

DATE 06/26/2006

Columbia County Building Permit

PERMIT
000024674

This Permit Expires One Year From the Date of Issue

APPLICANT WILLIAM HARPER PHONE 386-688-4192
ADDRESS 119 SW HOBBY PLACE LAKE CITY FL 32024
OWNER SCOTT JENNIFER MCKENNEY PHONE 755-8888
ADDRESS 11173 SWCR 240 LAKE CITY FL 32024
CONTRACTOR WILLIAM HARPER PHONE 386-688-4192
LOCATION OF PROPERTY 90 W, L 247, L 240, ON LEFT APPROX. .8 MILES

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 77500.00
HEATED FLOOR AREA 1550.00 TOTAL AREA 1604.00 HEIGHT 19.40 STORIES 1
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB
LAND USE & ZONING AG-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 11-5S-15-00435-000 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 9.73

RR28281142
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 06-0556-N BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident
COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 1117

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by
Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by
M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 390.00 CERTIFICATION FEE \$ 8.02 SURCHARGE FEE \$ 8.02
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 481.04
INSPECTORS OFFICE J. H. CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

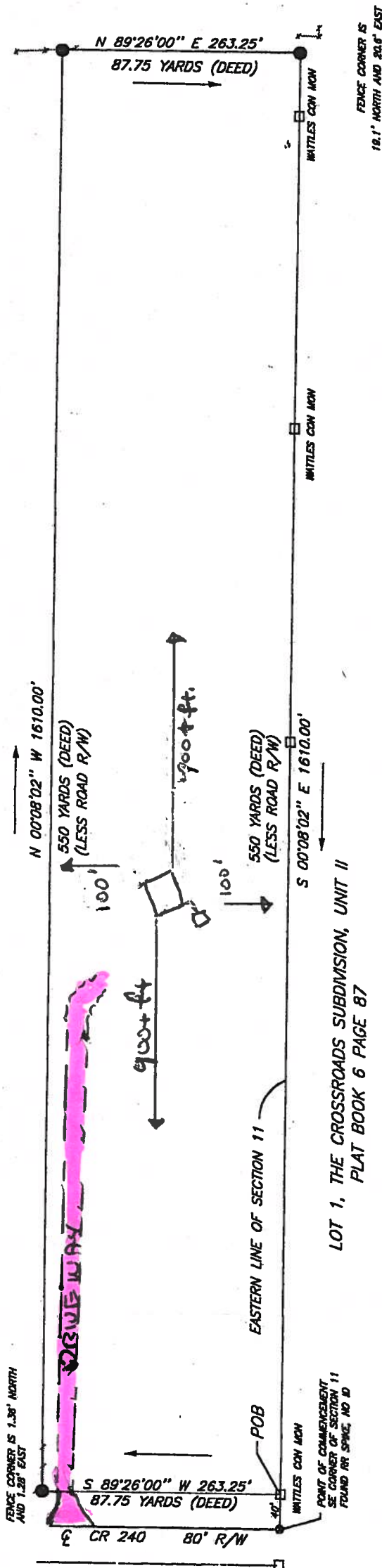
PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

A BOUNDARY SURVEY SHOWING IMPROVEMENTS
A 9.73 ACRE SURVEY IN SECTION 11 T 5 S R 15 E
COLUMBIA COUNTY, FLORIDA

SITE PLAN

PROJECT: SCOTT AND JENNIFER MCKENNEY HOME
CONTRACTOR: BILL HARPER / W.L. HARPER CONSTRUCTION
UNPLATTED LANDS



DESCRIPTION

COLUMBIA COUNTY
STATE OF FLORIDA

A PART OF SECTION 11, TOWNSHIP 5 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 11, THENCE RUN N 00° 08' 02" W, ALONG AND WITH THE EASTERN LINE OF SECTION 11, 40.00 FEET TO A POINT ON THE NORTHERN RIGHT-OF-WAY LINE OF COUNTY ROAD 240, ALSO BEING THE POINT OF BEGINNING.
THENCE, FROM THE TRUE POINT OF BEGINNING, S 89° 26' 00" W, ALONG AND WITH THE NORTHERN RIGHT-OF-WAY LINE OF COUNTY ROAD 240, 263.25 FEET TO A POINT;
THENCE, N 00° 08' 02" W 1610.00 FEET TO A POINT;
THENCE, N 89° 26' 00" E 263.25 FEET TO A POINT ON THE EASTERN LINE OF SECTION 11;
THENCE, ALONG AND WITH SAID EASTERN LINE OF SECTION 11, S 00° 08' 02" E 1610.00 FEET TO THE POINT OF BEGINNING.
CONTAINING 9.73 ACRES, MORE OR LESS.

CERTIFICATION

THIS SURVEY IS CERTIFIED TO:

HANNAH LEAH CRESPO
FIDELITY NATIONAL TITLE INSURANCE COMPANY
AMERICAN TITLE SERVICES OF LAKE CITY, INC.

SURVEYOR'S NOTES

DESCRIPTION PROVIDED BY THE OWNER, RIGHT-OF-WAY FOR COUNTY ROAD 240 HAS BEEN DEDUCTED FROM THE AREA DESCRIBED IN WARRANTY DEED RECORDED IN BOOK 602 PAGE 235 OF THE OFFICIAL RECORDS OF COLUMBIA COUNTY, FLORIDA.
THERE MAY BE ELECTRICAL POWER LINES, TELEPHONE LINES, POLES AND OTHER APPURTANANCES BOTH OVERHEAD AND UNDERGROUND THAT WERE NOT LOCATED AND SHOWN HEREIN AND WERE NOT PART OF THE SCOPE OF THIS SURVEY.

THIS SURVEY IS BASED IN WHOLE OR IN PART ON EXISTING SURVEY MARKERS FOUND IN PLACE AS SHOWN HEREIN AND HELD.
THIS SURVEY IS NOT VALID UNLESS IT IS SIGNED (IN RED OR GREEN INK) WITH AN ORIGINAL SIGNATURE AND SEALED WITH AN EMBOSSED SEAL.

MOST OF THIS TRACT IS IN FLOOD ZONE X AND IS OUTSIDE THE LIMITS OF THE 500 YEAR FLOOD AS DETERMINED BY FEMA FLOOD MAP COMMUNITY PANEL NO. 120070 D225B, DATED JANUARY 6, 1988. A SMALL CIRCULAR AREA IS IN FLOOD ZONE A.
THIS SURVEY IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE.

BEARINGS ARE BASED ON THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD 240 AS PER FDOT R/W MAP FOR SECTION 28540-2801, SHEET 3 OF 43.
DATE OF FIELD SURVEY: MARCH 5, 2005. DATE OF PLAT: APRIL 5, 2005.

SYMBOL LEGEND

- 4" X 4" CONC MONUMENT FOUND (F) FIELD MEASUREMENT
- 4" X 4" CONC MONUMENT SET (P) MEASUREMENT FROM PLAT OF RECORD
- CAPPED REBAR FOUND
- CAPPED REBAR SET THIS SURVEY
- FENCE

NW QUARTER	NE QUARTER
SW QUARTER	

SECTION 11

GERRY G. SMITH, PSM 4804
618 SW CHARLES TERRACE
PO BOX 3625 LAKE CITY, FLORIDA 32056

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0606.32 Date Received 6/26/06 By G Permit # 24674
Application Approved by - Zoning Official BLK Date 22.06.06 Plans Examiner OKJTH Date 6-23-06
Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
Comments _____

Applicants Name WILLIAM L. HARPER Phone 886-688-4192
Address 119 SW HOBBS PL. LAKE CITY FL 32024
Owners Name SCOTT AND JENNIFER MCKENNEY Phone 758-8888
911 Address 11173 SW COUNTY ROAD 240 LAKE CITY, FL 32024
Contractors Name WILLIAM L. HARPER Phone 386-688-4192
Address 119 SW HOBBS PL. LAKE CITY, FL. 32024
Fee Simple Owner Name & Address N/A
Bonding Co. Name & Address N/A
Architect/Engineer Name & Address MARK DISOSWAY, PE LAKE CITY, FL.
Mortgage Lenders Name & Address FIRST FEDERAL SAVINGS BANK OF FL. LAKE CITY
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 11-55-16-00435-000 Estimated Cost of Construction \$136,970.00
Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____
Driving Directions GO W 90 TO STATE ROAD 247 - GO LEFT - GO STATE ROAD 247 TO COUNTY ROAD 240 - GO LEFT - SITE ON LEFT APPROX. 0.8 miles -
Type of Construction NEW DWELLING SFD Number of Existing Dwellings on Property 0
Total Acreage 9.73 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 900' Side 100' Side 100' Rear 700'
Total Building Height 19'4" Number of Stories 1 Heated Floor Area 1604 sq ft Roof Pitch 8/12
PORCHES 550 GARAGE 548 1550 TOTAL 2153

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.

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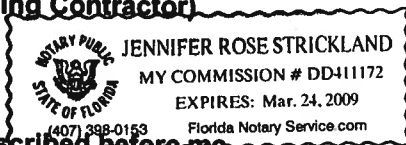
WILLIAM L. HARPER
Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 12th day of June 20 06.

Personally known ✓ or Produced Identification _____



William L. Harper
Contractor Signature
Contractors License Number BR282811402
Competency Card Number 5616
NOTARY STAMP/SEAL

Jennifer Strickland
Notary Signature

*Jennifer Strickland McKenney
Post Office Box 241
Lake City, Florida 32056*

Columbia County Building & Zoning Department
135 NE Hernando Ave Suite B-21
Lake City, Florida 32055

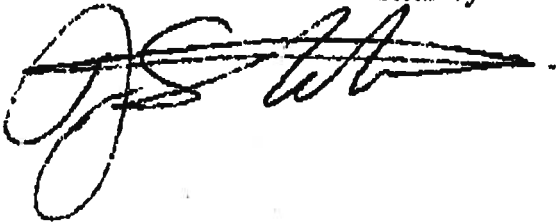
Dear Ms. Laurie Hodson,

As requested I am writing a letter to inform the building and zoning department that as of May 1st, 2007 our contractor, W.L. Harper Construction is no longer involved in the construction of our home, permit #000024674. My husband and I will finish the last 5% of the home by completing the flooring, final electric, and countertops. The estimated completion cost will be \$3840.00 and will require our electric inspection, septic tank inspection, and c of o.

If you should require any additional information you may contact me at 386-623-7534 or 386-755-8888. The new notice of commencement has been recorded and posted on the job site as of May 1st, 2007.

Thank you in advance,

Jennifer Strickland McKenney

A handwritten signature in black ink, appearing to read 'JS McKenney', with a long horizontal stroke extending to the right.



STATE OF FLORIDA
DEPARTMENT OF HEALTH

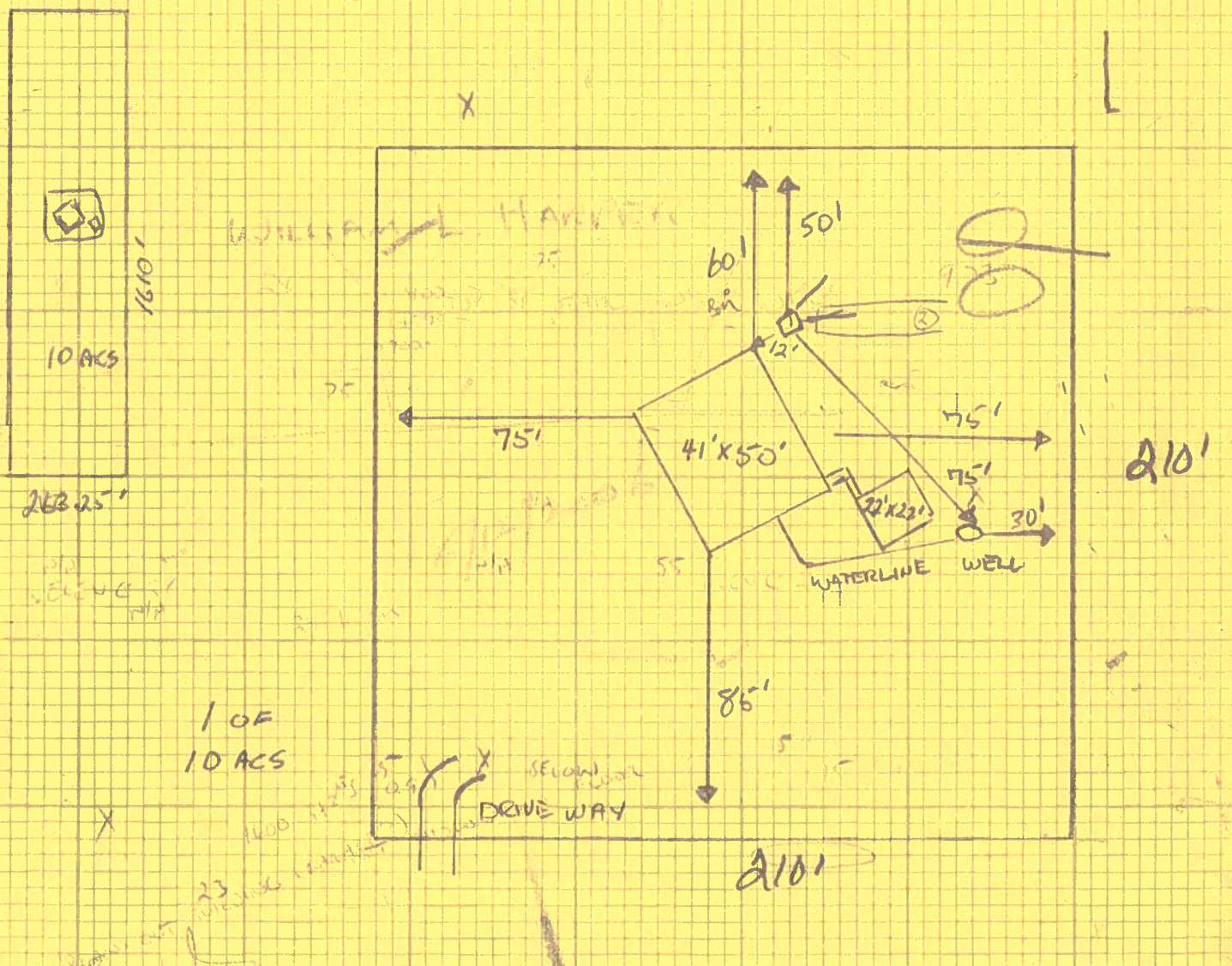
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number

06-0556N

PART II - SITE PLAN

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



Notes:

Site Plan submitted by:

William J. Huper

Signature

CONTRACTOR

Title

Plan Approved

Not Approved

Date 6/19/06

By

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

B

C

0606-32

SUWANNEE COUNTY
COLUMBIA COUNTY

LEE

DAIRY

ROAD

R 15 E

R 16 E

247

11

12

240

ZONE A

14

13

ROAD

ZONE X

23

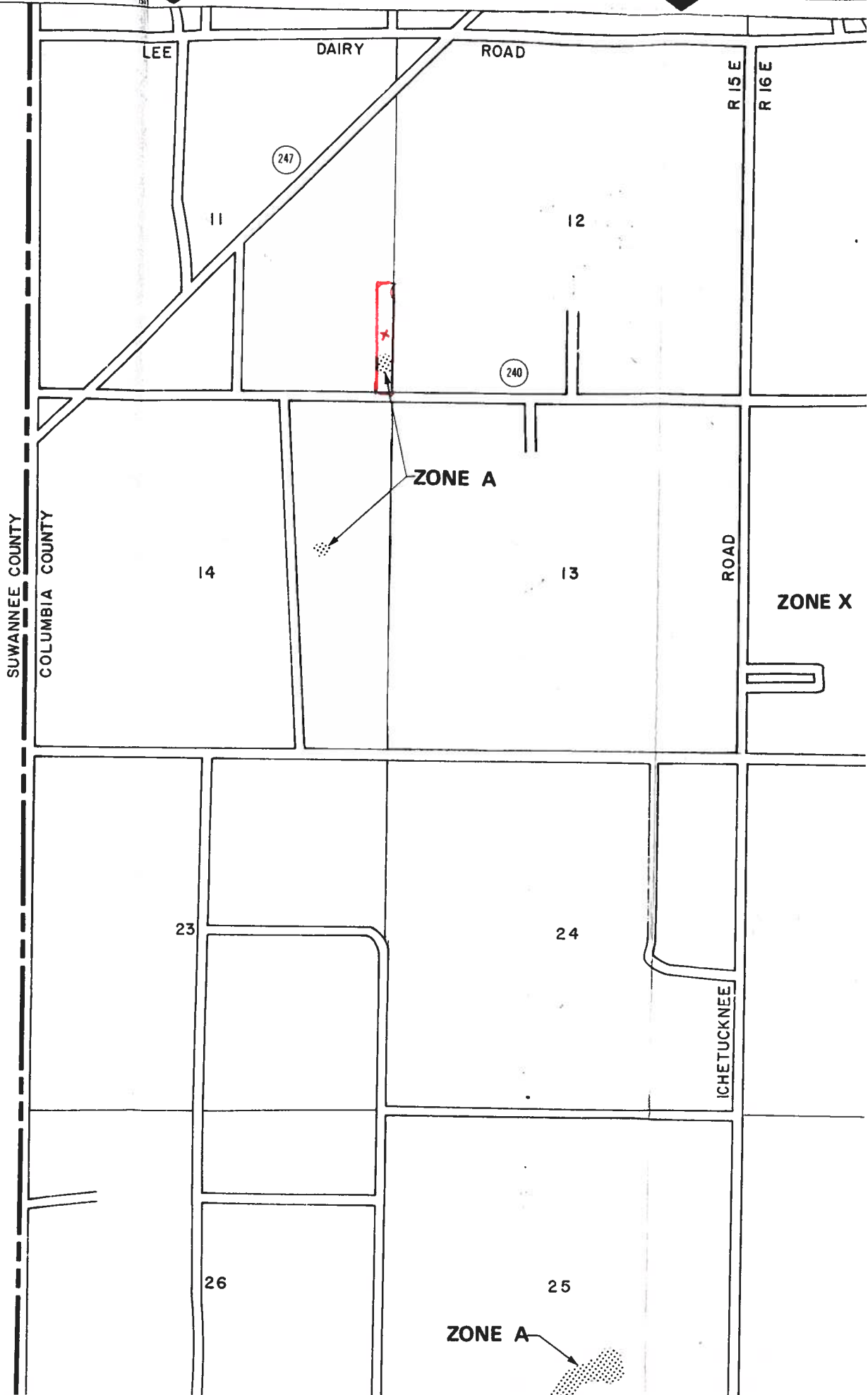
24

ICHETUCKNEE

26

25

ZONE A



PREPARED BY AND RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1128
LAKE CITY, FL 32056-1328

Property Appraiser's
Identification Number 2-00436-000

TM File No: 06-207

WARRANTY DEED

This Warranty Deed, made this 11th day of May, 2006, BETWEEN VENTURE POINTS, LLC, a Florida Limited Liability Company, whose document number issued by the State of Florida is L05000021112 and whose post office address is P. O. Box 304, Lake City, Florida 32056, of the County of Columbia, State of Florida, grantor*, and CHRISTOPHER S. MCKENNEY AND JENNIFER S. MCKENNEY, Husband and Wife whose post office address is P.O. Box 241, Lake City, Florida 32056, of the County of Columbia, State of Florida, grantees*.

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

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

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

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

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

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

Test: 2006011712 Date: 05/12/2006 Time: 16:47

Doc Stamp-Deed : 809.30

12 Mr. P. McMillit Cases, Columbia County FL 1000 P: 1717

JUN-12-2006 15:33

TERRY McDAVID

1 386 752 8985

P.02/03

In Witness Whereof, grantor has hereunto set grantor's hand
and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

VENTURE POINT, LLC

BY:

(Signature) (SEAL)
AARON NICKELSON, Managing
Member

(Signature)
TERRY McDAVID
(Typed Name of First Witness)

(Signature)
LARRY H. WRIGHT
(Typed Name of Second Witness)

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this
12th day of May, 2006, by Aaron Nickelson, Managing Member of
Venture Pointe, LLC, a Florida Limited Liability Company, on
behalf of said company, who is/are personally known to me or who
has/have produced Id. Quasli as identification and who did
not take an oath.

My Commission Expires:

(Signature)
Notary Public

Printed, typed, or stamped name:



Innt:2006011712 Date:05/12/2006 Time:16:47
Doc Stamp-Seed : 900.30

DC, P. Smith Casan, Columbia County 3:1003 P:1710

EXHIBIT "A"

A PART OF SECTION 11, TOWNSHIP 1 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 11, THENCE RUN N 00 DEGREES 08' 02" W, ALONG AND WITH THE EASTERN LINE OF SECTION 11, 40.00 FEET TO A POINT ON THE NORTHERN RIGHT-OF-WAY LINE OF COUNTY ROAD 240, ALSO BEING THE POINT OF BEGINNING.

THENCE, FROM THE TRUE POINT OF BEGINNING, S 89 DEGREES 26' 00" W, ALONG AND WITH THE NORTHERN RIGHT-OF-WAY LINE OF COUNTY ROAD 240, 263.25 FEET TO A POINT;

THENCE, N 00 DEGREES 08' 02" W 1610.00 FEET TO A POINT;

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Inet:2006011712 Date:05/18/2006 Time:14:47

Doc Stamp-Seed : 809.30

BC, P. Dawitt Cases, Columbia County S:1009 P:1710

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: 5/11/2006 DATE ISSUED: 5/22/2006

ENHANCED 9-1-1 ADDRESS:

11173 SW COUNTY ROAD 240
LAKE CITY FL 32024
PROPERTY APPRAISER PARCEL NUMBER:

11-5S-15-00435-000

Remarks:

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.

262

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

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. R-00435-000

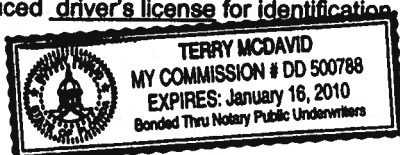
NOTICE OF COMMENCEMENT

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: See Exhibit "A" attached hereto and made a part hereof.
2. General description of improvement: Construction of Dwelling
3. Owner information:
 - a. Name and address: Christopher S. McKenney and Jennifer S. McKenney
P.O. Box 241, Lake City, FL 32056
 - 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): W. L. Harper Construction, Inc.
119 SW Hobby Place, Lake City, FL 32024
5. Surety:
 - a. Name and address: _____
 - b. Amount of bond: N/A
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).

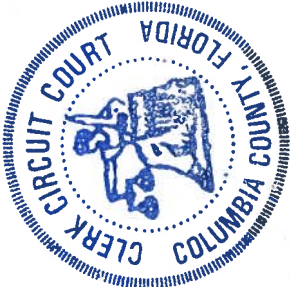
The foregoing instrument was acknowledged before me this 10th day of MAY 2006 by Christopher S. McKenney & Jennifer S. McKenney, who is personally known to me or who has produced driver's license for identification.



Borrower Name
Christopher S. McKenney

Co-Borrower Name
Jennifer S. McKenney

Notary Public
My Commission Expires:



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 Leagle
Deputy Clerk

Date 05-12-06

Inst: 2006011714 Date: 05/12/2006 Time: 14:47
P. De Witt Cason, Columbia County B: 1083 P: 1737

EXHIBIT "A"

A PART OF SECTION 11, TOWNSHIP 5 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 11, THENCE RUN N 00 DEGREES 08' 02"W, ALONG AND WITH THE EASTERN LINE OF SECTION 11, 40.00 FEET TO A POINT ON THE NORTHERN RIGHT-OF-WAY LINE OF COUNTY ROAD 240, ALSO BEING THE POINT OF BEGINNING.

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Inst:2006011714 Date:05/12/2006 Time:14:47

____DC, P. Dewitt Cason, Columbia County B:1083 P:1738

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	604276WLHarperConstructionMcKinneyResidence		Builder:	William Harper
Address:			Permitting Office:	Columbia Co.
City, State:	, FL		Permit Number:	24674
Owner:	McKinney Residence		Jurisdiction Number:	221000
Climate Zone:	North			

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 34.0 kBtu/hr SEER: 11.00
3. Number of units, if multi-family	1	___	b. N/A	___
4. Number of Bedrooms	3	___	c. N/A	___
5. Is this a worst case?	Yes	___	13. Heating systems	
6. Conditioned floor area (ft²)	1604 ft²	___	a. Electric Heat Pump	Cap: 34.0 kBtu/hr HSPF: 7.30
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___	b. N/A	___
a. U-factor:	Description Area	___	c. N/A	___
(or Single or Double DEFAULT)	7a. (Dble Default) 262.3 ft²	___	14. Hot water systems	
b. SHGC:		___	a. Electric Resistance	Cap: 40.0 gallons EF: 0.93
(or Clear or Tint DEFAULT)	7b. (Clear) 262.3 ft²	___	b. N/A	___
8. Floor types		___	c. Conservation credits	___
a. Slab-On-Grade Edge Insulation	R=0.0, 172.0(p) ft	___	(HR-Heat recovery, Solar	___
b. N/A		___	DHP-Dedicated heat pump)	___
c. N/A		___	15. HVAC credits	___
9. Wall types		___	(CF-Ceiling fan, CV-Cross ventilation,	___
a. Frame, Wood, Exterior	R=13.0, 1301.7 ft²	___	HF-Whole house fan,	___
b. N/A		___	PT-Programmable Thermostat,	___
c. N/A		___	MZ-C-Multizone cooling,	___
d. N/A		___	MZ-H-Multizone heating)	___
e. N/A		___		___
10. Ceiling types		___		___
a. Under Attic	R=30.0, 1604.0 ft²	___		___
b. N/A		___		___
c. N/A		___		___
11. Ducts		___		___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft	___		___
b. N/A		___		___

Glass/Floor Area: 0.16

Total as-built points: 24240

Total base points: 24813

PASS

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

PREPARED BY: Y. B. [Signature]DATE: 5-22-06

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: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1604.0	20.04	5785.9	Double, Clear	N	1.5	5.5	7.4	19.20	0.93	131.9
				Double, Clear	N	1.5	7.0	36.4	19.20	0.96	667.4
				Double, Clear	E	24.0	7.0	18.2	42.06	0.36	273.2
				Double, Clear	N	6.0	7.0	41.2	19.20	0.73	580.1
				Double, Clear	N	6.0	6.0	30.2	19.20	0.71	412.2
				Double, Clear	E	1.5	6.0	13.5	42.06	0.91	518.3
				Double, Clear	S	6.0	7.0	54.5	35.87	0.54	1057.5
				Double, Clear	S	11.0	7.0	18.2	35.87	0.47	305.8
				Double, Clear	W	1.5	6.0	11.7	38.52	0.91	411.7
				Double, Clear	W	1.5	4.5	16.0	38.52	0.85	523.6
				Double, Clear	E	1.5	5.5	15.0	42.06	0.90	565.5
				As-Built Total:				262.3	5447.2		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1301.7	1.50		1952.5	
Exterior	1301.7	1.70	2212.9								
Base Total:				1301.7		2212.9					
				As-Built Total:		1301.7		1952.5			
DOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	4.10		164.0	
Exterior	40.0	4.10	164.0								
Base Total:				40.0		164.0					
				As-Built Total:		40.0		164.0			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1604.0	1.73	2774.9	Under Attic	30.0		1604.0	1.73 X 1.00		2774.9	
Base Total:				1604.0		2774.9					
				As-Built Total:		1604.0		2774.9			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	172.0(p)	-37.0	-6364.0	Slab-On-Grade Edge Insulation	0.0		172.0(p)	-41.20		-7086.4	
Raised	0.0	0.00	0.0								
Base Total:				-6364.0		172.0		-7086.4			
				As-Built Total:		172.0		-7086.4			
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
1604.0 10.21 16376.8				1604.0 10.21 16376.8							

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

ADDRESS: , , FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 20950.6				Summer As-Built Points: 19629.1						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
20950.6	0.4266		8937.5	(sys 1: Central Unit 34000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 19629 1.00 (1.09 x 1.147 x 0.91) 0.310 1.000 6929.1 19629.1 1.00 1.138 0.310 1.000 6929.1						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	1604.0	12.74	3678.3	Double, Clear	N	1.5	5.5	7.4	24.58	1.00	182.4
				Double, Clear	N	1.5	7.0	36.4	24.58	1.00	896.0
				Double, Clear	E	24.0	7.0	18.2	18.79	1.51	515.4
				Double, Clear	N	6.0	7.0	41.2	24.58	1.02	1029.3
				Double, Clear	N	6.0	6.0	30.2	24.58	1.02	755.8
				Double, Clear	E	1.5	6.0	13.5	18.79	1.04	262.7
				Double, Clear	S	6.0	7.0	54.5	13.30	2.50	1810.8
				Double, Clear	S	11.0	7.0	18.2	13.30	3.33	805.7
				Double, Clear	W	1.5	6.0	11.7	20.73	1.02	248.2
				Double, Clear	W	1.5	4.5	16.0	20.73	1.04	345.8
				Double, Clear	E	1.5	5.5	15.0	18.79	1.04	293.5
				As-Built Total:				262.3	7145.7		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1301.7	3.40		4425.8	
Exterior	1301.7	3.70	4816.3								
Base Total:				1301.7		4816.3					
				As-Built Total:		1301.7		4425.8			
DOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	8.40		336.0	
Exterior	40.0	8.40	336.0								
Base Total:				40.0		336.0					
				As-Built Total:		40.0		336.0			
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1604.0	2.05	3288.2	Under Attic	30.0		1604.0	2.05 X 1.00		3288.2	
Base Total:				1604.0		3288.2					
				As-Built Total:		1604.0		3288.2			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	172.0(p)	8.9	1530.8	Slab-On-Grade Edge Insulation	0.0		172.0(p)	18.80		3233.6	
Raised	0.0	0.00	0.0								
Base Total:				1530.8		172.0		3233.6			
				As-Built Total:		172.0		3233.6			
INFILTRATION Area X BWPM = Points						Area X WPM = Points					
						1604.0		-0.59		-946.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

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

BASE				AS-BUILT									
Winter Base Points: 12703.2				Winter As-Built Points: 17483.0									
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Heating Points
12703.2		0.6274	7970.0	(sys 1: Electric Heat Pump 34000 btuh ,EFF(7.3) Ducts:Unc(S),Unc(R),Int(AH),R6.0 17483.0 1.000 (1.069 x 1.169 x 0.93) 0.467 1.000 9491.2 17483.0 1.00 1.162 0.467 1.000 9491.2									

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Volume		Bedrooms		Ratio	Multiplier
Bedrooms			Total						=
3		2635.00	7905.0	40.0	0.93	3		1.00	2606.67
									1.00
									7820.0
				As-Built Total:					7820.0

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Cooling	+	Heating	+
Points		Points		Points	Total	Points		Points	
Points		Points		Points	Points	Points		Points	Total
8938		7970		7905	24813	6929		9491	7820
									24240

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.6

The higher the score, the more efficient the home.

McKinney Residence, , , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 34.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	1604 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 34.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 262.3 ft²		HSPF: 7.30
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 262.3 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 172.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1301.7 ft²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1604.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft		
b. N/A			

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM 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 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.*

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

Residential System Sizing Calculation

Summary

McKinney Residence

Project Title:
604276WLHarperConstructionMcKinneyResidence

Class 3 Rating
Registration No. 0
Climate: North

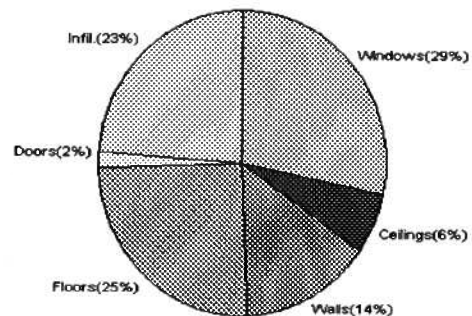
5/19/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	29566 Btuh	Total cooling load calculation	26443 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.0 34000	Sensible (SHR = 0.75)	116.1 25500
Heat Pump + Auxiliary(0.0kW)	115.0 34000	Latent	189.6 8500
		Total (Electric Heat Pump)	128.6 34000

WINTER CALCULATIONS

Winter Heating Load (for 1604 sqft)

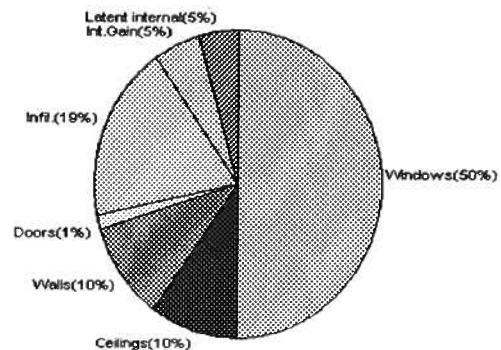
Load component		Load	
Window total	262 sqft	8443	Btuh
Wall total	1302 sqft	4275	Btuh
Door total	40 sqft	518	Btuh
Ceiling total	1604 sqft	1890	Btuh
Floor total	172 sqft	7510	Btuh
Infiltration	171 cfm	6930	Btuh
Duct loss		0	Btuh
Subtotal		29566	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		29566	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1604 sqft)

Load component		Load	
Window total	262 sqft	13145	Btuh
Wall total	1302 sqft	2715	Btuh
Door total	40 sqft	392	Btuh
Ceiling total	1604 sqft	2656	Btuh
Floor total		0	Btuh
Infiltration	90 cfm	1672	Btuh
Internal gain		1380	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		21960	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		3283	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		4483	Btuh
TOTAL HEAT GAIN		26443	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 5-22-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

McKinney Residence

Project Title:

604276WLHarperConstructionMcKinneyResidence

Class 3 Rating

Registration No. 0

Climate: North

, FL

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

5/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	7.4		32.2	238 Btuh
2	2, Clear, Metal, 0.87	NW	36.4		32.2	1172 Btuh
3	2, Clear, Metal, 0.87	NE	18.2		32.2	586 Btuh
4	2, Clear, Metal, 0.87	NW	41.2		32.2	1326 Btuh
5	2, Clear, Metal, 0.87	NW	30.2		32.2	972 Btuh
6	2, Clear, Metal, 0.87	NE	13.5		32.2	435 Btuh
7	2, Clear, Metal, 0.87	SE	54.5		32.2	1754 Btuh
8	2, Clear, Metal, 0.87	SE	18.2		32.2	586 Btuh
9	2, Clear, Metal, 0.87	SW	11.7		32.2	377 Btuh
10	2, Clear, Metal, 0.87	SW	16.0		32.2	515 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
Window Total			262(sqft)			8443 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1302		3.3	4275 Btuh
Wall Total			1302			4275 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		40		12.9	518 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1604		1.2	1890 Btuh
Ceiling Total			1604			1890Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	172.0 ft(p)		43.7	7510 Btuh
Floor Total			172			7510 Btuh
Zone Envelope Subtotal:						22636 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	12832	171.1		6930 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					29566 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

Climate: North

5/19/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	29566 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29566 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

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

(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

McKinney Residence

Project Title:

604276WLHarperConstructionMcKinneyResidence

Class 3 Rating

Registration No. 0

Climate: North

, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

5/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load				
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded					
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	7.4	0.0	7.4	29	60	444	Btuh			
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	36.4	0.0	36.4	29	60	2185	Btuh			
3	2, Clear, 0.87, None,N,N	NE	24ft.	7ft.	18.2	0.0	18.2	29	60	1093	Btuh			
4	2, Clear, 0.87, None,N,N	NW	6ft.	7ft.	41.2	0.0	41.2	29	60	2474	Btuh			
5	2, Clear, 0.87, None,N,N	NW	6ft.	6ft.	30.2	0.0	30.2	29	60	1813	Btuh			
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	13.5	0.0	13.5	29	60	810	Btuh			
7	2, Clear, 0.87, None,N,N	SE	6ft.	7ft.	54.5	54.5	0.0	29	63	1578	Btuh			
8	2, Clear, 0.87, None,N,N	SE	11ft.	7ft.	18.2	18.2	0.0	29	63	527	Btuh			
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	11.7	4.2	7.5	29	63	591	Btuh			
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729	Btuh			
11	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh			
Window Total						262 (sqft)					13145	Btuh		
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load				
1	Frame - Wood - Ext	13.0/0.09			1301.7			2.1		2715 Btuh				
Wall Total						1302 (sqft)					2715	Btuh		
Doors	Type				Area (sqft)			HTM		Load				
1	Insulated - Exterior				40.0			9.8		392 Btuh				
Door Total						40 (sqft)					392	Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load				
1	Vented Attic/DarkShingle	30.0			1604.0			1.7		2656 Btuh				
Ceiling Total						1604 (sqft)					2656	Btuh		
Floors	Type	R-Value			Size			HTM		Load				
1	Slab On Grade	0.0			172 (ft(p))			0.0		0 Btuh				
Floor Total						172.0 (sqft)					0	Btuh		
	Zone Envelope Subtotal:										18909	Btuh		
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load				
	SensibleNatural	0.42			12832			89.8		1672 Btuh				
Internal gain	Occupants			Btuh/occupant			Appliance		Load					
	6			X 230 +			0		1380 Btuh					
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)										DGM = 0.00		0.0	Btuh
	Sensible Zone Load										21960		Btuh	

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

, FL

Climate: North

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

5/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	7.4		32.2	238 Btuh
2	2, Clear, Metal, 0.87	NW	36.4		32.2	1172 Btuh
3	2, Clear, Metal, 0.87	NE	18.2		32.2	586 Btuh
4	2, Clear, Metal, 0.87	NW	41.2		32.2	1326 Btuh
5	2, Clear, Metal, 0.87	NW	30.2		32.2	972 Btuh
6	2, Clear, Metal, 0.87	NE	13.5		32.2	435 Btuh
7	2, Clear, Metal, 0.87	SE	54.5		32.2	1754 Btuh
8	2, Clear, Metal, 0.87	SE	18.2		32.2	586 Btuh
9	2, Clear, Metal, 0.87	SW	11.7		32.2	377 Btuh
10	2, Clear, Metal, 0.87	SW	16.0		32.2	515 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
Window Total			262(sqft)			8443 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1302		3.3	4275 Btuh
Wall Total			1302			4275 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		40		12.9	518 Btuh
Door Total			40			518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1604		1.2	1890 Btuh
Ceiling Total			1604			1890 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	172.0 ft(p)		43.7	7510 Btuh
Floor Total			172			7510 Btuh
Zone Envelope Subtotal:						22636 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.80	12832		171.1	6930 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					29566 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

, FL

Climate: North

5/19/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	29566 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29566 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

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

(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

Manual J Summer Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

, FL

Climate: North

5/19/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21960 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21960 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21960 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3283 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4483 Btuh
	TOTAL GAIN	26443 Btuh

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

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

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

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

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

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

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

McKinney Residence

Project Title:

604276WLHarperConstructionMcKinneyResidence

Class 3 Rating

Registration No. 0

Climate: North

, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

5/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	7.4	0.0	7.4	29	60	444 Btuh	
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	36.4	0.0	36.4	29	60	2185 Btuh	
3	2, Clear, 0.87, None,N,N	NE	24ft.	7ft.	18.2	0.0	18.2	29	60	1093 Btuh	
4	2, Clear, 0.87, None,N,N	NW	6ft.	7ft.	41.2	0.0	41.2	29	60	2474 Btuh	
5	2, Clear, 0.87, None,N,N	NW	6ft.	6ft.	30.2	0.0	30.2	29	60	1813 Btuh	
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	13.5	0.0	13.5	29	60	810 Btuh	
7	2, Clear, 0.87, None,N,N	SE	6ft.	7ft.	54.5	54.5	0.0	29	63	1578 Btuh	
8	2, Clear, 0.87, None,N,N	SE	11ft.	7ft.	18.2	18.2	0.0	29	63	527 Btuh	
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	11.7	4.2	7.5	29	63	591 Btuh	
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729 Btuh	
11	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh	
Window Total						262 (sqft)					13145 Btuh
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1301.7			2.1		2715 Btuh	
Wall Total						1302 (sqft)					2715 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				40.0			9.8		392 Btuh	
Door Total						40 (sqft)					392 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1604.0			1.7		2656 Btuh	
Ceiling Total						1604 (sqft)					2656 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			172 (ft(p))			0.0		0 Btuh	
Floor Total						172.0 (sqft)					0 Btuh
	Zone Envelope Subtotal:									18909 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.42			12832			89.8		1672 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			0		1380 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									21960 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

, FL

Climate: North

5/19/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21960 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21960 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21960 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3283 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4483 Btuh
	TOTAL GAIN	26443 Btuh

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

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

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

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

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

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

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

McKinney Residence

Project Title:
604276WLHarperConstructionMcKinneyResidence

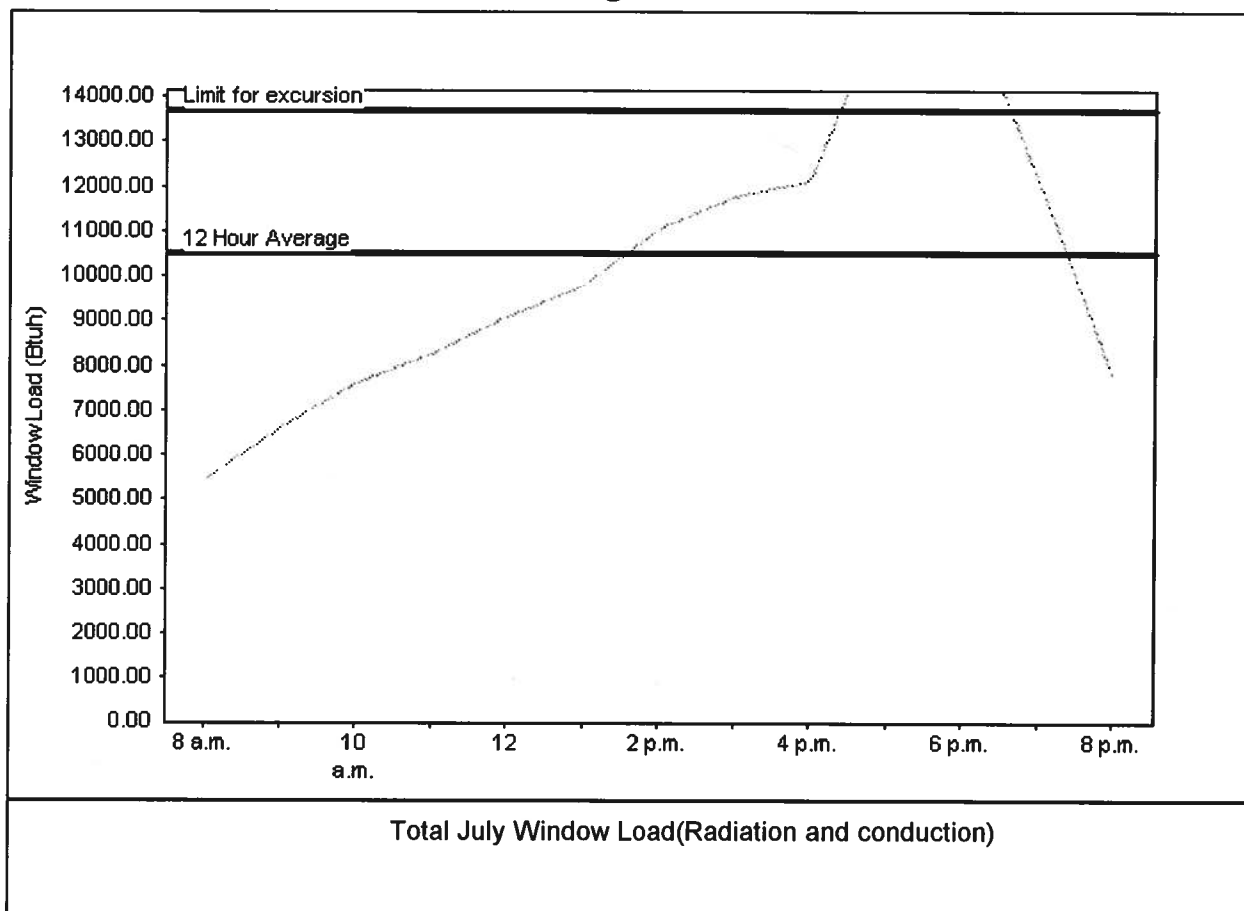
Class 3 Rating
Registration No. 0
Climate: North

5/19/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10516 Btu
Summer setpoint	75 F	Peak window load for July	16377 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	13671 Btu
Latitude	29 North	Window excursion (July)	2706 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *5-22-06*

EnergyGauge® FLR2PB v4.1



Location: 11073 SW County Road 240Project Name: SCOTT AND JENNIFER MCKENNEY

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	RELIABLE	3-0 EXTERIOR / 2-8 EXT. DOOR	FL18
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	BETTER BUILT	ALUMINUM 3' x 5'	FL 663 FL 663
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf	UNION COR. CO.	METAL ROOF PANELS	FL 2287
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

		Approval Number(s)
13. Liquid Applied Roof Sys		
14. Cements-Adhesives - Coatings		
15. Roof Tile Adhesive		
16. Spray Applied Polyurethane Roof		
17. Other		
E. SHUTTERS		
1. Accordion		
2. Bahama		
3. Storm Panels		
4. Colonial		
5. Roll-up		
6. Equipment		
7. Others		
F. SKYLIGHTS		
1. Skylight		
2. Other		
G. STRUCTURAL COMPONENTS		
1. Wood connector/anchor	SEE ENGINEERING SPECS	
2. Truss plates		
3. Engineered lumber		
4. Railing		
5. Coolers-freezers		
6. Concrete Admixtures		
7. Material		
8. Insulation Forms		
9. Plastics		
10. Deck-Roof		
11. Wall		
12. Sheds	JAMES F. HARPER	
13. Other	HARDI SIDING EXTERIOR SIDING	FL 889.6
H. NEW EXTERIOR ENVELOPE PRODUCTS		
1.		
2.		

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

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

William L. Harper
 Contractor or Contractor's Authorized Agent Signature
1173 SW COUNTY ROAD 240 LAKE CITY, FL
 Location

WILLIAM L. HARPER 6/12/2006
 Print Name Date
 Permit # (FOR STAFF USE ONLY)

Residential System Sizing Calculation

Summary

McKinney Residence

604276WLHarperConstructionMcKinneyResidence

, FL

Project Title:

Class 3 Rating
Registration No. 0
Climate: North

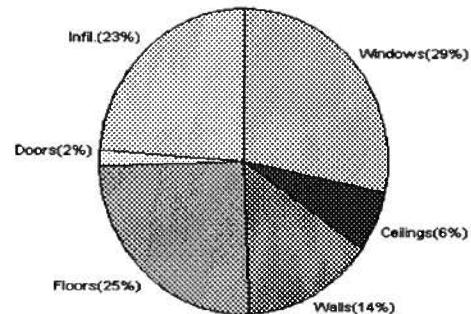
5/19/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	29566 Btuh	Total cooling load calculation	26443 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.0 34000	Sensible (SHR = 0.75)	116.1 25500
Heat Pump + Auxiliary(0.0kW)	115.0 34000	Latent	189.6 8500
		Total (Electric Heat Pump)	128.6 34000

WINTER CALCULATIONS

Winter Heating Load (for 1604 sqft)

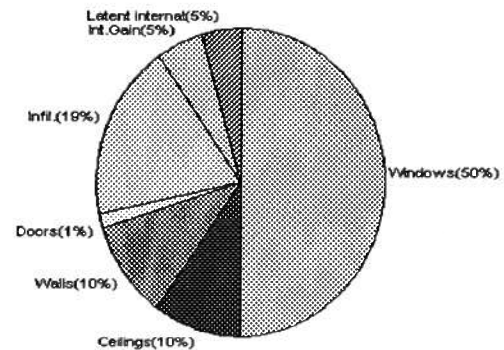
Load component		Load	
Window total	262 sqft	8443	Btuh
Wall total	1302 sqft	4275	Btuh
Door total	40 sqft	518	Btuh
Ceiling total	1604 sqft	1890	Btuh
Floor total	172 sqft	7510	Btuh
Infiltration	171 cfm	6930	Btuh
Duct loss		0	Btuh
Subtotal		29566	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		29566	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1604 sqft)

Load component		Load	
Window total	262 sqft	13145	Btuh
Wall total	1302 sqft	2715	Btuh
Door total	40 sqft	392	Btuh
Ceiling total	1604 sqft	2656	Btuh
Floor total		0	Btuh
Infiltration	90 cfm	1672	Btuh
Internal gain		1380	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		21960	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		3283	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		4483	Btuh
TOTAL HEAT GAIN		26443	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *John Gandy*

DATE: *5-22-06*

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

, FL

Climate: North

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

5/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	7.4		32.2	238 Btuh
2	2, Clear, Metal, 0.87	NW	36.4		32.2	1172 Btuh
3	2, Clear, Metal, 0.87	NE	18.2		32.2	586 Btuh
4	2, Clear, Metal, 0.87	NW	41.2		32.2	1326 Btuh
5	2, Clear, Metal, 0.87	NW	30.2		32.2	972 Btuh
6	2, Clear, Metal, 0.87	NE	13.5		32.2	435 Btuh
7	2, Clear, Metal, 0.87	SE	54.5		32.2	1754 Btuh
8	2, Clear, Metal, 0.87	SE	18.2		32.2	586 Btuh
9	2, Clear, Metal, 0.87	SW	11.7		32.2	377 Btuh
10	2, Clear, Metal, 0.87	SW	16.0		32.2	515 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
Window Total			262(sqft)			8443 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1302		3.3	4275 Btuh
Wall Total			1302			4275 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		40		12.9	518 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic(D/Shin)	30.0	1604		1.2	1890 Btuh
Ceiling Total			1604			1890Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	172.0 ft(p)		43.7	7510 Btuh
Floor Total			172			7510 Btuh
Zone Envelope Subtotal:						22636 Btuh
Infiltration	Type	ACH	Zone Volume	CFM=		
	Natural	0.80	12832	171.1		6930 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					29566 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WlHarperConstructionMcKinneyResidence

Registration No. 0

Climate: North

, FL

5/19/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	29566 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29566 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

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

(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

McKinney Residence

Project Title:

604276WLHarperConstructionMcKinneyResidence

Class 3 Rating

Registration No. 0

Climate: North

, FL

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

5/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	7.4		32.2	238 Btuh
2	2, Clear, Metal, 0.87	NW	36.4		32.2	1172 Btuh
3	2, Clear, Metal, 0.87	NE	18.2		32.2	586 Btuh
4	2, Clear, Metal, 0.87	NW	41.2		32.2	1326 Btuh
5	2, Clear, Metal, 0.87	NW	30.2		32.2	972 Btuh
6	2, Clear, Metal, 0.87	NE	13.5		32.2	435 Btuh
7	2, Clear, Metal, 0.87	SE	54.5		32.2	1754 Btuh
8	2, Clear, Metal, 0.87	SE	18.2		32.2	586 Btuh
9	2, Clear, Metal, 0.87	SW	11.7		32.2	377 Btuh
10	2, Clear, Metal, 0.87	SW	16.0		32.2	515 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
Window Total			262(sqft)			8443 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1302		3.3	4275 Btuh
Wall Total			1302			4275 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		40		12.9	518 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1604		1.2	1890 Btuh
Ceiling Total			1604			1890Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	172.0 ft(p)		43.7	7510 Btuh
Floor Total			172			7510 Btuh
	Zone Envelope Subtotal:					22636 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.80	12832		171.1	6930 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)				(DLM of 0.00)	0 Btuh
Zone #1	Sensible Zone Subtotal					29566 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

, FL

Climate: North

5/19/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	29566 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29566 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

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

(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

, FL

Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

5/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	7.4	0.0	7.4	29	60	444 Btuh	
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	36.4	0.0	36.4	29	60	2185 Btuh	
3	2, Clear, 0.87, None,N,N	NE	24ft.	7ft.	18.2	0.0	18.2	29	60	1093 Btuh	
4	2, Clear, 0.87, None,N,N	NW	6ft.	7ft.	41.2	0.0	41.2	29	60	2474 Btuh	
5	2, Clear, 0.87, None,N,N	NW	6ft.	6ft.	30.2	0.0	30.2	29	60	1813 Btuh	
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	13.5	0.0	13.5	29	60	810 Btuh	
7	2, Clear, 0.87, None,N,N	SE	6ft.	7ft.	54.5	54.5	0.0	29	63	1578 Btuh	
8	2, Clear, 0.87, None,N,N	SE	11ft.	7ft.	18.2	18.2	0.0	29	63	527 Btuh	
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	11.7	4.2	7.5	29	63	591 Btuh	
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729 Btuh	
11	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh	
Window Total						262 (sqft)					13145 Btuh
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1301.7			2.1		2715 Btuh	
Wall Total						1302 (sqft)					2715 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				40.0			9.8		392 Btuh	
Door Total						40 (sqft)					392 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1604.0			1.7		2656 Btuh	
Ceiling Total						1604 (sqft)					2656 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			172 (ft(p))			0.0		0 Btuh	
Floor Total						172.0 (sqft)					0 Btuh
Zone Envelope Subtotal:										18909 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.42			12832			89.8		1672 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			0		1380 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										21960 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

Climate: North

5/19/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21960 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21960 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21960 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3283 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4483 Btuh
	TOTAL GAIN	26443 Btuh

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

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

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

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

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

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

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

McKinney Residence

Project Title:

604276WLHarperConstructionMcKinneyResidence

Class 3 Rating

Registration No. 0

Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

5/19/2006

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	7.4	0.0	7.4	29	60	444	Btuh	
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	36.4	0.0	36.4	29	60	2185	Btuh	
3	2, Clear, 0.87, None,N,N	NE	24ft.	7ft.	18.2	0.0	18.2	29	60	1093	Btuh	
4	2, Clear, 0.87, None,N,N	NW	6ft.	7ft.	41.2	0.0	41.2	29	60	2474	Btuh	
5	2, Clear, 0.87, None,N,N	NW	6ft.	6ft.	30.2	0.0	30.2	29	60	1813	Btuh	
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	13.5	0.0	13.5	29	60	810	Btuh	
7	2, Clear, 0.87, None,N,N	SE	6ft.	7ft.	54.5	54.5	0.0	29	63	1578	Btuh	
8	2, Clear, 0.87, None,N,N	SE	11ft.	7ft.	18.2	18.2	0.0	29	63	527	Btuh	
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	11.7	4.2	7.5	29	63	591	Btuh	
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729	Btuh	
11	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh	
	Window Total				262 (sqft)					13145 Btuh		
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load				
1	Frame - Wood - Ext	13.0/0.09		1301.7		2.1		2715 Btuh				
	Wall Total				1302 (sqft)				2715 Btuh			
Doors	Type			Area (sqft)		HTM		Load				
1	Insulated - Exterior			40.0		9.8		392 Btuh				
	Door Total				40 (sqft)				392 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load				
1	Vented Attic/DarkShingle	30.0		1604.0		1.7		2656 Btuh				
	Ceiling Total				1604 (sqft)				2656 Btuh			
Floors	Type	R-Value		Size		HTM		Load				
1	Slab On Grade	0.0		172 (ft(p))		0.0		0 Btuh				
	Floor Total				172.0 (sqft)				0 Btuh			
	Zone Envelope Subtotal:									18909 Btuh		
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load				
	SensibleNatural	0.42		12832		89.8		1672 Btuh				
Internal gain	Occupants		Btuh/occupant		Appliance		Load					
	6		X 230 +		0		1380 Btuh					
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh		
	Sensible Zone Load									21960 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

McKinney Residence

Project Title:

Class 3 Rating

604276WLHarperConstructionMcKinneyResidence

Registration No. 0

Climate: North

, FL

5/19/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21960 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21960 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21960 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3283 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4483 Btuh
	TOTAL GAIN	26443 Btuh

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

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

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

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

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

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

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

McKinney Residence

604276WLHarperConstructionMcKinneyResidence

Project Title:

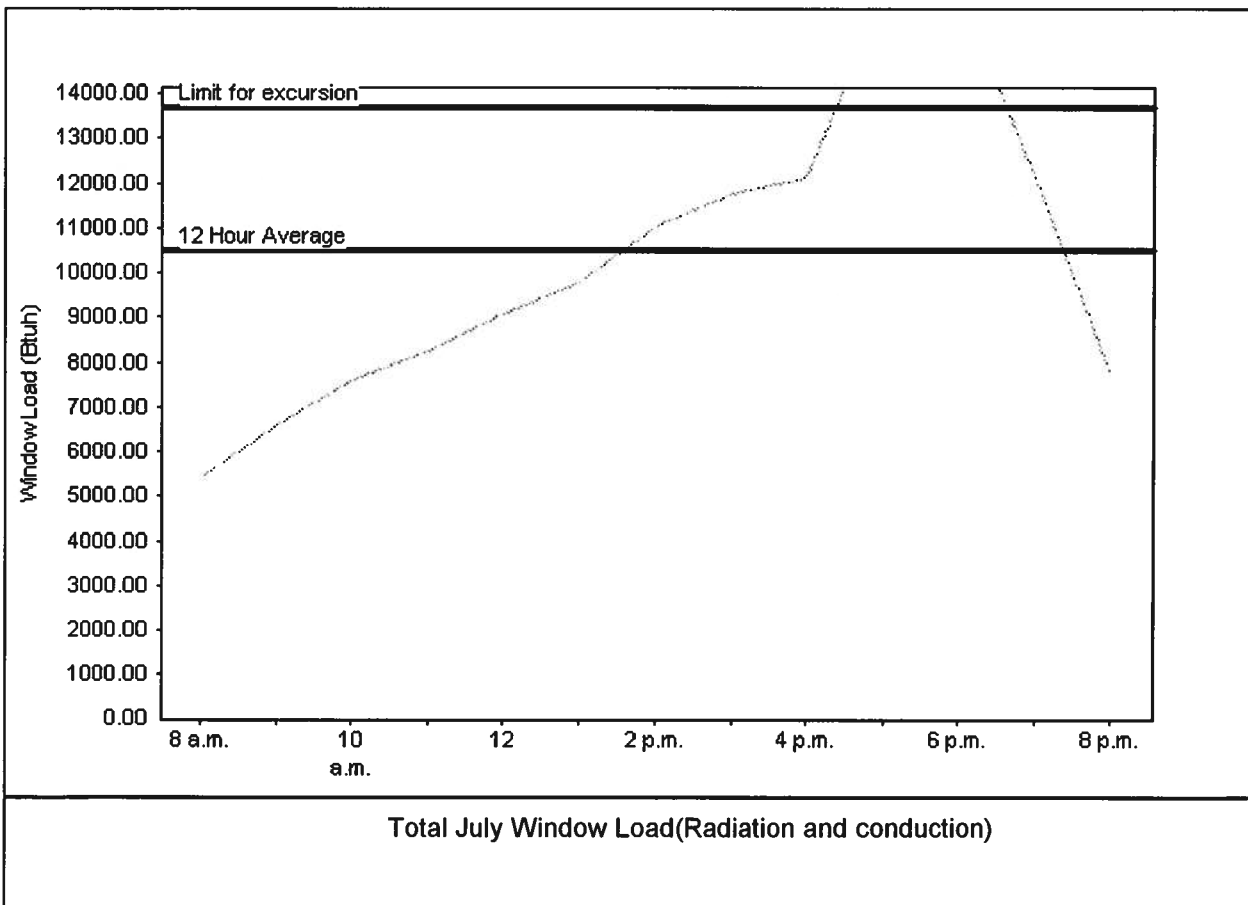
Class 3 Rating
Registration No. 0
Climate: North

5/19/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10516 Btu
Summer setpoint	75 F	Peak window load for July	16377 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	13671 Btu
Latitude	29 North	Window excursion (July)	2706 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *5-22-06*

EnergyGauge® FLR2PB v4.1



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:1SWK215-Z0824101456

Truss Fabricator: W.B. Howland
Job Identification: 3442-/BILL HARPER /CONTRACTOR -- , **

Truss Count: 36

Model Code: Florida Building Code 2004

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

Engineering Software: Alpine Software, Version 7.24.

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

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

Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: A11015EN-GBLLETIN-A11015EE-

Seal Date: 04/24/2006

-Truss Design Engineer-
James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	77667--A-1		06111204	04/21/06
2	77668--A-2		06114005	04/24/06
3	77669--A-3		06111206	04/21/06
4	77670--A-4		06111207	04/21/06
5	77671--A-5		06111208	04/21/06
6	77672--A-6		06111205	04/21/06
7	77673--A-7		06111209	04/21/06
8	77674--AG-1		06114001	04/24/06
9	77675--EJ2		06111210	04/21/06
10	77676--EJ3		06111211	04/21/06
11	77677--EJ5		06111212	04/21/06
12	77678--EJ6		06111213	04/21/06
13	77679--EJ7		06111214	04/21/06
14	77680--EJ2A		06111215	04/21/06
15	77681--EJ5A		06111216	04/21/06
16	77682--EJ6A		06111217	04/21/06
17	77683--EJ7A		06111218	04/21/06
18	77684--EJ7B		06111219	04/21/06
19	77685--EJ7C		06111220	04/21/06
20	77686--EJG5		06111221	04/21/06
21	77687--GE1		06114002	04/24/06
22	77688--JC1		06111222	04/21/06
23	77689--JC2		06111223	04/21/06
24	77690--JC3		06111224	04/21/06
25	77691--JC4		06111225	04/21/06
26	77692--JC5		06111226	04/21/06
27	77693--JC6		06111227	04/21/06
28	77694--JH7		06111228	04/21/06
29	77695--JH9		06114006	04/24/06
30	77696--JH9A		06111229	04/21/06
31	77697--JH9B		06114003	04/24/06
32	77698--MH1		06111230	04/21/06
33	77699--S1		06111231	04/21/06
34	77700--S2		06111232	04/21/06
35	77701--S3		06111233	04/21/06
36	77702--SG1		06114004	04/24/06



Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Page 1 of 1 Document ID:1SWK215-Z0824101456

Truss Fabricator: W.B. Howland
Job Identification: 3442-/BILL HARPER /CONTRACTOR -- , **
Truss Count: 3
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.24.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Seal Date: 04/24/2006

-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	77668--A-2		06114005	04/24/06
2	77669--A-3		06111206	04/21/06
3	77695--JH9		06114006	04/24/06

ALPINE



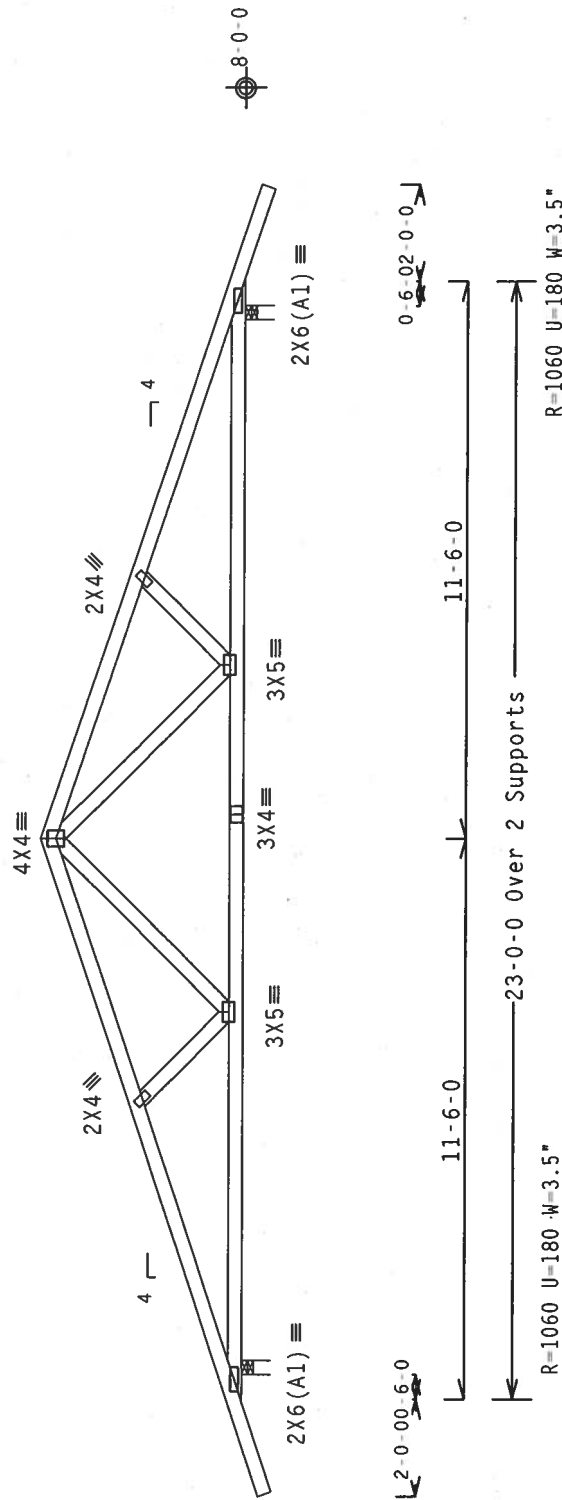
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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

The overall height of this truss excluding overhang is 4-1-15.

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.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

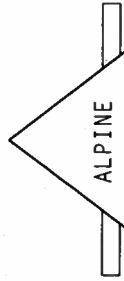
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Scale = .25"/Ft.

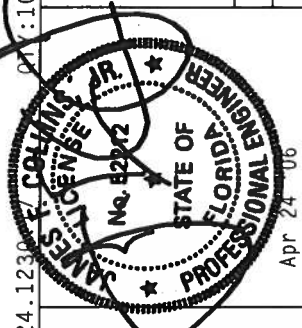
TC LL	20.0 PSF	REF	R215--	77667
TC DL	10.0 PSF	DATE	04/21/06	
BC DL	10.0 PSF	DRW	HCUSR215	06111204
BC LL	0.0 PSF	HC-ENG	RK/WHK	
TOT.LD.	40.0 PSF	SEON-	12377	
DUR.FAC.	1.25	FROM	LRB	
SPACING	24.0"	JREF-	1SWK215_Z08	

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 D'ONOFRIO 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. 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 2010/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (W. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS 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.
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, 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

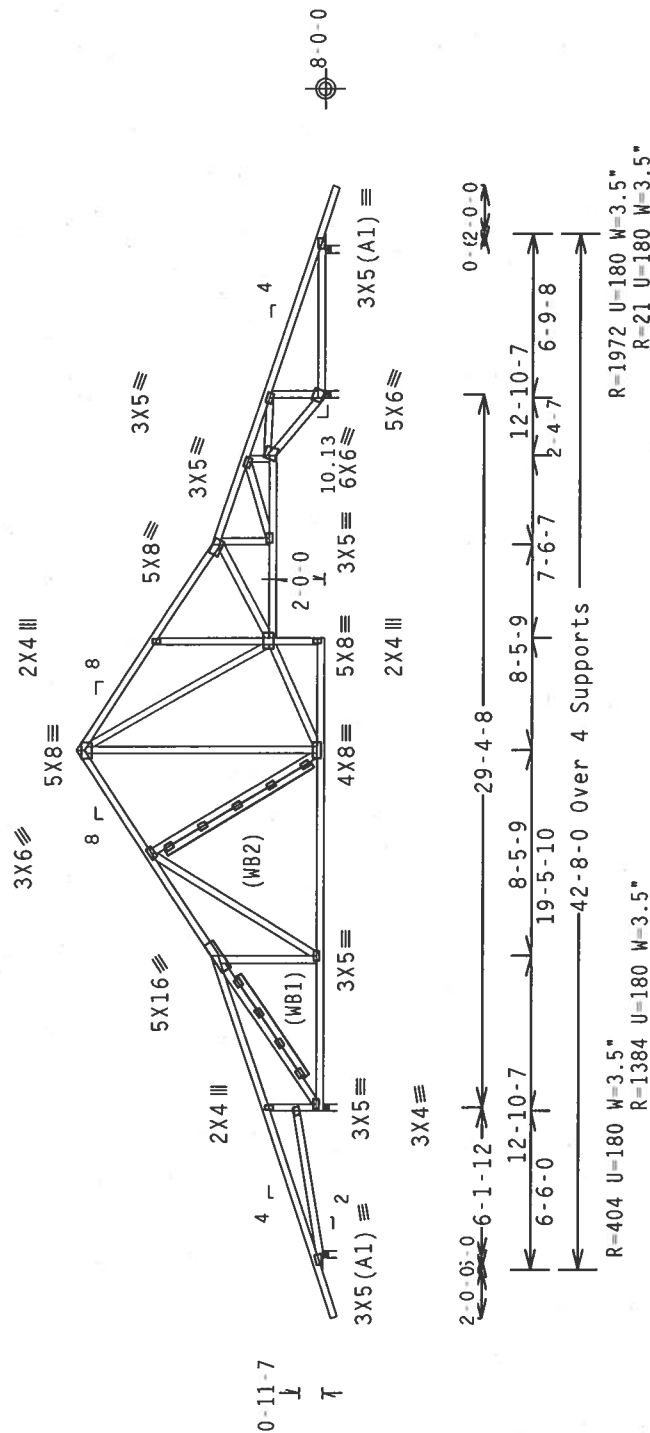
WB: Web-Blocks are 2x4 of grade: WB1 = SP #2 N, WB2 = SP #2 N ;
and fastened to web with W3x4 or larger plates. See DRWG
BRWEB810CK1103 for further details.

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

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

The overall height of this truss excluding overhang is 10'-3"-2.

Shim all supports to solid bearing.



Design Crit: TPI-2002(STD)/FBC

QTY:1 FL/-/5/-/-/R/- Scale = .125"/ft.

PLT TYP. Wave

*****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PACE INSTITUTE, 583 K. OMBRIO RD., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., SUITE 33519) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED TOP CHORD 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, DESIGNER SHALL BE RESPONSIBLE. PROVIDE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE CONNECTIONS. PROVIDE 2" GALV. STEEL CONNECTOR PLATES ARE MADE OF 2018/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/10

ALPINE

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

FLORISSA CITY, FL 33844
El Certificate of Authorization # 567

REF	R215	--	77668
DATE	04/24/06		
DRW	HCUSR215	06114005	
HC-ENG	RK/WHK		
SEQN-	12418	REV	
FROM	LRB		
DUR.FAC.	1.25		
SPACING	24.0"		

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

WB: Web-Blocks are 2x4 of grade: WB1 = SP #2 N, WB2 = SP #2 N,
WB3 = SP #2 N; and fastened to web with W3X4 or larger plates.
See DRWG BRWE88LOCK1103 for further details.

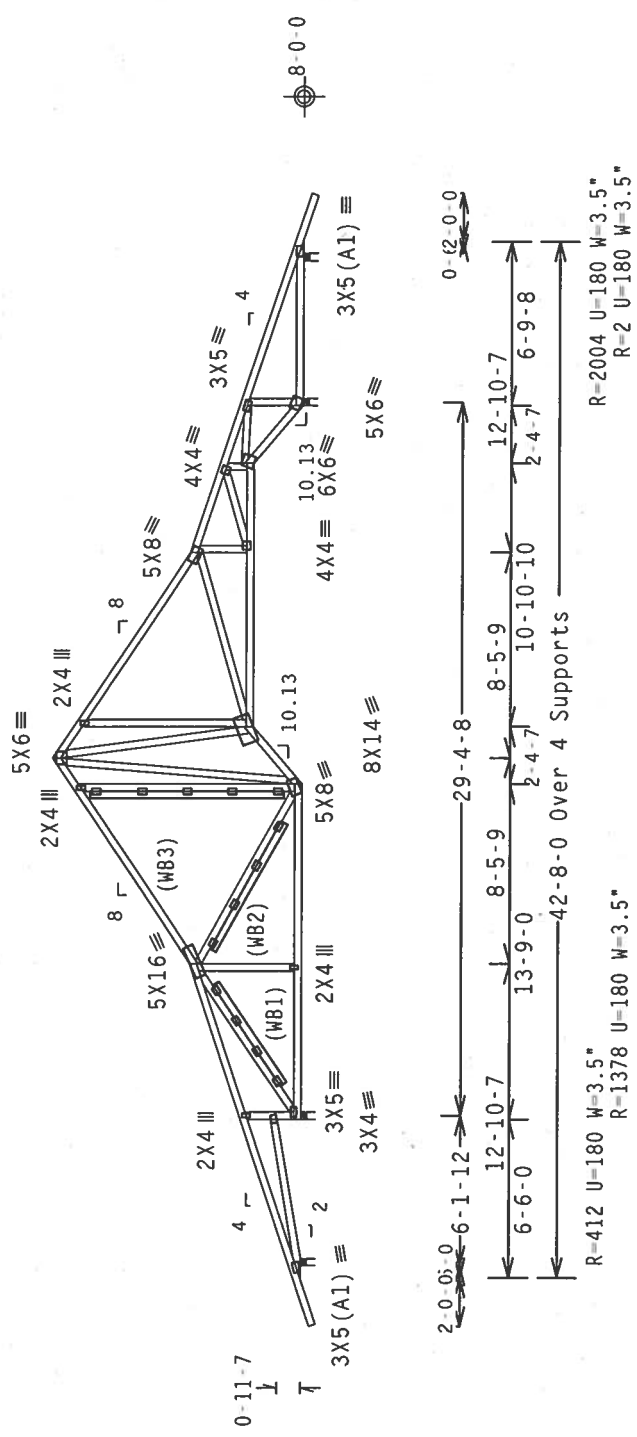
Shim all supports to solid bearing.

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.

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

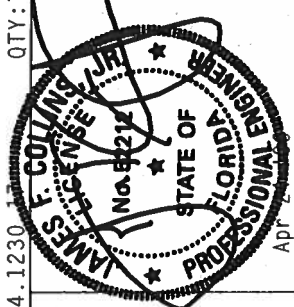
Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 10-3-2.



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

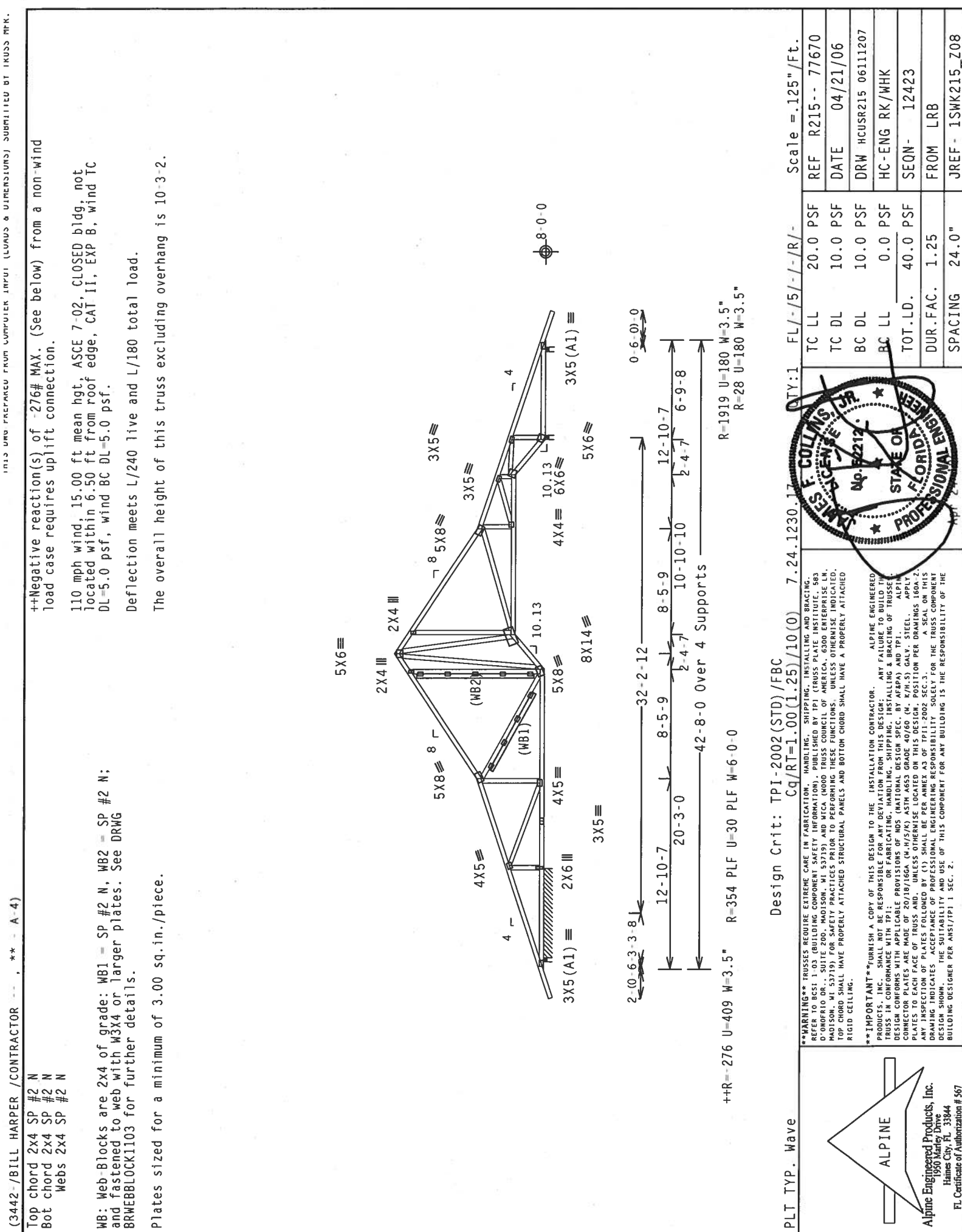
PLT TYP. Wave	QTY: 7	FL / - / 5 / - / - / R / -	Scale = .125" / Ft.
REF	R215 - -	77669	
DATE	04/21/06		
DRW	HCUSR215	06111206	
HC-ENG	RK/WHK		
SEQN-	12425	REV	
FROM	LRB		
JREF-	1SWK215_Z08		



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PULPIT INSTITUTE), 13 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND NITA (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 AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS DRAWING INDICATES THE DESIGNER'S PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN, SHOW THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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(3442- /BILL HARPER /CONTRACTOR -- , ** - A-4)

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

WB: Web-Blocks are 2x4 of grade: WB1 = SP #2 N, WB2 = SP #2 N;
and fastened to web with W3X4 or larger plates. See DRWG
BRWE88LOCK1103 for further details.

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

++Negative reaction(s) of -276# MAX. (See below) from a non-wind
load case requires uplift connection.

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.

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

The overall height of this truss excluding overhang is 10-3-2.

++R=-276 U=409 W=3.5" R=354 PLF U=30 PLF W=6-0-0

R=1919 U=180 W=3.5"
R=28 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/5/-/R/-

Scale =.125"/Ft.

PLT TYP. Wave

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ALPINE

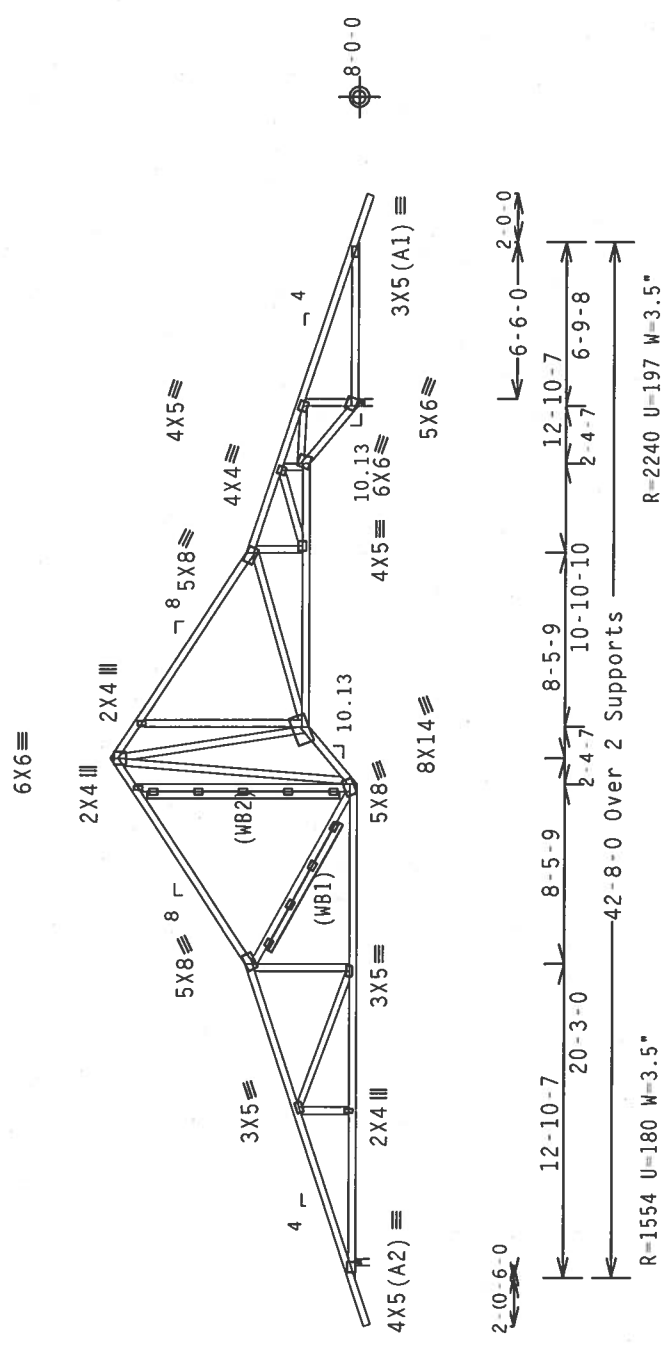
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.
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 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

WB: Web-Blocks are 2x4 of grade: WB1 = SP #2 N, WB2 = SP #2 N; and fastened to web with W3X4 or larger plates. See DRWG BRWEBLOCK1103 for further details.

The overall height of this truss excluding overhang is 10-3-2.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	QTY: 2	FL/-/5/-/-/R/-	Scale = .125"/Ft.
ALPINE Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567	REF	R215--	77671
	DATE	04/21/06	
	DRW	HCUSR215	06111208
	HC-ENG	RK/WHK	
	SEQN--	12509	
	FROM	LRB	
	JREF-	1SWK215_Z08	

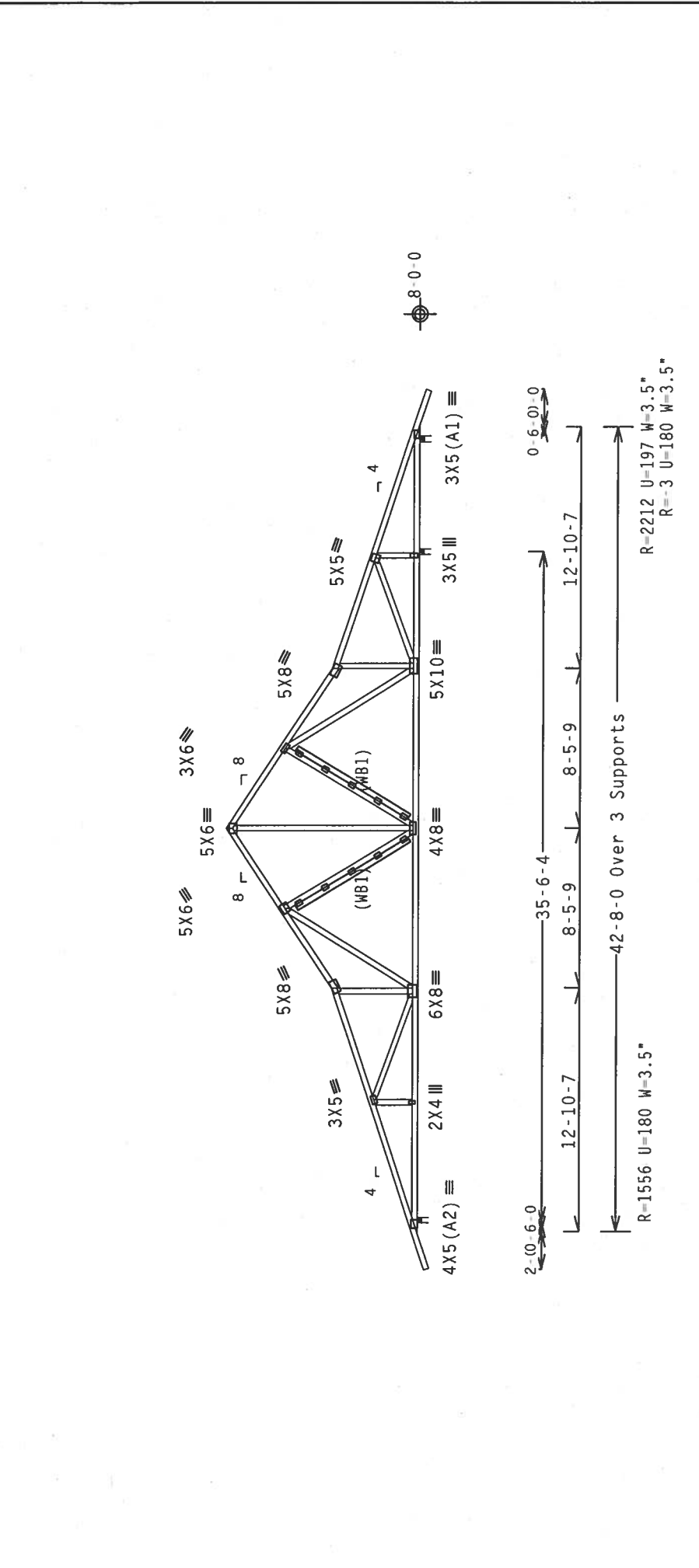
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.
Plates sized for a minimum of 3.00 sq.in./piece.

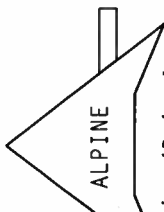
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

WB: Web-Blocks are 2x4 of grade: WB1 = SP #2 N, and fastened to web with W3x4 or larger plates. See DRWG BRWEBBLOCK1103 for further details.

The overall height of this truss excluding overhang is 10'-3"-2.



PLT TYP. Wave



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Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230 12.10.7

Scale = .125"/Ft.

REF	R215--	77672
DATE	04/21/06	
DRW	HCUSR215	06111205
HC-ENG	RK/WHK	
SEQN-	12500	
FROM	LRB	
JREF-	1SWK215_Z08	

QTY: 6 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"

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Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N :B1 2x4 SP #2 Dense:
Webs 2x4 SP #2 N

SPECIAL LOADS

- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
- TC - From 61 PLF at -2.00 to 61 PLF at 25.00
- BC - From 4 PLF at -2.00 to 4 PLF at 0.00
- BC - From 20 PLF at 0.00 to 20 PLF at 23.00
- BC - From 4 PLF at 23.00 to 4 PLF at 25.00
- BC - 124 LB Conc. Load at 5.06
- BC - 34 LB Conc. Load at 6.27, 8.27, 10.27, 12.15
- BC - 135 LB Conc. Load at 5.04,
- BC - 94 LB Conc. Load at 6.25, 8.26, 10.32, 12.13

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

* MEMBER TO BE BRACED BY PROPERLY ATTACHED PLYWOOD SHEATHING.

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.

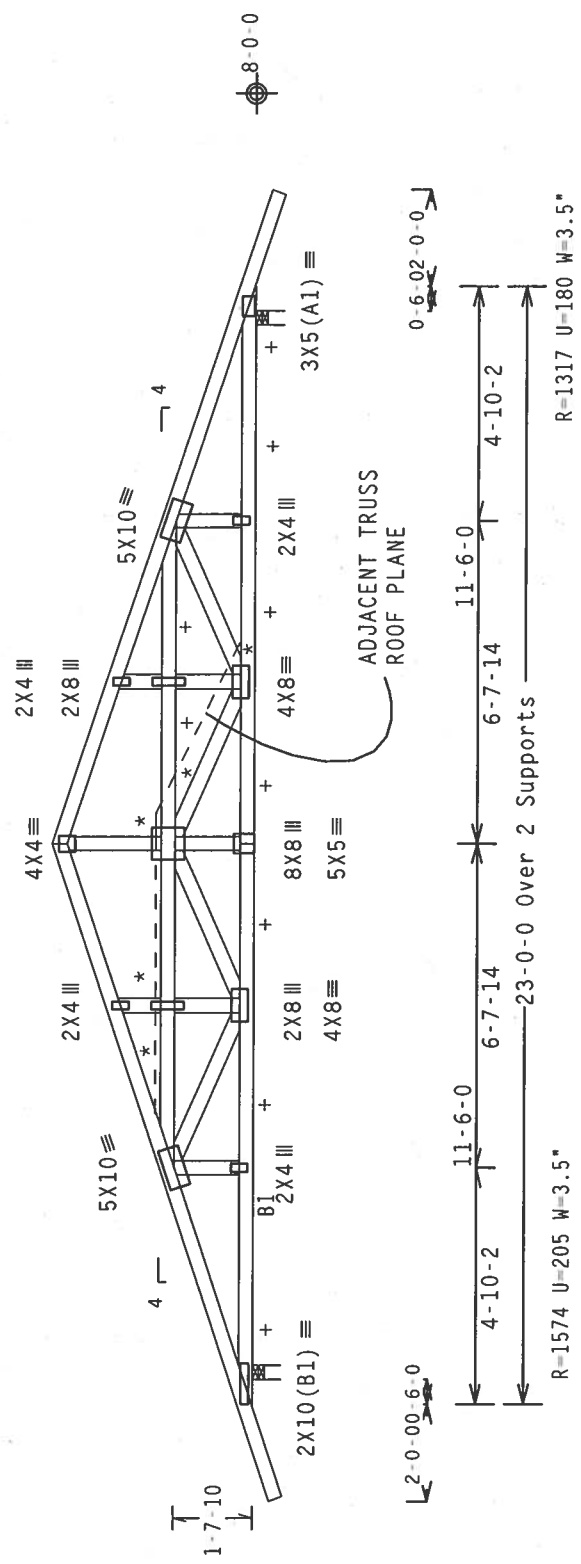
Deflection meets L/240 live and L/180 total load.

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

The overall height of this truss excluding overhang is 4-1-15.

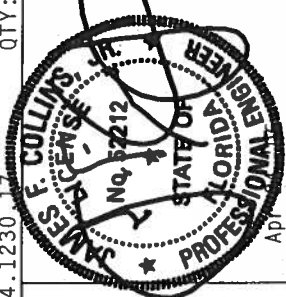
The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

See DWGS A11015EE0405 & G8LLETIN0405 for more requirements.



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

PLT TYP. Wave	QTY:1	FL/-/5/-/-/R/-	Scale = .25"/Ft.
	TC LL	20.0 PSF	REF R215-- 77674
	TC DL	10.0 PSF	DATE 04/24/06
	BC DL	10.0 PSF	DRW HCURS215 06114001
	BC LL	0.0 PSF	HC-ENG RK/WHK
	TOT.LD.	40.0 PSF	SEQN- 12548
	DUR.FAC.	1.25	FROM LRB
	SPACING	24.0"	JREF- 1SWK215_Z08



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCA (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 AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS ANNEX INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER. SHOW 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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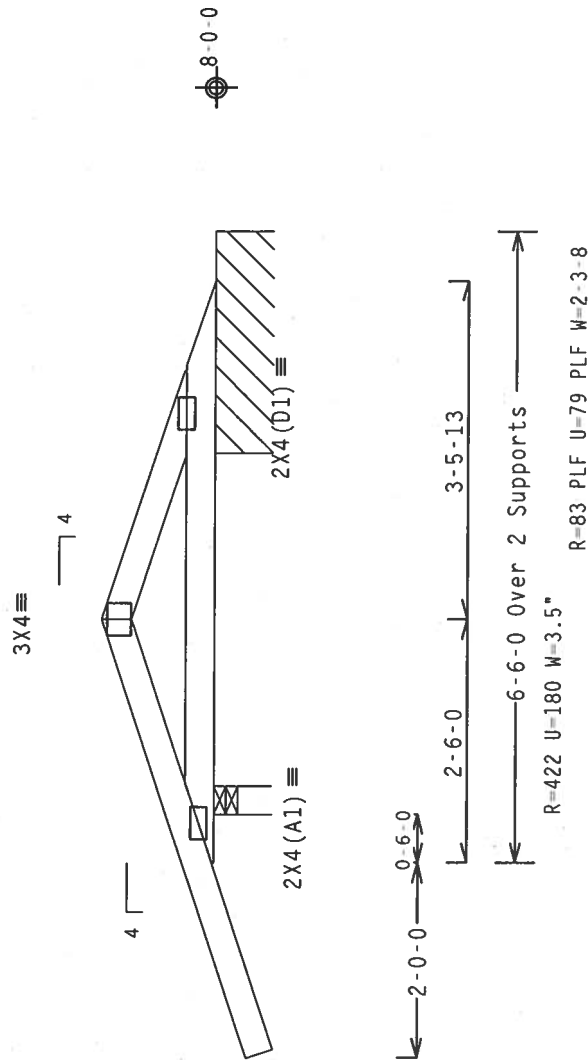
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N

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.

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

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

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



Design Crit: TPI-2002(STD)/FBC

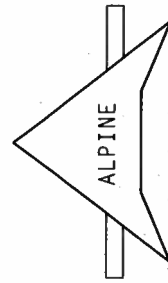
$$Cq/RT = 1.00(1.25)/10(0) \quad 7.24.1230$$

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO BESS 1-103 (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 N. 10TH AVE., SUITE 100, MINNEAPOLIS, MN 55412, (612) 338-1515, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR FURTHER INFORMATION ON THE PROPER FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSS CHORDS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BEING OTHERWISE INDICATED. RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED DESIGN, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE DESIGN IN ACCORDANCE WITH THE PROJECT FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE DESIGN SPECIFICALLY CALLS FOR THE PROPOSED TRUSS DESIGN SPEC. BY APAPA AND TP1. ALL CONNECTOR PLATES ARE MADE OF 2018/1868 (IN W/2X16) ASTM A572M GRADE 50 STEEL. PLATES TO EACH FACE OF TRUSS AND UGERS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER FIGURES 1600, 2 AND 3. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

PLT TYP. Wave



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FL Certificate of Authorization # 567

TC LL	20.0	PSF	REF	R215--	77675
TC DL	10.0	PSF	DATE	04/21/06	
BC DL	10.0	PSF	DRW	HCUSR215	0611210
BC LL	0.0	PSF	HC-ENG	RK/WHK	
TOT.LD.	40.0	PSF	SEQN-	12410	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1SWK215	Z08

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

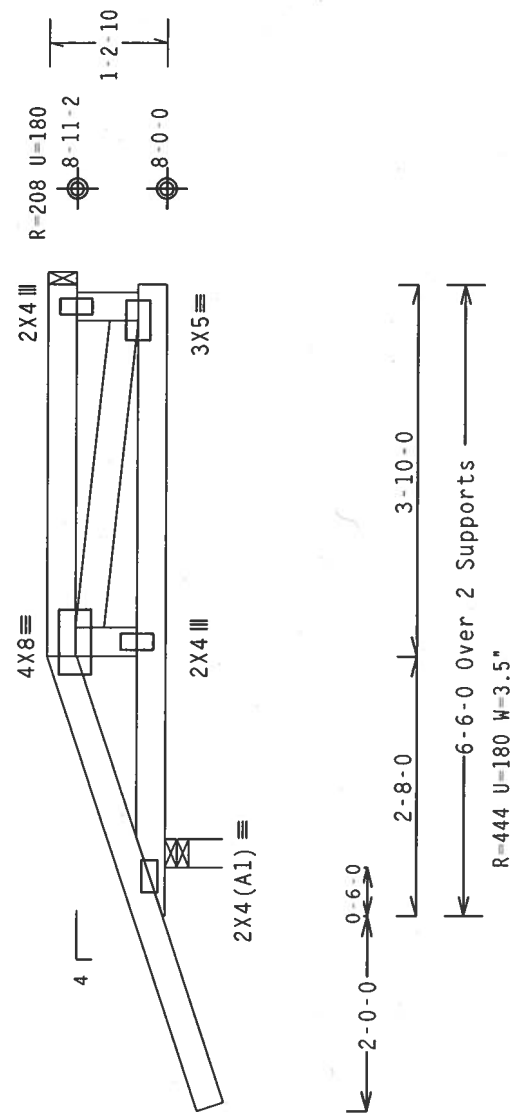
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

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

The overall height of this truss excluding overhang is 1-2-10.



Design Crit: TPI-2002(STD)/FBC

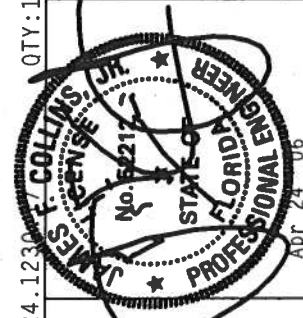
 $Cq/RT=1.00(1.25)/10(0)$ 7.2

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

Scale = .5"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 593 D'AMORIO 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.

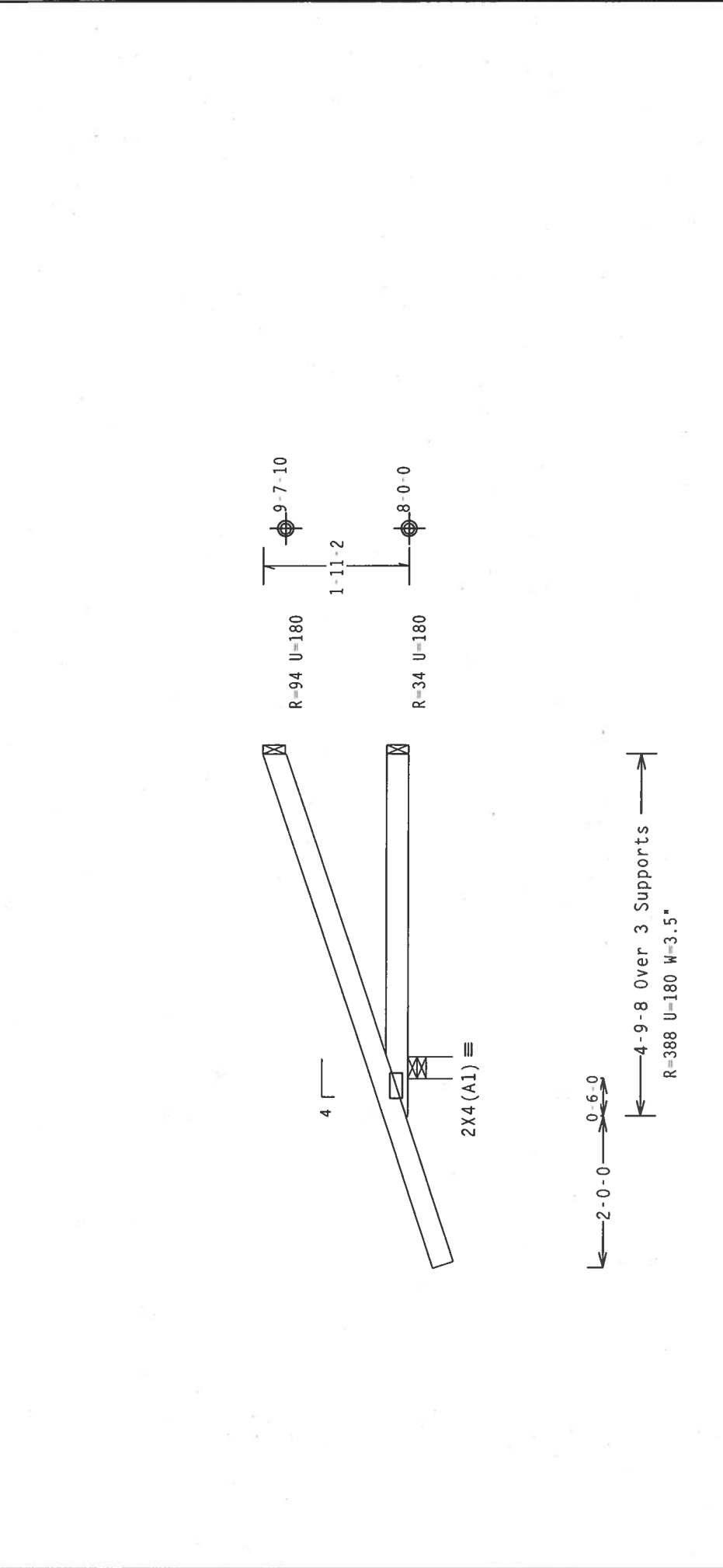
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS INC. HAS NO LIABILITY OR OBLIGATION FOR THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE MANUFACTURING INSTRUCTIONS, INCLUDING THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/1668 (M18X25) ASTM A633 GRADE 40/50 (M. K/H-SI) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THE POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX (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
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 1-11-2.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
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) 7.24.1230.17 QTY:4 FL/-/5/-/-/R/- Scale =.5"/Ft.

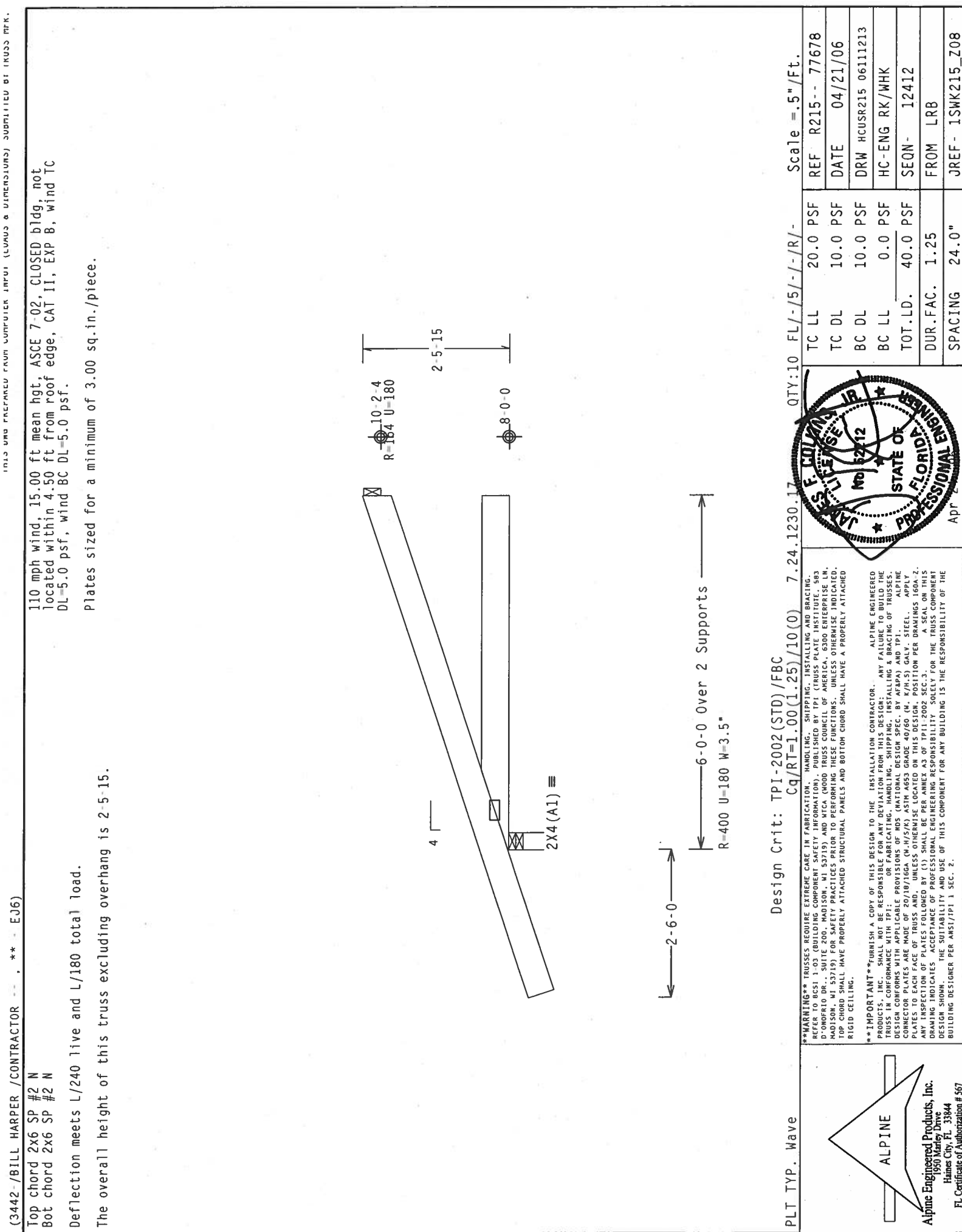
ALPINE

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

STATE OF FLORIDA
PROFESSIONAL ENGINEER
ALPINE ENGINEER
NO 62212

APR 2

TC LL	20.0 PSF	REF	R215--	77677
TC DL	10.0 PSF	DATE	04/21/06	
BC DL	10.0 PSF	DRW	HCUSR215	06111212
BC LL	0.0 PSF	HC-ENG	RK/WHK	
TOT.LD.	40.0 PSF	SEQN-	12513	
DUR.FAC.	1.25	FROM	LRB	
SPACING	24.0"	JREF-	1SWK215_Z08	



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.

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

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

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

The overall height of this truss excluding overhang is 2'-5-15.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

PLT TYP. Wave

Scale = .5" / Ft.

REF: R215-- 77678

DATE: 04/21/06

DRW: HCUR215 06111213

HC-ENG: RK/WHK

SEQN: 12412

FROM: LRB

JREF: 1SWK215_Z08

QTY: 10 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"

APR 2 2006

STATE OF FLORIDA

PROFESSIONAL ENGINEER

ALPINE ENGINEERED PRODUCTS, INC.

1950 Marley Drive

Haines City, FL 33844

FL Certificate of Authorization # 567

ALPINE

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1950 Marley Drive

Haines City, FL 33844

FL Certificate of Authorization # 567

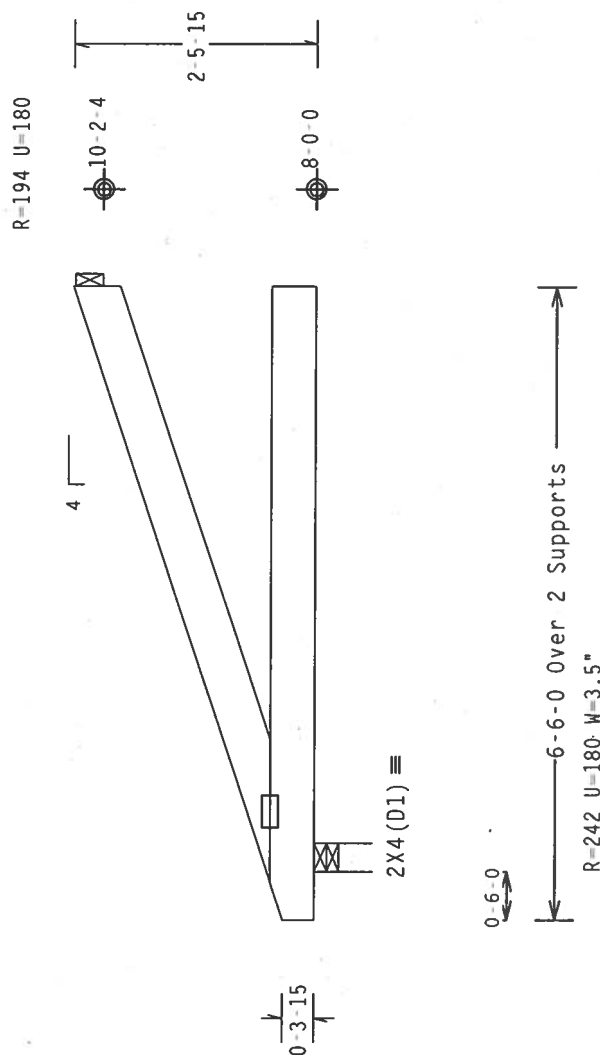
Top chord	2x6	SP	#2	N
Bot chord	2x6	SP	#2	N

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.

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

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

The overall height of this truss excluding overhang is 2-5-15.

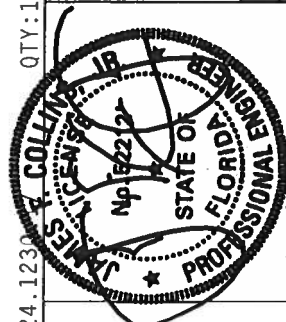


PLT TYP. Wave

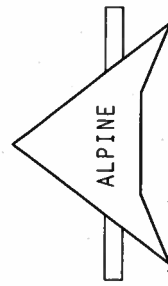
QTY:1 FL/-/5/-/-/R/-

Scale = .5" / Ft.

TC LL	20.0	PSF	REF	R215--	77679
TC DL	10.0	PSF	DATE	04/21/06	
BC DL	10.0	PSF	DRW	HCUSR215	06111214
BC LL	0.0	PSF	HC-ENG	RK/WHK	
TOT.LD.	40.0	PSF	SEQN-	12416	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1SWK215	Z08



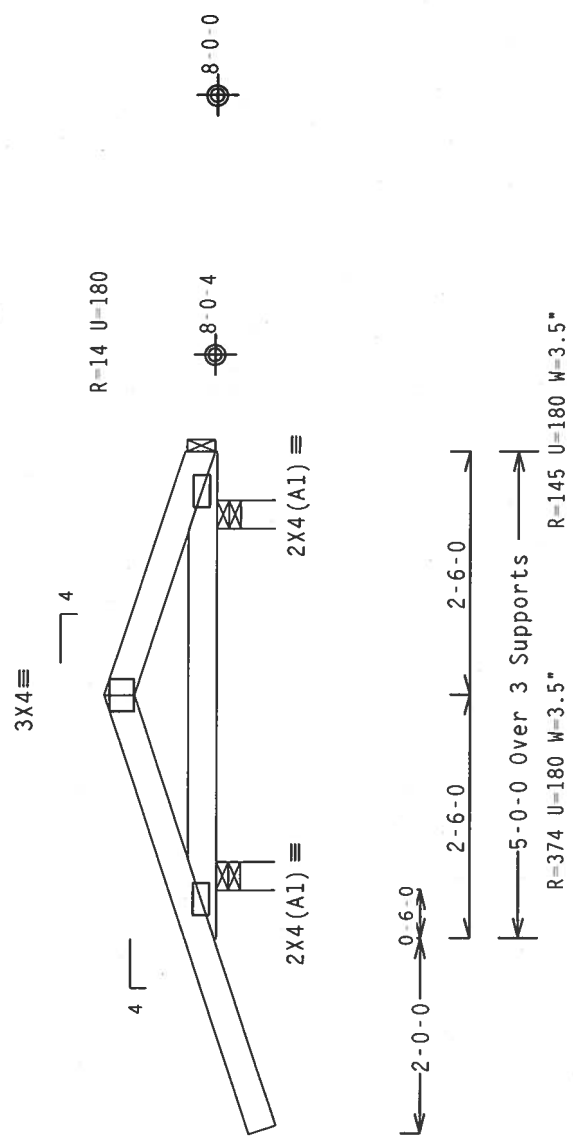
Apr 24 '06



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

FL Certificate of Authorization # S67

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 11-1-15.
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.
Plates sized for a minimum of 3.00 sq.in./piece.



PLT TYP. Wave

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

Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230.17

Scale = .5" / Ft.

REF	R215 --	77680
DATE	04/21/06	
DRW	HCUSR215	06111215
HC-ENG	RK/WHK	
SEQN	12381	
FROM	LRB	
JREF	1SWK215_Z08	

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"

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 (N.N/S/K) ASTM A653 GRADE 40/60 (N. K/N.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING SHALL BE THE SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE 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, 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.

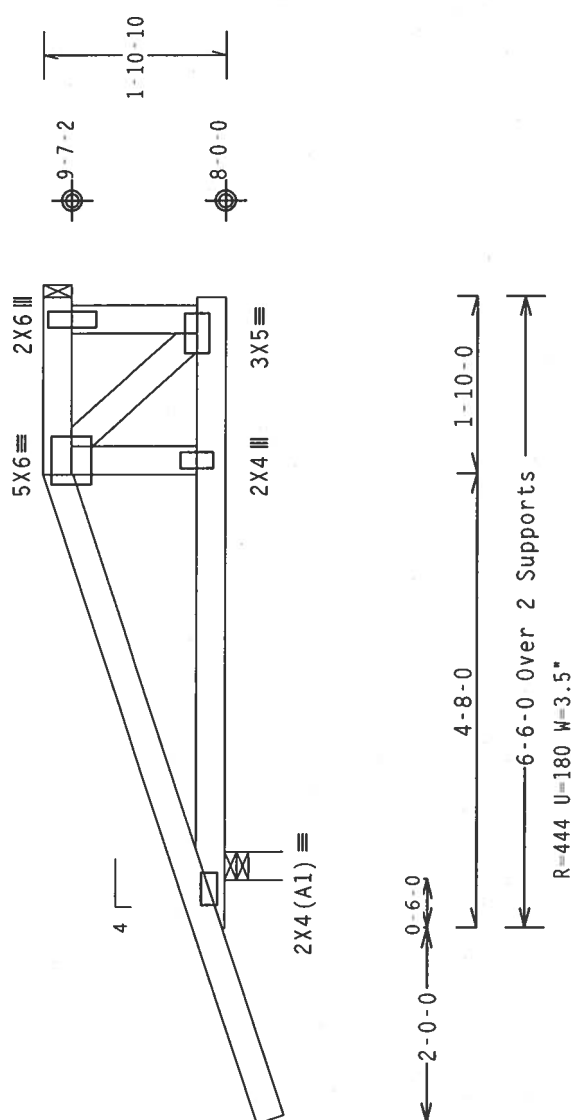
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

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

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

R=208 U=180



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	7.24.1230	FL/-5/-/-R/-	Scale =.5"/Ft.
REF R215-- 77681	TC LL 20.0 PSF	QTY: 1	
DATE 04/21/06	TC DL 10.0 PSF		
DRW HCUSR215 06111216	BC DL 10.0 PSF		
HC-ENG RK/WHK	BC LL 0.0 PSF		
SEQN- 12538	TOT.LD. 40.0 PSF		
FROM LRB	DUR.FAC. 1.25		
JREF- 1SWK215_Z08	SPACING 24.0"		

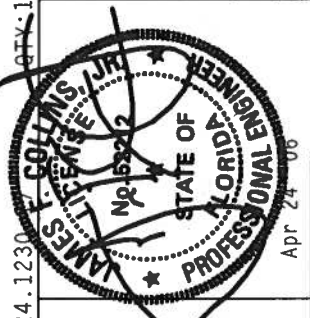
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 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 AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (M. K/M-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY ASPECT OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING SIGNIFIES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN HEREON 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 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

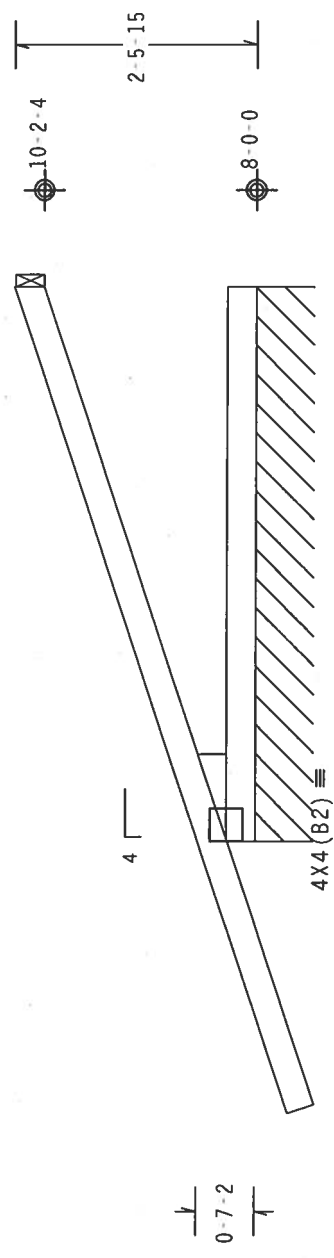


JAMES COLLINS, JR.
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 6322
Apr 24 '06

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
:Lt Wedge 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.

Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 2-5-15.

R=135 U=180



2-9-8
5-8-8 Over 2 Supports
R=89 PLF U=32 PLF W=5-8-8

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	QTY:1		FL/-/5/-/-/R/-	Scale =.5"/Ft.	
ALPINE Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844	7.24.1230		TC LL	20.0 PSF	REF R215-- 77682
	Cq/RT=1.00 (1.25) /10 (0)		TC DL	10.0 PSF	DATE 04/21/06
	design crit: IPT-2002(SIU)/FBC		BC DL	10.0 PSF	DRW HCUR215 06111217
	Cq/RT=1.00 (1.25) /10 (0)		BC LL	0.0 PSF	HC-ENG RK/WHK
			TOT.LD.	40.0 PSF	SEQN- 12421
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BG51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPT (TRUSS PLATE INSTITUTE, 593 WEST 10TH AVE, SUITE 100, DENVER, CO 80202), AND ICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES. THE FOLLOWING INFORMATION IS FOR YOUR INFORMATION ONLY. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL BE DESIGNED TO BE USED AS A TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.			DUR.FAC. 1.25		
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 IPT: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AEP&A) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (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. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IPT1 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/PTI 1 SEC. 2.			FROM LRB		
			SPACING 24.0"		
			JREF- 1SWK215_Z08		
			Apr 24 '06		

****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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WIGA (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. THE USER OF THIS DESIGN SHALL BE RESPONSIBLE FOR PROVIDING THE PROPERLY ATTACHED RIGID CEILING. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE USER OF THIS DESIGN SHALL BE RESPONSIBLE FOR PROVIDING THE PROPERLY ATTACHED RIGID CEILING. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE USER OF THIS DESIGN SHALL BE RESPONSIBLE FOR PROVIDING THE PROPERLY ATTACHED RIGID CEILING.



ALPINE

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

(3442-/BILL HARPER /CONTRACTOR -- ** - EJ7A)

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

(J) hanger connection not found in inventory file for this condition. Provide connection.

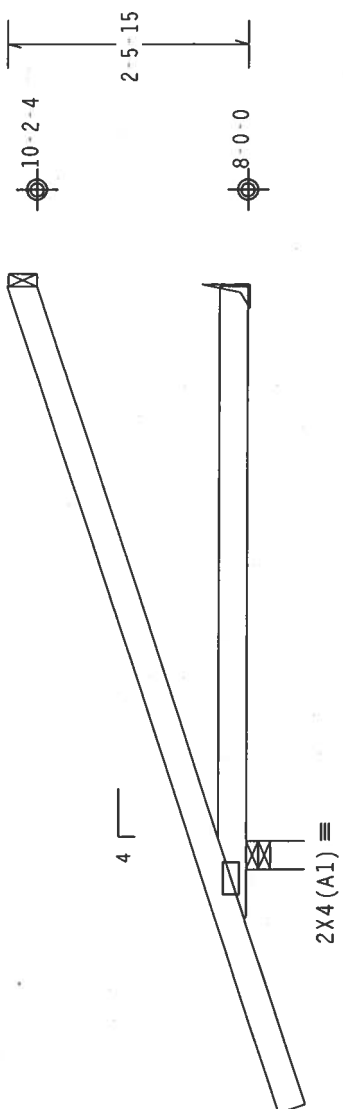
Plates sized for a minimum of 3.00 sq.in./piece.

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.

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

The overall height of this truss excluding overhang is 2-5-15.

R=150 U=180



L=2-0-0 0-6-0

6-6-0 Over 3 Supports

R=444 U=180 W=3.5"

R-60 U=180 H=Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2x6 min. (H)

Design Crit: TPI-2002(STD)/FBC

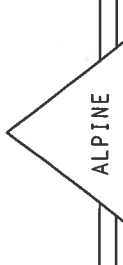
Cq/RT=1.00(1.25)/10(0)

Scale = .5" / Ft.

PLT TYP. Wave

****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, 563 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 AF&PA) AND TPI. ALPINE APPLIES TO EACH FACE OF TRUSS. TOP CHORD SHALL BE GRADE 40/60 (N. 474.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. DRAMING 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.

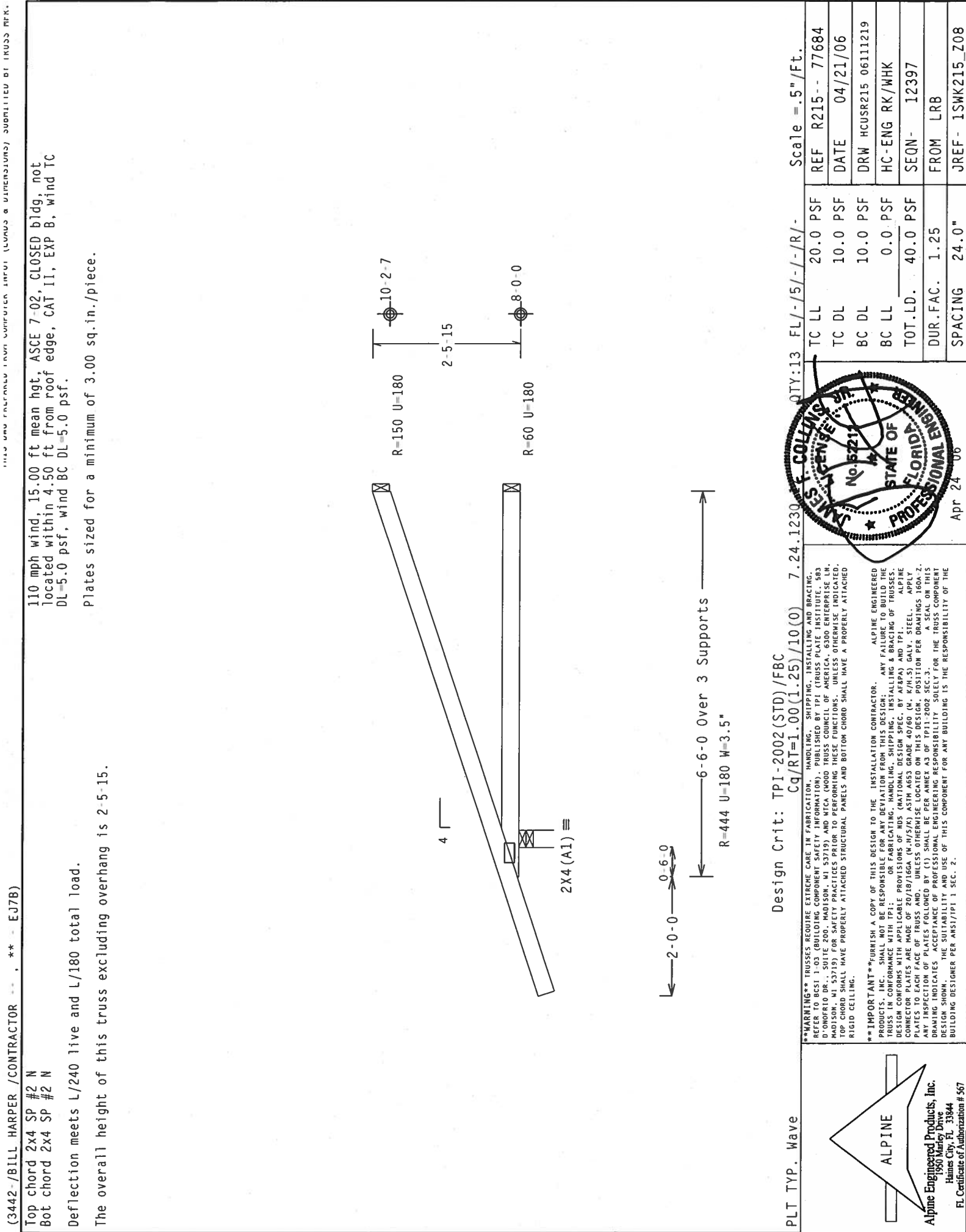


Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567



James F. Collins
Professional Engineer
State of Florida
License No. 82212
Apr 24 '06

REF	R215--	77683
DATE	04/21/06	
DRW	HCUSR215	06111218
HC-ENG	RK/WHK	
SEQN-	12414	
FROM	LRB	
JREF-	1SWK215_Z08	



(3442-BILL HARPER /CONTRACTOR -- ** - EJ78)

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

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

The overall height of this truss excluding overhang is 2-5-15.

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.

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) 7.24.1230 QTY:13 FL/-/5/-/5/-/R/- Scale =.5"/Ft.

REF	R215--	77684
DATE	04/21/06	
DRW	HCUSR215	06111219
HC-ENG	RK/WHK	
SEQN-	12397	
FROM	LRB	
JREF-	1SWK215	Z08

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:13 FL/-/5/-/5/-/R/- Scale =.5"/Ft.

TC LL	20.0 PSF
TC DL <td>10.0 PSF</td>	10.0 PSF
BC DL <td>10.0 PSF</td>	10.0 PSF
BC LL <td>0.0 PSF</td>	0.0 PSF
TOT.LD. <td>40.0 PSF</td>	40.0 PSF
DUR.FAC. <td>1.25</td>	1.25
SPACING <td>24.0"</td>	24.0"

ALPINE

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

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 52217
APR 24 2006

ALPINE

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

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 52217
APR 24 2006

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PROFESSIONAL ENGINEER
No. 52217
APR 24 2006

The overall height of this truss excluding overhang is 2-5-15.



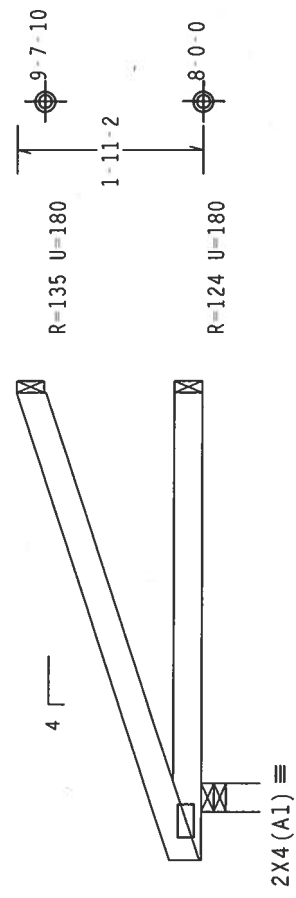
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 1-11-2.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at 0.00 to 61 PLF at 4.79
BC - From 20 PLF at 0.00 to 20 PLF at 4.79
BC - 142 LB Conc. Load at 0.85
BC - 138 LB Conc. Load at 2.85

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



0-6-0
4-9-8 Over 3 Supports
R-410 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	QTY:1	FL/-/5/-/-/R/-	Scale =.5"/Ft.
	TC LL	20.0 PSF	REF R215-- 77686
	TC DL	10.0 PSF	DATE 04/21/06
	BC DL	10.0 PSF	DRW HCUR215 06111221
	BC LL	0.0 PSF	HC-ENG RK/WHK
	TOT.LD.	40.0 PSF	SEQN- 12528
	DUR.FAC.	1.25	FROM LRB
	SPACING	24.0"	JREF- 1SWK215_Z08

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, 563 O'DONOHUE DR., SUITE 200, MADISON, WI 53719) AND METAL (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 AND 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 (N-HYS/K) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES PLACEMENT OF PROFESSIONAL ENGINEER'S SEAL. A SEAL ON THIS DESIGN SHOWS 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.
1950 Marley Drive
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Apr 24 '06

(3442- /BILL HARPER /CONTRACTOR ** - GE1)

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

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

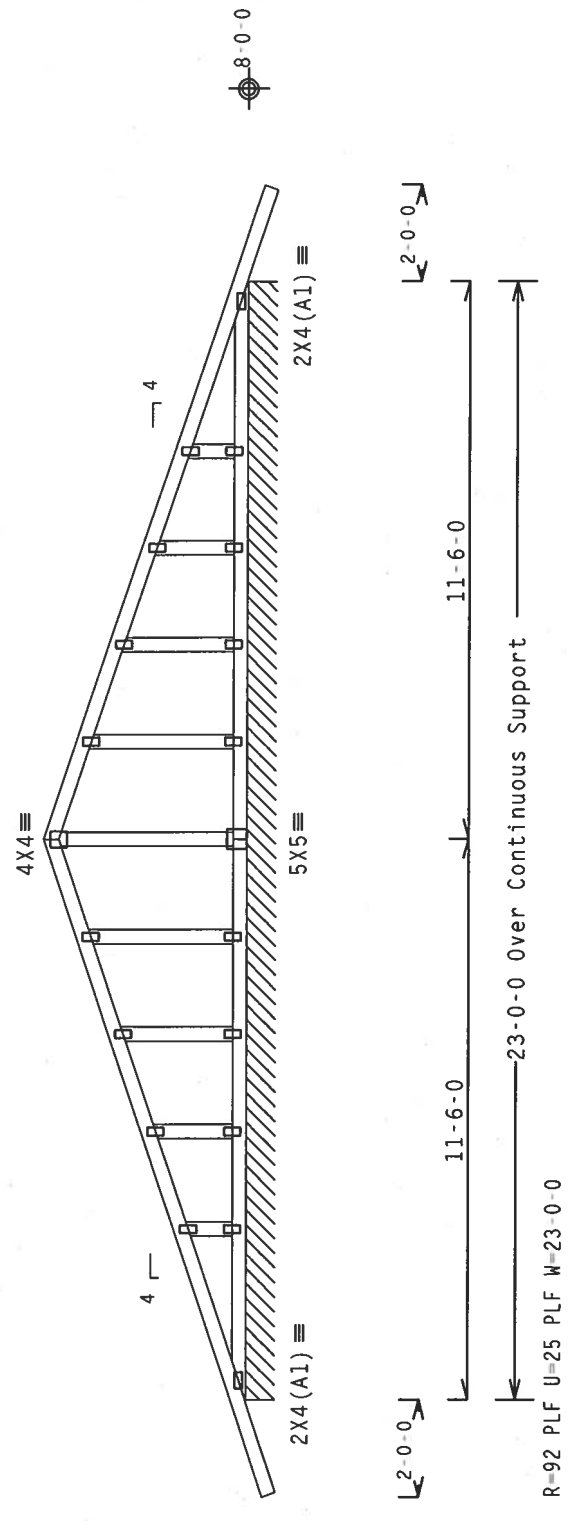
The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

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

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

The overall height of this truss excluding overhang is 4-1-15.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

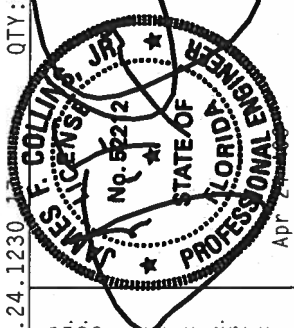
Cg/RT=1.00(1.25)/10(0)

7.24.1230

QTY: 1

Scale = .25"/Ft.

REF	R215--	77687
DATE	04/24/06	
DRW	HCUSR215	06114002
HC-ENG	RK/WHK	
SEQN-	12379	
FROM	LRB	
JREF-	1SWK215_Z08	



****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 PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 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 ENGINEER 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 (N-H/57K) ASTM A653 GRADE 40/60 (N, K/M-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING NOTES: (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TPI 1 SEC. 2.

ALPINE

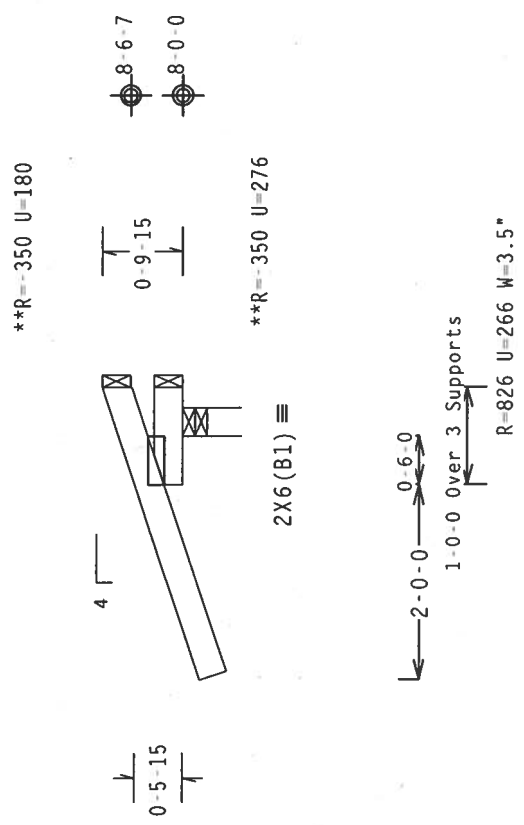
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Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

****Negative reaction(s) of -350# MAX. (See below) from a non-wind load case requires uplift connection.**

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

The overall height of this truss excluding overhang is 0-9-15.



PLT TYP. Wave

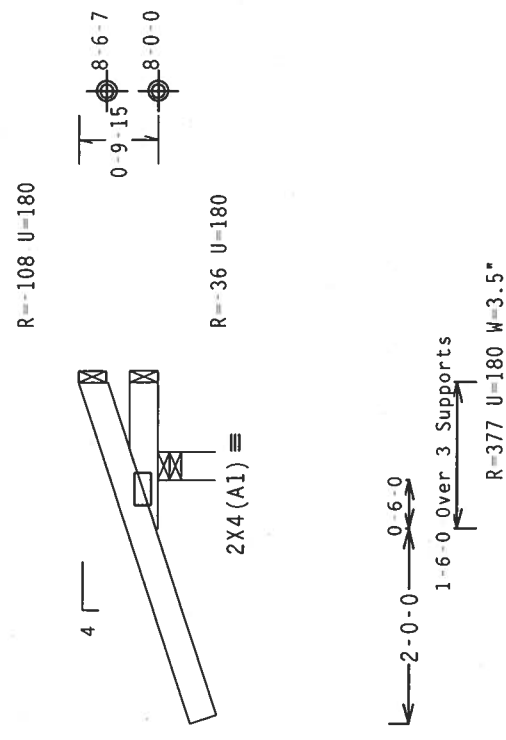
Design Crit: $\text{TPI-2002(STD)}/\text{FBC}$
 $\text{Cq}/\text{RT}=1.00(1.25)/$

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

Scale = .5"/Ft.

ALPINE ALPINE Engineered Products, Inc. 1950 Marley Drive Gaines City, FL 32644 FL Certificate of Authorization # 587	**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, 583 O'NEIL DR., SUITE 200, MADISON, WI 53719) AND WICA (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 TRUSSES 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 (N./M.S.) ASTM A653 GRADE 40/60 (N. K/M.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.	JAMES H. COLLINGS, JR. PROFESSIONAL ENGINEER STATE OF FLORIDA No. B2712 APR 24 '06																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 0-9-15.
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.
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) 7.24.1230 17

Scale = .5" / Ft.

QTY: 2	FL / - / 5 / - / - / R / -	TC LL	20.0 PSF	REF	R215 -- 77689
		TC DL	10.0 PSF	DATE	04/21/06
		BC DL	10.0 PSF	DRW	HCSR215 06111223
		BC LL	0.0 PSF	HC-ENG	RK/WHK
		TOT.LD.	40.0 PSF	SEQN-	12399
		DUR.FAC.	1.25	FROM	LRB
		SPACING	24.0"	JREF-	1SWK215_Z08

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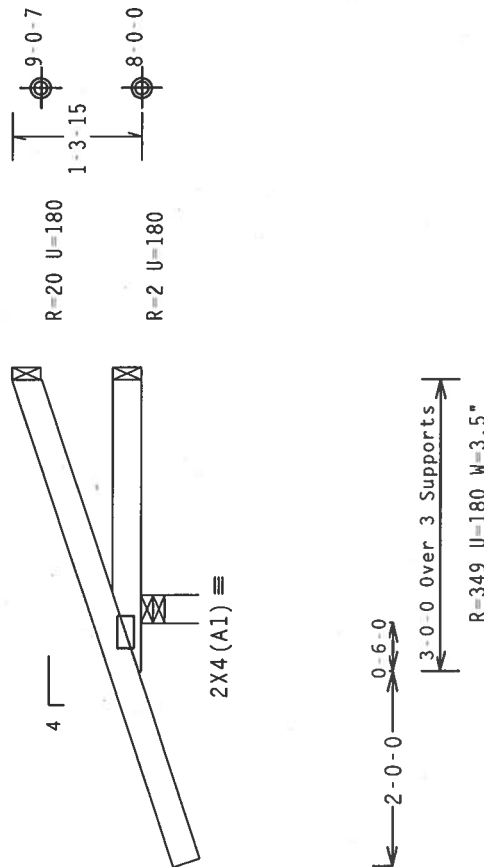
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Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

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

PLT TYP. Wave

QTY:6 FL/-/5/-/-/8/-/

Scale = 5"/Ft.

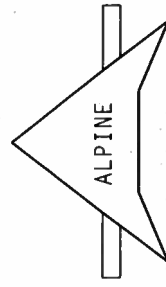
WARNING- TRUSTEES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RULES MUST BE FOLLOWED TO AVOID ACCIDENTS. RULES OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, BY CROSS PLASTIC INSTITUTE, 983 NORTH OXFORD RD., SUITE 200 MADISON, WI 53719, AND VICE PRESIDENT OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, 1801 LEXINGTON AVENUE, NEW YORK, NY 10017, HAVE BEEN DEVELOPED FOR YOUR PROTECTION. THESE RULES ARE NOT TO BE VIOLATED UNDER ANY CIRCUMSTANCES. IF YOU DO NOT AGREE WITH THESE RULES, PLEASE RETURN THIS TOP CHORD SHALL HAVE A PROPERTY ATTACHED TO IT TO IDENTIFY IT AS AN UNTESTED PRODUCT. IF YOU DO NOT AGREE WITH THESE RULES, PLEASE RETURN THIS TOP CHORD SHALL HAVE A PROPERTY ATTACHED TO IT TO IDENTIFY IT AS AN UNTESTED PRODUCT.

IMPORTANT-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH THE DRAWING, MATERIALS, MANUFACTURING, OR INSTALLATION SPECIFICATIONS SHALL BE THE DESIGNER'S RESPONSIBILITY. PROVIDE THE FOLLOWING INFORMATION AND DESIGN SPEC. INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS 2005 DESIGN SPEC. TRUSSES SHALL BE DESIGNED TO SUPPORT ALL LOADS INCLUDING DEAD, LIVE, WIND, SEISMIC, AND ALLOWABLE SNOW LOADS PER LOCAL CODES. ALL STEEL SHALL BE A36 STEEL.

CONNECTION PLATES ARE MADE OF 20X18/16GA (W/5/16) ASTM A575 GRADE 40/60 (W/ KIN.) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-2.

IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TP11-2002 SEC.3.1. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING SOLELY FOR THE TRUSS COMPONENT BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. - 2.



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

El Certificate of Authorization # 567
 Dallas City, IL 55044

Apr 24 2006

SPACING 24.0"

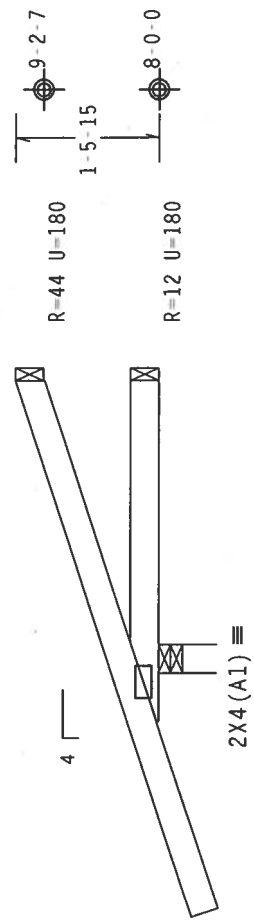
JREF- 1SWK215_Z08

JREF-1SWH

SPACING 24.0"

JREF- 1SWK215_Z08

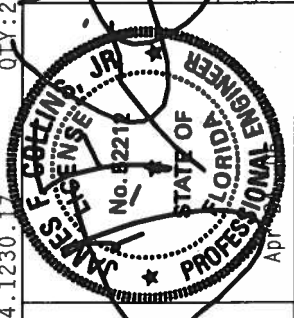
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 1-5-15.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
Plates sized for a minimum of 3.00 sq.in./piece.



2-0-0 0-6-0
3-6-0 Over 3 Supports
R-356 U=180 W=3.5"

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

PLT TYP. Wave	QTY: 2	FL/-/5/-/-/R/-	Scale =.5"/Ft.
ALPINE Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567	TC LL	20.0 PSF	REF R215-- 77691
	TC DL	10.0 PSF	DATE 04/21/06
	BC DL	10.0 PSF	DRW HCURS215 06111225
	BC LL	0.0 PSF	HC-ENG RK/WHK
	TOT.LD.	40.0 PSF	SEQN- 12401
ALPINE Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567	DUR.FAC.	1.25	FROM LRB
	SPACING	24.0"	JREF- 1SWK215_Z08



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 D'ONOFRIO 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. 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 NOS (NATIONAL DESIGN SPEC. BY AF&PA) 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 PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 13.1. A SEAL ON THIS DAY, INDICATED BY THE DESIGNER, SHALL BE REQUIRED FOR THE TRUSS COMPONENT. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

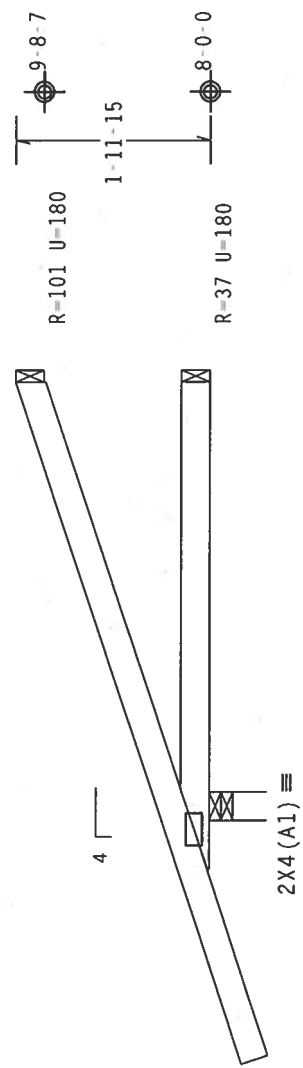
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

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

The overall height of this truss excluding overhang is 1-11-15.

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.

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



2-0-0 0-6-0

5-0-0 Over 3 Supports
R-395 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

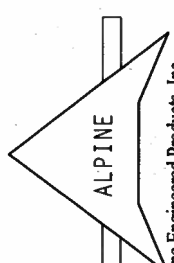
PLT TYP. Wave

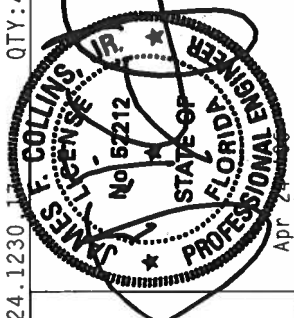
Cq/RT=1.00(1.25)/10(0)

7.24.1230.17

QTY: 4 FL/-/5/-/R/-

Scale =.5"/Ft.

 ALPINE Alpine Engineered Products, Inc. 1950 Narney Drive Haines City, FL 33844 FL Certificate of Authorization # 567	**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 PLATE INSTITUTE), 503 D'ONOFRIO 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. 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 (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. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNER. NO SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.							
	TC LL	20.0 PSF	REF	R215-- 77692				
	TC DL	10.0 PSF	DATE	04/21/06				
	BC DL	10.0 PSF	DRW	HCSR215 06111226				
	BC LL	0.0 PSF	HC-ENG	RK/WHK				
	TOT.LD.	40.0 PSF	SEQN-	12386				
DUR.FAC.	1.25	FROM	LRB					
SPACING	24.0"	JREF-	1SWK215_Z08					



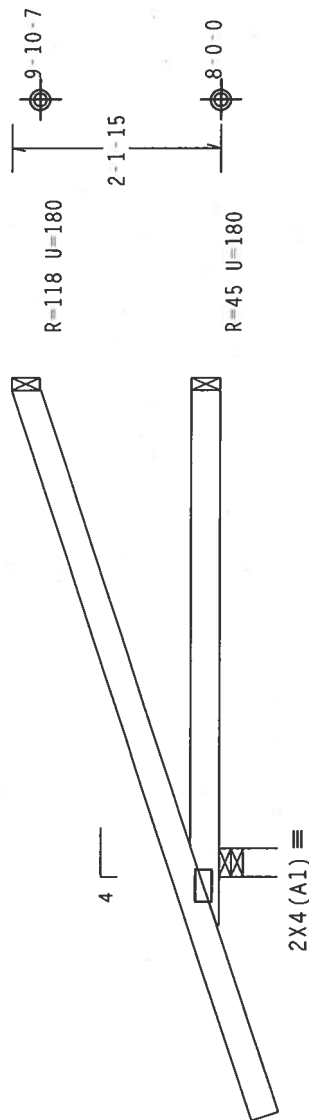
Top chord	2x4	SP	#2 N
Bot chord	2x4	SP	#2 N

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 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

The overall height of this truss excluding overhang is 2-1-15.


$$\begin{array}{c} \overleftarrow{0-6-0} \\ \overleftrightarrow{2-0-0} \end{array}$$

5-6-0 Over 3 Supports —————
R-411 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

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

QTY:2 FL1-151-1-1R1-

Scale = 5"/Ft.

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES-10 (BUILDING COMPLEXES) FOR MORE INFORMATION. ORDERED BY: F. J. CRUSS, PLATE INSTITUTE, 363 D'ONOFIO RD., SUITE 200, MADISON, WI 53715, AND WTCO, 1000 W. MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS, PLEASE OTHERS. THESE TRUSSES OTHERWISE ATTACHED TO TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING
STRUCTURES, INC., SHALL BE RESPONSIBLE FOR THE FOLLOWING DESIGN REQUEST; ANY FAILURE TO BUILD THE
DESIGN IN CONFORMANCE WITH THIS SPECIFICATION OR FABRICATING HANDLING, SHIPPING, UNLOADING AND TRIPPING
THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND TP-1
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/HX/ST) ASTM A563 GRADE 40/60 (W. K/S/S) GALV. STEEL.
PLATES TO EACH FACE OF TRUSS AND/OR UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP11 2002 SEC. 3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER SNAI/TPI 1 SEC. 2.



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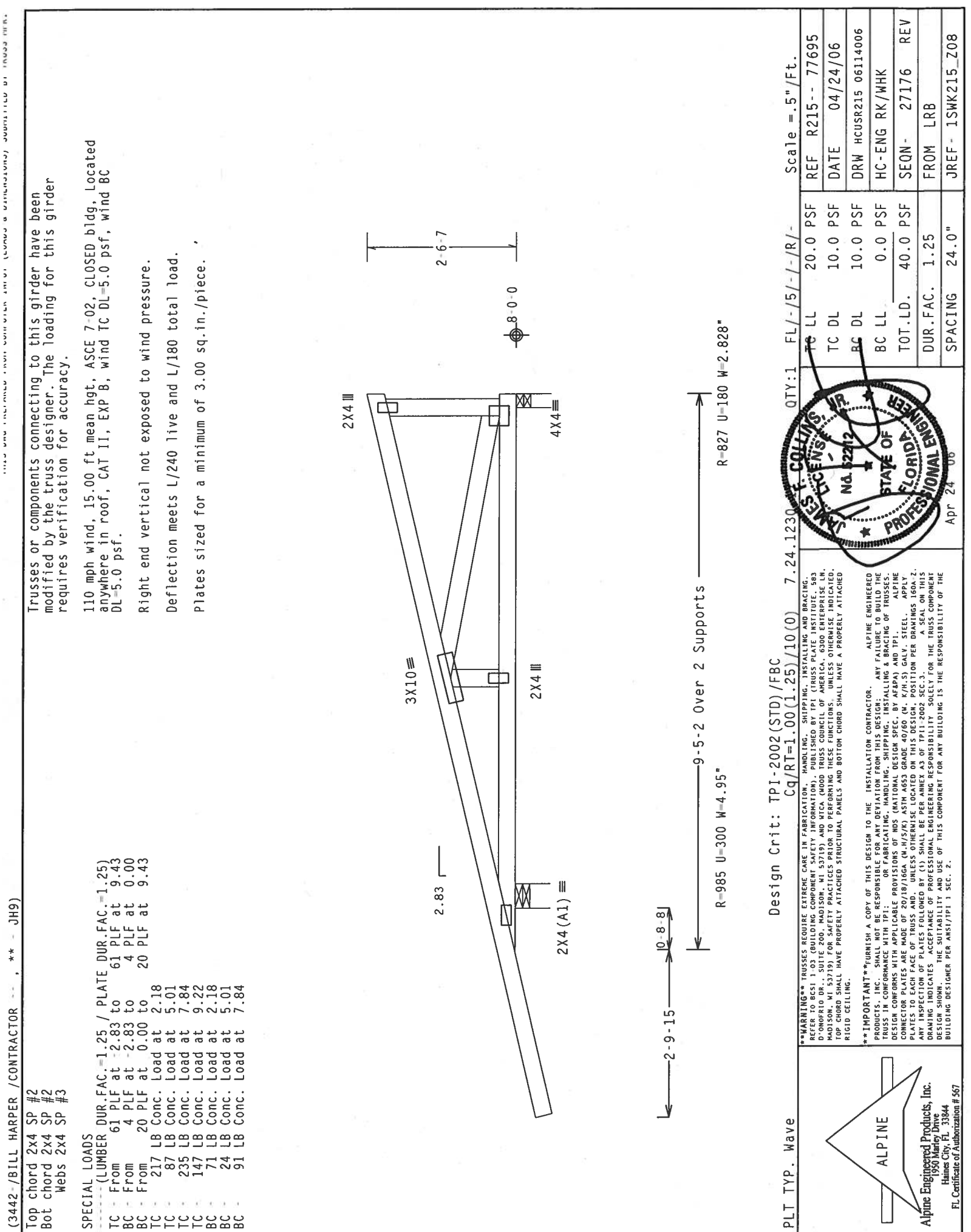


Apr 24 00

JREF- 1SWK215_Z08

APR 24 06

TC LL	20.0	PSF	REF	R215--	77694
TC DL	10.0	PSF	DATE	04/21/06	
BC DL	10.0	PSF	DRW	HCUSR215	06111228
BC LL	0.0	PSF	HC-ENG	RK/WHK	
TOT.LD.	40.0	PSF	SEQN-	12553	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1SWK215_Z08	



(3442/-BILL HARPER /CONTRACTOR -- , ** - JH9)

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

SPECIAL LOADS

- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
- TC - From 61 PLF at -2.83 to 61 PLF at 9.43
- BC - From 4 PLF at -2.83 to 4 PLF at 0.00
- BC - From 20 PLF at 0.00 to 20 PLF at 9.43
- TC - 217 LB Conc. Load at 2.18
- TC - 87 LB Conc. Load at 5.01
- TC - 235 LB Conc. Load at 7.84
- TC - 147 LB Conc. Load at 9.22
- BC - 71 LB Conc. Load at 2.18
- BC - 24 LB Conc. Load at 5.01
- BC - 91 LB Conc. Load at 7.84

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

Deflection meets L/240 live and L/180 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)

7.24.1230

QTY:1

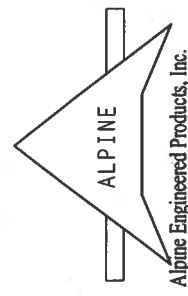
FL/-/5/-/-/R/-

Scale =.5"/Ft.

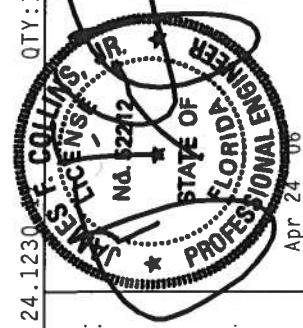
PLT TYP. Wave

****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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCTA (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 NDS) AND TPI. ALPINE APPLIES TO EACH FACE OF TRUSS AND JOISTS. OTHERS ARE RESPONSIBLE FOR THE PROPER PERMANENT SEAL ON THIS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



REF	R215--	77695
DATE	04/24/06	
DRW	HCUSR215	06114006
HC-ENG	RK/WHK	
SEQN-	27176	REV
FROM	LRB	
JREF-	1SWK215_Z08	

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

(J) hanger connection not found in inventory file for this condition. Provide connection.

Sub-fascia beam assumptions: 5-0-0 sub-fascia beam on the 0-6-0 cantilever side. 5-0-0 sub-fascia beam on the 0-6-0 cantilever side.

Hipjack supports 6-6-0 setback jacks with 0-6-0 cantilever one face; 0-6-0 cantilever opposite face.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

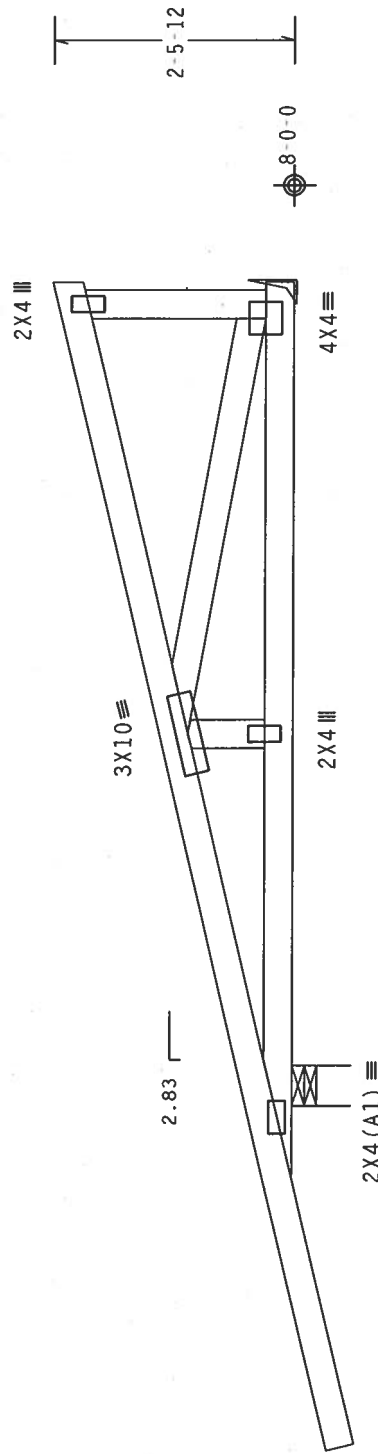
Right end vertical not exposed to wind pressure.

The following trusses need concentrated loads at the end of their overhangs: 3-0-0 span/setback member on the 0-6-0 cant side requires 48 lbs and the 3-0-0 span/setback member on the 0-6-0 cant side requires 48 lbs.

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

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

The overall height of this truss excluding overhang is $2 \cdot 5 = 12$.


$$\begin{array}{r} 2-0-15 \\ \hline 0-8-8 \end{array}$$

9-2-5 Over 2 Supports

R=506 U=180 W=4.95"

R=414 U=180 H=Simpson SUL24
w/ (4) 10d, 0.148"x1.5" nails in Truss
w/ (4) 16d, 0.162"x2.5" nails in Girder
Girder is (1)2X6 min. (H)

Design Crit: TPI-2002(STD)/FBC

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

PLT TYP. Wave

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1-107 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 NORTH ZIEGLER, BOWLING GREEN, OHIO 43403), AND AIA (WOOD HOUSE COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WISCONSIN 53719) FOR SPECIFICATIONS REGARDING THE MANUFACTURING AND PERFORMING THESE PORTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PURLINS AND BOTTOM CHORD SHALL HAVE 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 CONTRACT. ANY FAILURE TO FOLLOW THESE INSTRUCTIONS MAY BE CONSIDERED AS AN ATTEMPT TO VIOLATE THE PROFESSIONAL SEAL OF THE REGISTERED PROFESSIONAL ENGINEER.

THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI-1 (TRUSS DESIGN GUIDE, BY ALPINE ENGINEERING & PRODUCTS, INC.).

PLATES TO EACH FACE OF FLOORS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DIMENSIONS 160A, 2. ALL INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER Annex A of TPI-1 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING/DISIGNER PER ANNEX (TP1) 1 SEC USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING/DISIGNER PER ANNEX (TP1) 1 SEC.



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

FL Certificate of Authorization # S67

IC LL	20.0	PSF	REF	R215--	77696
TC DL	10.0	PSF	DATE	04/21/06	
BC DL	10.0	PSF	DRW	HCUSR215	06111229
BC LL	0.0	PSF	HC-ENG	RK/WHK	
TOT.LD.	40.0	PSF	SEQN-	12463	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1SWK215	Z08

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

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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.

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

SPECIAL LOADS

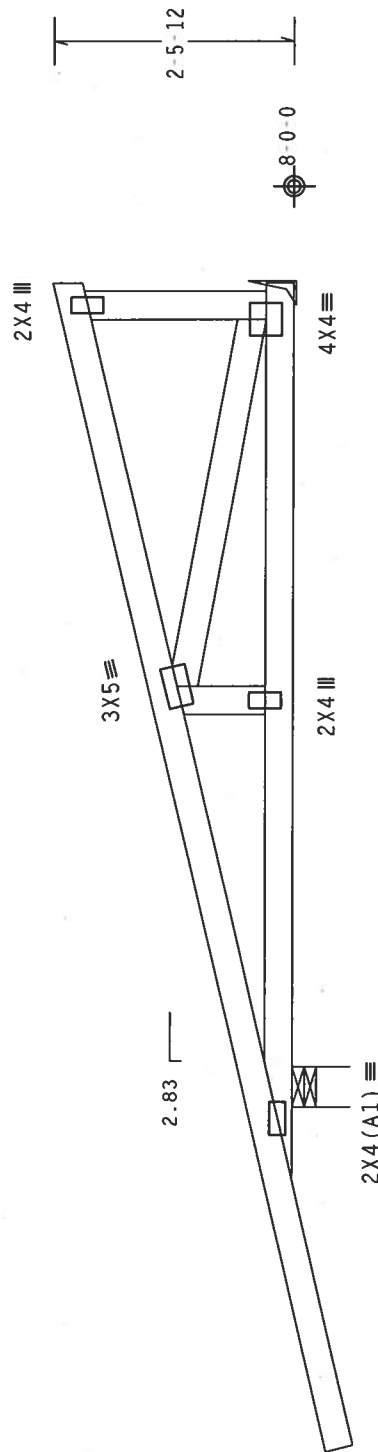
	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From	61 PLF at -2.83 to
BC - From	61 PLF at 9.19
TC - From	4 PLF at -2.83 to
BC - From	4 PLF at 0.00
TC - From	20 PLF at 0.00 to
BC - From	20 PLF at 9.19
TC - 40 LB Conc.	Load at 4.31
TC - 202 LB Conc.	Load at 7.13
BC - 4 LB Conc.	Load at 4.31
BC - 75 LB Conc.	Load at 7.13

Right end vertical not exposed to wind pressure.

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

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

The overall height of this truss excluding overhang is 2-5-12.


$$\begin{array}{r} 2 - 9 - 15 \\ \hline 10 - 8 - 8 \end{array}$$

9-2-5 Over 2 Supports

R=714 U=180 W=4.95"

R-528 U=180 H=Simpson SUL24
w/ (4) 10d, 0.148"x1.5" nails in Truss
w/ (4) 16d, 0.162"x2.5" nails in Girder
Girder is (1)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

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

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

Scale = 5"/Ft.

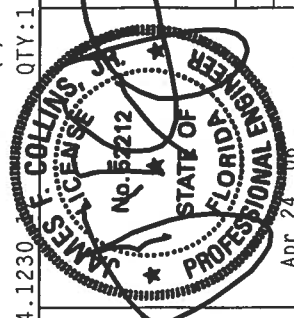
WARNING: THESE THUSSES REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESI 1103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED 1991, FOR THE BESI 383 "D" CHORD RAIL, SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA) 6300 ENTERPRISE BLVD., MADISON, 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 ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR REVIEWING AND APPROVING ANY FLUORE TO BUILD THE TRUSS DESIGN. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN, CALLING, AND BUILDING OF THE TRUSS DESIGN IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND THE ALPINE DESIGN CONFORMS WITH THE ALPINE DESIGN. THE TRUSS SHALL BE FABRICATED AND SHIPPED TO THE INSTALLATION CONTRACTOR PLATES ARE MADE OF 20/18/16GSA (M, W/2X1) ASTM A563 GRADE 40/60 (M, W/H 5) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND/UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4 OF TP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX/TP11 1 SEC. 2.



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

Haines City, FL 33844
FL Certificate of Authorization # 567



APR 24 1968

TC LL	20.0	PSF	REF R215 - 77697
TC DL	10.0	PSF	DATE 04/24/06
BC DL	10.0	PSF	DRW HCURS215 06114003
BC LL	0.0	PSF	HC-ENG RK/WHK
TOT.LD.	40.0	PSF	SEQN- 12439
DUR.FAC.	1.25		FROM LRB
SPACING	24.0"		JREF- 1SWK215 Z08

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

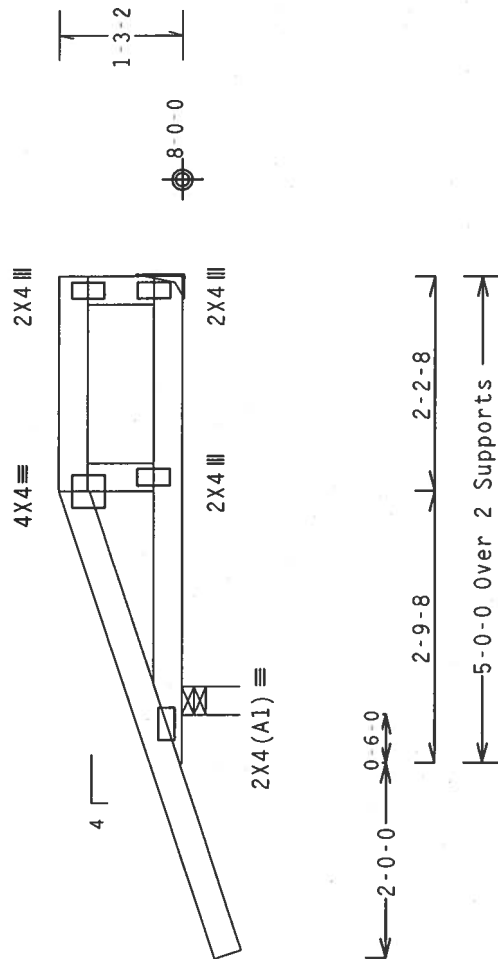
(J) hanger connection not found in inventory file for this condition. Provide connection.

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

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

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

The overall height of this truss excluding overhang is 1-3-2.



R=395 U=180 W=3.5" R=138 U=180 H=Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Design Crit. TPI-2002 (STD) / EBC Girder is (1)2X6 min. (H)

PLT TYP.: Wave

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

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REF R215 - 77698

DATE 04/21/06

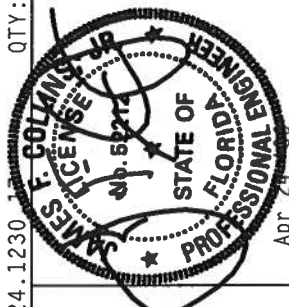
DRW HCUSR215 06111230

HC-ENG RK/WHK

SEQN-	12523
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FROM LRB

JREF- 1SWK215 Z08



Haines City, FL 33844
FL Certificate of Authorization # S67

Haines City, FL 33844
FL Certificate of Authorization # 567

Haines City, FL 33844
FL Certificate of Authorization # 567

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

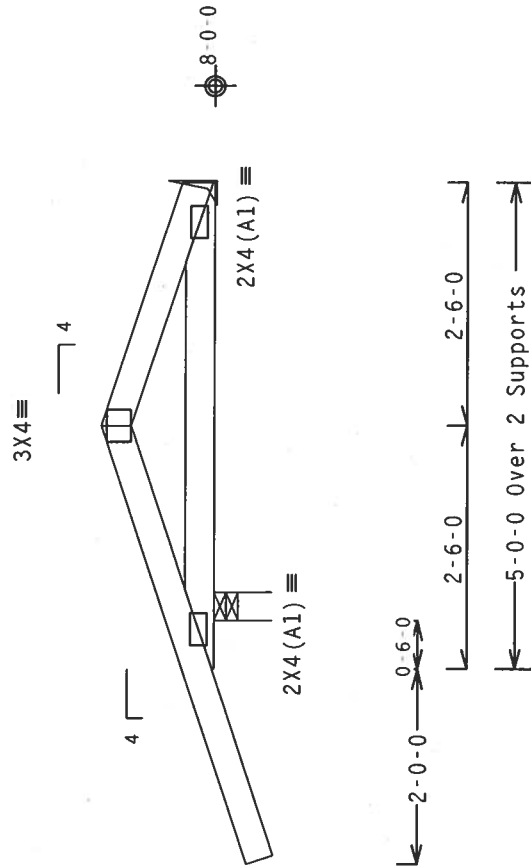
(J) hanger connection not found in inventory file for this condition. Provide connection.

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/240 live and L/180 total load.

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



R=391 U=180 W=3.5" R=142 U=180 H=Simpson 1124

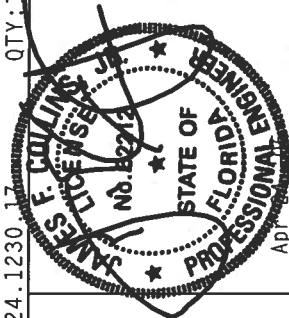
Design Crit. IPI-2002(STD) / ERCGirder is (1)2X6 min. (H)
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
w/ (2) 10d, 0.148"x1.5" nails in Truss

PLT TYP. Wave

Scale = .5"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION, AND BRACING. REFER TO BCS1-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 O'DONOFIO DR., SUITE 200, MADISON, WI 53719), AND WICA (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.

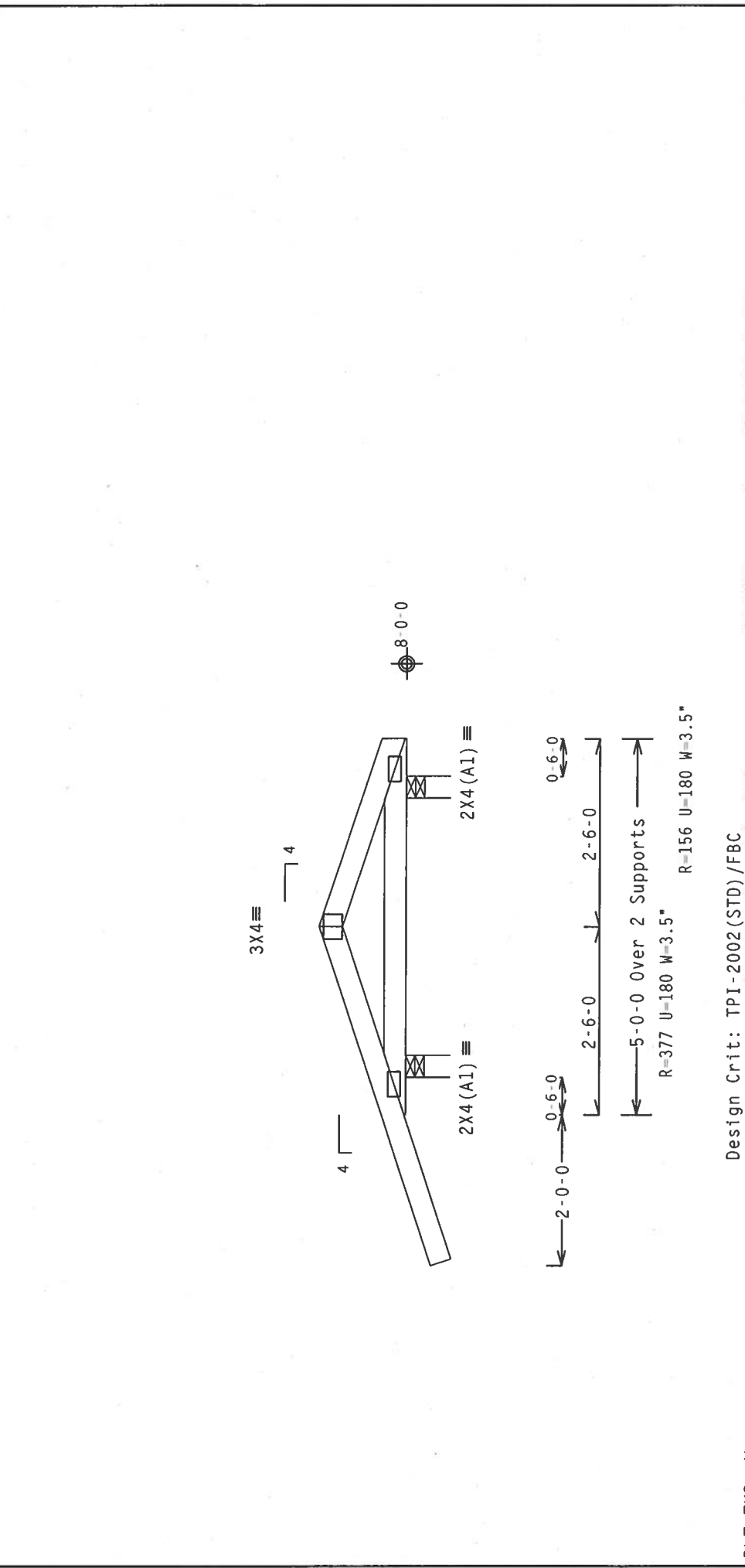
****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO TRUSSES. THE DESIGNER SHALL BE RESPONSIBLE FOR THE NATIONAL DESIGN SPEC. BY AFAPA) AND TPI: ALPINE ENGINEERED PRODUCTS, INC. PROVIDES THIS DESIGN TO THE INSTALLATION CONTRACTOR FOR THE DESIGN OF THE TRUSS. CONNECTOR PLATES ARE MADE OF 20/18/15S UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1662.2. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1662.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R215--	77699
TC DL	10.0 PSF	DATE	04/21/06	
BC DL	10.0 PSF	DRW	HCUSR215 06111231	
BC LL	0.0 PSF	HC-ENG	RK/WHK	
TOT.LD.	40.0 PSF	SEQN-	12390	
DUR.FAC.	1.25	FROM	LRB	
SPACING	24.0"	JREF-	1SWK215_Z08	

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 11-15.

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



PLT TYP. Wave

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

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

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

Scale = .5"/Ft.

REF	R215--	77700
DATE	04/21/06	
DRW	HCUSR215	06111232
HC-ENG	RK/WHK	
SEQN-	12393	
FROM	LRB	
JREF-	1SWK215_Z08	

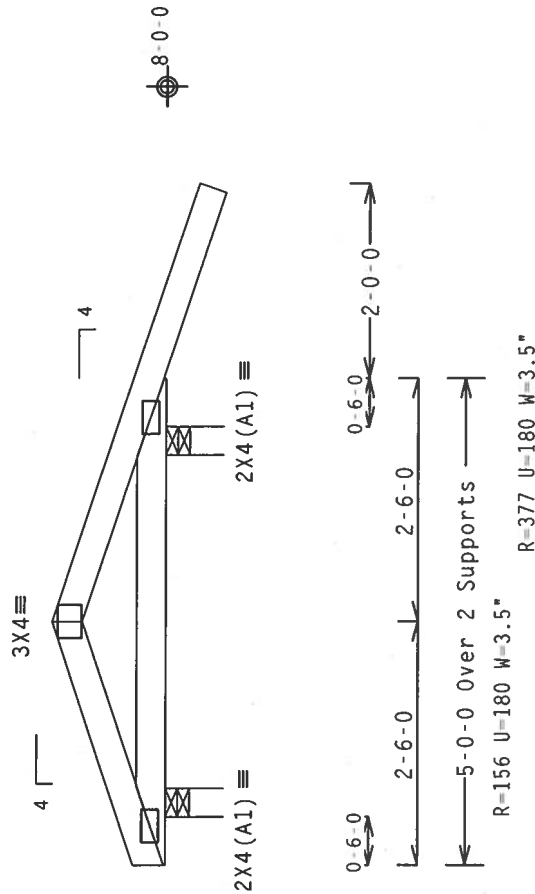
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

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

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

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

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



Design Crit: TPI-2002(STD)/FBC

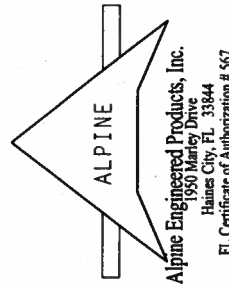
PLT TYP. Wave

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

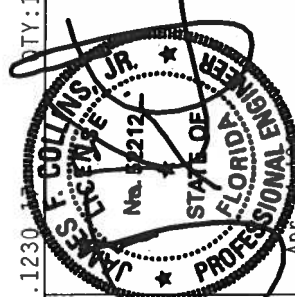
Scale = .5"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING COMPANIES SAFETY INFORMATION, PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, INC. 5835 W. 10TH AVE., SUITE 200, DENVER, CO 80202) AND THE U.S. DEPARTMENT OF COMMERCE, 6300 ENTERPRISE, L.N. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMANCE. THESE WARNINGS AND OTHERS ARE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. DESIGN CONCERNING WITH LIFTING OR FABRICATING, HANDLING, SHIPPING, INSTALLATION, AND/OR ERECTION OF PLATES TO PREPARE WITH THIS DESIGN SPEC. BY THE CONNECTOR PLATES ARE MADE OF 2018/T1626 (A) WITH 45% MIN. DESIGN SPEC. BY THE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC. 10. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY DESIGN SHOWN. THE SUBMITAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS A BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2



FL Certificate of Authorization # S67



TC LL	20.0 PSF	REF	R215 -- 77701
TC DL	10.0 PSF	DATE	04/21/06
BC DL	10.0 PSF	DRW	HCUSR215 06111233
BC LL	0.0 PSF	HC-ENG	RK/WHK
TOT.LD.	40.0 PSF	SEQN--	12369
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1SWK215 Z08

(3442-BILL HARPER /CONTRACTOR . ** - SGI)

Top chord 2x4 SP #2 N :T1 2x4 SP #2 Dense:
Bot chord 2x6 SP #5 :B2, B4 2x6 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.

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

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

The overall height of this truss excluding overhang is 10'-3"-2.

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

See DWGS A11015EE0405 & G81LETIN0405 for more requirements.

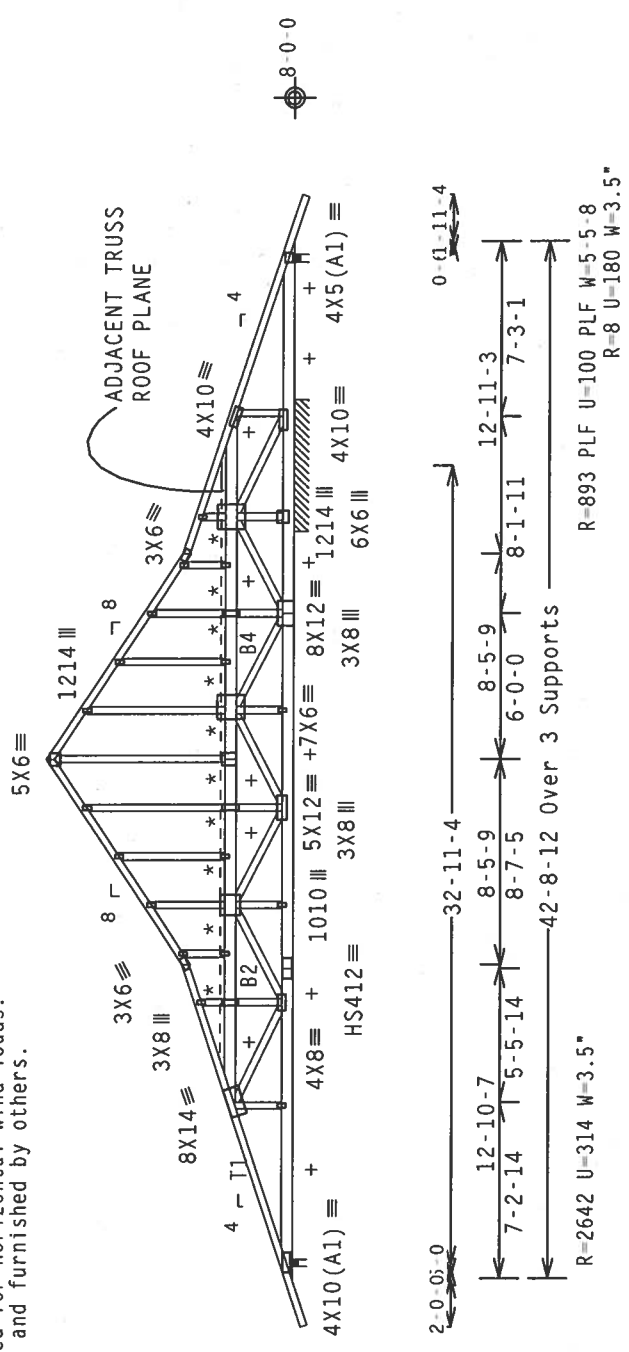
* MEMBER TO BE BRACED BY PROPERLY ATTACHED PLYWOOD SHEATHING.

+ Member to be laterally braced for horizontal wind loads.

Bracing system to be designed and furnished by others.

SPECIAL LOADS

- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
- TC - From 61 PLF at -2.00 to 61 PLF at 12.87
- TC - From 64 PLF at 12.87 to 64 PLF at 29.80
- TC - From 61 PLF at 29.80 to 61 PLF at 44.67
- BC - From 20 PLF at 0.00 to 20 PLF at 42.73
- PLT- 150 LB Conc. Load at (6.56,10.47), (8.56,11.14), (10.56,11.81), (12.56,12.47), (14.56,13.70), (16.56,15.03), (18.56,16.36), (20.56,17.70), (22.10,17.70), (24.10,16.36), (26.10,15.03), (28.10,13.70), (30.10,12.47)
- PLT- 150 LB Conc. Load at (32.10,11.81), (34.10,11.14), (36.10,10.47)
- PLB- 475 LB Conc. Load at (6.50,8.04)
- PLB- 60 LB Conc. Load at (8.56,8.04), (10.56,8.04), (12.56,8.04), (14.56,8.04), (16.56,8.04), (18.56,8.04), (20.56,8.04), (22.10,8.04), (24.10,8.04), (26.10,8.04), (28.10,8.04), (30.10,8.04)
- PLB- 60 LB Conc. Load at (32.10,8.04), (34.10,8.04), (36.10,8.04)



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Scale = 1.25"/Ft.

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

REF R215-- 77702

DATE 04/24/06

DRW HCURS215 06114004

HC-ENG RK/WHK

SEQN- 12565

FROM LRB

JREF- 1SWK215_Z08

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO 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. 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 2010/16GA (N-H/S) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY SHIPMENT. OTHERS LOCATED ON THIS DESIGN. SEE DRAWINGS 160A-Z. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

PLT TYP. 20 Gauge HS.Wave

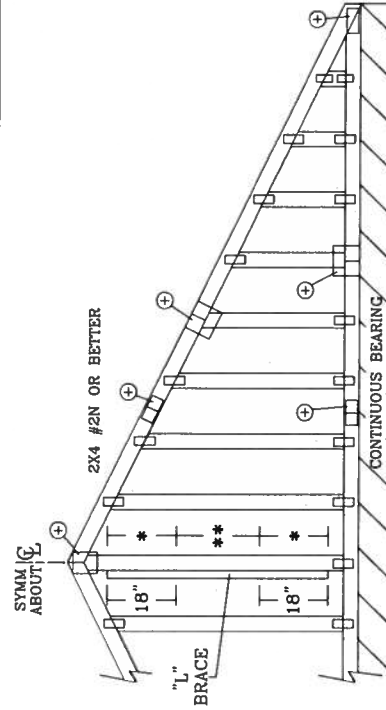
Apr 24 '06

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

DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR 840
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

VERTICAL LENGTH
IN TABLE ABOVE.

CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL.



REFER TO CHART ABOVE FOR MAX GABLE ~~VERTICAL~~ LENGTH.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING LITERATURE FOR ADDITIONAL INFORMATION. PUBLISHED BY TPI (TRUSS) PLATE INSTITUTE, 508 TINDBERG SUITE 600 MADISON, WI 53719. ADOPTED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS, 1801 L STREET N.W., WASHINGTON, D.C. 20036. ADVISORY COMMITTEE ON TRUSS DESIGN, UNIVERSITY OF ALABAMA, 6300 PRITCHETT BLVD., TUSCALOOSA, AL 35486.

1. FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR/LOCAL ENGINEER/PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. 2. BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.) (AISC) (DESIGNED BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA C/W/H/S/K ASTM A653 GRADE 40/60 C/W/H/S/G GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSSES FOLLOWED BY (G) SHALL BE IN THIS DESIGN, POSITION PER DRAWINGS 160A-2. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING DESIGN. 4. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

THIS DRAWING REPLACES DRAWING A11015E

REF ASCE-GAB11015

DATE 11/26/03

DRWG A11015EN1103

-ENG

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

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

REFER TO COMMON TRUSS DESIGN
PEAK SPLICE AND HEEL PLATES

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 135 PLF OVER
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG. 0 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.

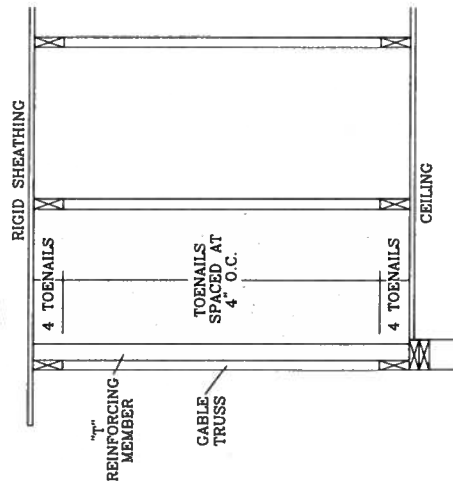
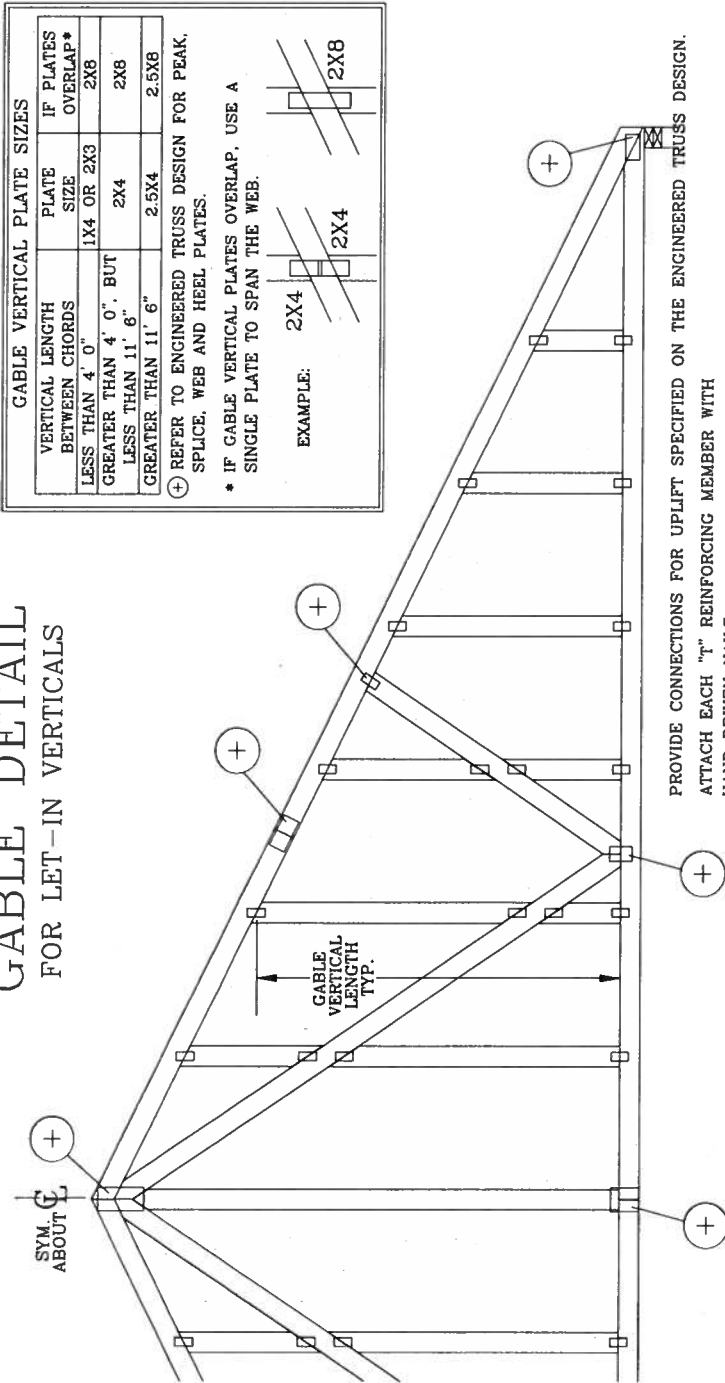
GABLE DETAIL FOR LET-IN VERTICALS

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 3.3" MIN) TOENAILS AT 4" O.C. PLUS
(4) 18d 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

A11015ENI103, A10015ENI103, A09015ENI103, A08015ENI103, A07015ENI103
A11030ENI103, A10030ENI103, A09030ENI103, A08030ENI103, A07030ENI103

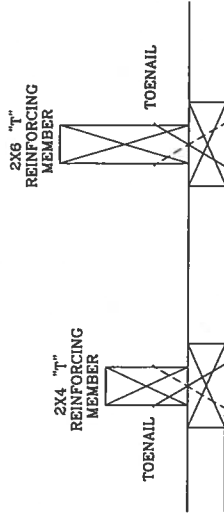
ASCE 7-98 GABLE DETAIL DRAWINGS

A13015ECI103, A12015ECI103, A11015ECI103, A10015ECI103, A08515ECI103
A13030ECI103, A12030ECI103, A11030ECI103, A10030ECI103, A08530ECI103

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.



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 %	20 %
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 %	20 %
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"

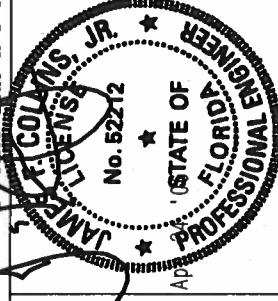
THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLETTN0405
-ENG	DLJ/KAR

MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDREID DR., SUITE 200, MADISON, VT 53719) AND WTC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, VT 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 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/X) 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 (I) SHALL BE DESIGNER'S ENGINEERING RESPONSIBILITY. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF SUITABILITY AND DESIGN RESPONSIBILITY. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

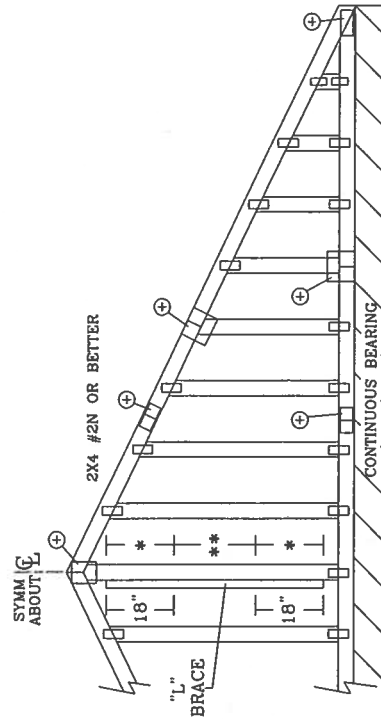


[illegible]

DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR 600'
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN
IN TABLE ABOVE.

CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL.



REFER TO CHART ABOVE FOR ~~MAX~~ ~~GABLE~~ ~~VERTICAL~~ LENGTH.

VARING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND REMOVING. REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION: AMERICAN TRUSS COUNCIL, 563 DUNDRAFF DRIVE, SUITE 200, MADISON, WY 83719; AND WOOD TRUSS COUNCIL, 503 TONDERUP DRIVE, SUITE 100, MADISON, WY 83719. FOR SAFETY PRACTICES PRIOR TO PERFORMING ANY OF THESE FUNCTIONS, TOP CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING. UNLESS OTHERWISE INDICATED, BOTTOM CHORD SHALL HAVE 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. ANY FAILURE TO FOLLOW THE BUILDING DESIGN, DESIGN CONFORMS WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR BRACING & F&P) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/18GA 2X1/8 S/S/K. ASTM A553 GRADE 40/460 6X 4X1/8 GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY THE PERMITS, DESIGN OR DRAWING, DESIGN 160A2.2. INSPECTION OF PLATES FOLLOWED BY (D) SHALL BE REQUIRED. DESIGN 160A2.3 (1) 1500. (2) 1500. (3) 1500. (4) 1500. (5) 1500. (6) 1500. (7) 1500. (8) 1500. (9) 1500. (10) 1500. (11) 1500. (12) 1500. (13) 1500. (14) 1500. (15) 1500. (16) 1500. (17) 1500. (18) 1500. (19) 1500. (20) 1500. (21) 1500. (22) 1500. (23) 1500. (24) 1500. (25) 1500. (26) 1500. (27) 1500. (28) 1500. (29) 1500. (30) 1500. (31) 1500. (32) 1500. (33) 1500. (34) 1500. (35) 1500. (36) 1500. (37) 1500. (38) 1500. (39) 1500. (40) 1500. (41) 1500. (42) 1500. (43) 1500. (44) 1500. (45) 1500. (46) 1500. (47) 1500. (48) 1500. (49) 1500. (50) 1500. (51) 1500. (52) 1500. (53) 1500. (54) 1500. (55) 1500. (56) 1500. (57) 1500. (58) 1500. (59) 1500. (60) 1500. (61) 1500. (62) 1500. (63) 1500. (64) 1500. (65) 1500. (66) 1500. (67) 1500. (68) 1500. (69) 1500. (70) 1500. (71) 1500. (72) 1500. (73) 1500. (74) 1500. (75) 1500. (76) 1500. (77) 1500. (78) 1500. (79) 1500. (80) 1500. (81) 1500. (82) 1500. (83) 1500. (84) 1500. (85) 1500. (86) 1500. (87) 1500. (88) 1500. (89) 1500. (90) 1500. (91) 1500. (92) 1500. (93) 1500. (94) 1500. (95) 1500. (96) 1500. (97) 1500. (98) 1500. (99) 1500. (100) 1500. (101) 1500. (102) 1500. (103) 1500. (104) 1500. (105) 1500. (106) 1500. (107) 1500. (108) 1500. (109) 1500. (110) 1500. (111) 1500. (112) 1500. (113) 1500. (114) 1500. (115) 1500. (116) 1500. (117) 1500. (118) 1500. (119) 1500. (120) 1500. (121) 1500. (122) 1500. (123) 1500. (124) 1500. (125) 1500. (126) 1500. (127) 1500. (128) 1500. (129) 1500. (130) 1500. (131) 1500. (132) 1500. (133) 1500. (134) 1500. (135) 1500. (136) 1500. (137) 1500. (138) 1500. (139) 1500. (140) 1500. (141) 1500. (142) 1500. (143) 1500. (144) 1500. (145) 1500. (146) 1500. (147) 1500. (148) 1500. (149) 1500. (150) 1500. (151) 1500. (152) 1500. (153) 1500. (154) 1500. (155) 1500. (156) 1500. (157) 1500. (158) 1500. (159) 1500. (160) 1500. (161) 1500. (162) 1500. (163) 1500. (164) 1500. (165) 1500. (166) 1500. (167) 1500. (168) 1500. (169) 1500. (170) 1500. (171) 1500. (172) 1500. (173) 1500. (174) 1500. (175) 1500. (176) 1500. (177) 1500. (178) 1500. (179) 1500. (180) 1500. (181) 1500. (182) 1500. (183) 1500. (184) 1500. (185) 1500. (186) 1500. (187) 1500. (188) 1500. (189) 1500. (190) 1500. (191) 1500. (192) 1500. (193) 1500. (194) 1500. (195) 1500. (196) 1500. (197) 1500. (198) 1500. (199) 1500. (200) 1500. (201) 1500. (202) 1500. (203) 1500. (204) 1500. (205) 1500. (206) 1500. (207) 1500. (208) 1500. (209) 1500. (210) 1500. (211) 1500. (212) 1500. (213) 1500. (214) 1500. (215) 1500. (216) 1500. (217) 1500. (218) 1500. (219) 1500. (220) 1500. (221) 1500. (222) 1500. (223) 1500. (224) 1500. (225) 1500. (226) 1500. (227) 1500. (228) 1500. (229) 1500. (230) 1500. (231) 1500. (232) 1500. (233) 1500. (234) 1500. (235) 1500. (236) 1500. (237) 1500. (238) 1500. (239) 1500. (240) 1500. (241) 1500. (242) 1500. (243) 1500. (244) 1500. (245) 1500. (246) 1500. (247) 1500. (248) 1500. (249) 1500. (250) 1500. (251) 1500. (252) 1500. (253) 1500. (254) 1500. (255) 1500. (256) 1500. (257) 1500. (258) 1500. (259) 1500. (260) 1500. (261) 1500. (262) 1500. (263) 1500. (264) 1500. (265) 1500. (266) 1500. (267) 1500. (268) 1500. (269) 1500. (270) 1500. (271) 1500. (272) 1500. (273) 1500. (274) 1500. (275) 1500. (276) 1500. (277) 1500. (278) 1500. (279) 1500. (280) 1500. (281) 1500. (282) 1500. (283) 1500. (284) 1500. (285) 1500. (286) 1500. (287) 1500. (288) 1500. (289) 1500. (290) 1500. (291) 1500. (292) 1500. (293) 1500. (294) 1500. (295) 1500. (296) 1500. (297) 1500. (298) 1500. (299) 1500. (300) 1500. (301) 1500. (302) 1500. (303) 1500. (304) 1500. (305) 1500. (306) 1500. (307) 1500. (308) 1500. (309) 1500. (310) 1500. (311) 1500. (312) 1500. (313) 1500. (314) 1500. (315) 1500. (316) 1500. (317) 1500. (318) 1500. (319) 1500. (320) 1500. (321) 1500. (322) 1500. (323) 1500. (324) 1500. (325) 1500. (326) 1500. (327) 1500. (328) 1500. (329) 1500. (330) 1500. (331) 1500. (332) 1500. (333) 1500. (334) 1500. (335) 1500. (336) 1500. (337) 1500. (338) 1500. (339) 1500. (340) 1500. (341) 1500. (342) 1500. (343) 1500. (344) 1500. (345) 1500. (346) 1500. (347) 1500. (348) 1500. (349) 1500. (350) 1500. (351) 1500. (352) 1500. (353) 1500. (354) 1500. (355) 1500. (356) 1500. (357) 1500. (358) 1500. (359) 1500. (360) 1500. (361)

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAMES F. COLLINS, JR." at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the text "No. 52912" on the left and "STATE OF FLORIDA" on the right, also separated by stars. The seal is stamped over a document with a date stamp "JUN 19 1964" and a signature "JAMES F. COLLINS, JR." is visible across the seal.

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

GROUP B:

HEM-FIR

#1 & BTR
#1

SOUTHERN PINE

#1
#2

DOUGLAS FIR-LARCH

#1
#2

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.

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

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

REF	ASCE7-02-CABI1015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

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

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

24674

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32855
Company Business License No. JB102476 Company Phone No. 386-755-3511
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: W. Z. Harper Const. Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 11173 S.W. 2R 240
John E. H. Fl

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside 12 Inside 24 Type of Fill Dirx

Section 4: Treatment Information

Date(s) of Treatment(s) 4-14-06
Brand Name of Product(s) Used G-Pro
EPA Registration No. 19676-1
Approximate Final Mix Solution % 0.25%
Approximate Size of Treatment Area: Sq. ft. 1606 Linear ft. 184 Linear ft. of Masonry Voids 184
Approximate Total Gallons of Solution Applied 385
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No

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

Attachments (List) _____

Comments _____

Name of Applicator(s) Steve Brannon Certification No. (if required by State law) JF104376

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

Authorized Signature Steve Brannon Date 4-14-06

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

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

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:1T0U215-Z0425061444

Truss Fabricator: W.B. Howland
Job Identification: 3442-/BILL HARPER/JENNIFER MCKE /CONTRACTOR -- , **

Truss Count: 12

Model Code: Florida Building Code 2004

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

Engineering Software: Alpine Software, Versions 7.25, 7.24.

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

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

Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: BRCLBSUB-A11015EE-GBLLETIN-



Seal Date: 09/25/2006

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	77497--	A1HG	06265104	09/22/06
2	77498--	A2	06265105	09/22/06
3	77499--	A3	06265106	09/22/06
4	77500--	A4	06265099	09/22/06
5	77501--	A5	06265100	09/22/06
6	77502--	B1GE	06265003	09/22/06
7	77503--	B2	06265001	09/22/06
8	77504--	JC1	06265101	09/22/06
9	77505--	JC3	06265103	09/22/06
10	77506--	JC5	06265098	09/22/06
11	77507--	JE6	06265002	09/22/06
12	77508--	JH8	06265102	09/22/06



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

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

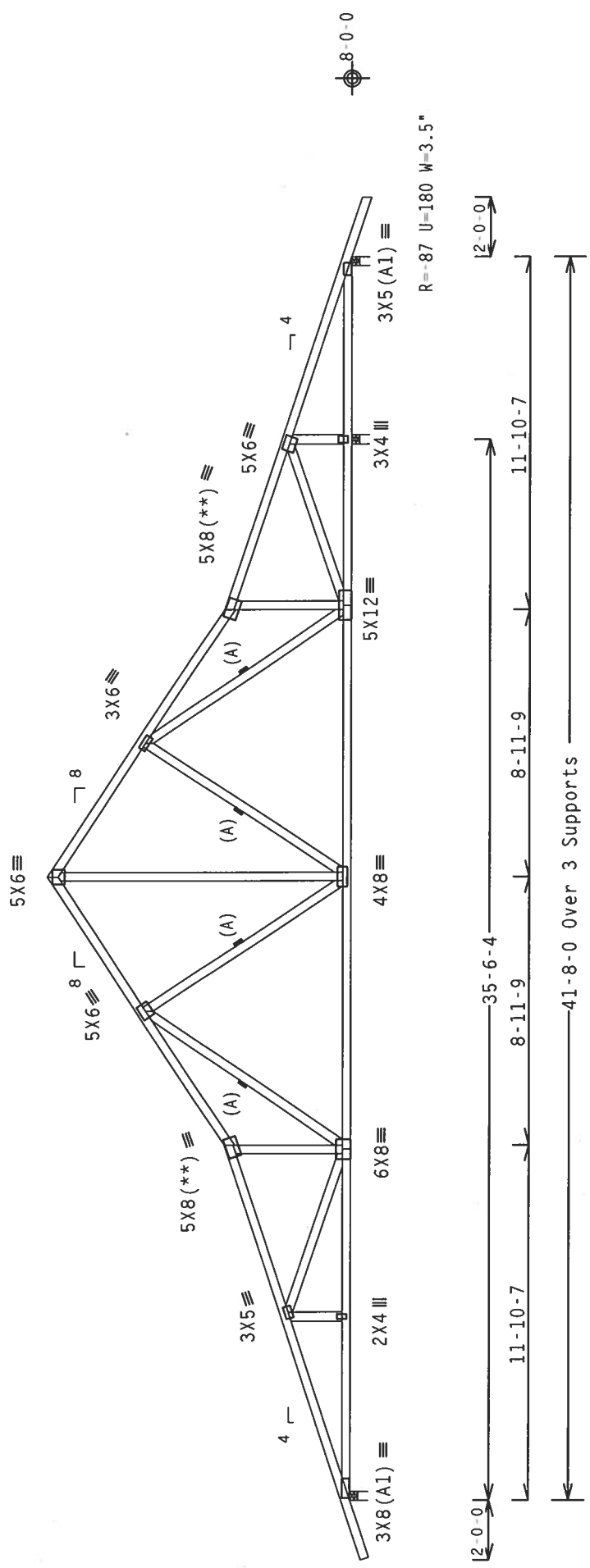
Wind reactions based on MWFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg. Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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

The overall height of this truss excluding overhang is 10-3-2.



R=1515 U=180 W=3.5"

R=2262 U=201 W=3.5"

PLT TYP. Wave



ALPINE

Alpine Engineering Products, Inc.
 1350 Marney Drive
 Haines City, FL 33844

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) **7.25.0503** **QTY:1** **FL/-5/-/-R/-** **Scale =.1875"/Ft.**

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE FOLLOWING INFORMATION IS FOR THE USER'S INFORMATION ONLY. IT IS THE USER'S RESPONSIBILITY TO OBTAIN THE LATEST EDITION OF THE TPI-2002(STD) FROM THE TPI-2002(STD) COUNCIL OF AMERICAN ENGINEERS, 1350 MARNEY DRIVE, SUITE 200, MADISON, MI 48219, AND MTCA (WOOD TRUSS COUNCIL OF AMERICAN ENGINEERS, 160A-Z, MADISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 TRUSS DESIGN SPEC. (TPI-2002(STD)). THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE LATEST EDITION OF TPI-2002(STD) PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.L.D.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF R215-- 77498

DATE 09/22/06

DRW HCUSR215 06265105

HC-ENG RA/WHK

SEQN- 142017

FROM CDM

JREF- 1T0U215_Z04



Sep 23 2006

(3442-/BILL HARPER/JENNIFER MCKE /CONTRACTOR -- ** - A3)

Top chord 2x4 SP #2 N :T1 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.13" due to live load and 0.13" due to dead load.

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

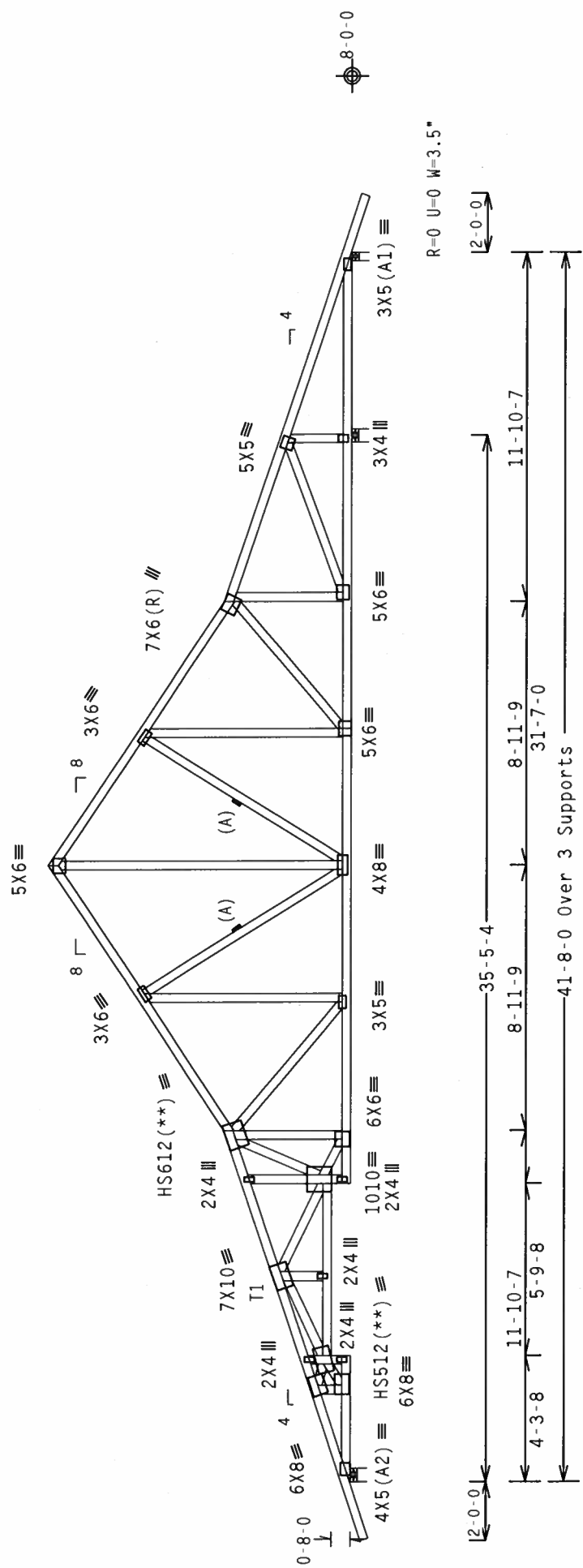
The overall height of this truss excluding overhang is 10-3-2.

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

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

(A) Continuous lateral bracing equally spaced on member.

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



R=1519 U=180 W=5.5"

R=2168 U=210 W=5.5"

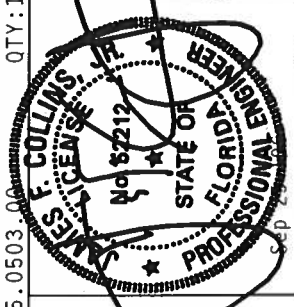
R=0 U=0 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS.Wave Cq/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:1 FL/-5/-/-R/- Scale =.1875"/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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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 AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/X) 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. DRAWING SECTION PLATES FOLLOWING ABOVE SHALL BE PER AISC 308 OF TPI 2002, SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

TC LL	20.0 PSF	REF	R215--	77499
TC DL	10.0 PSF	DATE	09/22/06	
BC DL	10.0 PSF	DRW	HCUSR215	06265106
BC LL	0.0 PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0 PSF	SEON-	135225	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1T0U215_Z04	

(3442-BILL HARPER/JENNIFFER MCKE /CONTRACTOR -- ** - A4)

Top chord 2x4 SP #2 N :T1 2x4 SP #2 Dense:

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

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.18" due to live load and 0.19" due to dead load.

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

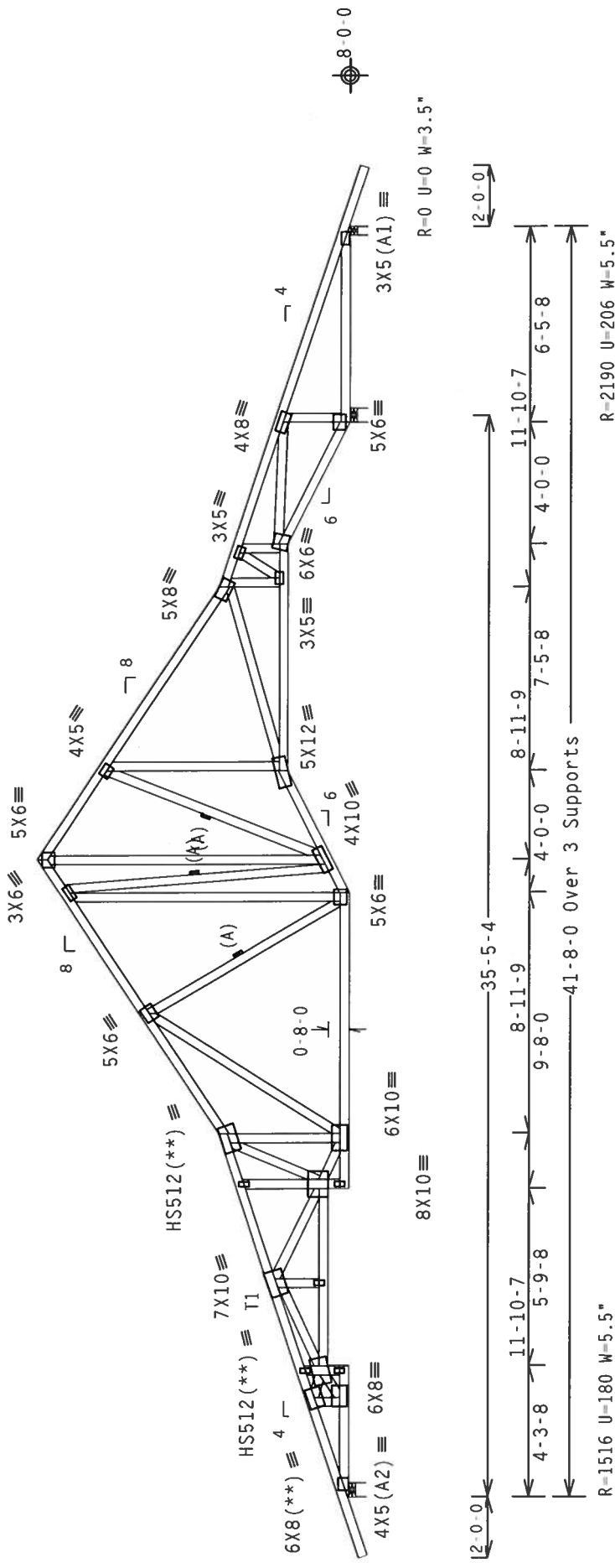
The overall height of this truss excluding overhang is 10-3-2.

(**) 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, 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.

(A) Continuous lateral bracing equally spaced on member.

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



Note: All Plates are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

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

DESIGN CRITERIA

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 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND WICA (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 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 NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE APPLIES TO EACH FACE OF TRUSS AND 187 TRUSS JOINTS. PROVIDE 2 PLATES TO EACH FACE OF TRUSS AND 2 PLATES TO EACH FACE OF TRUSS JOINTS. PERFORM PER 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.

SEP 2002

TC LL	20.0 PSF	REF	R215-- 77500
TC DL	10.0 PSF	DATE	09/22/06
BC DL	10.0 PSF	DRW	HCUSR215 06265099
BC LL	0.0 PSF	HC-ENG	RA/WHK
TOT.LD.	40.0 PSF	SEQN-	135233
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1T0U215_Z04

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.

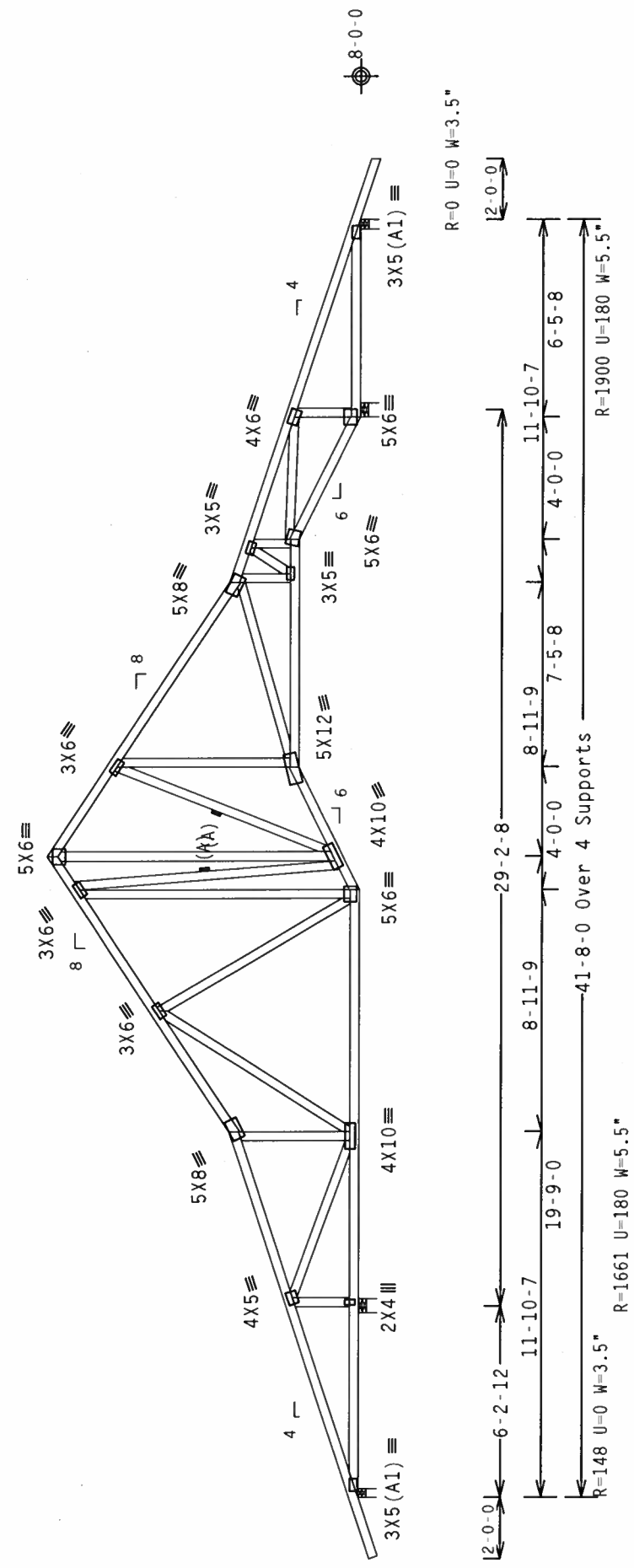
Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

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

The overall height of this truss excluding overhang is 10-3-2.



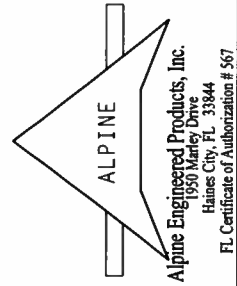
Design Crit: TPI-2002(STD)/FBC

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

PLT TYP. Wave

***WARNING:** BUNSES REQUIRE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO PCS-1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUNSEN MANUFACTURERS ASSOCIATION, SUITE 200, MADISON, WI 52719, AND NCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LN., D'ARNOUD DR., SUITE 200, MADISON, WI 52719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

****IMPORTANT****—URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING: TESTING, ERECTING, BRACING, TRUSSING IN CONFORMANCE WITH TPI-1; RESPONSIBILITY FOR THE FOLLOWING: ANY FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF THUSSES IN CONFORMANCE WITH TPI-1; RESPONSIBILITY FOR THE FOLLOWING: ANY FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF THUSSES IN CONFORMANCE WITH TPI-1; RESPONSIBILITY FOR THE FOLLOWING: ANY FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF THUSSES IN CONFORMANCE WITH TPI-1. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI-1. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA. W/H/S/K/ ASTM A653 GRADE 40/60 (M. K/H/S) GALV. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A 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 ANNEX D OF TPI-1 SEC. 2.

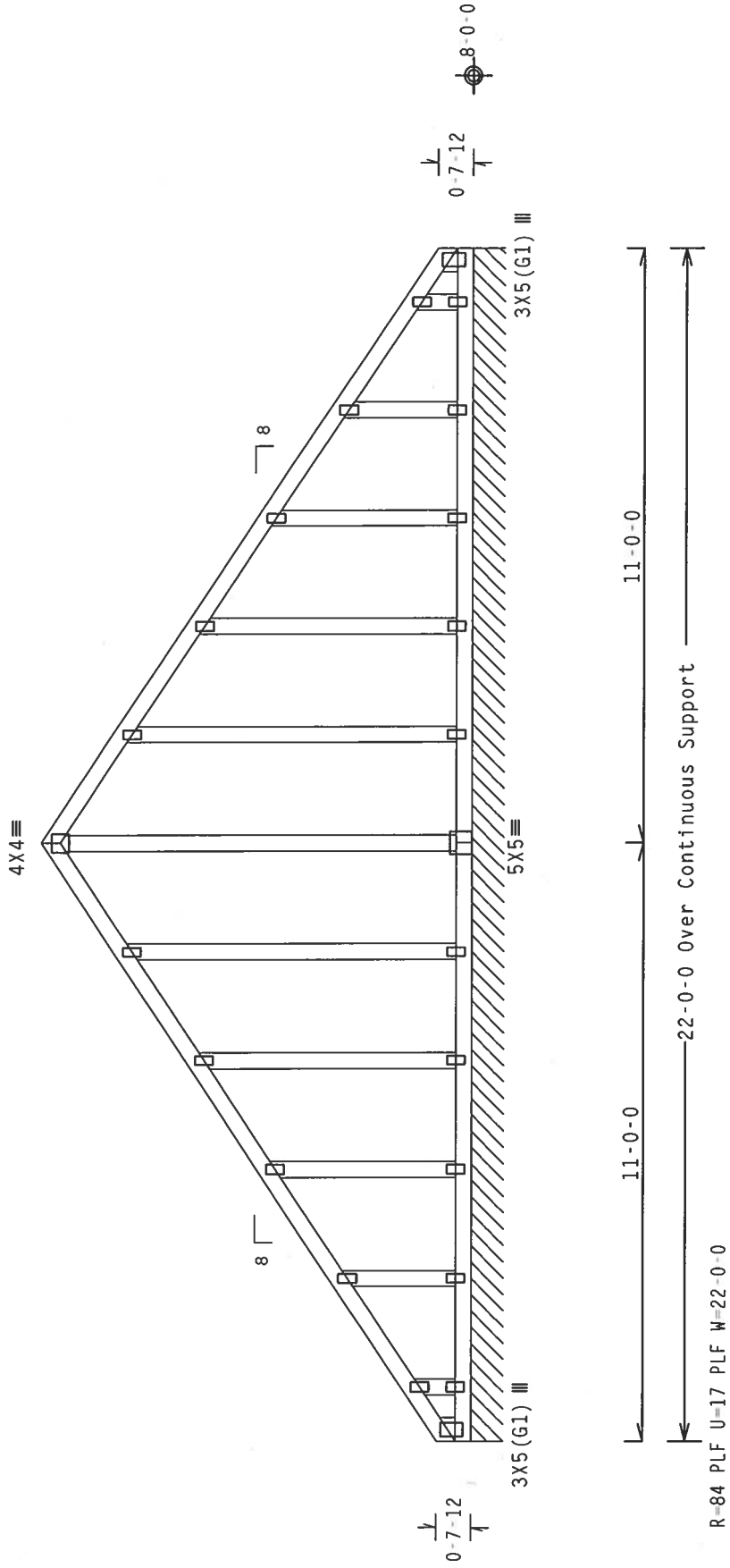


TC LL	20.0	PSF	REF	R215--	77501
TC DL	10.0	PSF	DATE	09/22/06	
BC DL	10.0	PSF	DRW	HCUSR215	06265100
BC LL	0.0	PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0	PSF	SEQN-	135239	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1T0U215_Z04	

(3442 - /BILL HARPER/JENNIFER MCKE /CONTRACTOR -- , ** - 81GE)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N
:Lt Stubbbed Wedge 2x4 SP #2 N::Rt Stubbbed Wedge 2x4 SP #2 N:
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 7-11-12.

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

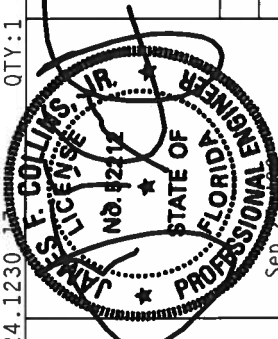
PLT TYP. Wave

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

7.24.1230

Scale = .3125" / Ft.

QTY: 1		FL / - / 5 / - / - / R / -	REF R215 - - 77502
TC LL	20.0 PSF	DATE 09/22/06	DRW HCUSR215 06265003
TC DL	10.0 PSF	HC-ENG EC/WHK	SEQN- 24974
BC DL	10.0 PSF	FROM LRB	JREF- 1T0U215_Z04
BC LL	0.0 PSF		
TOT. LD.	40.0 PSF		
DUR. FAC.	1.25		
SPACING	24.0"		



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

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

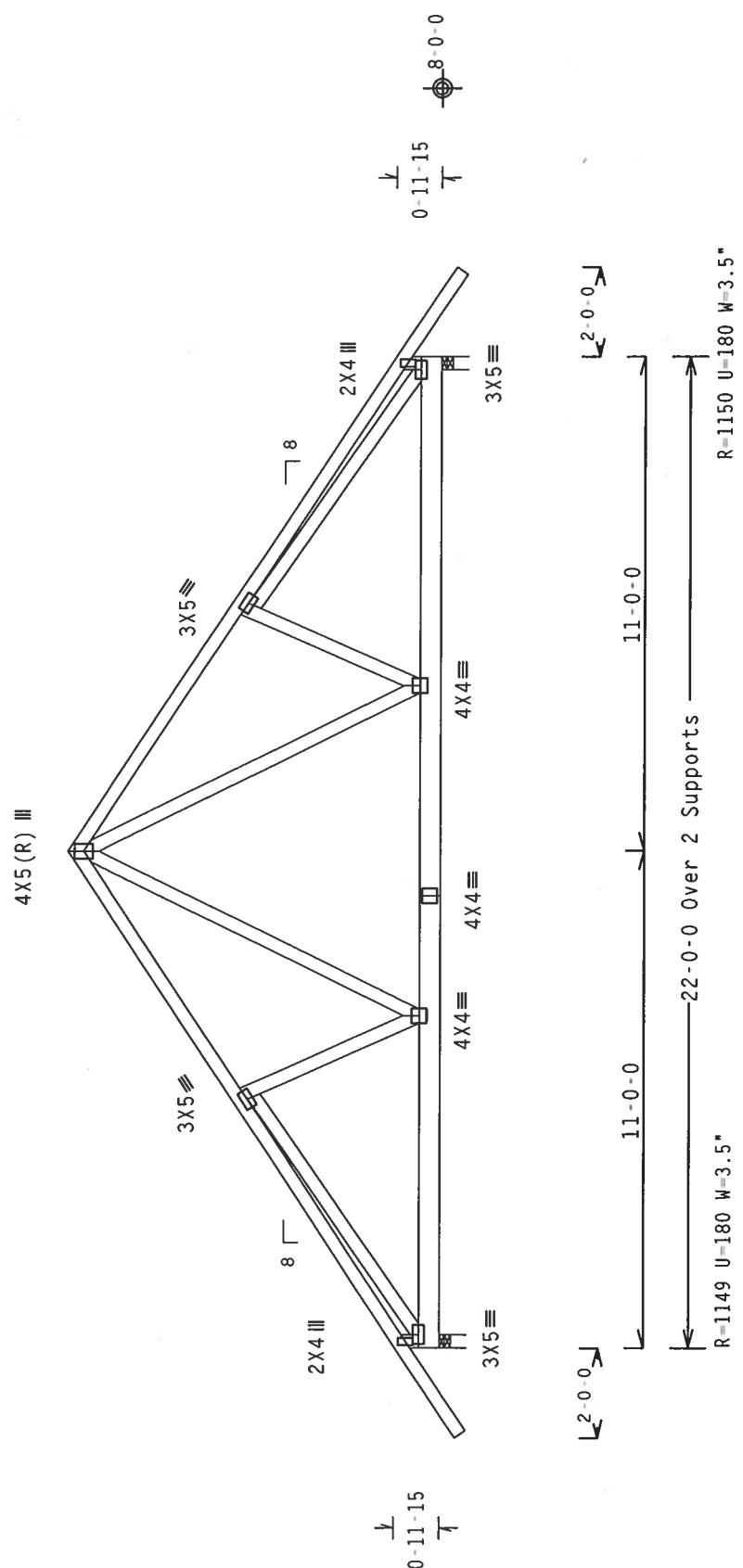
SPECIAL LOADS
----- (LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25)
TC - From 64 PLF at -2.00 to 64 PLF at 24.00
BC - From 5 PLF at -2.00 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.33
BC - From 45 PLF at 7.33 to 45 PLF at 14.67
BC - From 40 PLF at 14.67 to 20 PLF at 22.00
BC - From 5 PLF at 22.00 to 5 PLF at 24.00

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.

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

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

The overall height of this truss excluding overhang is 8'-3"-15."



PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230 17

Scale = .25" / Ft.	
REF R215-- 77503	TC LL 20.0 PSF
DATE 09/22/06	TC DL 10.0 PSF
DRW HCUSR215 06265001	BC DL 10.0 PSF
HC-ENG EC/WHK	BC LL 0.0 PSF
SEQN- 24968	TOT.LD. 40.0 PSF
FROM LRB	DUR.FAC. 1.25
JREF- 1T0U215_Z04	SPACING 24.0"

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

LES COLLINS, JR.
Professional Engineer
STATE OF FLORIDA
No. 62217
Expires 9/22/06

****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, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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. CONNECTOR PLATES ARE MADE OF 2017B16GA IN W/2X4 ASTM A575 STEEL. UNLESS OTHERWISE INDICATED, PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1004-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE 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

Wind reactions based on MMFRS pressures.

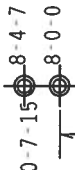
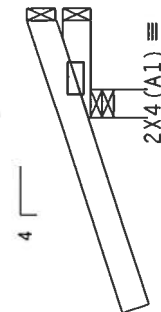
Plates sized for a minimum of 3.00 sq.in./piece.

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

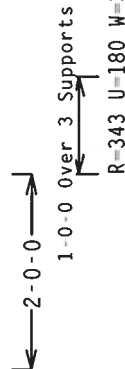
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 0-7-15.

R=-92 U=180



R=-42 U=180



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

QTY:1

Scale =.5"/Ft.

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****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE TO 2018/18GA (W. 47/5/4) ASTM A653 GRADE 40/60 (W. 47/5/4) GALV. STEEL. APPLY TO ALL TRUSSES. ANY INSPECTION OF PLATES FOLLOWED BY (13) SHALL BE PER ANNEK A3 OF TPI 2002 SEC. 3. APPLY TO 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.



REF	R215--	77504
DATE	09/22/06	
DRW	HCUSR215	06265101
HC-ENG	RA/WHK	
SEQN	25009	
FROM	LRB	
JREF	1T0U215_Z04	

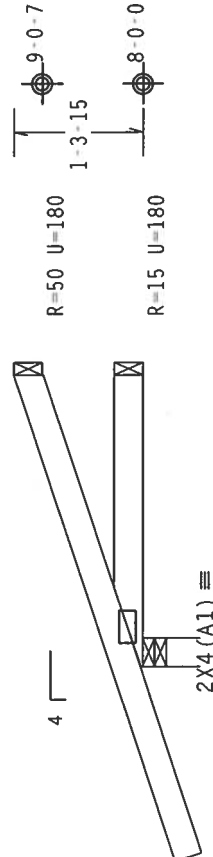
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N

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.

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

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



2.0-0
3.0-0 Over 3 Supports
R=306 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

Scale = .5"/Ft.

PLT TYP. Wave

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 BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONOFILLO DR., SUITE 200, MAISON, MI 53719) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MAISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. **IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & 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./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 (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.	JAMES F. COLLINS, P.E. FLORIDA PROFESSIONAL ENGINEER LICENSE NO. 82212 STATE OF FLORIDA Sep 23, 2008	TC LL 20.0 PSF	REF R215 - 77505
			TC DL 10.0 PSF	DATE 09/22/06
			BC DL 10.0 PSF	DRW HCUSR215 06265103
			BC LL 0.0 PSF	HC-ENG RA/WHK *
			TOT. LD. 40.0 PSF	SEQN- 25007
			DUR. FAC. 1.25	FROM LRB
			SPACING 24.0"	JREF- 1T0U215_Z04

Top	chord	2x4	SP	#2	N
30t	chord	2x4	SP	#2	N

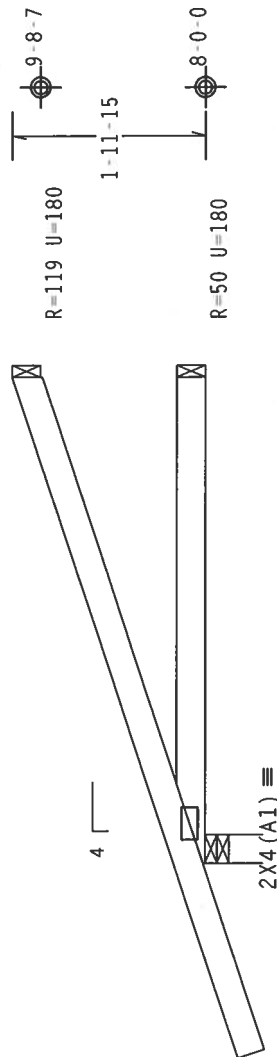
11110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

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

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

The overall height of this truss excluding overhang is 1-11-15.



2-0-0-7

5-0-0

← 5-0-0 Over 3 Supports

R=356 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

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

230

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

Designs with 100% C

PLT TYP. Wave

WARNING: THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RC51-1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUILDING CONVENTION, 100 CONVENT DRIVE, SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DRIVE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO TRUSS CONSTRUCTION, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD BRACE.

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 TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES TO THE INSTALLATION CONTRACTOR PAGES MADE 20/10/18/2018 (ALPINE DESIGN SPEC, BY ALPINE) AND STEEL ALPINE TRUSS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX TP1 1 SEC. 2.



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

FL Certificate of Authorization # S67

TC LL	20.0 PSF	REF R215-- 77506
TC DL	10.0 PSF	DATE 09/22/06
BC DL	10.0 PSF	DRW HCUSR215 06265098
BC LL	0.0 PSF	HC-ENG RA/WHK *
TOT.LD.	40.0 PSF	SEQN- 25043
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1T0U215_Z04

(3442 - /BILL HARPER/JENNIFER MCKE /CONTRACTOR -- , ** - JE6)

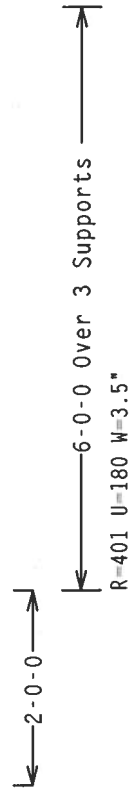
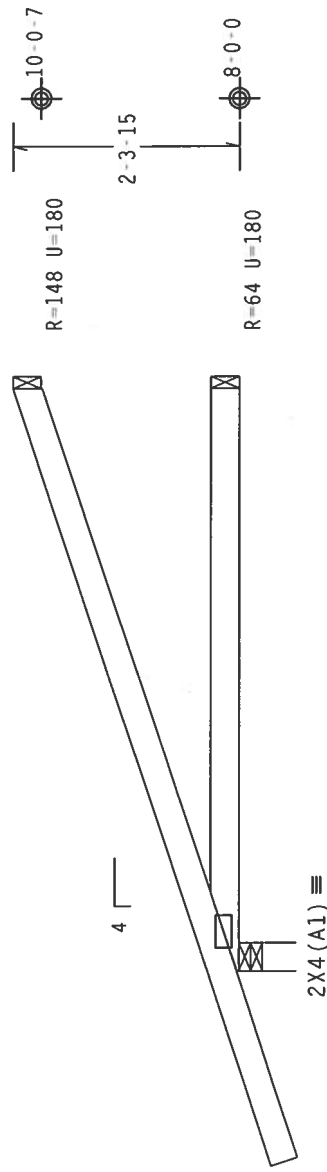
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

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

The overall height of this truss excluding overhang is 2-3-15.

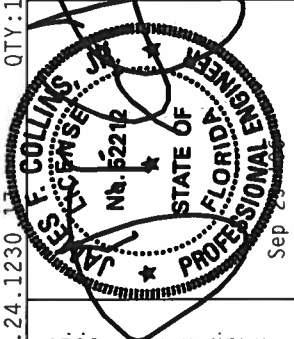
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002 (STD) /FBC

PLT TYP. Wave	QTY: 1	FL / - / 5 / - / R / -	Scale = .5" / Ft.
REF R215 - - 77507	TC LL	20.0 PSF	
DATE 09/22/06	TC DL	10.0 PSF	
DRW HCUSR215 06265002	BC DL	10.0 PSF	
HC-ENG EC/WHK	BC LL	0.0 PSF	
SEQN- 25011	TOT.LD.	40.0 PSF	
FROM LRB	DUR.FAC.	1.25	
JREF- 1T0U215_Z04	SPACING	24.0"	



****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, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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 AFAPA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/16GA (W.H/2/A) ASTM A653 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI. UNLESS THERE IS A REVISION PERMITTED BY TPI. ALPINE 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.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

(3442-BILL HARPER/JENNIFER MCKE /CONTRACTOR -- ** - JH8)

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

Wind reactions based on MWFRS pressures.

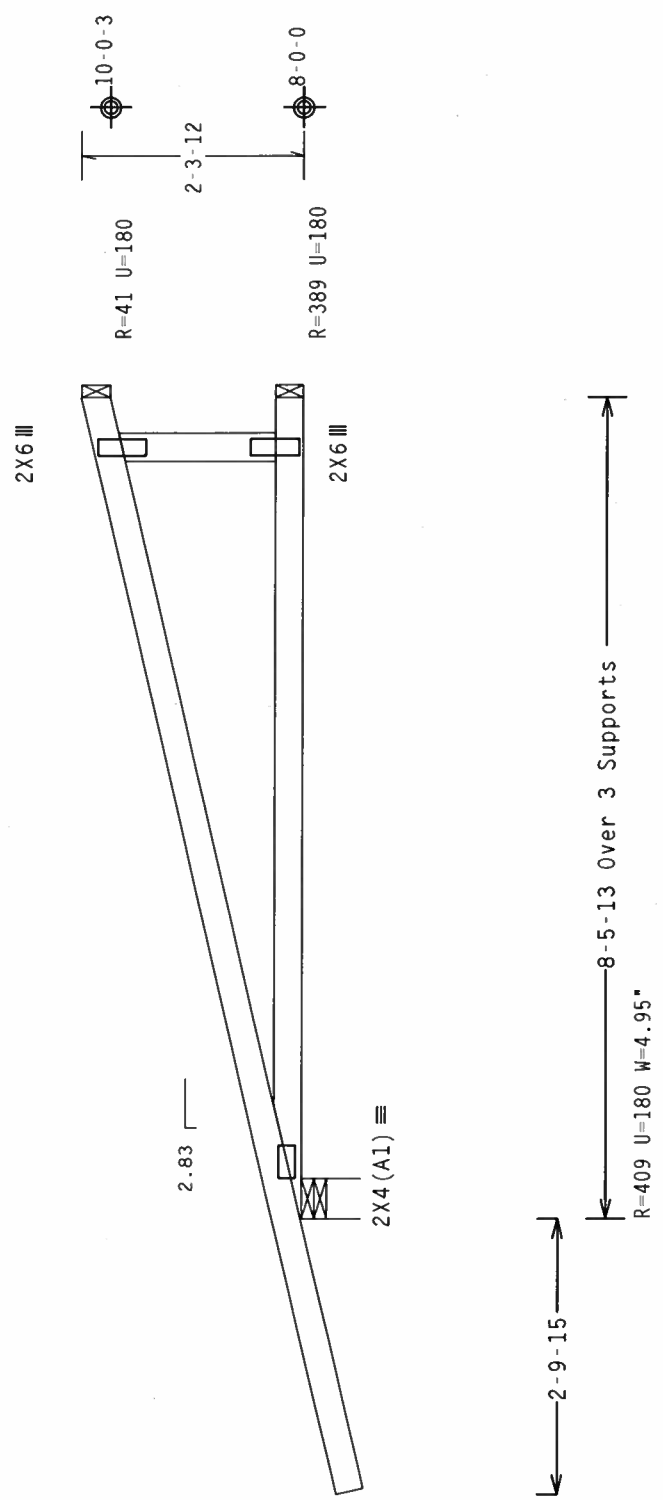
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-3-12.

Hipjack supports 6-0-0 setback jacks with no webs.

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

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)

7.24.1230

QTY:1

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

Scale =.5"/Ft.

 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, INSTALLATION AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 MADISON, MI 48131) FOR SAFETY INFORMATION. AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 110 N. MICHIGAN, CHICAGO, IL 60610) FOR SAFETY INFORMATION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. **IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W./H./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 (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.									
	TC LL		20.0 PSF		REF		R215 --		77508	
	TC DL		10.0 PSF		DATE		09/22/06			
	BC DL		10.0 PSF		DRW		HCUSR215		06265102	
	BC LL		0.0 PSF		HC-ENG		RA/WHK			
	TOT.LD.		40.0 PSF		SEQN-		118955			
DUR.FAC.		1.25		FROM		CDM				
SPACING		24.0"		JREF-		1T0U215_Z04				

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.

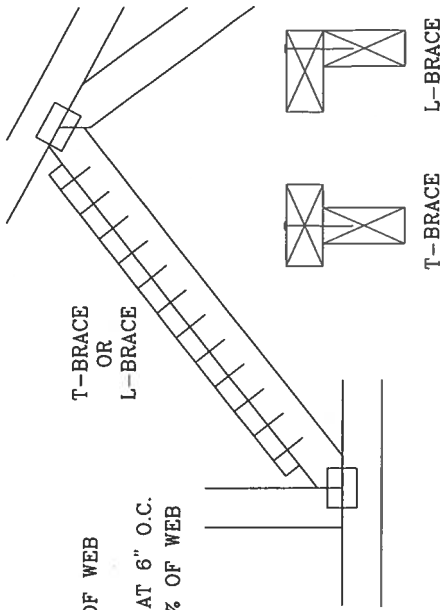
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

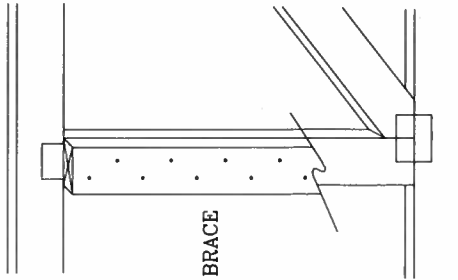
T-BRACING OR L-BRACING:

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



SCAB BRACING:

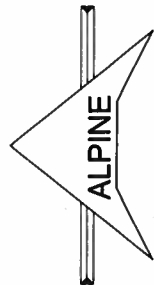
APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



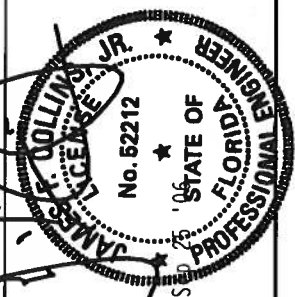
THIS DRAWING REPLACES DRAWING 579.640

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 D'ONDRE DR., SUITE 200, MADISON, WI 53719 AND WICA (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 COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO FOLLOW THIS DESIGN OR ANY OTHER DESIGN, SPECIFICATIONS, OR INSTALLATION INSTRUCTIONS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. BRACING OF TRUSSES: DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (2018) DESIGN SPEC. BY AF&P AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/S/D) ASTM A553 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-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE 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



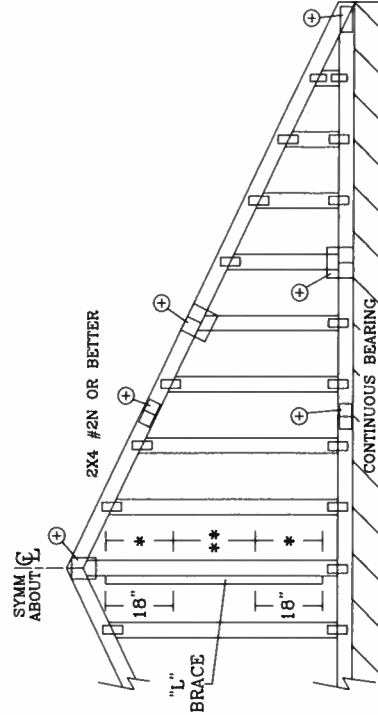
TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

2X4 GABLE VERTICAL SPACING		BRACE GRADE		NO BRACES	(1) 1X4 "L" BRACE *						(1) 2X4 "L" BRACE *						(2) 2X4 "L" BRACE **						(1) 2X6 "L" BRACE *						(2) 2X6 "L" BRACE *																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR 600,
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN
IN TABLE ABOVE.

CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL.



REFER TO CHART ABOVE FOR MAX GABIE VERTICAL 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 HEEL PLATES.

REFER TO COMMON TRUSS DESIGN
PEAK SPICE AND HEEL PLATES

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. OPLYWOOD 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) "1." 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.

BRACING GROUP SPECIES AND GRADES:

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

GROUP B:

HEM-FIR	
#1 & BTR	
#1	

SOUTHERN PINE

#1	
#2	

DOUGLAS FIR-LARCH

#1	
#2	

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY IPI (TRUSS MANUFACTURERS' INSTITUTE) 8900 WILSON AVENUE, SUITE 100, CHICAGO, IL 60630 OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO BEGINNING CONSTRUCTION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID LITTING.

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DESIGN OR CONSTRUCTION OF THE BUILDING TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING OF TRUSSES. DESIGN CONFORMS TO ALL APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASCE) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA C/H/S/K ASTM A653 GRADE, 40/60 C/H/K/H/3 GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND OTHERS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PROFESSIONAL ENGINEER 1-2008 SEC. 3, A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE DESIGN AND DESIGNER'S RESPONSIBILITY FOR THE BUILDING. THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

REF	ASCE7-02-CAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

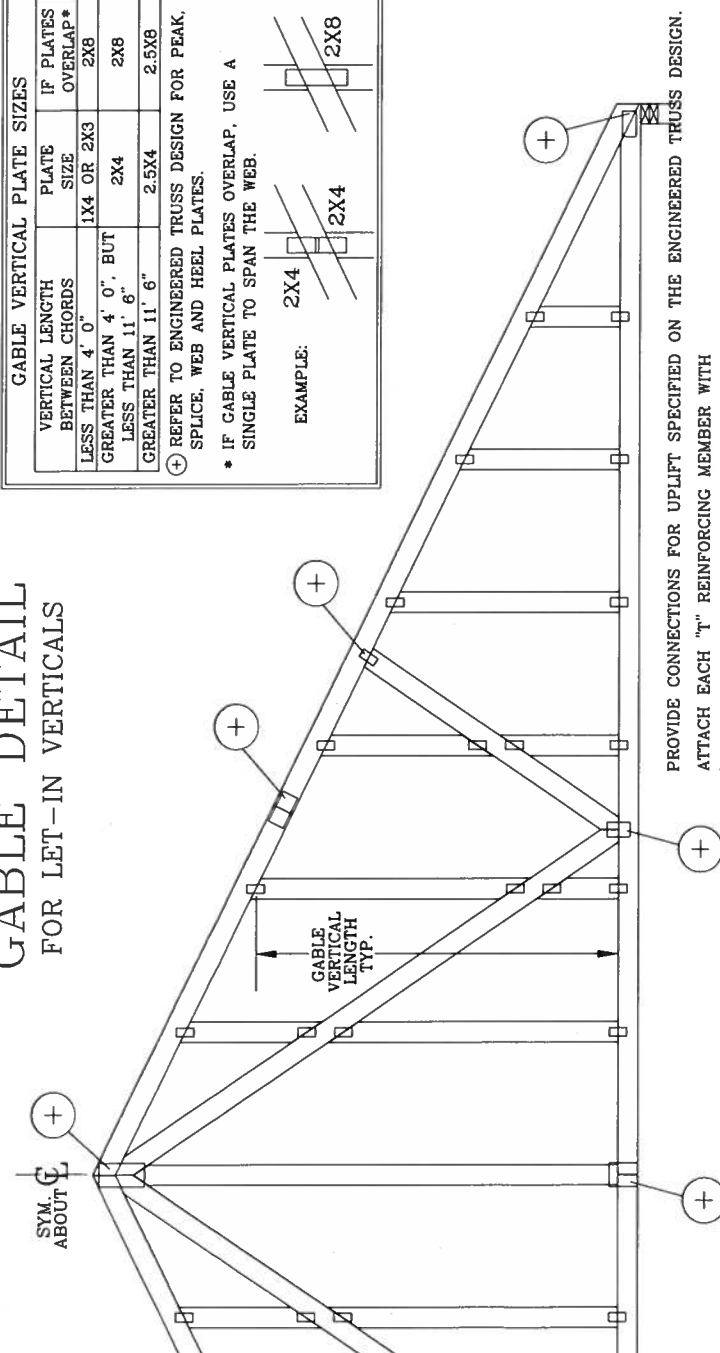
GABLE DETAIL FOR LET-IN VERTICALS

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	

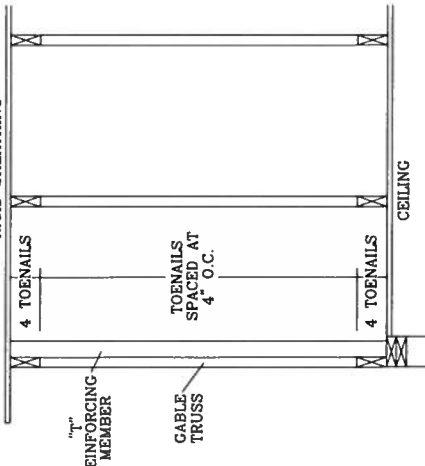
⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

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

EXAMPLE: 2X4 2X8 2X8



RIGID SHEATHING



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:

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

(4) 16d COMMON (0.182" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

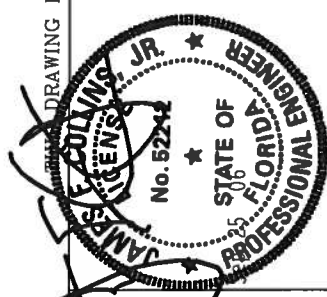
8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

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

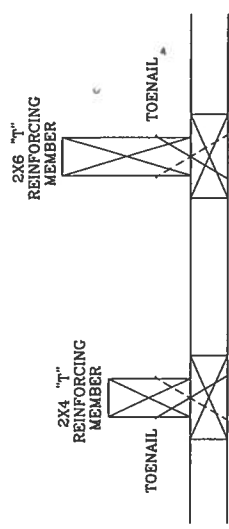
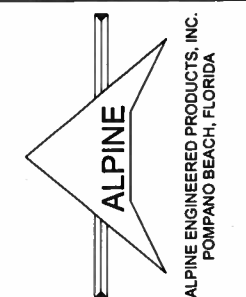
- ASCE 7-93 GABLE DETAIL DRAWINGS
- A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
 - A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
- ASCE 7-98 GABLE DETAIL DRAWINGS
- A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
 - A13030EC1103, A12030EC1103, 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.



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 BONDSTREET DR., SUITE 200, MADISON, VT 05719) AND VTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, VT 05719) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. UNLESS OTHERWISE INDICATED, TOP CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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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 "T" REINF. AND MRH	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 %	20 %
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 %	20 %
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"

DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLETTIN0405
-ENG	DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"