

A/E 01/08/2007

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025383

APPLICANT W. KENT MARSHALL PHONE 386.754.1985  
 ADDRESS POB 2074 LAKE CITY FL 32056  
 OWNER KATHY E. GALLIN PHONE 386.754.2652  
 ADDRESS 767 NW BRIDGEWATER TERRACE LAKE CITY FL 32055  
 CONTRACTOR W. KENT MARSHALL PHONE 386.754.1985

LOCATION OF PROPERTY LAKE JEFFERY ROAD TO COBBLESTONE S.D, TR TO BRIDGEWATER @ THE END OF CUL-DE-SAC, LAST LOT ON R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 130200.00

HEATED FLOOR AREA 2604.00 TOTAL AREA 3868.00 HEIGHT 26.40 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirements: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 24-3S-16-02275-117 SUBDIVISION COBBLESTONE

LOT 17 BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT 1 TOTAL ACRES 2.60

000001292 CGC022934 

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

18"X32'MITERED 06-01134N BLK JTH

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

COMMENTS: NOC ON FILE. 1ST. FLOOR TO BE 1 FOOT ABOVE ROAD.

Check # or Cash 1262

## 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 \$ 655.00 CERTIFICATION FEE \$ 19.34 SURCHARGE FEE \$ 19.34

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 \$ 25.00 TOTAL FEE 793.68

INSPECTORS OFFICE  CLERKS OFFICE 

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

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

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

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

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

Columbia County Building Permit Application

Septic

For Office Use Only Application # 0612-76 Date Received 12/27 By JW Permit # 1292-25383
Application Approved by - Zoning Official BLK Date 05.01.07 Plans Examiner OKJTH Date 1-2-07
Flood Zone X Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Den.
Comments 1st Floor to be 1st above Rd - ED. HEALTH -

Applicants Name KENT MARSHALL MARLIN CONST. OF IRC, INC. Phone 386-754-1985
Address PO Box 2074 LAKE CITY, FL 32056
Owners Name KATHY E. GALLIN Phone 386-754-2652
911 Address 767 N.W. BRIDGEWATER TERRACE LAKE CITY FL 32055
Contractors Name MARLIN CONST. OF IRC, INC. Phone 754-1985
Address PO Box 2074 LAKE CITY, FL 32056

Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address MARK DISOSWAY 754-5419
Mortgage Lenders Name & Address FIRST FED. OF FL. 755-0600

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 24-35-16-02275-117 Estimated Cost of Construction \$190,000
Subdivision Name CORBLESTONE Lot 17 Block Unit 1 Phase 1
Driving Directions TAKE LAKE JEFFREY ROAD WEST PAST THE MILLENIUM ABOUT 1/2 MILE ON RIGHT - CORBLESTONE S.D

Type of Construction FRAME - STD Number of Existing Dwellings on Property 0
Total Acreage 2.6 Lot Size Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 84' Side 40' Side 65' Rear 250'+
Total Building Height 26'4" Number of Stories 1 Heated Floor Area 2604 Roof Pitch 8/12
TOTAL 3868

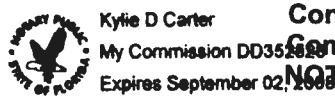
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

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

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

Owner Builder or Agent (Including Contractor) Contractor Signature
Contractors License Number C6C-022934
Competency Card Number
NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA



Sworn to (or affirmed) and subscribed before me
this 27 day of Dec 2007
Personally known X or Produced Identification

Kylie D Carter
My Commission DD:
Expires September
Notary Signature

JW APPROVED KENT 1.5.2007

This Instrument Prepared by & return to:  
Name: KATHY GALLIN  
Address: 379 NW DOGWOOD TERRACE  
LAKE CITY, FL 32055  
Parcel I.D. #: 02275-000

This Quit-Claim Deed executed this 2<sup>nd</sup> day of Feb, A.D. 2006, by

GILLES BOUCHACOURT, his undivided one-half interest in non homestead property,  
first party, to

KATHY R. GALLIN,  
whose post office address is 379 NW DOGWOOD TERR, LAKE CITY, FL 32055,  
second party:

(Wherever used herein, the terms "first party" and "second party" 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 said first party, for and in consideration of the sum of \$10.00, in hand paid by the said second party, the receipt whereof is hereby acknowledged, does hereby remise, release, and quit-claim unto the said second party forever, all the right, title, interest, claim and demand which the said first party has in and to the following described lot, piece or parcel of land, situate, lying and being in the County of Columbia, State of FLORIDA, to-wit:

Lot 17, COBBLESTONE, Unit 1, according to the map or plat thereof as recorded in Plat Book 8, Page 3-6, of the Public Records of Columbia County, FLORIDA.

To Have and to Hold the same, together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, interest, lien, equity and claim whatsoever of the said first party, either in law or equity, to the only proper use, benefit and behoof of the said second party forever.

In Witness Whereof, the said first party has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its proper officers thereunto duly authorized the day and year first above written.

Signed, sealed and delivered in the presence of:

[Signature]  
Witness Signature

Bonita Hadwin  
Printed Name

[Signature]  
Witness Signature

Regina Simpkins

Printed Name

Inst: 2006002636 Date: 02/02/2006 Time: 16:33

Doc Stamp-Deed : 0.70

J.F. DC, P. DeWitt Cason, Columbia County 51972 P. 1463

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 2<sup>nd</sup> day of Feb, 2006,  
by GILLES BOUCHACOURT who is personally known to me or has produced [Signature] as  
identification.



Bonita Hadwin  
MY COMMISSION # DD230004 EXPIRES  
August 10, 2007  
BONDED THROUGH FARM INSURANCE, INC.

[Signature]  
Signature of Notary  
My commission expires \_\_\_\_\_

THIS INSTRUMENT WAS PREPARED BY:  
FIRST FEDERAL SAVINGS BANK OF FLORIDA  
4705 WEST U.S. HIGHWAY 90  
P.O. BOX 2029  
LAKE CITY, FLORIDA 32056

PERMIT NO. \_\_\_\_\_

TAX FOLIO NO. \_\_\_\_\_

NOTICE OF COMMENCEMENT

STATE OF FLORIDA  
COUNTY OF Columbia

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

1. Description of property: Lot 17, COBBLESTONE, Unit 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 3-6, public records of Columbia County, Florida.

2. General description of improvement: Construction of Dwelling

3. Owner information:  
a. Name and address: KATHY E. GALLIN  
379 NW Dogwood Terrace, Lake City, FL 32055

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner): NONE

4. Contractor (name and address): MARLIN CONSTRUCTION OF I.R.C.  
Post Office Box 2074, Lake City, FL 32056

5. Surety:  
a. Name and address: \_\_\_\_\_

b. Amount of bond: \_\_\_\_\_

6. Lender: FIRST FEDERAL SAVINGS BANK OF FLORIDA  
4705 WEST U.S. HIGHWAY 90  
P. O. BOX 2029  
LAKE CITY, FLORIDA 32056

7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE

8. In addition to himself, Owner designates PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.

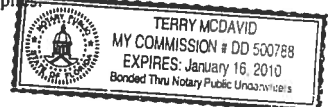
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

Kathy E. Gallin  
Borrower Name

Co-Borrower Name

The foregoing instrument was acknowledged before me this 28th day of November 2006 by Kathy E. Gallin, who is personally known to me or who has produced driver's license for identification.

[Signature]  
Notary Public  
My Commission Expires \_\_\_\_\_

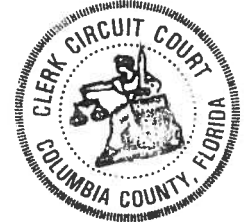


Inst:2006028344 Date:12/01/2006 Time:12:33  
27 DC,P.Dewitt Cason,Columbia County B:1103 P:1634

STATE OF FLORIDA, COUNTY OF COLUMBIA  
I HEREBY CERTIFY, that the above and foregoing  
is a true copy of the original filed in this office.  
P. DEWITT CASON, CLERK OF COURTS

By Sharon Feagle  
Deputy Clerk

Date 12-01-2006



# COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787  
PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

## Addressing Maintenance

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

DATE REQUESTED: 12/27/2006      DATE ISSUED: 12/27/2006

### ENHANCED 9-1-1 ADDRESS:

767      NW      BRIDGEWATER      TER  
LAKE CITY      FL      32055  
PROPERTY APPRAISER PARCEL NUMBER:  
24-3S-16-02275-117

### Remarks:

LOT 17 COBBLESTONE UNIT 1

Address Issued By: \_\_\_\_\_

  
Columbia County 9-1-1 Addressing / GIS Department

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

Approved Address

558

DEC 27 2006

911Addressing/GIS Dept

MEMBER OF  
The  
North Central  
Florida Water  
Well

**Clyatt Well Drilling, Inc.**  
(Established in 1971)  
POST OFFICE BOX 180  
WORTHINGTON SPRINGS, FLORIDA 32697

K. Melaine  
"Red" Clyatt

Telephone Number (386)496-2488  
FAX Number (386)496-4640

June 18, 2002

Columbia County Building Department  
Post Office Box 1529  
Lake City, Florida 32056

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the above-referenced well:

Size of Pump Motor:	1-1/2 Horse Power
Size of Pressure Tank:	220 Gallon Equivalent
Cycle Stop Valve Used:	No

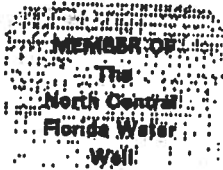
Should you require any additional information, please do not hesitate to contact us.

Respectfully,

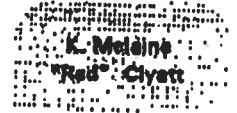
**CLYATT WELL DRILLING, INC.**



K. Melaine "Red" Clyatt  
President



**Clyatt Well Drilling, Inc.**  
(Established in 1971)  
POST OFFICE BOX 180  
WORTHINGTON SPRINGS, FLORIDA 32697



Telephone Number (386)496-2488  
FAX Number (386)496-4640

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**PUMP AND TANK SPECIFICATIONS FOR  
STANDARD 4" RESIDENTIAL WELLS**

**PUMPS**

1 Horse Power Submersible Pump  
20 Gallons Per Minute  
Voltage: 240  
Phase: (Single) 1

1.5 Horse Power Submersible Pump  
25 Gallons Per Minute  
Voltage: 240  
Phase: (Single) 1

**TANK**

WF-255 Captive Air Tank  
Capacity 81 Gallons  
Equivalent 220 Gallons  
Draw Down 25 Gallons



STATE OF FLORIDA AC# 2938223  
DEPARTMENT OF BUSINESS AND  
PROFESSIONAL REGULATION

CGC022934 11/02/06 067016234

CERTIFIED GENERAL CONTRACTOR  
MARSHALL, WILMER KENT  
MARLIN CONSTRUCTION OF INDIAN RIV

IS CERTIFIED under the provisions of Ch. 489 FS.  
Expiration date: AUG 31, 2008 L06110202429

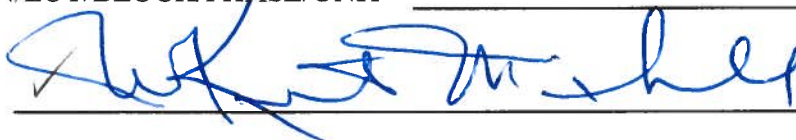
# Columbia County Building Department Culvert Permit

## Culvert Permit No. 000001292

DATE 01/08/2007 PARCEL ID # 24-3S-16-02275-117  
APPLICANT W. KENT MARSHALL PHONE 386.754.1985  
ADDRESS POB 2074 LAKE CITY FL 32056  
OWNER KATHY E. GALLIN PHONE 386.754.2652  
ADDRESS 767 NW BRIDGEWATER TERRACE LAKE CITY FL 32055  
CONTRACTOR W. KENT MARSHALL PHONE 386.754.1985  
LOCATION OF PROPERTY LAKE JEFFERY ROAD TO COBBLESTONE S.D, TR TO BRIDGEWATER  
@ THE END OF CUL-DE-SAC, LAST LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COBBLESTONE 17 1

SIGNATURE



### INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other \_\_\_\_\_

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED  
DURING THE INSTALATION OF THE CULVERT.**

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

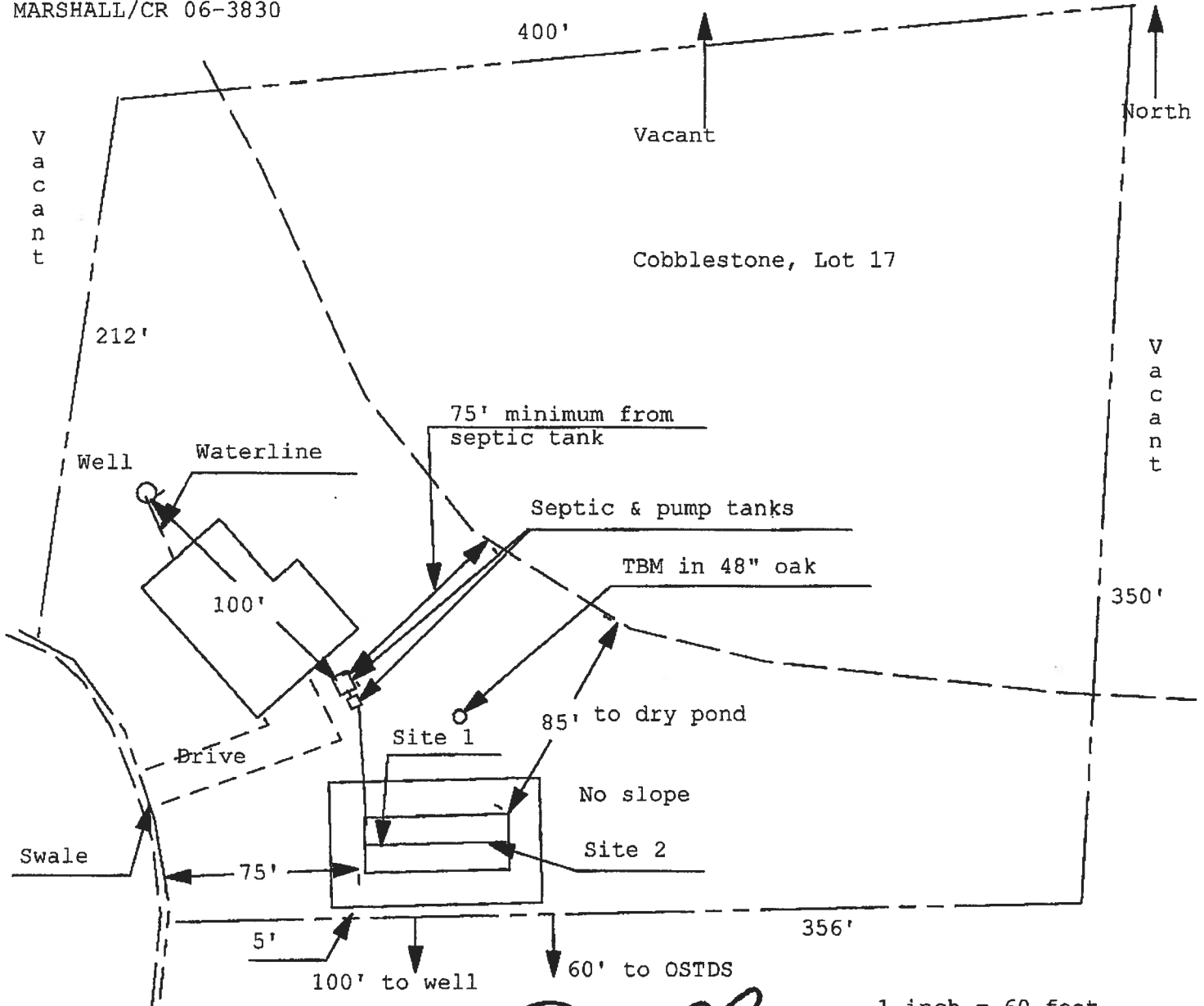
**Amount Paid** 25.00



**Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan**  
**Permit Application Number:** 06-01134N

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

MARSHALL/CR 06-3830



Site Plan Submitted By Paul Lopez Date 12/21/06  
 Plan Approved  Not Approved  Date \_\_\_\_\_

By Sally Maddy **Columbia CHD** CPHU

Notes: 1-4-07

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 83.7**

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

		# 25383
<p>1. New construction or existing <span style="float: right;">New</span> <input type="checkbox"/></p> <p>2. Single family or multi-family <span style="float: right;">Single family</span> <input type="checkbox"/></p> <p>3. Number of units, if multi-family <span style="float: right;">1</span> <input type="checkbox"/></p> <p>4. Number of Bedrooms <span style="float: right;">3</span> <input type="checkbox"/></p> <p>5. Is this a worst case? <span style="float: right;">Yes</span> <input type="checkbox"/></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">2604 ft<sup>2</sup></span> <input type="checkbox"/></p> <p>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</p> <p style="margin-left: 20px;">a. U-factor: <span style="float: right;">Description Area</span></p> <p style="margin-left: 40px;">(or Single or Double DEFAULT) 7a. (Dble Default) 362.0 ft<sup>2</sup> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. SIGGC:</p> <p style="margin-left: 40px;">(or Clear or Tint DEFAULT) 7b. (Clear) 362.0 ft<sup>2</sup> <input type="checkbox"/></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation <span style="float: right;">R-0.0, 257.0(p) ft</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior <span style="float: right;">R-13.0, 2164.0 ft<sup>2</sup></span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Frame, Wood, Adjacent <span style="float: right;">R=13.0, 448.0 ft<sup>2</sup></span> <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">d. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic <span style="float: right;">R-30.0, 2604.0 ft<sup>2</sup></span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Under Attic <span style="float: right;">R-19.0, 144.0 ft<sup>2</sup></span> <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Garage <span style="float: right;">Sup. R-6.0, 344.0 ft</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit <span style="float: right;">Cap: 52.0 kBtu/hr</span> <input type="checkbox"/></p> <p style="margin-left: 40px;">SEER: 13.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump <span style="float: right;">Cap: 51.0 kBtu/hr</span> <input type="checkbox"/></p> <p style="margin-left: 40px;">HSPF: 7.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance <span style="float: right;">Cap: 50.0 gallons</span> <input type="checkbox"/></p> <p style="margin-left: 40px;">EF: 0.92 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. Conservation credits <input type="checkbox"/></p> <p style="margin-left: 40px;">(HR-Heat recovery, Solar DHP-Dedicated heat pump)</p> <p>15. HVAC credits <input type="checkbox"/></p> <p style="margin-left: 20px;">(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>	

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: [Signature] Date: 12-27-06

Address of New Home: 767 NW BRIDGEWATER TERR City/FL Zip: LAKE CITY, FL



*\*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>®</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 2B-4. EnergyGauge<sup>®</sup> (Version: FLRCSB v4.0)

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

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

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joist members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
----------------	-----------

BASE				AS-BUILT							
<b>WATER HEATING</b>											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit	= Total Multiplier
3		2635.00	7905.0	50.0	0.92	3		1.00	2635.00	1.00	7905.0
<i>As-Built Total:</i>											7905.0

CODE COMPLIANCE STATUS											
BASE					AS-BUILT						
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
15170		14427		7905	37502	11749		16065		7905	35719

PASS



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
----------------	-----------

BASE			AS-BUILT					
<b>Winter Base Points: 22994.2</b>			<b>Winter As-Built Points: 26390.2</b>					
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
22994.2	0.6274	14426.6	26390.2	1.000	(1.069 x 1.169 x 1.00)	0.487	1.000	16065.4
			(sys 1: Electric Heat Pump 51000 btuh, EFF(7.0) Ducts:Unc(S),Unc(R),Ger(AH),R6.0)					
			<b>26390.2</b>	<b>1.00</b>	<b>1.250</b>	<b>0.487</b>	<b>1.000</b>	<b>16065.4</b>

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
----------------	-----------

BASE	AS-BUILT							
<b>GLASS TYPES</b> .18 X Conditioned X BWPM = Points Floor Area	Overhang Type/SC      Omt   Len   Hgt   Area X WPM X WOF = Point							
.18      2894.0      12.74      5971.5	Double, Clear	E	2.0	6.0	108.0	18.79	1.08	2152.5
	Double, Clear	N	2.0	6.0	60.0	24.58	1.00	1481.6
	Double, Clear	S	2.0	6.0	40.0	13.30	1.26	669.4
	Double, Clear	W	2.0	6.0	154.0	20.73	1.04	3328.5
	<b>As-Built Total:</b>				<b>362.0</b>			<b>7632.0</b>
<b>WALL TYPES</b> Area X BWPM = Points	Type		R-Value		Area X WPM = Points			
Adjacent      448.0      3.60      1612.8	Frame, Wood, Exterior		13.0		2164.0      3.40      7357.6			
Exterior      2164.0      3.70      8006.8	Frame, Wood, Adjacent		13.0		448.0      3.30      1478.4			
<b>Base Total:</b> 2812.0      8618.6	<b>As-Built Total:</b>				<b>2812.0      8838.0</b>			
<b>DOOR TYPES</b> Area X BWPM = Points	Type		Area X WPM = Points					
Adjacent      18.0      11.50      207.0	Exterior Insulated		90.0      8.40      756.0					
Exterior      90.0      12.30      1107.0	Adjacent Insulated		18.0      8.00      144.0					
<b>Base Total:</b> 108.0      1314.0	<b>As-Built Total:</b>		<b>108.0      900.0</b>					
<b>CEILING TYPES</b> Area X BWPM = Points	Type		R-Value		Area X WPM X WCM = Points			
Under Attic      2604.0      2.05      5338.2	Under Attic		30.0		2604.0    2.05 X 1.00      5338.2			
	Under Attic		19.0		144.0    2.70 X 1.00      388.8			
<b>Base Total:</b> 2604.0      5338.2	<b>As-Built Total:</b>				<b>2748.0      5727.0</b>			
<b>FLOOR TYPES</b> Area X BWPM = Points	Type		R-Value		Area X WPM = Points			
Slab      257.0(p)      8.9      2287.3	Slab-On-Grade Edge Insulation		0.0		257.0(p)      18.80      4831.6			
Raised      0.0      0.00      0.0								
<b>Base Total:</b> 2287.3	<b>As-Built Total:</b>				<b>257.0      4831.6</b>			
<b>INFILTRATION</b> Area X BWPM = Points					Area X WPM = Points			
2894.0      -0.50      -1536.4					2894.0      -0.50      -1536.4			

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
----------------	-----------

BASE			AS-BUILT					
<b>Summer Base Points: 35560.5</b>			<b>Summer As-Built Points: 35794.9</b>					
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHRJ)	X Duct Multiplier (Unc(S), Unc(R), Gar(AH), R6.0(INS))	X System Multiplier	X Credit Multiplier	= Cooling Points
<b>35560.5</b>	<b>0.4266</b>	<b>15170.1</b>	<small>(sys 1: Central Unit 52000 Btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)</small> <b>35705</b>	<b>1.00</b> <small>(1.00 x 1.147 x 1.00)</small>	<b>0.263</b>	<b>1.000</b>	<b>1.000</b>	<b>11749.1</b>
<b>35560.5</b>			<b>35794.9</b>	<b>1.00</b>	<b>1.250</b>	<b>0.263</b>	<b>1.000</b>	<b>11749.1</b>

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
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# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

<b>Project Name:</b> COBBLESTONE 17 <b>Address:</b> <b>City, State:</b> <b>Owner:</b> <b>Climate Zone:</b> North	<b>Builder:</b> MATT CASON <b>Permitting Office:</b> <b>Permit Number:</b> <b>Jurisdiction Number:</b>
--	---

<table style="width: 100%; border-collapse: collapse;"> <tr><td>1. New construction or existing</td><td style="text-align: right;">New</td><td style="text-align: right;">_____</td></tr> <tr><td>2. Single family or multi-family</td><td style="text-align: right;">Single family</td><td style="text-align: right;">_____</td></tr> <tr><td>3. Number of units, if multi-family</td><td style="text-align: right;">1</td><td style="text-align: right;">_____</td></tr> <tr><td>4. Number of Bedrooms</td><td style="text-align: right;">3</td><td style="text-align: right;">_____</td></tr> <tr><td>5. Is this a worst case?</td><td style="text-align: right;">Yes</td><td style="text-align: right;">_____</td></tr> <tr><td>6. Conditioned floor area (ft<sup>2</sup>)</td><td style="text-align: right;">2604 ft<sup>2</sup></td><td style="text-align: right;">_____</td></tr> <tr><td>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</td><td></td><td></td></tr> <tr><td>    a. U-factor:</td><td style="text-align: center;">Description Area</td><td></td></tr> <tr><td>        (or Single or Double DEFAULT) 7a. (Dble Default)</td><td style="text-align: right;">362.0 ft<sup>2</sup></td><td style="text-align: right;">_____</td></tr> <tr><td>    b. SHGC:</td><td></td><td></td></tr> <tr><td>        (or Clear or Tint DEFAULT) 7b. (Clear)</td><td style="text-align: right;">362.0 ft<sup>2</sup></td><td style="text-align: right;">_____</td></tr> <tr><td>8. Floor types</td><td></td><td></td></tr> <tr><td>    a. Slab-On-Grade Edge Insulation</td><td style="text-align: right;">R=0.0, 257.0(p) ft<sup>2</sup></td><td style="text-align: right;">_____</td></tr> <tr><td>    b. N/A</td><td></td><td style="text-align: right;">_____</td></tr> <tr><td>    c. N/A</td><td></td><td style="text-align: right;">_____</td></tr> <tr><td>9. Wall types</td><td></td><td></td></tr> <tr><td>    a. 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Glass/Floor Area: 0.14	Total as-built points: 35719 Total base points: 37502	PASS
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

**PREPARED BY:** SUNCOAST INSULATORS


**DATE:** 12/21/04

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

**OWNER/AGENT:** \_\_\_\_\_

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

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



**BUILDING OFFICIAL:** \_\_\_\_\_

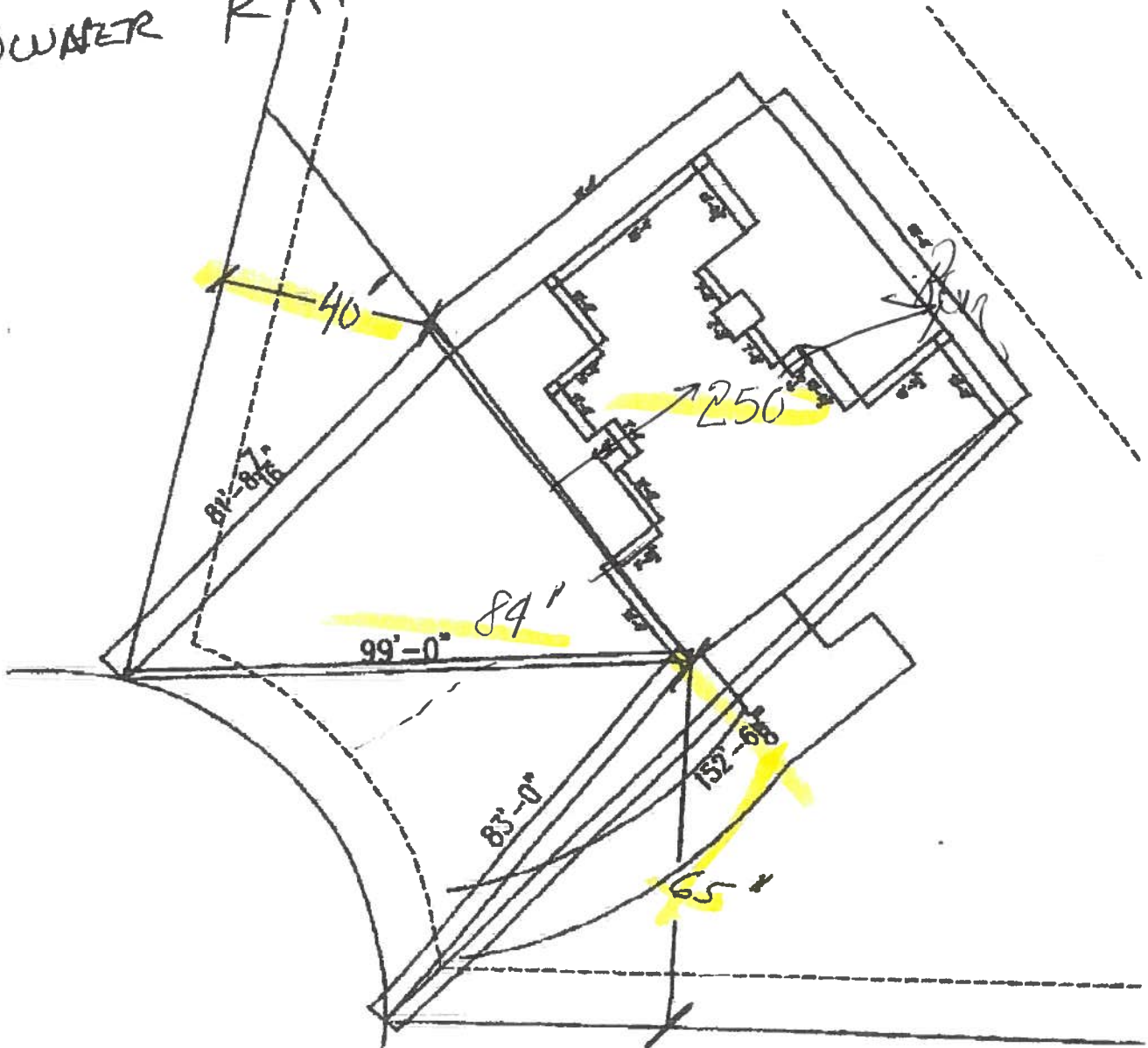
**DATE:** \_\_\_\_\_

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.0)

# MARLIN CONST.

LOT 17 COBBLESTONE  
OWNER KATHY GALLIN

754-1985



# COLUMBIA COUNTY AVENUE

OPEN

## OCCUPANCY

COLUMBIA COUNTY, FLORIDA

### Department of Building and Zoning Inspection

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

Parcel Number 24-3S-16-02275-117

Building permit No. 000025383

Use Classification SFD/UTILITY

Fire: 51.36

Permit Holder W. KENT MARSHALL

Waste: 134.00

Owner of Building KATHY E. GALLIN

Total: 185.36

Location: 767 NW BRIDGEWATER TERRACE

Date: 02/13/2008

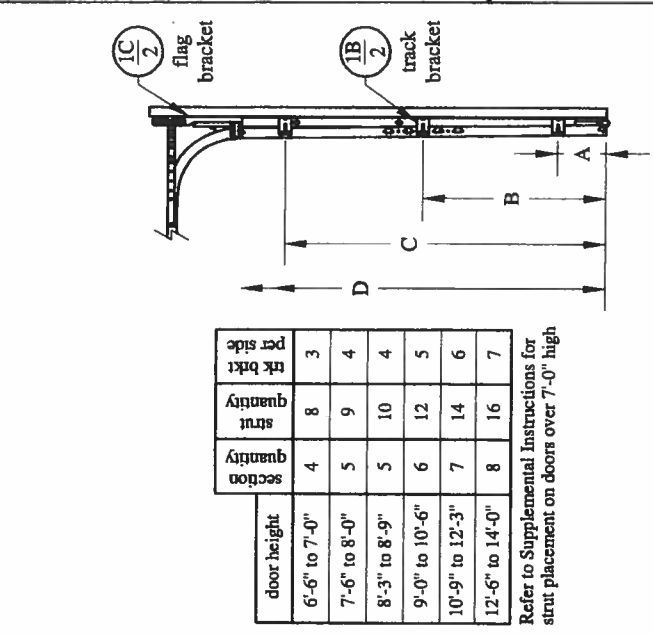
Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)



Door Model	Gauge	Decimal
2250/2251	25	.0185
2240/2241	24	.0225

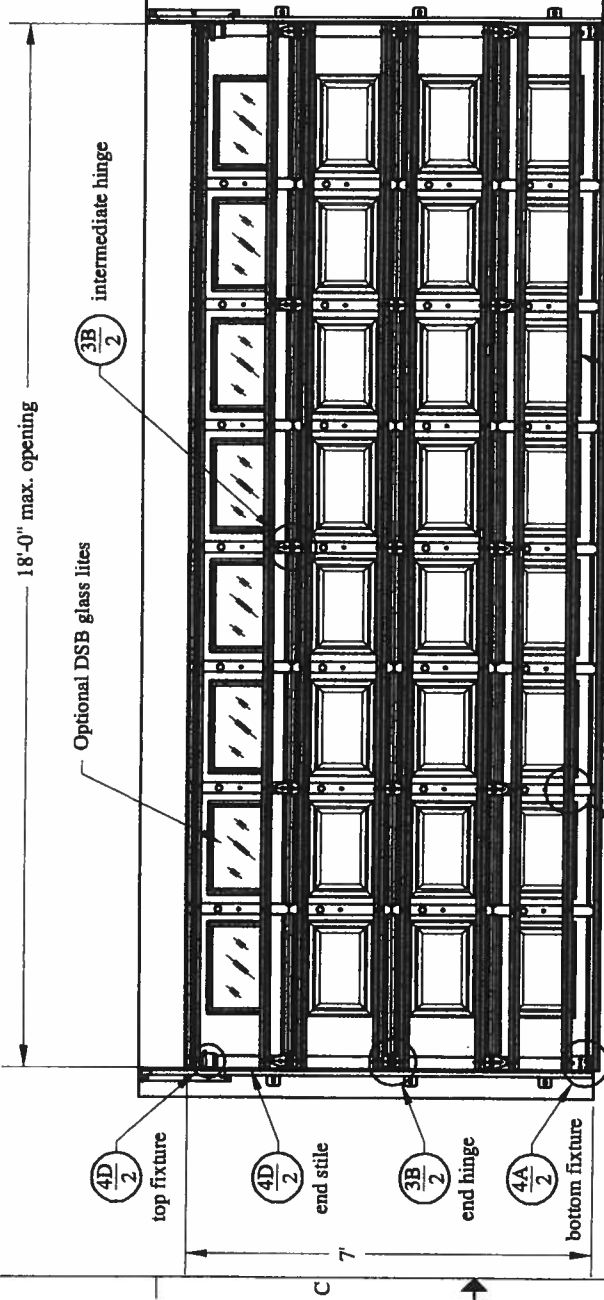


door height	section quantity	strut quantity	hkt. per side
6'-6" to 7'-0"	4	8	3
7'-6" to 8'-0"	5	9	4
8'-3" to 8'-9"	5	10	4
9'-0" to 10'-6"	6	12	5
10'-9" to 12'-3"	7	14	6
12'-6" to 14'-0"	8	16	7

Refer to Supplemental Instructions for strut placement on doors over 7'-0" high

Track Bracket Chart	door height									
	6'-6"	6'-9"	7'-0"	7'-6"	7'-9"	8'-0"	8'-3"	8'-6"	8'-9"	9'-0"
D	n/a	n/a	n/a	72"	69"	72"	81"	84"	87"	
C	60"	63"	66"	58"	55"	58"	60"	63"	66"	
B	35"	35"	38"	34"	31"	34"	32"	35"	38"	
A	10"	7"	10"	10"	7"	10"	4"	7"	10"	

Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.



This door has been tested in accordance with ANSI/DASMA 108-2002  
 Design Pressure (DP): 18.5 psf / 20.7 neg  
 Test Pressure (TP): 27.8 psf / 31.1 neg

Per 2004 FBC Table 1609.6E, DP meets or exceeds basic wind speed of;  
 V = 110 MPH for Exposure B and mean roof height of 30' or less  
 V = 93 MPH for Exposure C and mean roof height of 30' or less

Maximum door size: 18'-0" wide by 14'-0" tall

Glazing and door have not been tested for windborne debris.

Wood buck and supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing.

If door is not electrically operated, a lock must be installed.

John E. Scates, P.E.  
 1411 LeMay Street #205  
 Carrollton, Texas 75007  
 Florida P.E. # 51737

Professional Engineer's seal provided only for verification of windload construction details

Details on some views may have been omitted for clarity.

The 2x6 vertical wood jambs are to be grade 2 or better Southern Pine. Fasteners may be countersunk to provide a flush mounting surface.

14 gauge (.070) galvanized steel top fixture manufactured by C.H.I. Each fixture attached with four 1/4" x 3/4" screws.

20 gauge (.036) end stile manufactured by C.H.I. Strut, if applicable, not shown for clarity.

2" x 7/16" (nominal) Stop molding required (not supplied by C.H.I.)

12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

2" x .051 min. galvanized steel track fastened to track brackets. Each track bracket attached with one 1/4" x 5/8" track bolt and nut.

20 gauge (.036) center stile manufactured by C.H.I.

End Hinge  
16 gauge (.058) galvanized steel end hinge fastened to section with four 1/4" x 3/4" screws.

Intermediate Hinge  
18 gauge (.047) galvanized steel intermediate hinge fastened to section with four 1/4" x 3/4" screws.

2" steel track roller.

12 gauge (.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

Vinyl weatherstrip  
push nut  
Aluminum extrusion

20 gauge (.034) 33 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.

Professional Engineer's seal provided only for verification of windload construction details

12 gauge (.086) galvanized steel flag bracket fastened to wood jamb with three 5/16" x 1-5/8" wood lag screws.

Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

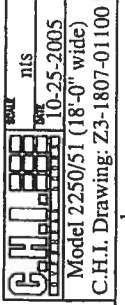
Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts.

12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.

Design Load: 18.5 pos / 20.7 neg  
Test Load: 27.8 pos / 31.1 neg  
page 2 of 2

John E. Scates, P.E.  
1411 LeMay Street #205  
Carrollton, Texas 75007  
Florida P.E. # 51737





March 6, 2002

## Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:

ASTM D3462

PA 100 (110 mph uplift and wind driven rain resistance)

PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 –

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.04

Prestique I 35 or Prestique I\* –

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection\* –

PA 100 = 4 nails

PA 107 = 4 nails

MD NOA# = 01-1226.03

Capstone\*

PA 100 = 4 Nails

PA 107 = 4 Nails

MD NOA# = 01-0523.01

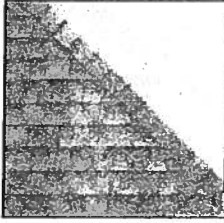
\* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

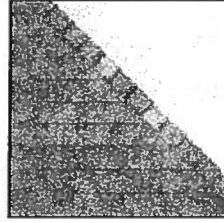
Mike Reed – Technical Manager  
(205) 342-0287

or

Daniel DeJarnette – QA Engineer  
(205) 342-0298



**PRESTIQUE®  
HIGH DEFINITION®**



**RAISED PROFILE™**

*Prestique Plus High Definition  
and Prestique Gallery Collection\**

Product size	13 1/4" x 39 1/2"	50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	11	

*Raised Profile*

Product size	13 1/4" x 38 1/2"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

*Prestique I High Definition*

Product size	13 1/4" x 39 1/2"	40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	14	

**HIP AND RIDGE SHINGLES**

*Seal-A-Ridge with FLX™*  
 Size: 12" x 12"  
 Exposure: 6 1/2"  
 Pieces/Bundle: 45  
 Coverage: 4 Bundles = 100 linear feet

*Prestique High Definition*

Product size	13 1/4" x 38 1/2"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

*Elk Starter Strip*  
 52 Bundles/Pallet  
 18 Pallets/Truck  
 936 Bundles/Truck  
 19 Pieces/Bundle  
 1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakedown, Sablewood, Hickory, Barkwood\*\*, Forest Green, Wedgewood\*\*, Birchwood\*\*, Sandalwood, Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

\*See actual limited warranty for conditions and limitations.  
 \*\*Check for product availability.

**SPECIFICATIONS**

**SCOPE:** Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula FLX.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

**PREPARATION OF ROOF DECK:** Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

**MATERIALS:** Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater; apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula FLX with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All

warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

**SOUTHEAST &  
ATLANTIC OFFICE:**  
800.945.5551

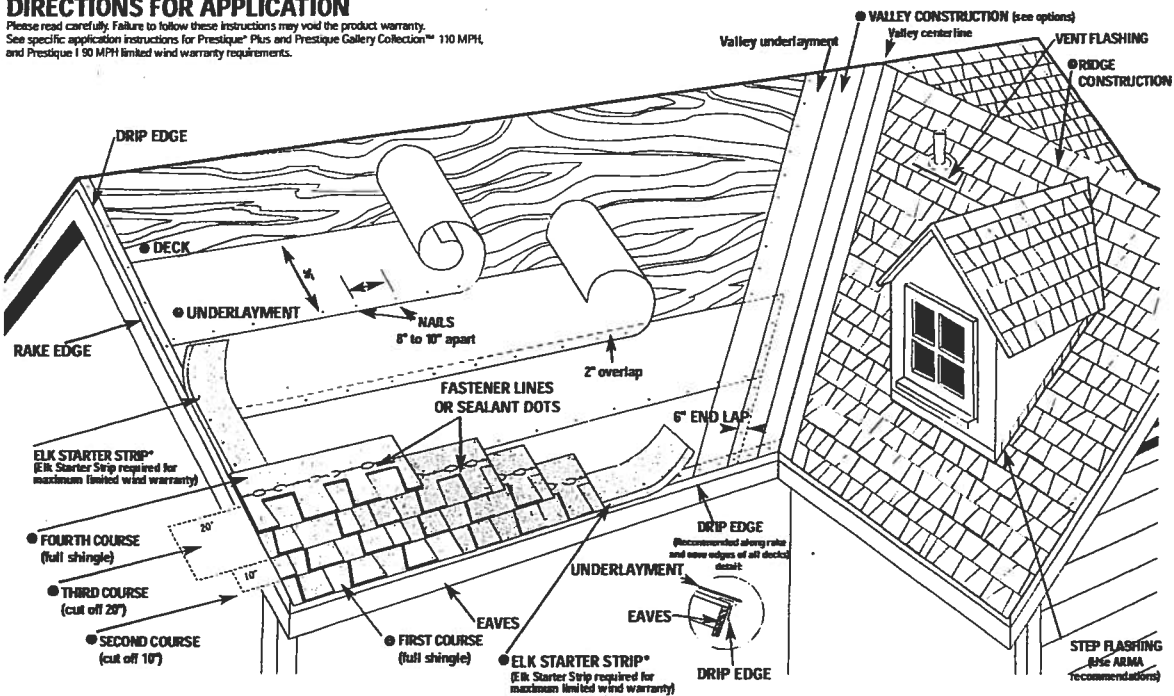
**CORPORATE HEADQUARTERS:**  
800.354.7732

**PLANT LOCATION:**  
800.945.5545

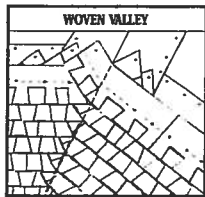


# DIRECTIONS FOR APPLICATION

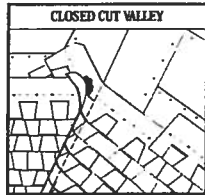
Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestique™ Plus and Prestique Gallery Collection™ 110 MPH and Prestique 1 90 MPH limited wind warranty requirements.



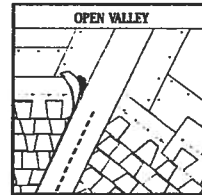
● VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.



VALLEY CENTER LINE



VALLEY CENTER LINE



VALLEY CENTER LINE

## DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingles.

### ● DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

### ● UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 15". Begin by fastening a 18" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

**EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)**

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge up to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

### ● STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side. Shingles may be applied with a course alignment of 45° on the roof.

### ● FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course.

### ● SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

### ● THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

### ● FOURTH COURSE

Start at the rake and continue with full shingles across roof.

### FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

### ● VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 5" of valley center.

### ● RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge™ with formula FLX™ (See ridge package for installation instructions.)

### FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

**NAILS:** Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for re-roofs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

**STAPLES:** Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

### MANSARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

### LIMITED WIND WARRANTY

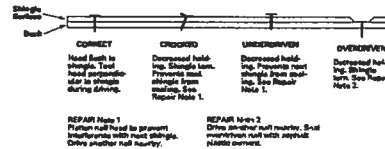
For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.

For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique 1, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique 1 shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4" of an inch.



### HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified. All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

**CAUTION TO WHOLESALE:** Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

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## Product Approval USER: Public User

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- ▶ COMMUNITY PLANNING
- ▶ HOUSING & COMMUNITY DEVELOPMENT
- ▶ EMERGENCY MANAGEMENT
- ▶ OFFICE OF THE SECRETARY

FL #	FL1476-R2
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Elk Corporation
Address/Phone/Email	4600 Stillman Blvd. Tuscaloosa, AL 35401 (205) 342-0298 daniel.dejarnette@elkcorp.com
Authorized Signature	Daniel DeJarnette daniel.dejarnette@elkcorp.com
Technical Representative	Daniel DeJarnette
Address/Phone/Email	4600 Stillman Blvd Tuscaloosa, AL 35401 (205) 342-0298 daniel.dejarnette@elkcorp.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard) **Standard**  
 ASTM D3462  
 TAS 107

Equivalence of Product Standards Certified By

Product Approval Method Method 1 Option A

Date Submitted 09/20/2005  
 Date Validated 09/27/2005  
 Date Pending FBC Approval 09/29/2005  
 Date Approved 10/11/2005

Summary of Products		
FL #	Model, Number or Name	Description
1476.1	Elk Prestique Shingles	Laminated Asphalt Shingles
<b>Limits of Use (See Other)</b> <b>Approved for use in HVHZ:</b> <b>Approved for use outside HVHZ:</b> <b>Impact Resistant:</b> <b>Design Pressure: +/-</b> <b>Other:</b> 1) All FBC sections apply except for those pertaining to Miami - Dade and Broward Counties 2) Refer to NOA # 0500706.07 for use in Dade and Broward Counties		<b>Certification Agency Certificate</b> <b>Installation Instruction</b> <u>PTID 1476 R2 I Specs</u> <u>PTID 1476 R2 I UL Pre</u> Verified By:

Back

Next

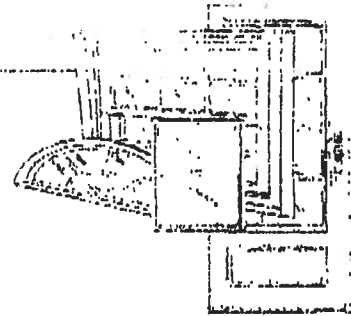
DCA Administration

Department of Community Affairs  
 Florida Building Code Online  
 Codes and Standards  
 2555 Shumard Oak Boulevard  
 Tallahassee, Florida 32399-2100  
 (850) 487-1824, Suncom 277-1824, Fax (850) 414-8436  
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 Product Approval Accepts:



# CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822  
(407) 384-7744 • Fax (407) 384-7757  
Web Site: www.ctlarch.com  
E-mail: ctlarch.com



Report Number: CTLA-1038W-2-AWT  
Report Date: March 4, 2003

## STRUCTURAL PERFORMANCE TEST REPORT

Client: ACTION WINDOW TECHNOLOGY INC.  
1312 W. CROSBY ROAD  
CARROLLTON, TX 75006

Product Type and Series: AWT Series 3180 Vinyl Fin Frame Picture Window F-R80 (48" x 72")

Test Specifications: AAMA/NWWDA 101/1.S 2-97 "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

Frame: Vinyl Fin frame measured 47.50" wide x 71.50" high overall. Mitered corner weld construction. Clear lite measured 44.50" wide x 68.50" high.

Ventilator: N/A

Weather Stripping: N/A

Hardware & Location: N/A

Glazing: 3/4" insulated annealed glass consisting of .1875" glass .375" air space with swiggle .1875" glass. Sash exterior glazed, Fixed lite interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

Sealant: A silicone type sealant was used at frame corners and to seal specimen to test buck.

Weep System: N/A

Muntins: N/A

Reinforcement: N/A

Additional Description: N/A

Screen: N/A

Installation: Twenty-eight (28) 1.75" roofing nails were used to secure the specimen to the wood test buck. Six (6) were located in head and sill measuring 5.50", 13", 20.625", 28.25", 35.875" and 43.50" from left jamb. Eight (8) were located in each jamb measuring 5.50", 14", 22.75", 31.50", 40", 48.75", 57.75" and 66.50" from sill.

Surface Finish: White Vinyl

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

### Performance Test Results

<u>Paragraph No.</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration @ 1.57 psf	ASTM E283-91	.02 cfm/ft <sup>2</sup>	.34 cfm/ft <sup>2</sup>
The tested specimen meets or exceeds the performance levels specified in AAMA/NWWDA 101/IS-2-97. Results recorded in two (2) decimals at the clients request				
2.1.3	Water Resistance @ 5.0 gph/ft <sup>2</sup>	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 13.5 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
2.1.4.2	Uniform Load Structural Permanent Deformation @ 120 psf positive @ 120 psf negative	ASTM E330-90 Ten (10) second load	Neg. Neg.	.192" .192"
2.1.7	Welded Corner Test	AAMA/NWWDA 101/IS2-97	Passed	
2.1.8	Forced Entry Resistance Test D Window Assemblies This specimen as tested complies to a grade 10-T <sup>1</sup> -5 minutes Tools used: A spatula (10.1.1.1) and a piece of stiff wire (10.1.3.2)	ASTM F 588-97	Passed	

**Test Date** January 28, 2003

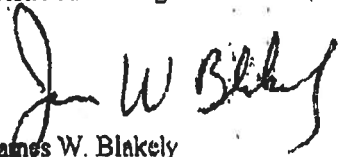
**Test Completion Date:** January 28, 2003

**Remarks:** Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.



James W. Blakely  
Vice President  
Architectural Division

cc: Action Window Technology Inc. (3)  
File (1)

# CERTIFIED TESTING LABORATORIES

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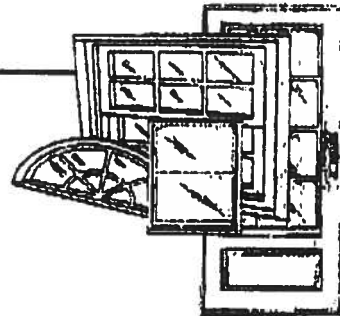
(407) 384-7744 • Fax (407) 384-7751

Web Site: www.ctlarch.com

E-mail: ctlarch.com

Report Number: CTLA-991W-1-AWT

Report Date: February 18, 2003



## STRUCTURAL PERFORMANCE TEST REPORT

**Client:** ACTION WINDOOR TECHNOLOGY INC  
1312 W. CROSBY ROAD  
CARROLLTON, TX 75006

**Product Type and Series:** AWT Series 3950 Vinyl Fin Frame Single Hung Window with Reinforced Sash Top Rail, Stiles & Meeting Rail H-R40 (36" x 72")

**Test Specifications:** AAMA/NWDA 101/I.S.2-97 "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

**Frame:** Vinyl Fin frame measured 35.50" wide x 71.50" high overall. Mitered corner weld construction. Fixed meeting rail secured to each frame jamb with one (1) #8 x 2" PH., PH. screw.

**Ventilator:** Operable sash measured 33.375" wide x 35.25" high overall. Mitered corner weld construction. Clear lite measured 31.5625" high x 33.5625" high. Fixed lite measured 32.50" wide x 33.4375" high.

**Weather Stripping:** One (1) strip of woolpile .220" high with integral plastic fin frame sill. One (1) strip of woolpile .250" high with integral plastic fin sash top rail exterior. One (1) strip of woolpile .250" high each sash stile exterior leg. One (1) strip of woolpile .250" high with integral plastic fin each sash stile interior leg. One (1) strip of foam filled bulb weatherstrip sash bottom rail.

**Hardware & Location:** Two (2) metallic sweep locks located on sash top rail approx 8" from each end of rail. Two (2) metallic keepers located on fixed meeting rail. One (1) tilt latch at each end of sash top rail. One (1) block and tackle at each frame jamb. One (1) pivot bar at each end of sash bottom rail.

**Glazing:** 5/8" insulated annealed glass consisting of .125" glass .375" air space with swiggle .125" glass. Sash exterior glazed. Fixed lite interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

**Sealant:** A silicone type sealant was used on sill and to seal specimen to test buck.

**Weep System:** Weep notch measuring 2.25" x leg height located each end of sill weeping to the exterior.

**Muntins:** N/A

**Reinforcement:** Fixed meeting rail has one (1) piece of extruded aluminum reinforcement measuring .662" wide x .755" high x .099" thick x full length. Top rail, and sash stiles has one (1) piece of extruded aluminum reinforcement measuring .590" wide x .995" high x .115" thick x full length.

**Additional Description:**    N/A

**Screen:**      Roll formed aluminum frame, fiberglass mesh with vinyl spline. Two (2) metallic retainer clips and two (2) metallic plungers. Corners secured with plastic corner keys

**Installation:**      Twenty-six (26) 1.75" roofing nails were used to secure the specimen to the wood test buck. Five (5) were located in head and sill measuring 4", 13", 21", 29", and 33" from left jamb. Eight (8) were located in each jamb measuring 4.50", 14.25", 24", 32.75", 42", 57.25", 60.50" and 70" from sill.

**Surface Finish:**    White Vinyl

**Comment:**      Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

**Performance Test Results**

<u>Paragraph No</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.18 cfm/ft <sup>2</sup>	.34 cfm/ft <sup>2</sup>
The tested specimen meets or exceeds the performance levels specified in AAMA/NWWDA 101/1.S.2-97. Results recorded in two (2) decimals at the clients request. Unit tested with shims installed under cam locks.				
2.1.3	Water Resistance @ 5.0 gph/ft <sup>2</sup>	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6.75 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
Unit tested with insect screen.				
2.1.3	Water Resistance @ 5.0 gph/ft <sup>2</sup>	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
Unit tested without insect screen.				
2.1.4.2	Uniform Load Structural Permanent Deformation @ 60 psf positive @ 60 psf negative	ASTM E330-90 Ten (10) second load	.015" .005"	.134" .134"
2.1.8	Forced Entry Resistance	AAMA 1302.5-76		
	Test A		0"	1/2"
	Test B		0"	1/2"
	Test C		0"	1/2"
	Test D, E and F		0"	1/2"
	Test G		0"	1/2"

Performance Test Results (continued)

<u>Paragraph No</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
2.2.2.5.1	Operating Force Sash	AAMA/NWWDA 101/1.S.2-97	18 lbs.	30 lbs.
2.2.2.5.2	Deglazing	ASTM E987-88		
	Top Rail 70 lbs.		.039" = 7.8% < 100%	
	Bottom Rail 70 lbs.		.038" = 7.6% < 100%	
	Left Side 50 lbs.		.050" = 10% < 100%	
	Right Side 50 lbs.		.035" = 7.0% < 100%	
2.1.7	Welded Corner Test	AAMA/NWWDA 101/ IS2-97		Passed

Test Date November 21, 2002

Test Completion Date: November 21, 2002

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

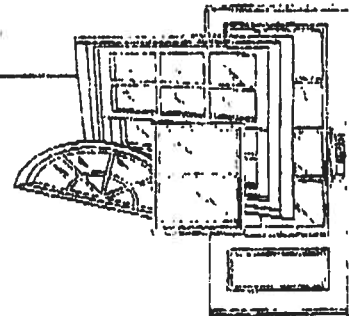
Certified Testing Laboratories, Inc.

James W. Blakely  
Vice President  
Architectural Division

cc: Action Window Technology Inc. (3)  
File (1)

# CERTIFIED TESTING LABORATORIES

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(407) 384-7744 • Fax (407) 384-7751  
Web Site: www.ctlarch.com  
E-mail: ctlarch.com



Report Number: CTLA-1038W-AWT  
Report Date: February 19, 2003

## STRUCTURAL PERFORMANCE TEST REPORT

**Client:** ACTION WINDOW TECHNOLOGY INC.  
1312 W. CROSBY ROAD  
CARROLLTON, TX 75006

**Product Type and Series:** AWT Series 3950 Vinyl Fin Frame Single Hung Window with Transom and Reinforced Meeting Rail & Top Rail (36" x 72") Design Pressure 45

**Test Specifications:** ASTM E 283-91 "Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen."  
ASTM E 547-93 "Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference"  
ASTM E 331-93 "Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential."  
ASTM E 330-90 "Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference."

**Frame:** Vinyl fin frame measured 35.50" wide x 71.50" high overall. Mitered corner weld construction. Fixed meeting rail secured to each frame jamb with one (1) #8 x 2" PH., PH. screw. Transom bottom rail secured to each frame jamb with four (4) #8 x 2" PH., PH. screws

**Ventilator:** Operable sash measured 33.375" wide x 29.25" high overall. Mitered corner weld construction. Clear lite measured 31.5625" high x 27.5625" high. Fixed lite measured 32.50" wide x 27.4375" high. Transom lite measured 32.50" wide x 8.50" high.

**Weather Stripping:** One (1) strip of woolpile .220" high with integral plastic fin frame sill. One (1) strip of woolpile .250" high with integral plastic fin sash top rail exterior. One (1) strip of woolpile .250" high each sash stile exterior leg. One (1) strip of woolpile .250" high with integral plastic fin each sash stile interior leg. One (1) strip of foam filled bulb weatherstrip sash bottom rail.

**Hardware & Location:** Two (2) metallic sweep locks located on sash top rail approx 8" from each end of rail. One (1) tilt latch at each end of sash top rail. One (1) block and tackle at each frame jamb. One (1) pivot bar at each end of sash bottom rail.

**Glazing:** 5/8" insulated annealed glass consisting of .125" glass .375" air space with swiggle .125" glass. Sash exterior glazed. Fixed and transom lites interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

- Sealant:** A silicone type sealant was used at sill corners and to seal specimen to test buck.
- Weep System:** Weep notch measuring 2.25" x leg height located each end of sill weeping to the exterior.
- Muntins:** N/A
- Reinforcement:** Fixed meeting rail has one (1) piece of extruded aluminum reinforcement measuring .662" wide x .755" high x .099" thick x full length. Top rail has one (1) piece of extruded aluminum reinforcement measuring .590" wide x .995" high x .115" thick x full length.
- Additional Description:** N/A
- Screen:** Roll formed aluminum frame, fiberglass mesh with vinyl spline. Two (2) metallic retainer clips and two (2) metallic plungers. Corners secured with plastic corner keys
- Installation:** Twenty-six (26) 1.75" roofing nails were used to secure the specimen to the wood test buck. Five (5) were located in head and sill measuring 4", 13", 21", 29", and 33" from left jamb. Eight (8) were located in each jamb measuring 4", 14.25", 24", 32.75", 42", 51", 60" and 69" from sill.
- Surface Finish:** White Vinyl
- Comment:** Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

### Performance Test Results

<u>Paragraph No</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.28 cfm/ft <sup>2</sup>	.34 cfm/ft <sup>2</sup>
The tested specimen meets or exceeds the performance levels specified in AAMA/NWWDA 101/1.5.2-97. Results recorded in two (2) decimals at the clients request.				
2.1.3	Water Resistance @ 5.0 gph/ft <sup>2</sup>	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6.75 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
Unit tested with and without insect screen.				
2.1.4.2	Uniform Load Structural Permanent Deformation	ASTM E330-90 Ten (10) second load		
DP= +45	@ 67.5 psf positive		.019"	.142"
DP= - 45	@ 67.5 psf negative		.009"	.142"

**Test Date** January 27, 2003

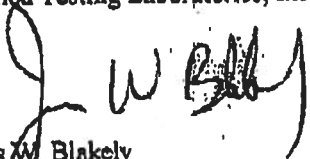
**Test Completion Date:** January 27, 2003

**Remarks:** Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.



James W. Blakely  
Vice President  
Architectural Division

cc: Action Window Technology Inc. (3)  
File (1)

Report Number: ETC-04-034-14644.0  
Test Start Date: 04/10/03  
Test Finish Date: 03/16/04  
Report Date: 03/18/04  
Expiration Date: 03/18/08

**Fenestration Structural Test Report**  
Rendered To:

Vinyl Building Products, Inc.  
One Raritan Road  
Oakland, NJ 07436

Series/Model  
2900 Horizontal Slider (OX)

**Description:** The product tested was a vinyl Horizontal Sliding window. The test specimen was glazed with 5/8-inch thick insulating glass units constructed with double strength annealed glass. The frame size was 69 inches wide by 48 inches high by 2-3/4 inches deep. See Appendix A.

**Test Specification:** ANSI/AAMA/NWDA 101/1.S.2

Summary of Results

Overall Design Pressure	35.0 psf
Air Leakage Rate	0.18 scfm/ft <sup>2</sup>
Maximum Water Pressure Achieved	5.25 psf
Maximum Structural Pressure Achieved	60.0 psf
Forced Entry Resistance - (ASTM)	Grade 10

**Product Designation** H-R35 69 x 48

TEST REPORT

ETC Laboratories

**Specifications:** The test specimen was evaluated in accordance with ANSI/AAMA/NWDA 101/I.S.2 "Voluntary Specification for Aluminum, Vinyl and Wood Windows and Glass Doors". Sections 1, 2 and 4 only. All performance specifications in this standard shall be met for full compliance to the standard and for product certification, labeling or represented as conforming to this standard.

**Referenced Test Reports:** NONE

*Note - The test data in any section below with an "RTR" comment have not been obtained from this specimen but from the Referenced Test Report with a specimen of the same or larger size and identical construction.*

**Design Pressure (DP):** The product tested herein has been first evaluated to the Gateway pressure in the referenced specification for the performance class rating achieved.

Gateway Performance Tests

<u>Specification Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	<u>Air Infiltration - ASTM E283</u> Test Pressure - 1.57 psf The tested specimen exceeds the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2 for air infiltration.	0.18 scfm/ft <sup>2</sup>	0.30 scfm/ft <sup>2</sup>
2.1.3	<u>Water Resistance - ASTM E547</u> 5 gal/hr-ft <sup>2</sup> - 4 Test cycles - 24 Minutes Design Pressure - 15.0 psf Test Pressure - 2.86 psf With and Without Screen	Pass	No Leakage
2.1.4.2	<u>Uniform Structural Load - ASTM E330</u> Design Pressure - 15.0 psf Test Pressure Positive Load - 22.5 psf (150% x DP) Negative Load - 22.5 psf (150% x DP) Note: Measurement taken after load from center of the meeting stile	0.033 in. 0.020 in.	0.177 in. 0.177 in.
2.1.7	<u>Corner Weld</u> Frame - 4 Corners Sashes - 4 Corners	Pass Pass	< 100% < 100%
2.1.8	<u>Forced Entry Resistance - ASTM F588</u> Lock/Tool Manipulation Tests A1 through A7 Lock/Tool Manipulation	Pass Pass Pass	No Entry No Entry No Entry
2.2.1.6.1	<u>Operating Force - No Standardized Method</u> Right Sash - Open/Close	18/18 lbf	20 lbf
2.2.1.6.2	<u>Deglazing - ASTM E987</u> Right Sash: Left Stile - 70 lbf Right Stile - 70 lbf Top Rail - 50 lbf Bottom Rail - 50 lbf	0.0% 0.0% 0.0% 0.0%	<100% <100% <100% <100%

TEST REPORT

ETC Laboratories

**Conditions, Terms, and General Notes Regarding These Tests**

The product tested Has Been compared to the detailed drawings, bill of materials and fabrication information supplied by the client so named herein. Our analysis, which includes dimensional and component description comparisons, indicate the tested product and engineering information supplied by the client "Are Equivalent". See Appendix A. The report and representative samples will be retained for four years from the date of initial test.

These test results were obtained by employing all requirements of the designated test methods with no deviations. The test results and specimen supplied for testing are in compliance with the referenced specifications.

The test results are specific to the product tested by this laboratory and of the sample supplied by the client named herein, and they relate to no other product either manufactured by the client, a Fabricator of the client or of installed field performance.

This report does not constitute an AAMA or NWWDA certified product under the certification programs of these organizations. The program administrator of these programs and organizations may only grant product certification.

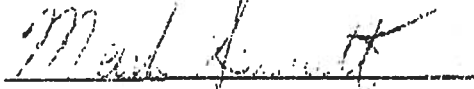
ETC Laboratories makes no opinions or endorsements regarding this product and its performance. This report may not be reproduced or quoted in partial form without the expressed written approval of ETC Laboratories.

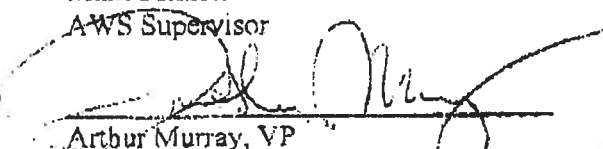
No conclusions of any kind regarding the adequacy of the glass in the test specimen may be drawn from the test. Procedure "A" in ASTM E330 was used for this test.

ETC Laboratories letters, reports, its name or insignia or mark are for the exclusive use of the client so named herein and any other use is strictly prohibited. The report, letters and the name of ETC Laboratories, its seal or mark shall not be used in any circumstance to the general public or in any advertising.

Limitation of Liability: Due diligence was used in rendering this professional opinion. By acceptance of this report, this client agrees to hold harmless and indemnify ETC Laboratories, its employees and offices and owners against all claims and demands of any kind whatsoever, which arise out of or in any manner connected with the performance of work referred to herein.

**FOR ETC LABORATORIES**

  
 Mark Sennett  
 AWS Supervisor

  
 Arthur Murray, VP  
 Manager, Wind Engineering Laboratory

**Optional Performance Tests**

The manufacturer specified herein has successfully achieved all the required criteria in Section 2 of the referenced specification for the Gateway size of the achieved Performance Rating and has further successfully tested the product to higher performance levels as indicated below.

**Design Pressure (DP)**: The product tested herein has been additionally evaluated to the Design Pressure referenced below.

<u>Specification Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
4.3	<u>Water Resistance - ASTM E547</u> 5 gal/hr-ft <sup>2</sup> - 4 Test cycles - 24 Minutes Design Pressure - 35.0 psf Test Pressure - 5.25 psf (15% x DP) With and Without Screen	Pass	No Leakage
4.4	<u>Uniform Structural Load - ASTM E330</u> Design Pressure - 40.0 psf Test Pressure Positive Load - 60.0 psf (150% x DP) Negative Load - 60.0 psf (150% x DP) Note: Measurement taken after load from center of meeting stile	0.069 in. 0.066 in.	0.177 in. 0.177 in.



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

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

Premdor Entry Systems  
911 E. Jefferson, P.O. Box 76  
Pittsburgh, KS 66762

CONTRACTOR LICENSING SECTION  
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION  
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION  
(305) 375-2902 FAX (305) 372-6319

Your application for Notice of Acceptance (NOA) of:  
**Entergy 6-8 S/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door**  
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.23  
EXPIRES: 04/02/2006

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL  
CONDITIONS  
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No: 01-0314.23

APPROVED :

JUN 05 2001

EXPIRES :

April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This renews the Notice of Acceptance No. 00-0321.25 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The Series Entergy 6-8 S/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1029-EM-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.
- 3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

- 4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters):
- 4.2.1 Door: the installation of this unit will not require a hurricane protection system.
- 4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. LABELING

- 5.1 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

  
Manuel Perez, P.E. Product Control Examiner  
Product Control Division

Premdor Entry Systems

ACCEPTANCE No. 01-0314.23

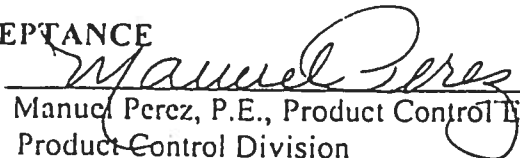
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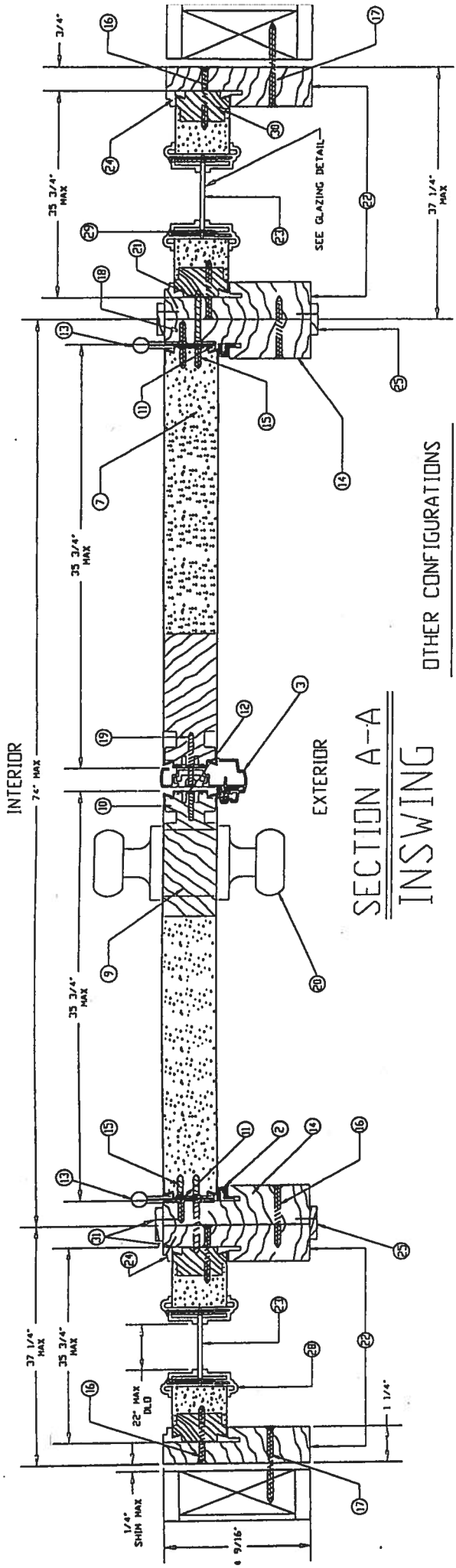
EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

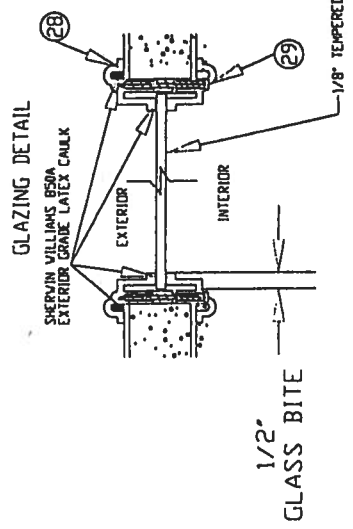
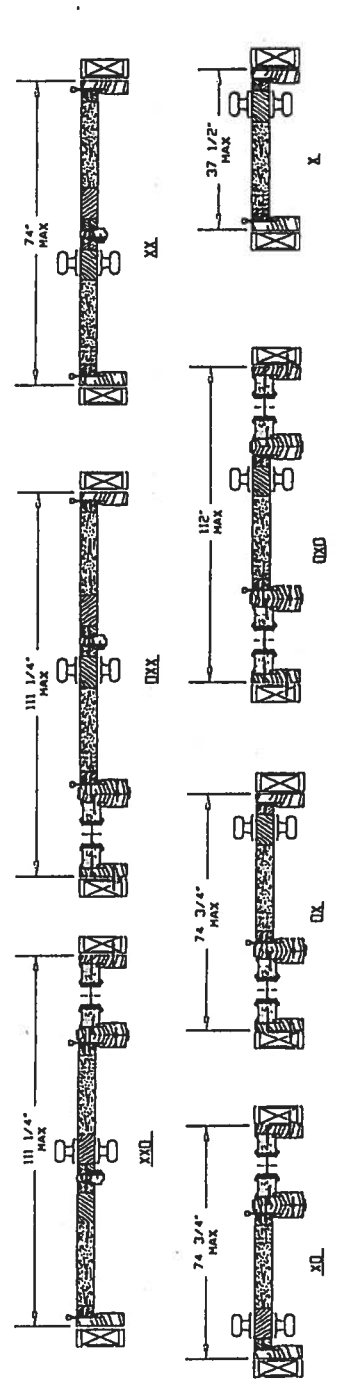
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

  
Manuel Perez, P.E., Product Control Examiner  
Product Control Division



OTHER CONFIGURATIONS



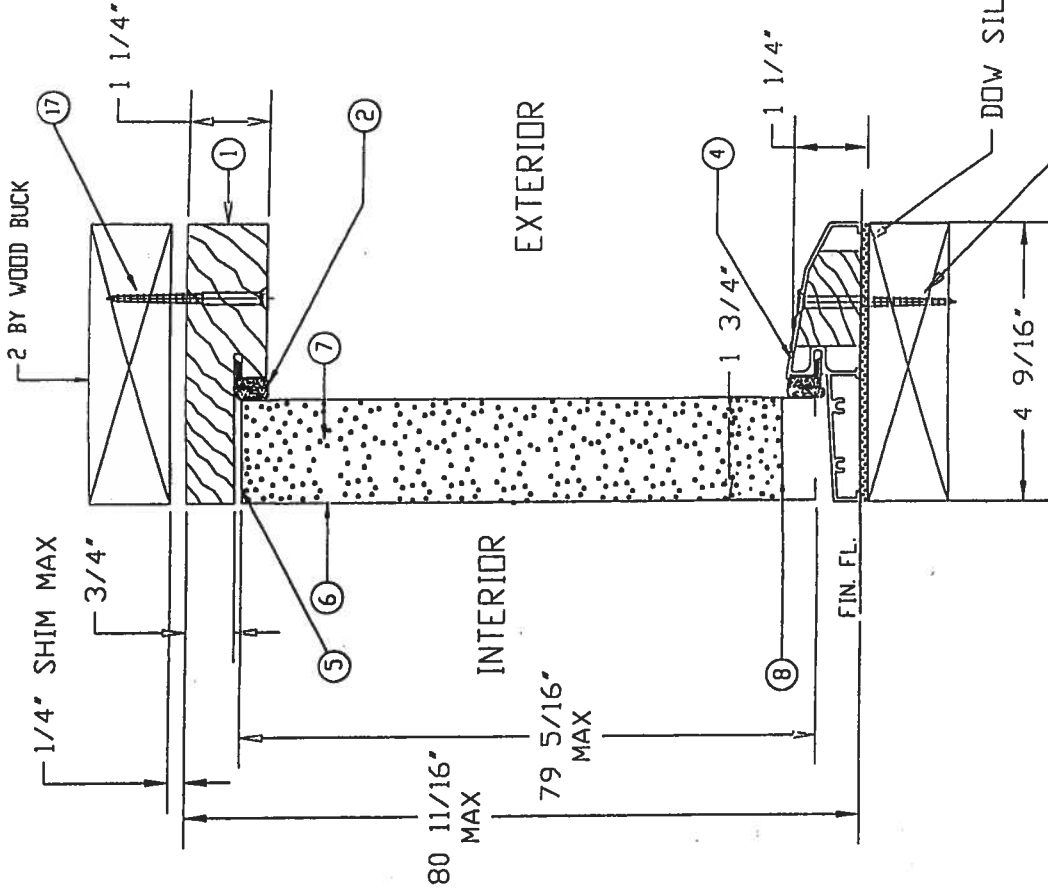
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C	BASE COUNTY MODIFICATIONS	DATE
B	AJDED PAGE 5 (COLOR OPTIONS)	DATE
A	ADD SCREWS TO LITE FRAMES & ADD OTHER COOR CONFIGURATIONS	DATE
	REVISIONS	DATE
	DATE	BY

31-1029-EM-1  
SHEET 2 OF 6  
REVISION 11/11/01 C

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
1	WOOD HEAD JAMB	EM-14	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
2	COMPRESSION WEATHERSTRIP	EM-25	LOCKSCREEN BRAND LOWSEAL 9650-30000Z
3	ALUMINUM ASTRAHAL	EM-12	PREMIOR BRAND OR EQUIVALENT - 5/8" ALUMINUM_ASTRAG
4	ALUMINUM-BUMPER THRESHOLD	EM-15	PREMIOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
5	TOP CHANNEL	EM-08	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
6	STEEL SKIN	26 ga. C107 x .084	MAX 100 STITCHES PER LINE MAX 1000 STITCHES PER FOOT MAX 1000 STITCHES PER FOOT MAX 1000 STITCHES PER FOOT
7	POLYURETHANE FOAM CORE	BASF FOAM	DENSITY 2.0 TO 2.5 lbs./ft <sup>3</sup>
8	BOTTOM CHANNEL	EM-07	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
9	WOOD LOCK BLOCK	EM-09	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
10	STRIKE STILE	EM-06	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
11	HINGE STILE	EM-05	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
12	LOCK PREP FILLER PLATE	EM-10	PREMIOR BRAND - .050" THICK- MTL. TO BE POLYETHYLE
13	4"x4" HINGE	EM-16	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK STEEL
14	WOOD HINGE JAMB	FH-13	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
15	#10-24 x 1/2" F.H.V.S.		(4) SCREWS PER HINGE INTO DOOR
16	#10 X 2" F.H.V.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TOP (6) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TOP (7) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TOP (8) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
17	WOOD SIDELITE JAMB		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
18	#10 X 3/4" F.H.V.S.		(2) SCREWS PER HINGE INTO JAMB
19	#8 X 2" F.H.V.S.		(2) SCREWS AT EACH STRIKE PLATE
20	LOCKSET		KVICKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
21	#10 X 1 3/4" F.H.V.S.		(2) SCREWS PER HINGE INTO JAMB
22	WOOD SIDELITE JAMB	EM-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
23	22" X 64" SINGLE PANEL GLASS	EM-19	TEMPERED GLASS IN POLYPROPYLENE FRAME - DC-1643 - 1/8" CLEAR THERMO-GLASS
24	SIDELITE TRIM (WOOD)	EM-20	5/16" X 1/2" MTL. TO BE PINE OR EQUIVALENT
25	WOOD CASING	EM-21	1/8" X 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE HOLDINGS U FOR SIDE BY SIDE JAMBS AS MILLIONS
26	WOOD SIDELITE HEAD JAMB	EM-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
27	WOOD SIDELITE BASE	EM-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
28	POLYPROPYLENE LITE FRAME	DC-1643, DDL-2	HP Polypropylene by ODL
29	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME TO EXCEED 14" O.C. THEREAFTER
30	SIDELITE STILES	EM-26	15/16" X 1 1/16" MTL. TO BE PINE OR EQUIVALENT
31	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THEREAFTER, USED ON MILLIONS AND 11



DOW SILICONE #995

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE GATE JUN 05 2005 BY *Signature* PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0374-E-3

SECTION B-B

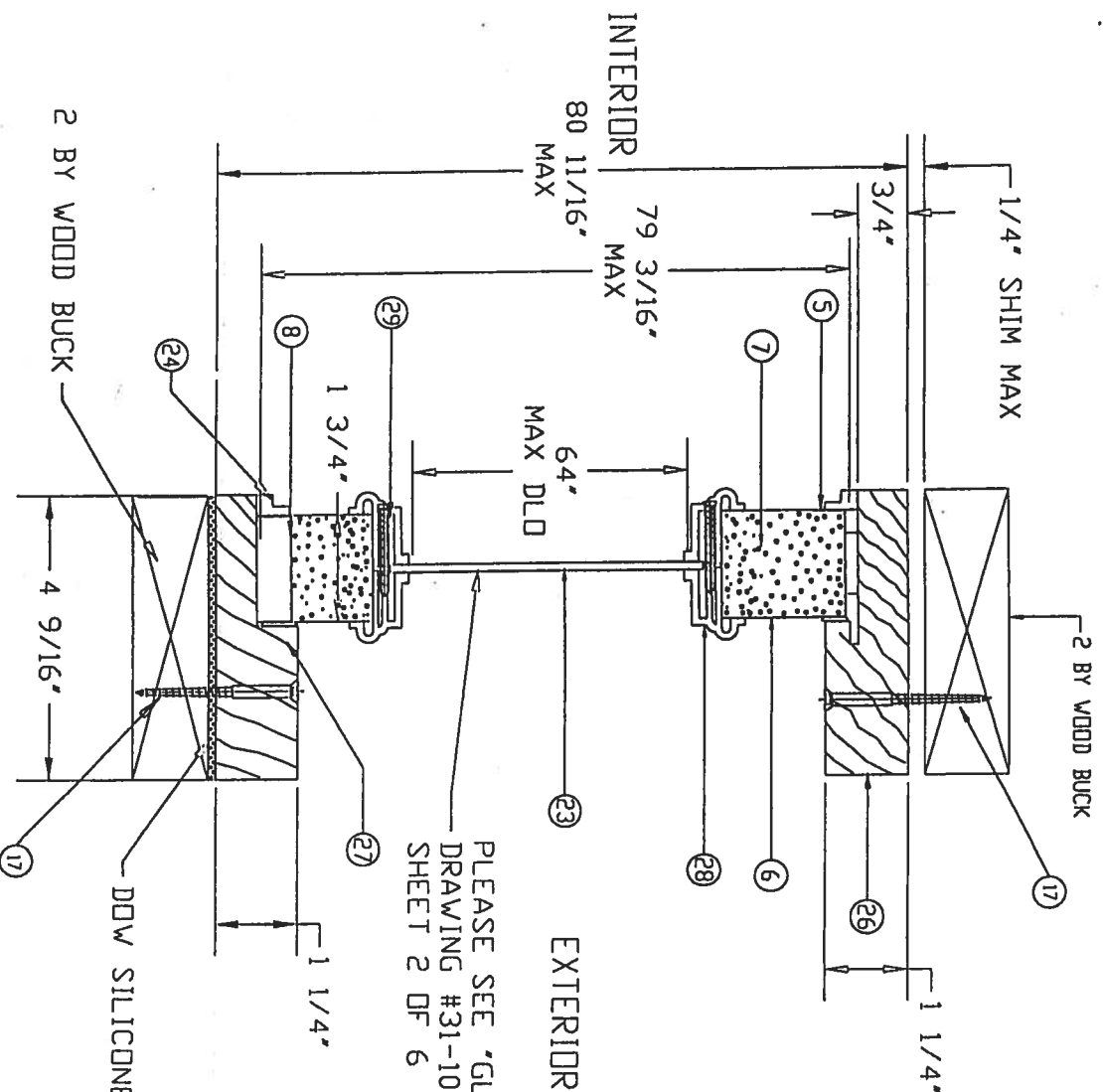
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 EXTERSIONS UNLESS NOTED, STD. COM. IND. S.  
 ENGINEER:

DATE: 7-29-97  
 PREMIOR ENTRY SYSTEMS  
 910 E. JEFFERSON  
 PITTSBURGH, KS. 66762

DATE: 7-29-97  
 PART NAME: ENERGY STEEL EDGE DOOR (P-8)  
 SCALE:

DATE COUNTY MODIFICATIONS 1/11/01 JD  
 ADDED PAGE 5 (DOOR OPTIONS) 10-1-98 RS  
 REVISIONS DATE BY

31-1029-EM-I  
 SHEET 3 OF 6  
 REVISOR LETTER B



PLEASE SEE 'GLAZING DETAIL'  
DRAWING #31-1029-EM-1  
SHEET 2 OF 6

SECTION C-C

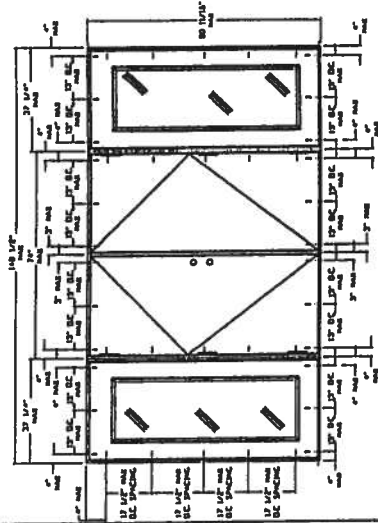
APPROVED AS CORRECTING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE JUN 05 2005  
BY *M. M. M.*  
FRIEDRICH CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0314-23

DATE	BY	REVISION	DATE	BY
7-29-97	R.S.			

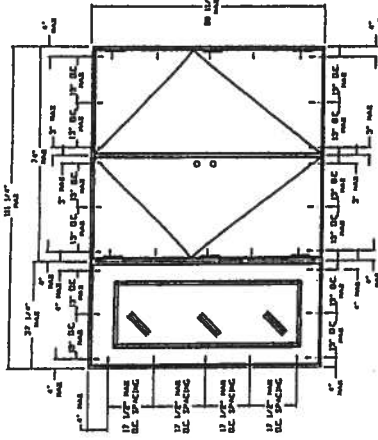
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BY: R.S.  
REVISION: 31-1029-EM-1  
SHEET 4 OF 6

REVISION LETTER: D

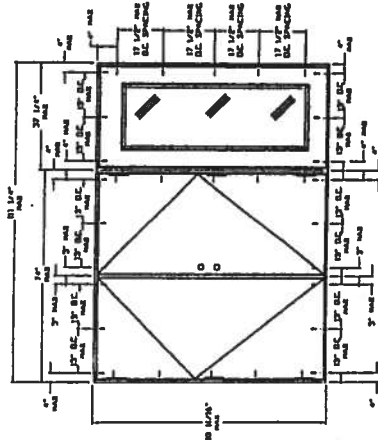
# OTHER DOOR CONFIGURATIONS



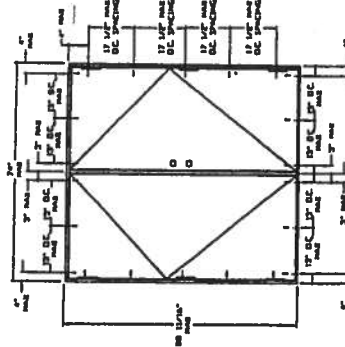
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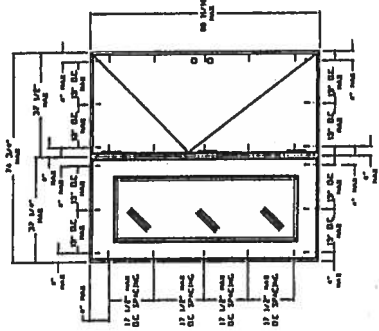
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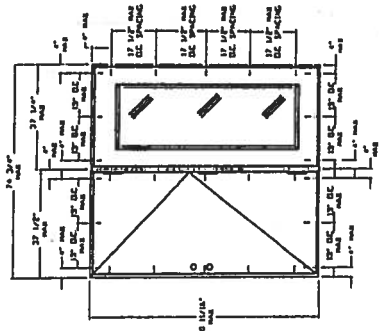
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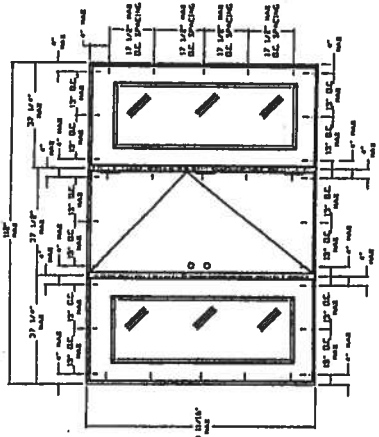
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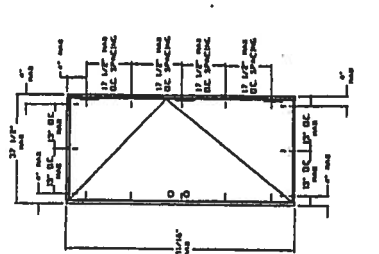
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□XD



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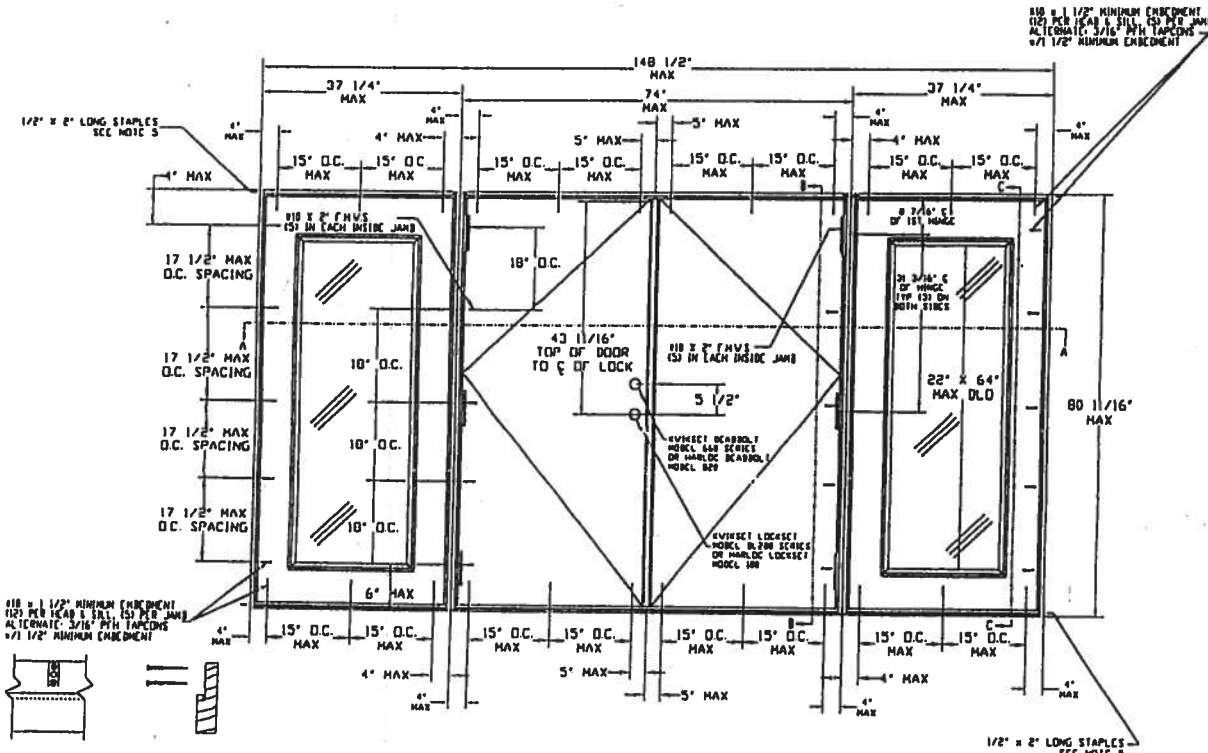
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APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE JUN 05 2001  
 BY *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 01-0314-23

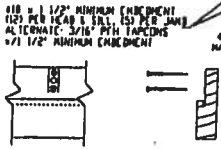
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EXTENSIONS: UNLESS NOTED, STD. CORN. 10:3			
ENGINEER:	LTR:	REVISIONS:	DATE BY
DR. BT. J.R.	PAUL:		
SCALE: 1/4" = 1'-0"			
PREMIOR ENTRY SYSTEMS			
911 E. JEFFERSON			
PITTSBURG, KS 66702			
31-1029-EM-I			
SHEET 5 OF 6			
REVISION LETTER			



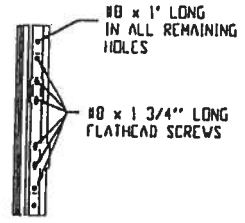
PREMDOR (ENTERGY BRAND) DOUBLE DOOR  
WITH SIDELITES IN WOOD FRAMES  
WITH BUMPER THRESHOLD (INSWING)



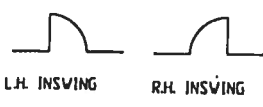
#10 @ 1 1/2\"/>



ATTACH ASTRALGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4\"/>



ASTRALGAL



- NOTES:
- 1. WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
  - 2. THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.
  - 1. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.
  - 1. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.
  - 1. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL INE BY WOOD BUCK.
  - 1. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2\"/>

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED *	+55.0 psf
Negative	NOT APPROVED *	-55.0 psf

\* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE JUN 05 2001  
BY *Michael...*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0314.23

LIMITS: UNLESS NOTED, FRAC. DEC. 1. ANG. :		DATE COUNTY MODIFICATIONS	
1	ADDED PAGE 5 (DOOR OPTIONS)	12/1/00	JD
A	ADD OTHER DOOR CONFIGURATIONS	10-1-98	RS
11B	REVISIONS	12/1/97	RS
11C	REVISIONS	11/1/97	BT
PART NAME: ENERGY EFFICIENT DOUBLE DOOR WITH SIDELITES		SCALE: N.T.S.	
DATE: 7-29-97		31-1029-EM-1	
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PILLSBURG, GA 30712		SHEET 1 OF 6	



**RIGHT-J LOAD AND EQUIPMENT SUMMARY**  
**Entire House**

Touchstone Heating and Air, Inc.

Job: Cobblestone Lot 17  
 09/22/06

P.O. Box 327, Lake Butler, FL 32054 Phone: 386-486-3467 Fax: 386-486-3147

**Project Information**

For: Concept Construction  
 2109 W. US Hwy 90 Suite 170-144, Lake City, FL 32055  
 Phone: 386-755-8857 Fax: 386-755-1919

Notes:

**Design Information**

Weather: Ja, FL, US

**Winter Design Conditions**

Outside db 33 °F  
 Inside db 70 °F  
 Design TD 37 °F

**Summer Design Conditions**

Outside db 93 °F  
 Inside db 75 °F  
 Design TD 18 °F  
 Daily range M  
 Relative humidity 55 %  
 Moisture difference 40 gr/lb

**Heating Summary**

Building heat loss 118020 Btuh  
 Ventilation air 0 cfm  
 Ventilation air loss 0 Btuh  
 Design heat load 118020 Btuh

**Sensible Cooling Equipment Load Sizing**

Structure 35597 Btuh  
 Ventilation 0 Btuh  
 Design temperature swing 3.0 °F  
 Use mfg. data n  
 Rate/swing multiplier 0.98  
 Total sens. equip. load 34885 Btuh

**Infiltration**

Method Simplified  
 Construction quality Average  
 Fireplaces 0

	Heating	Cooling
Area (ft <sup>2</sup> )	2805	2805
Volume (ft <sup>3</sup> )	22143	22143
Air changes/hour	1.25	1.06
Equiv. AVF (cfm)	460	392

**Latent Cooling Equipment Load Sizing**

Internal gains 460 Btuh  
 Ventilation 0 Btuh  
 Infiltration 10674 Btuh  
 Total latent equip. load 11134 Btuh

Total equipment load 46019 Btuh  
 Req. total capacity at 0.70% BHR 4.2 ton

**Heating Equipment Summary**

Make Trane  
 Trade  
 2TWB3048A1000A

Efficiency 9.1 HSPF

Heating input  
 Heating output 43000 Btuh @ 47°F  
 Heating temp rise 29 °F  
 Actual heating fan 1350 cfm  
 Heating air flow factor 0.011 cfm/Btuh

Space thermostat

**Cooling Equipment Summary**

Make Trane  
 Trade  
 2TWB3048A1000A  
 2TEC3F48A1000A

Efficiency 13.0 SEER

Sensible cooling 29400 Btuh  
 Latent cooling 12600 Btuh  
 Total cooling 42000 Btuh  
 Actual cooling fan 1350 cfm  
 Cooling air flow factor 0.038 cfm/Btuh

Load sensible heat ratio 78 %

Equipment values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844  
 Florida Engineering Certificate of Authorization Number: 567  
 Florida Certificate of Product Approval # FL1999  
 Page 1 of 1 Document ID:1T1R215-Z0225102512

Truss Fabricator: W.B. Howland  
 Job Identification: 3892-/KENT MARSHALL /OWNER BUILDER -- , \*\*  
 Truss Count: 37  
 Model Code: Florida Building Code 2004  
 Truss Criteria: ANSI/TPI-2002(STD)/FBC  
 Engineering Software: Alpine Software, Version 7.25.  
 Structural Engineer of Record: The identity of the structural EOR did not exist as of  
 Address: the seal date per section 61G15-31.003(5a) of the FAC  
 Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration  
 Floor - N/A  
 Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 10/25/2006

**Notes:**

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

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

#	Ref	Description	Drawing#	Date
1	08084--A-1		06298019	10/25/06
2	08085--A-2		06298009	10/25/06
3	08086--A-3		06298004	10/25/06
4	08087--A-4		06298005	10/25/06
5	08088--A-5		06298006	10/25/06
6	08089--A-6		06298026	10/25/06
7	08090--A-7		06298020	10/25/06
8	08091--AG-1		06298007	10/25/06
9	08092--AG-2		06298027	10/25/06
10	08093--FTG1		06298018	10/25/06
11	08094--GE1		06298001	10/25/06
12	08095--GE2		06298030	10/25/06
13	08096--GE3		06298021	10/25/06
14	08097--GE4		06298024	10/25/06
15	08098--GE5		06298033	10/25/06
16	08099--GE6		06298034	10/25/06
17	08100--H7A		06298017	10/25/06
18	08101--H7B		06298003	10/25/06
19	08102--H7C		06298012	10/25/06
20	08103--H15B		06298005	10/25/06
21	08104--H15A		06298029	10/25/06
22	08105--H15C		06298006	10/25/06
23	08106--HG7A		06298008	10/25/06
24	08107--JC1		06298014	10/25/06
25	08108--JC3		06298013	10/25/06
26	08109--JC5		06298011	10/25/06
27	08110--JE7		06298015	10/25/06
28	08111--JH10		06298010	10/25/06
29	08112--M1		06298016	10/25/06
30	08113--MH1		06298002	10/25/06
31	08114--S1		06298025	10/25/06
32	08115--S2		06298028	10/25/06
33	08116--S3		06298022	10/25/06
34	08117--S4		06298007	10/25/06
35	08118--S5		06298031	10/25/06
36	08119--S6		06298023	10/25/06

#	Ref	Description	Drawing#	Date
37	08120--SG1		06298032	10/25/06



# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Page 1 of 1 Document ID: 1T1R215-Z0225102512

Truss Fabricator: W.B. Howland  
Job Identification: 3892-/KENT MARSHALL /OWNER BUILDER -- , \*\*  
Truss Count: 2  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.25.  
Structural Engineer of Record:  
Address:  
Minimum Design Loads: Roof - 32.0 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: HCUSR215

Seal Date: 10/25/2006

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

## Revised Trusses

#	Ref	Description	Drawing#	Date
1	08099--GE6		06298034	10/25/06
2	08110--JE7		06298015	10/25/06



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

Wind reactions based on MWFRS pressures.  
 Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 2-0-1.  
 Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



110 mph wind, 21.00 ft mean ht, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC. Plates sized for a minimum of 3.00 sq.in./piece.

Scale = .5" /Ft.

REF	QTY	FL	/	5	/	-	/	R	/	Scale
TC LL	20.0	PSF								REF R215-- 8084
TC DL	10.0	PSF								DATE 10/25/06
BC DL	2.0	PSF								DRW HCUSR215 06298019
BC LL	0.0	PSF								HC-ENG JB/WHK
TOT.LD.	32.0	PSF								SEQN- 26891
DUR.FAC.	1.25									FROM LRB
SPACING	24.0"									JREF- IT1R215_Z02

DESIGN CRIT: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503.00

R=82 PLF U=40 PLF W=4-5-8  
 R=4 U=180 W=6.31"

PLT TYP. Wave

ALPINE  
 Alpine Engineered Products, Inc.  
 1950 Marley Drive  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 567

WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PRODUCT, 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. ALPINE CONNECTOR PLATES ARE MADE OF 2018/106A (H-11/5X) ASTM A563 GRADE 40/60 (H. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 106A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANHX A3 OF TPI-2002 SEC 3. A SEAL OR THIS DESIGNER'S SIGNATURE AND STAMP SHALL BE REQUIRED FOR USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANHX/TPI 1 SEC 2.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED 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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/106A (H-11/5X) ASTM A563 GRADE 40/60 (H. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 106A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANHX A3 OF TPI-2002 SEC 3. A SEAL OR THIS DESIGNER'S SIGNATURE AND STAMP SHALL BE REQUIRED FOR USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANHX/TPI 1 SEC 2.

JAMES F. COLLINS, JR.  
 No. 67212  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

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

Wind reactions based on MWFRS pressures.

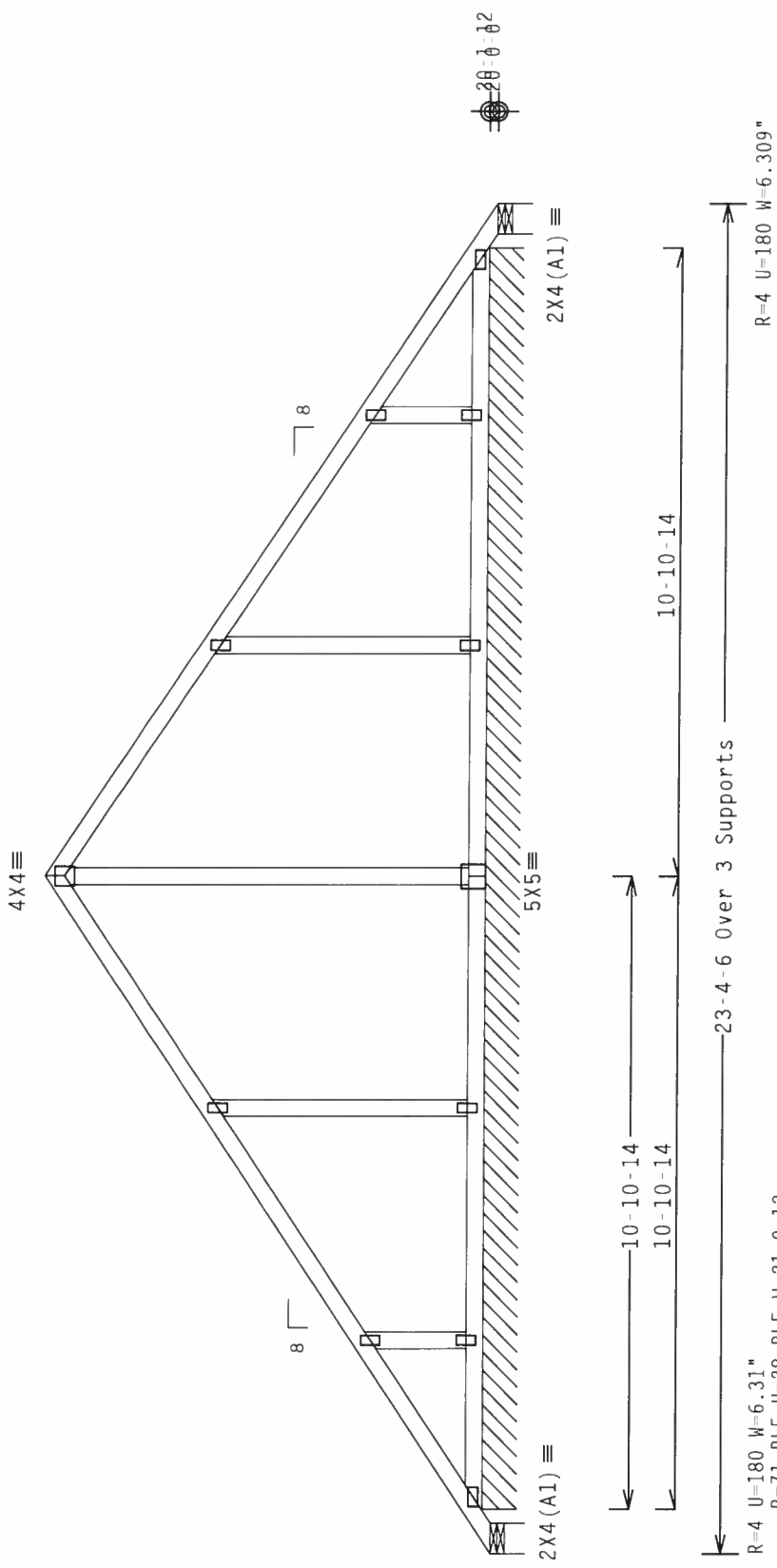
Deflection meets L/360 live and L/240 total load.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.89 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC. Plates sized for a minimum of 3.00 sq.in./piece.



R=4 U=180 W=6.31"  
 R=71 PLF U=28 PLF W=21-9-12

Note: All Plates Are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

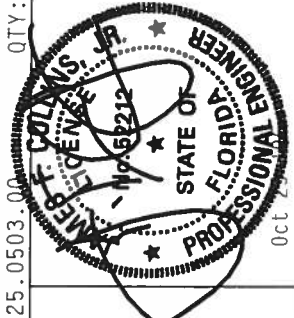
Cq/RT=1.00(1.25)/10(0)

QTY:27 FL/-/5/-/R/-

Scale = .3125"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDROD DR., SUITE 200, MADISON, WI 53719), AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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 IBCS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE PLATES TO EACH JOINT. THE CODES OF 2010/1604 (4.10/5/8) ASH 1853 GRADE 40/60 (IN. K/HL/S) GALV. STEEL. APPLY ANY INSPECTOR OF PLATES FOLLOWED BY (LS) SHALL BE PERMITTED TO MAKE ANY CHANGES TO THIS DESIGN. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS AND THE 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**  
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TC LL	20.0	PSF
TC DL	10.0	PSF
BC DL	2.0	PSF
BC LL	0.0	PSF
TOT.LD.	32.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	

REF	R215--	8085
DATE	10/25/06	
DRW	HCUSR215	06298009
HC-ENG	JB/WHK	
SEQN-	26849	
FROM	LRB	
JREF-	IT1R215_Z02	

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

110 mph wind, 15.00 ft mean htg, 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.

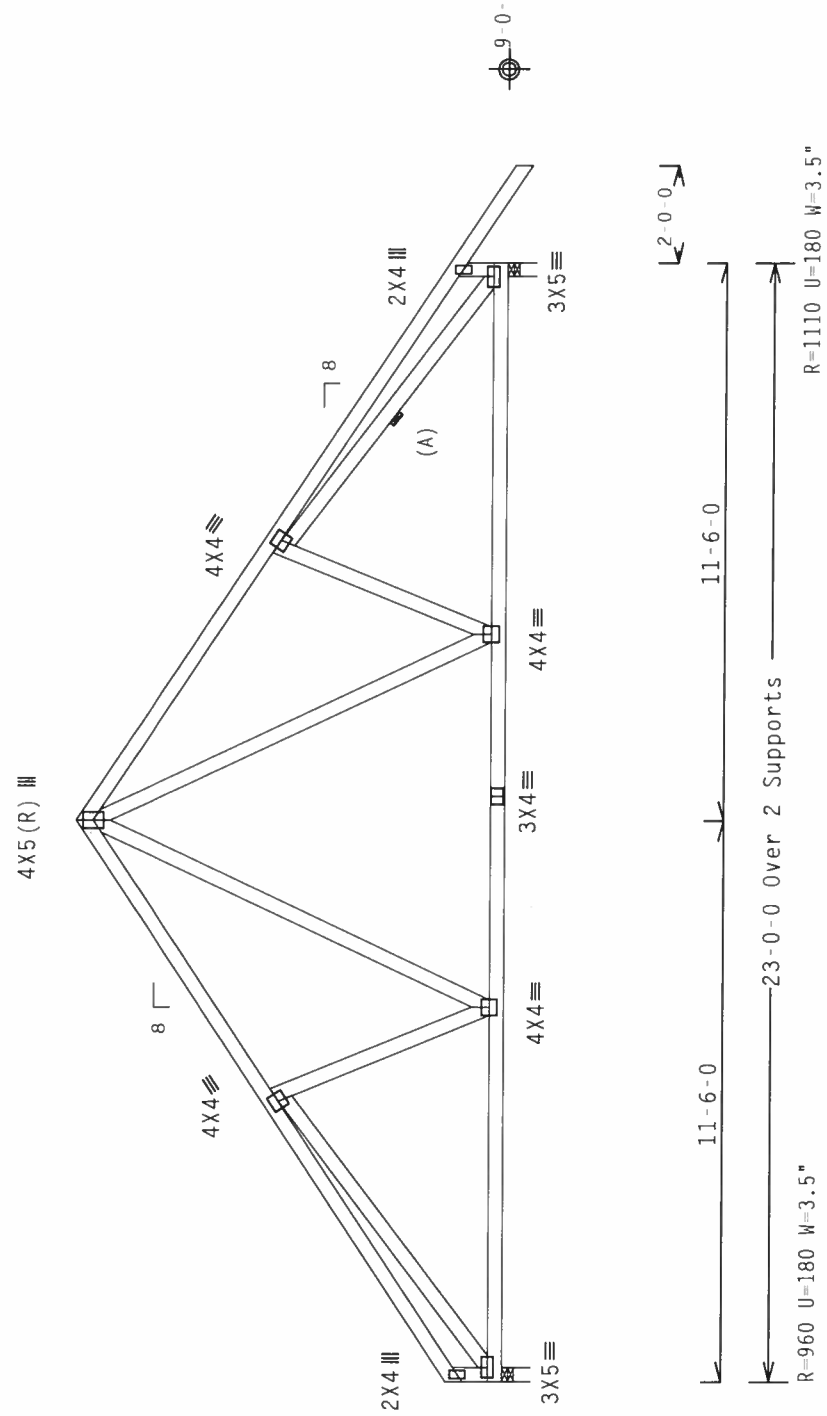
Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 8-10-1.

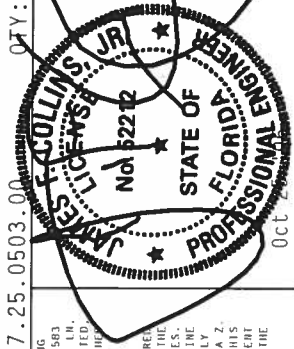
(A) Continuous lateral bracing equally spaced on member.

Plates sized for a minimum of 3.00 sq.in./piece.



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

REF	R215--	8086
DATE	10/25/06	
DRW	HCUSR215	06298004
HC-ENG	JB/WHK	
SEQN-	26862	
FROM	LRB	
JREF-	1TIR215	Z02



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 303 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BL, 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. ALPINE ENGINEERING 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 IBCS (NATIONAL DESIGN SPEC, BY AIA/AIA AND TPI. ALPINE TRUSSES OR PLATES ARE MADE BY 2018/10/04 (M/J/S/K) ASH 6053 GRADE 40/60 (M, R/H/S) GALV. STEEL. APPLY TO THE TRUSS MANUFACTURER FOR THE LOCATION OF THIS DESIGN. POSITION PER DRAWINGS 1004 2. ANY INSPECTOR OF PLATES FOLLOWED BY THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE  
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 1950 Manley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

PLT TYP. Wave

Scale = .25" / Ft.

QTY: 1

FL / - / 5 / - / - / 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  
 D/R.FAC. 1.25  
 SPACING 24.0"

R=1110 U=180 W=3.5"

Top chord 2x8 SP #2 N : T2 2x6 SP #2 N : T3 2x4 SP #2 N :  
 Bot chord 2x6 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

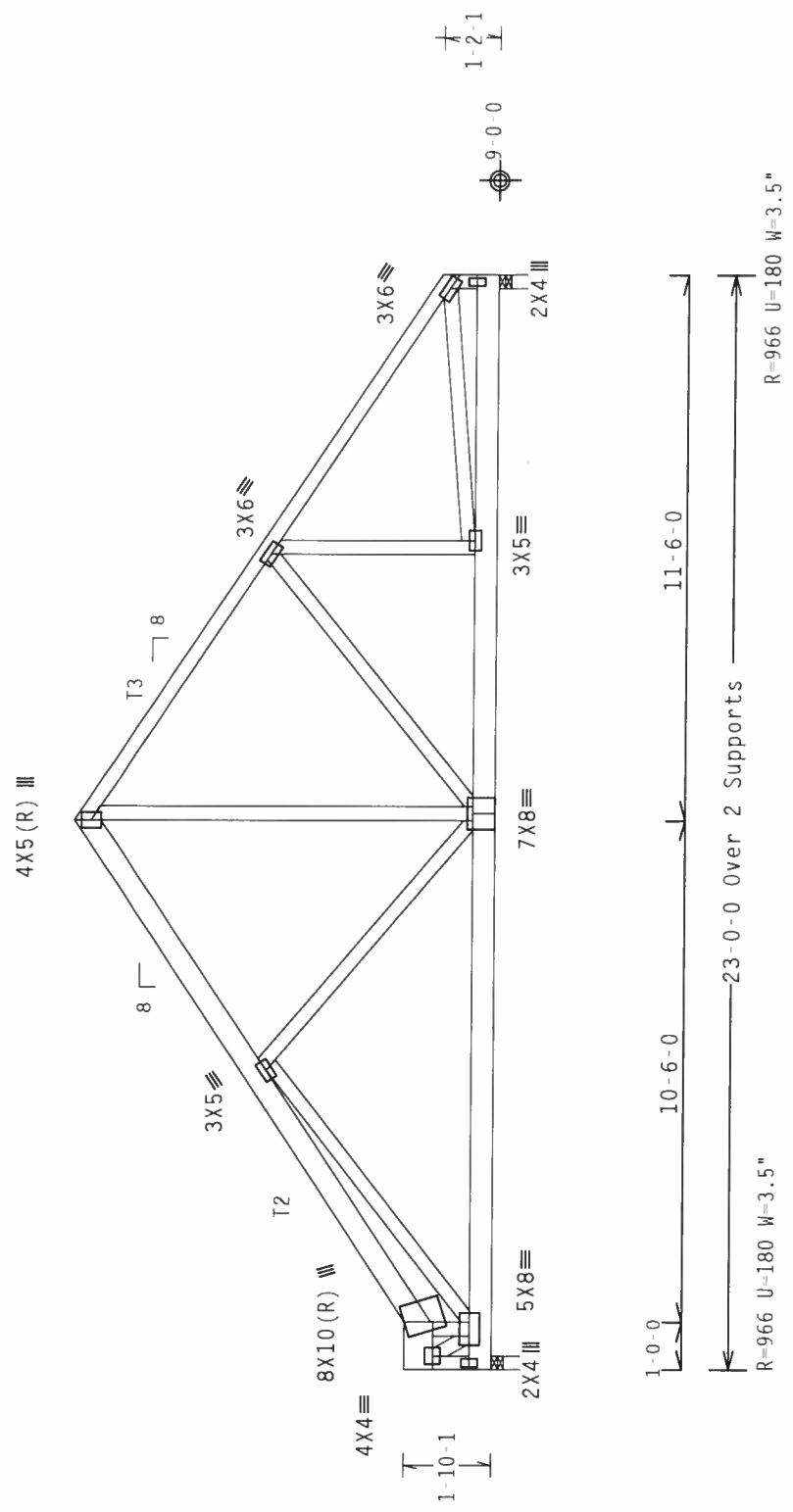
Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 8-10-1.

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.

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

Plates sized for a minimum of 3.00 sq.in./piece.



Design Crit: TPI-2002 (STD) / FBC

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BGSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 158 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA 6300 ENTERPRISE BLVD, 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. ALPINE ENGINEERS 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 AF&PA) AND TPI. ALPINE ENGINEERS PRODUCTS, INC. HAS BEEN LICENSED BY THE STATE OF FLORIDA AS A PROFESSIONAL ENGINEER. ALL PLATES OR PLATES ARE MADE OF 20/18/16GA (M/JI/57K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES REQUIRED BY THE PROJECT. 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.

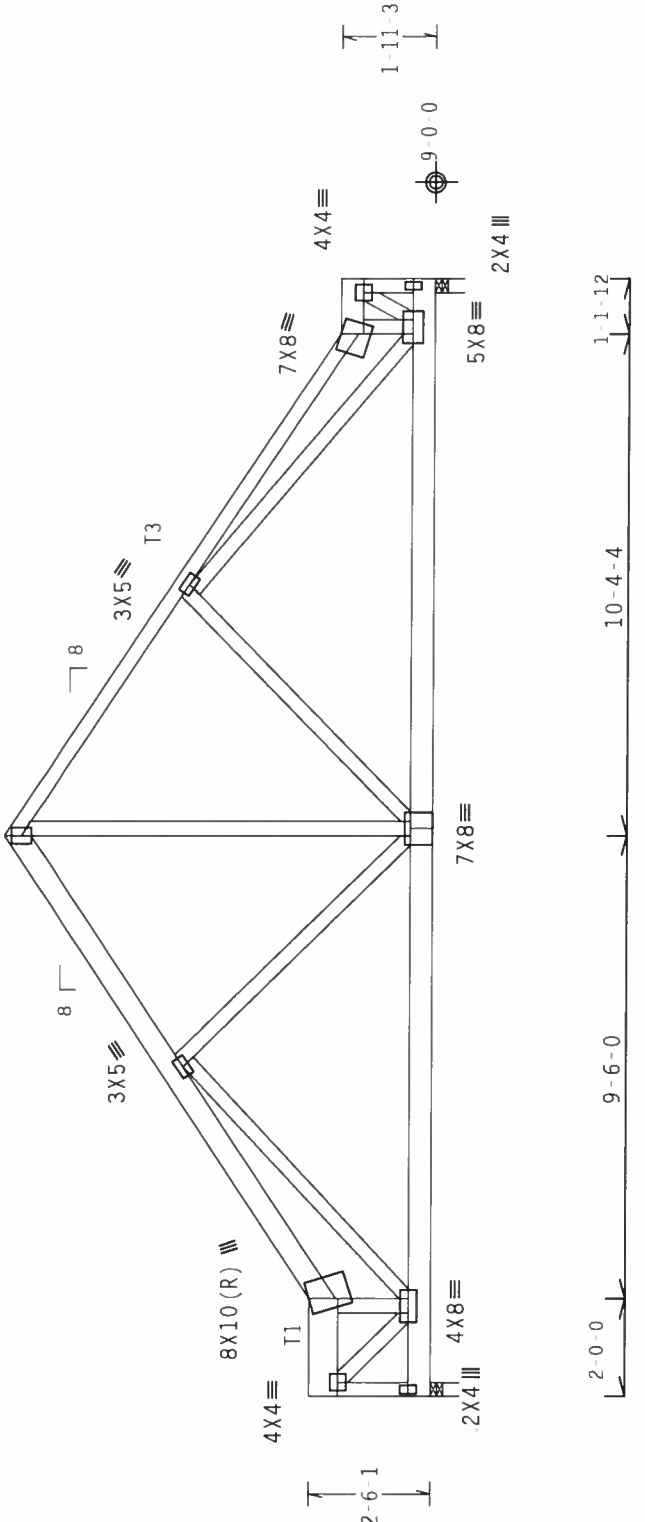
PLT TYP. Wave	QTY: 1	FL / - / 5 / - / - / R / -	Scale = .25" / Ft.
	TC LL	20.0 PSF	REF R215 -- 8087
	TC DL	10.0 PSF	DATE 10/25/06
	BC DL	10.0 PSF	DRW HCUSR215 06298005
	BC LL	0.0 PSF	HC-ENG JB/WHK *
	TOT.L.D.	40.0 PSF	SEQN- 26860
	DUR.FAC.	1.25	FROM LRB
	SPACING	24.0"	JREF- 1T1R215_Z02

**ALPINE**  
 Alpine Engineered Products, Inc.  
 1950 Manley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

( 3892 / KENT MARSHALL / OWNER BUILDER -- \*\* A 5 )  
 Top chord 2x6 SP #2 N : T1 2x8 SP #2 N : T3 2x4 SP #2 N :  
 Bot chord 2x6 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 Left end vertical not exposed to wind pressure.  
 Provide for complete drainage of roof.  
 The overall height of this truss excluding overhang is 8-10-1.

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.  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
 Deflection meets L/360 live and L/240 total load.  
 Plates sized for a minimum of 3.00 sq.in./piece.



PLT TYP. Wave  
 Design Crit: TPI-2002 (STD) / FBC  
 Cq/RT=1.00 (1.25) / 10 (0) 7.25.0503 QTY: 1 FL / - / 5 / - / R / -  
 Scale = .25" / Ft.  
 REF R215 - - 8088  
 DATE 10/25/06  
 DRW HCUSR215 0629B006  
 HC-ENG JB/WHK  
 SEQN- 26858  
 FROM LRB  
 JREF- IT1R215\_Z02

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION, D-000R10 BR., SHUTE 200, MADISON, WI 53719), AND WEA (WOOD TRUSS COUNCIL OF AMERICA) PUBLICATIONS. MOUNTING PLATES SHALL BE PROPERLY ATTACHED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. 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. ALPINE ENGINEERED 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 MDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2019/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H/S) 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 ENGINEER 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.

Oct 25 00

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

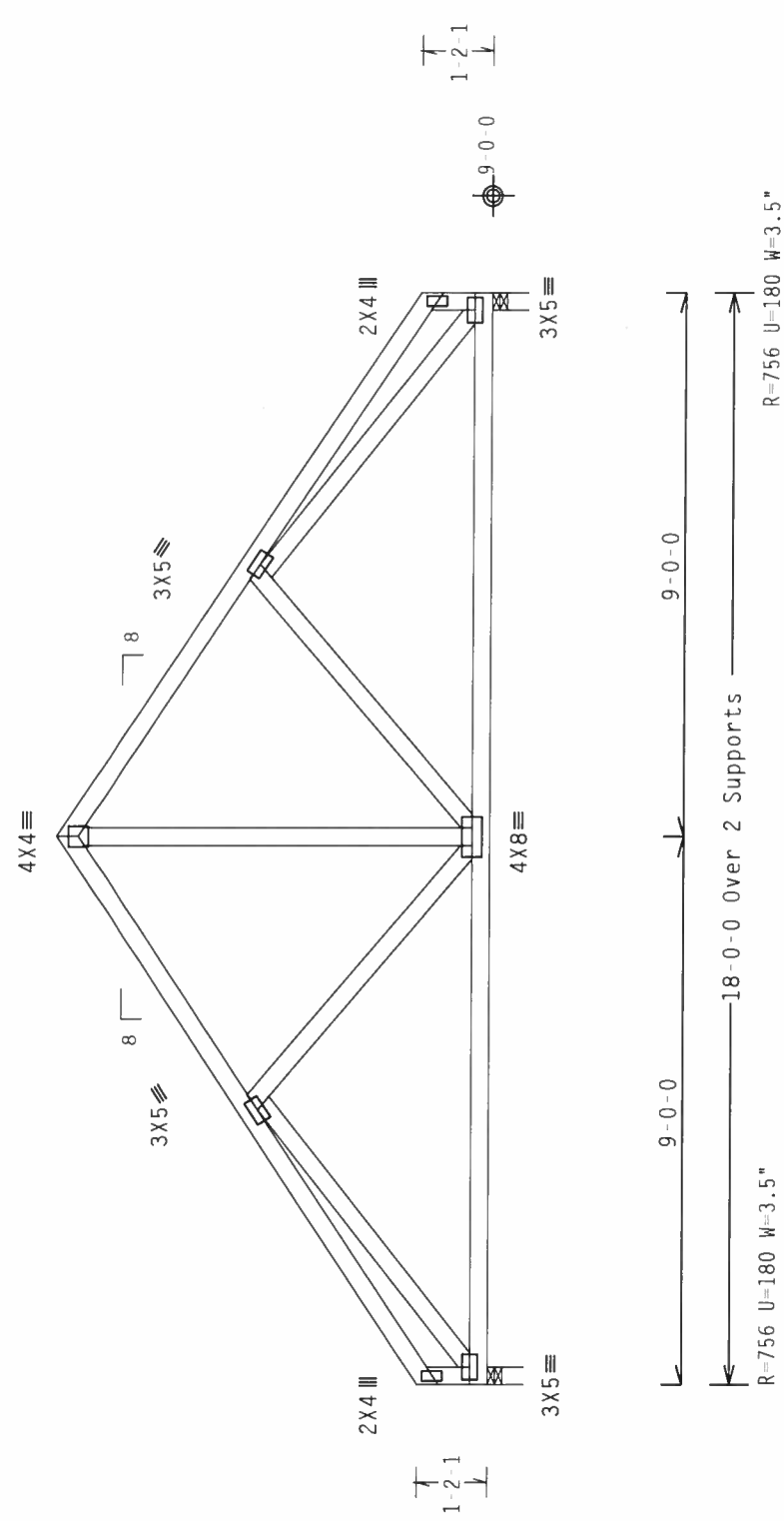
110 mph wind, 15.00 ft mean htg, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-2-1.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503

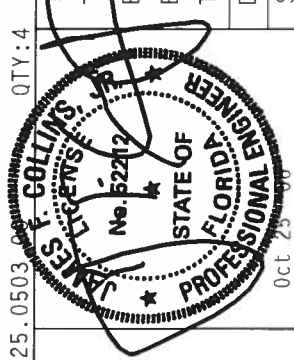
QTY: 4 FL/-/5/-/R/- Scale = .3125"/Ft.

REF	R215--	8089
DATE	10/25/06	
DRW	HCUSR215	06298026
HC-ENG	JB/WHK	*
SEQN-	26868	
FROM	LRB	
JREF-	1T1R215_Z02	

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER OPERATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'OUTRIER DR., SUITE 200, MADISON, WI 53716) AND THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN. THE CONTRACTOR 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. ALPINE ENGINEERED 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 AND BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2019/166A (M/J/S/K) ASTM A653 GRADE 40/60 (M, 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 ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE TRUSS COMPONENT BUILDING DESIGNER PER AMSI/TPI 1 SEC. 2.

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 1950 Manley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

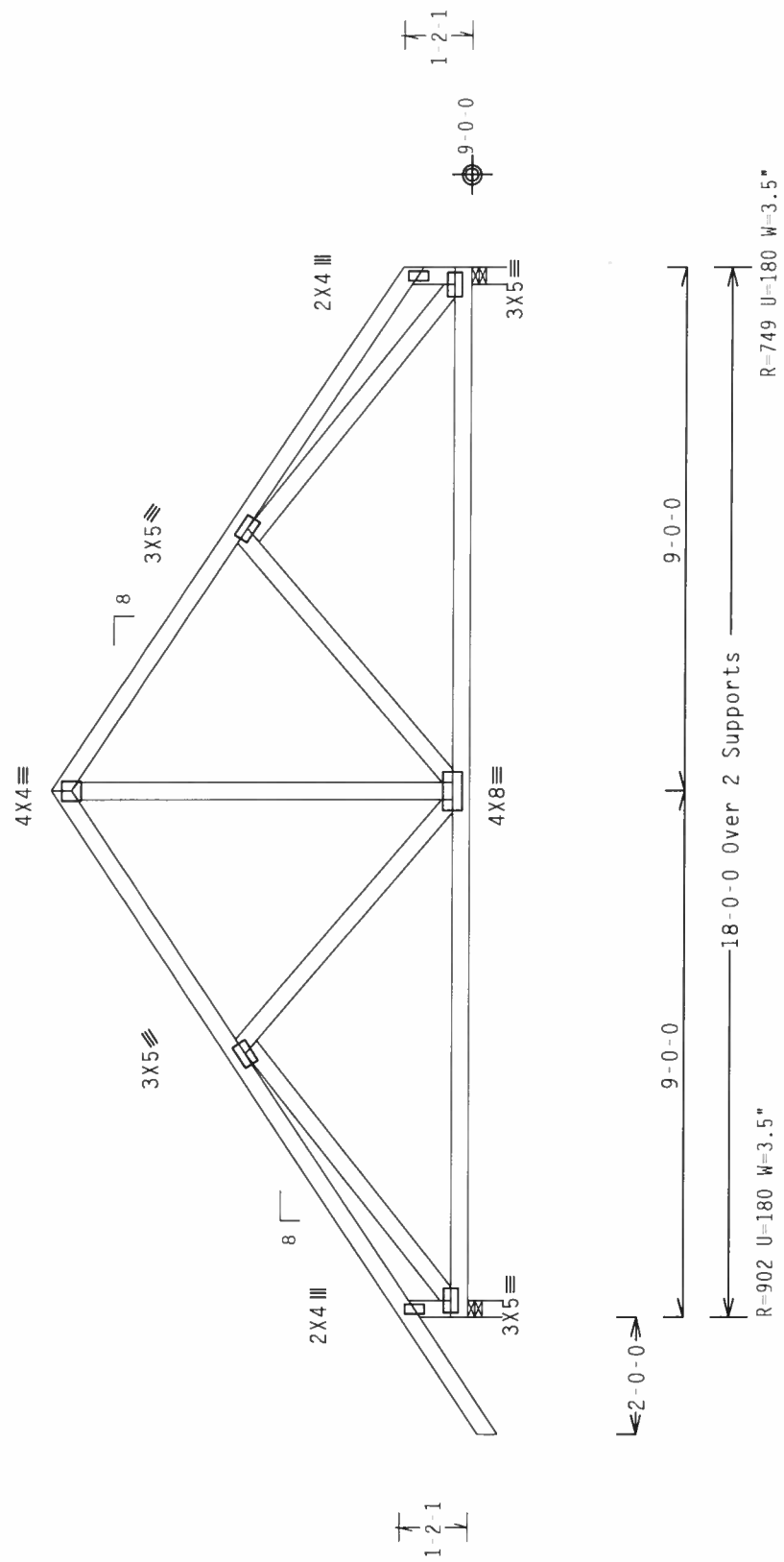


Top chord 2x4 SP #2 N  
 Bot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 Plates sized for a minimum of 3.00 sq.in./piece.

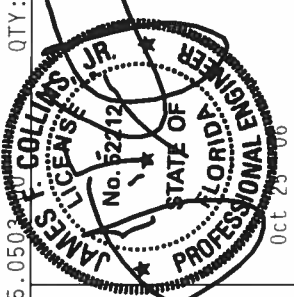
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load.  
 The overall height of this truss excluding overhang is 7-2-1.



PLT TYP. Wave  
 Design Crit: TPI-2002 (STD) /FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R215 - 8090
TC DL	10.0 PSF	DATE	10/25/06
BC DL	10.0 PSF	DRW	HCUSR215 06298020
BC LL	0.0 PSF	HC-ENG	JB/MHK *
TOT.LD.	40.0 PSF	SEQN	26866
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF	1T1R215_Z02



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PUBLIC INSTITUTE) 1000 RIVER DR., SUITE 200, MADISON, WI 53719, AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., 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. ALPINE ENGINEERED 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 AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/10/10GA (4-M/5X8) ASTM A563 GRADE 40/60 (IN. K/H/S) GALV. STEEL. APPLY UNLESS OTHERWISE PERMANENTLY MARKED ON THIS DESIGN. POSITION PER DRAWINGS 100K-2. ANY INSPECTION OF PLATES FOLLOWED BY UNLESS OTHERWISE PERMANENTLY MARKED ON THIS DESIGN. THIS 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.

Top chord 2x6 SP #2 N  
 Bot chord 2x6 SP #5  
 Webs 2x4 SP #2 N :W2 2x4 SP #5  
 :W7 2x4 SP #2 Dense

SPECIAL LOADS  
 --- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 64 PLF at 0.00 to 64 PLF at 23.00  
 BC - From 20 PLF at 0.00 to 20 PLF at 23.00  
 BC - 1754 LB Conc. Load at 1.94, 3.06  
 BC - 1765 LB Conc. Load at 5.06, 6.94, 20.94  
 BC - 1766 LB Conc. Load at 8.94, 10.94, 12.94, 14.94, 16.94  
 18.94

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.

End verticals not exposed to wind pressure.  
 (A) Continuous lateral bracing equally spaced on member.  
 Deflection meets L/360 live and L/240 total load.  
 The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

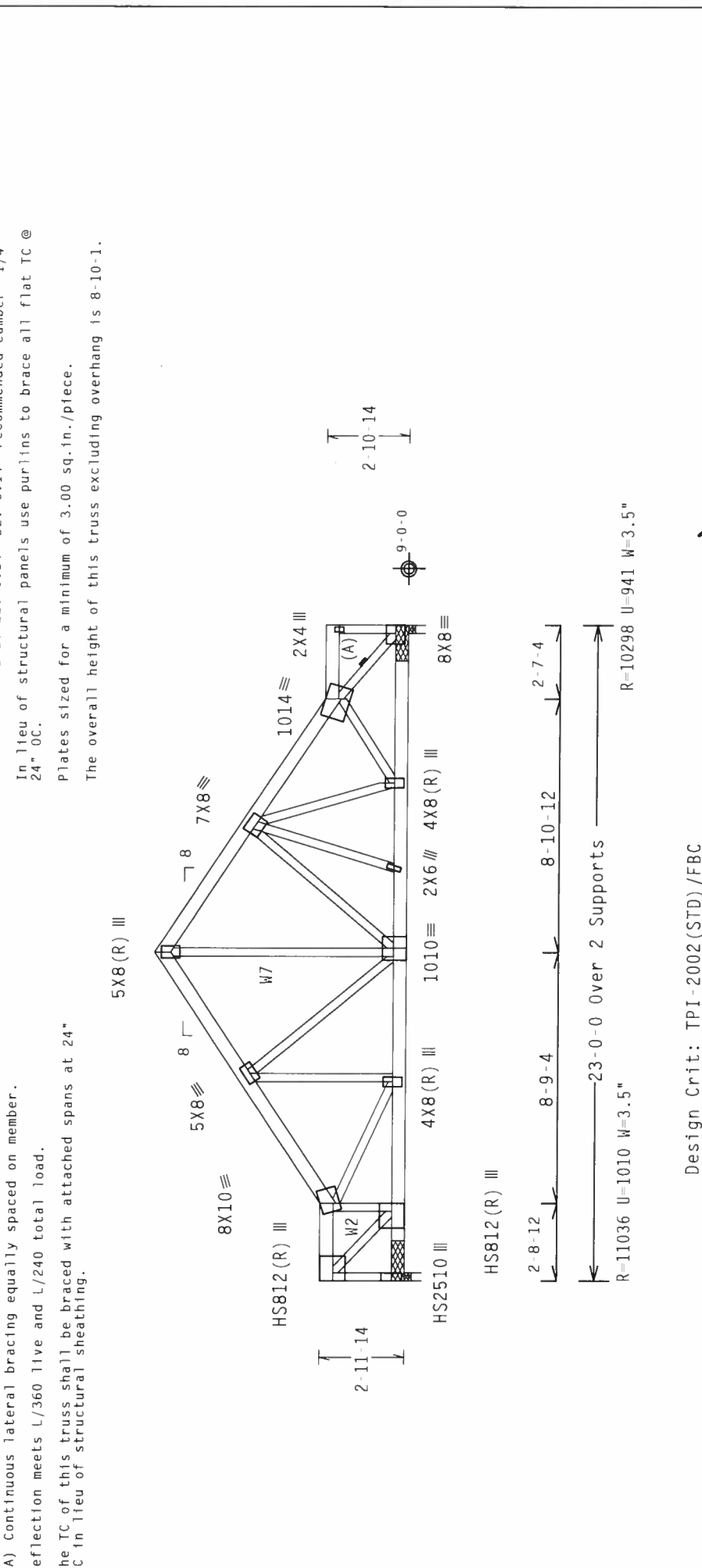
## 2 COMPLETE TRUSSES REQUIRED

Nailling Schedule: (0.131"x3"-Gun\_nails)  
 Top Chord: 1 Row @12.00" O.C.  
 Bot Chord: 2 Rows @ 3.50" O.C. (Each Row)  
 Webs : 1 Row @ 4" O.C.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 0.131"x3"-Gun\_nails  
 BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
 1 0.000' 2 17" 21 Match Truss  
 2 22.708' 2 15" 18 Match Truss

Bearing block to be same size and species as bottom chord. Refer to drawing CNBRGBLK1103 for additional information.

Wind reactions based on MWFRS pressures.  
 Max JT VERT DEFL: LL: 0.14" DL: 0.14" recommended camber 1/4"  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
 Plates sized for a minimum of 3.00 sq.in./piece.  
 The overall height of this truss excluding overhang is 8-10-1.

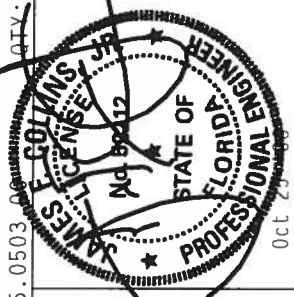


PLT TYP. 20 Gauge HS.Wave

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503

Scale = .1875" / Ft.

TC LL	20.0 PSF	REF	R215 -- 8091
TC DL	10.0 PSF	DATE	10/25/06
BC DL	10.0 PSF	DRW	HCUSR215 06298007
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	47463
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1T1R215_Z02



\*\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1.03 BUILDING COMPONENT SAFETY INFORMATION, INCLUDING THE FOLLOWING: (1) PLATE FABRICATOR'S (2) MANUFACTURER'S (3) SHIPPER'S (4) INSTALLER'S (5) CONTRACTOR'S (6) INSURER'S (7) ENGINEER'S (8) LOCAL BUILDING DEPARTMENT. MADISON, WI 53719) AND WEA (WOOD TRUSS COUNCIL OF AMERICA, 6700 W. WISCONSIN, MILWAUKEE, WI 53222). 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. ALPINE ENGINEERED 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 AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (4-11/16") ASTM A653 GRADE 40/60 (K, K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATE FOLLOWED BY TPI 2002, SEC.3. FOR THE TRUSS COMPONENT. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SELECT 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.

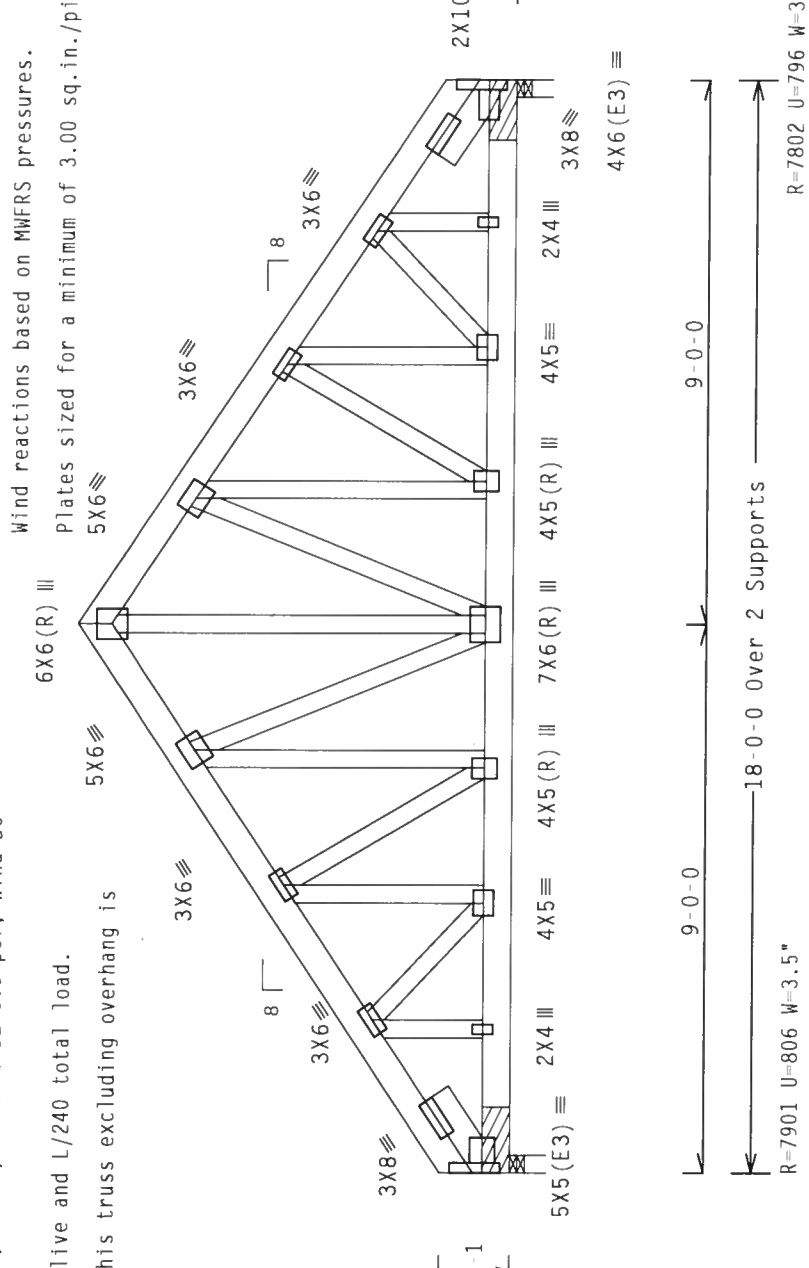
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 Alpine Engineered Products, Inc.  
 1950 Manley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

## 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (0.131"x3" Gun\_nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 0.131"x3" Gun nails  
 BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
 1 0.000' 1 13" 16 Match Truss  
 2 17.708' 1 12" 15 Match Truss  
 Bearing block to be same size and species as bottom chord.  
 Refer to drawing CNBRGblk1103 for additional information.

Wind reactions based on MWFRS pressures.  
 Plates sized for a minimum of 3.00 sq.in./piece.



Deflection meets L/360 live and L/240 total load.  
 The overall height of this truss excluding overhang is 7-2-1.  
 R=7901 U=806 W=3.5"  
 R=7802 U=796 W=3.5"

TC LL	20.0 PSF	Scale = .3125"/Ft.
TC DL	10.0 PSF	REF R215 - - 8092
BC DL	10.0 PSF	DATE 10/25/06
BC LL	0.0 PSF	DRW HCUR215 06298027
TOT.LD.	40.0 PSF	HC-ENG JB/WHK
DUR.FAC.	1.25	SEQN- 47457
SPACING	24.0"	FROM LRB
		JREF- 1T1R215_Z02

Top chord 2x6 SP #2 N  
 Bot chord 2x6 SP SS  
 Webs 2x4 SP #2 N  
 :Lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.500'  
 :Rt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.500'

SPECIAL LOADS  
 (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 64 PLF at 0.00 to 64 PLF at 18.00  
 BC - From 20 PLF at 0.00 to 20 PLF at 18.00  
 BC - 1765 LB Conc. Load at 1.94, 15.94  
 BC - 1777 LB Conc. Load at 3.94, 5.94, 7.94, 9.94, 11.94, 13.94

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.

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503  
 QTY:1 FL/-/5/-/R/-

WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL INSTITUTE OF BUILDING SCIENCES, 4800 OLD BRIDGE ROAD, SUITE 200, MADISON, WI 53719, AND AISC (STEEL INSTITUTE) AND AISC (STEEL INSTITUTE) 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. ALPINE ENGINEERED 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 IBCS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE PLATES OR PLATES NOT MADE TO THE SPECIFICATIONS OF AISC (STEEL INSTITUTE) SHALL BE USED. APPLY PLATES TO WEBS AT 20"/16" (M/J/S/P) ASH 16G5 GRADE 40/60 (M. K/H/S) GALV. STEEL. APPLY ANY INSPECTOR OF PLATES FOLLOWED BY (L.S.) MEMBER. POSITION PER DRAWINGS TGA-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEE TGA-2. A SEAL OR THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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 1950 Marley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

James J. Collins, Jr.  
 License No. 6227  
 State of Florida  
 Professional Engineer  
 Oct 23 2006

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

**SPECIAL LOADS**

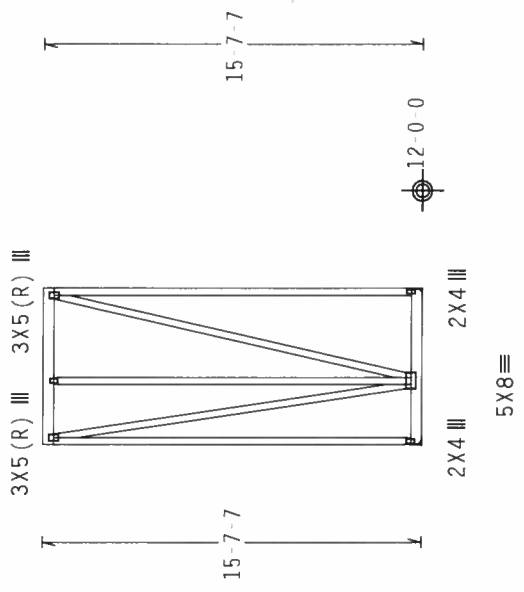
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 60 PLF at 0.00 to 60 PLF at 6.42  
 BC - From 20 PLF at 0.00 to 20 PLF at 6.42  
 BC - 495 LB Conc. Load at 1.94, 2.48, 4.42

Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

Truss must be installed as shown with top chord up.

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural 2X4 III sheathing.



R=1060 U=323 R=938 U=286

6-5-0 Over 2 Supports

**2 COMPLETE TRUSSES REQUIRED**

Nailing Schedule: (0.131" X 3" Gun\_nails)  
 Top Chord: 1 Row @ 12.00" O.C.  
 Bot Chord: 1 Row @ 6.50" 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, 27.62 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.

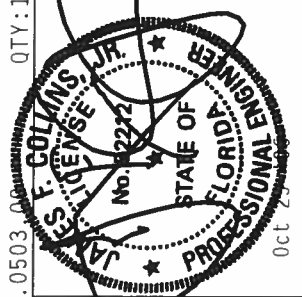
Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

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

Design Crit: TPI-2002(STD)/FBC

REF	R215 --	8093
DATE	10/25/06	
DRW	HCUSR215	06298018
HC-ENG	JK/WHK	
SEQN-	28139	
FROM	LRB	
JREF-	IT1R215_Z02	



PLT TYP. Wave

Scale = .125" / Ft.

QTY: 1 FL / - / 5 / - / - / 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 24.0"

**\*\*WARNING\*\*** TRUSSES REQUIRING CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BSI 1 03 (BUILDING COMPONENT SAFETY) AREA, AND WEA (WOOD TRUSS COUNCIL OF AMERICA) AREA, 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. ALPINE ENGINEERED 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 IBCS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (40/75K) ASTM A653 GRADE 40/60 (40, K/H/S) GALV. STEEL. APPLY TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. MATERIALS SHALL BE PER AISC 360-10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT DRAWING INDICATES. ACCEPTABLE OF PROFESSIONAL ENGINEER. A SEAL ON THIS DESIGN SHOWS THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/ASPI 1 SEC. 7.

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

Wind reactions based on MWFRS pressures.  
 Gable end supports 8" max rake overhang.

Deflection meets L/360 live and L/240 total load.  
 Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 10'-7"-13."

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.

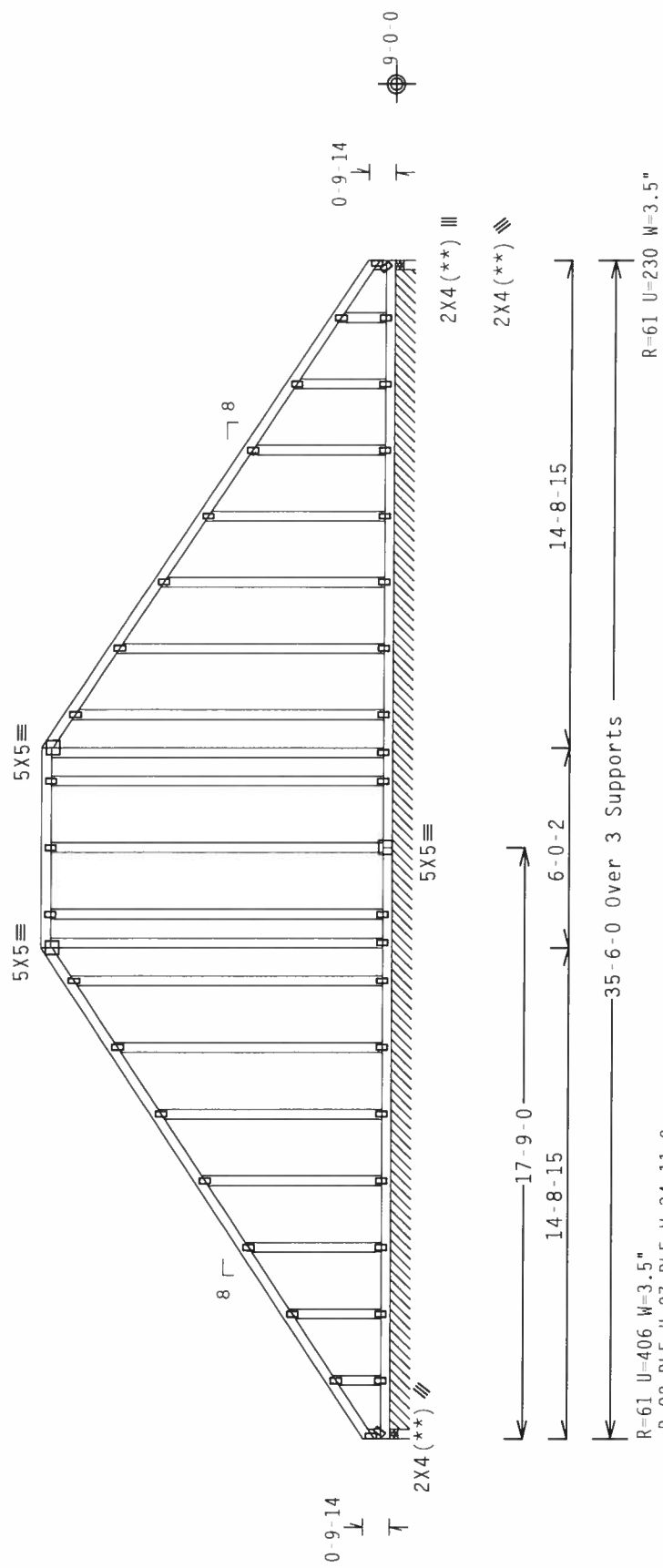
(\*\*) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Fasten rated sheathing to one face of this frame.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002 (STD) /FBC

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

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

Scale = .1875" / Ft.

REF	R215 - -	8094
DATE	10/25/06	
DRW	HCUSR215	06298001
HC-ENG	JB/WHK	
SEQN-	26911	
FROM	LRB	
JREF-	IT1R215_Z02	

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 1950 Manley Drive  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 567

ALPINE  
 ENGINEERED  
 PRODUCTS, INC.

JAMES F. WILLIAMS, JR.  
 No. BR272  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 001

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL INSTITUTE OF BUILDING TRUSS MANUFACTURERS, 1000 ENTERPRISE LN, 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. ALPINE ENGINEERED 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 AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2017/16GA (24.0/5/8) ASH A553 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY ANY INSPECTOR OF PLATES FOLLOWED BY SIGNATURE OF DESIGNER. POSITION PER DRAWINGS FIG. 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE LIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

110 mph wind, 21.00 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=1.2 psf.

Gable end supports 8" max rake overhang.  
 In lieu of rigid ceiling use purlins to brace BC @ 24" OC.  
 Plates sized for a minimum of 3.00 sq.in./piece.

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

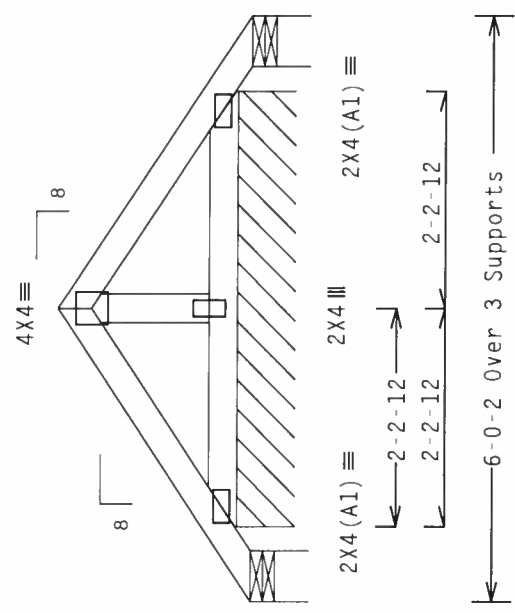
Wind reactions based on MWFRS pressures.

See DWG5 A11030EE0405 & GBLLETIN0405 for more requirements.

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

The overall height of this truss excluding overhang is 2-0-1.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



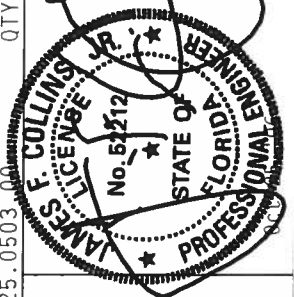
R=4 U=180 W=6.31"

R=82 PLF U=159 PLF W=4-5-8

R=4 U=180 W=6.31"

Design Crit: TPI-2002 (STD) /FBC  
 Cq/RT=1.00 (1.25) /10 (0) 7.25.0503.00

QTY:1	FL/-/5/-/-/R/-	Scale = .5" /Ft.
TC LL	20.0 PSF	REF R215 -- 8095
TC DL	10.0 PSF	DATE 10/25/06
BC DL	2.0 PSF	DRW HCUSR215 06298030
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	32.0 PSF	SEQN- 26897
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- IT1R215_Z02



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 1000 MADISON DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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. ALPINE ENGINEERED 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 ACPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2017/160A (4-11/16X) ASTM A563 GRADE 40/60 (4, 4/16-5) GALV. STEEL. APPLY TO ALL TRUSS TOE JOINTS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOR DEFECTS SHALL BE THE RESPONSIBILITY OF THE INSPECTOR. A SEAL OR THIS 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 ANS/11 SEC. 2.

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Alpine Engineered Products, Inc.  
 1950 Marley Drive  
 Gaines City, FL 32644  
 FL Certificate of Authorization # 567

110 mph wind, 15.00 ft mean htg, ASCE 7-02, CLOSED bldg, not located within 8.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.  
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 10'-7-13."

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.

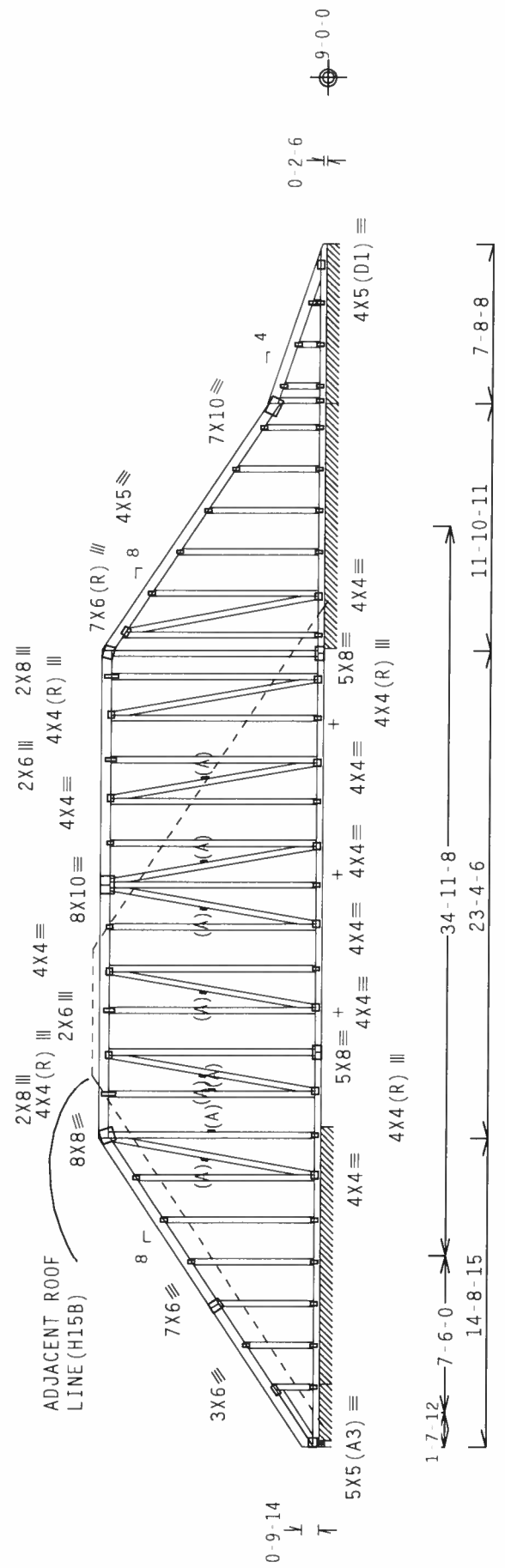
Top chord 2x6 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N  
:Lt Slider 2x4 SP #2 N: BLOCK LENGTH = 3.215'  
Gable end supports 8" max rake overhang.

(A) Continuous lateral bracing equally spaced on member.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

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



R=231 U=196 W=3.5" R=94 PLF U=66 PLF W=2-8-8 R=148 PLF U=51 PLF W=12-3-8 R=100 PLF U=44 PLF W=7-8-8  
57-8-8 Over 5 Supports  
Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/R/- Scale = .125"/Ft.

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DES. 1-03 (BUILDING COMPONENT SAFETY MANUAL) AND AISC (STEEL PLATING) INSTITUTE, 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. ALPINE ENGINEERING 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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY ANY INSPECTOR'S COMMENTS TO THE TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S 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.

**ALPINE**  
Alpine Engineered Products, Inc.  
1950 Manley Drive  
Haines City, FL 33844  
FL Certificate of Authorization # 567

**JAMES F. COLLINS, JR.**  
No. 52922  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
OC

REF	R215--	8096
DATE	10/25/06	
DRW	HCUR215	06298021
HC-ENG	JB/WHK	
SEQN-	26925	
FROM	LRB	
JREF	1T1R215	Z02

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

Wind reactions based on MWFRS pressures.

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

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

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

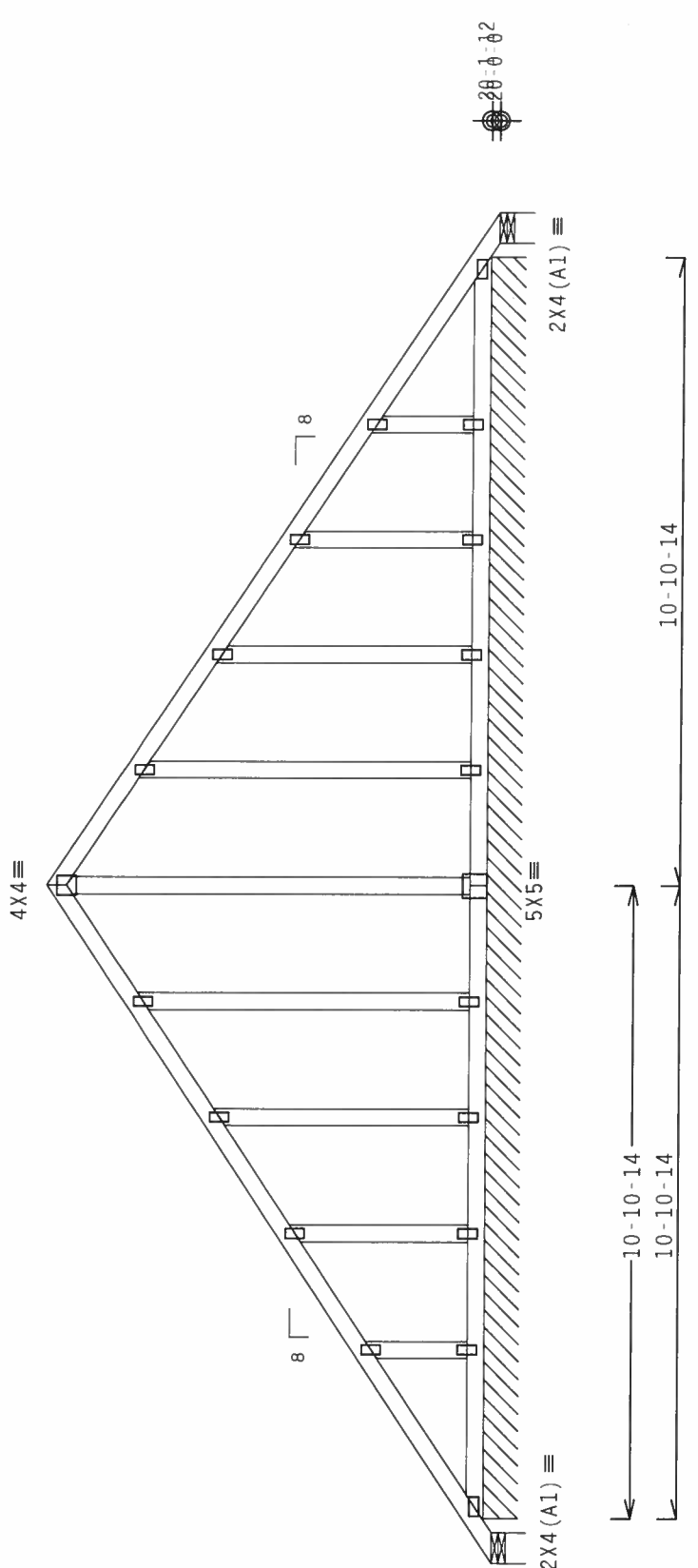
Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.89 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Gable end supports 8" max rake overhang.

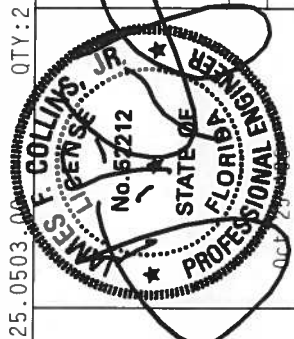
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Plates sized for a minimum of 3.00 sq.in./piece.



R=-11 U=233 W=6.31  
 R=72 PLF U=59 PLF W=21-9-12  
 23-4-6 Over 3 Supports  
 Scale = .3125"/Ft.

PLT TYP. Wave		QTY: 2		FL / - / 5 / - / R / -	Scale = .3125"/Ft.
TC LL	20.0 PSF	REF	R215 - -	8097	
TC DL	10.0 PSF	DATE	10/25/06		
BC DL	2.0 PSF	DRW	HCSR215	06298024	
BC LL	0.0 PSF	HC-ENG	JB/WHK		
TOT.LD.	32.0 PSF	SEQN-	26893		
DUR.FAC.	1.25	FROM	LR3		
SPACING	24.0"	JREF	1T1R215	Z02	



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION, TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719), AND AISC (WOOD TRUSS COUNCIL OF AMERICA, 1000 N. ALPINE 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. ALPINE ENGINEERED 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 IBCS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CORNER PLATES ARE MADE OF 20/18/16GA (4-11/16) ASTM A653 GRADE 40/60 (40 KSI) GALV. STEEL. APPLY TO EACH JOINT OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF TRUSS SHALL BE PERFORMED AS OF TPI 2002 SEC.3. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT DESIGN SHOWING THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.

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 1950 Marley Drive  
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Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

7.25.0503

Scale = .3125"/Ft.

( 3892 /KENT MARSHALL /OWNER BUILDER , \*\* GE5 )

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

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

Wind reactions based on MWFRS pressures.

Gable end supports 8" max rake overhang.

See DWGS A11015EE0405 & GBLLETTIN0405 for more requirements.

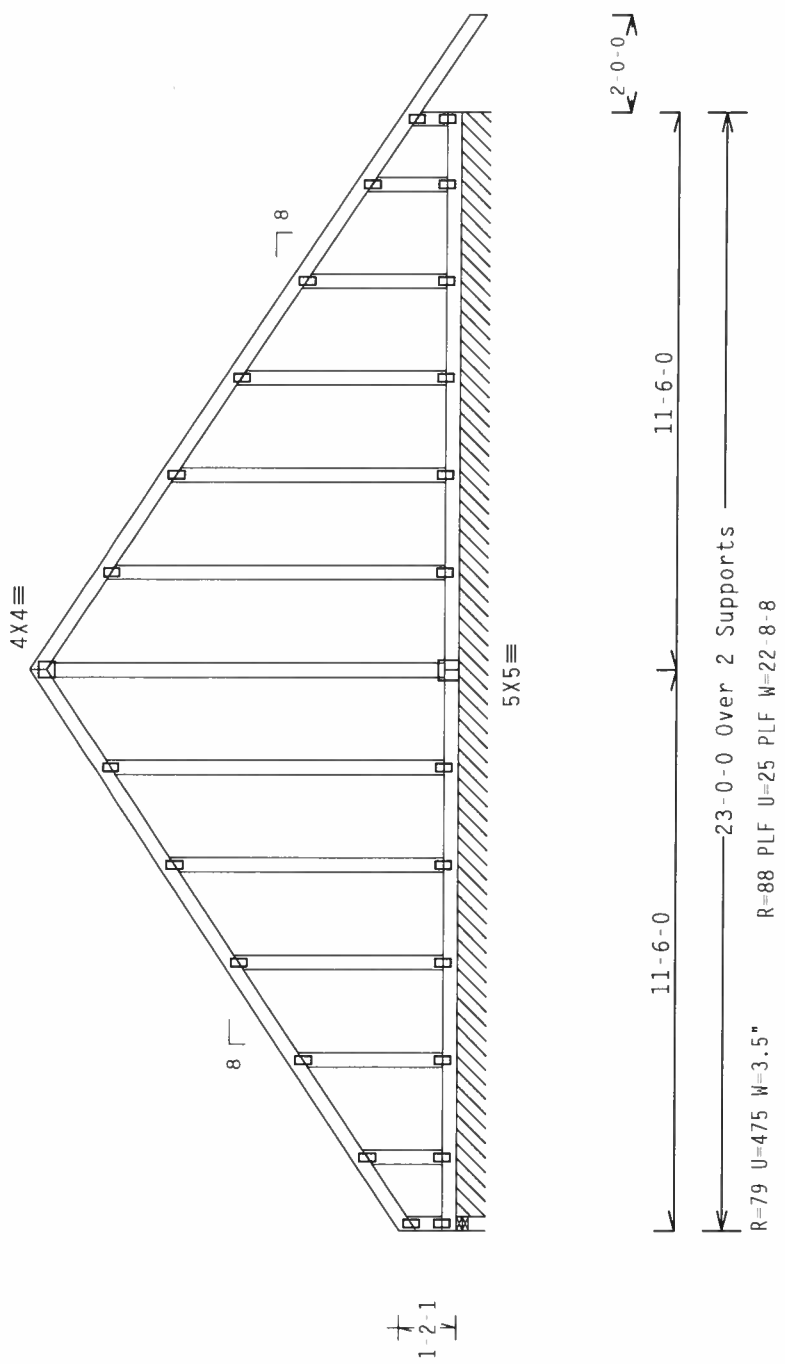
Plates sized for a minimum of 3.00 sq.in./piece.

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

The overall height of this truss excluding overhang is 8-10-1.

Fasten rated sheathing to one face of this frame.

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



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.25.0503

QTY:1

Scale = .25"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE BEST OF BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DORRIS DR., SUITE 100, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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TC LL	20.0 PSF	REF	R215-- 8098
TC DL	10.0 PSF	DATE	10/25/06
BC DL	10.0 PSF	DRW	HCUSR215 06298033
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	26864
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1T1R215_Z02

**ALPINE**  
 Alpine Engineered Products, Inc.  
 1950 Marley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

**JAMES F. COLLINS, JR.**  
 LICENSED PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 52712  
 Oct 25 06



110 mph wind, 16.04 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.

End verticals not exposed to wind pressure.

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

Plates sized for a minimum of 3.00 sq.in./piece.

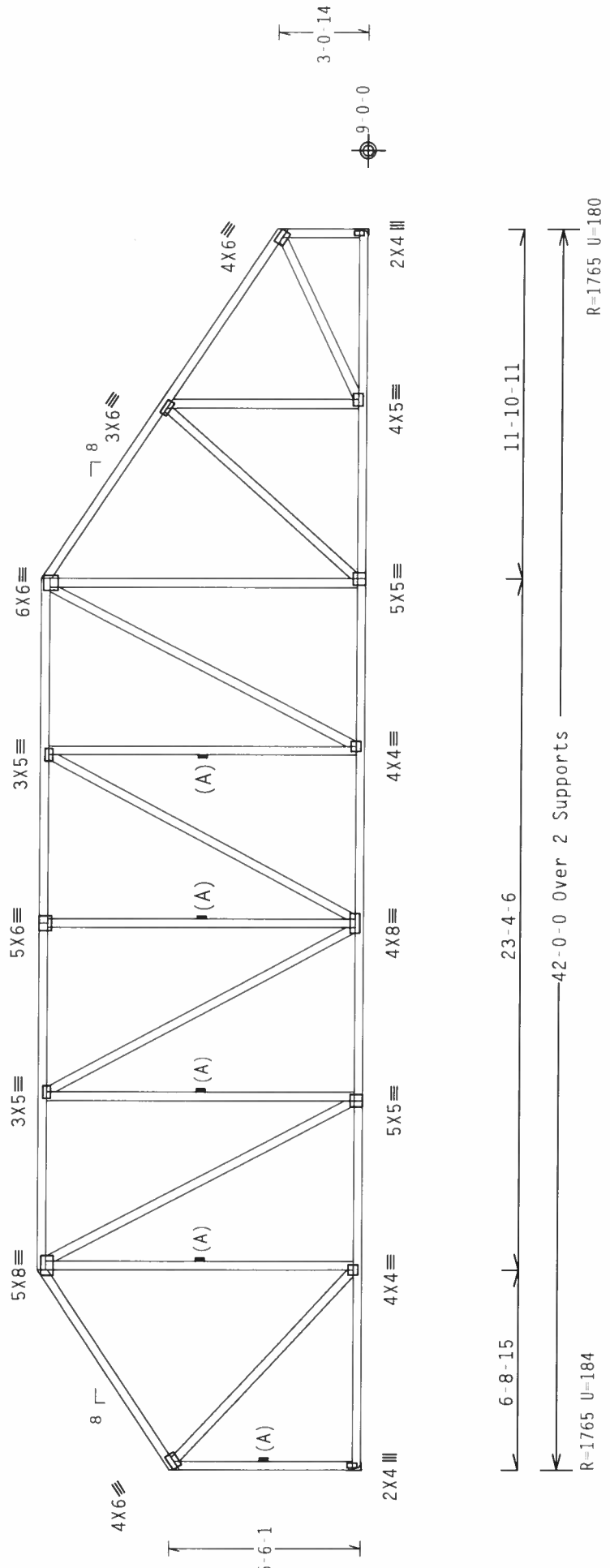
Top chord 2x4 SP #2 N  
 Bot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503

Scale = .1875"/Ft.

REF	R215 --	8100
DATE	10/25/06	
DRW	HCSR215	06298017
HC-ENG	JB/WHK	
SEQN-	47447	
FROM	LRB	
JREF-	1T1R215_Z02	

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 Engineered Products, Inc.  
 1950 Marley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

Professional Engineer  
 State of Florida  
 No. 53212  
 Oct 23 2006

Oct 23 2006

110 mph wind, 16.04 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.

End verticals not exposed to wind pressure.

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

Plates sized for a minimum of 3.00 sq.in./piece.

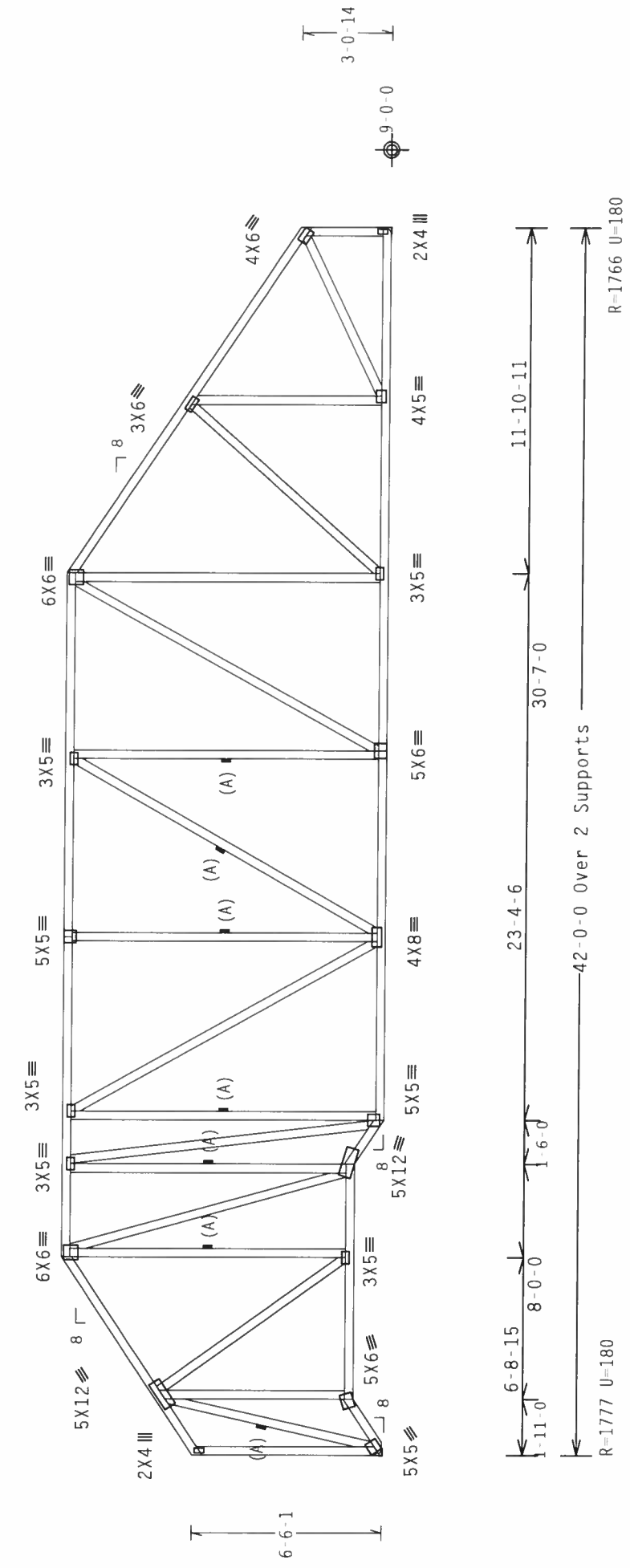
Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

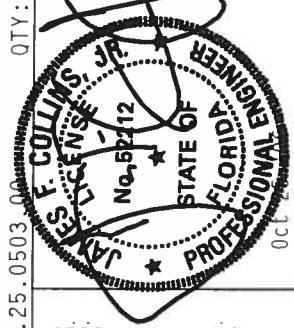
(A) Continuous lateral bracing equally spaced on member.

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

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



PLT TYP. Wave	Design Crit: TPI-2002 (STD) /FBC	QTY: 6	FL / - / 5 / - / - / R / -	Scale = .1875" / Ft.
	Cq/RT=1.00(1.25)/10(0)	7.25.0503		REF R215 -- 8101
				DATE 10/25/06
				DRW HCUSR215 06298003
				HC-ENG JB/MHK
				SEON- 47439
				FROM LRB
				JREF- 1T1R215_Z02



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, INC., 11111 W. 30<sup>th</sup> D'ONDORIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 LITFIBER LN, 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. ALPINE ENGINEERED 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 A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND 1/8" (1/4" MIN) 4093 GRADE 40/60 (A36) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER THE DESIGN, POSITION PER DRAWINGS LOGA 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEAL OR THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR THE BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844

FL Certificate of Authorization # 567



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.  
 (A) Continuous lateral bracing equally spaced on member.

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

Plates sized for a minimum of 3.00 sq.in./piece.

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

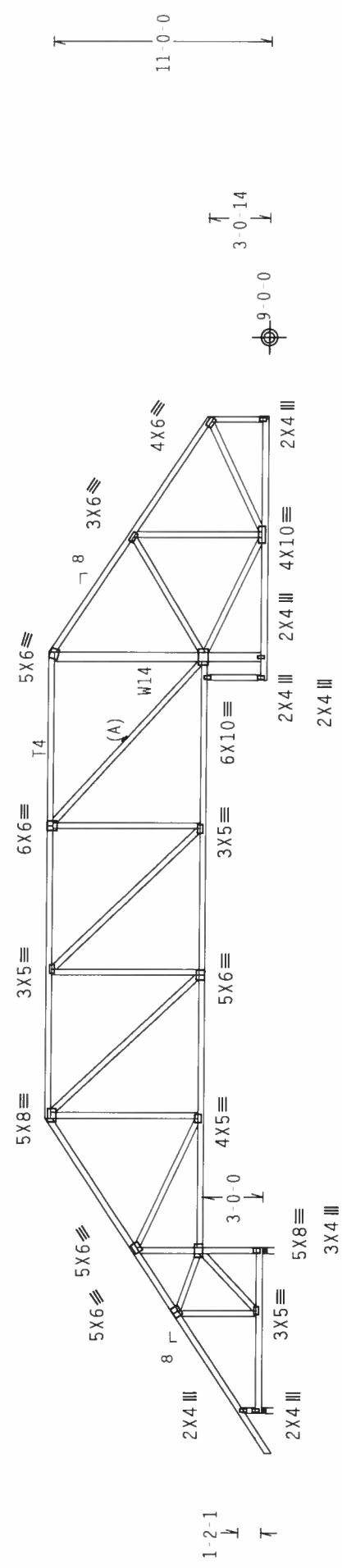
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

LATERALLY BRACE BC AT 24" OC IN LIEU OF RIGID CEILING.  
 LATERALLY BRACE BC ABOVE FILLER AT 24" OC.  
 CHORD ENDS TO BE LATERALLY BRACED.

Top chord 2x4 SP #2 N :T4 2x4 SP #2 Dense:  
 Bot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N :W14 2x6 SP #2 Dense:



8-1-12  
 14-8-15  
 8-3-8  
 28-5-0  
 23-4-6  
 11-10-11  
 12-4-3  
 0-11-5  
 50-0-0 Over 3 Supports

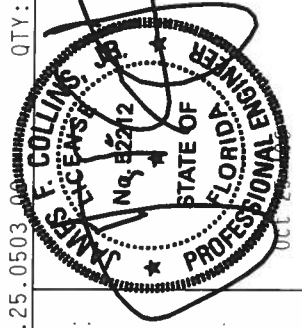
R=349 U=180 W=3.5"  
 R=2269 U=180 W=3.5"

R=1722 U=180 H=Simpson HUS26  
 w/ (4) 10d Common, 0.148"x3.0" nails in Truss  
 w/ (14) 10d Common, 0.148"x3.0" nails in Girder  
 Girder is (2)2X6 min. So.Pine

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

Scale = .125" / Ft.

TC LL	20.0 PSF	REF	R215--	8103
TC DL	10.0 PSF	DATE	10/25/06	
BC DL	10.0 PSF	DRW	HCUSR215	06298005
BC LL	0.0 PSF	HC-ENG	MNM/WHK	
TOT.LD.	40.0 PSF	SEQN-	30155	
DUR.FAC.	1.25	FROM	LRB	
SPACING	24.0"	JREF-	1T1R215	Z02



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL PLASTERING BOARD, D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 FOREST 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. ALPINE ENGINEERED 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 AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/10/16GA (M/JI/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY ANY INSPECTOR'S COMMENTS TO THE FACE OF THE TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTOR'S COMMENTS SHALL BE PER AMECS AS OF 1/11/2002, 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.

ALPINE

Alpine Engineered Products, Inc.  
 1950 Mailey Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

PLT TYP. Wave

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

110 mph wind, 15.00 ft mean ht, 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.

Wind reactions based on MWFRS pressures.

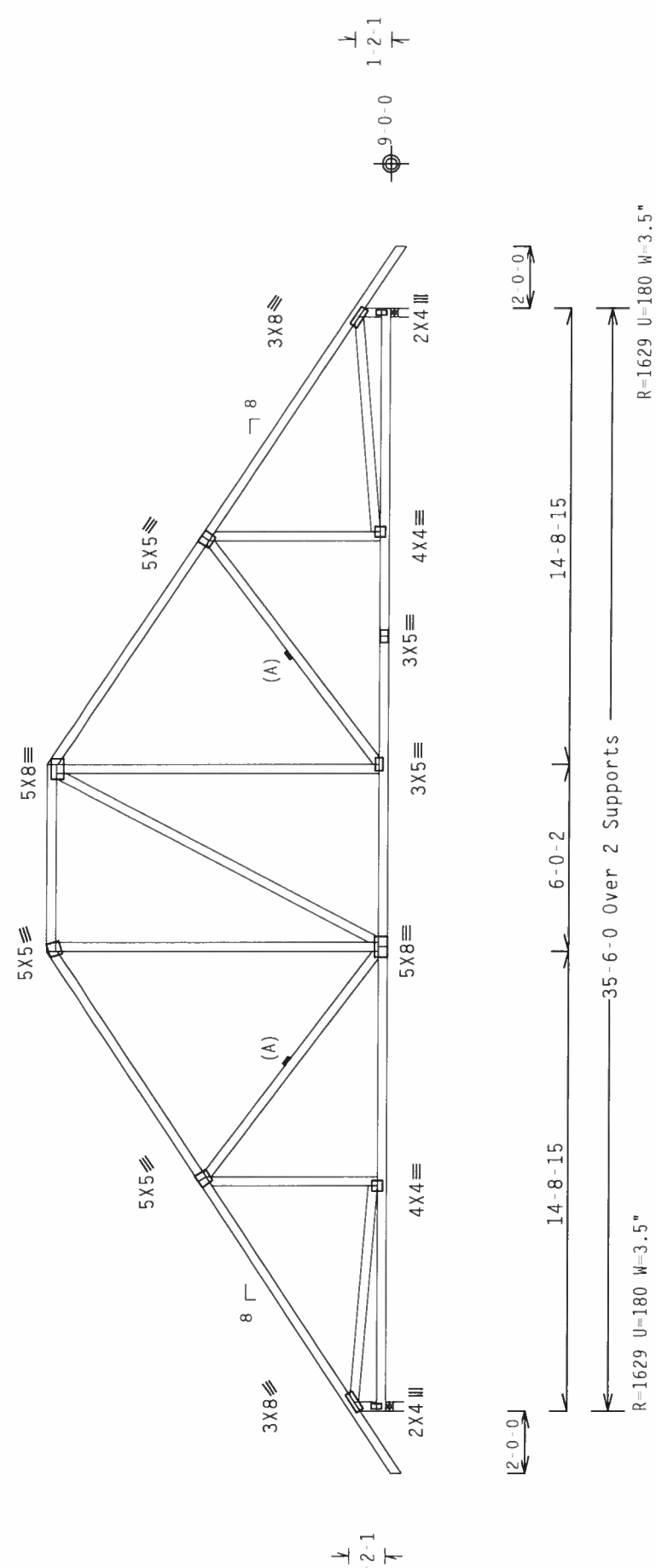
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

(A) Continuous lateral bracing equally spaced on member.

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

Plates sized for a minimum of 3.00 sq.in./piece.



Design Crit: TPI-2002 (STD) / FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503

Scale = .1875" / Ft.

REF	R215 --	8104
DATE	10/25/06	
DRW	HCUSR215	06298029
HC-ENG	JB/WHK	
SEQN	26845	
FROM	LRB	
JREF	1T1R215_Z02	

PLT TYP. Wave

ALPINE

Alpine Engineered Products, Inc.  
 1950 Manley Drive  
 Gaines City, FL 32644  
 FL Certificate of Authorization # 567

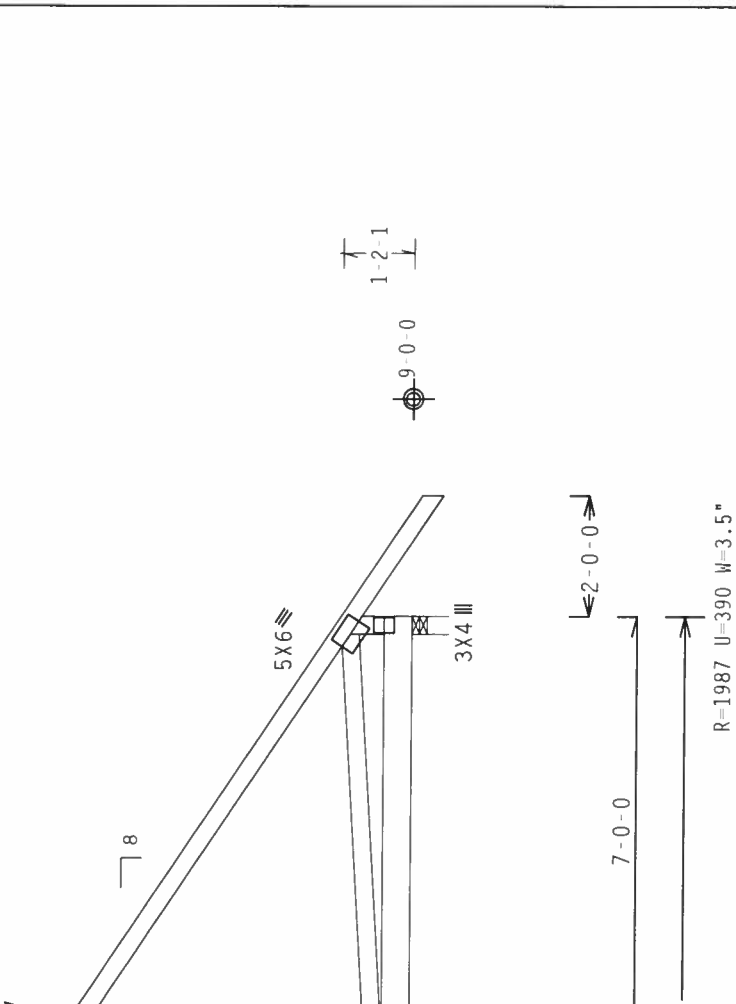
Professional Engineer  
 STATE OF FLORIDA  
 No. 5212  
 JAMES F. COLLINS  
 No. 5212  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 Oct 29 2006



**SPECIAL LOADS**  
 ----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 64 PLF at -2.00 to 64 PLF at 20.00  
 BC - From 5 PLF at -2.00 to 5 PLF at 0.00  
 BC - From 20 PLF at 0.00 to 20 PLF at 18.00  
 BC - From 5 PLF at 18.00 to 5 PLF at 20.00  
 TC - 195 LB Conc. Load at 7.06, 9.00, 10.94  
 BC - 760 LB Conc. Load at 7.00, 11.00  
 BC - 79 LB Conc. Load at 9.00

Deflection meets L/360 live and L/240 total load.  
 Plates sized for a minimum of 3.00 sq.in./piece.

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2 N:  
 Bot chord 2x6 SP SS  
 Webs 2x4 SP #2 N  
 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.  
 Wind reactions based on MWFRS pressures.  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
 The overall height of this truss excluding overhang is 5-10-1.



Design Crit: TPI-2002 (STD) /FBC  
 Cq/RT=1.00 (1.25) /10 (0) 7.25.0503.00  
 R=1987 U=390 W=3.5"

PLT TYP. Wave	Scale = .3125" / Ft.
REF R215 -- 8106	TC LL 20.0 PSF
DATE 10/25/06	TC DL 10.0 PSF
DRW HCUR215 06298008	BC DL 10.0 PSF
HC-ENG JB/WHK	BC LL 0.0 PSF
SEQN- 47431	TOT.LD. 40.0 PSF
FROM LRB	DUR.FAC. 1.25
JREF- IT1R215_Z02	SPACING 24.0"

**ALPINE**  
 Alpine Engineered Products, Inc.  
 1950 Marley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

**Professional Engineer**  
 F. COLLINS, JR.  
 No. 62212  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PRODUCTS INTERNATIONAL), D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6100 ENTERPRISE LN, 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.

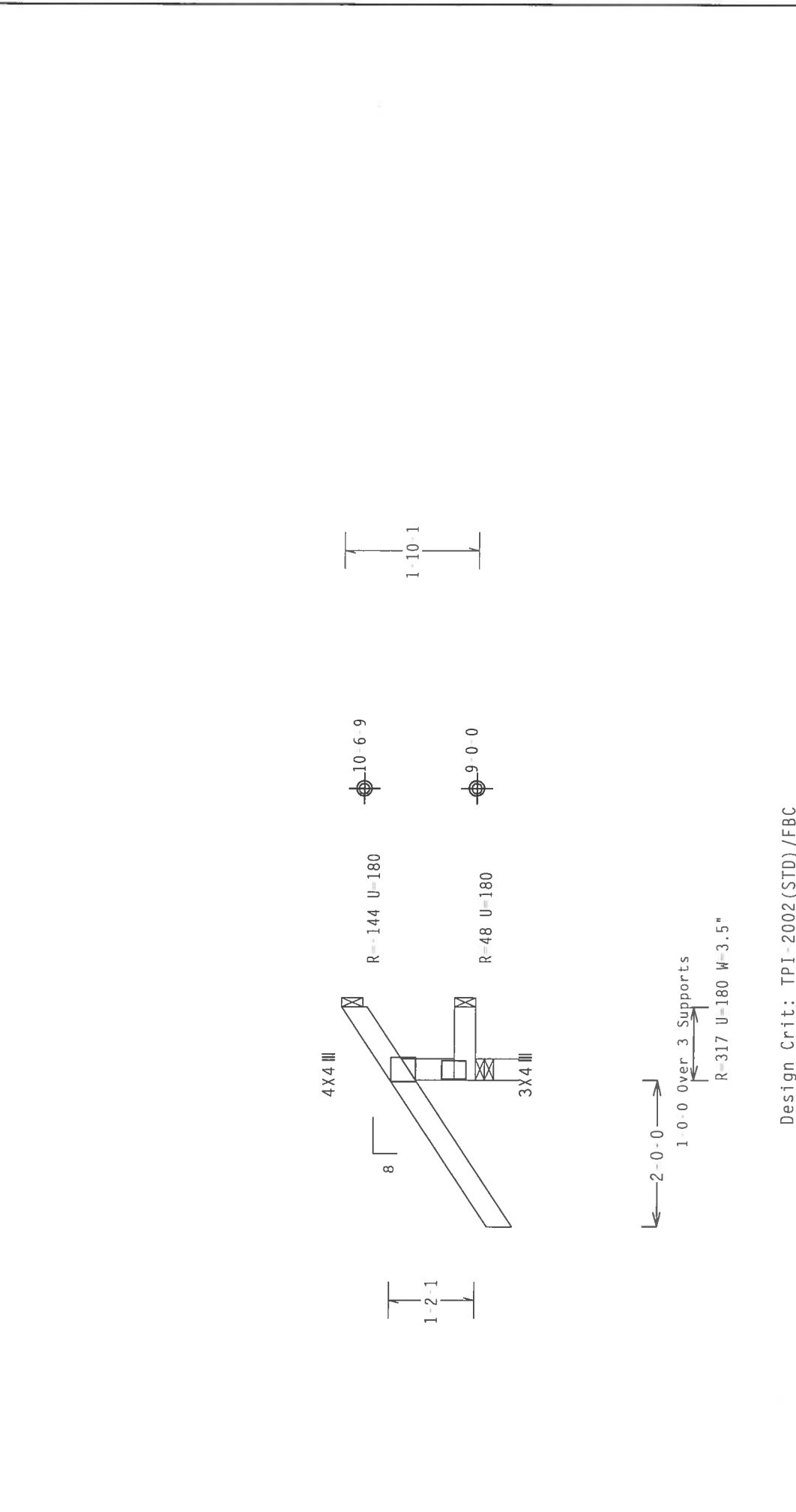
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD OR FABRICATE, OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THIS TRUSS. POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (3) SHALL BE PERFORMED BY THE DESIGNER. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE DESIGNER'S USE. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

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.

Wind reactions based on MWFRS pressures.  
 Plates sized for a minimum of 3.00 sq.in./piece.

Deflection meets L/360 live and L/240 total load.  
 The overall height of this truss excluding overhang is 1-10-1.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:4 FL/-/5/-/-/R/- Scale =.5"/Ft.

TC LL	20.0 PSF	REF	R215-- 8107
TC DL	10.0 PSF	DATE	10/25/06
BC DL	10.0 PSF	DRW	HCUSR215 06298014
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	26876
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1T1R215_Z02

**ALPINE**

Alpine Engineered Products, Inc.  
 1950 Manley Drive  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 567

**ALPINE ENGINEERED PRODUCTS, INC.**  
 LICENSE NO. 52212  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

0ct 2006

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR BUILDING COMPONENT SAFETY AND DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/19/16GA (H-/H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING INDICATES ACCEPTANCE OF THE DESIGN. RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHALL BE THE DESIGNER'S. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.

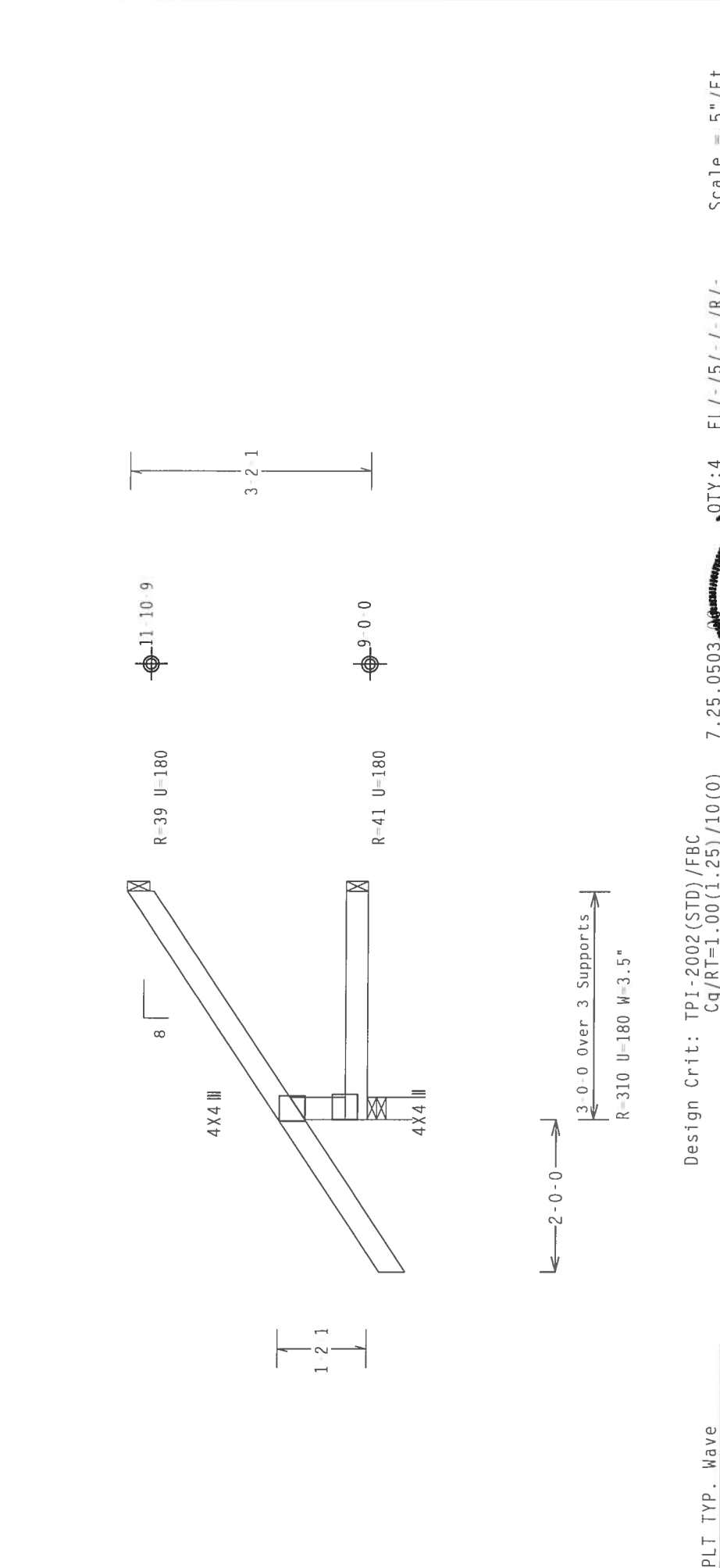
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/19/16GA (H-/H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING INDICATES ACCEPTANCE OF THE DESIGN. RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHALL BE THE DESIGNER'S. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.

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

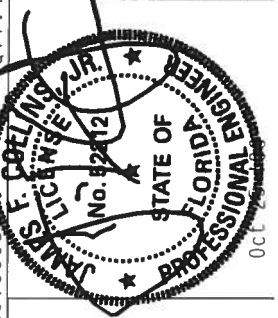
Wind reactions based on MWFRS pressures.  
 Plates sized for a minimum of 3.00 sq.in./piece.

110 mph wind, 15.00 ft mean ht, 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.

Deflection meets L/360 live and L/240 total load.  
 The overall height of this truss excluding overhang is 3-2 1/2.



PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0)	7.25.0503	QTY: 4	FL/-/5/-/-/R/-	Scale = .5" / Ft.
				TC LL	20.0 PSF
				TC DL	10.0 PSF
				BC DL	10.0 PSF
				BC LL	0.0 PSF
				TOT.LD.	40.0 PSF
				DUR.FAC.	1.25
				SPACING	24.0"
				REF	R215 -- 8108
				DATE	10/25/06
				DRW	HCUSR215 06298013
				HC-ENG	JB/WHK
				SEQN-	26878
				FROM	LRB
				JREF-	1T1R215_Z02



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE BUILDING RESEARCH CORPORATION, 471 MADISON DR., SUITE 200, MADISON, WI 53719, AND AISC (STEEL TRUSS COUNCIL OF AMERICA, 6300 INTERSTATE 40, 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. ALPINE ENGINEERED 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 AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (4-H/S/K) ASTM A653 GRADE 40/60 (4, K/H-S) GALV. STEEL. APPLY GALVANNEAL TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA 2. ALL DIMENSIONS SHALL BE PER AISC AS OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. THE 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 AISC/TPI 1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.  
 1950 Manley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567



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

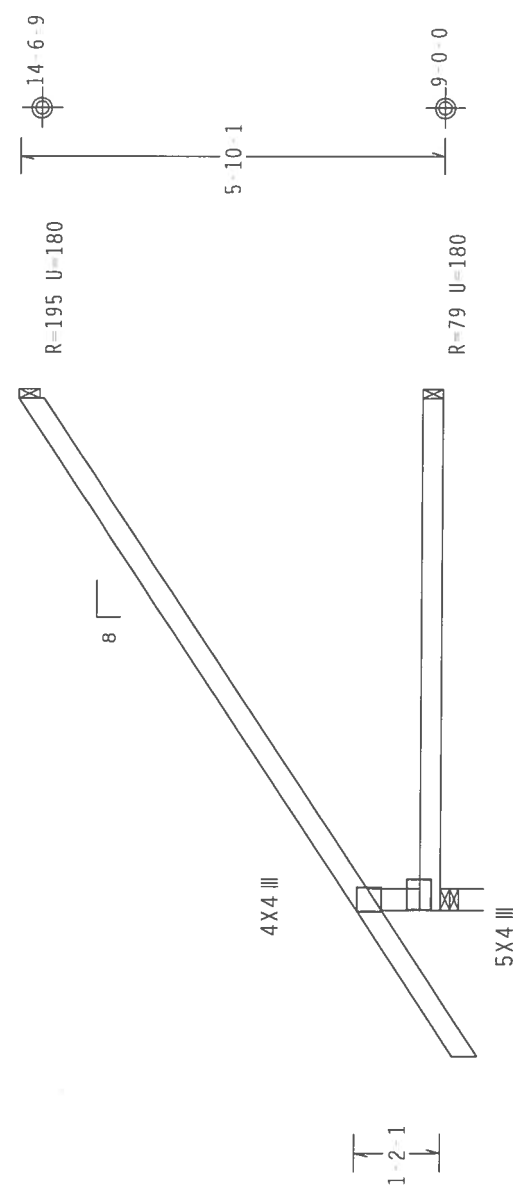
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 5-10-1.

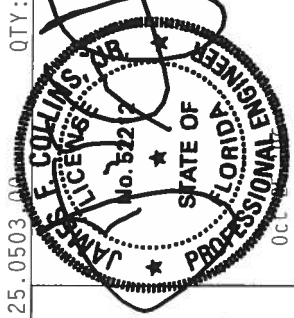
Plates sized for a minimum of 3.00 sq.in./piece.



← 2-0-0 →  
 ← 7-0-0 Over 3 Supports →  
 R-451 U=180 W-3.5"

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503.00

QTY: 3	FL: -/5/-/-/R/-	Scale = .375"/Ft.
TC LL	20.0 PSF	REF R215 -- 8110
TC DL	10.0 PSF	DATE 10/25/06
BC DL	10.0 PSF	DRW HCUSR215 06298015
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 26889 REV
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- IT1R215_Z02



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC61 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE IBC, 1300 SOUTH DORFDRIO DR., SUITE 200, MADISON, WI 53719, AND NEMA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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**ALPINE**  
 Alpine Engineered Products, Inc.  
 1950 Marley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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

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

Wind reactions based on MMFRS pressures.

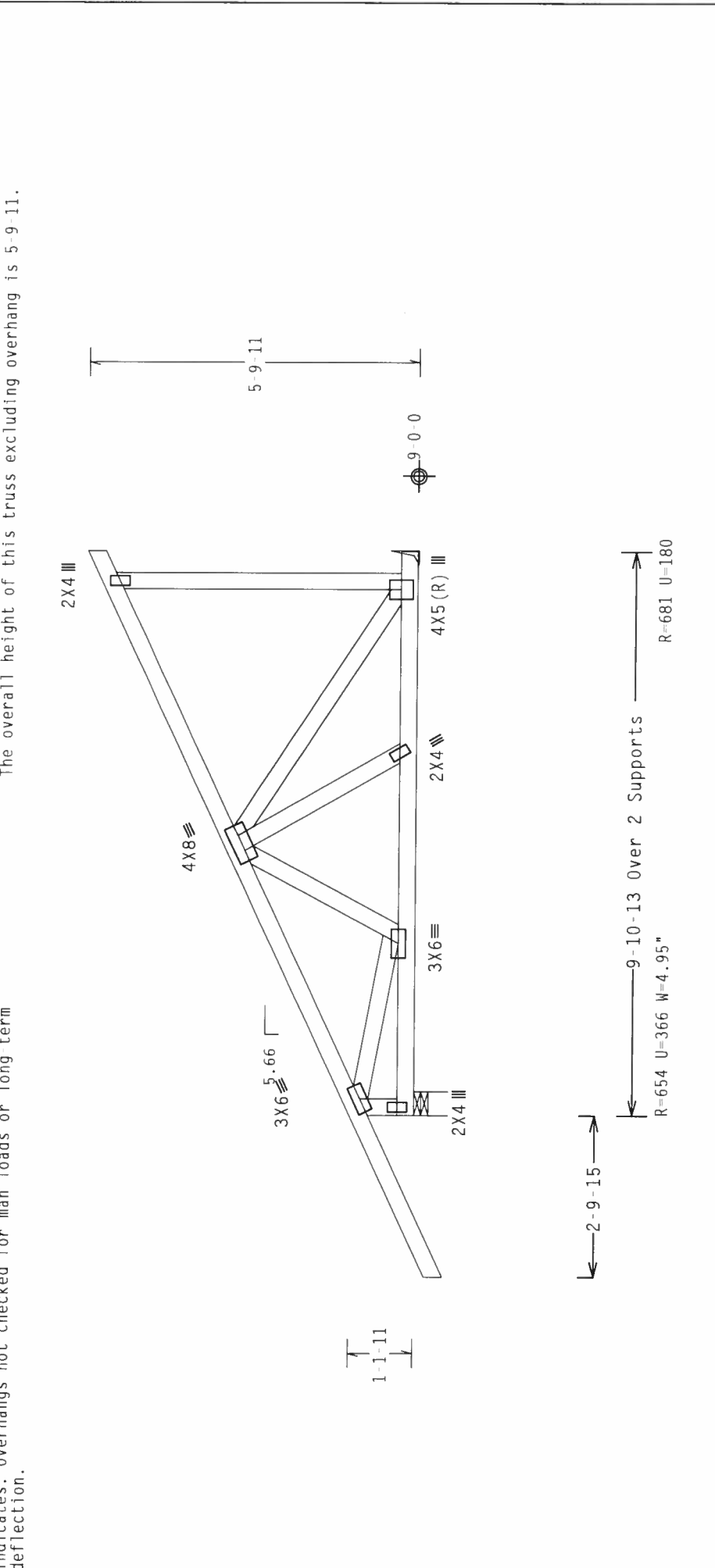
Deflection meets L/360 live and L/240 total load.

Top chord overhangs have been checked only for loads as indicates. Overhangs not checked for man loads or long-term deflection.

**SPECIAL LOADS**  
 (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 62 PLF at -2.83 to 62 PLF at 9.90  
 BC - From 4 PLF at -2.83 to 4 PLF at 0.00  
 TC - From 20 PLF at 0.00 to 20 PLF at 9.90  
 BC - 79 LB Conc. Load at 4.22  
 TC - 248 LB Conc. Load at 7.05  
 BC - 96 LB Conc. Load at 1.39  
 TC - 82 LB Conc. Load at 4.22  
 BC - 117 LB Conc. Load at 7.05

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 5-9-11.



PLT TYP. Wave

Design Crit: TPI-2002 (STD) / FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503

Scale = .375" / Ft.

TC LL	20.0 PSF	REF	R215 - 8111
TC DL	10.0 PSF	DATE	10/25/06
BC DL	10.0 PSF	DRW	HCUSR215 06298010
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	26903
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	ITIR215_Z02

ALPINE  
 Alpine Engineered Products, Inc.  
 350 Manley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 367

**WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING PRODUCTS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

**IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

SAINTS ENGINEERING, INC.  
 No. 62872  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 Oct 25 06



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.

Right end vertical not exposed to wind pressure.

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

Plates sized for a minimum of 3.00 sq.in./piece.

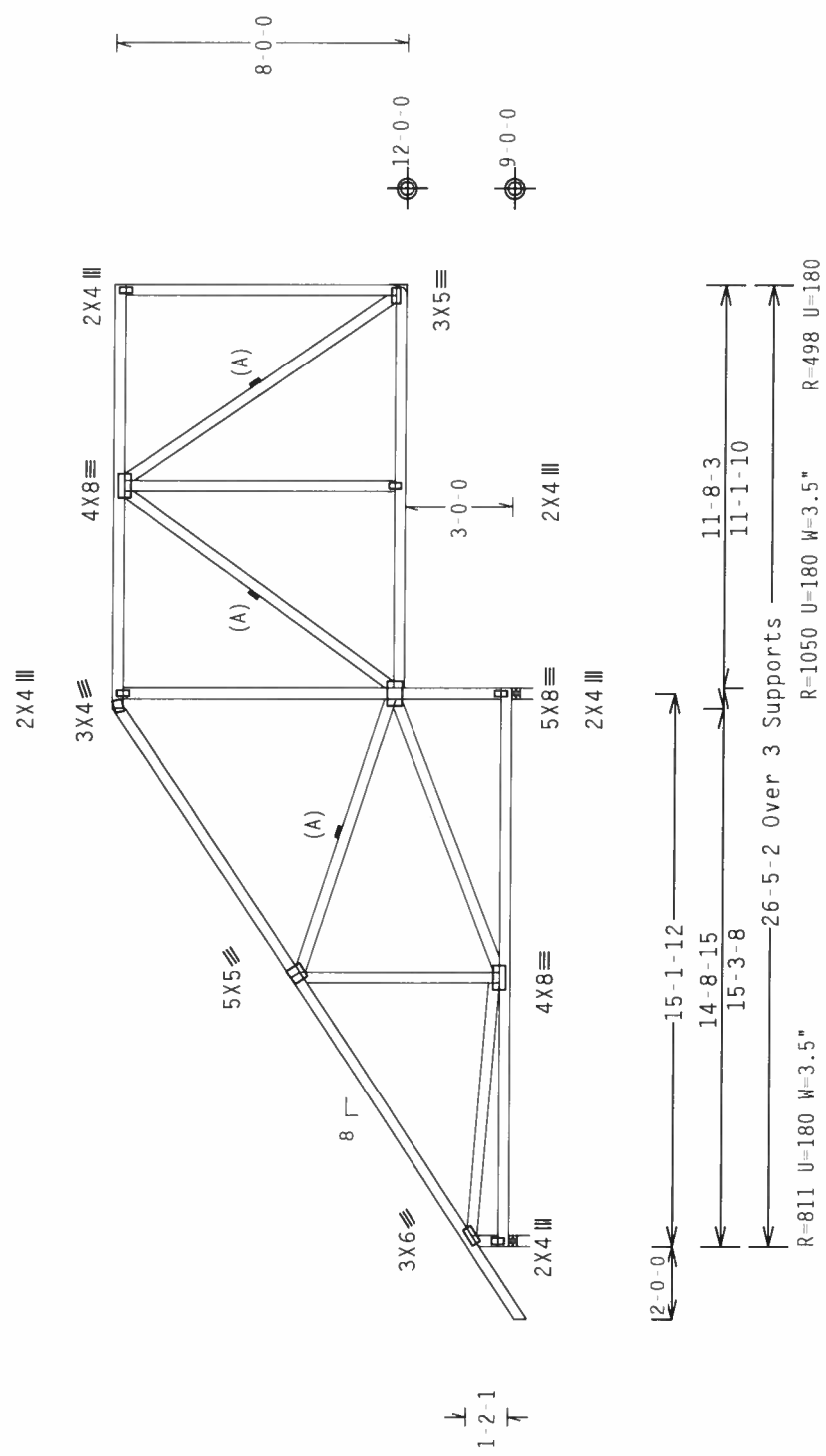
Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

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



Design Crit: TPI-2002(STD)/FBC

Scale = .1875" / Ft.	REF R215 - - 8113
DATE 10/25/06	DRW HCUSR215 06298002
HC-ENG JK/WHK	SEQN- 28110
FROM LRB	JREF- 1T1R215_Z02

QTY: 3 EL / - / 5 / - / - / 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 24.0"

ALPINE ENGINEERS  
STATE OF FLORIDA  
No. 61212  
JAMES F. PULLINS  
Professional Engineer

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 63 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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. ALPINE ENGINEERS 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 IBCS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/19/16GA (P-4/J/S/K) ASTM A653 GRADE 40/60 (IN. K/H-S) GALV. STEEL. APPLY ANY INSPECTOR OF PLATES TO BE USED. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY 11-2002, SEC. 3 FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/1PI 1 SEC. 2.

ALPINE

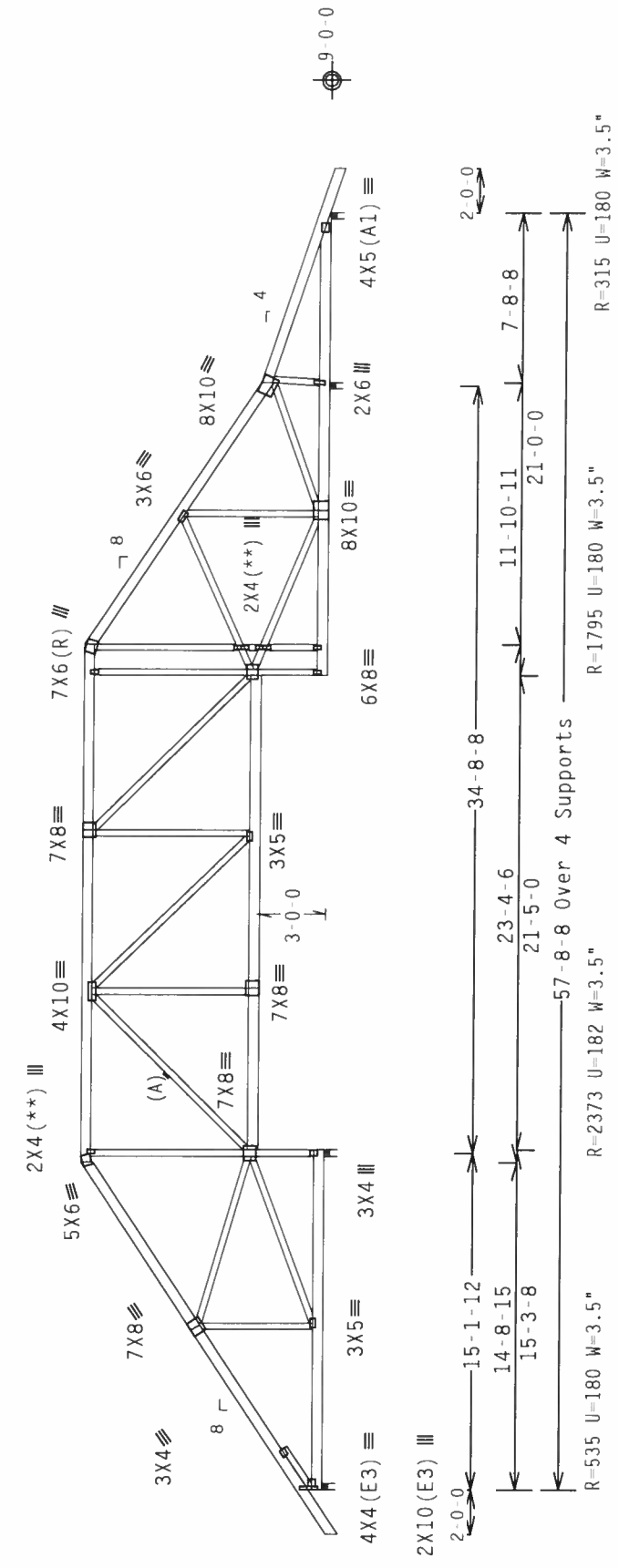
Alpine Engineered Products, Inc.  
1950 Marley Drive  
James City, FL 33844  
FL Certificate of Authorization # 567

PLT TYP. Wave

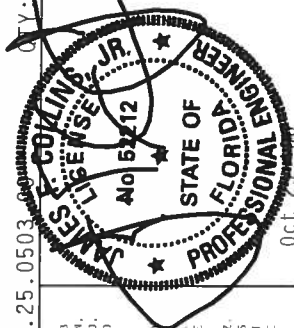
(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.  
 110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge. CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
 WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

(A) Continuous lateral bracing equally spaced on member.  
 Deflection meets L/360 live and L/240 total load.  
 Plates sized for a minimum of 3.00 sq.in./piece.  
 The overall height of this truss excluding overhang is 11-0-0.



Note: All Plates Are 2X4 Except As Shown.  
 Design Crit: TPI-2002 (STD) /FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0503  
 Scale = .125" / Ft.  
 REF R215 -- 8114  
 DATE 10/25/06  
 DRW HCUSR215 06298025  
 HC-ENG JB/WHK  
 SEQN- 26940  
 FROM LRB  
 JREF- 1T1R215\_Z02



ALPINE  
 Alpine Engineered Products, Inc.  
 1950 Marley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS & STRUCTURAL PRODUCTS), 1000 ENTERPRISE BLVD., MADISON, WI 53719, AND METCA (WOOD TRUSS COUNCIL OF AMERICA, 6100 ENTERPRISE BLVD., 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. ALPINE ENGINEERED 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 IBCS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE TRUSSES OR PLATES ARE MADE OF 20/18/16GA (24.0/17.5/15.5) ASH A953 GRADE 40/60 (40, K/H-S) GALV. STEEL. APPLY ALL APPLICABLE CODES AND REGULATIONS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS (EQA 2). ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED. A SEAL OR THIS 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.



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

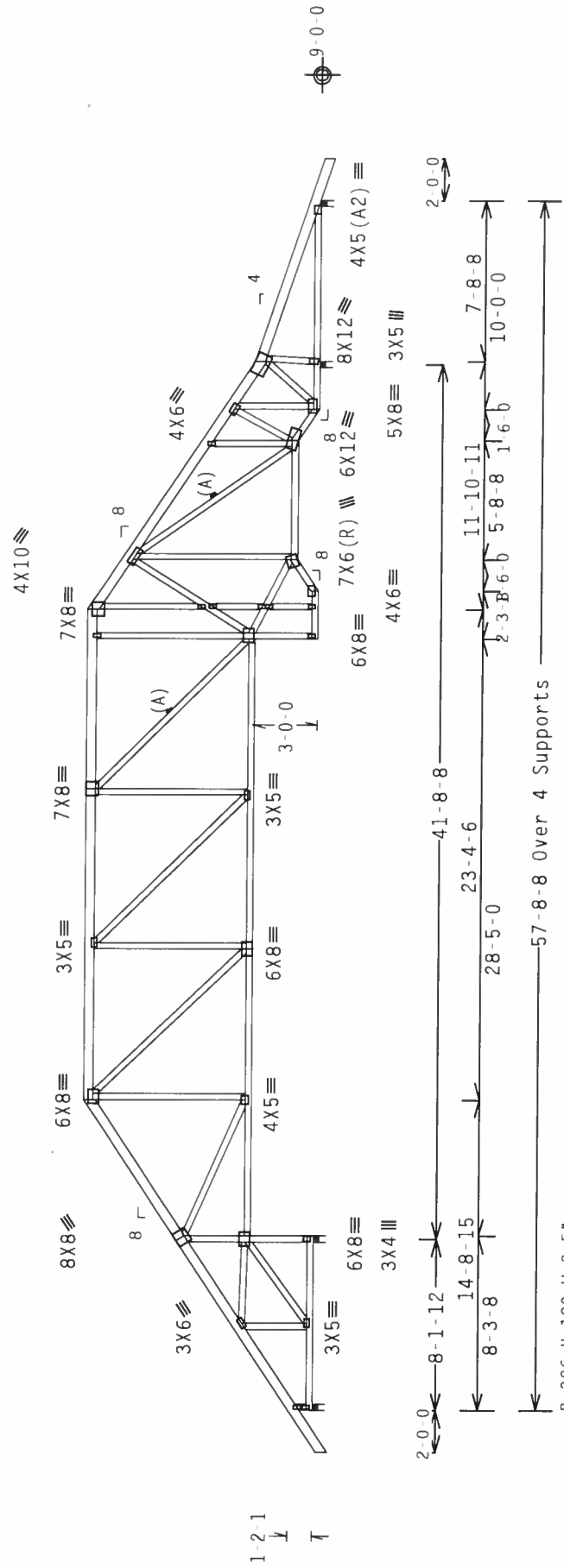
Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

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

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS. Laterally brace bottom chord above filler at 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.

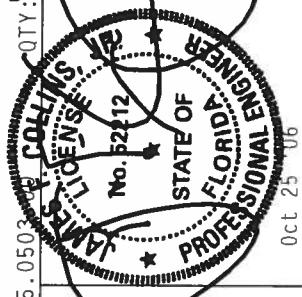


Note: All Plates Are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.25.0503

Scale = .125" / Ft.



PLT TYP. Wave	FL / - / 5 / - / R / -	Scale = .125" / Ft.
REF	R215 - -	8116
DATE	10/25/06	
DRW	HCUSR215	06298022
HC-ENG	JB / WHK	
SEQN-	47425	
FROM	LRB	
JREF-	11R215	702

**ALPINE**

Alpine Engineered Products, Inc.  
 1950 Marley Drive  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED 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 AIAA) AND TPI ALPINE TRUSS DESIGN. TRUSS OR PLATES ARE MADE OF 20/10/16GA (24-HI/5X8) ASH 4053 GRADE 40760 (IN. K/H-S) GALV. STEEL. APPLY TO ALL TRUSSES UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY A SEAL OR THIS SEAL SHALL BE THE SOLE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Oct 25 '06

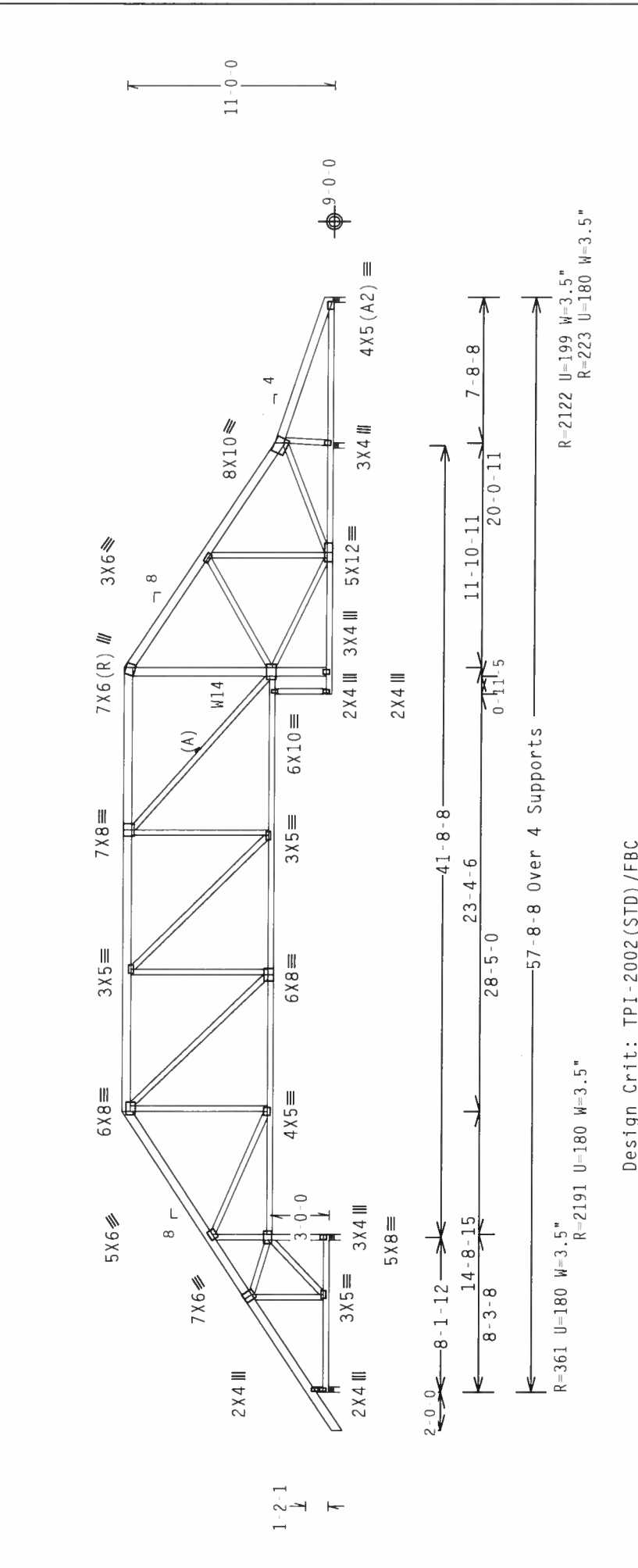
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

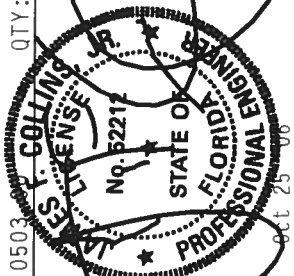
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Continuous lateral bracing equally spaced on member.  
 Deflection meets L/360 live and L/240 total load.  
 Plates sized for a minimum of 3.00 sq.in./piece.  
 The overall height of this truss excluding overhang is 11-0-0.

LATERALLY BRACE BC AT 24" OC IN LIEU OF RIGID CEILING.  
 LATERALLY BRACE BC ABOVE FILLER AT 24" OC.  
 CHORD ENDS TO BE LATERALLY BRACED.

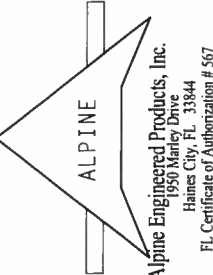


PLT TYP. Wave	Design Crit: TPI-2002 (STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.25.0503	QTY:1	FL/-/5/-/R/-	Scale = .125"/Ft.
	R=361 U=180 W=3.5" R-2191 U=180 W=3.5"		TC LL	20.0 PSF
			TC DL	10.0 PSF
			BC DL	10.0 PSF
			EC LL	0.0 PSF
			TOT.LD.	40.0 PSF
			DIR.FAC.	1.25
			SPACING	24.0"
			REF	R215 -- 8117
			DATE	10/25/06
			DRW	HCUSR215 06298007
			HC-ENG	MNM/WHK
			SEQN-	30146
			FROM	LRB
			JREF-	IT1R215_Z02



**WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TPI TRUSS SPECIFICATIONS, PUBLISHED BY TPI (TRUSS PLASTIC INSTITUTE, 503 DUNDRELL DR., SUITE 200, MADISON, WI 53719), AND THE AISC CONNECTIONS MANUAL, 13TH EDITION, PART 10, CHAPTER 10.1, 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. ALPINE ENGINEERED 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 RDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (4-H/5X) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. CONNECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEAL AD OF TPI-2002, SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER/ENGINEER PER ANS/1011 SEC. 2.









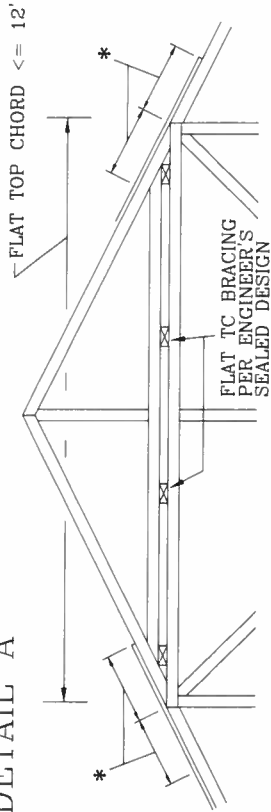
# PIGGYBACK DETAIL

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC, ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

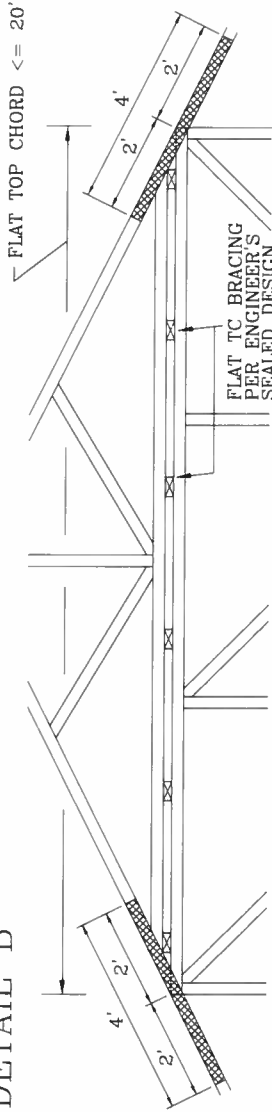
DETAIL A



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

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

DETAIL B

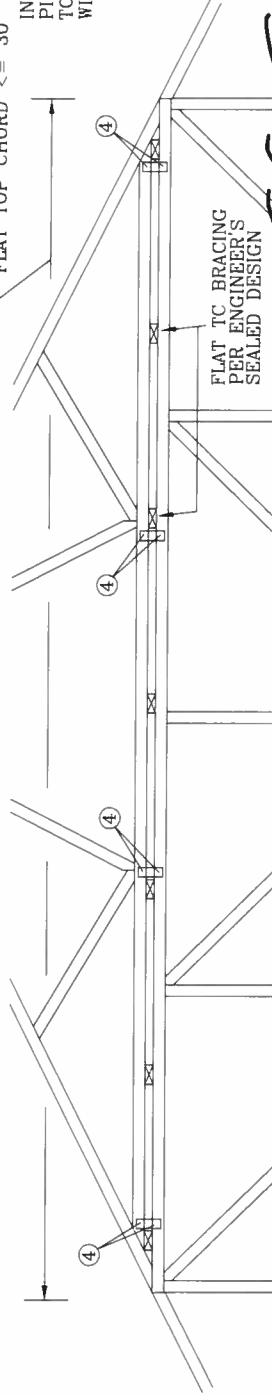


PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

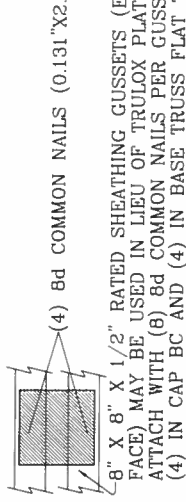
DETAIL C

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

FLAT TOP CHORD <= 30'



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

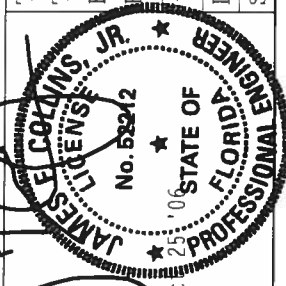


8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 8d COMMON NAILS PER GUSSET, (4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

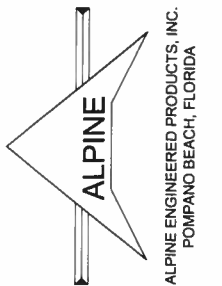
THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS INSTITUTE), 585 DUNFRIE DR., SUITE 200, MADISON, WI 53719, AND WTC (WOOD TRUSS COUNCIL OF AMERICA), 600 E. 17TH ST., SUITE 100, DENVER, CO 80202, FOR BEST PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORDS SHALL BE TOE-NAIL ATTACHED TO STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED 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 CONTRACTORS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD CONSTRUCTION) SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. ALL CONNECTOR PLATES ARE MADE OF 2018/7666 (W/H/S/K) ASTM A653 GRADE 40/60 (K/H/S) GALV. STEEL. ALL TRUSS AND CONNECTOR PLATES SHALL BE INSPECTED AND ACCEPTANCE OF THIS DESIGN, POSITION PER DRAWINGS AND A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSII/TPI 1 SEC. 2.



TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGBACKA0405
BC LL	PSF		-ENG DLJ/KAR
TOT. LD.	MAX 60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		



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

# PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

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

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C,

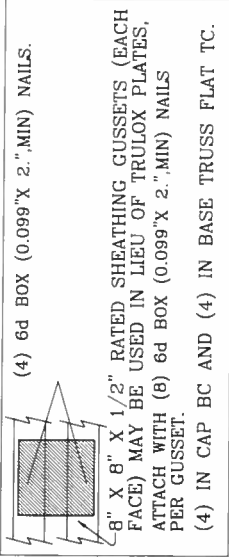
WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC

ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

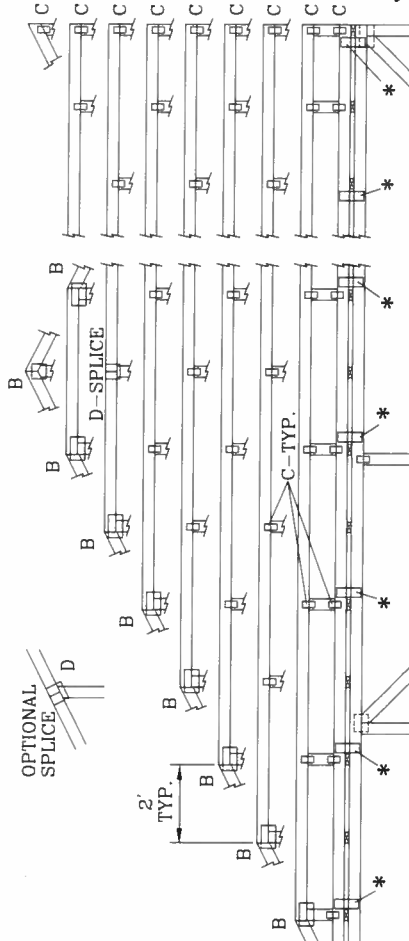
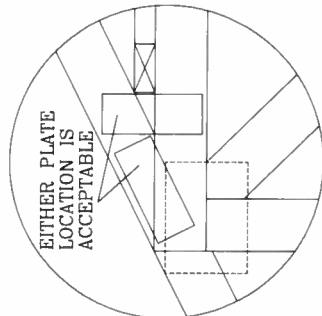
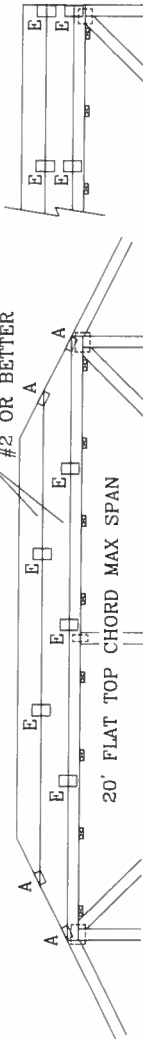
WIND TC DL=5 PSF, WIND BC DL=5 PSF

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



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

MAX SIZE OF 2X12 #2 OR BETTER



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

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS & PLATE INSTITUTE, 993 DUNDRIE DR., SUITE 200, MADISON, WI 53719 AND VTCA (WOOD TRUSS COUNCIL) 1000 W. WISCONSIN ST., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED 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. 40-60) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018B16GA (A/H/S/K) ASTM A653 SPEC. ON THIS DESIGN, POSITION PER DRAWINGS. ALLS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES FOLLOWED BY (D) SHALL BE 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 ENGINEERED PRODUCTS, INC.  
 POMPANO BEACH, FLORIDA

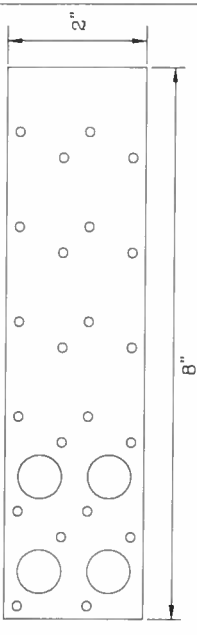
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

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

WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC.

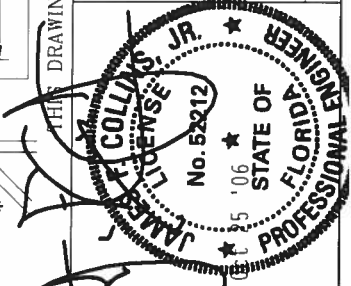
\* PIGGYBACK SPECIAL PLATE

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



DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

MAX LOADING	REF	PIGGYBACK
55 PSF AT 1.33 DUR. FAC.	DATE	04/14/05
50 PSF AT 1.25 DUR. FAC.	DRWG	PIGBACKB0405
47 PSF AT 1.15 DUR. FAC.		-ENG DLJ/KAR
SPACING		24.0"



# CLB WEB BRACE SUBSTITUTION

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

## NOTES:

- THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.
- ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

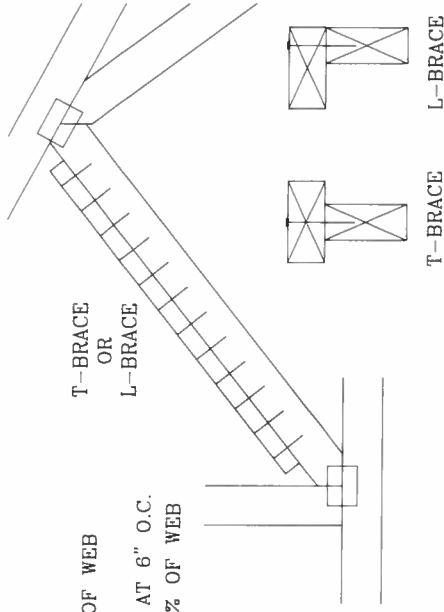
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4	
2X3 OR 2X4	2 ROWS	2X6	2-2X4	
2X6	1 ROW	2X4	1-2X6	
2X6	2 ROWS	2X6	2-2X4(*)	
2X8	1 ROW	2X6	1-2X8	
2X8	2 ROWS	2X6	2-2X6(*)	

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

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

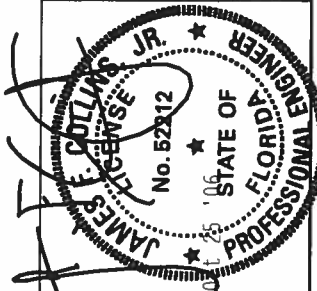
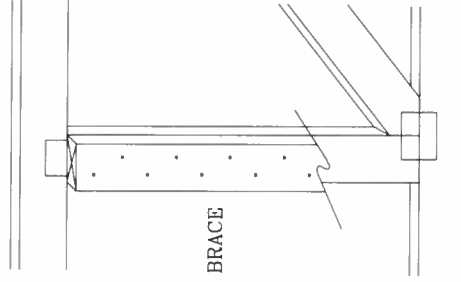
## T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE  
ATTACH WITH 16d NAILS AT 6" O.C.  
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



## SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.  
NO MORE THAN (1) SCAB PER FACE.  
ATTACH WITH 10d OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

THIS DRAWING REPLACES DRAWING 579.640

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS DESIGN, INC., 983 BROADFORD DR., SUITE 200, MADISON, WI 53719), AND UTCA (WOOD TRUSS COUNCIL OF AMERICA, 4301 W. 130TH ST., SUITE 100, CHICAGO, IL 60641) FOR BEST PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TRUSS AND CHORD MEMBER CONNECTOR PLATES ATTACHED TO STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED 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 ANY TRUSS. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD CONSTRUCTION), ALPINE CONNECTOR PLATES ARE MADE OF 2018/7666 (W/H/S/K) ASTM A653 GRADE 40/50 (C/K/H/S) GALV. STEEL. ALL TRUSS AND CHORD MEMBER CONNECTOR PLATES SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

# BEARING BLOCK NAIL SPACING DETAIL

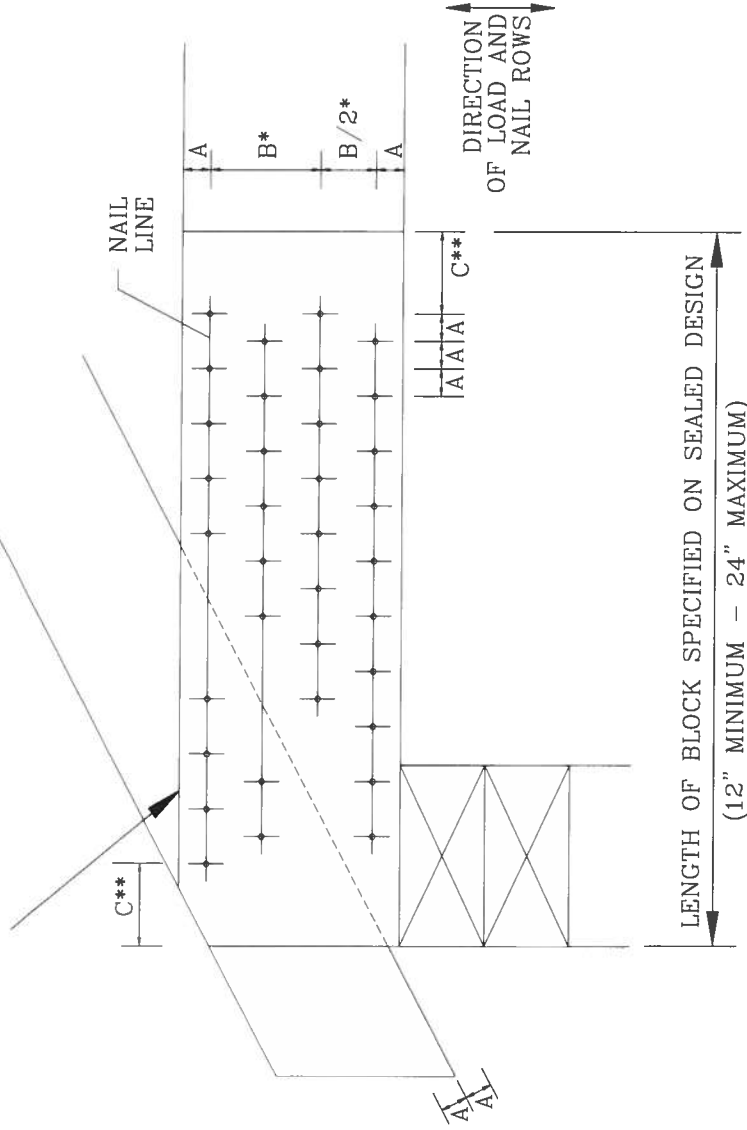
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:  
 \* SPACING MAY BE REDUCED BY 50%  
 \*\* SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE ( $F_c$ -perp) IS AT LEAST THAT OF THE CHORD.



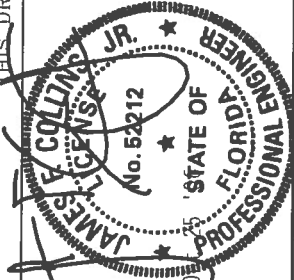
NAIL TYPE	CHORD SIZE			
	2X4	2X6	2X8	2X10 2X12
8d BOX (0.113"x2.5")	3	6	9	12 15
10d BOX (0.128"x3")	3	5	7	10 12
12d BOX (0.128"x3.25")	3	5	7	10 12
16d BOX (0.135"x3.5")	3	5	7	10 12
20d BOX (0.148"x4")	2	4	5	6 8
8d COMMON (0.131"x2.5")	3	5	7	10 12
10d COMMON (0.148"x3")	2	4	6	8 10
12d COMMON (0.148"x3.25")	2	4	6	8 10
16d COMMON (0.162"x3.5")	2	4	6	8 10
0.120"x2.5" GUN	3	6	8	11 14
0.131"x2.5" GUN	3	5	7	10 12
0.120"x3.0" GUN	3	6	8	11 14
0.131"x3.0" GUN	3	5	7	10 12

## MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES		
	A	B*	C**
8d BOX (0.113"x2.5")	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"x3")	7/8"	1 5/8"	2"
12d BOX (0.128"x3.25")	7/8"	1 5/8"	2"
16d BOX (0.135"x3.5")	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"x4")	1"	1 7/8"	2 1/4"
8d COMMON (0.131"x2.5")	7/8"	1 5/8"	2"
10d COMMON (0.148"x3")	1"	1 7/8"	2 1/4"
12d COMMON (0.148"x3.25")	1"	1 7/8"	2 1/4"
16d COMMON (0.162"x3.5")	1"	2"	2 1/2"
0.120"x2.5" GUN	3/4"	1 1/2"	1 7/8"
0.131"x2.5" GUN	7/8"	1 5/8"	2"
0.120"x3.0" GUN	3/4"	1 1/2"	1 7/8"
0.131"x3.0" GUN	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGBLK1103
	-ENG SJP/KAR



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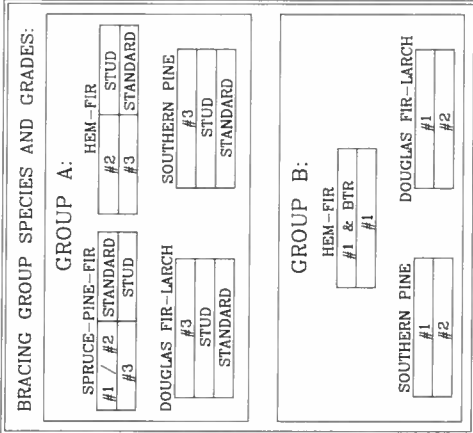
**\*\*IMPORTANT\*\*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTH A653 GRADE 50 YIELD STRENGTH STEEL. ALPINE APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY THIS DESIGN, POSITIONER SHALL SEAL ON TOP OF BOTTOM CHORD. INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PER ANNEX A3 OF TPI 1-008 SEC. 1.1. THE PROFESSIONAL ENGINEER DESIGNER SHALL VERIFY THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2



ALPINE ENGINEERED PRODUCTS, INC.  
 POMPANO BEACH, FLORIDA

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

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

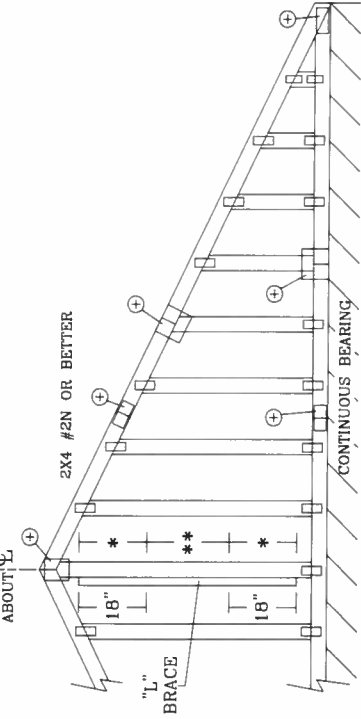


GABLE TRUSS DETAIL NOTES:

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

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

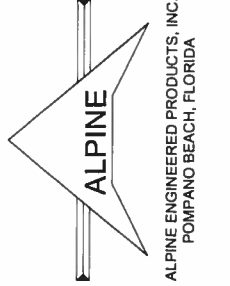
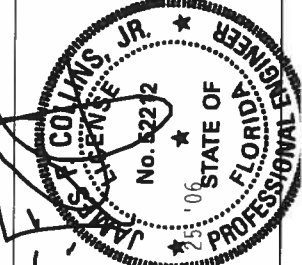
+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

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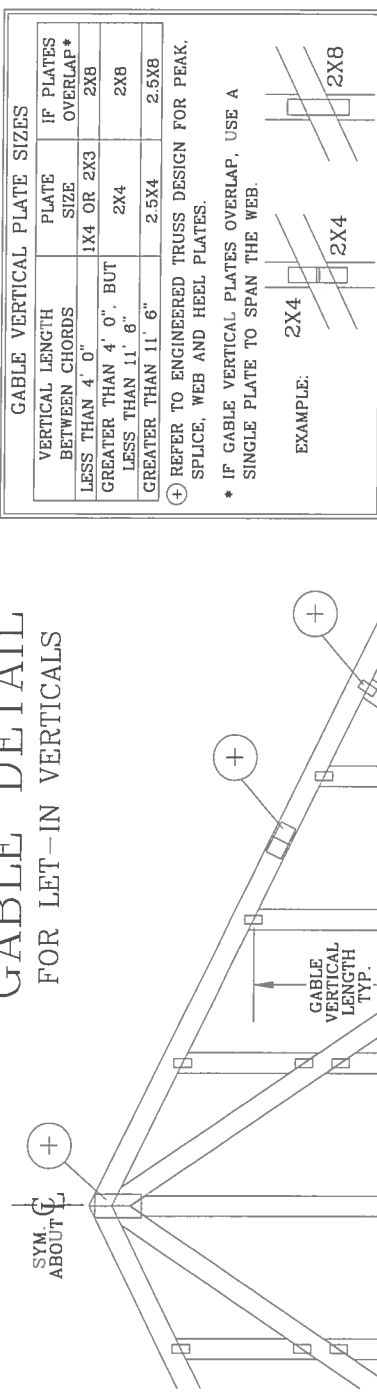
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REF	ASCE7-02-CAB11015
DATE	04/15/05
DRWG	A11015EE0405
	-ENG

MAX. TOT. LD.	60 PSF
MAX. SPACING	24' 0"

# GABLE DETAIL FOR LET-IN VERTICALS



**GABLE VERTICAL PLATE SIZES**

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

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

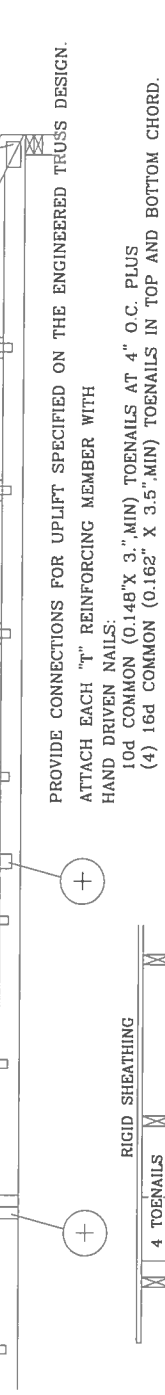
\* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN. ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:  
 10d COMMON (0.148" X 3.5" MIN) TOENAILS AT 4" O.C. PLUS  
 (4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.  
 GUN DRIVEN NAILS:  
 8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS  
 (4) TOENAILS IN TOP AND BOTTOM CHORD.

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

ASCE 7-93 GABLE DETAIL DRAWINGS  
 A10105EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103  
 A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103  
 ASCE 7-98 GABLE DETAIL DRAWINGS  
 A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103  
 A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103  
 ASCE 7-02 GABLE DETAIL DRAWINGS  
 A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,  
 A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

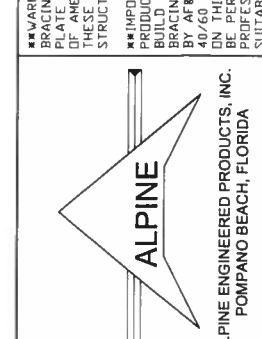


SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

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

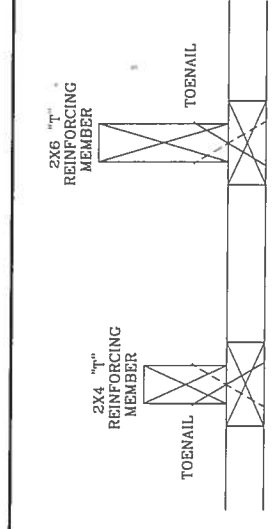
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THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
-ENG	DLJ/KAR
MAX TOT. LD. 60 PSF	
DUR. FAC. ANY	
MAX SPACING 24.0"	



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

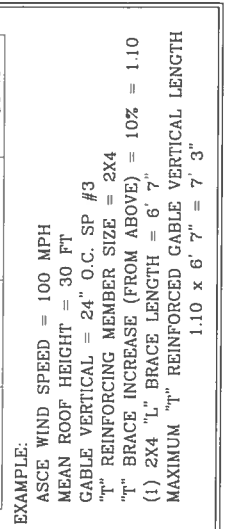
MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

**WEB LENGTH INCREASE W/ "T" BRACE**

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

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

ALPINE ENGINEERED PRODUCTS, INC.  
 POMPANO BEACH, FLORIDA



ASCE 7-02: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:		
SPRUCE-PINE-FIR	HEM-FIR	
#1 / #2	STANDARD	#2
#3	STUD	#3
STANDARD		
SOUTHERN PINE		
#3	STUD	
STANDARD		
GROUP B:		
HEM-FIR		
#1 & BTR		
#1		
DOUGLAS FIR-LARCH		
#1		
#2		

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

ATTACH EACH "L" BRACE WITH 10d NAILS.

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

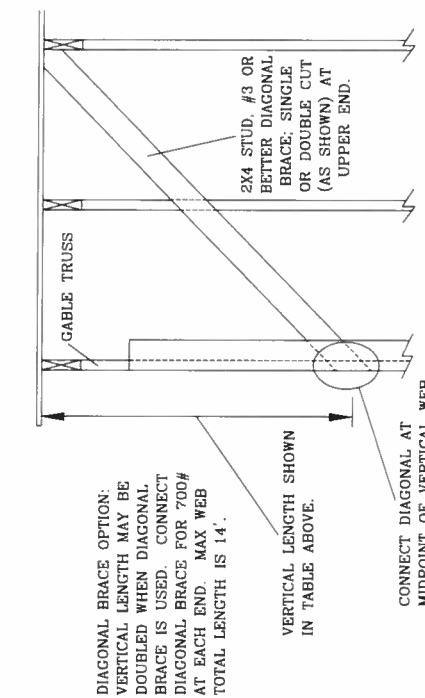
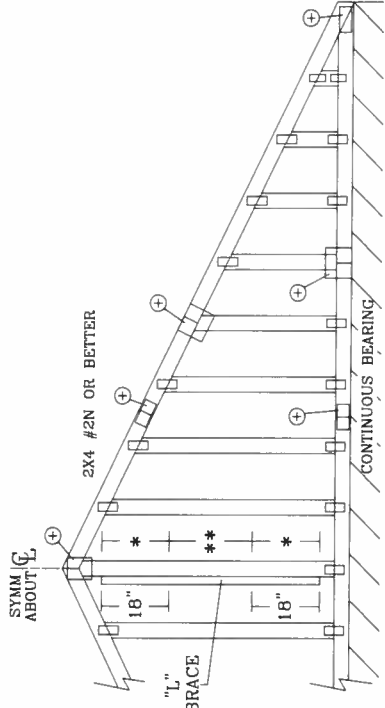
\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

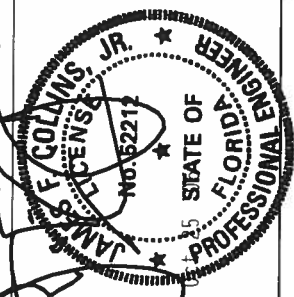
GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0" BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2-5X4

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.



**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSL I-03 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI TRUSS COMPANY OF AMERICA, 6300 ENTERPRISE LN, 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 COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE USER SHALL BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS, NATIONAL DESIGN SPEC (AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) 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 (X) SHALL BE CONSIDERED ACCEPTANCE OF THIS DESIGN. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

REF	ASCE7-02-CAB11030
DATE	04/14/05
DRWG	A11030EE0405
	-ENG

MAX. TOT. LD.	60 PSF
MAX. SPACING	24' 0"