

DATE02/21/2006

Columbia County Building Permit

PERMIT000024158

This Permit Expires One Year From the Date of Issue

APPLICANTMACK ROBINSON

PHONE755-2492

ADDRESS24262US HWY 129

O'BRIENFL32071

OWNERGREG CASSIDY & JESSICA WILSON-CASSIDY

PHONE755-2492

ADDRESS403SW SUNDAY GLEN

LAKE CITYFL32024

CONTRACTORMACK ROBINSON

PHONE755-2492

LOCATION OF PROPERTY

47 S, R KING RD, L BISHOP, R SUNDAY GLN, ON LEFT

TYPE DEVELOPMENTSFD,UTILITY

ESTIMATED COST OF CONSTRUCTION126250.00

HEATED FLOOR AREA

TOTAL AREA

HEIGHT22.90

STORIES1

FOUNDATIONCONCRETE

WALLSFRAMED

ROOF PITCH8/12

FLOORSLAB

LAND USE & ZONINGA-3

MAX. HEIGHT35

Minimum Set Back Requirments:

STREET-FRONT30.00

REAR25.00

SIDE25.00

NO. EX.D.U.0

FLOOD ZONEXPSP

DEVELOPMENT PERMIT NO.

PARCEL ID34-4S-16-03271-009

SUBDIVISION

LOT

BLOCK

PHASE

UNIT

TOTAL ACRES10.00

RB0054287

Mack Robinson

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

PRIVATE ROAD

06-0104-N

BK

JH

Y

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: FLOOR 1 FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash

8564

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power

Foundation

Monolithic

date/app. by

date/app. by

date/app. by

Under slab rough-in plumbing

Slab

Sheathing/Nailing

date/app. by

date/app. by

date/app. by

Framing

Rough-in plumbing above slab and below wood floor

date/app. by

date/app. by

Electrical rough-in

Heat & Air Duct

Peri. beam (Lintel)

date/app. by

date/app. by

date/app. by

Permanent power

C.O. Final

Culvert

date/app. by

date/app. by

date/app. by

M/H tie downs, blocking, electricity and plumbing

Pool

date/app. by

date/app. by

Reconnection

Pump pole

Utility Pole

date/app. by

date/app. by

date/app. by

M/H Pole

Travel Trailer

Re-roof

date/app. by

date/app. by

date/app. by

BUILDING PERMIT FEE \$635.00

CERTIFICATION FEE \$0.00

SURCHARGE FEE \$0.00

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 FEE710.00

INSPECTORS OFFICE

CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR 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.

THIS INSTRUMENT WAS PREPARED BY:

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

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328
00-168

Grantee #1 S.S. No. 592-60-1039

Grantee #2 S.S. No. 594-54-5974

Property Appraiser's
Parcel Identification No.
34-4S-16-03271-000

EX 0099 161276
OFFICIAL RECORDS

00-05205

Recording Fee \$ 15.00
Documentary ~~STAMP~~ PUBLIC
RECORDS OF COLUMBIA COUNTY, FL

'00 MAR 27 PM 3:36

RECORD VERIFIED

YMK

Documentary Stamp \$ 245.00
Intangible Tax 6
P. DeWitt Cason
Clerk of Court
By YMK D.C.

WARRANTY DEED

THIS INDENTURE, made this 24th day of March, 2000, BETWEEN RANDALL R. KING and his wife, SIBYL R. KING, whose post office address is Route 15, Box 3158, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantor*, and GREGORY S. CASSADY and JESSICA M. WILSON, as Joint Tenants with Right of Survivorship, whose post office address is Route 9, Box 2160, Lake City, FL 32024, of the County of Columbia, State of Florida, grantee*.

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

SEE EXHIBIT "A" ATTACHED HERETO.

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

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

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

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

sealed and delivered
in our presence:

Terry McDavid
(First Witness)
Terry McDavid
Printed Name

DeEtte F. Brown
(Second Witness)
DeEtte F. Brown
Printed Name

BK 0899 PG 1277
Randall R. King
RANDALL R. KING (SEAL)
OFFICIAL RECORDS

Sibyl R. King
SIBYL R. KING (SEAL)

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 24th
day of March, 2000, by RANDALL R. KING and SIBYL R. KING, who are
personally known to me and who did not take an oath.

My Commission Expires:

DeEtte F. Brown
Notary Public
Printed, typed, or stamped name:



Permit Number:
Tax Folio Number: R03271-009

State of: Florida
County of: Columbia

File Number: 06-137

NOTICE OF COMMENCEMENT

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

1. Description of Property:

Description: Tract "F" A part of the North 1/2 of the Southeast 1/4 of Section 34, Township 4 South, Range 16 East more particularly described as follows: Commence at the Northeast corner of the said Southeast 1/4 and run South 89°47'53" West along the North line thereof 916.17 feet for a Point of Beginning. Thence South 8°26'28" West, 249.78 feet; thence South 70°06'49" West, 1,163.46 feet; thence North 8°08'14" East, 645.67 feet to the North line of said Southeast 1/4; thence North 89°47'53" East along said North line 1,039.36 feet to the Point of Beginning. Columbia County, Florida.

Grantor reserves a non-exclusive, perpetual easement for ingress and egress and utilities over and across the Southerly 30 feet thereof. Together with the right of ingress and egress over and across a 60 foot easement whose centerline is described as follows: Commence at the Northeast corner of the said Southeast 1/4 and run South 8°22'07" West along the West right-of-way line of Bishop Road, 237.20 feet to the centerline of said 60 foot easement for a Point of Beginning. Thence run South 89°52'57" West, along said easement centerline, 880.0 feet; thence South 70°06'49" West, 1,204.12 feet; thence South 89°50'21" West, 30 feet to the Point of Termination of said centerline of said 60 foot easement.

2. General Description of Improvements: Single Family Dwelling

3. Owner Information:

a. Name and Address: Gregory S. Cassady and Jessica M. Cassady, husband and wife,
PO Box 803, Lake City, FL 32056

b. Interest in property: Fee Simple

c. Names and address of fee simple title holder (if other than owner):

4. Contractor: Mack Robinson Construction Inst: 2006002659 Date: 02/03/2006 Time: 11:33
S. J. DC, P. DeWitt Cason, Columbia County B: 1072 P: 2572

5. Surety: N/A

6. Lender: Peoples State Bank, 350 SW Main Blvd., Lake City, Florida 32025

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1) (a)7., Florida Statutes.

8. In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified): January 27, 2007.

Gregory S. Cassady
Gregory S. Cassady

Jessica M. Cassady
Jessica M. Cassady

Sworn to and subscribed before me January 27, 2006 by Gregory S. Cassady and Jessica M. Cassady, husband and wife, who is personally known to me or who did provide drivers license as identification.

Lyndi Skinner
Notary Public

My Commission Expires: _____

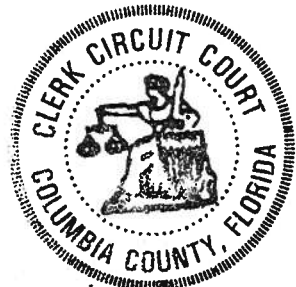


Lyndi Skinner
My Commission DD150708
Expires September 17, 2008

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 Feagles D.C.
Deputy Clerk

Date 2-03-2006



Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0602-15 Date Received 2/6 By JW/14 Permit # 24158
 Application Approved by - Zoning Official BLK Date 15-02-06 Plans Examiner OKJH Date 2-21-06
 Flood Zone X PH Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments En. Health Signed the Plan

Applicants Name Mark Robinson Phone 935-4468
 Address 24262 US Hwy 129 O'Brien FL 32071 Phone 386 755-2492
 Owners Name Green Cassidy + Jessica Wilson - Co-owners Phone
 911 Address 403 SW Sunday Hln, Lake City FL 32004
 Contractors Name Mark Robinson + Sons Const Inc Phone 755 2492
 Address 24262 US Hwy 129 O'Brien FL 32071
 Fee Simple Owner Name & Address
 Bonding Co. Name & Address
 Architect/Engineer Name & Address Dave Royal Nick Heister
 Mortgage Lenders Name & Address First Federal
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 34-48 16 03271 009 Estimated Cost of Construction 175,000.
 Subdivision Name Lot Block Unit Phase
 Driving Directions go south on 47 turn R on King Rd turn left on Bishop Ave
go to Sunday Hln turn R. job on right look for job sign
 Type of Construction Residential Number of Existing Dwellings on Property 0
 Total Acreage 10 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 X Actual Distance of Structure from Property Lines - Front 250' Side 170' Side Rear 150' + 25'
 Total Building Height 22.9' Number of Stories 1 Heated Floor Area 2525 Roof Pitch 8/12
PORCHES 749 GARAGE 672 TOTAL 3946

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

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

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 15 day of February 20 06

Personally known X or Produced Identification

Contractor Signature

Contractors License Number RB 0054287

Competency Card Number

NOTARY STAMP/SEAL



KIMBERLY A. ALBRITTON

Notary Public - State of Florida

My Commission Expires Jan 11, 2009

Commission # DD 385550

Bonded By National Notary Assn

Notary Signature

Kimberly A. Albritton

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0104N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CASSIDY/CR 05-3331

← 1039' →
Vacant
Cable easement on east side of property
Vacant
North

TBM in forked
walnut tree

Occupied

>75' to well

Site 2
Waterline
Site 1
Well
100'
Slope
Drive
115'

285' to west
property line

1163'

Occupied
>75' to well

Swale

1 inch = 50 feet

Site Plan Submitted By Paul Lepp

Date 2/2/06

Plan Approved ☒

Not Approved ☐

Date 2/13/06

By M. J. In

Columbia

CPHU

Notes:

0602-15

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: 1/20/2006 DATE ISSUED: 1/23/2006

ENHANCED 9-1-1 ADDRESS:

403 SW SUNDAY GLN

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

34-4S-16-03271-009

Remarks:

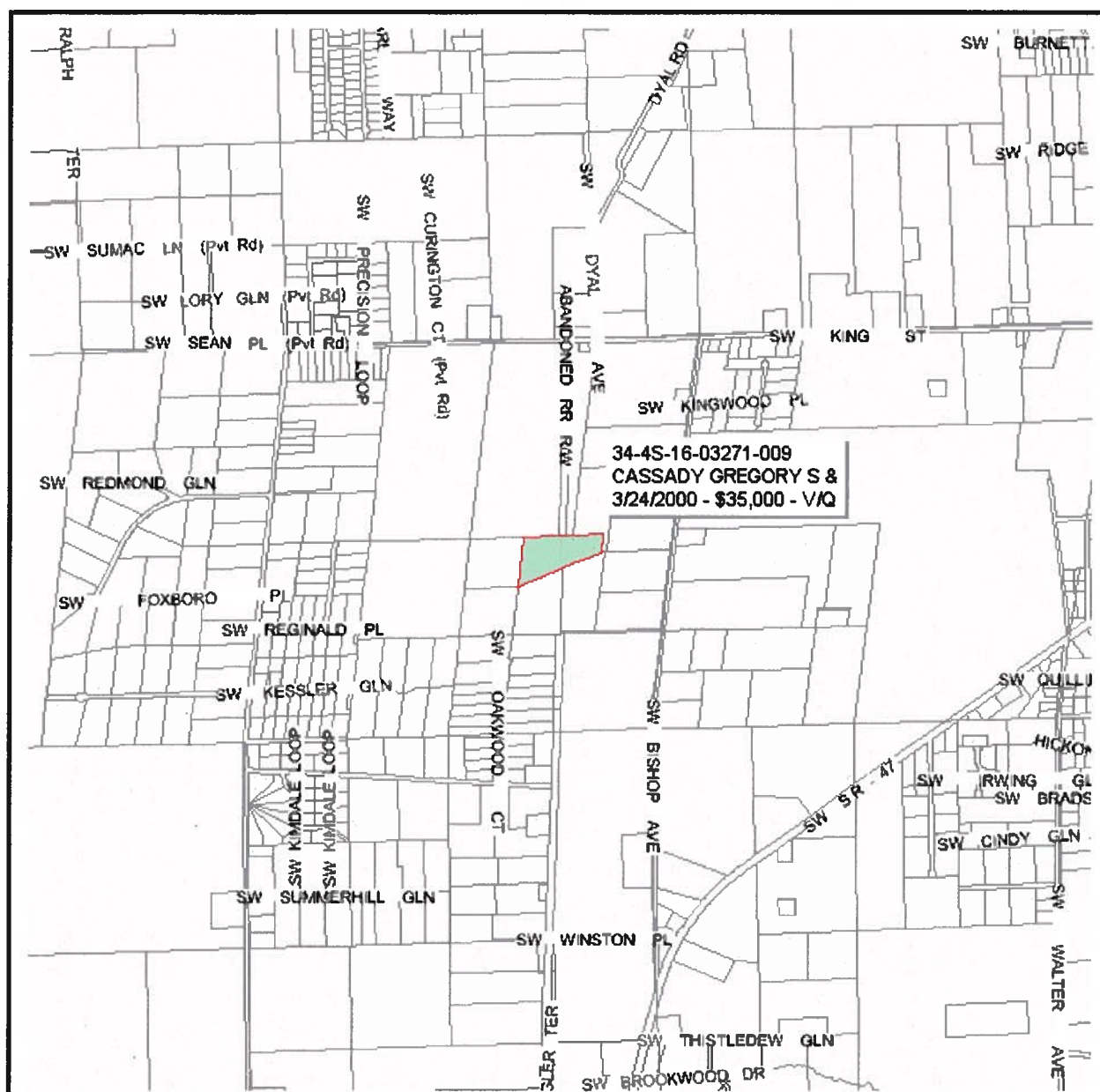
Address Issued By: 

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.

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COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED



Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 34-4S-16-03271-009 - PASTURELAN (006200)

COMM NE COR OF SE1/4, RUN W 916.17 FT FOR POB, RUN S 249.78 FT, SW 1163.46 FT, N

Name: CASSADY GREGORY S &

Site: WILSON JESSICA M (JTWRs)

Mail: P O BOX 803
LAKE CITY, FL 320560803

Sales Info: 3/24/2000 \$35,000.00 V / Q

LandVal \$0.00

BldgVal \$0.00

ApprVal \$1,795.00

JustVal \$56,010.00

Assd \$1,795.00

Exmpt \$0.00

Taxable \$1,795.00

0 0.1 0.2 0.3 mi



This information, GIS Map Updated: 8/3/2005, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

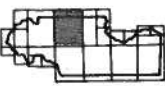
FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER

120070 0175 B

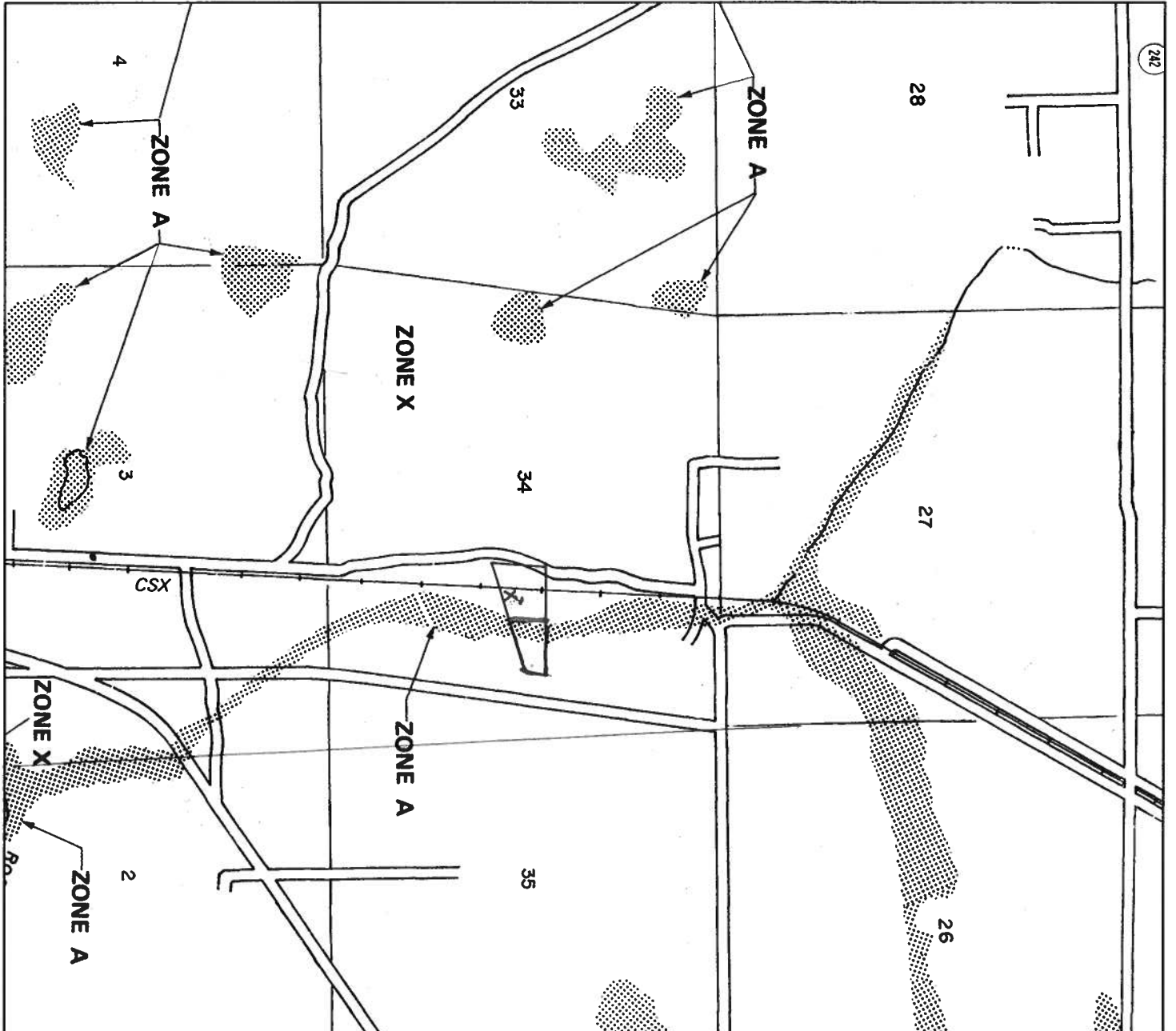
EFFECTIVE DATE:

JANUARY 6, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/nifmap.



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 88.4

The higher the score, the more efficient the home.

...

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 40.0 kBtu hr
3. Number of units, if multi-family	1	___		SEER: 13.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	2525 ft ²	___		___
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: 40.0 kBtu hr
(or Single or Double DEFAULT)	7a. (Dble Default) 81.0 ft ²	___		HSPF: 8.90
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Tint) 81.0 ft ²	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=1.0, 237.0(p) ft	___	a. Electric Resistance	Cap: 50.0 gallons
b. N/A	___	___		EF: 0.97
c. N/A	___	___	b. Electric Resistance	Cap: 30.0 gallons
9. Wall types		___		EF: 0.97
a. Frame, Wood, Exterior	R=11.0, 2370.0 ft ²	___	c. Conservation credits	___
b. N/A	___	___	(HR-Heat recovery, Solar	
c. N/A	___	___	DHP-Dedicated heat pump)	
d. N/A	___	___	15. HVAC credits	CF: ___
e. N/A	___	___	(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		___	HF-Whole house fan,	
a. Under Attic	R=30.0, 2525.0 ft ²	___	PT-Programmable Thermostat,	
b. N/A	___	___	MZ-C-Multizone cooling,	
c. N/A	___	___	MZ-H-Multizone heating)	
11. Ducts		___		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 60.0 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: FLRCSB v4.0)

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE**GLASS TYPES**.18 X Conditioned X BSP
Floor Area

.18 2525.0 20.

WALL TYPES Area XAdjacent 0.0
Exterior 2370.0**Base Total:** 2370.0**DOOR TYPES** Area XAdjacent 0.0
Exterior 120.0**Base Total:** 120.0**CEILING TYPES** Area X

Under Attic 2525.0

Base Total: 2525.0**FLOOR TYPES** Area XSlab 237.0(p)
Raised 0.0**Base Total:****INFILTRATION** Area X

2525.0

Notice of Treatment 11902**Applicator:** Florida Pest Control & Chemical Co. (www.flapest.com)**Address:** 13914 Ave**City:** LC **Phone:** 752-1703**Site Location:** Subdivision**Lot #** **Block #** **Permit #** 24158**Address:** 403 SW Sunday Gl**Product used****Active Ingredient****% Concentration**☐ Premise Imidacloprid 0.1%☐ Termidor Fipronil 0.12%☒ Bora-Care Disodium Octaborate Tetrahydrate 23.0%**Type treatment:**☐ Soil☒ Wood**Area Treated****Square feet****Linear feet****Gallons Applied**

Dwelling 3946 930 8.5

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

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

5/3/06 1215 F254 Gunny

Date

Time

Print Technician's Name

Remarks:

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 35248.7				Summer As-Built Points: 28413.0						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
35248.7	0.4266		15037.1	(sys 1: Central Unit 40000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 28413 1.00 (1.09 x 1.147 x 0.91) 0.263 0.950 8062.4 28413.0 1.00 1.138 0.263 0.950 8062.4						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

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	2525.0	12.74	5790.3	Double, Tint	N	9.3	7.0	15.0	25.37	1.02	388.8
				Double, Tint	N	9.3	7.0	9.0	25.37	1.02	233.3
				Double, Tint	S	1.3	7.0	30.0	15.87	1.04	497.6
				Double, Tint	S	9.3	7.0	60.0	15.87	3.15	2999.8
				Double, Tint	W	1.3	7.0	12.0	22.15	1.01	269.0
				Double, Tint	E	1.3	7.0	30.0	20.51	1.02	627.9
				As-Built Total:				156.0	5016.3		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	11.0		2370.0	3.70		8769.0	
Exterior	2370.0	3.70	8769.0								
Base Total: 2370.0 8769.0				As-Built Total:		2370.0		8769.0			
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	120.0	12.30	1476.0	Exterior Insulated			80.0	8.40		672.0	
Base Total: 120.0 1476.0				As-Built Total:		120.0		1008.0			
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	2525.0	2.05	5176.3	Under Attic	30.0		2525.0	2.05 X 1.00		5176.3	
Base Total: 2525.0 5176.3				As-Built Total:		2525.0		5176.3			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	237.0(p)	8.9	2109.3	Slab-On-Grade Edge Insulation	1.0		237.0(p)	15.63		3705.1	
Raised	0.0	0.00	0.0								
Base Total: 2109.3				As-Built Total:		237.0		3705.1			
INFILTRATION Area X BWPM = Points						Area X WPM		= Points			
2525.0 -0.59 -1489.7						2525.0 -0.59		-1489.7			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		21831.1		Winter As-Built Points:				22184.9		
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (1.069 x 1.169 x 0.93)	X System Multiplier 0.383	X Credit Multiplier 1.000	= Heating Points	
21831.1	0.6274	13696.9		(sys 1: Electric Heat Pump 40000 btuh , EFF(8.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0 22184.9	1.000	1.162	0.383	1.000	9878.7	
				22184.9	1.00				9878.7	

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

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Total	Volume	Bedrooms		Ratio	Multiplier
Bedrooms									
3		2635.00		7905.0	50.0	0.97	3	0.63	2499.18
					30.0	0.97	3	0.38	2499.18
					As-Built Total:				
									7497.5

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling	+	Heating	+	Hot Water	=	Total	
Points		Points		Points		Points	
15037		13697		7905		36639	
8062		9879		7498		25439	

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

Residential System Sizing Calculation

Summary

Project Title:
The Cassidy Residence

Code Only
Professional Version
Climate: North

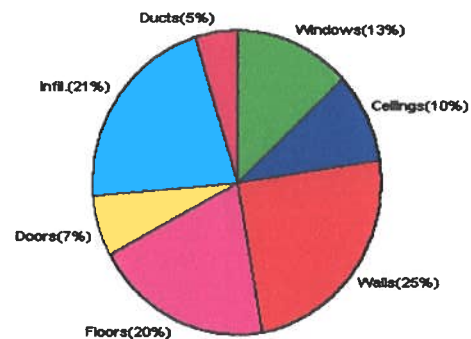
11/5/2005

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
Total heating load calculation	33791 Btuh	Total cooling load calculation	27359 Btuh
Submitted heating capacity	40000 Btuh	Submitted cooling capacity	40000 Btuh
Submitted as % of calculated	118.4 %	Submitted as % of calculated	146.2 %

WINTER CALCULATIONS

Winter Heating Load (for 2525 sqft)

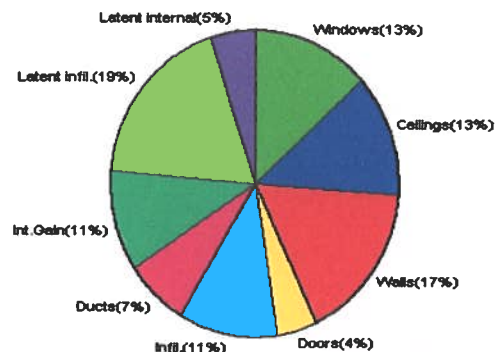
Load component		Load	
Window total	156 sqft	4415	Btuh
Wall total	2370 sqft	8295	Btuh
Door total	120 sqft	2200	Btuh
Ceiling total	2525 sqft	3283	Btuh
Floor total	237 ft	6755	Btuh
Infiltration	169 cfm	7236	Btuh
Subtotal		32182	Btuh
Duct loss		1609	Btuh
TOTAL HEAT LOSS		33791	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2525 sqft)

Load component		Load	
Window total	156 sqft	3642	Btuh
Wall total	2370 sqft	4598	Btuh
Door total	120 sqft	1217	Btuh
Ceiling total	2525 sqft	3586	Btuh
Floor total		0	Btuh
Infiltration	148 cfm	2922	Btuh
Internal gain		3000	Btuh
Subtotal(sensible)		18964	Btuh
Duct gain		1896	Btuh
Total sensible gain		20861	Btuh
Latent gain(infiltration)		5118	Btuh
Latent gain(internal)		1380	Btuh
Total latent gain		6498	Btuh
TOTAL HEAT GAIN		27359	Btuh



EnergyGauge® System Sizing based on ACCA Manual J.
PREPARED BY: _____
DATE: _____

System Sizing Calculations - Winter

Residential Load - Component Details

Project Title:
The Cassidy Residence

Code Only
Professional Version
Climate: North

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

11/5/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Tint, Metal, DEF	N	15.0	28.3	424 Btuh
2	2, Tint, Metal, DEF	N	9.0	28.3	255 Btuh
3	2, Tint, Metal, DEF	S	30.0	28.3	849 Btuh
4	2, Tint, Metal, DEF	S	60.0	28.3	1698 Btuh
5	2, Tint, Metal, DEF	W	12.0	28.3	340 Btuh
6	2, Tint, Metal, DEF	E	30.0	28.3	849 Btuh
Window Total			156		4415 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	11.0	2370	3.5	8295 Btuh
Wall Total			2370		8295 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		40	18.3	733 Btuh
2	Insulated - Exter		80	18.3	1466 Btuh
Door Total			120		2200Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2525	1.3	3282 Btuh
Ceiling Total			2525		3283Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	1	237.0 ft(p)	28.5	6755 Btuh
Floor Total			237		6755 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	25250(sqft)	169	7236 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				169	7236 Btuh

Totals for Heating	Subtotal	32182 Btuh
	Duct Loss(using duct multiplier of 0.05)	1609 Btuh
	Total Btuh Loss	33791 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)

System Sizing Calculations - Summer

Residential Load - Component Details

Project Title:
The Cassidy Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F

11/5/2005

Window	Type	Overhang		Window Area(sqft)			HTM		Load					
	Panes/SHGC/U/InSh/ExSh/Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded						
1	2, Tint, DEF, N, N	N	9.33	7	15.0	0.0	15.0	15	15	225	Btuh			
2	2, Tint, DEF, N, N	N	9.33	7	9.0	0.0	9.0	15	15	135	Btuh			
3	2, Tint, DEF, N, N	S	1.33	7	30.0	30.0	0.0	15	24	450	Btuh			
4	2, Tint, DEF, N, N	S	9.33	7	60.0	60.0	0.0	15	24	900	Btuh			
5	2, Tint, DEF, N, N	W	1.33	7	12.0	0.0	12.0	15	46	552	Btuh			
6	2, Tint, DEF, N, N	E	1.33	7	30.0	0.0	30.0	15	46	1380	Btuh			
Window Total					156					3642	Btuh			
Walls	Type	R-Value			Area			HTM		Load				
	1	Frame - Exterior			11.0			2370.0			1.9		4598	Btuh
	Wall Total				2370.0					4598		Btuh		
Doors	Type				Area			HTM		Load				
	1	Insulated - Exter			40.0			10.1		406		Btuh		
	2	Insulated - Exter			80.0			10.1		811		Btuh		
	Door Total				120.0					1217		Btuh		
Ceilings	Type/Color	R-Value			Area			HTM		Load				
	1	Under Attic/Dark			30.0			2525.0			1.4		3586	Btuh
	Ceiling Total				2525.0					3586		Btuh		
Floors	Type	R-Value			Size			HTM		Load				
	1	Slab-On-Grade Edge Insulation			1.0			237.0 ft(p)			0.0		0	Btuh
	Floor Total				237.0					0		Btuh		
Infiltration	Type	ACH			Volume			CFM=		Load				
	Natural	0.35			25250			147.6		2922		Btuh		
	Mechanical							0		0		Btuh		
	Infiltration Total							148		2922		Btuh		

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 300 +	1200	3000 Btuh

Totals for Cooling	Subtotal	18964 Btuh
	Duct gain(using duct multiplier of 0.10)	1896 Btuh
	Total sensible gain	20861 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	5118 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
TOTAL GAIN		27359 Btuh

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

Florida Department of Community Affairs
Residential Whole Building Performance Method A

1. New construction or existing	New	___	12. Cooling systems		
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 40.0 kBtu hr	___
3. Number of units, if multi-family	1	___		SEER: 13.00	___
4. Number of Bedrooms	3	___	b. N A		___
5. Is this a worst case?	Yes	___			___
6. Conditioned floor area (ft ²)	2525 ft ²	___	c. N A		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___			___
a. U-factor:	Description Area	___	13. Heating systems		
(or Single or Double DEFAULT)	7a. (Dble Default) 81.0 ft ²	___	a. Electric Heat Pump	Cap: 40.0 kBtu hr	___
b. SHGC:		___		HSPF: 8.90	___
(or Clear or Tint DEFAULT)	7b. (Tint) 81.0 ft ²	___	b. N A		___
8. Floor types		___			___
a. Slab-On-Grade Edge Insulation	R=1.0, 237.0(p) ft	___	c. N A		___
b. N A		___			___
c. N A		___	14. Hot water systems		
9. Wall types		___	a. Electric Resistance	Cap: 50.0 gallons	___
a. Frame, Wood, Exterior	R=11.0, 2370.0 ft ²	___		EF: 0.97	___
b. N A		___	b. Electric Resistance	Cap: 30.0 gallons	___
c. N A		___		EF: 0.97	___
d. N A		___	c. Conservation credits		___
e. N A		___	(HR-Heat recovery, Solar		
10. Ceiling types		___	DHP-Dedicated heat pump)		
a. Under Attic	R=30.0, 2525.0 ft ²	___	15. HVAC credits	CF.	___
b. N A		___	(CF-Ceiling fan, CV-Cross ventilation,		
c. N A		___	HF-Whole house fan,		
11. Ducts		___	PT-Programmable Thermostat,		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 60.0 ft	___	MZ-C-Multizone cooling,		
b. N A		___	MZ-H-Multizone heating)		

PASS

The Seal of the State of Florida is a circular emblem. It features a central scene with a palm tree on the left, a sun with rays in the background, and a person standing on a path. The words "GREAT SEAL OF THE STATE OF FLORIDA" are inscribed around the top inner edge, and "IN GOD WE TRUST" is at the bottom. Two small stars separate the top and bottom text.

From: The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

0602-15

Reference to: Build permit application Number:

Mack Robinson Owner Gregory Cassady 403 SW Sunday Gln.

On the date of February 13, 2006 application 0602-15 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

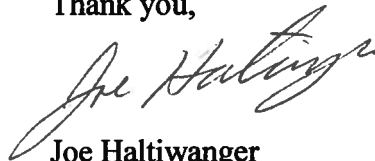
Please include application number 0602-15 when making reference to this application.

~~1~~ Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system. *REPID 2-14-06*

2. Application 0602-15 which was filed with the building department on the date of February 6, 2006 and will be reviewed under the Florida Building Code 2004. The Wind Load design by Mr. Nicholas Geisler was design under the Florida Building Code 2001. The wind Load design should reflect the code sections of the Florida Building Code 2004 that relate to wind Load design code requirements.

3. Please have Mr. Nicholas Geisler supply the following information, show all required connectors with uplift rating for the truss system and required number and size of fasteners for continuous tie from the roof to foundation. These connection points shall be designed by an architect or engineer using the engineered roof truss plans.

Thank you,

A handwritten signature in black ink, appearing to read "Joe Haltiwanger", written in a cursive style.

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Alpine Engineered Products, Inc.

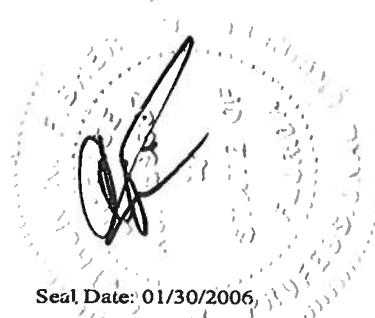
1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: ISU8487-Z0130140303

Truss Fabricator: Anderson Truss Company
Job Identification: 6-040-MACK ROBINSON - CASSIDY
Truss Count: 28
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.22.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

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



Seal Date: 01/30/2006

-Truss Design Engineer-

Arthur R. Fisher

Florida License Number: 59687

1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	73874--A1-GE		06030001	01/30/06
2	73875--A2		06030002	01/30/06
3	73876--A3		06030003	01/30/06
4	73877--A4		06030004	01/30/06
5	73878--A5		06030005	01/30/06
6	73879--A6		06030006	01/30/06
7	73880--A7		06030007	01/30/06
8	73881--A8		06030008	01/30/06
9	73882--A9		06030009	01/30/06
10	73883--A10-GE		06030010	01/30/06
11	73884--B1-GE		06030011	01/30/06
12	73885--B2		06030012	01/30/06
13	73886--B3-GE		06030013	01/30/06
14	73887--C1G		06030014	01/30/06
15	73888--C2		06030015	01/30/06
16	73889--D1-GE		06030016	01/30/06
17	73890--D2		06030017	01/30/06
18	73891--FGA		06030018	01/30/06
19	73892--FGR		06030019	01/30/06
20	73893--K1-GE		06030020	01/30/06
21	73894--K2		06030021	01/30/06
22	73895--AP1		06030028	01/30/06
23	73896--R1-GE		06030022	01/30/06
24	73897--R2		06030023	01/30/06
25	73898--R3		06030024	01/30/06
26	73899--R4G		06030025	01/30/06
27	73900--R5		06030026	01/30/06
28	73901--X1		06030027	01/30/06



Top chord 2x4 SP #2 :SC1 2x4 SP #3:

Bot chord 2x4 SP #2

Webbs 2x4 SP #3

:Stack Chord T4 2x4 SP #2:

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.

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

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.

Gable end supports 8" max rake overhang.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

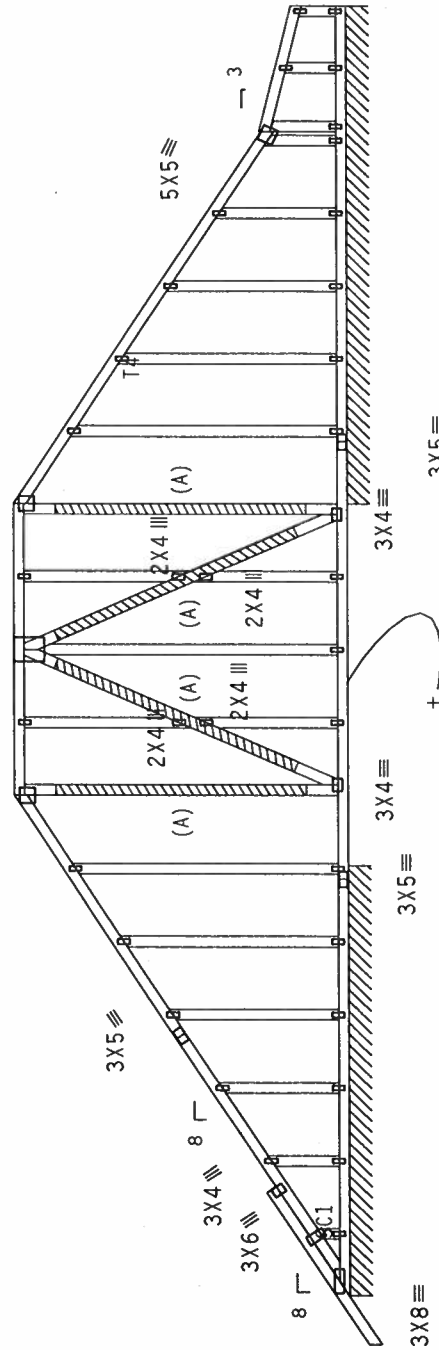
(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

In lieu of structural panels use purlins to brace all sloping TC @ 24" OC; all flat TC @ 0" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

5X5 ≡ 8X10 (R) ≡ 5X5 ≡



3X8 ≡

1-4-0

2-11-8 (NNL)

4-4-0

13-8-8

33-9-8

32-5-0

21-8-8

3X5 ≡

3X4 ≡

3X5 ≡

3X4 ≡

3X5 ≡

3X4 ≡

3X5 ≡

3X4 ≡

3X5 ≡

3X4 ≡

3X5 ≡

3X4 ≡

3X5 ≡

3X4 ≡

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002 (STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .1875" / Ft.

FL/-4/-/-R/-

TY:1

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

REF R487 - 73874

DATE 01/30/06

DRW HCUSR487 06030001

HC-ENG TCE/AF

SEQN- 73731 REV

FROM JP

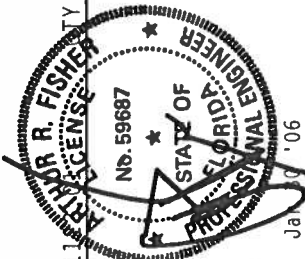
JREF- 1SU8487 Z01

PLT TYP. Wave



Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844



WARNING TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION 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, 6500 WESTERN BL., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE WORKS. THESE TRUSSES SHALL HAVE A PROPERLY ATTACHED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

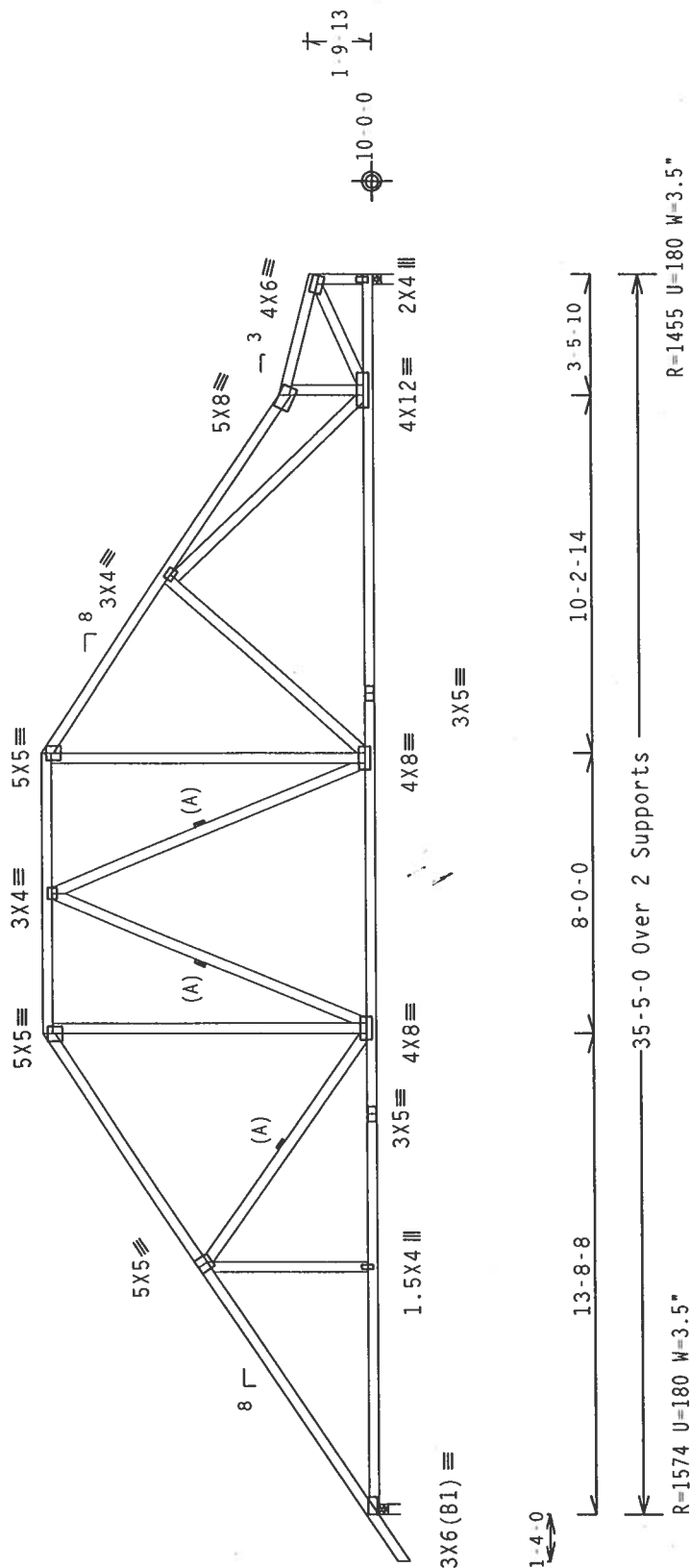
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN ACCORDANCE WITH THIS DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER .NREX 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 ANSII/TPI 1 SEC. 7.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, 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.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Scale = .1875"/Ft.

EF R487 - - 73875

DATE 01/30/06

FILE 100/100/100

RW HCUSR48/ 06030002

C-ENG TCE/AF

EQN- 80448

ROM JP

REF- 15118487 701

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PULPIT INSTITUTE), 583 O'NEILL RD., SUITE 200, MADISON, WI 53719, AND NICA (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"—URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED TRUSS COMPANY'S ASSUMES NO LIABILITY OR GUARANTEE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI—OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES DESIGN COMBINED WITH APPLICABLE CODES (NATIONAL DESIGN SPEC. BY AISC) AND TPI—ALPINE CONNECTOR PLATES ARE MADE OF 2018/T66GA (M/SK3), ASTM A572 GRADE 40/F60 (M/SK3). POSITIVE IDENTIFICATION SHALL BE MADE BY INSPECTION OF PLATES FOLLOWED BY AN X-RAY ANALYSIS. POSITION NUMBER DIAGRAMS 180A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805,

Alpine Engineered Products, Inc.
1950 Marley Drive
St. Louis, Mo. 63114

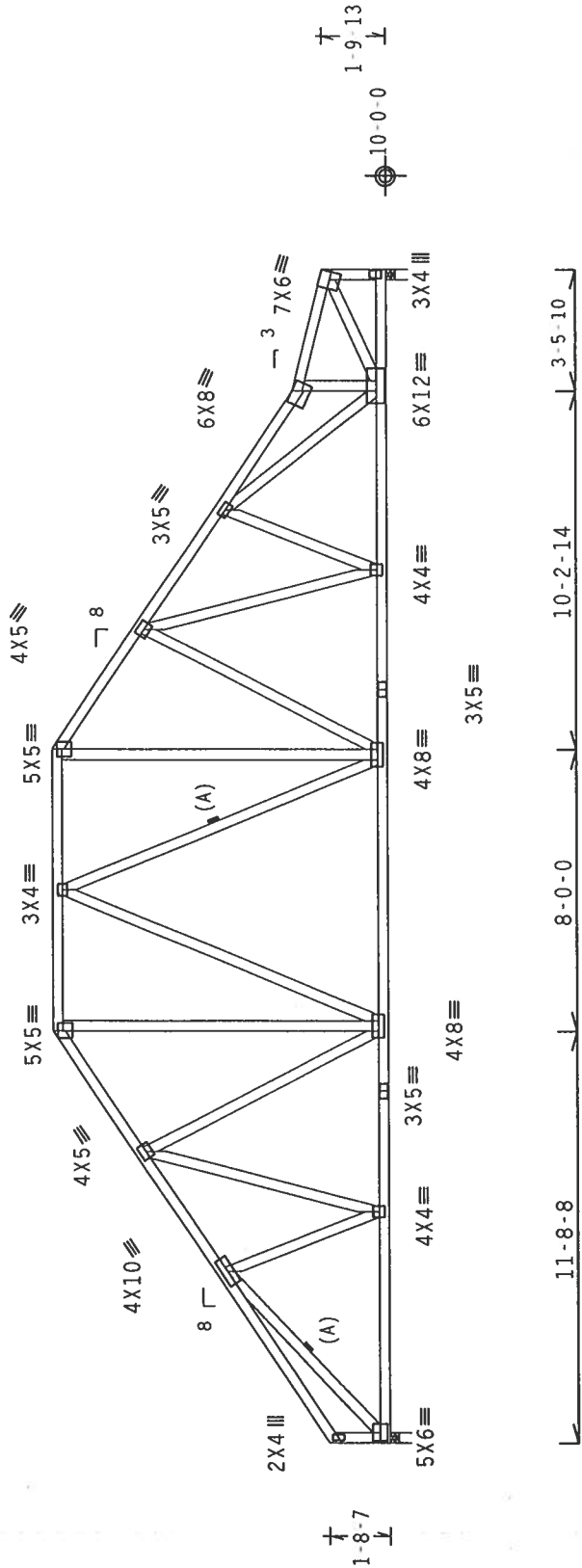
(6-040-MACK ROBINSON - CASSIDY - A7)

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at 0.00 to 61 PLF at 1.47
TC - From 271 PLF at 1.47 to 197 PLF at 9.44
TC - From 64 PLF at 9.44 to 64 PLF at 11.71
TC - From 61 PLF at 11.71 to 61 PLF at 19.71
TC - From 64 PLF at 19.71 to 64 PLF at 29.95
TC - From 61 PLF at 29.95 to 61 PLF at 33.42
BC - From 20 PLF at 0.00 to 20 PLF at 33.42
TC - 178 LB Conc. Load at 1.47

110 mph wind, 15.61 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.
(A) Continuous lateral bracing equally spaced on member.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

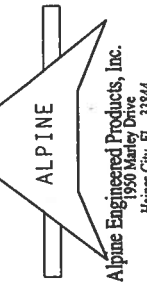


11-8-8 8-0-0 10-2-14 3-5-10
R=2701 U=300 W=3.5"
R=1597 U=180 W=3.5"

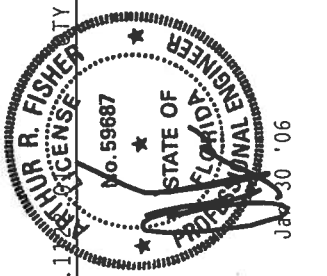
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Scale = .1875" / Ft.
TC LL 20.0 PSF
TC DL 10.0 PSF
BC DL 10.0 PSF
BC LL 0.0 PSF
TOT.LD. 40.0 PSF
DUR.FAC. 1.25
CDATING 2A 0*



ALPINE ENGINEERED PRODUCTS, INC.
1950 Mayfield Drive
Haines City, FL 33824



Top chord 2x4 SP #2 Dense

Bot chord 2x4 SP #2 Dense

Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:

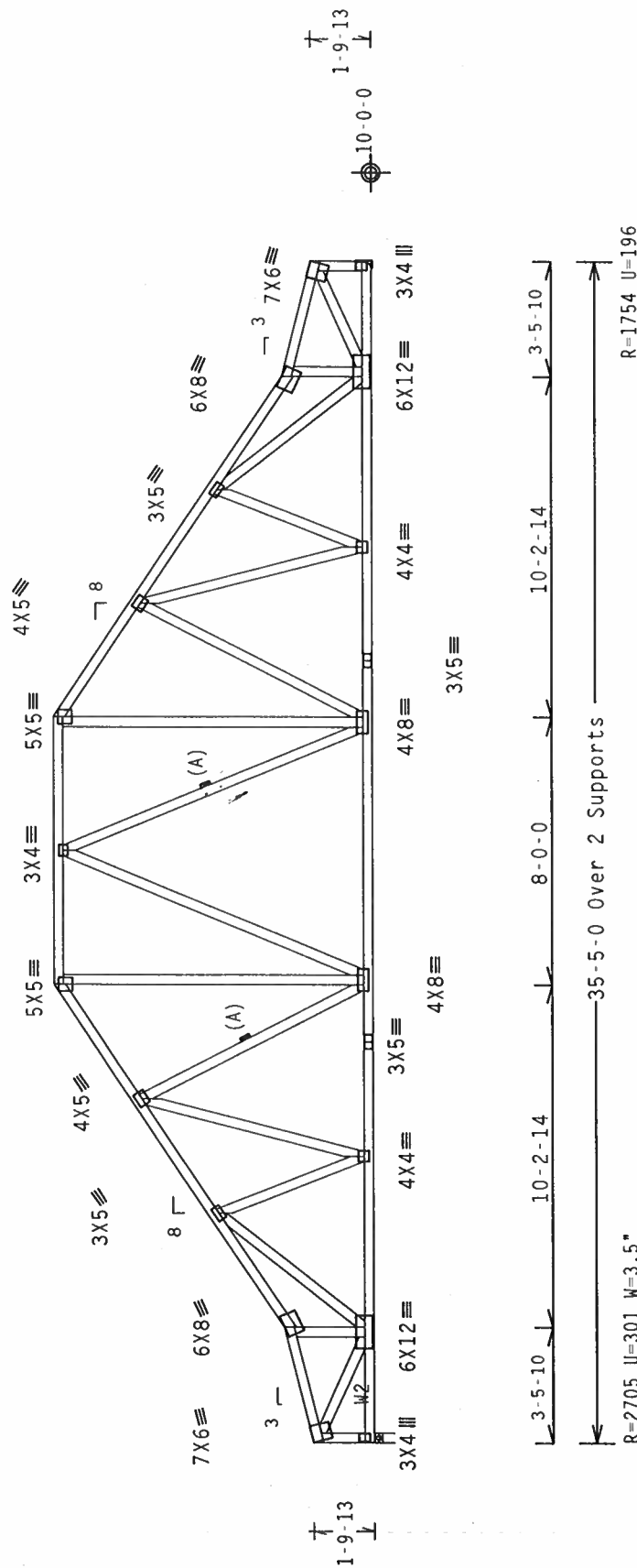
SPECIAL LOADS

		LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25	
IC - From	61 PLF at 0.00 to	61 PLF at 3.47	
IC - From	271 PLF at 3.47 to	197 PLF at 11.44	
IC - From	64 PLF at 11.44 to	64 PLF at 13.71	
IC - From	61 PLF at 13.71 to	61 PLF at 21.71	
IC - From	64 PLF at 21.71 to	64 PLF at 31.95	
IC - From	61 PLF at 31.95 to	61 PLF at 35.42	
8C - From	20 PLF at 0.00 to	20 PLF at 35.42	
CC -	178 LB Conc. Load at	3.47	

110 mph wind; 15.66 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.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

Scale = .1875"/Ft.

TTY: 3 FL/-/4/-/-/R/-/-

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BUREAU OF LAND MANAGEMENT
DENVER, COLORADO 80202

7.22.15

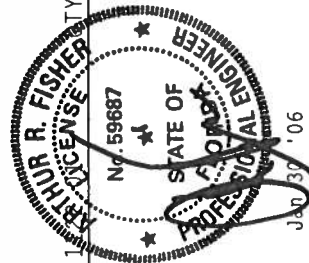
 $C_a/RT=1.00(1.25)/$

Design Brief:

PIT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS-103 (BUILDING COMPONENTS) AND THE FOLLOWING INFORMATION FOR PROPER TRUSS CONSTRUCTION, DETAILING, Erection, AND MAINTENANCE. SEE SECTION 5.06.00 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. ANY CHANGES TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRODUCTION OF THE PRODUCTS AND THE INSTALLATION OF THE TRUSSES. ANY FAILURE TO FOLLOW THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRODUCTION OF THE PRODUCTS AND THE INSTALLATION OF THE TRUSSES. ANY FAILURE TO FOLLOW THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRODUCTION OF THE PRODUCTS AND THE INSTALLATION OF THE TRUSSES. ANY FAILURE TO FOLLOW THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



Alpine Engineered Products, Inc.
1950 Marley Drive

(6-040-MACK ROBINSON - CASSIDY - A10-GE)

Top chord 2x4 SP #2 :SC1 2x4 SP #3:

Bot chord 2x4 SP #2

Web 2x4 SP #3

:Stack Chord T4 2x4 SP #2::Stack Chord T5 2x4 SP #2:

:Stack Chord T6 2x4 SP #2:

Gable end supports 8" max rake overhang.

See DWGS A11015EE0405 & GBLLEIN0405 for more requirements.

Stacked top chord must NOT be notched or cut in area (NNL).

Dropped top chord braced at 24" o.c. intervals. Attach stacked

top chord (SC) to dropped top chord in notched area using 3x4

tie-plates 24" o.c. Center plate on stacked/dropped chord

interface, plate length perpendicular to chord length. Splice top

chord in notched area using 3x6.

+ Member to be laterally braced for horizontal wind loads.

Bracing system to be designed and furnished by others.

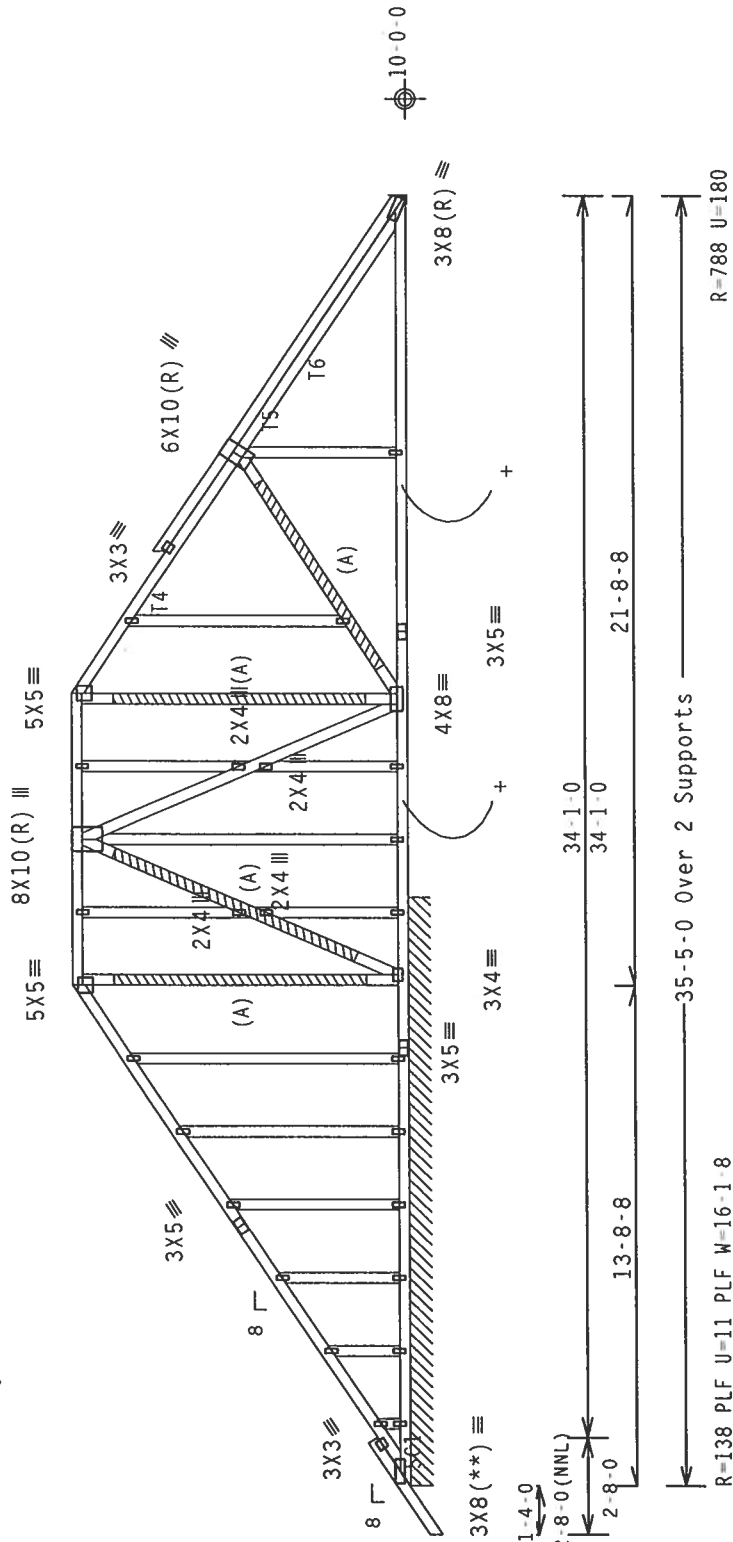
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

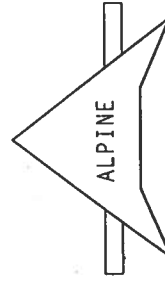
7-22-11

FL/-4/-/-R/-

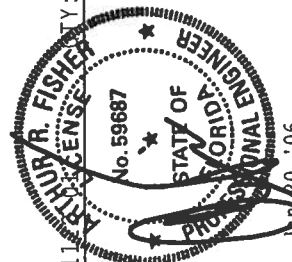
Scale = .1875"/Ft.

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 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.

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Alpine Engineered Products, Inc.
1950 Marley Drive



TC LL	20.0 PSF	REF	R487--	73883
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030010
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	73736	REV
DUR.FAC.	1.25	FROM	JP	

(6-040-MACK ROBINSON - CASSIDY - B1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

See DWGS A11015EE0405 & G81LETTIN0405 for more requirements.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

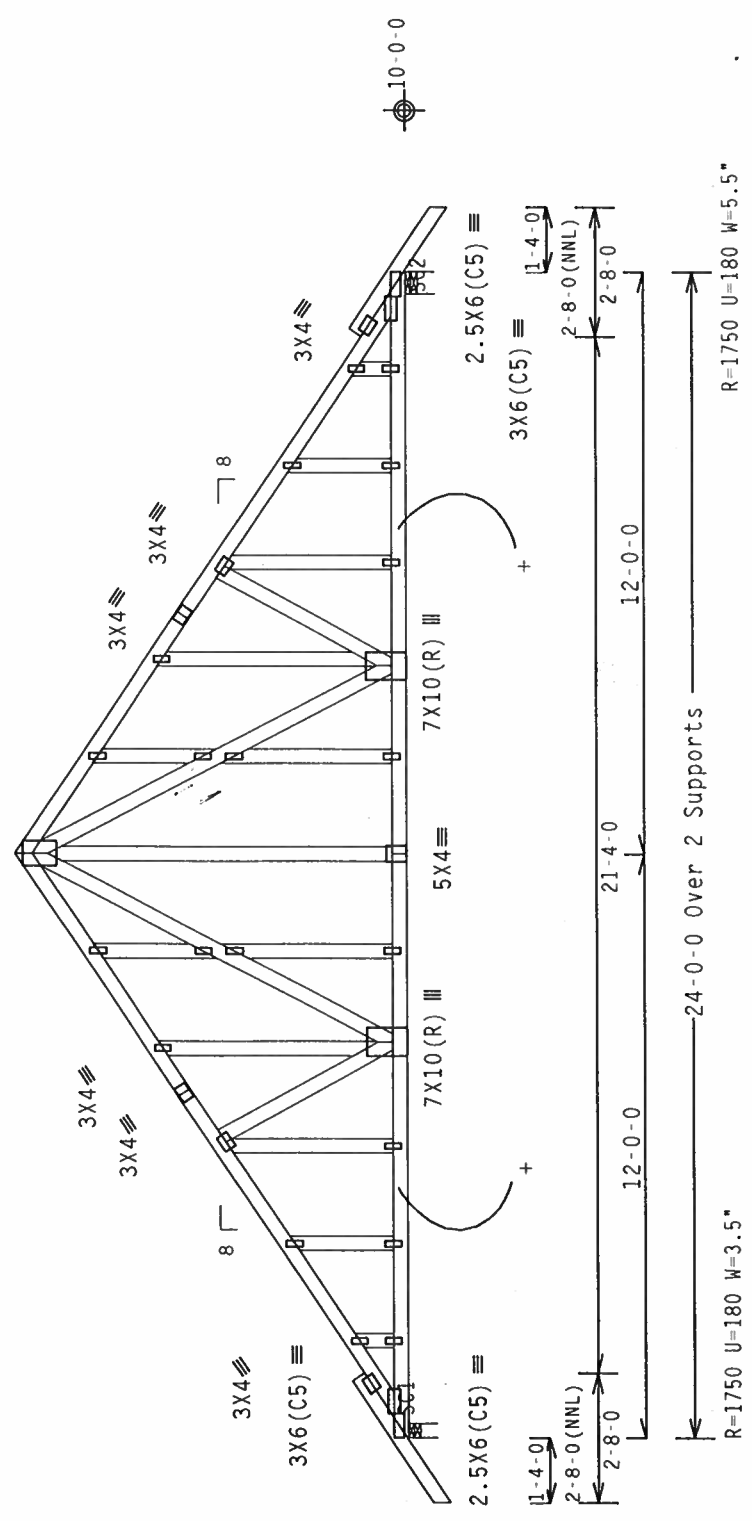
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Gable end supports 8" max rake overhang.

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

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

6X8(R) III



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

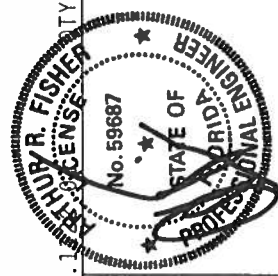
TY:1

Scale = .25"/Ft.

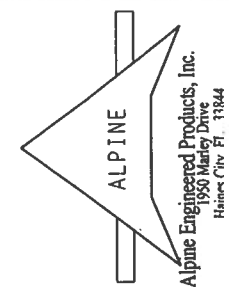
PLT TYP. Wave

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'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE CR., 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 OR BRACING OF TRUSSES DESIGN CONFORMS WITH THE PROVIDER'S SPECIFICATIONS AND THE SPECIFICATIONS OF THE TRUSS MANUFACTURER. THE TRUSS SHALL BE CONSIDERED A STRUCTURAL MEMBER AND SHALL BE TREATED AS SUCH. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 1-2. 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 COMPONENTS SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX 1 SEC. 2.



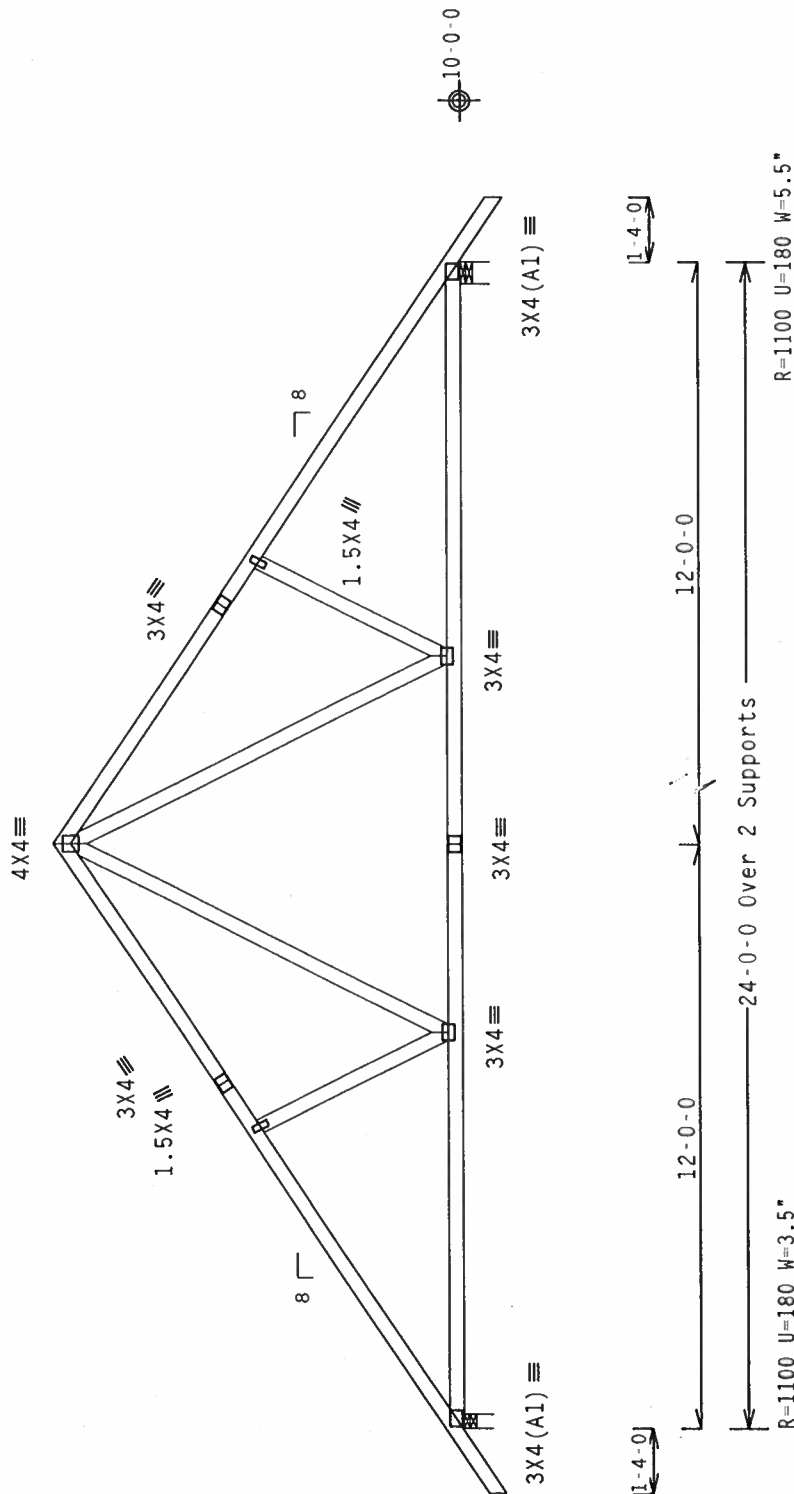
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TC DL	10.0 PSF		DATE	01/30/06	
BC DL	10.0 PSF		DRW	HCUSR487	06030011
BC LL	0.0 PSF		HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF		SEQN-	80302	
DUR.FAC.	1.25		FROM	JP	
SPACING	24 0"		DIFF -	1 C10A87	701



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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

PLT TYP. Wave

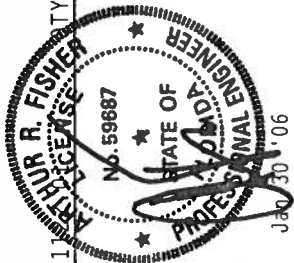
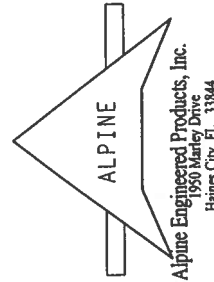
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.13

TY:13 FL/-/4/-/R/-

Scale = .25"/Ft.

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 D'AMORE DR., SUITE 200, MADISON, WI 53719, AND MTCA (WOOD TRUSS COUNCIL OF AMERICA), 600 N. WISCONSIN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIVITIES. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT** TURN IN 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 2018/166A (W. H/5/K) ASTM A553 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX I TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - -	73885
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030012
BC LL	0.0 PSF	HC-ENG	TCE/AF	*
TOT.LD.	40.0 PSF	SEQN-	80282	
DUR.FAC.	1.25	FROM	JP	
SPACING	24.0"	JRFF	15U8487	701

(6-040-MACK ROBINSON - CASSIDY - B3-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #3:

See DWGS A11015EE0405 & 6BLLETIN0405 for more requirements.

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

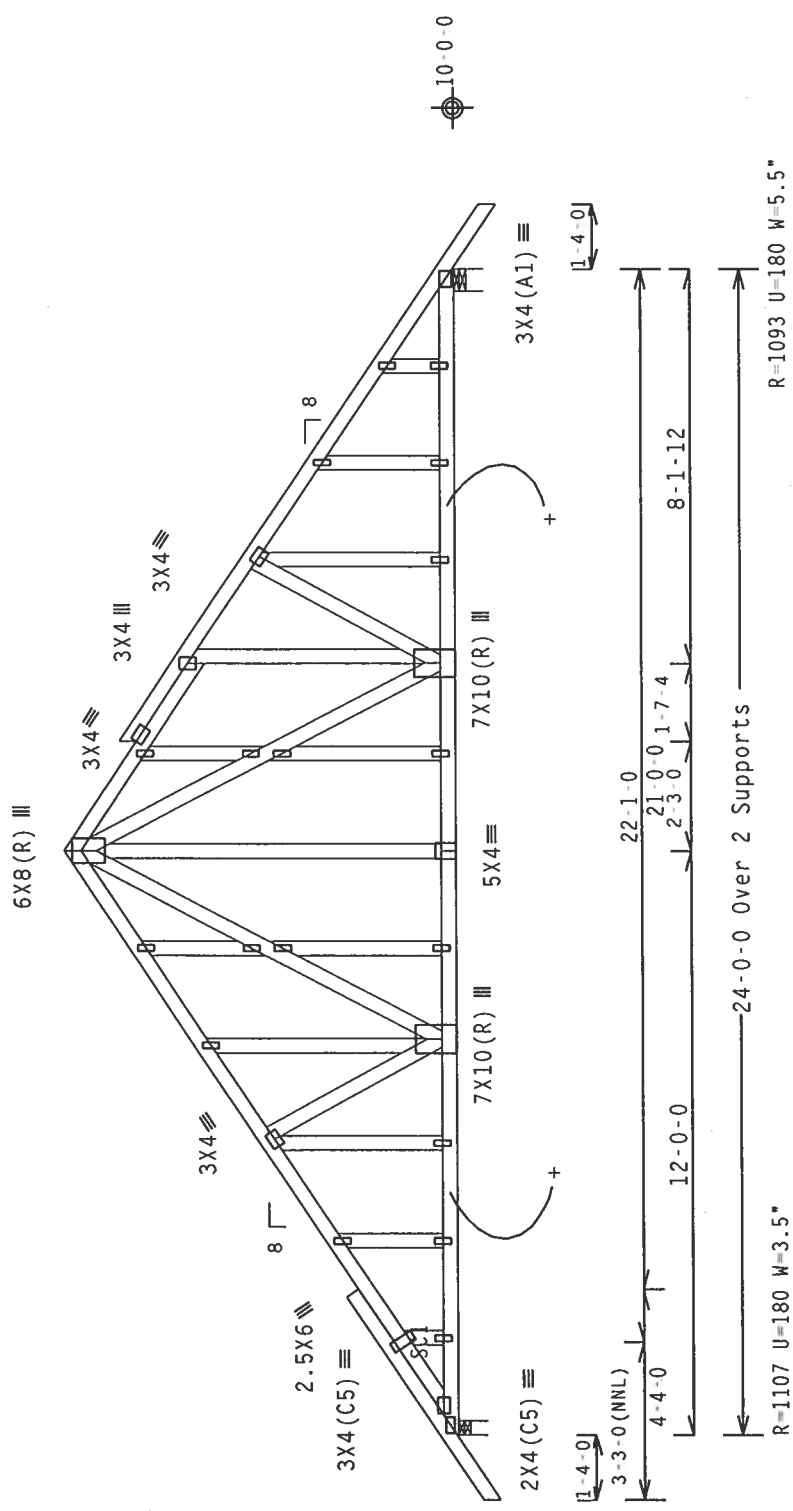
+ Member to be laterally braced for horizontal wind loads.
Bracing system to be designed and furnished by others.

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

Gable end supports 8" max rake overhang.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



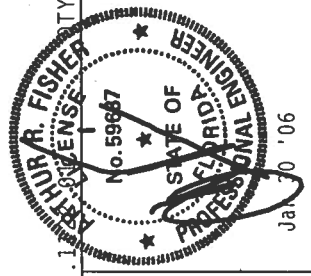
Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22.12

Scale = .25"/Ft.

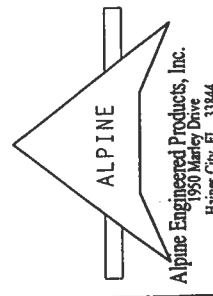
PLT TYP. Wave



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'ORFORD 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 TURN IN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND IPI. APPLY CONNECTOR PLATES MADE OF 2018/16GA (W-15/5/K) ASIM A653 GRADE 40/60 (W. K/H-5) 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 IP11 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.

TC LL	20.0 PSF	REF	R487 -	73886
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030013
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	27467	
DUR.FAC.	1.25	FROM	JP	
SPACING	24 0"	IRFF	151R487	701

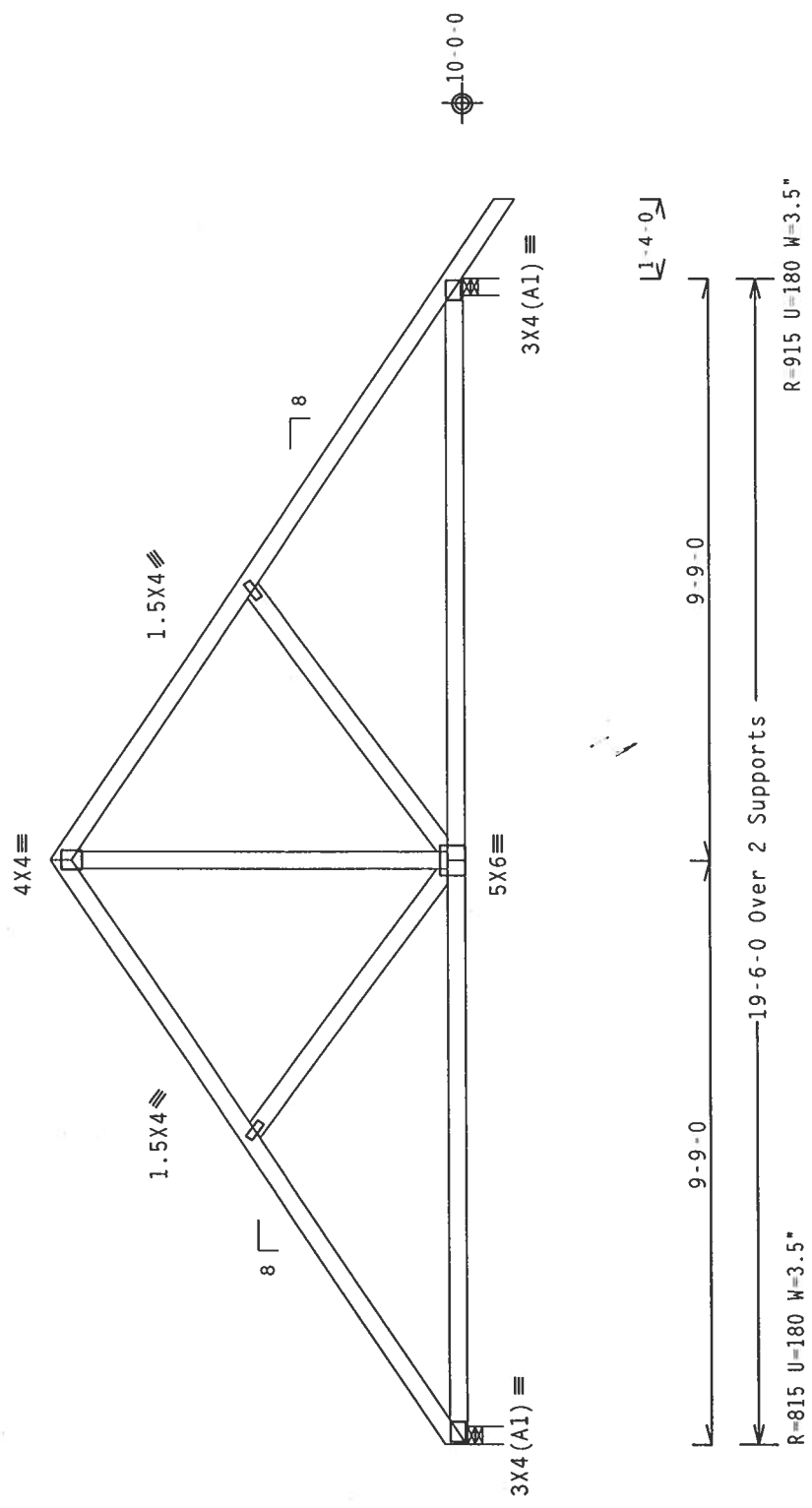


(6-040-MACK ROBINSON - CASSIDY - C2)

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

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R487 - -	73888
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030015
BC LL	0.0 PSF	HC-ENG	TCE/AF	*
TOT.LD.	40.0 PSF	SEQN-	80293	
DUR.FAC.	1.25	FROM	JP	

Jan 30 '06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Madison, WI 53719

****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'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1064 (W.H/5/2K) ASTM A505 GRADE 40/60 (M. 6/PL.5) GALV. STEEL. APPLICABLE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED AS OF TPI 2002 SECTION PER DRAWING AND ANNOTATIONS FOR INSTALLATION AND BRACING. THE SUITABILITY AND USE OF THIS COMPONENT IS THE RESPONSIBILITY OF THE DESIGN SHOWN.

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

```

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

```

Gable end supports 8" max rake overhang.

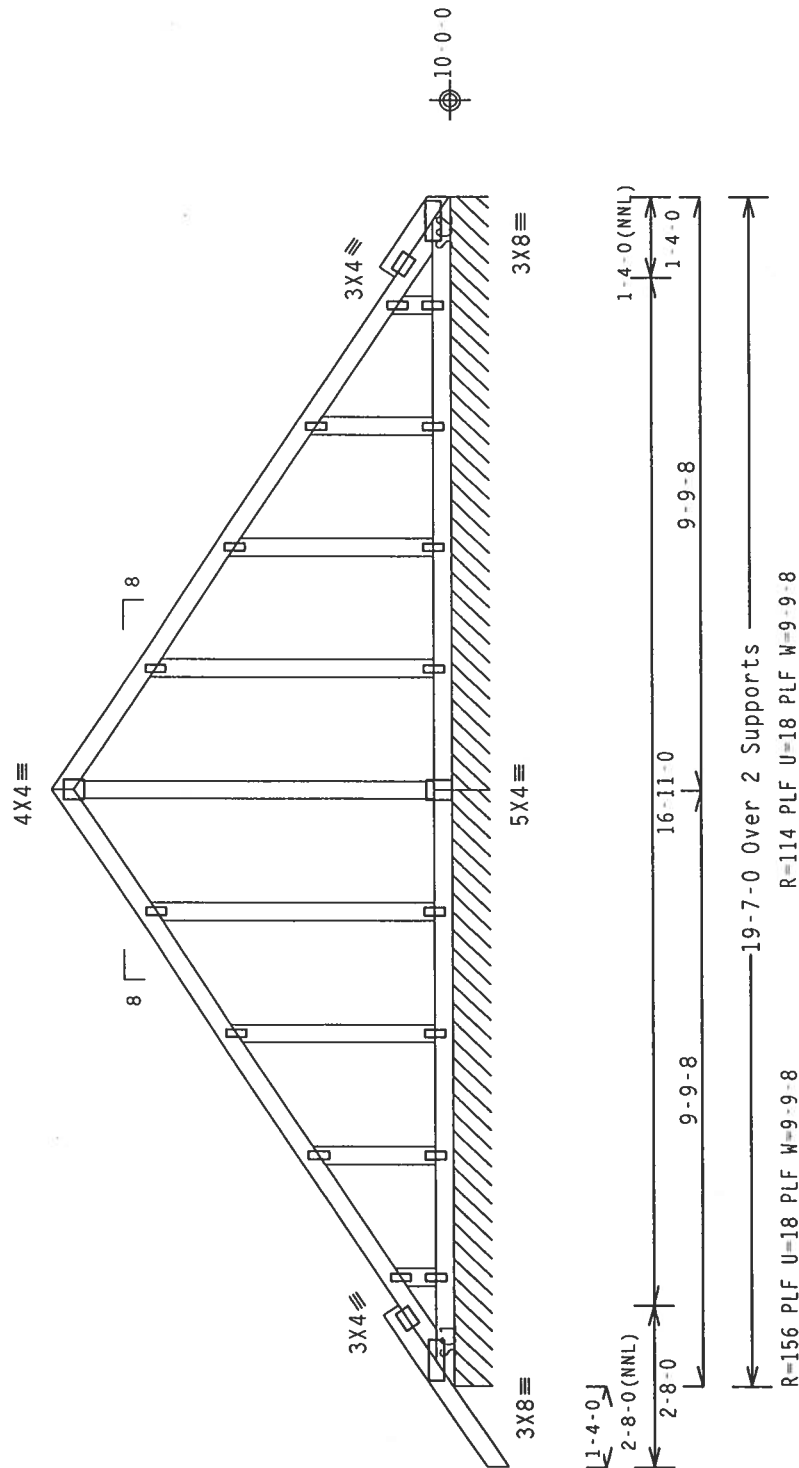
Stacked top chord must NOT be notched or cut in area (NWL).
Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice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

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

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.

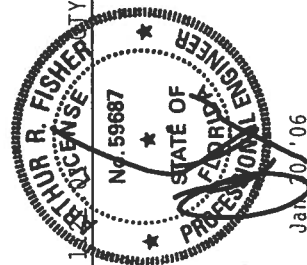
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

TC LL	20.0	PSF	REF	R487--	73889
TC DL	10.0	PSF	DATE	01/30/06	
BC DL	10.0	PSF	DRW	HCUSR487	06030016
BC LL	0.0	PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0	PSF	SEQN-	27377	REV
DUR.FAC.	1.25		FROM	JP	
SPACING	24.0"		TOFF	1CU0497	701

****WARNING**** TRUSSES RUIVREI EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TP1 (TRUSS PULPIT INSTITUTE, 583 D'ONOFIO RD., 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.

[illegible]

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

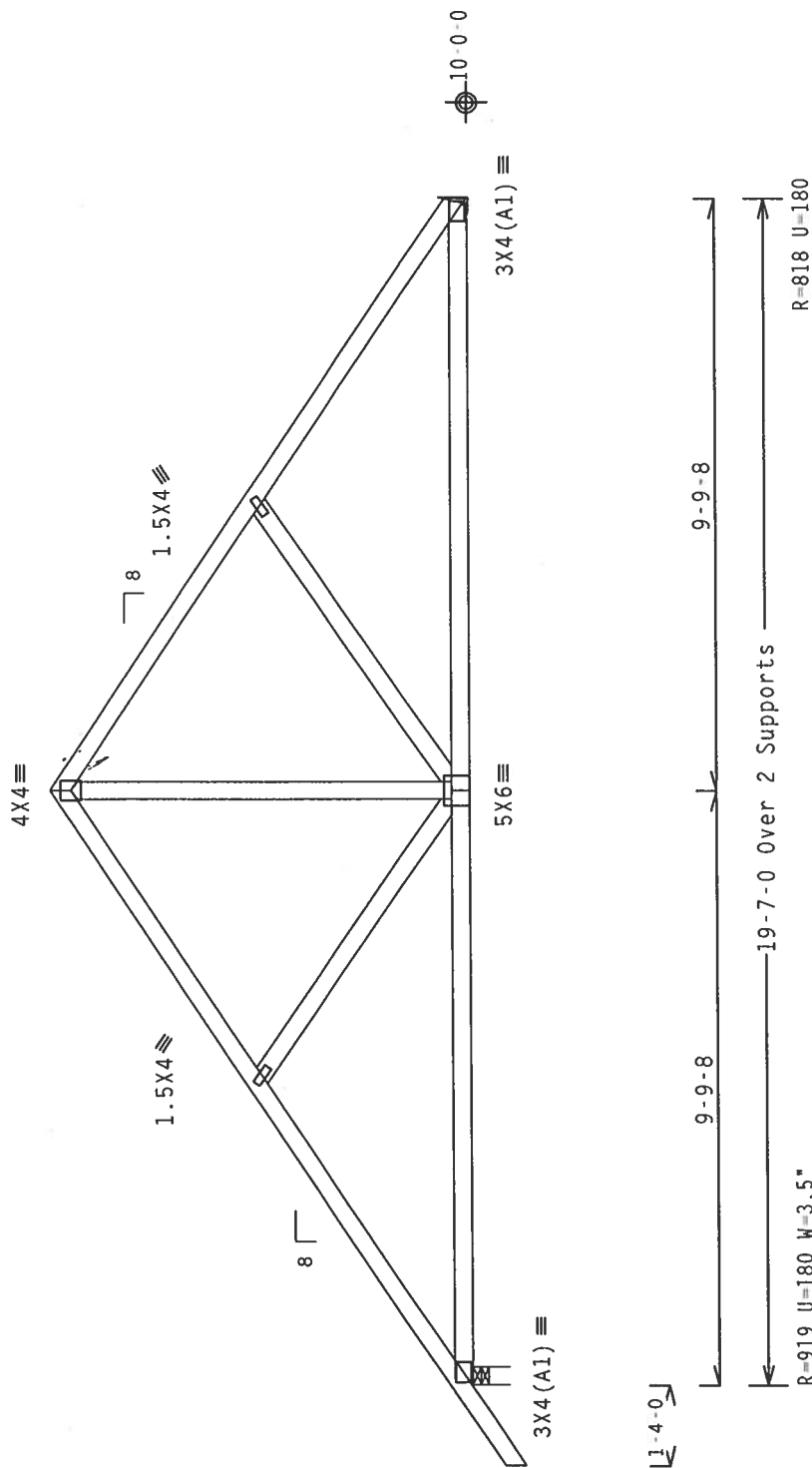
1982 12 14
 1982 12 14

(6-040-MACK ROBINSON - CASSIDY - D2)

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

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

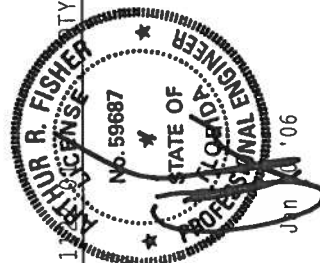


Design Crit: TPI-2002(STD)/FBC

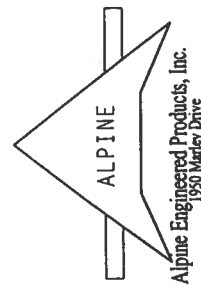
PLT TYP. Wave

Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R487--	73890
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030017
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	27364	
DUR.FAC.	1.25	FROM	JP	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS FLOORING INSTITUTE (TRUSSE FLOORING INSTITUTE, 10000 INTERSTATE 40, DALLAS, TEXAS 75243-1000), FOR ADDITIONAL INFORMATION ON PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED BRIDGING MEMBER.

[illegible]

(6-040-MACK ROBINSON - CASSIDY - FGA)

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

SPECIAL LOADS

-----LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 6.08
BC - From 20 PLF at 0.00 to 20 PLF at 6.08
BC - 1770 LB Conc. Load at 1.02, 3.02, 5.02

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Truss must be installed as shown with top chord up.

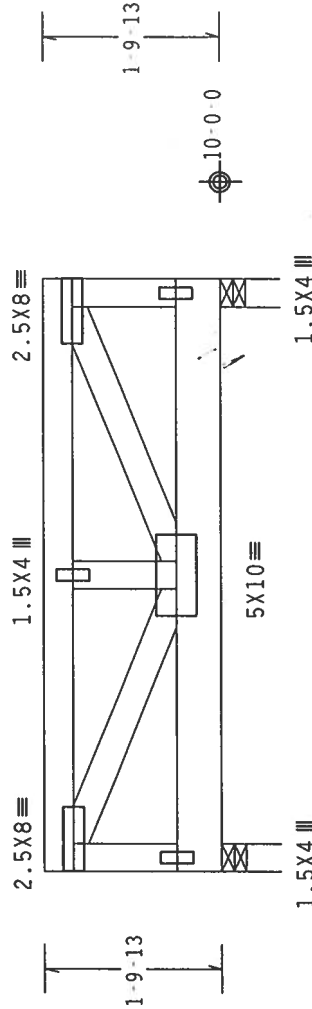
Provide connection for concentrated load(s) shown.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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.

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



6-1-0 Over 2 Supports
R=2917 U=324 W=3.5"
R=2880 U=320 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

7.22.11

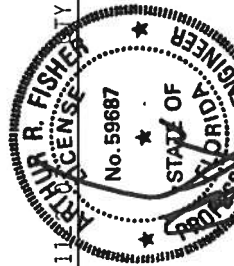
Scale = 5"/Ft.

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/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 PERFORMED BY THE INSTALLATION CONTRACTOR. (2) SHALL BE PERFORMED BY THE TRUSS MANUFACTURER. (3) SHALL BE PERFORMED BY THE TRUSS MANUFACTURER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.



Alpine Engineered Products, Inc.
1950 Marley Drive
Madison, WI 53719



Jan 06

TC LL	20.0 PSF	REF	R487--	73891
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030018
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	80597	
DUR.FAC.	1.25	FROM	JP	

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

SPECIAL LOADS

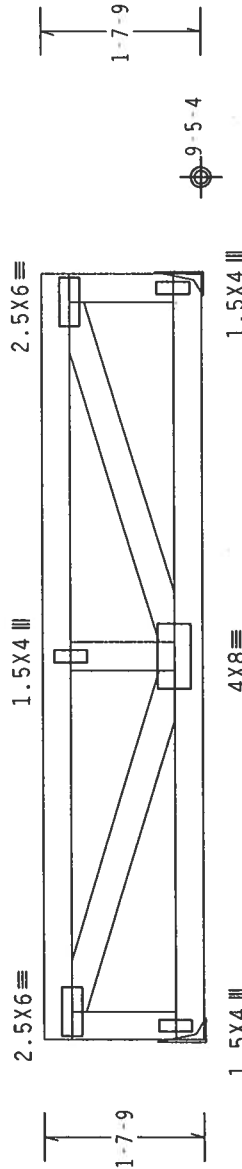
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 7.88
BC - From 20 PLF at 0.00 to 20 PLF at 7.88
BC - 181 LB Conc. Load at 1.94, 3.94, 5.94

Truss must be installed as shown with top chord up.
Provide connection for concentrated load(s) shown.

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

Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 1.50.

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



7-10-8 Over 2 Supports
R=587 U=180
R=587 U=180

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

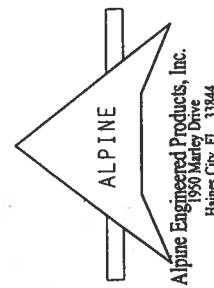
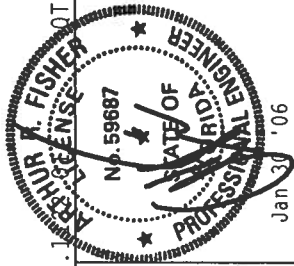
Cq/RT=1.00(1.25)/10(0) 7.22.1

FL/-/4/-/4/-/R/- Scale =.5"/Ft.

WARNING TRUSS: RIGIDITY EXTERNAL 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 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 TURN IN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.
PROJECTS: THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSS. ANY FAILURE TO BUILD THE
TRUSS IN ACCORDANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES,
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&P) AND TPI.
CONNECTOR PLATES ARE MADE OF 2018/16GA (W. 1/2" X 1/2") ASTM A653 GRADE 40/60 (W. 1/2" X 1/2") GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-7.
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 ANSII/TPI 1 SEC. 2.

TC LL	20.0 PSF	REF	R487 - 73892
TC DL	10.0 PSF	DATE	01/30/06
BC DL	10.0 PSF	DRW	HCUSR487 06030019
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	80331
DUR.FAC.	1.25	FROM	JP
SPACING	see above	IRFF-	1SIR487 701



(6-040-MACK ROBINSON - CASSIDY - K1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

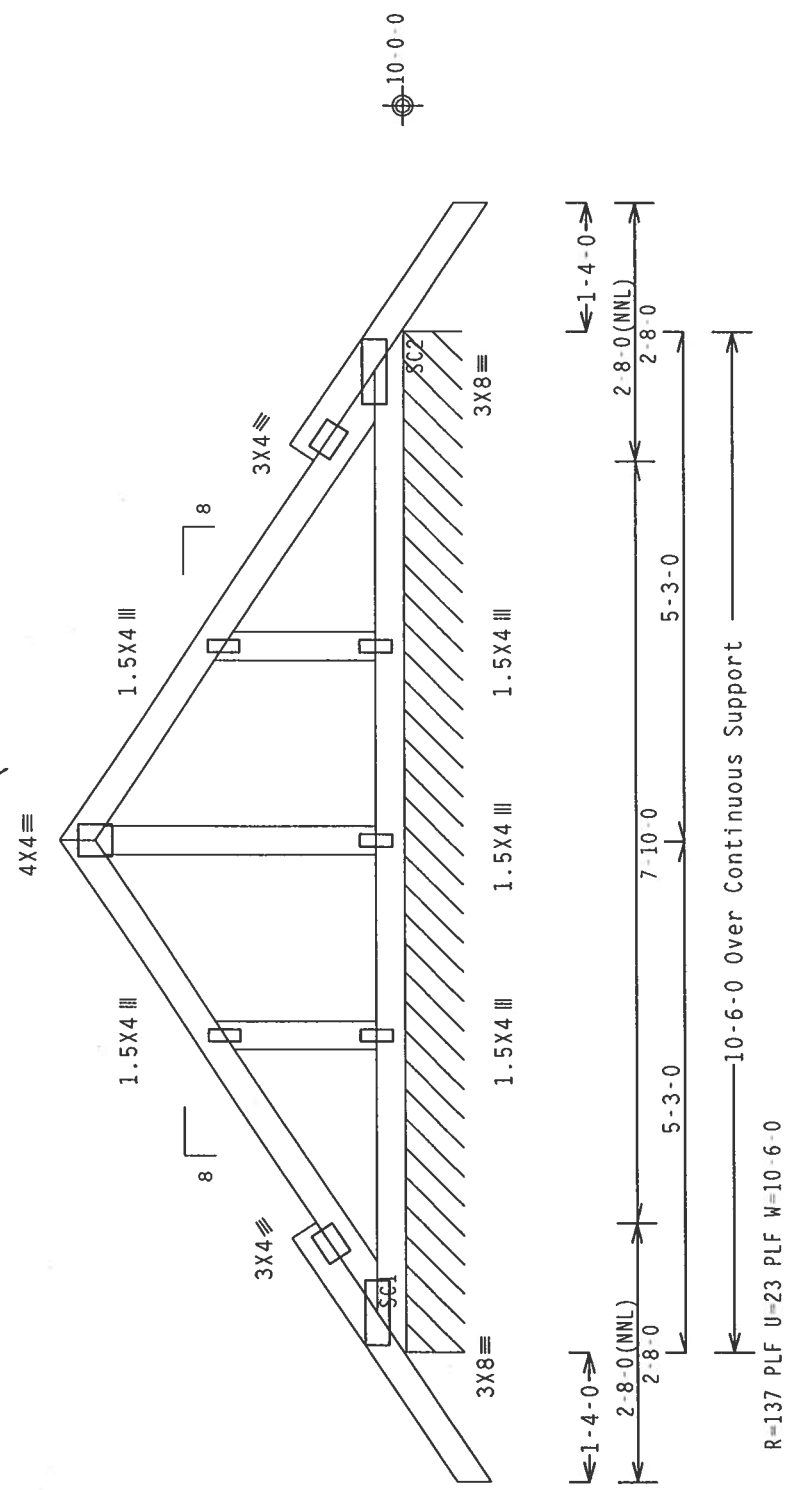
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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.

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



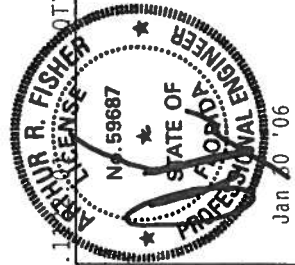
Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22.1

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

Scale = .5" /Ft.

TC LL	20.0 PSF	REF	R487 --	73893
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030020
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	80377	REV
DUR.FAC.	1.25	FROM	JP	
SPACING	24 0"	TRF-	TSIR487	701



ALPINE ENGINEERED PRODUCTS, INC.
1950 Marley Drive
Haines City, FL 33844

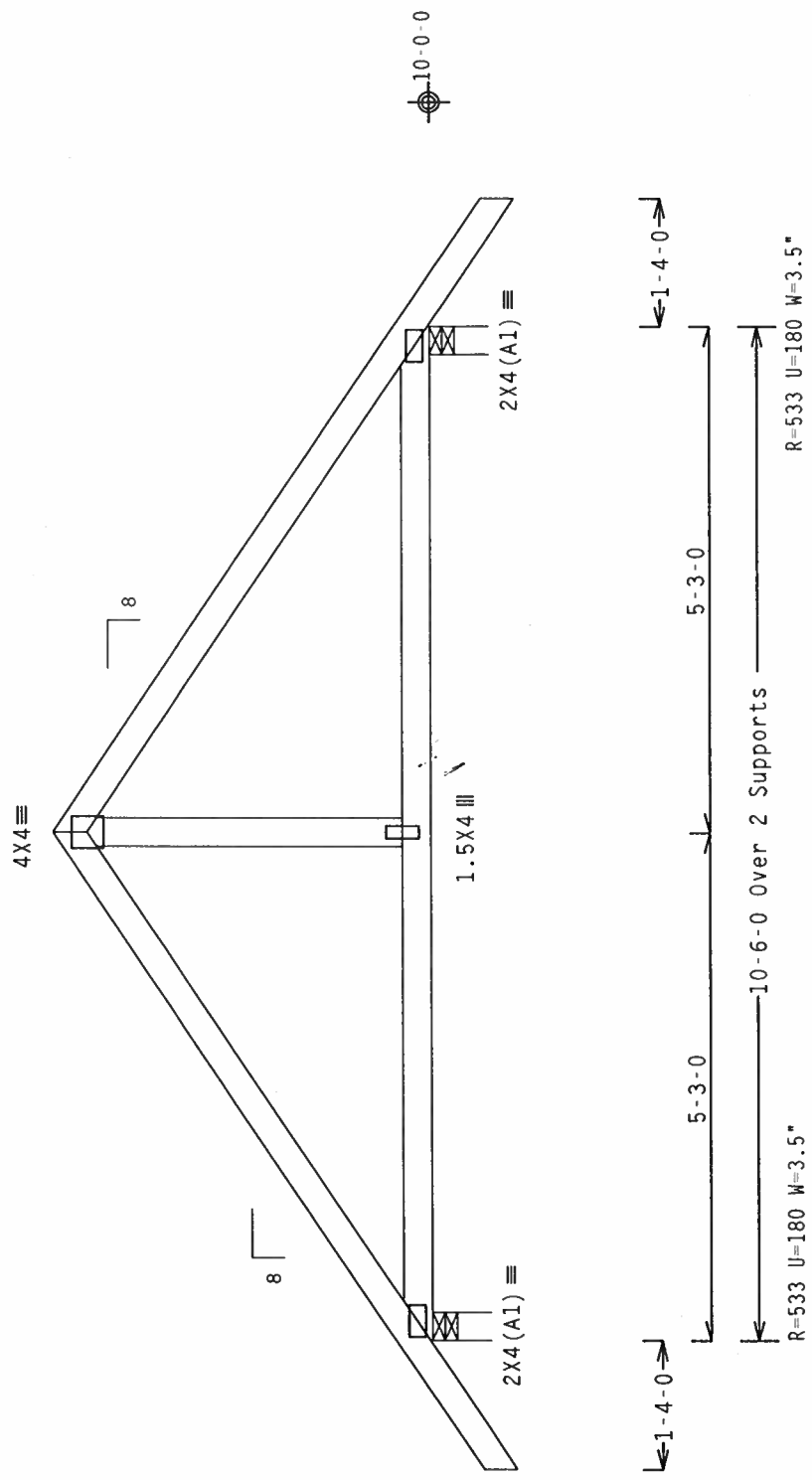
ALPINE
Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

(6-040-MACK ROBINSON - CASSIDY - K2)

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

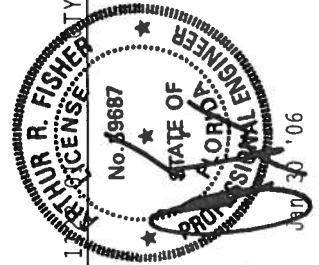
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 1.50.



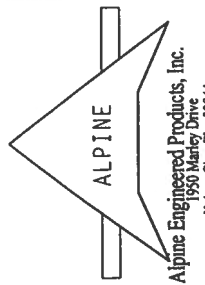
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

PLT TYP. Wave	TY: 2	FL/-/4/-/-/R/-	Scale = .5"/Ft.
	TC LL	20.0 PSF	REF R487 -- 73894
	TC DL	10.0 PSF	DATE 01/30/06
	BC DL	10.0 PSF	DRW HCUSR487 06030021
	BC LL	0.0 PSF	HC-ENG TCE/AF *
	TOT.LD.	40.0 PSF	SEQN- 80370
	DUR.FAC.	1.25	FROM JP



****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'ONOFIO 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 AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND STEEL. APPLY CONNECTOR PLATES ARE MADE OF 20/18/16GA (14.7/5/3/1) STEEL. OTHERS MAY BE USED, BUT MUST BE PERMANENTLY IDENTIFIED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, THE DESIGN POSITION PER DRAWINGS 160A, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. ANY INSPECTION PLACES SHALL BE PERMANENTLY IDENTIFIED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, THE DESIGN POSITION PER DRAWINGS 160A, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.



(6-040-MACK ROBINSON - CASSIDY - APL1)

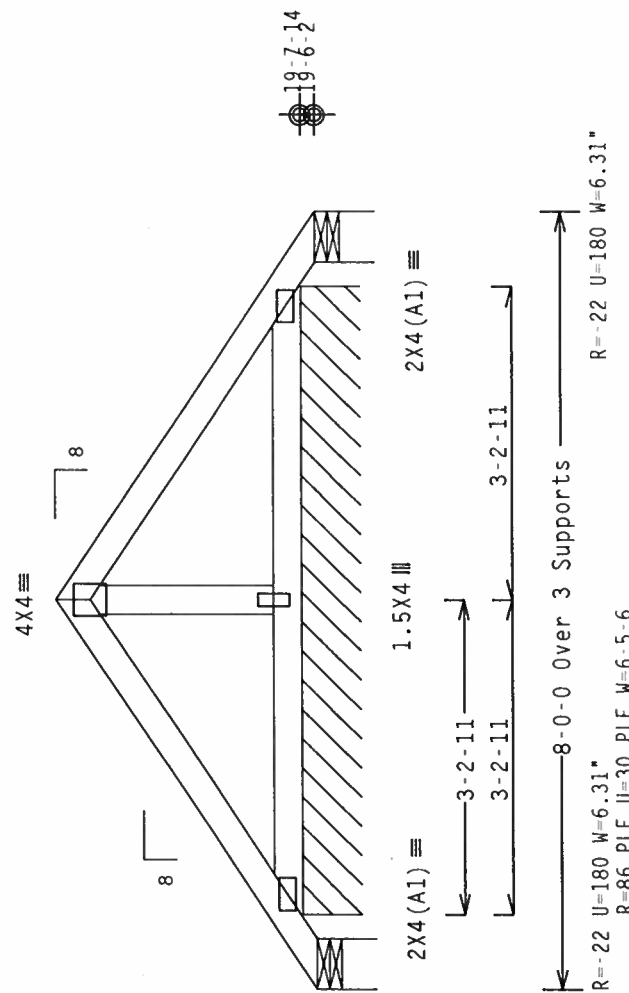
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

110 mph wind, 20.84 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

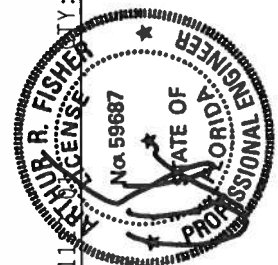
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACK0405 or PIGBACK0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



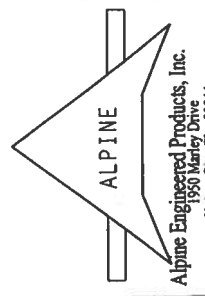
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave		TY:33 FL/-4/-/-R/-		Scale = .5" / Ft.	
Cg/RT=1.00(1.25)/10(0)		TC LL	20.0 PSF	REF	R487-- 73895
		TC DL	10.0 PSF	DATE	01/30/06
		BC DL	2.0 PSF	DRW	HCUSR487 06030028
		BC LL	0.0 PSF	HC-ENG	TCE/AF
		TOT.LD.	32.0 PSF	SEQN-	73740 REV
		DUR.FAC.	1.25	FROM	JP
				DATE	10/11/07



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****IMPORTANT**** TURNISH 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 (U-N/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 100A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS. (2) SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS. (3) SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS. DRAWING INDICATES ACCEPTANCE OF THE TRUSS COMPONENTS. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.



(6-040-MACK ROBINSON - CASSIDY - R1-GE)

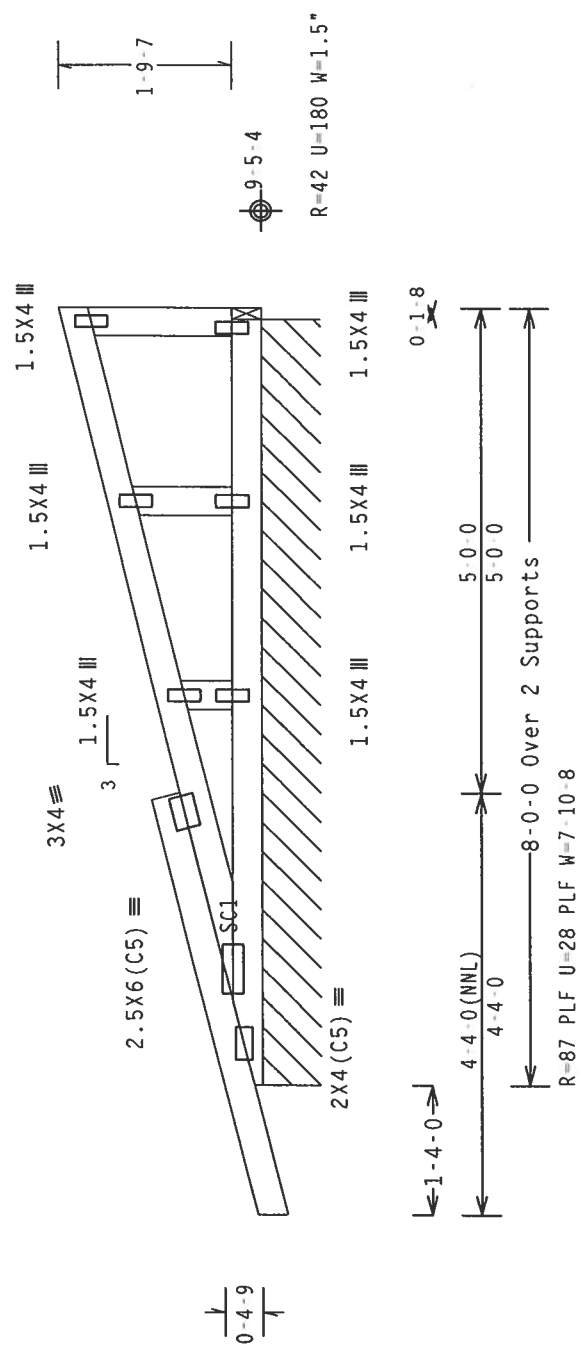
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #2 Dense:

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

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.

In lieu of structural panels use purlins to brace TC @ 24" OC.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

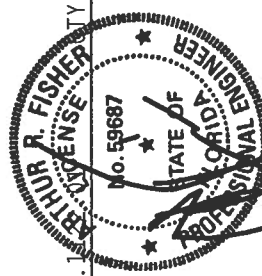


PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

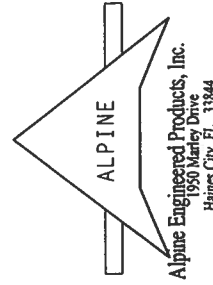
Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R487	73896
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030022
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	80384	
DUR.FAC.	1.25	FROM	JP	
CDACTM/C	24 0"	1000	1000	701



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****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THE DESIGN OR FOR ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. APPLY CONNECTOR PLATES MADE OF 20/18/16GA (M-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 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. 7.



(6-040-MACK ROBINSON - CASSIDY - R2)

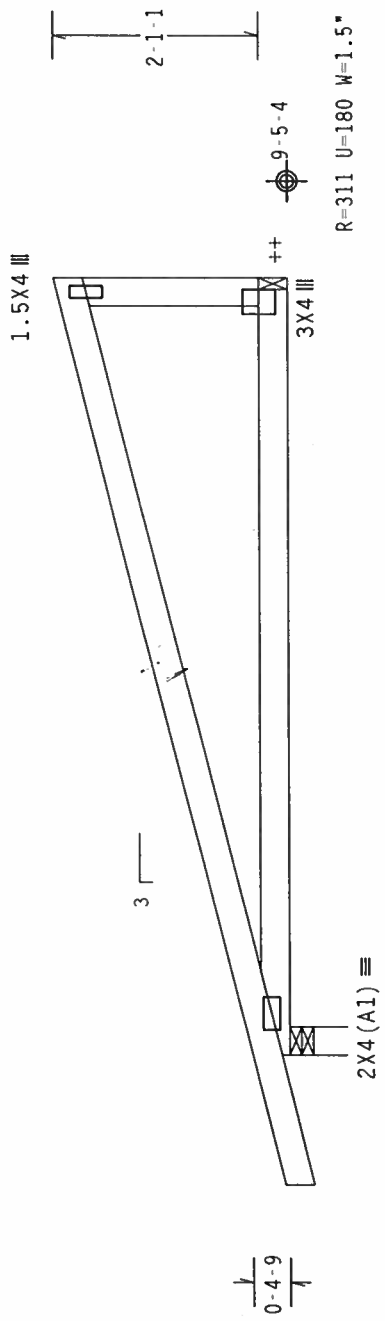
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 1.50.

Right end vertical not exposed to wind pressure.

++ Anchorage req'd to prevent truss from slipping off bearing.



1-4-0 0-1-8

8-0-0 Over 2 Supports

R=418 U=180 W=3.5

Design Crit: TPI-2002(STD)/FBC

Scale = 5" / Ft.

TC LL	20.0 PSF	REF	R487 - 73897
TC DL	10.0 PSF	DATE	01/30/06
BC DL	10.0 PSF	DRW	HCUSR487 06030023
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	80313
DUR.FAC.	1.25	FROM	JP
CDATING	24 0"	DIFF	1 C118487 701



ALPINE
ENGINEERED PRODUCTS, INC.
1950 Marley Drive
Haines City, FL 33844

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(6-040-MACK ROBINSON - CASSIDY - R3)

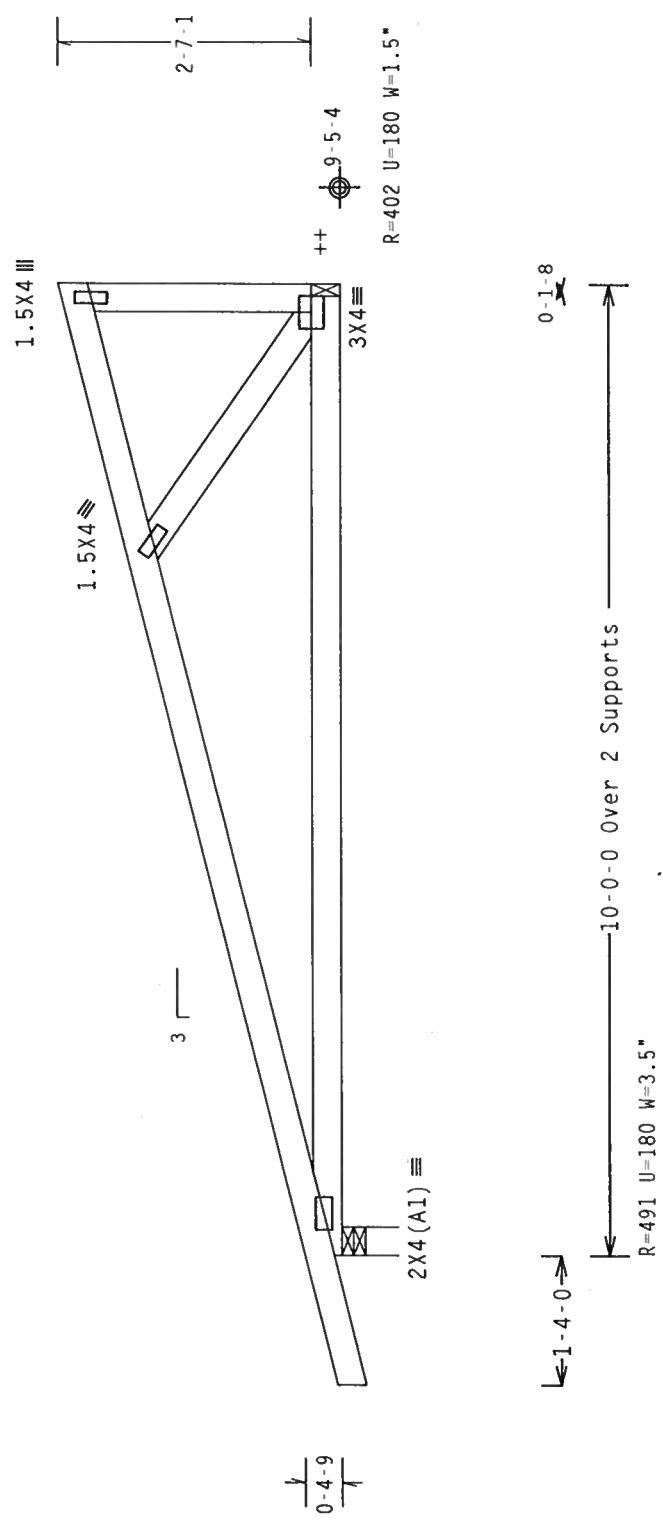
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Right end vertical not exposed to wind pressure.

++ Anchorage req'd to prevent truss from slipping off bearing.



Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22

PLT TYP. Wave

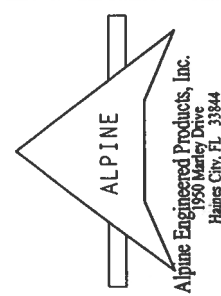
Scale = .5"/Ft.

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TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24 0"

REF	R487--	73898
DATE	01/30/06	
DRW	HCUSR487	06030024
HC-ENG	TCE/AF	
SEQN	80402	
FROM	JP	
IRFF	1	1518487 701



(6-040-MACK ROBINSON - CASSIDY - R4G)

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

SPECIAL LOADS

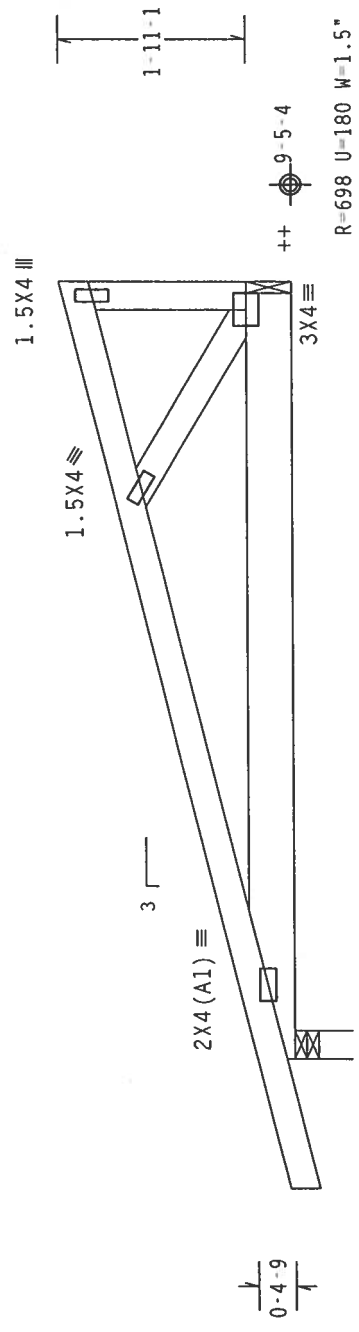
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at -1.33 to 61 PLF at 8.00
BC - From 4 PLF at -1.33 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.88
PLB- 587 LB Conc. Load at (5.06,9.48)

Provide connection for concentrated load(s) shown.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

++ Anchorage req'd to prevent truss from slipping off bearing.



0-1-8
8'-0-0 Over 2 Supports
R=617 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

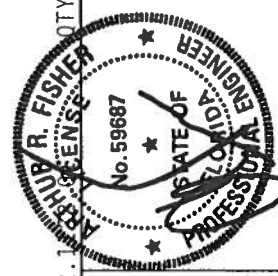
Cg/RT=1.00(1.25)/10(0)

OTY:2

FL/-/4/-/R/-

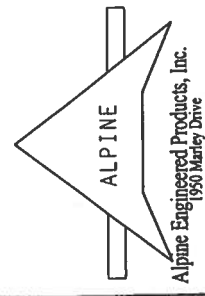
Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R487--	73899
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030025
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	80355	
DUR.FAC.	1.25	FROM	JP	



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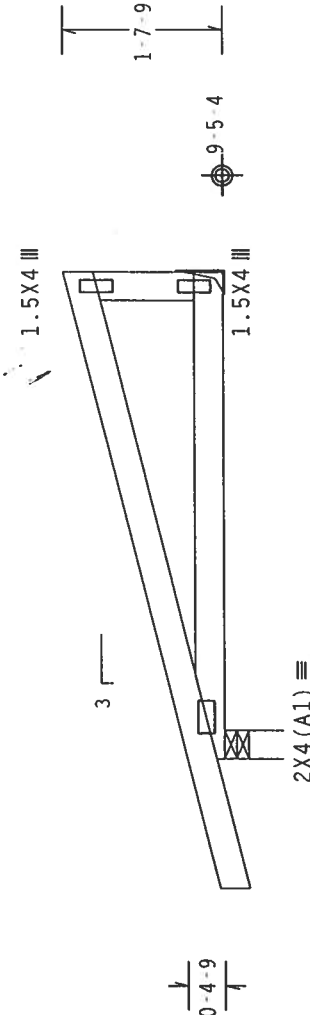


(6-040-MACK ROBINSON - CASSIDY - R5)

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

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



1-4-0
5-0-0 Over 2 Supports
R=308 U=180 W=3.5"
R=181 U=180

Design Crit: TPI-2002 (STD) / FBC

PLT TYP. Wave

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

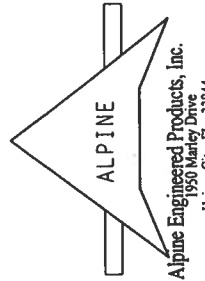
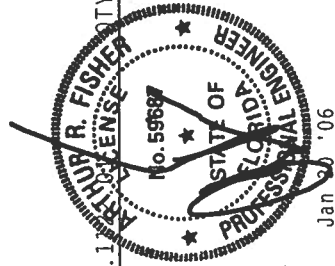
7.22.11

Scale = .5" / Ft.

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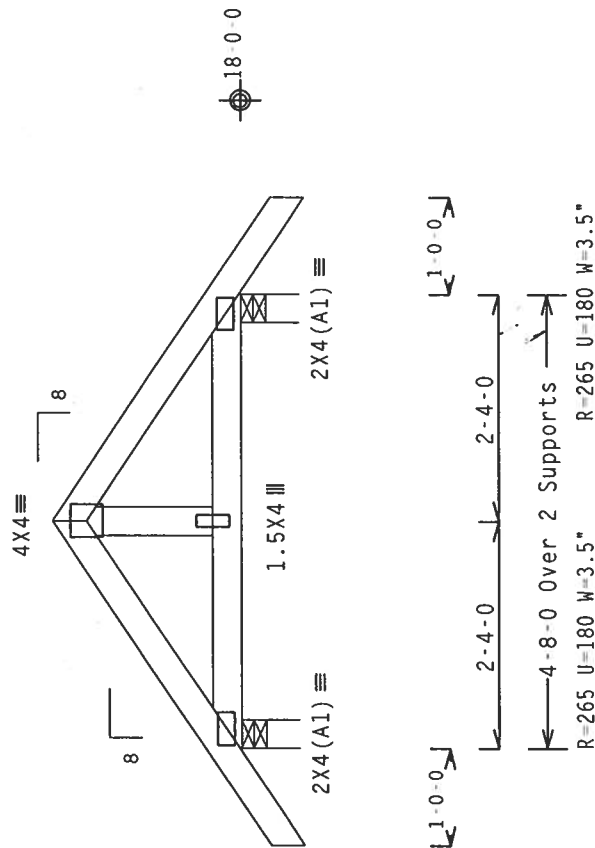
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TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030026
BC LL	0.0 PSF	HC-ENG	TCE/AF	*
TOT.LD.	40.0 PSF	SEQN-	80322	
DUR.FAC.	1.25	FROM	JP	
CONTACT	24 00	1000	1010107	701



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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 18.82 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.

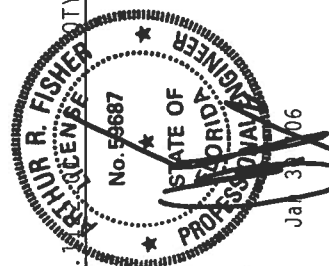


Design Crit: TPI-2002(STD)/FBC

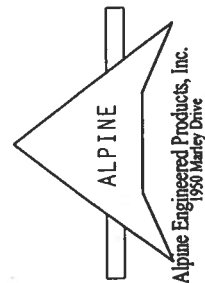
PLT TYP. Wave

QTY: 15 FL / - / 4 / - / - / R / -
Scale = .5" / Ft.

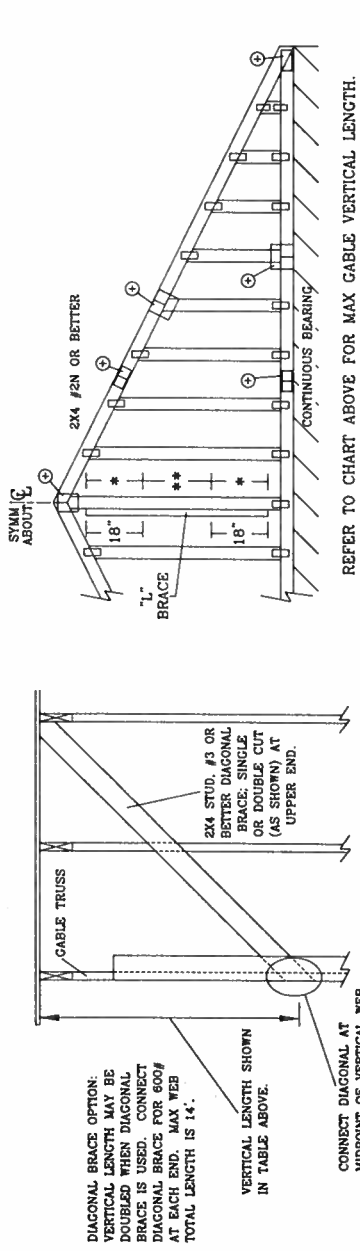
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TC DL	10.0 PSF	DATE 01/30/06
BC DL	10.0 PSF	DRW HCUR487 06030027
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 80390
DUR.FAC.	1.25	FROM JP



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 IPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (.75/.5/.3 K) ASTM A653 GRADE 40/60 (K-515) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLACEMENT OF ALL LONGITUDINAL CONNECTIONS IS REQUIRED PRIOR TO ERECTION. ALPINE ENGINEERING ASSUMES NO PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT IN THIS DESIGN. SHOW THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



2X4 GABLE VERTICAL SPACING		BRACE		(1) 1X4 "L" BRACE		(2) 2X4 "L" BRACE		(1) 2X6 "L" BRACE		(2) 2X8 "L" BRACE	
GABLE VERTICAL SPACING	GRADE	NO. BRACES	BRACE	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
MAX GABLE VERTICAL LENGTH											
12" O.C.	SPF	3' 10"	#1 / #2	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"
	HF	3' 9"	#3	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"
	STANDARD	3' 9"	STANDARD	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"
	SP	4' 3"	#1	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"
24" O.C.	SP	4' 2"	#2	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"
	DFL	4' 0"	#3	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"
	STANDARD	3' 10"	#1 / #2	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"
	SPF	4' 5"	#3	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"
16" O.C.	HF	4' 4"	STANDARD	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"
	STANDARD	4' 4"	STANDARD	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"
	SP	4' 10"	#1	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"
	DFL	4' 9"	#2	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"
12" O.C.	SPF	4' 6"	#3	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"
	HF	4' 5"	STANDARD	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"
	STANDARD	4' 5"	STANDARD	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"
	SP	4' 11"	#1 / #2	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"
12" O.C.	HF	4' 9"	#3	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"
	STANDARD	4' 9"	STANDARD	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"
	SP	5' 4"	#1	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"
	DFL	5' 3"	#2	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"
12" O.C.	SPF	5' 0"	#3	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"
	HF	5' 0"	STANDARD	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"
	STANDARD	4' 11"	STANDARD	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"
	SP	4' 11"	STANDARD	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"

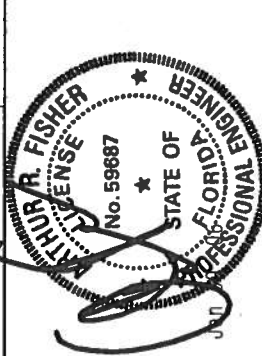


REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI CRUISES, 10000 W. 10TH AVE., SUITE 100, DENVER, CO 80231, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA



BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SPRUC-PINE-FIR	HEM-FIR
#1 / #2	STANDARD
STANDARD	STANDARD
DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	STANDARD
STANDARD	STANDARD
GROUP B:	
HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
STANDARD	#2

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TO DEAD LOAD).

CABLE 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"	2X4X4

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

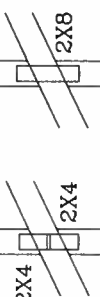
REF	ASCE7-02-CAB11015
DATE	04/15/05
DRWG	A11015EE0405
ENG	-ENG
MAX. TOT. LD.	60 PSF
MAX. SPACING	24' 0"

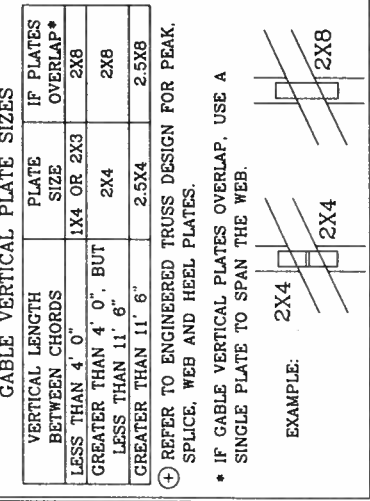
GABLE DETAIL FOR LET-IN VERTICALS

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

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

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

EXAMPLE: 



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

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

10d COMMON (0.148" X 3.1" MIN) TOENAILS AT 4" O.C. PLUS

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

GUN DRIVEN NAILS:

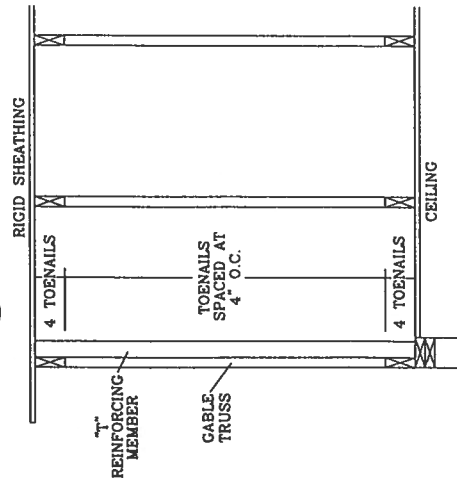
8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

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

- ASCE 7-93 GABLE DETAIL DRAWINGS
- A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
- A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
- ASCE 7-98 GABLE DETAIL DRAWINGS
- A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A09015EC1103
- A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A09030EC1103
- ASCE 7-02 GABLE DETAIL DRAWINGS
- A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A09015EE0405
- A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A09030EE0405

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

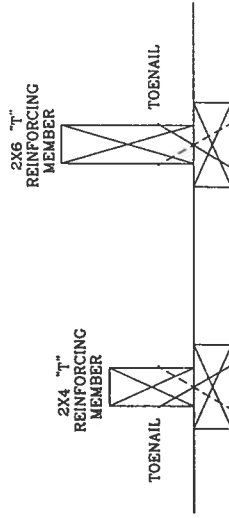


WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC511-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DONDROFF DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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.

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ALPINE ENGINEERED PRODUCTS, INC.
POMPANOA BEACH, FLORIDA



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"

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"

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
2X3 OR 2X4	1 ROW	2X4
	2 ROWS	2X6
2X6	1 ROW	2X4
	2 ROWS	2X6
2X8	1 ROW	2X6
	2 ROWS	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.

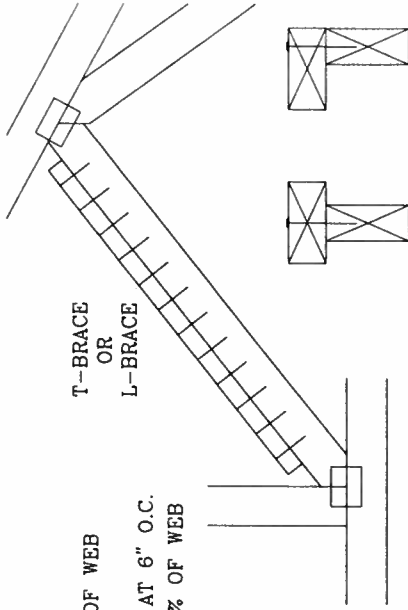
T-BRACING

OR

L-BRACING:

APPLY TO EITHER SIDE OF WEB
NARROW FACE

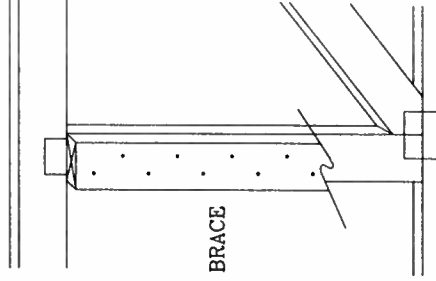
ATTACH WITH 16d NAILS AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB
MEMBER LENGTH



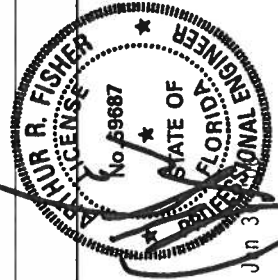
T-BRACE L-BRACE

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



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ALPINE ENGINEERED PRODUCTS, INC.
POMIPANO BEACH, FLORIDA

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRLCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

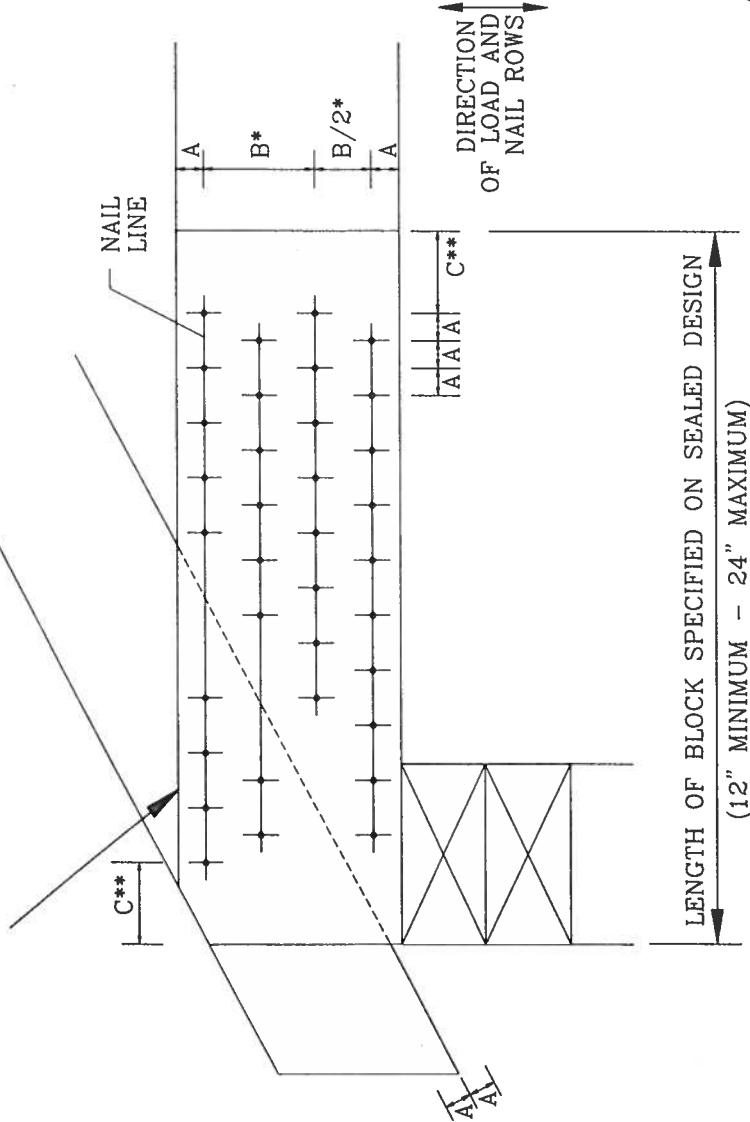
BEARING BLOCK NAIL SPACING DETAIL

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

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

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

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



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

MINIMUM NAIL SPACING DISTANCES

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

THIS DRAWING REPLACES DRAWING B139 AND CNBRGK0699

REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGK1103
-ENG	SJP/KAR

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI CRUSS PLATE INSTITUTE, 583 DUNDRIE DR., SUITE 200, MADISON, WI 53719 AND VICA (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 BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS, OR ANY FAILURE TO FOLLOW THE BRACING OF TRUSSES. THE TRUSS SHALL BE BUILT WITH THE SPECIFICATIONS OF THE NATIONAL DESIGN SPEC. BRACING OF TRUSSES. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (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 ANSI/TPI 1 SEC 2



ALPINE ENGINEERED PRODUCTS, INC.
 POMPANO BEACH, FLORIDA

PIGGYBACK DETAIL

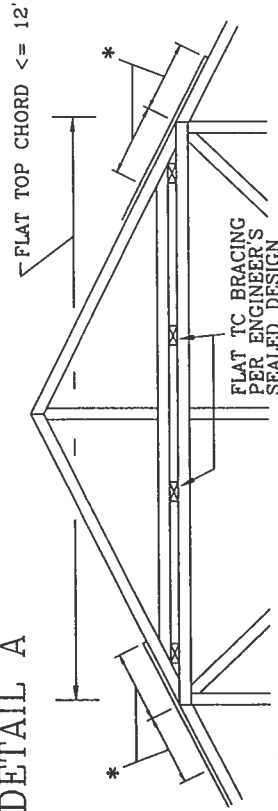
100 MPH WIND. 30.00 FT MEAN HGT. ASCE 7-02, CLOSED BLDG,
LOCATED ANYWHERE IN ROOF, CAT II, EXP C,
WIND TC DL=5.0 PSF. WIND BC DL=5.0 PSF.

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

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

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

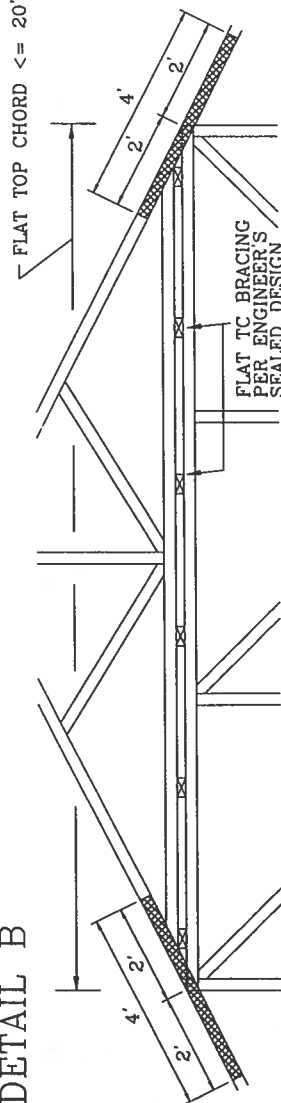
DETAIL A



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

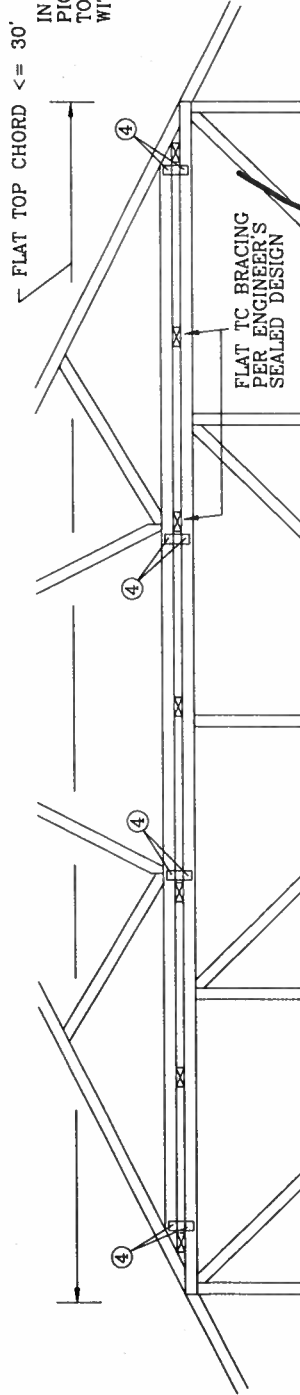
* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131" x 2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

DETAIL B



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP
CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND
SECURED WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY)
ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

DETAIL C



- FLAT TOP CHORD $\leq 30'$

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

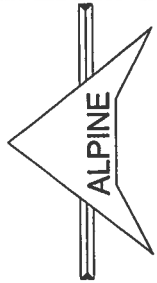
(4) 8d COMMON NAILS (0.131"X2.5")

THIS DRAWING REPLACES DRAWINGS 581.670 & 961.860

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BUILDING CODES FOR COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS & JOIST INSTITUTE) 1801 UNIVERSITY BLVD., SUITE 200, MADISON, WI 53719. AND VICA (WOOD TRUSS COUNCIL OF AMERICA) 5400 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 CLING.

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO FOLLOW THIS DESIGN, OR ANY FAILURE TO FOLLOW THE DESIGN OF THE BUILDING. THE DESIGN OF THE BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/APA 11, SET 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

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

PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

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

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG,

LOCATED ANYWHERE IN ROOF, CAT II, EXP C,

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

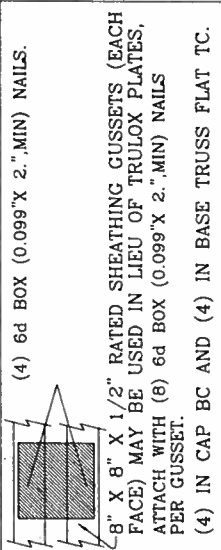
110 MPH WIND, 30' MEAN HGT, SBC

ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

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

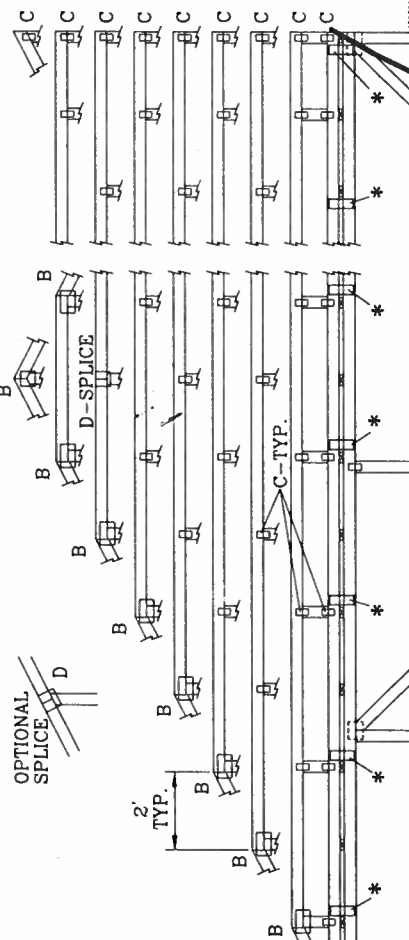
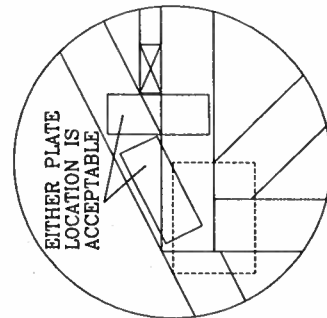
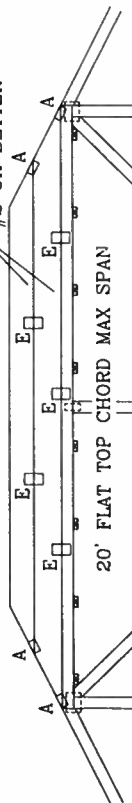
FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE

PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



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

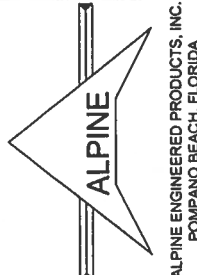
MAX SIZE OF 2X12 #2 OR BETTER



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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND VITCA (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, TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE DESIGN SPEC TO BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE, 40/60 (W/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 (I) 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



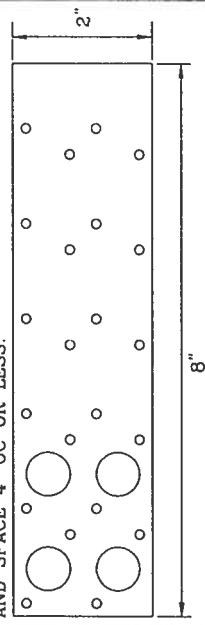
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

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

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

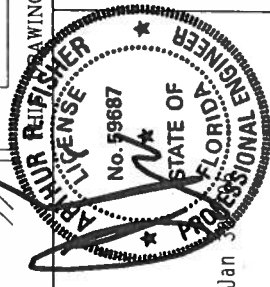
* PIGGYBACK SPECIAL PLATE

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



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

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





NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Rd.
Lake City, FL 32055
386/755-6608

17 FEB 2006

BUILDING OFFICIAL
COLUMBIA COUNTY BUILDING DEPARTMENT
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA

CASSIDY RESIDENCE
PERMIT Nr.: _____

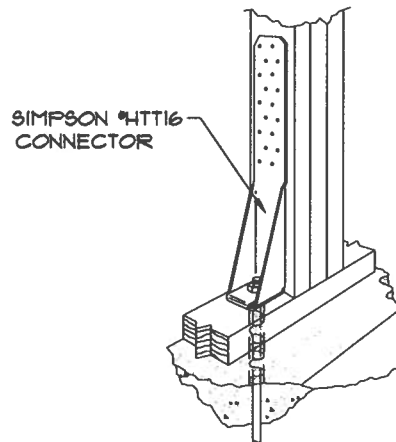
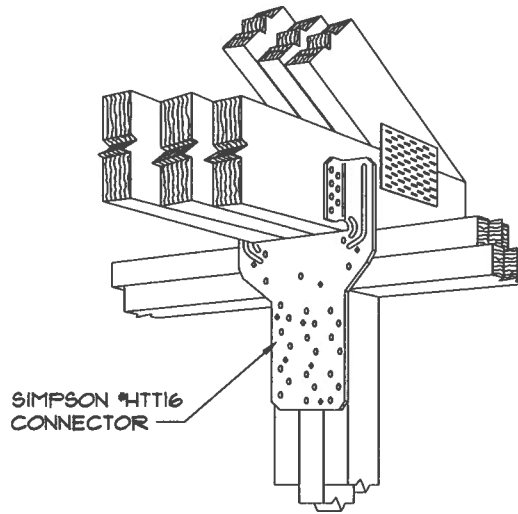
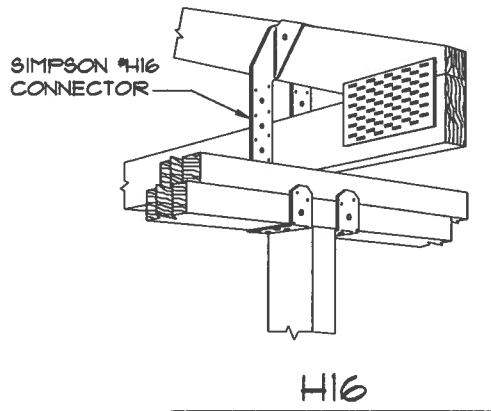
DEAR SIR:

PLEASE BE ADVISED THAT THE ARCHITECTURAL DRAWINGS SUBMITTED
FOR THE ABOVE REFERENCED PROJECT ARE IN COMPLIANCE WITH THE
2004 FLORIDA BUILDING CODE.

ALSO BE ADVISED THAT ALL TRUSS UPLIFT CONNECTORS SHALL BE
SIMPSON 'H16' CONNECTORS AT EACH END, EXCEPT FOR GIRDER AND
HOLDDOWN CONNECTORS SPECIFIED ON ATTACHMENT 'A'.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE DO NOT HESITATE TO
CALL FOR ANY ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005



[Handwritten signature]
17 AUG 2016 ARUC07005
ATTACHMENT 'A'

** LAMAR BOOZER **
 900 EAST PUTNAM STREET
 LAKE CITY, FL 32055

PROJECT: CUSTOM
 CLIENT: SC OTT CASIDY
 DATE: 1 23 06

RESIDENTIAL/LIGHT COMMERCIAL HVAC LOADS

DESIGNER: LAMAR BOOZER

CLIENT INFORMATION:

NAME: SC OTT CASIDY
 ADDRESS:
 CITY, STATE: LAKE CITY, FLORIDA 32055

TOTAL BUILDING LOADS:

BLDG. LOAD DESCRIPTIONS	AREA QUAN	SEN. LOSS	LAT. + GAIN	SEN. = GAIN	TOTAL GAIN
3-F WINDOW DBL PN LOW EMIT METL FR	111	2,374	0	7,172	7,172
8-O GLS DOOR DBL CLR GLS METL FR	40	1,305	0	2,928	2,928
12-F WALL R-11 + 1" BEAD BRD(R-3.6)	1,172	3,690	0	2,183	2,183
11-C DOOR METAL POLYSTYRENE CORE	37	783	0	463	463
16-G CEILING R-30 INSULATION	2,525	1,700	0	1,774	1,774
22-A SLAB ON GRADE NO EDGE INSUL	170	6,197	0	0	0
SUBTOTALS FOR STRUCTURE:		4,055	16,049	0	14,520
PEOPLE	18	0	0	5,400	5,400
APPLIANCES	0	0	1,800	1,500	3,300
DUCTWORK	0	802	0	2,143	2,143
INFILTRATION W.CFM: 0.0 S.CFM: 0.0	0	0	0	0	0
VENTILATION W.CFM: 0.0 S.CFM: 0.0	0	0	0	0	0
SENSIBLE GAIN TOTAL				23,563	
TEMP. SWING MULTIPLIER				X 1.00	
BUILDING LOAD TOTALS		16,851	1,800	23,563	25,363

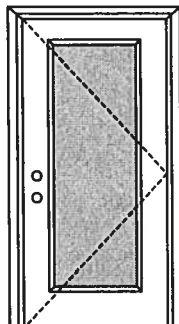
SUPPLY CFM AT 20 DEG DT: 1,071 CFM PER SQUARE FOOT: 0.936
 SQUARE FT. OF ROOM AREA: 2,525 SQUARE FOOT PER TON: 541.261

TOTAL HEATING REQUIRED WITH OUTSIDE AIR: 16.851 MBH
 TOTAL COOLING REQUIRED WITH OUTSIDE AIR: 4.114 TONS

CALCULATIONS ARE BASED ON 7TH EDITION OF ACCA MANUAL J.
 ALL COMPUTED RESULTS ARE ESTIMATES AS BUILDING USE AND WEATHER MAY VARY.
 BE SURE TO SELECT A UNIT THAT MEETS BOTH SENSIBLE AND LATENT LOADS.

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.itswh.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:



100 Series



133, 135 Series



136 Series



680 Series



822 Series

1/2 GLASS:



105 Series*



106, 160 Series*



129 Series*



200 Series*



12 R/L, 23 R/L, 24 R/L Series*



107 Series*



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson
EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from

Masonite
Masonite International Corporation

X

Glazed Inswing Unit

COP-WL-JH4141-02

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:****3/4 GLASS:**

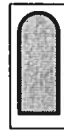
404 Series



410 Series



450 Series

FULL GLASS:

109 Series

114, 120, 122
Series

152 Series



149 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etsenrko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

2

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June 17, 2002
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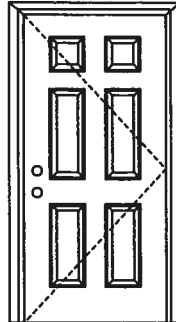
Exclusively from

Masonite®
Masonite International Corporation

X

Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:****Note:**

Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.itsmko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door

Maximum unit size = 3'0" x 6'8"

Design Pressure

+66.0/-66.0

limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

Flush



Arch Top 3-panel



3-panel



6-panel



New England 4-panel



Eyebrow 4-panel



8-panel



9-panel



15-panel



5-panel



5-panel with scroll



Eyebrow 5-panel



Eyebrow 5-panel with scroll

Johnson™
EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from

Masonite®

Masonite International Corporation

X

Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).



State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etsamko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

2

Johnson
EntrySystems™

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

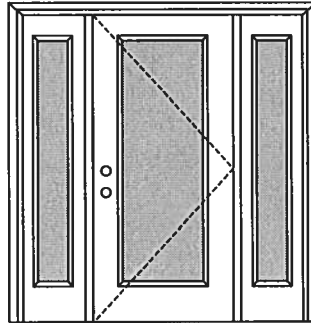


Exclusively from

Masonite®
Masonite International Corporation

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Single Door with 2 Sidelites
Maximum unit size = 9'0" x 6'8"

Design Pressure
+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.itsmko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:

Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0004-02 or MAD-WL-MA0007-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0004-02.

APPROVED DOOR STYLES:

1/4 GLASS:



100 Series



133, 135 Series



136 Series



680 Series

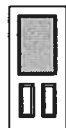


822 Series

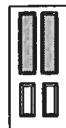
1/2 GLASS:



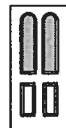
105 Series*



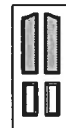
106, 160 Series*



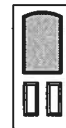
129 Series*



200 Series*



12 R/L, 23 R/L, 24 R/L Series*



107 Series*



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:



404 Series

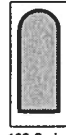


410 Series

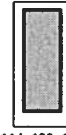


450 Series

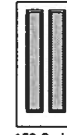
FULL GLASS:



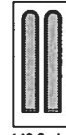
109 Series



114, 120, 122
Series



152 Series



149 Series



300 Series

APPROVED SIDELITE STYLES:



680 Series



129 Series



200 Series



12R, 12L, 23R,
23L, 24R, 24L
Series



450 Series



152 Series



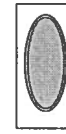
149 Series



109 Series



120, 122 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab and sidelite panels glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.itssemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Johnson
EntrySystems™

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from

Masonite International Corporation



**AAMA/NWWDA 101/L.S.2-97
TEST REPORT**

Rendered to:

MI HOME PRODUCTS, INC.

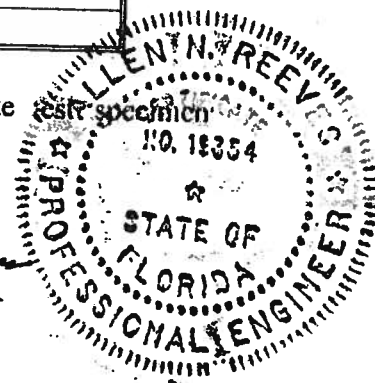
SERIES/MODEL: 650

TYPE: Aluminum Triple Single Hung Window

Title of Test	Summary of Results
AAMA Rating	H-R35 112 x 72
Uniform Load Deflection Test Pressure	+35.3 psf -47.2 psf
Operating Force	25 lb max.
Air Infiltration	0.16 cfm/ft ²
Water Resistance Test Pressure	5.25 psf
Uniform Load Structural Test Pressure	+53.0 psf -52.5 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 01-41641.01 for complete test specimen description and data.

Allen N. Reeves
7 JUNE 2002





Test Specimen Description: (Continued)

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

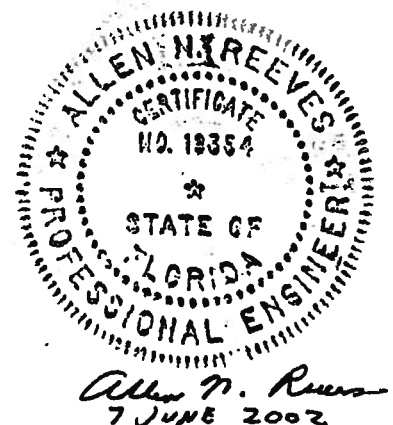
Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.230" high by 0.270" backed polypile with center fin	Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" by 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. The meeting rail was secured to the frame utilizing two 1-1/4" screws. The mullions were secured utilizing four #8 x 1-1/4" screws through the head and sill into the mullion screw boss.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each stiles' screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.



Test Specimen Description: (Continued)

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal cam lock with keeper	1	Midspan of each active meeting rail with adjacent keepers
Plastic tilt latch	2	Each active sash meeting rail ends
Metal tilt pin	2	Each active sash bottom rail ends
Balance assembly	2	Each active sash contained one in each jamb
Screen plunger	2	Each screen contained two 4" from rail ends on top rail

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.1	Operating Force	25 lbs	30 lbs max.
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.16 cfm/ft ²	0.3 cfm/ft ² max.

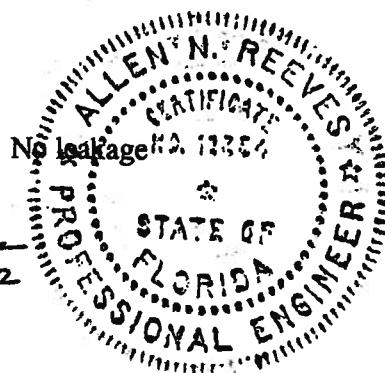
Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

Water Resistance (ASTM E 547-00)
(with and without screen)
WTP = 2.86 psf

No leakage

No leakage

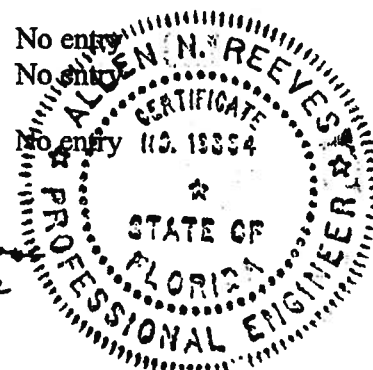
Allen N. Reeves
7 JUNE 2002



Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds) @ 15.0 psf (positive) @ 15.0 psf (negative)	0.15" 0.29"	0.41" max. 0.41" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds) @ 22.5 psf (positive) @ 22.5 psf (negative)	0.01" 0.01"	0.29" max. 0.29" max.
2.2 .6.2	Deglazing Test (ASTM E 987-88) In operating direction at 70 lbs Right sash, meeting rail Right sash, bottom rail Middle sash, meeting rail Middle sash, bottom rail Left sash, meeting rail Left sash, bottom rail In remaining direction at 50 lbs Right sash, right stile Right sash, left stile Middle sash, right stile Middle sash, left stile Left sash, right stile Left sash, left stile	0.12"/25% 0.12"/25% 0.12"/25% 0.12"/25% 0.12"/25% 0.12"/25% 0.06"/12% 0.06"/12% 0.06"/12% 0.06"/12% 0.06"/12% 0.06"/12%	0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100%
2 .8	Forced Entry Resistance (ASTM F 588-97) Type: A Grade: 10 Lock Manipulation Test Test A1 through A5 Test A7 Lock Manipulation Test	No entry No entry No entry No entry	No entry No entry No entry No entry

Allen N. Reeves
7 JUNE 2002





Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Optional Performance</u>			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 5.25 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds)		
	@ 35.3 psf (positive)	0.46"*	0.41" max
	@ 47.2 psf (negative)	0.67"*	0.41" max

**Exceeds L/175 for deflection, but meets all other test requirements.*

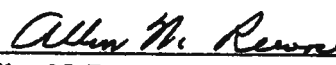
Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds)		
@ 53.0 psf (positive)	0.03"	0.29" max
@ 52.5 psf (negative)	0.02"	0.29" max

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:


Mark A. Hess
Technician

MAH:nlb
01-41641.01


Allen N. Reeves, P.E.
Director - Engineering Services
7 JUNE 2002





**AAMA/NWDA 101/LS-2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin

TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

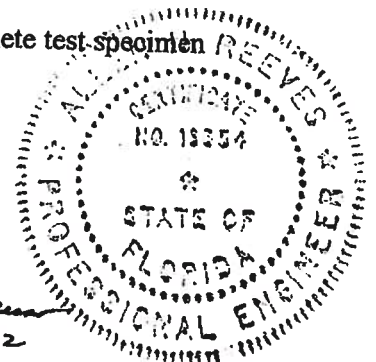
Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.


Mark A. Hess, Technician

MAH:nlb


1 APRIL 2002





Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

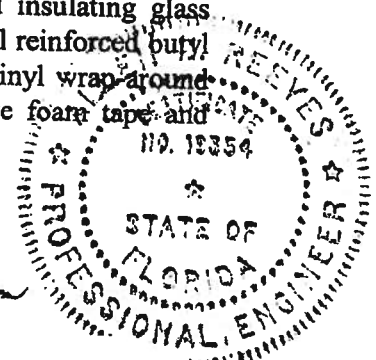
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen M. Reeves
1 APRIL 2002





Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

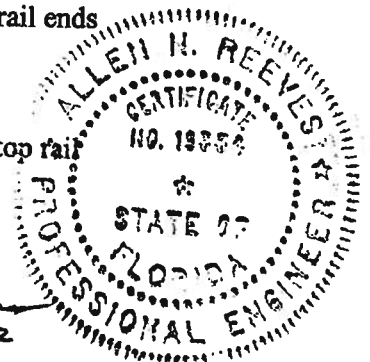
Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal cam lock with keeper		Midspace, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

Allen H. Reeves
1 APRIL 2002





Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

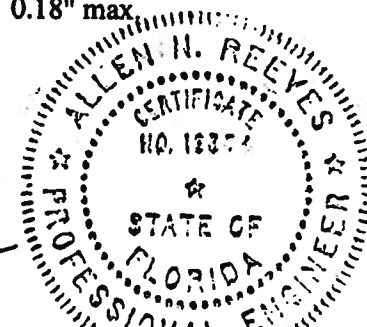
The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max
	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42"* 0.43"*	0.26" max. 0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.
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Allen N. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

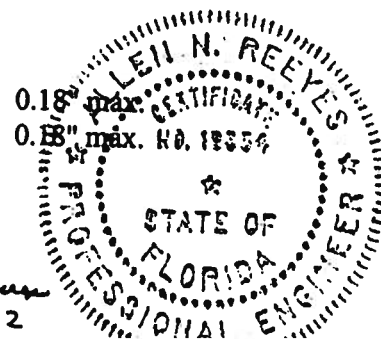
Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"	0.26" max.
	@ 47.2 psf (negative)	0.46"	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)	
@ 67.5 psf (positive)	0.05"
@ 70.8 psf (negative)	0.05"

Allen N. Reeves
1 APRIL 2002





Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:



Mark A. Hess
Technician

MAH:nlb
01-41134.01



Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002



IMPORTANT INFORMATION & GENERAL NOTES

SIMPSON
Strong-Tie

IES

we a feature in our catalog tables—a "Quick-Code" Reference column.

column allows users to quickly locate which products have code listings and which agency has issued the report. We've added this feature to our catalog to help our users easily access the information they need regarding our products. Over the years, number of products we offer has greatly increased, and the number of code reports we have also increased. At the same time, there have been many changes over the in the code agencies themselves. All of these factors have made it increasingly difficult for our customers to determine which codes apply to various products.

Quick-Code reference column, used in conjunction with the chart at right, allows users to easily see which code listing applies to a product. The reference numbers also identify:

- Products submitted for code listing (180)
- Products with no code listing (170)
- Products not submitted because they have no load rating and a code listing is not necessary (160)
- Products which meet prescriptive code requirements (190)

If a model has been submitted for listing (160) or does not have a code listing (170), user can supply complete test data to support our published loads. Please contact a copy of our product test documentation at (800) 925-5099. Product acceptance is obtained through the Alternate Methods and Materials section of the applicable code.

Loads and applications may not be covered and specific reductions and options may be required by other code agencies. Call Simpson Strong-Tie or the code agencies' web sites for the current evaluation reports.

ICC Strong-Tie® connectors are recognized by most code agencies. Agencies that use some or all of our products include ICC-ES (formerly ICBO, BOCA, SBCCI); the City of Los Angeles, California; State of Wisconsin; and State of Florida. The allowable in this catalog comply with the 2001 National Design Specifications.

In October 2002, Members of BOCA, ICBO and SBCCI voted to consolidate services, and operations into one member service organization—the International Code Council (ICC). Existing code reports and new code reports will be recognized under the ICC organization. Please contact the ICC at www.icc-es.org for more information.

In August 2004 the Department of State Architecture, California, issued a revised IR 23-1, revised Interpretation of Regulation addresses and clarifies issues relating to Pre-fabricated Wood Construction Connectors. IR 23-1 defines the Purpose and Scope and clarifying Requirements, Acceptable Load Capacities, Design Requirements, Installation Requirements and Connector Fabrication which addresses corrosion-resistant material coatings. Please contact the DSA at www.dsa.ca.gov/Publications/Interim.htm

CODE LISTING KEY CHART

AGENCY	CODE LISTING	CODE REF.	AGENCY	CODE LISTING	CODE REF.
ICC-ES (OLD NER)	209	1	City of Los Angeles, California	RR 22088	80
	393	2		RR 24682	81
	413	3		RR 24818	82
	421	4		RR 24947	83
	422	5		RR 24949	84
	432	6		RR 25084	85
	443	7		RR 25074	86
	469	8		RR 25076	87
	489	9		RR 26119	88
	694	10		RR 26120	89
ICC-ES (OLD ICBO)	1058	19	State of Florida	RR 25149	90
	1211	20		RR 25158	91
	3691	21		RR 25185	92
	4546	22		RR 25836	93
	4935	23		RR 26248	94
	4945	24		RR 26279	95
	5090	25		RR 25281	96
	5117	26		RR 25293	97
	5268	27		RR 26300	98
	5275	28		RR 26318	99
ICC-ES (OLD SBCCI)	5279	29		RR 25388	100
	5313	30		RR 25427	101
	5328	31		RR 25459	102
	5349	32		RR 25469	103
	5357	33		RR 25489	104
	5486	34		RR 25528	105
	5597	35		RR 25540	106
	5658	36		RR 25552	107
	5658	37		RR 25588	108
	5672	38	State of Wisconsin	FL402	120
ICC-ES (OLD BOCA)	5708	39		FL474	121
	5708	40		FL503	122
	5781	41		FL538	123
	5824	42		FL1218	124
	5838	43		FL1423	125
	5838	44		FL1468	126
	5838	45		FL1725	127
	5838	46		FL1901	128
	5838	47		FL2381	129
	5838	48		FL2304	130
ICC-ES (OLD SBCCI)	94145	81		FL2395	131
	9603C	82		FL2822	132
	9706	83	SA DSA	200043-N	140
	9706	84		PA-110	150
	9706	85		Submitted for Listing	Call us for Status and Test Data
	9706	86		No Code Listing	Call us for Test Data
	9706	87		No Load Rating	—
	9706	88		Prescriptive Code	—
	9706	89		—	180
	9706	90		—	190
	9706	91		—	190
	9706	92		—	190

pg-10
Simpson
Book
PLI's

FL#4

FL 125
H 16 S
SPH 4
FF 123

MS & CONDITIONS OF SALE

DUCT USE

Products in this catalog are designed and manufactured for the specific purposes shown. Should not be used with other connectors not approved by a qualified designer. Modifications to products or changes in installation procedures should only be made by a qualified designer. The performance of such modified products or altered installation procedures is the sole responsibility of the designer.

WARRANTY

For users or designers modifying products or installation procedures, or designing catalog products for fabrication by Simpson Strong-Tie Co., Inc. shall, regardless of the instructions to the user, indemnify, defend, and hold harmless Simpson Strong-Tie Co. for any and all claimed loss or damage occasioned in whole or in part by non-compliance with or modified products.

CATALOG AND MODIFIED PRODUCTS

Suit Simpson Strong-Tie Co., Inc. for applications for which there is no catalog entry, or for connectors for use in hostile environments, with excessive wood shrinkage, abnormal loading or erection requirements.

Catalog products must be designed by the customer and will be fabricated by Simpson Strong-Tie in accordance with customer specifications.

Simpson Strong-Tie cannot and does not make any representations regarding the safety of use or load-carrying capacities of non-catalog products. Simpson Strong-Tie makes no warranty, express or implied, on non-catalog products. F.O.B. Shipping Point unless otherwise specified.

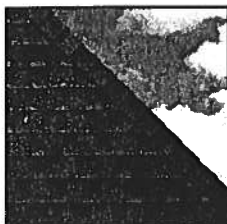
* As of the printing of this catalog, products coded 180 have been submitted and are awaiting issuance from the respective code agency. Because code reports can be issued throughout the year, we encourage the user to visit www.simpsonstrongtie.com, www.icc-es.org, www.fda.org, www.dsa.ca.gov, and www.floridabuilding.org for the most current information, call Simpson at 800-999-5099, or contact the code agency directly.

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**ELK**

ROOFING PRODUCTS SPECIFICATIONS — TUSCALOOSA, AL

**PRESTIQUE®
HIGH DEFINITION®****RAISED PROFILE®****Prestique Plus High Definition
and Prestique Gallery Collection****

Product size _____ 13K"x 39K"
 Exposure _____ 5K"
 Pieces/Bundle _____ 16
 Bundles/Square _____ 4/98.5 sq.ft.
 Squares/Pallet _____ 11

50-year limited warranty period:
 5-7**years non-prorated coverage for
 shingles and application labor with
 prorated coverage for remainder of
 limited warranty period, plus an
 option for transferability*. 5-year
 limited wind warranty*. Wind
 Coverage: standard 80 mph, extended
 110 mph***

Raised Profile

Product size _____ 13K"x 38K"
 Exposure _____ 5K"
 Pieces/Bundle _____ 22
 Bundles/Square _____ 3/100 sq.ft.
 Squares/Pallet _____ 16

30-year limited warranty period:
 5-7**years non-prorated coverage for
 shingles and application labor with
 prorated coverage for remainder of
 limited warranty period, plus an
 option for transferability*. 5-year
 limited wind warranty*. Wind
 Coverage: standard 70 mph.

Prestique I High Definition

Product size _____ 13K"x 39K"
 Exposure _____ 5K"
 Pieces/Bundle _____ 16
 Bundles/Square _____ 4/98.5 sq.ft.
 Squares/Pallet _____ 14

40-year limited warranty period:
 5-7**years non-prorated coverage for
 shingles and application labor with
 prorated coverage for remainder of
 limited warranty period, plus an
 option for transferability*. 5-year
 limited wind warranty*. Wind
 Coverage: standard 80 mph, extended
 90 mph***

HIP AND RIDGE SHINGLES**Seal-A-Ridge® w/FLX™**

Size: 12"x 12"
 Exposure: 6K"
 Pieces/Bundle: 45
 Coverage: 4 Bundles =
 100 linear feet

Vented RidgeCrest™ w/FLX™

Size: 13"x 13K"
 Exposure: 9K"
 Pieces/Box: 26
 Coverage: 5 boxes =
 100 linear feet

Prestique High Definition

Product size _____ 13K"x 38K"
 Exposure _____ 5K"
 Pieces/Bundle _____ 22
 Bundles/Square _____ 3/100 sq.ft.
 Squares/Pallet _____ 16

30-year limited warranty period:
 5-7**years non-prorated coverage for
 shingles and application labor with
 prorated coverage for remainder of
 limited warranty period, plus an
 option for transferability*. 5-year
 limited wind warranty*. Wind
 Coverage: standard 80 mph.

Elk Starter Strip

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

Available Colors (Check Availability): Antique Slate, Weatheredwood, Shakeswood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandshwood.
 Gallery Collection: Balsam Forest®, Weathered Sage®, Sienna Sunset®.

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

Check for availability with built-in StainGuard™ treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae.

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

All Prestique and Raised Profile shingles have approval from the Florida Building Code Commission, Metro-Dade County, ICBO, and Texas Department of Insurance.

*See actual limited warranty for conditions and limitations.

**Effective January 1, 2004, the seven year non-prorated Umbrella Coverage Period applies only when a full Elk Roof System is installed with the original installation of the Elk shingles, all in accordance with Elk's application instructions for such products. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and ridges, Elk Starter Strip along all rake and eave edges, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment in all valleys. Additionally, Elk All-Climate Self-Adhering Underlayment is required along the rake and eave edges of the roof in and north of the states of VA, KY, MD, IL, IN, OH, UT, WY, & OR.

***For a limited Wind Warranty up to 110 mph for Prestique Gallery Collection, Prestique Plus, or 90 mph for Prestique I or Grande, at least six (6) properly placed NAILS and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

SPECIFICATIONS

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

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

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

Materials: Underlayment for standard roof slopes, 4" per foot (101.8/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For Low slopes[4" per foot (101.8/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)], use two plies of underlayment, overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

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

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

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

**SOUTHEAST &
ATLANTIC OFFICE:**
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

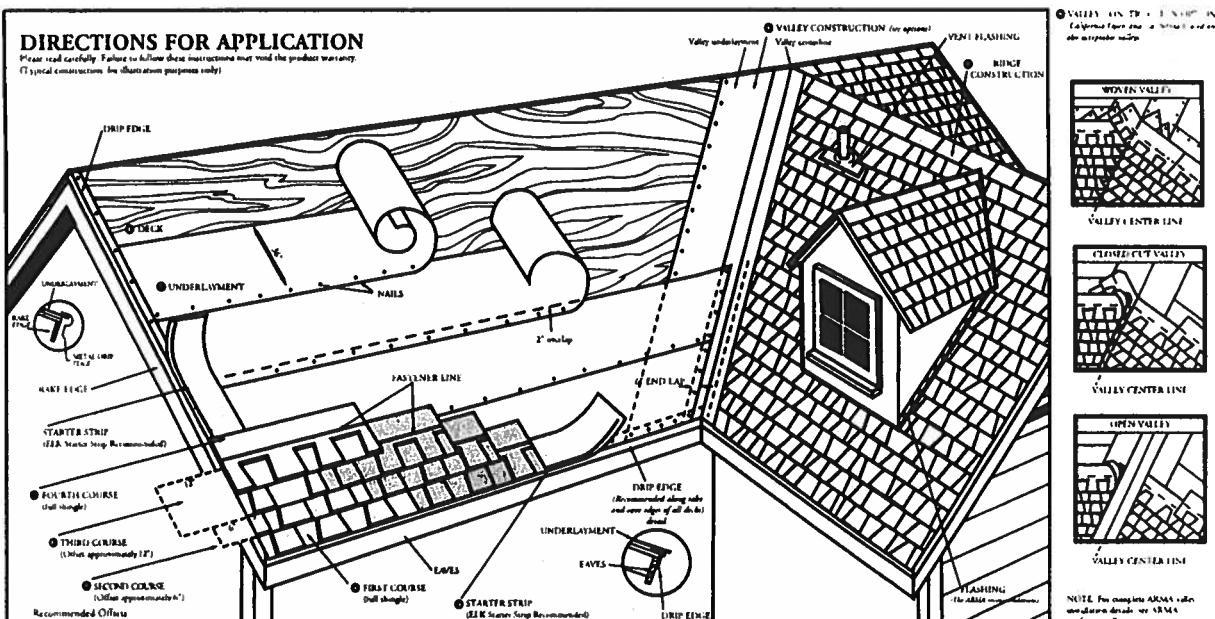
PLANT LOCATION:
800.945.5545

ELK
The Premium Choice®
www.elkcorp.com

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DIRECTIONS FOR APPLICATION

Please read carefully. Failure to follow these instructions may void the product warranty.
(Typical construction for illustration purposes only)



DIRECTIONS FOR APPLICATION

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

DECK PREPARATION

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

UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt, Elk Versashield® or self adhering underlayment is also acceptable. Cover drip edge at eaves only.

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

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

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

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

Consult the Elk Technical Services Department for application specifications over other decks and other slopes.

STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 3" trimmed from the end of the first shingle, start at the rake edge overhanging the eave and rake edges 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof.

SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 6". Other offsets are approved if greater than 4".

THIRD COURSE

Offset the next course by 6" with respect to the second course, or consistent with the original offset.

FOURTH COURSE

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

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof. Offsets may be adjusted around valleys and penetrations.

VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

RIDGE CONSTRUCTION

For ridge construction Elk recommends Class "A" Z-Ridge or Seal-A-Ridge® with formula FLX™ or RidgeCrest® with FLX (See ridge package for installation instructions). Vented RidgeCrest or 3-tab shingles are also approved.

FASTENERS

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

Using the fastener line as a reference, nail or staple the shingle in the double thickness common bond area. For shingles without a fastener line, nails or staples must be placed between and/or in the sealant dots.

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

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

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

MANSARD APPLICATIONS

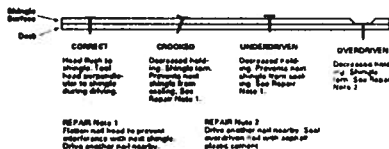
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only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

LIMITED WIND WARRANTY

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

HELP STOP BLOW-OFFS AND CALL-BACKS

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



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.

All Prestique and Raised Profile shingles have a UL® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

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



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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

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

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☒	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	<u>Site Plan including:</u> a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☐	☐	<u>Wind-load Engineering Summary, calculations and any details required</u> Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, I_w, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m^2) to be used for the design of exterior component and cladding materials not speciffally designed by the registered design professional.
☒	☐	<u>Elevations including:</u> a) All sides b) Roof pitch c) Overhang dimensions and detail with attic ventilation
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☒	☐	d) Location, size and height above roof of chimneys.
☐	☐	e) Location and size of skylights
☒	☐	f) Building height
☒	☐	e) Number of stories
		<u>Floor Plan including:</u>
☒	☐	a) Rooms labeled and dimensioned.
☒	☐	b) Shear walls identified.
☐	☐	c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 (see attach forms).
☒	☐	d) Show safety glazing of glass, where required by code.
☒	☐	e) Identify egress windows in bedrooms, and size.
☐	☐	f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, (Please circle applicable type).
☐	☐	g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☒	☐	h) Must show and identify accessibility requirements (accessible bathroom)
		<u>Foundation Plan including:</u>
☒	☐	a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.
☒	☐	b) All posts and/or column footing including size and reinforcing
☐	☐	c) Any special support required by soil analysis such as piling
☒	☐	d) Location of any vertical steel.
		<u>Roof System:</u>
☐	☐	a) Truss package including:
		1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
		2. Roof assembly (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
☒	☐	b) Conventional Framing Layout including:
		1. Rafter size, species and spacing
		2. Attachment to wall and uplift
		3. Ridge beam sized and valley framing and support details
		4. Roof assembly (FBC 106.1.1.2) Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
		<u>Wall Sections including:</u>
☒	☐	a) Masonry wall
		1. All materials making up wall
		2. Block size and mortar type with size and spacing of reinforcement
		3. Lintel, tie-beam sizes and reinforcement
		4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
		5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
		6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
		7. Fire resistant construction (if required)
		8. Fireproofing requirements
		9. Shoe type of termite treatment (termicide or alternative method)
		10. Slab on grade
		a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
		b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
		11. Indicate where pressure treated wood will be placed
		12. Provide insulation R value for the following:

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

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b) Wood frame wall

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

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

Floor Framing System:

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

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Plumbing Fixture layout

Electrical layout including:

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

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HVAC information

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

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

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

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

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

Location: _____

Project Name: _____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	Mas	steel	FL 18
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Capital		FL 675
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	Jaynes Hardy		FL 889
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	Woodland		FL 1814
3. Roofing Fasteners			
4. Non-structural Metal Rf			
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			

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	Tompson H-165		FL 125
2. Truss plates	SPH 4		FL 125
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			
13. Other			
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

Mack Robinson
Contractor or Contractor's Authorized Agent Signature

Mack Robinson 1/19/06
Print Name Date

Location

Permit # (FOR STAFF USE ONLY)

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR AN APPOINTMENT TIME AND DATE:

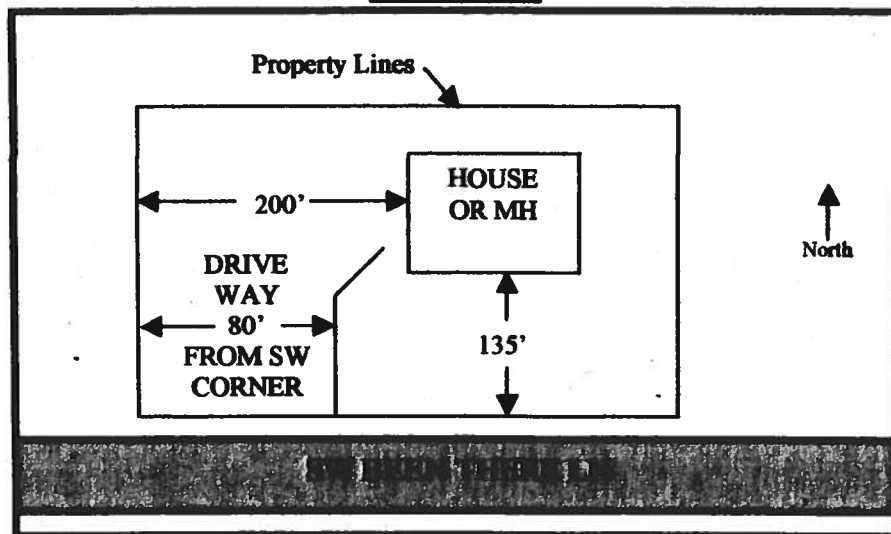
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY EMERGENCY OPERATIONS CENTER).

THE REQUESTER WILL NEED THE FOLLOWING:

1. THE PARCEL OR TAX ID NUMBER (SAMPLE: "25-4S-17-12345-123" OR "R12345-123) FOR THE PROPERTY.
2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
 - a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
 - b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
 - c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.

Gaylord Pump & Irrigation Inc.

P. O. Box 548
Branford Fl. 32008
386-935-0932 Fax 386-935-0778
Contract

DLV# _____

Date _____
Phone _____
Cell _____
Fax _____

We hereby submit contract to cover work as indicated below.

1. Drill water well up to 100 feet, and up to 84 feet of casing included in contract price. (Note volume of water is guaranteed but not quality or content of water. Customer is responsible for any filtration system required for purification of water.)
2. Steel Casing 4 inch Section _____
3. Submersible Pump 1 hp Hp Township _____
4. Galvanize Drop Pipe 1 1/4 inch Range _____
5. Tank 81-6000 Pre-charged Diaphragm/Galvanize Location _____
6. State Construction Permit (\$45.00) Property ID _____
7. Additional Supplies Needed _____

It is the purchaser responsibility to run power to the pressure switch, and also run water line from tank to where purchaser needs water, not Gaylord Pump & Irrigation

We hereby propose to furnish labor and materials as explained in this contract complete in accordance with the above specifications. For the sum of \$ 2595⁰⁰ dollars. This is for up to 100 feet of well, and up to 84 feet of casing. If well is over 100 feet there is an additional charge of \$ 10.50 per foot. If casing goes past 84 feet there is an additional charge of \$ 10.50 per foot. Contract is to be paid as follows. 50% of contract due before work starts. 50% of \$ 2595⁰⁰ is \$ 0 dollars. Balance due upon completion of job. Balance may be more than \$ 0 dollars because of well depth, or casing depth. Gaylord Pump & Irrigation Inc. reserves the right to come back on the property to repossess the pump, tank, and accessories if satisfactory payment is not met. Contract is void if well is in a delineated area.

In the event the company (Gaylord Pump & Irrigation Inc.) has to refer a past due contract or any part to an attorney or collection agency. The purchaser agrees to pay reasonable attorney fees, and all other cost of collection including court cost.

Purchaser / Agent has read this contract in its entirety and is in agreement with all terms stated above.

Purchaser / Agent

Date

GREGORY & ALLEN
OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 34-4S-16-03271-009

Building permit No. 000024158

Use Classification SFD, UTILITY

Fire: 16.52

Permit Holder MAC K ROBINSON

Waste: 24.50

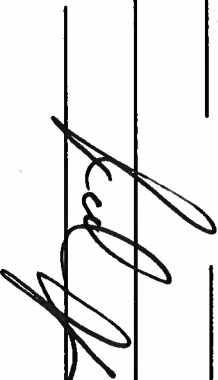
Owner of Building GREG CASSIDY & JESSICA WILSON-CASSIDY

41.02

Location: 403 SW SUNDAY GLEN, LAKE CITY, FL

Date: 08/02/2006

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ormt Len Hgt		Area X SPM X SOF = Points				
.18	2525.0	20.04	9108.2	Double, Tint	N	9.3	7.0	15.0	14.84	0.67	148.8
				Double, Tint	N	9.3	7.0	9.0	14.84	0.67	89.3
				Double, Tint	S	1.3	7.0	30.0	28.73	0.92	793.1
				Double, Tint	S	9.3	7.0	60.0	28.73	0.48	834.5
				Double, Tint	W	1.3	7.0	12.0	30.93	0.96	354.9
				Double, Tint	E	1.3	7.0	30.0	33.89	0.96	971.3
				As-Built Total:		156.0			3191.9		
WALL TYPES											
Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	11.0		2370.0		1.70		4029.0
Exterior	2370.0	1.70	4029.0								
Base Total:				2370.0		4029.0					
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	120.0	6.10	732.0	Exterior Insulated			80.0		4.10		328.0
Base Total:				120.0		732.0					
CEILING TYPES											
Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	2525.0	1.73	4368.3	Under Attic	30.0		2525.0		1.73 X 1.00		4368.3
Base Total:				2525.0		4368.3					
FLOOR TYPES											
Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	237.0(p)	-37.0	-8769.0	Slab-On-Grade Edge Insulation	1.0		237.0(p)		-39.87		-9448.4
Raised	0.0	0.00	0.0								
Base Total:				-8769.0		237.0			-9448.4		
INFILTRATION											
Area X BSPM = Points						Area X SPM = Points					
2525.0 10.21 25780.3						2525.0 10.21		25780.3			

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: ISU8487-Z0130140303

Truss Fabricator: Anderson Truss Company
Job Identification: 6-040-MACK ROBINSON - CASSIDY
Truss Count: 28
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.22.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

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

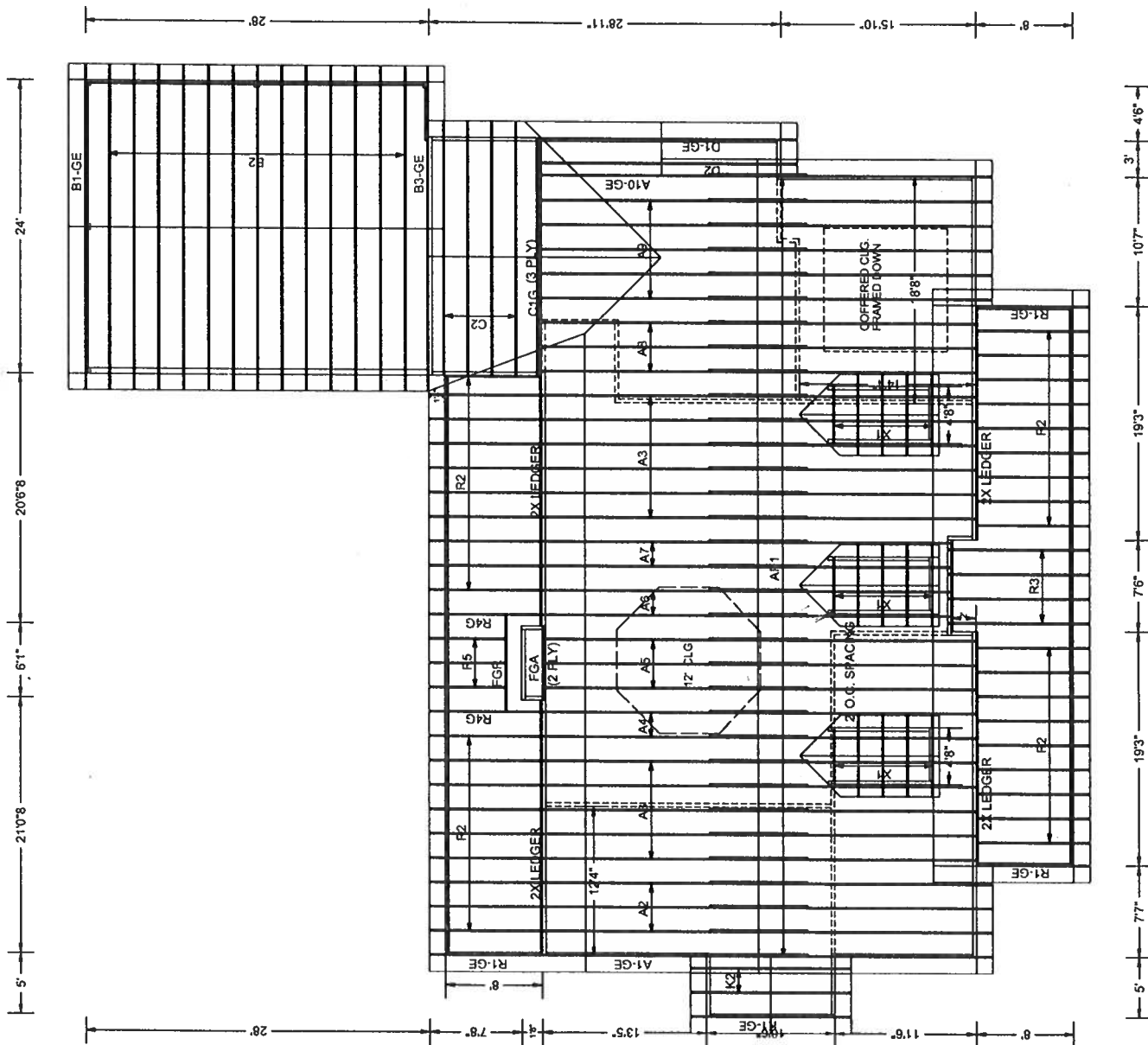
#	Ref	Description	Drawing#	Date
1	73874--A1-GE		06030001	01/30/06
2	73875--A2		06030002	01/30/06
3	73876--A3		06030003	01/30/06
4	73877--A4		06030004	01/30/06
5	73878--A5		06030005	01/30/06
6	73879--A6		06030006	01/30/06
7	73880--A7		06030007	01/30/06
8	73881--A8		06030008	01/30/06
9	73882--A9		06030009	01/30/06
10	73883--A10-GE		06030010	01/30/06
11	73884--B1-GE		06030011	01/30/06
12	73885--B2		06030012	01/30/06
13	73886--B3-GE		06030013	01/30/06
14	73887--C1G		06030014	01/30/06
15	73888--C2		06030015	01/30/06
16	73889--D1-GE		06030016	01/30/06
17	73890--D2		06030017	01/30/06
18	73891--FGA		06030018	01/30/06
19	73892--FGR		06030019	01/30/06
20	73893--K1-GE		06030020	01/30/06
21	73894--K2		06030021	01/30/06
22	73895--AP1		06030028	01/30/06
23	73896--R1-GE		06030022	01/30/06
24	73897--R2		06030023	01/30/06
25	73898--R3		06030024	01/30/06
26	73899--R4G		06030025	01/30/06
27	73900--R5		06030026	01/30/06
28	73901--X1		06030027	01/30/06

Seal Date: 01/30/2006

-Truss Design Engineer-
Arthur R. Fisher

Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844





755-2492
623-2400 cell

#6-040 MACK ROBINSON - CASSIDY

1/27/06

Top chord 2x4 SP #2 : SC1 2x4 SP #3:

Bot chord 2x4 SP #2

Web 2x4 SP #3

:Stack Chord T4 2x4 SP #2:

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.

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

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.

Gable end supports 8" max rake overhang.

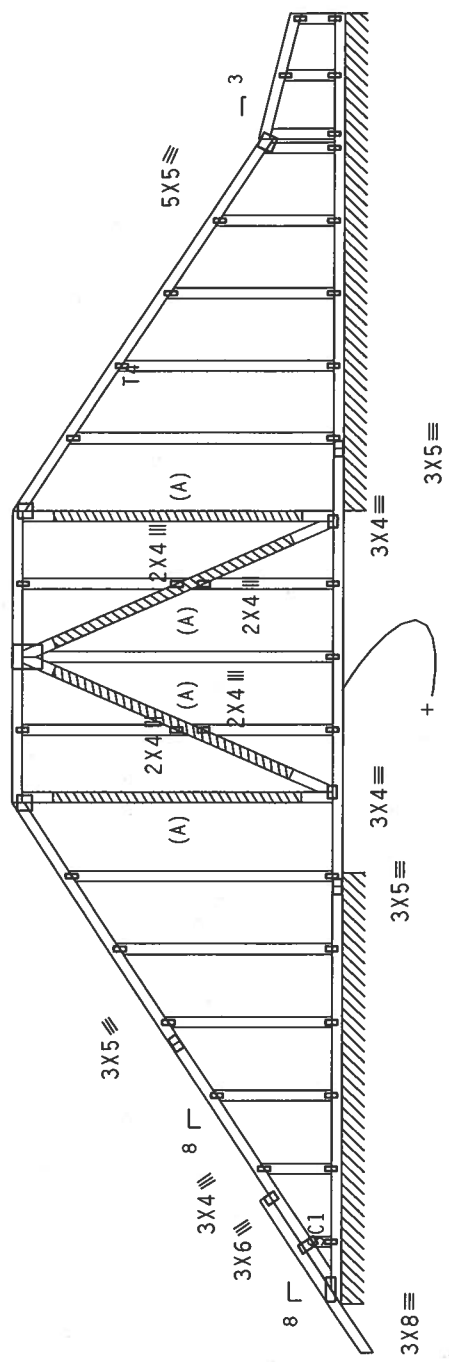
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC. In lieu of structural panels use purlins to brace all sloping TC @ 24" OC; all flat TC @ 0" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

5X5= 8X10(R) 5X5=



3X8=

1-4-0

2-11-8(NNL)

4-4-0

13-8-8

35-5-0 Over 2 Supports

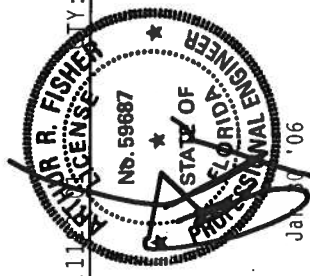
R=197 PLF U=20 PLF W=11-9-8

R=239 PLF U=13 PLF W=13-8-8

33-9-8

32-5-0

21-8-8



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR THE TRUSS PLATE INSTITUTE, 503 O'ROURTO DR., SUITE 200, MADISON, MI 48061, AND THE ALPINE TRUSS COMPANY, 10000 W. 10TH AVE., SUITE 100, DENVER, CO 80231. 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 ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/S/K) ASTM A653 GRADE 40/60 (W. K/H-S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER 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.

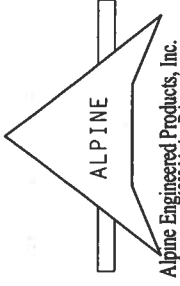
Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

7.22.11

Scale = .1875" / Ft.	REF R487-- 73874
DATE 01/30/06	DRW HCUSR487 06030001
HC-ENG TCE/AF	SEON- 73731 REV
FROM JP	JREF- 1SU8487_Z01



FL Certificate of Authorization # 567

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

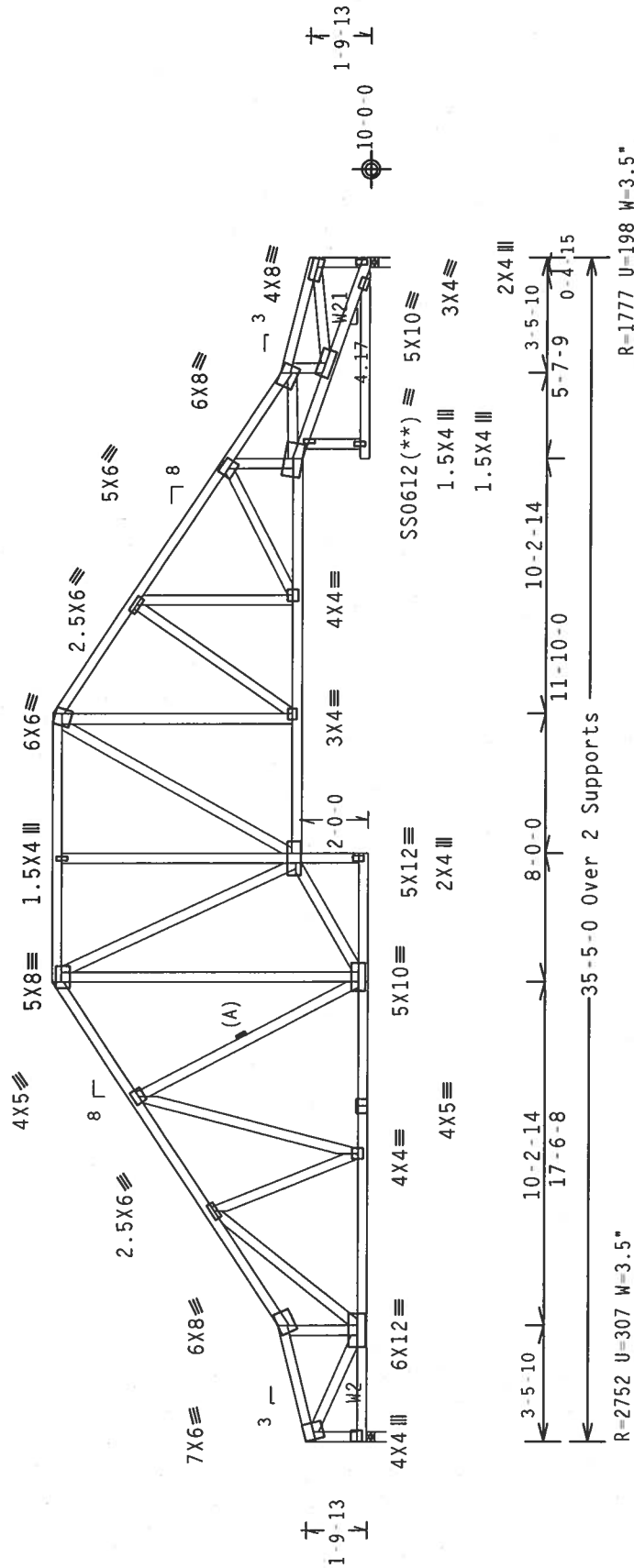
110 mph wind, 15.66 ft mean hgt. ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.13" due to live load and 0.25" due to dead load.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

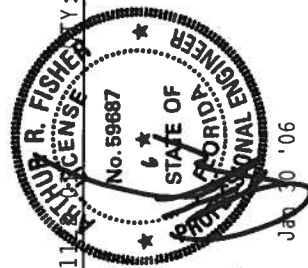
Laterally brace BC at 24" OC in lieu of rigid ceiling.
Laterally brace BC above filler at 24" OC including a
lateral brace at chord ends.



PLT TYP. 18 Gauge HS.Wave
Design Crit: TPI-2002(STD)/FBC
Ca/RT=1.00(1.25)

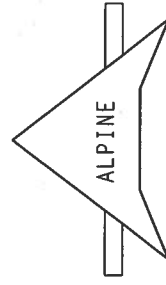
Scale = .1875"/Ft.

TC LL	20.0 PSF	REF R487-- 73877
TC DL	10.0 PSF	DATE 01/30/06
BC DL	10.0 PSF	DRW HCUR487 06030004
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 80569
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1SU8487_Z01



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 N. MONROE RD., SUITE 200, MADISON, WI 53715) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., SUITE 100, WEST VALLEY CITY, OH 44150) FOR THE LATEST RECOMMENDED 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 TOE-CLING.

****IMPORTANT****FURNISH A COPY OF THE INSTALLATION CONTRACTOR. ALPHINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. IF THE TRUSS IS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COORDINATE WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI-1. ALPHINE TRUSS COMPANY HAS NO LIABILITY TO PROVIDE ANY OTHER INFORMATION THAN THAT WHICH IS SET FORTH IN THESE PLATES TO EACH FACE OF TRUSS AND UNDERSTANDS THEREFORE IT IS THE USER'S RESPONSIBILITY TO OBTAIN ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX D 43 OF TPI-1002 SECTION 9 ON DRUGS, DRUGS 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 ANSI/TPI-1 SEC. 2.

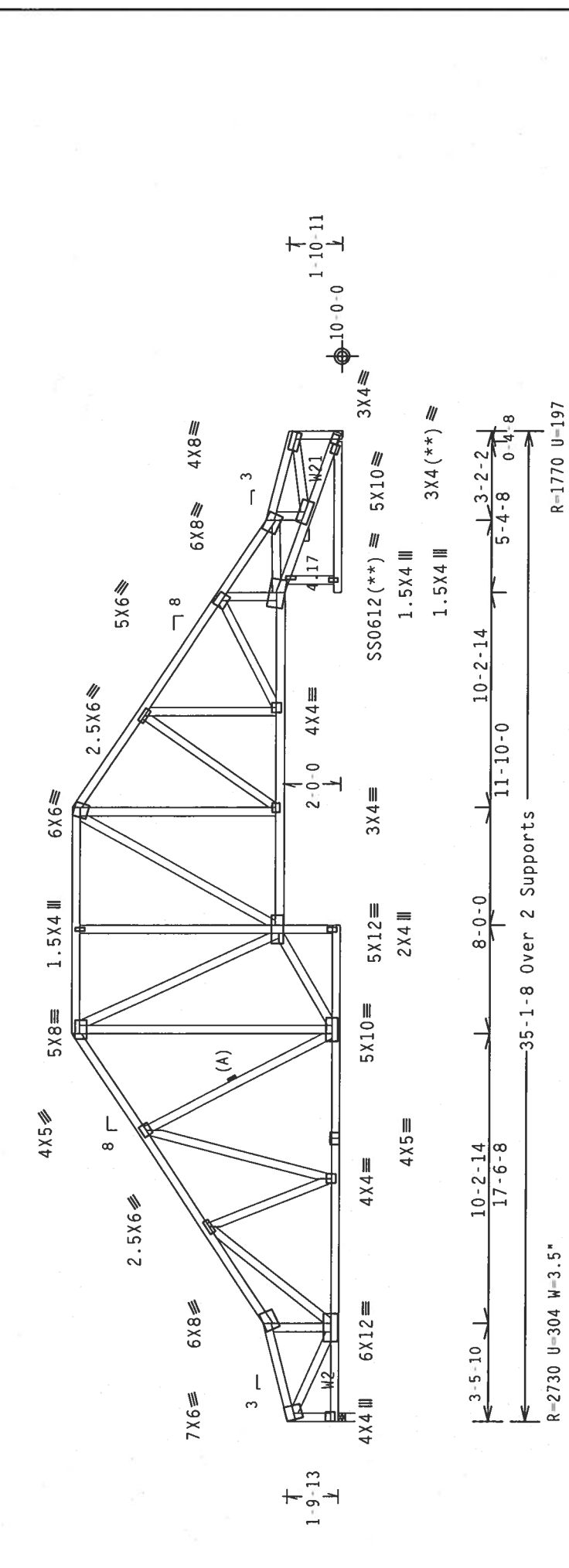


Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W2, W21 2x4 SP #2 Dense:

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at 0.00 to 61 PLF at 3.47
TC - From 271 PLF at 3.47 to 197 PLF at 11.97
TC - From 64 PLF at 11.97 to 64 PLF at 13.71
TC - From 61 PLF at 13.71 to 61 PLF at 21.71
TC - From 64 PLF at 21.71 to 64 PLF at 31.95
TC - From 61 PLF at 31.95 to 61 PLF at 35.13
BC - From 20 PLF at 0.00 to 20 PLF at 34.83
TC - 178 LB Conc. Load at 3.47

Laterally brace BC at 24" OC in lieu of rigid ceiling.
Laterally brace BC above filler at 24" OC including a lateral brace at chord ends.



PLT TYP. 18 Gauge HS.Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .1875"/Ft.

REF	DATE	DRW	HC-ENG	SEQN	FROM	JREF
R487--	73878	01/30/06	06030005	80576	JP	1SU8487_Z01

ALPINE
Engineered Products, Inc.
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 TRUSSES, PLATE INFORMATION, 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 (N.H/57A) ASH A653 GRADE 40/60 (N. K7H-S) GALV. STEEL. APPLY A MINIMUM OF 2" OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. ANY DEVIATION FROM THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEER RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
RICHARD R. FISHER
No. 59887
Jan 3, 2006

FL Certificate of Authorization # S67

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:

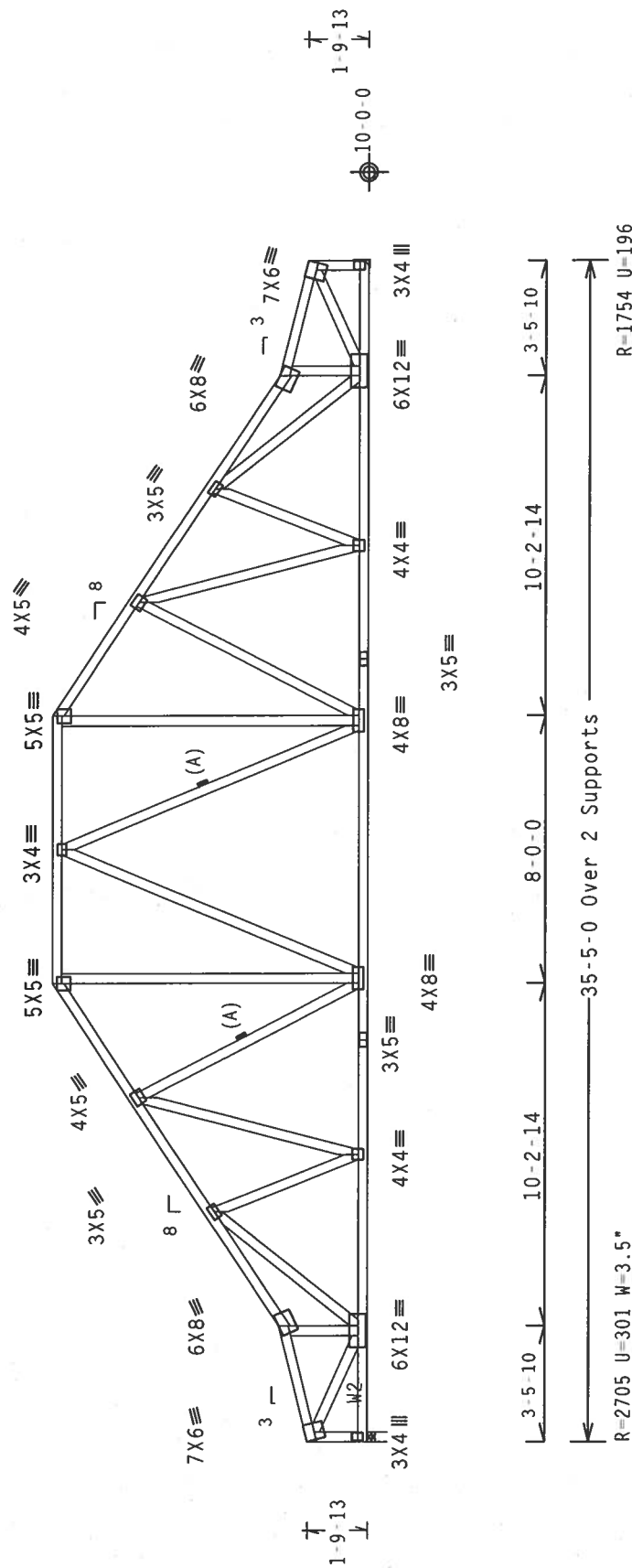
110 mph wind, 15.66 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

SPECIAL LOADS

	(LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)	
TC - From	61 PLF at 0.00 to	61 PLF at 3.47
TC - From	271 PLF at 3.47 to	197 PLF at 11.44
TC - From	64 PLF at 11.44 to	64 PLF at 13.71
TC - From	61 PLF at 13.71 to	61 PLF at 21.71
TC - From	64 PLF at 21.71 to	64 PLF at 31.95
TC - From	61 PLF at 31.95 to	61 PLF at 35.42
BC - From	20 PLF at 0.00 to	20 PLF at 35.42
TC -	178 LB Conc. Load at	3.47

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=2705 U=301 W=3.5"

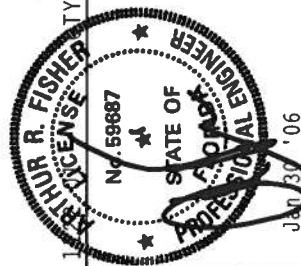
R=1754 U=196

PLT TYP. Wave

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

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487 -- 73881
TC DL	10.0 PSF	DATE	01/30/06
BC DL	10.0 PSF	DRW	HCUSR487 06030008
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	80496
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1SU8487 Z01



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (CROSS PLATE INSTITUTE, 583 WEST 10TH AVENUE, SUITE 100, DENVER, COLORADO 80202) OR 4000 WEST COUNCIL OF AMERICA, 6300 INTERSTATE IN MADISON, WISCONSIN 53719, FOR SAFETY PRACTICES FOR THE TRUSSES. UNLESS OTHERWISE INDICATED, THE 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; CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. INSTALLATION OF PLATES SHALL BE IN ACCORDANCE WITH THE FOLLOWING: ALL PLATES SHALL BE 1/2" THICK. CONNECTOR PLATES ARE MADE OF 2018/1668 (H W/2K) ASTM A663 GRADE 40/60, 1/4" K/2K. PLATES TO EACH FACE OF TRUSS AND/OR MEMBER LOCATED ON THIS DESIGN. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 43 OF TP11-2002 SEC. 10. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLE DESIGNER SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS BUILDING DESIGNER PER ANNEX/TP1 1 SEC. 2



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

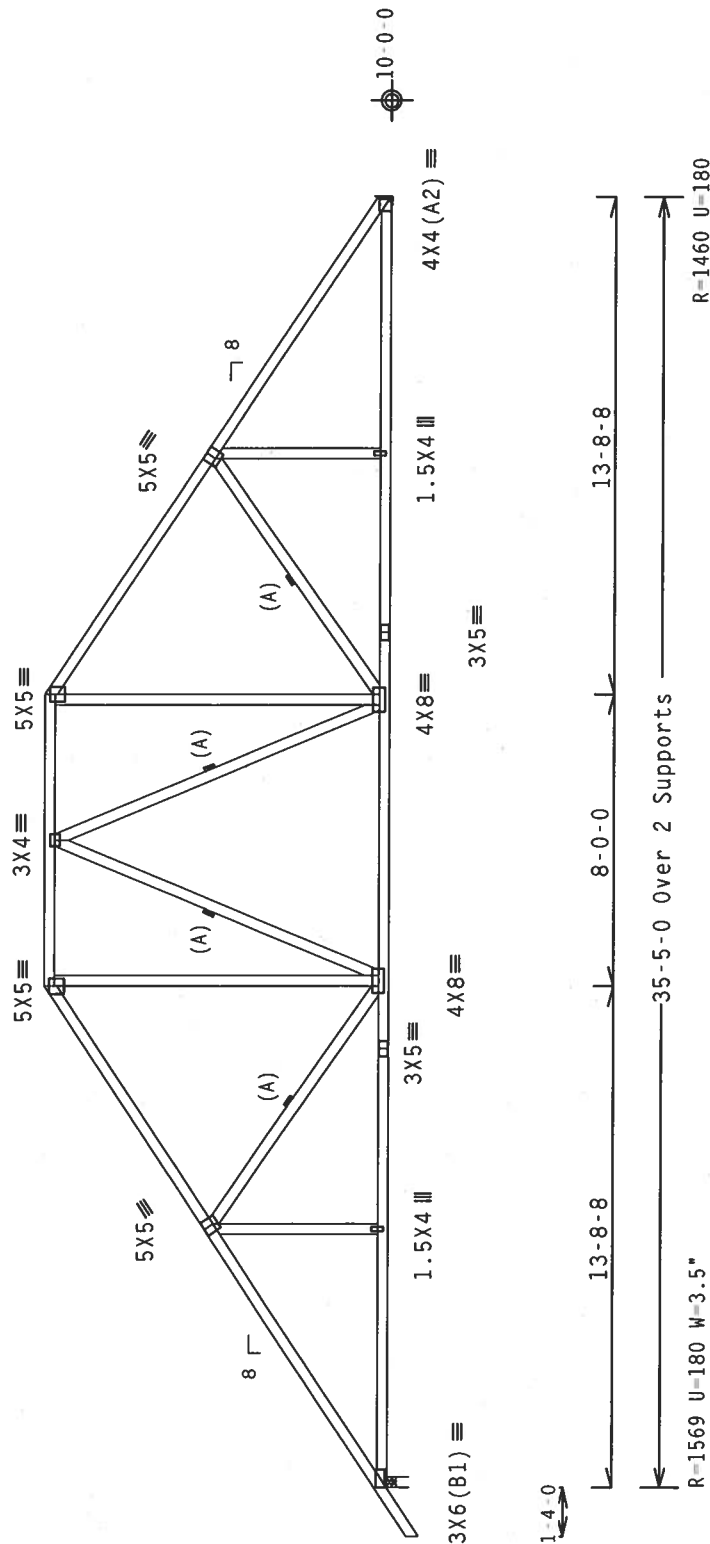
FL Certificate of Authorization # 567

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

110 mph wind, 15.00 ft mean height, 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.

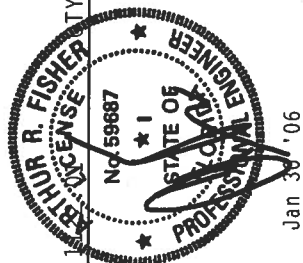
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

ABT INCENSE
TY:5 FL/-4/-/-R/-
Scale = .1875" /Ft.

TC LL	20.0	PSF	REF R487 - - 73882
TC DL	10.0	PSF	DATE 01/30/06
BC DL	10.0	PSF	DRW HCUSR487 06030009
BC LL	0.0	PSF	HC-ENG TCE/AF
TOT.LD.	40.0	PSF	SEQN- 80439
DUR.FAC.	1.25		FROM JP
SPACING	24.0"		JREF- 1SU8487_Z01



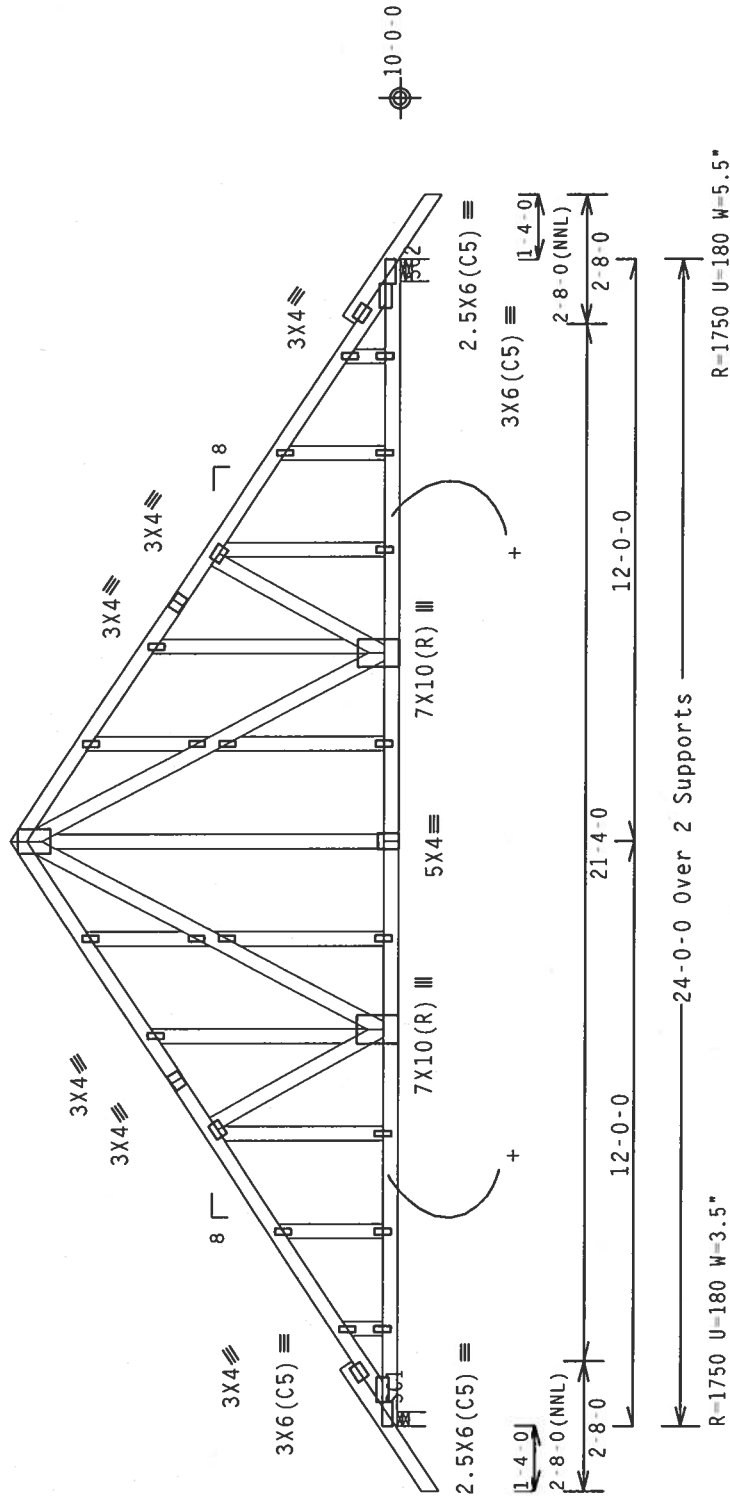
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES ARE TO BE USED IN CONJUNCTION WITH THE FOLLOWING INFORMATION: (1) TRUSS COMPANY, INC., 583 S. WILSON BLVD., SUITE 100, CHICAGO, ILL. 60608; (2) TRUSS COMPANY, INC., 6500 ENTERPRISE LN., MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, SEE THE FOLLOWING: (1) TRUSS COMPANY, INC., 583 S. WILSON BLVD., SUITE 100, CHICAGO, ILL. 60608; (2) TRUSS COMPANY, INC., 6500 ENTERPRISE LN., MADISON, WI 53719. THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALDINE ENGINEERS
STRUCTURES, 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 TRUSSES.
THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD. NATIONAL DESIGN SPEC., BY AFSPA) AND TP1. ALDINE
ENGINEERS, STRUCTURES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE
PLATES TO EACH FACE OF TUBES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A, 2,
ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEX A OF TP11 2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGNED HEREON. THE SCOPE OF THIS COMMITMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANNEX I1 SEC.2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

FL Certificate of Authorization # 567
Haines City, FL 33844

$6 \times 8 (R) \equiv$ 

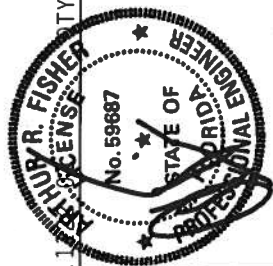
Design Crit: TPI-2002(STD)/FBC

$$C\alpha/RT=1.00(1.25)/10(0) \quad 7.22(1)$$

SHENYANG
CHINA
1991.10.14

Scale = 25"/ft

TC LL	20.0	PSF	REF	R487--	73884
TC DL	10.0	PSF	DATE	01/30/06	
BC DL	10.0	PSF	DRW	HCUSR487	06030011
BC LL	0.0	PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0	PSF	SEQN-	80302	
DUR.FAC.	1.25		FROM	JP	
SPACING	24.0"		JREF-	1SU8487	Z01

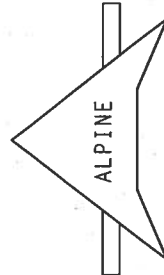


Jan 30 '06

***WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESI 101 TRUSS BUILDING COMPONENT SAFETY AND INFORMATION BY TPI (TRUSS PLATE INSTITUTE, 593 SOUTH 2800, MADISON, WI 53705) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DRIVE, MADISON, WI 53719) FOR THE LATEST PRACTICES. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL BE PROTECTED AGAINST CORROSION. TOP CHORD SHALL HAVE PROPERLY ATTACHED BRACING. BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED UPSTAY SETTING.

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

CONNECTIONS TO EACH PLATE SHALL BE MADE BY WELDING OR BOLTING. ALL STEEL CONNECTOR PLATES ARE MADE TO 10/16/18/20/22/24/26/28/30/32/34/36/38/40/42/44/46/48/50/52/54/56/58/60/62/64/66/68/70/72/74/76/78/80/82/84/86/88/90/92/94/96/98/100/102/104/106/108/110/112/114/116/118/120/122/124/126/128/130/132/134/136/138/140/142/144/146/148/150/152/154/156/158/160/162/164/166/168/170/172/174/176/178/180/182/184/186/188/190/192/194/196/198/200/202/204/206/208/210/212/214/216/218/220/222/224/226/228/230/232/234/236/238/240/242/244/246/248/250/252/254/256/258/260/262/264/266/268/270/272/274/276/278/280/282/284/286/288/290/292/294/296/298/300/302/304/306/308/310/312/314/316/318/320/322/324/326/328/330/332/334/336/338/340/342/344/346/348/350/352/354/356/358/360/362/364/366/368/370/372/374/376/378/380/382/384/386/388/390/392/394/396/398/400/402/404/406/408/410/412/414/416/418/420/422/424/426/428/430/432/434/436/438/440/442/444/446/448/450/452/454/456/458/460/462/464/466/468/470/472/474/476/478/480/482/484/486/488/490/492/494/496/498/500/502/504/506/508/510/512/514/516/518/520/522/524/526/528/530/532/534/536/538/540/542/544/546/548/550/552/554/556/558/560/562/564/566/568/570/572/574/576/578/580/582/584/586/588/590/592/594/596/598/600/602/604/606/608/610/612/614/616/618/620/622/624/626/628/630/632/634/636/638/640/642/644/646/648/650/652/654/656/658/660/662/664/666/668/670/672/674/676/678/680/682/684/686/688/690/692/694/696/698/700/702/704/706/708/710/712/714/716/718/720/722/724/726/728/730/732/734/736/738/740/742/744/746/748/750/752/754/756/758/760/762/764/766/768/770/772/774/776/778/780/782/784/786/788/790/792/794/796/798/800/802/804/806/808/810/812/814/816/818/820/822/824/826/828/830/832/834/836/838/840/842/844/846/848/850/852/854/856/858/860/862/864/866/868/870/872/874/876/878/880/882/884/886/888/890/892/894/896/898/900/902/904/906/908/910/912/914/916/918/920/922/924/926/928/930/932/934/936/938/940/942/944/946/948/950/952/954/956/958/960/962/964/966/968/970/972/974/976/978/980/982/984/986/988/990/992/994/996/998/1000/1002/1004/1006/1008/1010/1012/1014/1016/1018/1020/1022/1024/1026/1028/1030/1032/1034/1036/1038/1040/1042/1044/1046/1048/1050/1052/1054/1056/1058/1060/1062/1064/1066/1068/1070/1072/1074/1076/1078/1080/1082/1084/1086/1088/1090/1092/1094/1096/1098/1100/1102/1104/1106/1108/1110/1112/1114/1116/1118/1120/1122/1124/1126/1128/1130/1132/1134/1136/1138/1140/1142/1144/1146/1148/1150/1152/1154/1156/1158/1160/1162/1164/1166/1168/1170/1172/1174/1176/1178/1180/1182/1184/1186/1188/1190/1192/1194/1196/1198/1200/1202/1204/1206/1208/1210/1212/1214/1216/1218/1220/1222/1224/1226/1228/1230/1232/1234/1236/1238/1240/1242/1244/1246/1248/1250/1252/1254/1256/1258/1260/1262/1264/1266/1268/1270/1272/1274/1276/1278/1280/1282/1284/1286/1288/1290/1292/1294/1296/1298/1300/1302/1304/1306/1308/1310/1312/1314/1316/1318/1320/1322/1324/1326/1328/1330/1332/1334/1336/1338/1340/1342/1344/1346/1348/1350/1352/1354/1356/1358/1360/1362/1364/1366/1368/1370/1372/1374/1376/1378/1380/1382/1384/1386/1388/1390/1392/1394/1396/1398/1400/1402/1404/1406/1408/1410/1412/1414/1416/1418/1420/1422/1424/1426/1428/1430/1432/1434/1436/1438/1440/1442/1444/1446/1448/1450/1452/1454/1456/1458/1460/1462/1464/1466/1468/1470/1472/1474/1476/1478/1480/1482/1484/1486/1488/1490/1492/1494/1496/1498/1500/1502/1504/1506/1508/1510/1512/1514/1516/1518/1520/1522/1524/1526/1528/1530/1532/1534/1536/1538/1540/1542/1544/1546/1548/1550/1552/1554/1556/1558/1560/1562/1564/1566/1568/1570/1572/1574/1576/1578/1580/1582/1584/1586/1588/1590/1592/1594/1596/1598/1600/1602/1604/1606/1608/1610/1612/1614/1616/1618/1620/1622/1624/1626/1628/1630/1632/1634/1636/1638/1640/1642/1644/1646/1648/1650/1652/1654/1656/1658/1660/1662/1664/1666/1668/1670/1672/1674/1676/1678/1680/1682/1684/1686/1688/1690/1692/1694/1696/1698/1700/1702/1704/1706/1708/1710/1712/1714/1716/1718/1720/1722/1724/1726/1728/1730/1732/1734/1736/1738/1740/1742/1744/1746/1748/1750/1752/1754/1756/1758/1760/1762/1764/1766/1768/1770/1772/1774/1776/1778/1780/1782/1784/1786/1788/1790/1792/1794/1796/1798/18



Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844

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Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #5
Webs 2x4 SP #3

SPECIAL LOADS

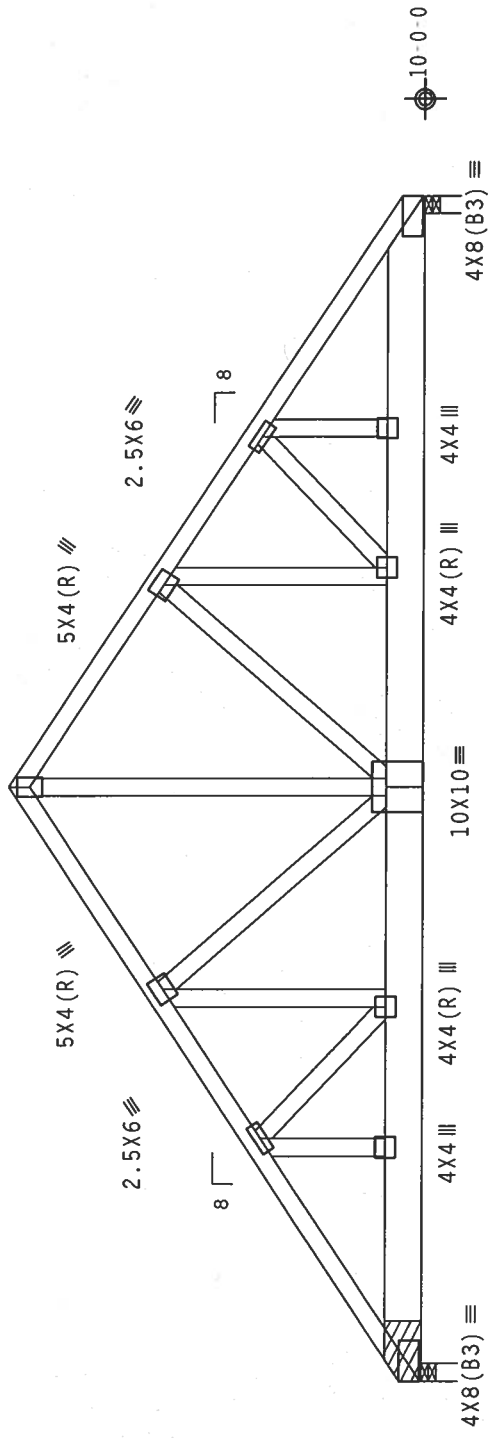
TC - From 64 PLF at 0.00 to 64 PLF at 19.50
BC - From 20 PLF at 0.00 to 20 PLF at 19.50
BC - 1754 LB Conc. Load at 0.40, 4.40
BC - 1460 LB Conc. Load at 6.40, 10.40, 12.40, 14.40
BC - 789 LB Conc. Load at 16.44
BC - 818 LB Conc. Load at 17.44

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.

Provide connection for concentrated load(s) shown.

3 COMPLETE TRUSSES REQUIRED

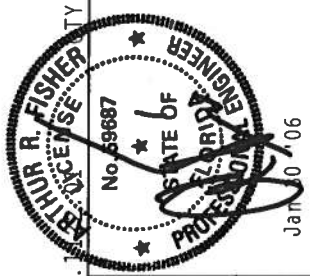
Nailing Schedule: (12d Common, 0.148"x3.25", min.) nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @5.00" o.c. (Each Row)
Webs: 1 Row @4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.
Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
1 0.000' 1 12" 4 Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



9-9-0 9-9-0 19-6-0 Over 2 Supports
R=9072 U=898 W=3.5"
R=6737 U=586 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22



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ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC 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/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 16GA-2. SECTION PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL OR 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. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC 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/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 16GA-2. SECTION PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL OR 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.

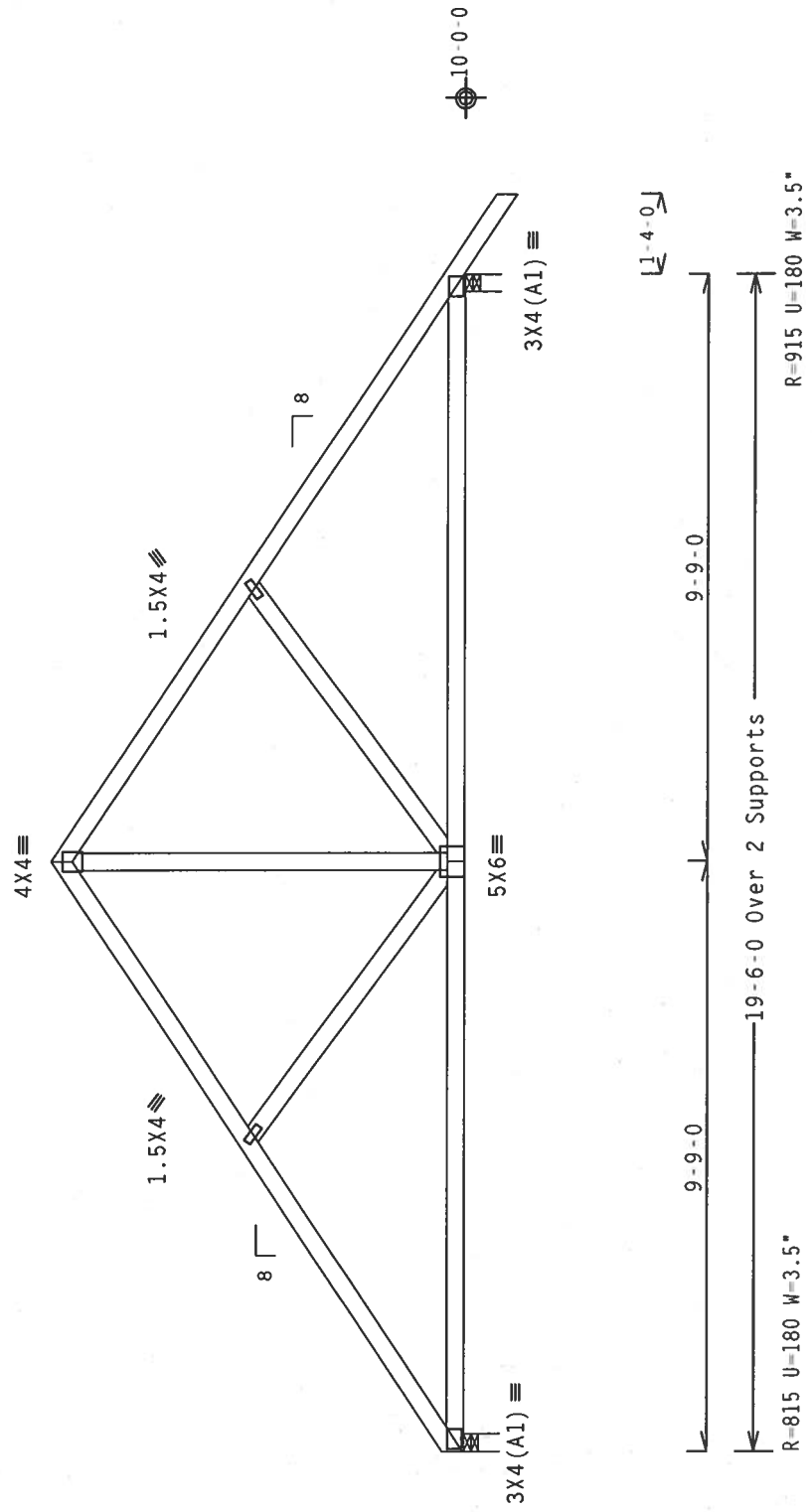
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TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030014
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	27437	
DUR.FAC.	1.25	FROM	JP	
SPACING	see above	JREF-	1SU8487_Z01	

Scale = .3125"/Ft.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .3125" / Ft.

TC LL	20.0 PSF	REF R487 - 73888
TC DL	10.0 PSF	DATE 01/30/06
BC DL	10.0 PSF	DRW HCUSR487 06030015
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 80293
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1SU8487_Z01

W. R. FISHER
No. 59887
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jan 30 '06

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

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI-2002(STD)/FBC. CONNECTION PLATES ARE MADE OF 2018/16GA (N.H/5/4) ASTM A653 GRADE 40/60 (N. K/H-5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA.2. CONNECTION PLATES SHALL BE PLACED IN THE ZONE OF THE TRUSS CHORDS. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION, INSTALLATION, AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #2 Dense:
Stack Chord SC2 2x4 SP #2 Dense:

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

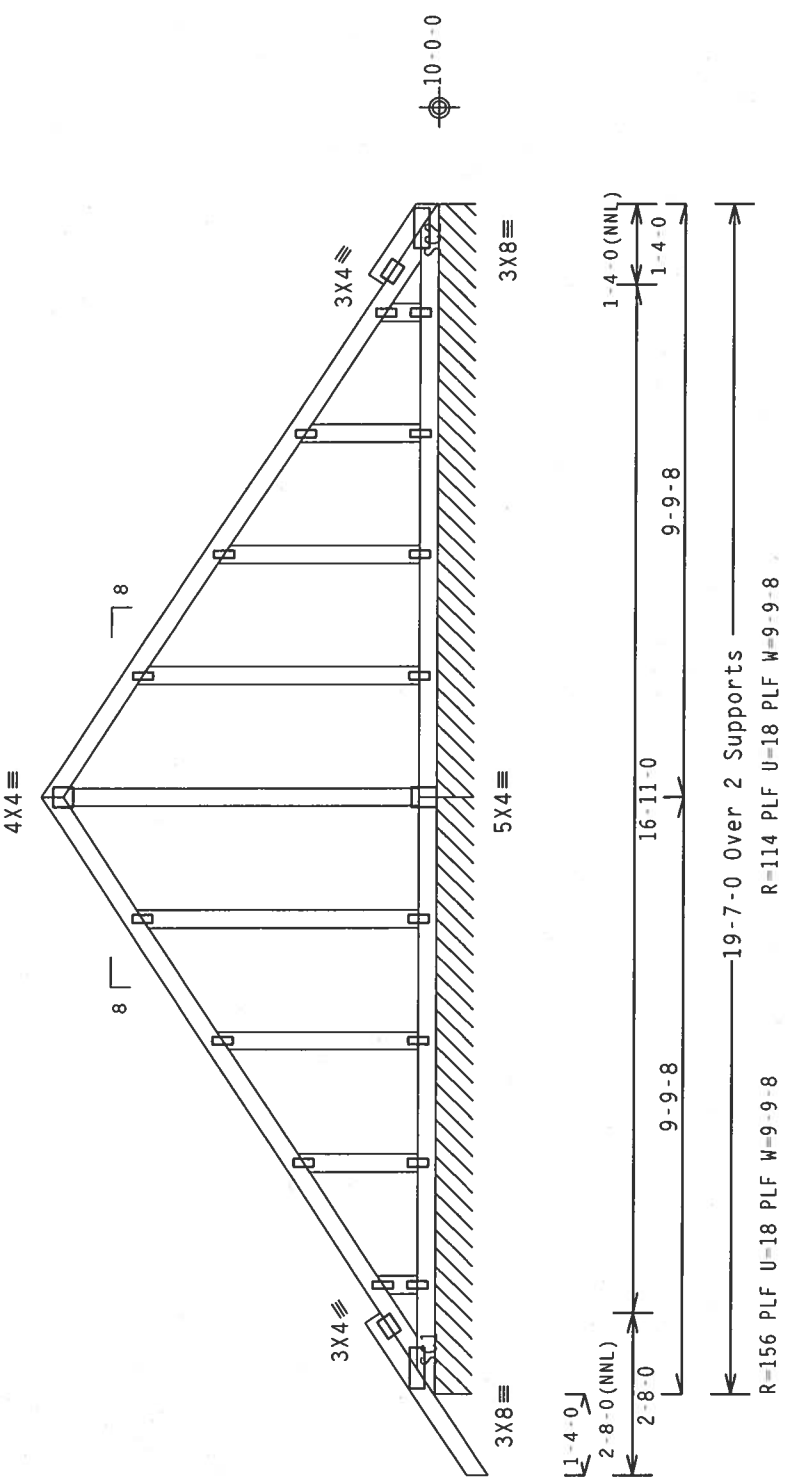
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

Gable end supports 8" max rake overhang.



Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

PLT TYP. Wave

Scale = .3125"/Ft.

REF	R487--	73889
DATE	01/30/06	
DRW	HCUSR487	06030016
HC-ENG	TCE/AF	
SEQN-	27377	REV
FROM	JP	
JREF-	1SU8487_Z01	

ALPINE

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

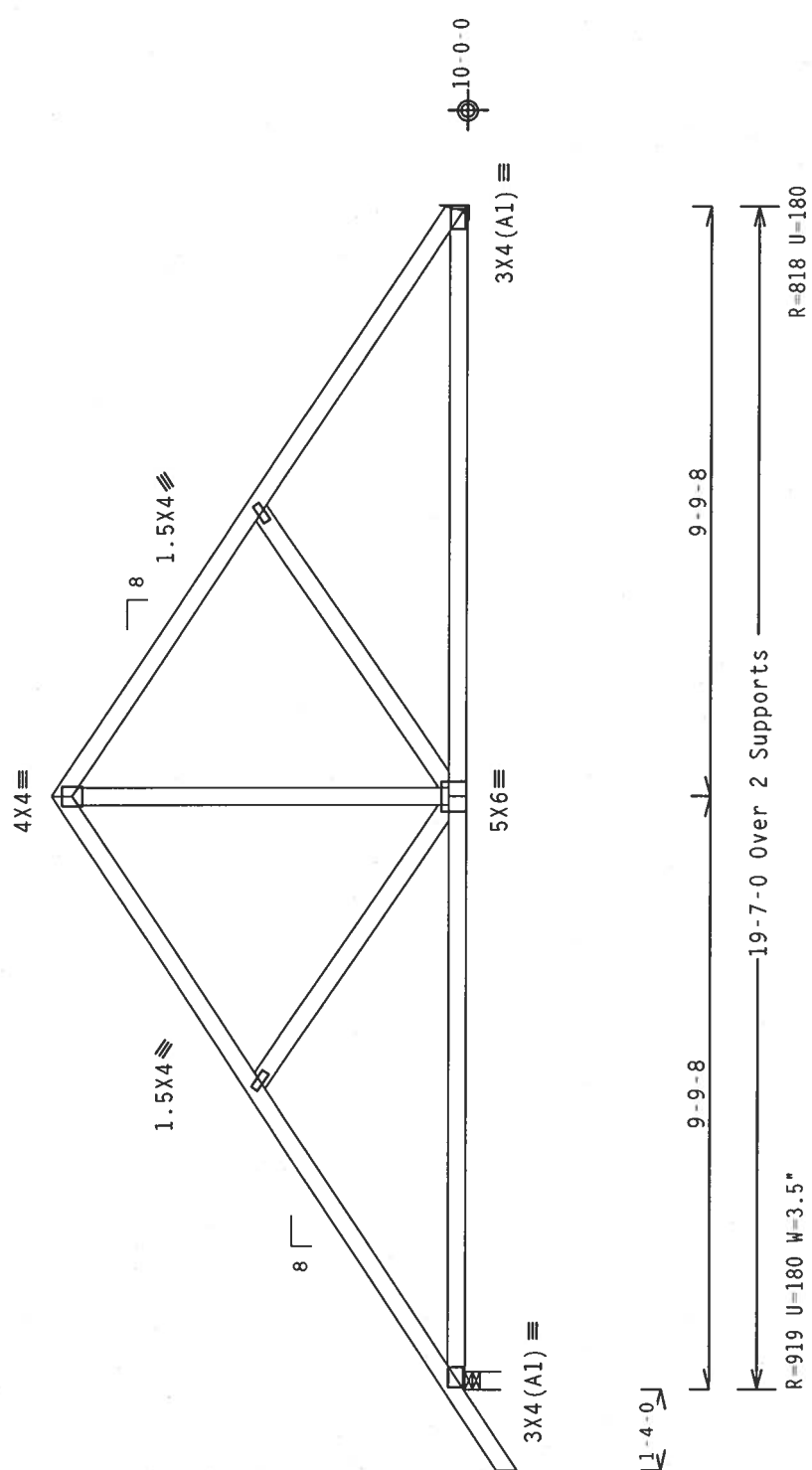
WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES 1.03 (BUILDING COMPONENT SAFETY) AND RES 1.04 (INSTALLATION SAFETY) FOR ADDITIONAL REQUIREMENTS. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE 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 TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI1. 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. DRAMING SECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) DESIGN MANUAL FOR STEEL CONSTRUCTION, 9TH EDITION, 2002, SECTION 10.3. A SEAL ON THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

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/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

Scale = .3125"/Ft.

REF	DATE	DRW	HC-ENG	SEQN	FROM	JREF
R487--	01/30/06	HCUSR487	TCE/AF	27364	JP	1SU8487_Z01

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"

FL/-4/-/-R/-

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

STATE OF FLORIDA
Professional Engineer
No. 59687
R. FISHER
JUN '06

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES.

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

SPECIAL LOADS
----- (LUMBER DUR-FAC=1.25 / PLATE DUR-FAC=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 6.08
BC - From 20 PLF at 0.00 to 20 PLF at 6.08
BC - 1770 LB Conc. Load at 1.02, 3.02, 5.02

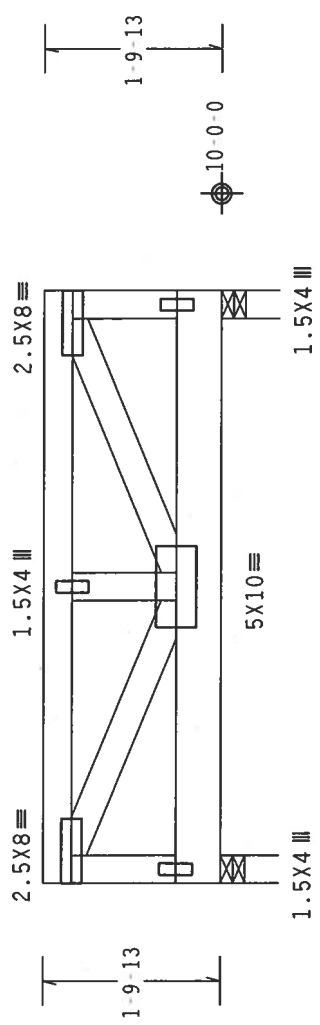
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Truss must be installed as shown with top chord up.
Provide connection for concentrated load(s) shown.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.
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.

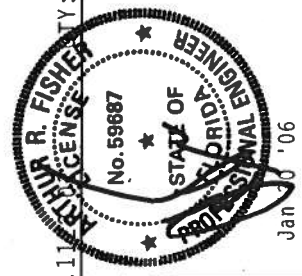
The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.



6-1-0 Over 2 Supports
R-2917 U=324 W=3.5"
R-2880 U=320 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

PLT TYP. Wave	Scale = .5" / Ft.
REF R487-- 73891	TC LL 20.0 PSF
DATE 01/30/06	TC DL 10.0 PSF
DRW HCUSR487 06030018	BC DL 10.0 PSF
HC-ENG TCE/AF	BC LL 0.0 PSF
SEQN- 80597	TOT.LD. 40.0 PSF
FROM JP	DUR.FAC. 1.25
JREF- 1SU8487_Z01	SPACING see above



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY) AND TPI-2002 (STD) FOR TRUSS COUNCIL OF AMERICA 6300 ENTERPRISE DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA 6300 ENTERPRISE DR., SUITE 200, 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-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI-2002 (STD). CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/S/K) 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 DRAWING 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.

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

SPECIAL LOADS

(LUMBER DUR-FAC=1.25 / PLATE DUR-FAC=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 7.88
BC - From 20 PLF at 0.00 to 20 PLF at 7.88
BC - 181 LB Conc. Load at 1.94, 3.94, 5.94

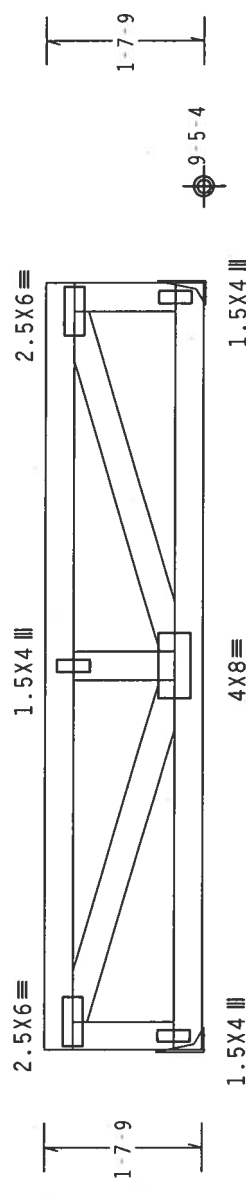
Truss must be installed as shown with top chord up.

Provide connection for concentrated load(s) shown.

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

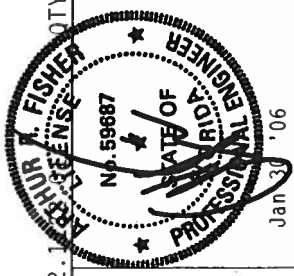
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



7-10-8 Over 2 Supports
R=587 U=180
R=587 U=180

PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 1000 PLUMMER RD., DUNFORD DR., SUITE 200, MADISON, MI 48061, AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, MI 48061) 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 (W/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. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT MANUFACTURED BY ALPINE ENGINEERED PRODUCTS, INC. USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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Haines City, FL 33844
1950 Marley Drive

FL Certificate of Authorization # 567

Scale = 5"/Ft.	FL / - / 4 / - / - / R / -	QTY: 1
REF R487 - - 73892	TC LL 20.0 PSF	
DATE 01/30/06	TC DL 10.0 PSF	
DRW HCUSR487 06030019	BC DL 10.0 PSF	
HC-ENG TCE/AF	BC LL 0.0 PSF	
SEQN- 80331	TOT.LD. 40.0 PSF	
FROM JP	DUR.FAC. 1.25	
JREF- 1SU8487_Z01	SPACING see above	

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.

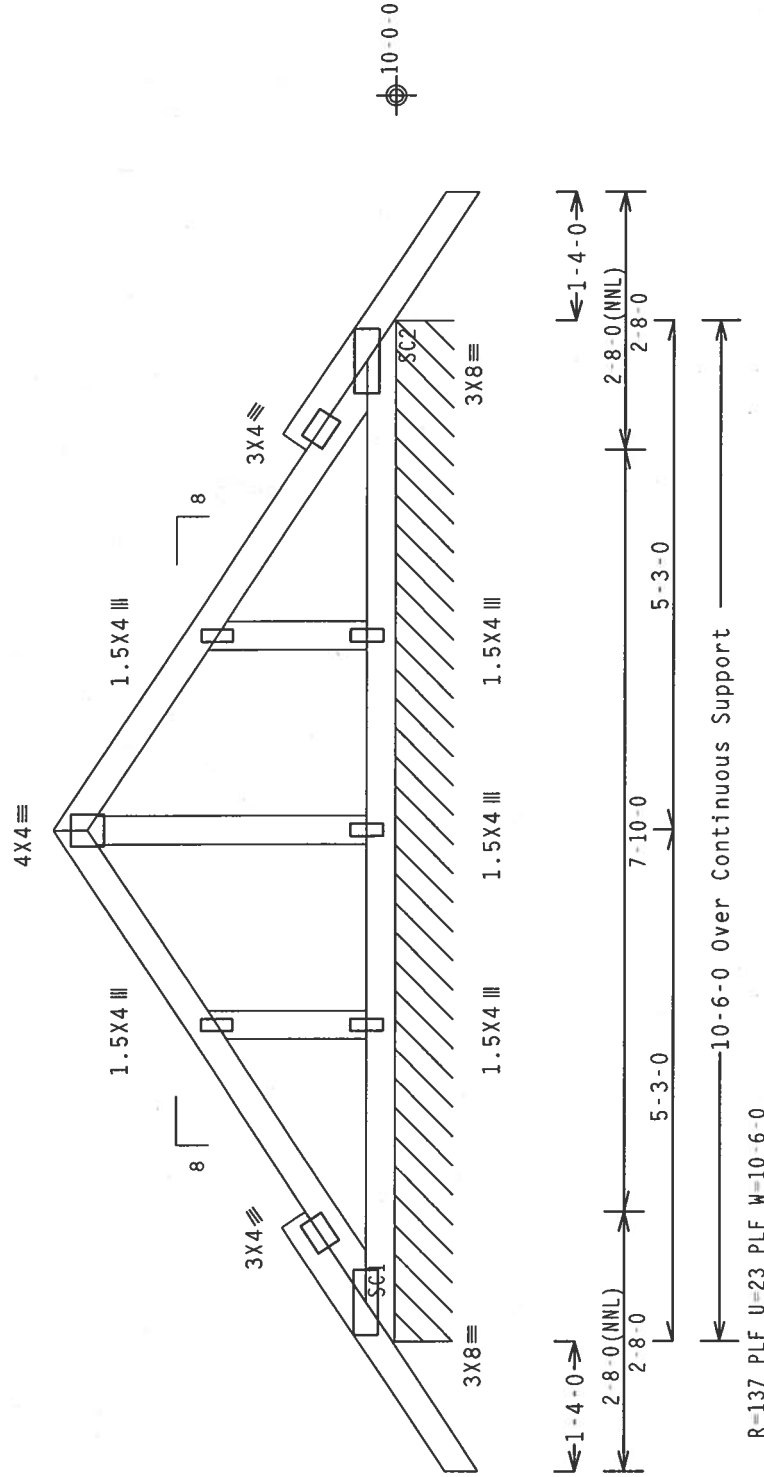
Stacked top chord must NOT be notched or cut in area (NNL).

Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=137 PLF U=23 PLF W=10-6-0

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0) \quad 7.$

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

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 S. GLENVIEW RD., SUITE 200, MADISON, WI 53715, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., GLENVIEW, IL 60025) FOR ADDITIONAL INFORMATION REGARDING THESE TRUSSES. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PAILS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED UPLIFT CEILING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO TRUSSES. CONSULT WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ATAP&) AND TPI. ALPINE ENGINEERED CONSTRUCTION SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS ON OUR PART.

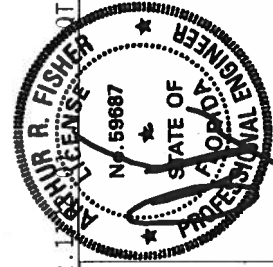
DESIGN FOR PLATE TYPE: 2019/16084 (4-HYSL) 5TH AESS GRADE, 40' (60" x 4'H) GALV. STEEL. APPLY 1/2" THICK PLATES TO EACH JOINT OF TRUSS.

PERMITTING: THE FOLLOWING INFORMATION IS REQUIRED FOR THE PERMITTING OFFICIALS:

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY TPI 2002 SEC. 1.

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.



Jan 30 '06

TC LL	20.0	PSF	REF R487-- 73893
TC DL	10.0	PSF	DATE 01/30/06
BC DL	10.0	PSF	DRW HCURS487 06030020
BC LL	0.0	PSF	HC-ENG TCE/AF
TOT.LD.	40.0	PSF	SEQN- 80377 REV
DUR.FAC.	1.25		FROM JP
SPACING	24.0"		JREF- 1SU8487_Z01

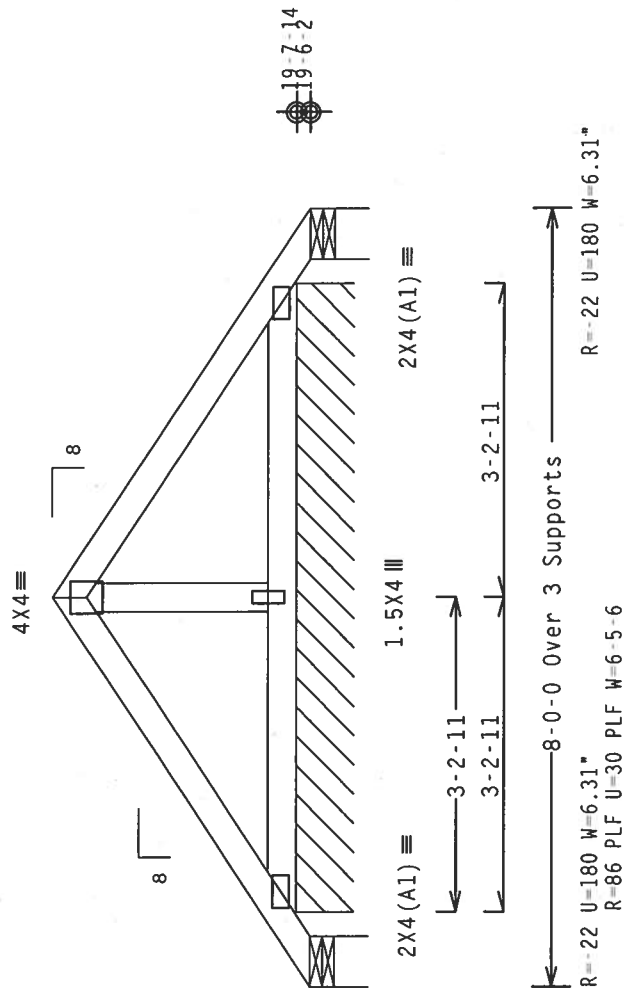
	Top	chord	2x4	SP	#2
	Bot	chord	2x4	SP	#2
		webs	2x4	SP	#3

110 mph wind, 20.84 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

Refer to DWG PIGBACK0405 or PIGBACK0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

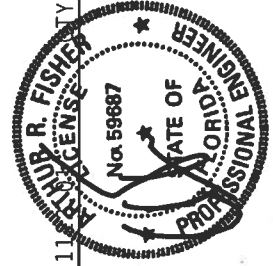


PLT TYP. Wave

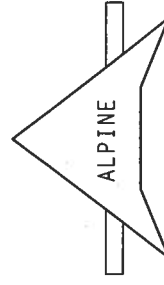
Design Crit: TPI-2002(STD)/FBC
Ca/RT=1.00(1.25)

Scale = .5"/Ft.

TC LL	20.0	PSF	REF	R487--	73895
TC DL	10.0	PSF	DATE	01/30/06	
BC DL	2.0	PSF	DRW	HCUSR487	06030028
BC LL	0.0	PSF	HC-ENG	TCE/AF	
TOT.LD.	32.0	PSF	SEQN-	73740	REV
DUR.FAC.	1.25		FROM	JP	
SPACING	24.0"		JREF-	1SU8487_Z01	



Jan 30 '06



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

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #2 Dense:

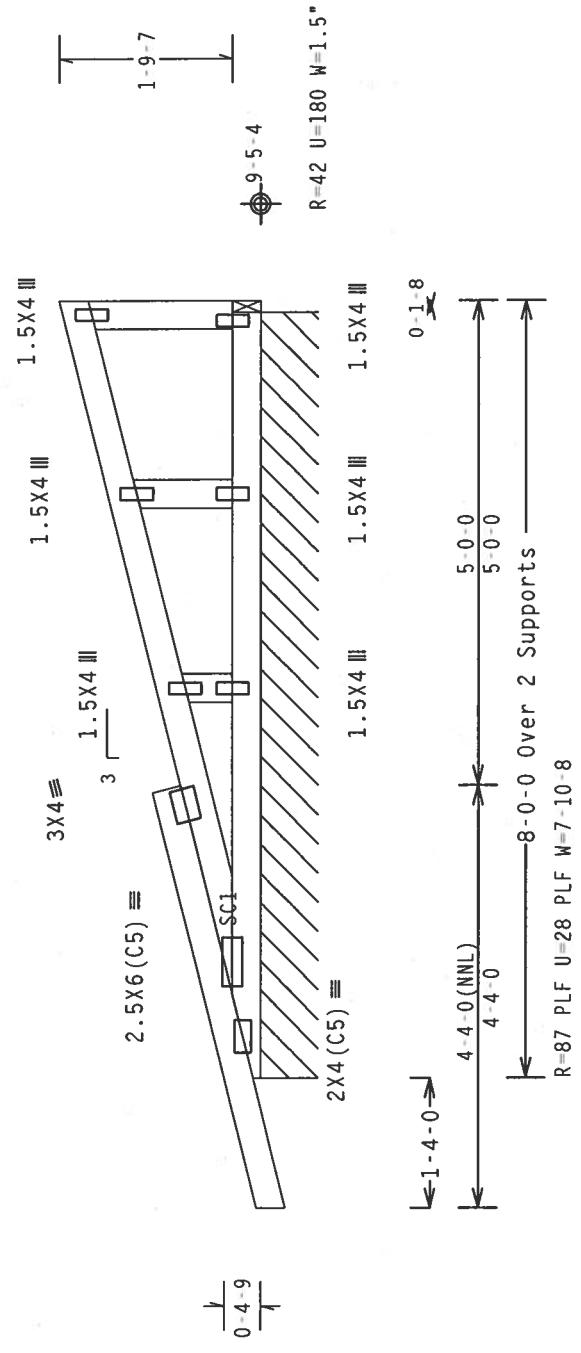
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

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.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487 -- 73896
TC DL	10.0 PSF	DATE	01/30/06
BC DL	10.0 PSF	DRW	HCUSR487 06030022
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	80384
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1SU8487_Z01

ALPINE

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

THUR P. FISHER
No. 59687
STATE OF FLORIDA
Professional Engineer
JAN 30 '06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND AISC (STEEL EDUCATION CENTER, 500 N. MICHIGAN, CHICAGO, IL 60611) 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 AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2019/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE PLACED ON THE BOTTOM CHORD OF THE TRUSS. THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

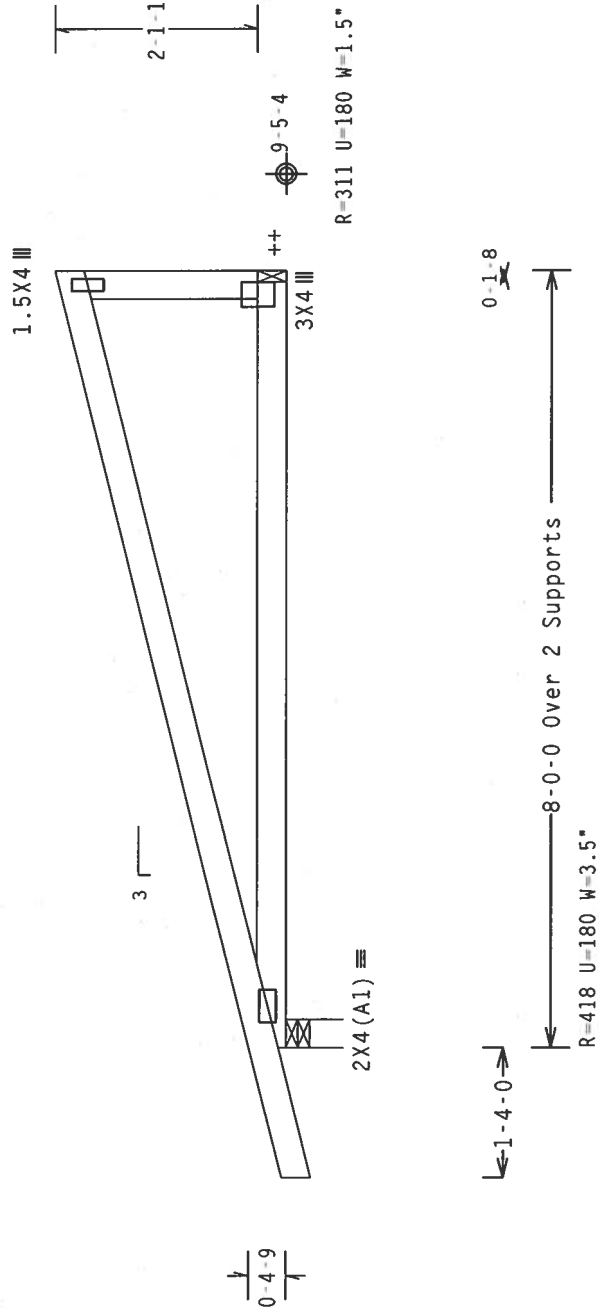
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

++ Anchorage req'd to prevent truss from slipping off bearing.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487--	73897
TC DL	10.0 PSF	DATE	01/30/06	
BC DL	10.0 PSF	DRW	HCUSR487	06030023
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN	80313	
DUR.FAC.	1.25	FROM	JP	
SPACING	24.0"	JREF	1SU8487_Z01	

ALPINE

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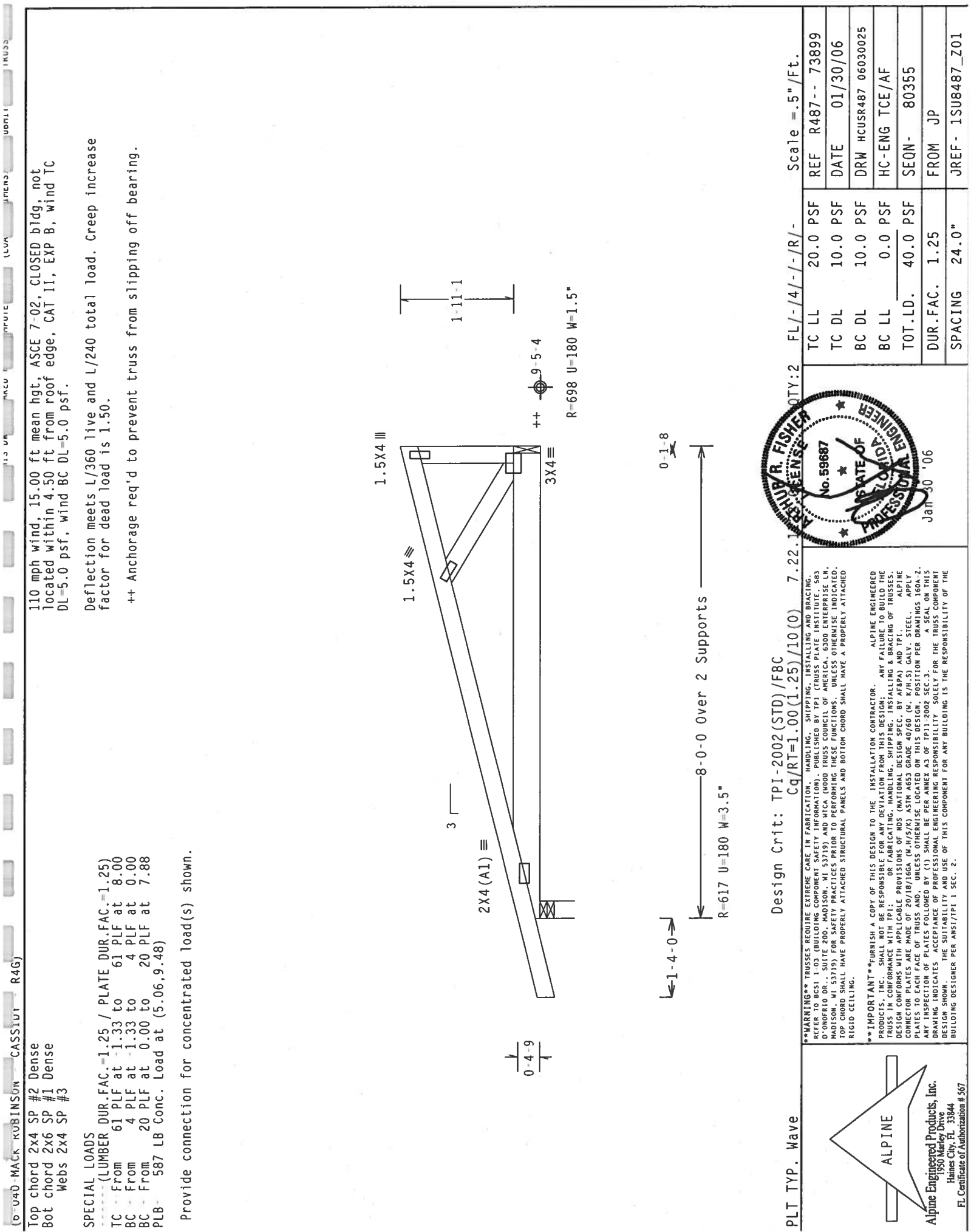
Jan '06

Professional Engineer
No. 59887
STATE OF FLORIDA

Jan '06

Jan '06

Jan 20 '06



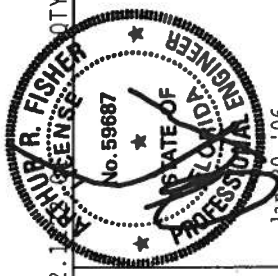
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

++ Anchorage req'd to prevent truss from slipping off bearing.

SPECIAL LOADS
----- (LUMBER DUR-FAC=1.25 / PLATE DUR-FAC=1.25)
TC - From 61 PLF at 1.33 to 61 PLF at 8.00
BC - From 4 PLF at 1.33 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.88
PLB- 587 LB Conc. Load at (5.06,9.48)

Provide connection for concentrated load(s) shown.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RECOMMEND THAT THE TRUSS BE PLACED ON A RIGID CEILING. THE TRUSS SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE. THE TRUSS SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE. THE TRUSS SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE.

****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 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 TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

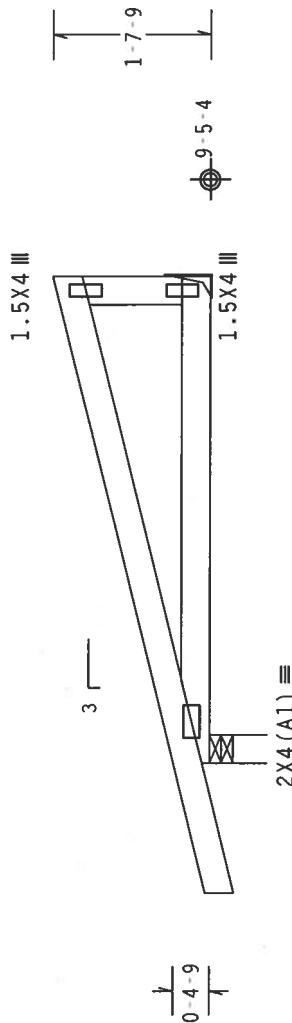
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # 567

PLT TYP. Wave	QTY:2	FL/-/4/-/-/R/-	Scale = .5"/Ft.
TC LL	20.0 PSF	REF	R487-- 73899
TC DL	10.0 PSF	DATE	01/30/06
BC DL	10.0 PSF	DRW	HCUSR487 06030025
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	80355
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1SU8487_Z01

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

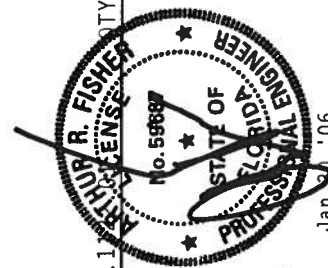


$\hookleftarrow 1-4-0 \Rightarrow$
 $\longleftrightarrow 5-0-0$ Over 2 Supports
 $\begin{matrix} R=308 & U=180 & W=3.5^* \\ R=181 & U=180 \end{matrix}$

PLT TYP. Wave

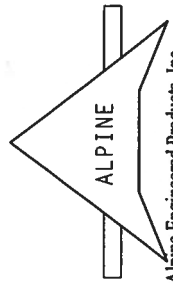
Scale = 5"/Ft.

TC LL	20.0 PSF	REF R487-- 73900
TC DL	10.0 PSF	DATE 01/30/06
BC DL	10.0 PSF	DRW HCUR487 06030026
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 80322
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1SU8487_Z01



WARNING: TRUSSES REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TOP TRUSS COMPANY, 803 D'OFFICIO DR., 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.

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(b) U40-MACK RUBINSON - CASSIUT - X1)

Top chord 2x4 SP #2 Dense

Bot chord 2x4 SP #2 Dense

Webs 2x4 SP #3

110 mph wind, 18.82 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

4X4

8

1.5X4

2X4 (A1)

2X4 (A1)

8

18'-0-0

2'-4-0

2'-4-0

4'-8-0 Over 2 Supports

R-265 U-180 W-3.5"

R-265 U-180 W-3.5"

L1'-0-0

L1'-0-0

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22

Scale = .5" / Ft.

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

FL Certificate of Authorization # 567

ENGINEER

PROFESSIONAL SEAL

STATE OF FLORIDA

No. E9687

Ja 31 2006

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487 -- 73901
TC DL	10.0 PSF	DATE	01/30/06
BC DL	10.0 PSF	DRW	HCUSR487 06030027
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	80390
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1SU8487_Z01

[illegible]

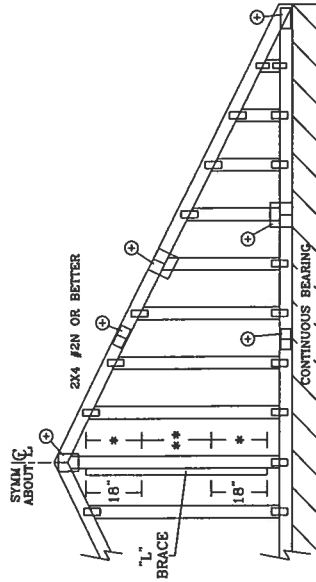
GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
CABLE END SUPPORTS LOAD FROM 4' 0"
OUTLOOKERS WITH 2' 0" OVERHANG, OR 12"
PLAYDOWN OVERHANG.

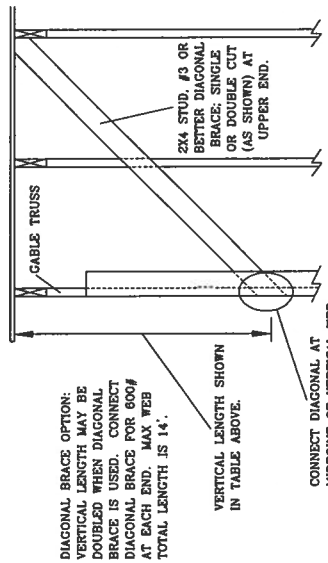
ATTACH EACH "L" BRACE WITH 10d NAILS.
 * FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C.
 IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
 ** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.
 IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
 "L" BRACING MUST BE A MINIMUM OF 80% OF WEB
 MEMBER LENGTH.

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

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.



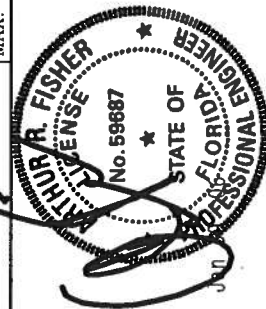
*****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-403 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE COUNCIL OF AMERICAN TRUSS MANUFACTURERS, 10000 W. 10TH AVENUE, SUITE 100, GLENDALE, COLORADO 80541. FOR SAFETY PRACTICES PRIOR TO ORDERING. THESE FUNCTIONS AND NOTION INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED RIGID OR STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

[illegible]

REF	ASCE7-02-GABI1015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	

MAX. TOT. LD. 60 PSF

MAX. SPACING	24.0"
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ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

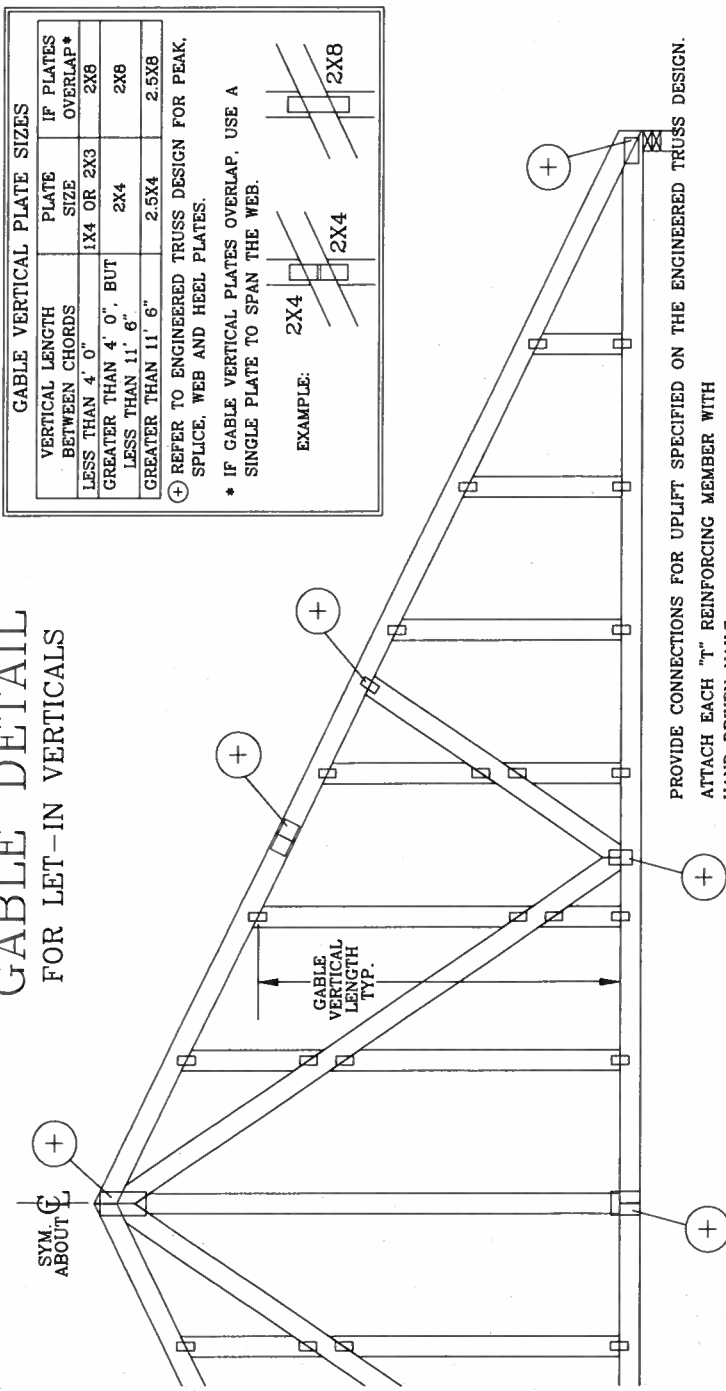
GABLE DETAIL FOR LET-IN VERTICALS

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	

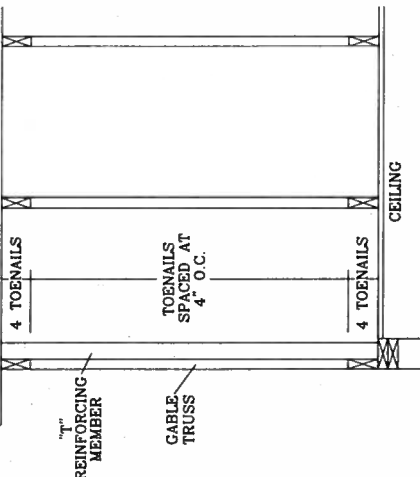
⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

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

EXAMPLE:



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 (0.162" 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, A08015ECI103

A13030ECI103, A12030ECI103, A11030ECI103, A10030ECI103, A08030ECI103

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08015EE0405,

A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08030EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI

WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE

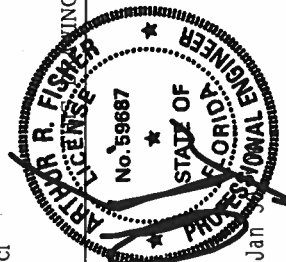
VERTICAL LENGTH.

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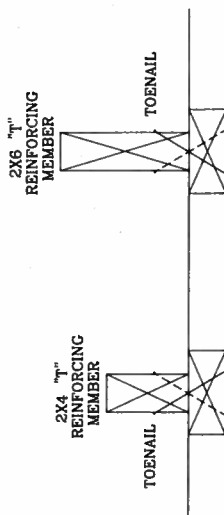
ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA



THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

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



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON CABLE 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"

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING
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.

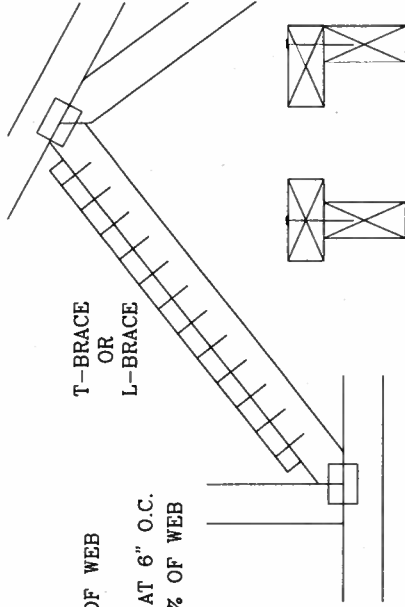
(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

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

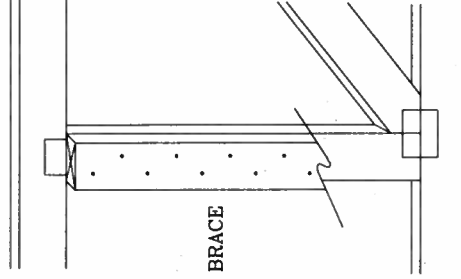


T-BRACE

L-BRACE

SCAB BRACING:

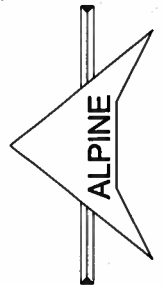
APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d OR .128"x3" GUN
NAILS AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



SCAB BRACE

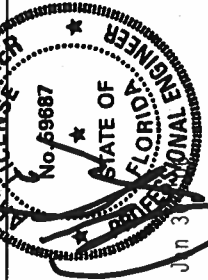
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ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

THIS DRAWING REPLACES DRAWING 579,640



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

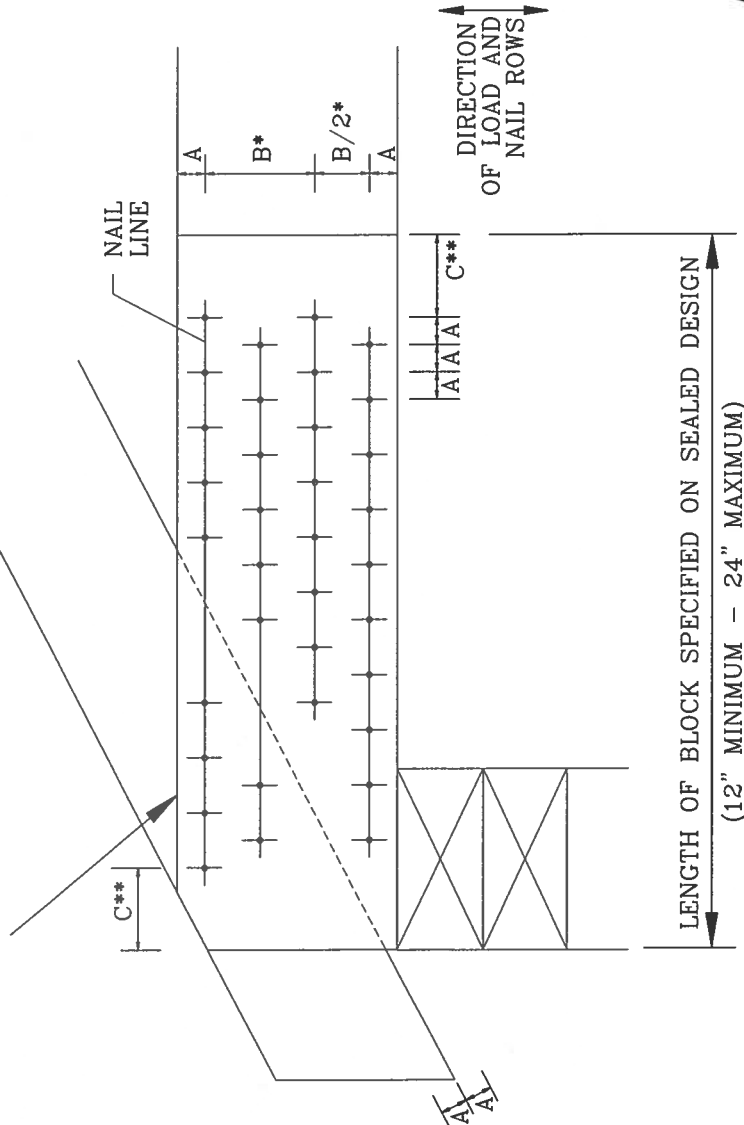
BEARING BLOCK NAIL SPACING DETAIL

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

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

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

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



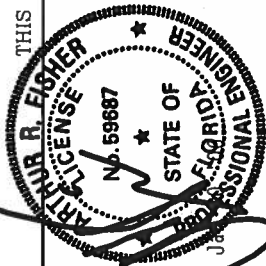
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

MINIMUM NAIL SPACING DISTANCES

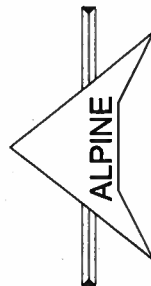
NAIL TYPE	DISTANCES		
	A	B*	C**
8d BOX (0.113"x2.5")	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"x3")	7/8"	1 5/8"	2"
12d BOX (0.128"x3.25")	7/8"	1 5/8"	2"
16d BOX (0.135"x3.5")	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"x4")	1"	1 7/8"	2 1/4"
8d COMMON (0.131"x2.5")	7/8"	1 5/8"	2"
10d COMMON (0.148"x3")	1"	1 7/8"	2 1/4"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

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699



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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/S/K) ASTM A653 GRADE, 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) 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 SAFETY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. E.



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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

PIGGYBACK DETAIL

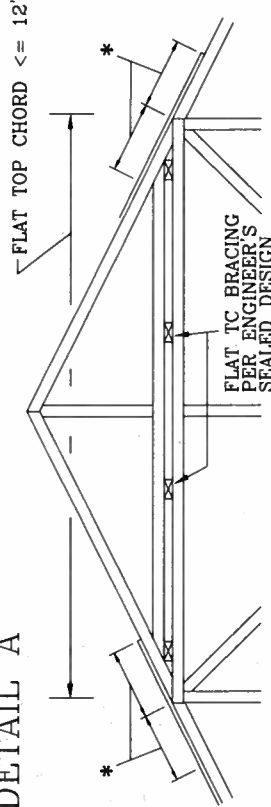
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG.
LOCATED ANYWHERE IN ROOF, CAT II, EXP C,
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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

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

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

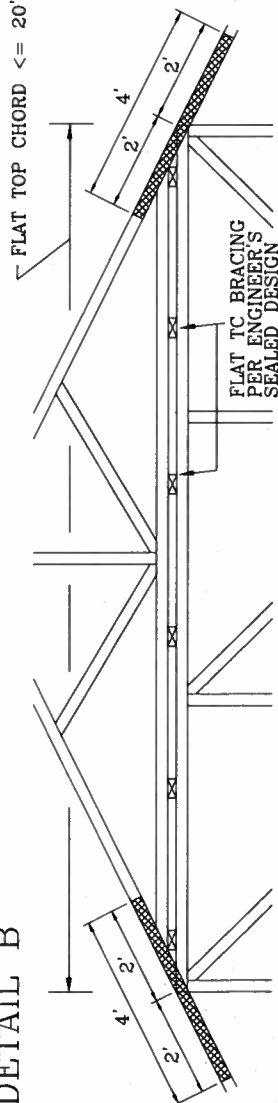
DETAIL A



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

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

DETAIL B

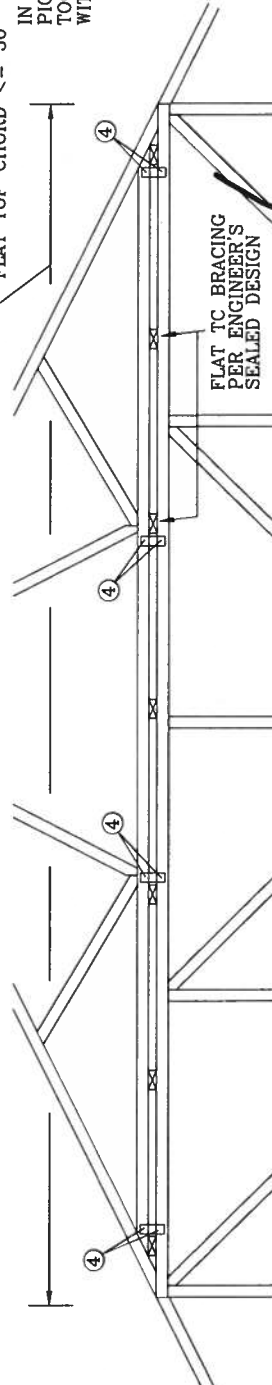


PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP
CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND
SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY)
ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

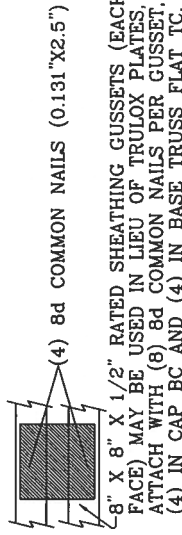
DETAIL C

CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS.
CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.

FLAT TOP CHORD <= 30"

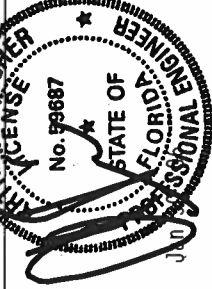


IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL
PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY
TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS
WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.



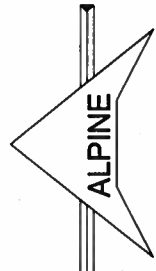
THIS DRAWING REPLACES DRAWINGS 581.670 & 961.860

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



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ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

PIGGYBACK DETAIL

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

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

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

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

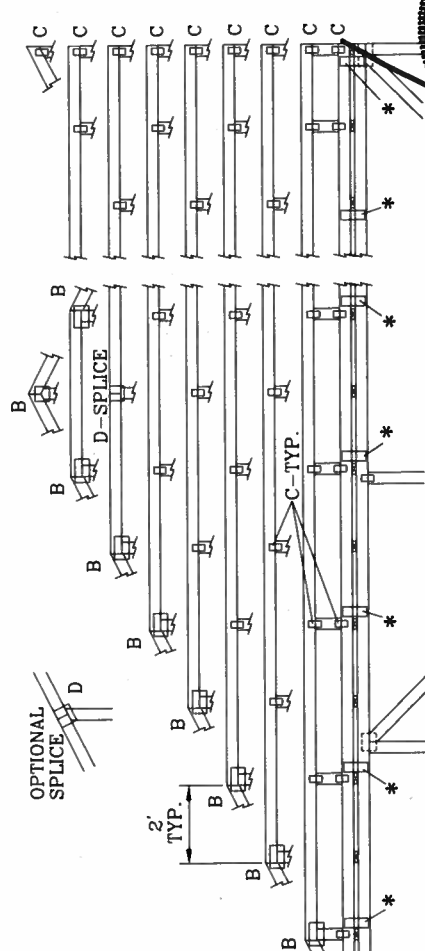
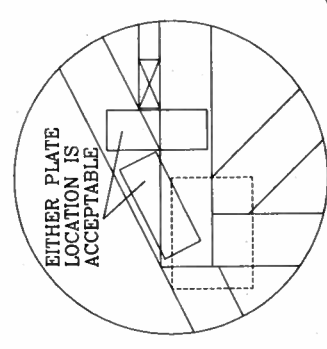
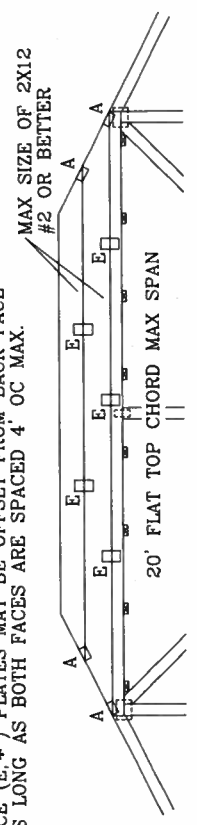
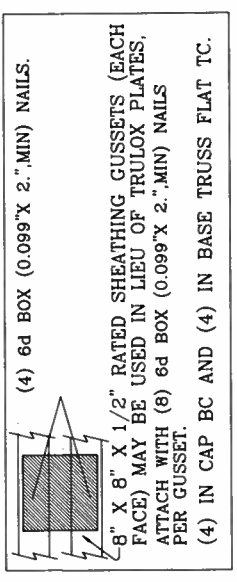
REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

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

110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

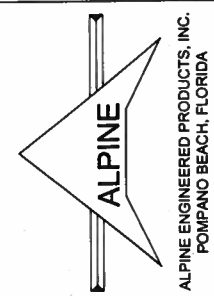
FRONT FACE (E*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



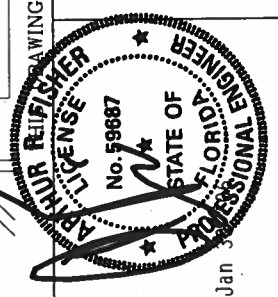
*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

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ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA



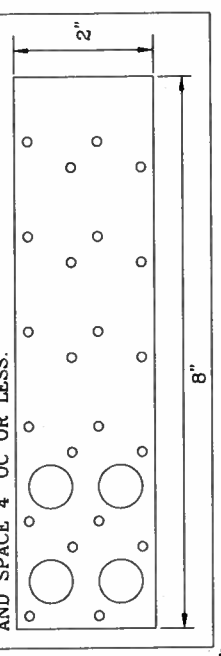
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

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

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

* PIGGYBACK SPECIAL PLATE

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



DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045

REF	PIGGYBACK
MAX LOADING	55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.	
47 PSF AT 1.15 DUR. FAC.	
SPACING	24.0"