING REQUIREMENTS.



Over Continuous Support U=280 PLF



## PRODUCT APPROVAL SPECIFICATION SHEET

**Location:** 05-68-17-09607-201

**Project Name:** Dowling (Matthew/Nancy)

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

| Category/Subcategory       | Manufacturer | Product Description           | Approval Number(s) |
|----------------------------|--------------|-------------------------------|--------------------|
| <b>A. EXTERIOR DOORS</b>   |              |                               |                    |
| 1. Swinging                |              |                               |                    |
| 2. Sliding                 |              |                               |                    |
| 3. Sectional               |              |                               |                    |
| 4. Roll up                 |              |                               |                    |
| 5. Automatic               |              |                               |                    |
| 6. Other                   |              |                               |                    |
| <b>B. WINDOWS</b>          |              |                               |                    |
| 1. Single hung             | Kinco, Ltd   | Aluminum Single Hung          | FL123-R2 123.3     |
| 2. Horizontal Slider       |              |                               |                    |
| 3. Casement                |              |                               |                    |
| 4. Double Hung             |              |                               |                    |
| 5. Fixed                   |              |                               |                    |
| 6. Awning                  |              |                               |                    |
| 7. Pass-through            |              |                               |                    |
| 8. Projected               |              |                               |                    |
| 9. Mullion                 |              |                               |                    |
| 10. Wind Breaker           |              |                               |                    |
| 11. Dual Action            |              |                               |                    |
| 12. Other                  |              |                               |                    |
| <b>C. PANEL WALL</b>       |              |                               |                    |
| 1. Siding                  |              |                               |                    |
| 2. Soffits                 |              |                               |                    |
| 3. EIFS                    |              |                               |                    |
| 4. Storefronts             |              |                               |                    |
| 5. Curtain walls           |              |                               |                    |
| 6. Wall louver             |              |                               |                    |
| 7. Glass block             |              |                               |                    |
| 8. Membrane                |              |                               |                    |
| 9. Greenhouse              |              |                               |                    |
| 10. Other                  |              |                               |                    |
| <b>D. ROOFING PRODUCTS</b> |              |                               |                    |
| 1. Asphalt Shingles        |              |                               |                    |
| 2. Underlayments           |              |                               |                    |
| 3. Roofing Fasteners       |              |                               |                    |
| 4. Non-structural Metal Rf | Flash Custom | 26 gauge steel 24" wide panel | FL4610             |
| 5. Built-Up Roofing        |              |                               |                    |
| 6. Modified Bitumen        |              |                               |                    |
| 7. Single Ply Roofing Sys  |              |                               |                    |
| 8. Roofing Tiles           |              |                               |                    |
| 9. Roofing Insulation      |              |                               |                    |
| 10. Waterproofing          |              |                               |                    |
| 11. Wood shingles /shakes  |              |                               |                    |
| 12. Roofing Slate          |              |                               |                    |

| Category/Subcategory (cont.)             | Manufacturer    | Product Description               | Approval Number(s) |
|------------------------------------------|-----------------|-----------------------------------|--------------------|
| 13. Liquid Applied Roof Sys              |                 |                                   |                    |
| 14. Cements-Adhesives – Coatings         |                 |                                   |                    |
| 15. Roof Tile Adhesive                   |                 |                                   |                    |
| 16. Spray Applied Polyurethane Roof      |                 |                                   |                    |
| 17. Other                                |                 |                                   |                    |
| <b>E. SHUTTERS</b>                       |                 |                                   |                    |
| 1. Accordion                             |                 |                                   |                    |
| 2. Bahama                                |                 |                                   |                    |
| 3. Storm Panels                          |                 |                                   |                    |
| 4. Colonial                              |                 |                                   |                    |
| 5. Roll-up                               |                 |                                   |                    |
| 6. Equipment                             |                 |                                   |                    |
| 7. Others                                |                 |                                   |                    |
| <b>F. SKYLIGHTS</b>                      |                 |                                   |                    |
| 1. Skylight                              |                 |                                   |                    |
| 2. Other                                 |                 |                                   |                    |
| <b>G. STRUCTURAL COMPONENTS</b>          |                 |                                   |                    |
| 1. Wood connector/anchor                 |                 |                                   |                    |
| 2. Truss plates                          |                 |                                   |                    |
| 3. Engineered lumber                     |                 |                                   |                    |
| 4. Railing                               |                 |                                   |                    |
| 5. Coolers-freezers                      |                 |                                   |                    |
| 6. Concrete Admixtures                   |                 |                                   |                    |
| 7. Material                              |                 |                                   |                    |
| 8. Insulation Forms                      | Am. Polystee/uc | 6", 8", 10" Waffle grid ICF forms | FL 3619-R1         |
| 9. Plastics                              |                 |                                   |                    |
| 10. Deck-Roof                            |                 |                                   |                    |
| 11. Wall                                 |                 |                                   |                    |
| 12. Sheds                                |                 |                                   |                    |
| 13. Other                                |                 |                                   |                    |
| <b>H. NEW EXTERIOR ENVELOPE PRODUCTS</b> |                 |                                   |                    |
| 1.                                       |                 |                                   |                    |
| 2.                                       |                 |                                   |                    |

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

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

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Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

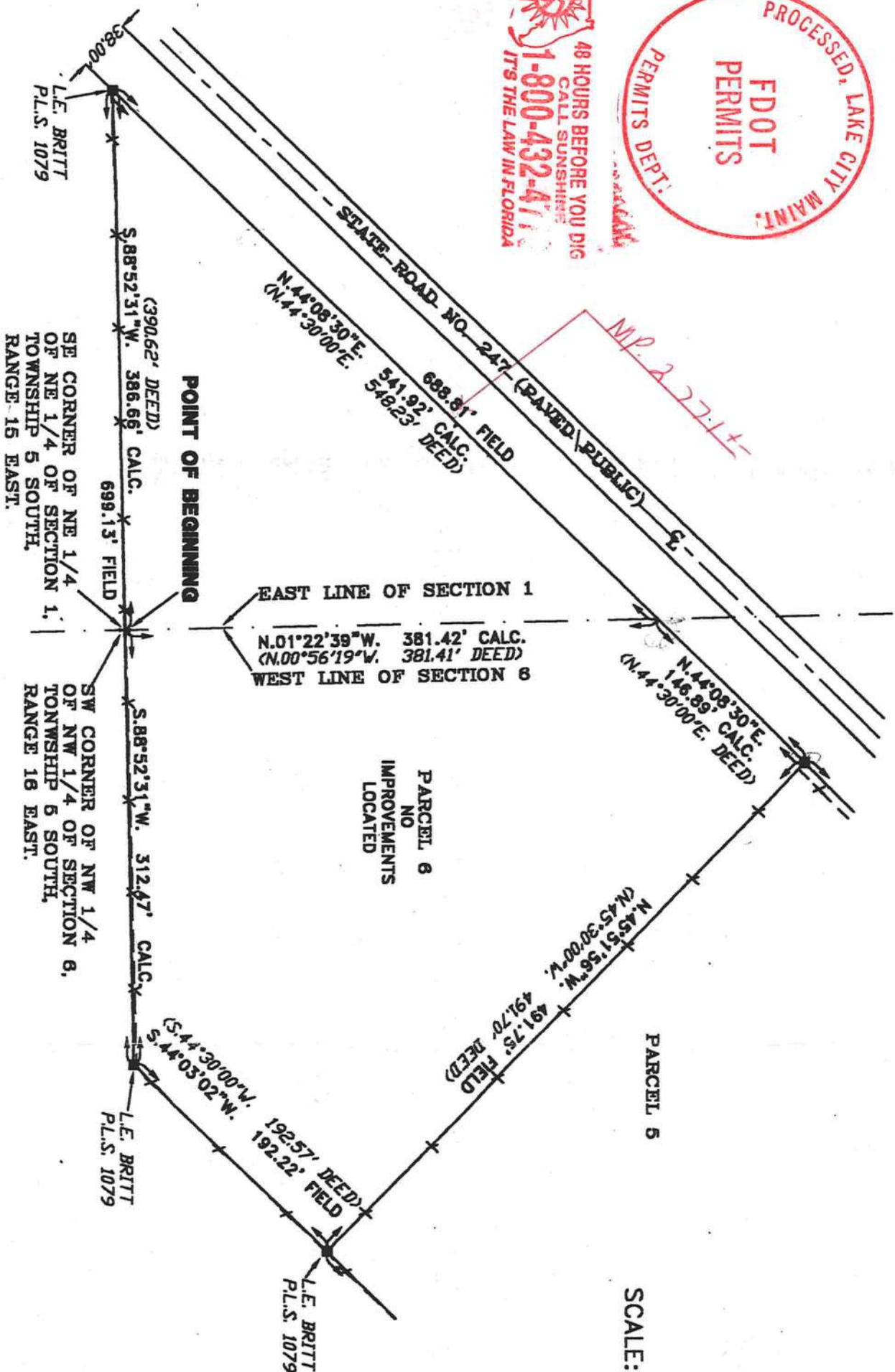
Permit # (FOR STAFF USE ONLY)



- SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND.
  2. BEARINGS ARE BASED ON DEED OF RECORD.
  3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0175 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREIN.
  4. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREIN.
  6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.



48 HOURS BEFORE YOU DIG  
CALL SUNSHINE  
1-800-432-4111  
IT'S THE LAW IN FLORIDA



A BOUNDARY SURVEY IN SECTION 6, TOWNSHIP 5 SOUTH, RANGE 16 EAST, AND IN SECTION 1, TOWNSHIP 5 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA.

SCALE: 1" = 100'

- SYMBOL LEGEND
- 4"x4" CONCRETE MONUMENT FOUND
  - 4"x4" CONCRETE MONUMENT SET
  - IRON PIPE FOUND
  - IRON PIN AND CAP SET
  - POWER POLE
  - WATER METER
  - CENTERLINE
  - WELL
  - SATELLITE DISH
  - TELEPHONE BOX
  - ELECTRIC LINES
  - WIRE FENCE
  - CHAIN LINK FENCE
  - WOODEN FENCE

DESCRIPTION: PARCEL 6 WEST A PART OF PARCEL 6 AS DESCRIBED IN A SURVEY DATED 28 JUNE, 1993, SIGNED BY L. E. BRITT, P.L.S. NO. 1079, BEING IN THE NW 1/4 OF SECTION 6, TOWNSHIP 5 SOUTH, RANGE 16 EAST AND IN THE NE 1/4 OF SECTION 1, TOWNSHIP 5 SOUTH, RANGE 15 EAST, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGIN AT THE SOUTHEAST OF THE NE 1/4 OF THE NE 1/4 OF SAID SECTION 1, AND RUN S.88°52'31"W., ALONG THE SOUTH LINE THEREOF, 390.62 FEET TO A POINT ON THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 247, THENCE N.44°30'00"E., ALONG SAID RIGHT-OF-WAY LINE 548.23 FEET TO A POINT ON THE EAST LINE OF SAID NE 1/4 OF SAID SECTION 1, THENCE CONTINUE N.44°30'00"E., STILL ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY LINE, 146.89 FEET, THENCE S.45°30'00"E., 491.70 FEET, THENCE S.44°30'00"W., 192.57 FEET TO A POINT ON THE SOUTH LINE OF THE NW 1/4 OF SAID NW 1/4 OF SECTION 6, THENCE S.88°52'31"W., ALONG THE SOUTH LINE THEREOF 312.47 FEET TO THE POINT OF BEGINNING, COLUMBIA COUNTY, FLORIDA, CONTAINING 5.01 ACRES, MORE OR LESS.

CERTIFIED TO:

MATTHEW DOWLING

FIELD BOOK 222

PAGE(S) 39

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 6807-6, FLORIDA ADMINISTRATIVE CODE, PARAGRAPH 19, SECTION 47002, FLORIDA STATUTES. 09/06/02 DRAWING DATE 09/12/02 FIELD SURVEY DATE L. SCOTT BRITT, P.S. CERTIFICATION # 5757



BRITT SURVEYING

LAND SURVEYORS AND MAPPERS  
830 WEST DUVAL STREET LAKE CITY, FLORIDA 32055  
(386)752-7163 FAX (386)752-5573  
WORK ORDER # L-12967

MATTHEW DOWLING