

This Permit Expires One Year From the Date of Issue

APPLICANTDONALD WILLIAMS

PHONE755-0764

ADDRESS541SW AIRPARK GLENLAKE CITYFL32025

OWNERHAROLD WILLIAMS

PHONE755-4906

ADDRESS537SW WINDSOR DRIVELAKE CITYFL32024

CONTRACTORDONALD WILLIAMS

PHONE755-0764

LOCATION OF PROPERTY90W, TL ON WINDSOR DRIVE, 3RD LOT ON LEFT

TYPE DEVELOPMENTSFD,UTILITYESTIMATED COST OF CONSTRUCTION235300.00

HEATED FLOOR AREA4706.00TOTAL AREA6038.00HEIGHTSTORIES1

FOUNDATIONCONCWALLSFRAMEDROOF PITCH7/12FLOORSLAB

LAND USE & ZONINGPRRDMAX. HEIGHT30

Minimum Set Back Requirments:STREET-FRONT30.00REAR25.00SIDE25.00

NO. EX.D.U.0FLOOD ZONEX PPDEVELOPMENT PERMIT NO.

PARCEL ID30-3S-16-02411-111SUBDIVISIONHILLS OF WINDSOR

LOT11BLOCKPHASEUNITTOTAL ACRES

000001263

Culvert Permit No.Culvert WaiverContractor's License NumberApplicant/Owner/Contractor

CULVERT06-0460-NBKJH

Driveway ConnectionSeptic Tank NumberLU & Zoning checked byApproved for IssuanceNew Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash91

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Powerdate/app. byFoundationdate/app. byMonolithicdate/app. by

Under slab rough-in plumbingdate/app. bySlabdate/app. bySheathing/Nailingdate/app. by

Framingdate/app. byRough-in plumbing above slab and below wood floordate/app. by

Electrical rough-indate/app. byHeat & Air Ductdate/app. byPeri. beam (Lintel)date/app. by

Permanent powerdate/app. byC.O. Finaldate/app. byCulvertdate/app. by

M/H tie downs, blocking, electricity and plumbingdate/app. byPooldate/app. by

Reconnectiondate/app. byPump poledate/app. byUtility Poledate/app. by

M/H Poledate/app. byTravel Trailerdater/app. byRe-roofdate/app. by

BUILDING PERMIT FEE \$1180.00CERTIFICATION FEE \$30.19SURCHARGE FEE \$30.19

MISC. FEES \$0.00ZONING CERT. FEE \$50.00FIRE FEE \$0.00WASTE FEE \$

FLOOD DEVELOPMENT FEE \$FLOOD ZONE FEE \$25.00CULVERT FEE \$25.00TOTAL FEE1340.38

INSPECTORS OFFICECLERKS 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 PREPARED BY  
AND RETURN TO:  
TITLE OFFICES, LLC  
1089 SW MAIN BLVD.  
LAKE CITY, FLORIDA 32025

Parcel I.D. #: 02411-111

Inst: 2006026120 Date: 11/02/2006 Time: 11:37  
J.4 DC, P. DeWitt Cason, Columbia County B: 1100 P: 2686

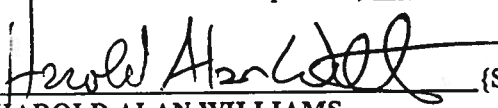
SPACE ABOVE THIS LINE FOR PROCESSING DATA

## NOTICE OF COMMENCEMENT

STATE OF FLORIDA  
COUNTY OF COLUMBIA

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713.13, Florida Statutes, the following information is provided in this Notice of Commencement. This Notice shall be void and of no force and effect if construction is not commenced within ninety (90) days after recordation.

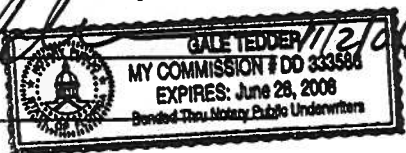
1. Description of property: (Legal description of property, and street address if available)  
  
Lot 11, HILLS OF WINDSOR, according to the map or plat thereof as recorded in PRRD Book 1, Page 1, of the Public Records of Columbia County, Florida.
2. General description of improvement: construction of single family dwelling
3. Owner information:
  - a. Name and address:  
HAROLD ALAN WILLIAMS and PENNY  
TANKERSLEY WILLIAMS  
337 SW LOCKHEED LANE, LAKE CITY, FLORIDA  
32025
  - b. Interest in property: Fee Simple
  - c. Name and Address of Fee Simple Titleholder (if other than owner):
4. Contractor: (Name and Address) DONNY WILLIAMS CONSTRUCTION; 541 SW AIRPARK GLEN,  
LAKE CITY, FLORIDA 32025  
  
Telephone Number: (386) 755-0764
5. Surety (if any):
  - a. Name and Address:  
Telephone Number: \_\_\_\_\_
  - b. Amount of Bond \$ \_\_\_\_\_
6. Lender: (Name and Address)  
PEOPLES STATE BANK  
350 SW MAIN BLVD., LAKE CITY FL 32025  
Telephone Number: 386-754-0002
7. Persons within the State of Florida designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: (Name and Address)  
N/A
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes: (Name and Address)  
PEOPLES STATE BANK  
350 SW MAIN BLVD., LAKE CITY FL 32025  
Telephone Number: 386-754-0002
9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified) \_\_\_\_\_.

 (SEAL)  
HAROLD ALAN WILLIAMS

Sworn to and subscribed before me this 30th day of October, 2006, by HAROLD ALAN WILLIAMS  
who are personally known to me or who have produced

as identification.

Notary Public  
My Commission Expires: \_\_\_\_\_



## Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0611-07 Date Received 11/2/06 By CP# 91 Permit # 1263/25253  
Application Approved by - Zoning Official BLK Date 08.11.06 Plans Examiner OK JTH Date 11-20-06  
Flood Zone Appl Development Permit N/A Zoning PRRD Land Use Plan Map Category A-3  
Comments SITE PLAN PAGE 1 OF PLANS

Applicants Name DONALD E. WILLIAMS, 541 SW AIRPARK GLEN, LAKE CITY, FL Phone 386-755-0764  
Address 541 SW AIRPARK GLEN, LAKE CITY, FL  
Owners Name HAROLD A. WILLIAMS, 537 SW WINDSOR DRIVE, LAKE CITY, FL 32024 Phone 386-755-4906  
911 Address 537 SW WINDSOR DRIVE, LAKE CITY, FL 32024  
Contractors Name DONALD E. WILLIAMS, 541 SW AIRPARK GLEN, LAKE CITY, FL Phone 386-755-0764  
Address 541 SW AIRPARK GLEN, LAKE CITY, FL  
Fee Simple Owner Name & Address HAROLD A. WILLIAMS, 537 SW WINDSOR DRIVE, LAKE CITY, FL 32024  
Bonding Co. Name & Address NA  
Architect/Engineer Name & Address NICHOLAS PAUL GEISLER  
Mortgage Lenders Name & Address PEOPLES STATE BANK, 350 SW MAIN BLVD. 32055  
Circle the correct power company - FL Power & Light - Clay Elect. - Suwannee Valley Elect. - Progressive Energy  
Property ID Number 30-3S-16-02411-111 Estimated Cost of Construction \$375,000.00  
Subdivision Name HILLS OF WINDSOR Lot 11 Block      Unit      Phase       
Driving Directions US 90 WEST APPROXIMATELY 5 MILES TO HILLS OF WINDSOR SUBDIVISION, PROCEED TO THE 3rd LOT ON THE LEFT

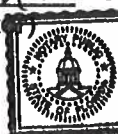
Type of Construction FRAME/BRICK VENEER Number of Existing Dwellings on Property       
Total Acreage 3 Lot Size 3 ACRES Do you need a - Culvert Permit or Culvert Waiver or Have an existing Drive  
Actual Distance of Structure from Property Lines - Front 112 FT ✓ Side 109.5 FT ✓ Side 144 FT ✓ Rear 251 FT ✓  
Total Building Height 30' Number of Stories 2 Heated Floor Area 4706 SF Roof Pitch 7/12  
TOTAL 6038

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.

Donny Williams Construction LLC  
Owner/Builder or Agent (including Contractor)



Donald E. Williams  
Contractor Signature  
Contractors License Number CGC004692  
Competency Card Number       
NOTARY STAMP/SEAL

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
this 2nd day of Nov. 20 06  
Personally known or Produced Identification

Gale Tedder  
Notary Signature

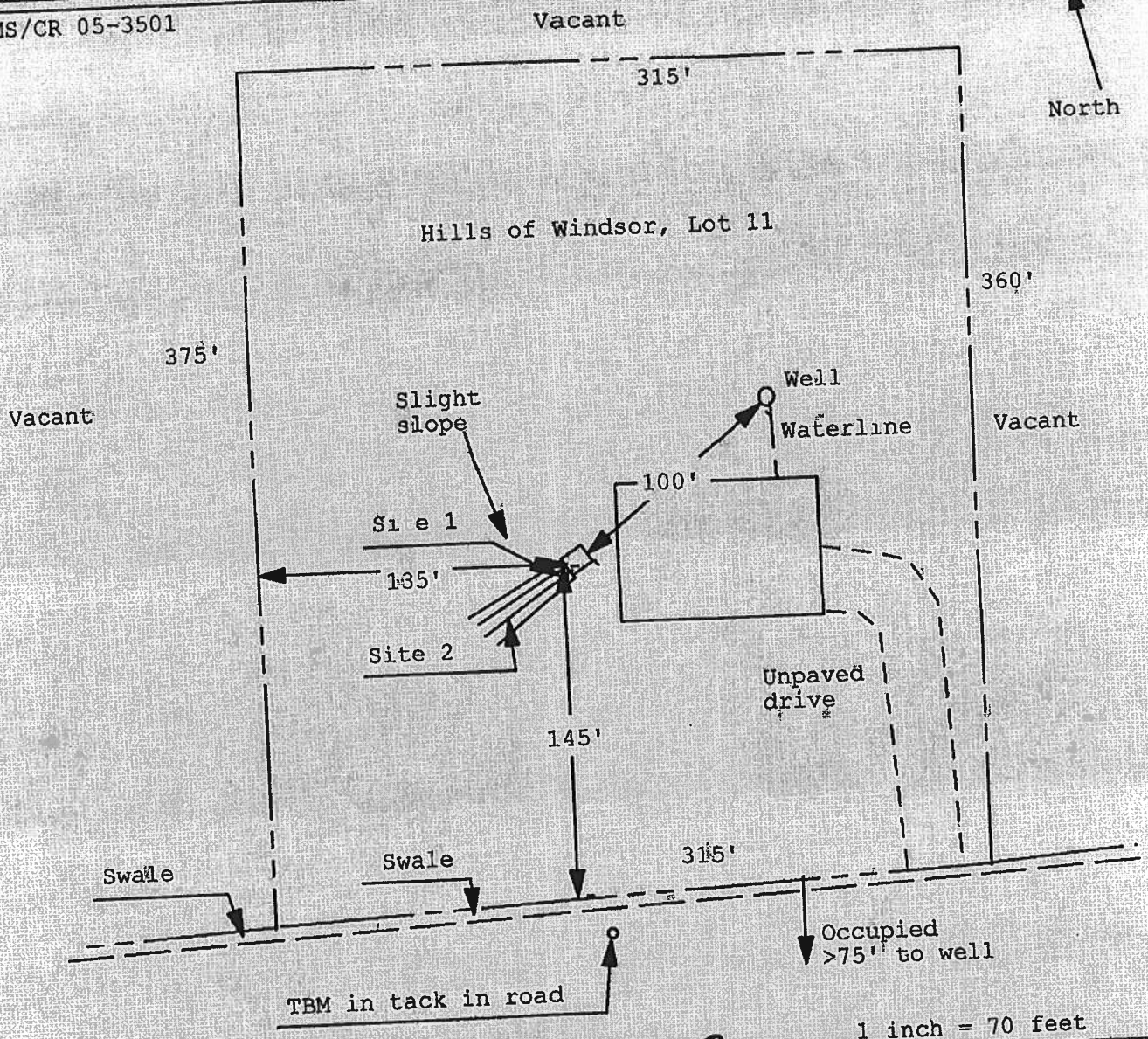


# Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-0460N

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

WILLIAMS/CR 05-3501



Site Plan Submitted By Paul L. Lyle  
Plan Approved ☒ Not Approved ☐

Date 4/28/06

Date 5/12/06

By Ma Jh

Columbia

CPHU

Notes: \_\_\_\_\_

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name:	H Williams job	Builder:	Glenn I. Jones Inc.
Address:		Permitting Office:	
City, State:		Permit Number:	
Owner:	H. Williams Residence	Jurisdiction Number:	
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 28.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. Central Unit	Cap: 28.0 kBtu/hr
5. Is this a worst case?	No		SEER: 13.00
6. Conditioned floor area (ft²)	4706 ft²	c. 2 Others (See details)	Additional Cap: 36.0 kBtu/hr
7. Glass type¹ 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: 28.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble, U=0.4)	140.0 ft²		HSPF: 8.00
b. SHGC:		b. Electric Heat Pump	Cap: 28.0 kBtu/hr
(or Clear or Tint DEFAULT) 7b. (SHGC=0.76)	590.1 ft²		HSPF: 8.00
8. Floor types		c. 2 Others (See details)	Additional Cap: 36.0 kBtu/hr
a. Raised Wood, Adjacent	R=11.0, 444.0 ft²	14. Hot water systems	
b. Slab-On-Grade Edge Insulation	R=0.0, 318.1(p) ft	a. Electric Resistance	Cap: 60.0 gallons
c. N/A			EF: 0.92
9. Wall types		b. 4 Others	Cap: 160.0 gallons
a. Frame, Wood, Exterior	R=13.0, 5713.2 ft²	c. Conservation credits	
b. Frame, Wood, Adjacent	R=11.0, 720.0 ft²	(HR-Heat recovery, Solar	
c. N/A		DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 3428.0 ft²	PT-Programmable Thermostat,	
b. Under Attic	R=30.0, 60.0 ft²	MZ-C-Multizone cooling,	
c. N/A		MZ-H-Multizone heating)	
11. Ducts			
a. Sup: Unc. Ret: Con AH: Interior	Sup. R=6.0, 152.0 ft²		
b. 3 Others	404.0 ft		

Glass/Floor Area: 0.15

Total as-built points: 51612

Total base points: 66472

PASS

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

PREPARED BY: Lois Weeks  
DATE: 11-1-06

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

OWNER/AGENT: \_\_\_\_\_  
DATE: \_\_\_\_\_

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

BUILDING OFFICIAL: \_\_\_\_\_  
DATE: \_\_\_\_\_



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4  
EnergyGauge® (Version: FLRCSE v4.21)

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

ADDRESS , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES				Overhang							
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Ornt	Len	Hgt	Area X	SPM X	SOF = Points	
.18	4708.0	20.04	16976.5	Double, U=0.36, SHGC=0.76	E	1.5	6.0	61.7	51.99	0.91	2927.8
				Double, U=0.36, SHGC=0.76	W	1.5	6.0	83.3	47.99	0.91	3651.2
				Double, U=0.36, SHGC=0.76	E	1.5	3.0	4.0	51.99	0.73	150.9
				Double, U=0.36, SHGC=0.76	N	1.5	6.0	140.0	25.97	0.94	3413.4
				Double, U=0.36, SHGC=0.76	NW	1.5	6.0	71.3	33.70	0.93	2223.4
				Double, U=0.36, SHGC=0.76	S	1.5	6.0	120.0	44.85	0.86	4808.4
				Double, U=0.52, Clear	S	1.5	8.0	35.0	37.49	0.92	1207.9
				Double, U=0.36, SHGC=0.76	NE	1.5	6.0	23.8	37.74	0.92	826.8
				Double, U=0.52, Clear	NE	1.5	8.0	33.3	31.25	0.96	999.0
				Double, U=0.52, Clear	N	1.5	6.0	25.0	20.98	0.94	492.4
				Double, U=0.36, SHGC=0.76	S	1.5	7.0	72.0	44.85	0.80	2903.7
				Double, U=0.36, SHGC=0.76	S	1.5	8.0	14.0	44.85	0.92	578.1
				Double, U=0.52, Clear	W	1.5	9.0	30.0	40.18	0.97	1167.5
As-Built Total:				713.4							25150.4
WALL TYPES				Area X BSPM = Points							
				Type	R-Value		Area X SPM = Points				
Exterior	5713.2	1.70	9712.4	Frame, Wood, Exterior	13.0		5713.2	1.50	8569.8		
Adjacent	720.0	0.70	504.0	Frame, Wood, Adjacent	11.0		720.0	0.70	504.0		
Base Total:				6433.2							9073.8
DOOR TYPES				Area X BSPM = Points							
				Type	Area X SPM = Points						
Exterior	84.0	4.10	344.4	Exterior Wood	84.0 6.10 512.4						
Adjacent	0.0	0.00	0.0								
Base Total:				84.0							512.4
CEILING TYPES				Area X BSPM = Points							
				Type	R-Value	Area X SPM X SCM = Points					
Under Attic	3488.0	1.73	6034.2	Under Attic	30.0	3428.0	1.73 X 1.00	5930.4			
				Under Attic	30.0	60.0	1.73 X 1.00	103.8			
Base Total:				3488.0							6034.2
FLOOR TYPES				Area X BSPM = Points							
				Type	R-Value	Area X SPM = Points					
Slab	318.1(p)	-37.0	-11769.7	Raised Wood, Adjacent	11.0	444.0	0.70	310.8			
Raised	444.0	-3.99	-1771.6	Slab-On-Grade Edge Insulation	0.0	318.1(p)	-41.20	-13105.7			
Base Total:				762.1							-12794.9

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

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION    Area X BSPM = Points				Area X    SPM    =    Points			
4706.0    10.21    48048.3				4706.0    10.21    48048.3			
Summer Base Points: 68077.6				Summer As-Built Points: 76024.2			
Total Summer X System = Cooling Points    Multiplier    Points				Total X Cap X Duct X System X Credit = Cooling Component Ratio    Multiplier    Multiplier    Multiplier    Points (System - Points)    (DM x DSM x AHU)			
				(sys 1: Central Unit 28000 btuh, SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)			
				76024    0.30    (1.09 x 1.147 x 0.91)    0.263    1.000    6895.5			
				(sys 2: Central Unit 18000 btuh, SEER/EFF(13.5) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)			
				76024    0.20    (1.09 x 1.147 x 0.91)    0.253    1.000    4268.6			
				(sys 3: Central Unit 18000 btuh, SEER/EFF(13.5) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)			
				76024    0.20    (1.09 x 1.147 x 0.91)    0.253    1.000    4268.6			
				(sys 4: Central Unit 28000 btuh, SEER/EFF(13.0) Ducts:Unc(S),Con(R),Int(AH),R6.0(INS)			
				76024    0.30    (1.08 x 1.147 x 0.91)    0.263    1.000    6895.5			
				76024.2    1.00    1.135    0.259    1.000    22320.7			
				68077.6    0.4266    29041.9			

# 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	4706.0	12.74	10791.8	Double,U=0.36,SHGC=0.76	E	1.5	6.0	81.7	2.30	1.04	146.8
				Double,U=0.36,SHGC=0.76	W	1.5	6.0	83.3	4.32	1.02	368.5
				Double,U=0.36,SHGC=0.76	E	1.5	3.0	4.0	2.30	1.12	10.3
				Double,U=0.36,SHGC=0.76	N	1.5	6.0	140.0	9.67	1.00	1217.3
				Double,U=0.36,SHGC=0.76	NW	1.5	6.0	71.3	8.33	1.00	695.7
				Double,U=0.36,SHGC=0.76	S	1.5	6.0	120.0	-3.84	1.12	-514.8
				Double,U=0.52,Clear	S	1.5	8.0	35.0	3.60	1.04	131.7
				Double,U=0.36,SHGC=0.76	NE	1.5	6.0	23.8	7.57	1.01	181.3
				Double,U=0.52,Clear	NE	1.5	8.0	33.3	13.60	1.00	456.7
				Double,U=0.52,Clear	N	1.5	6.0	25.0	14.66	1.00	367.5
				Double,U=0.36,SHGC=0.76	S	1.5	7.0	72.0	-3.84	1.07	-295.3
				Double,U=0.36,SHGC=0.76	S	1.5	8.0	14.0	-3.84	1.04	-56.1
				Double,U=0.52,Clear	W	1.5	9.0	30.0	10.85	1.01	328.1
				As-Built Total:		713.4			2837.6		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Exterior	5713.2	3.70	21138.8	Frame, Wood, Exterior	13.0		5713.2	3.40		19424.9	
Adjacent	720.0	3.60	2592.0	Frame, Wood, Adjacent	11.0		720.0	3.60		2592.0	
Base Total:				6433.2		23730.8		As-Built Total:		6433.2 22016.9	
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points						
Exterior	84.0	8.40	705.6	Exterior Wood	84.0 12.30 1033.2						
Adjacent	0.0	0.00	0.0								
Base Total:				84.0		705.6		As-Built Total:		84.0 1033.2	
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	3488.0	2.05	7160.4	Under Attic	30.0		3428.0	2.05 X 1.00		7027.4	
				Under Attic	30.0		60.0	2.05 X 1.00		123.0	
Base Total:				3488.0		7160.4		As-Built Total:		3488.0 7150.4	
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	318.1(p)	8.9	2831.1	Raised Wood, Adjacent	11.0		444.0	3.60		1598.4	
Raised	444.0	0.96	426.2	Slab-On-Grade Edge Insulation	0.0		318.1(p)	18.80		5980.3	
Base Total:				3257.3		As-Built Total:		762.1		7578.7	



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT		
INFILTRATION Area X BWPM = Points			Area X WPM = Points		
4706.0	-0.59	-2776.5	4706.0	-0.59	-2776.5
Winter Base Points:		42859.4	Winter As-Built Points:		37940.2
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier X System Multiplier X Credit Multiplier = Heating Points
			(sys 1: Electric Heat Pump 28000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 37940.2 0.304 (1.069 x 1.169 x 0.93) 0.426 1.000 5707.0 (ays 2: Electric Heat Pump 18000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 37940.2 0.196 (1.069 x 1.169 x 0.93) 0.426 1.000 3668.8 (sys 3: Electric Heat Pump 18000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 37940.2 0.196 (1.069 x 1.169 x 0.93) 0.426 1.000 3668.8 (sys 4: Electric Heat Pump 28000 btuh ,EFF(8.0) Ducts:Unc(S),Con(R),Int(AH),R6.0 37940.2 0.304 (1.060 x 1.169 x 0.93) 0.426 1.000 5707.0		
42859.4	0.6274	26890.0	37940.2	1.00	18751.6

FORM 600A-2004

EnergyGauge® 4.21

## WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT					
<b>WATER HEATING</b>									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit = Total Multiplier
4		2635.00	10540.0	60.0	0.92	4		0.27	2635.00 1.00 2874.6
				40.0	0.92	4		0.18	2635.00 1.00 1916.4
				40.0	0.92	4		0.18	2635.00 1.00 1916.4
				40.0	0.92	4		0.18	2635.00 1.00 1916.4
				40.0	0.92	4		0.18	2635.00 1.00 1916.4
				<b>As-Built Total:</b>					<b>10540.0</b>

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
29042		26890		10540 66472	22321		18752		10540 51612

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 86.5**

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

H. Williams Residence, , ,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 28.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. Central Unit	Cap: 28.0 kBtu/hr
5. Is this a worst case?	No		SEER: 13.00
6. Conditioned floor area (ft <sup>2</sup> )	4706 ft <sup>2</sup>	c. 2 Others	Cap: 36.0 kBtu/hr
7. Glass type <sup>1</sup> 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, U=0.4) 140.0 ft <sup>2</sup>	a. Electric Heat Pump	Cap: 28.0 kBtu/hr
b. SHGC:			HSPF: 8.00
(or Clear or Tint DEFAULT)	7b. (SHGC=0.76) 590.1 ft <sup>2</sup>	b. Electric Heat Pump	Cap: 28.0 kBtu/hr
8. Floor types			HSPF: 8.60
a. Raised Wood, Adjacent	R=11.0, 444.0ft <sup>2</sup>	c. 2 Others	Cap: 36.0 kBtu/hr
b. Slab-On-Grade Edge Insulation	R=0.0, 318.1(p) ft		
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 60.0 gallons
a. Frame, Wood, Exterior	R=13.0, 5713.2 ft <sup>2</sup>		EF: 0.92
b. Frame, Wood, Adjacent	R=11.0, 720.0 ft <sup>2</sup>	b. 4 Others	Cap: 160.0 gallons
c. N/A			
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, 3428.0 ft <sup>2</sup>	15. HVAC credits	
b. Under Attic	R=30.0, 60.0 ft <sup>2</sup>	(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret. Con. AH: Interior	Sup. R=6.0, 152.0 ft <sup>2</sup>	MZ-C-Multizone cooling,	
b. 3 Others	404.0 ft	MZ-H-Multizone heating)	

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

Builder Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_

City/FL Zip: \_\_\_\_\_



\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at [www.fsec.ucf.edu](http://www.fsec.ucf.edu) for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4 EnergyGauge® (Version: FLRCSB v4.21)

Inst:2005000137 Date:01/04/2005 Time:11:15

Doc Stamp-Deed : 525.00

mk DC, P. DeWitt Cason, Columbia County B:1034 P:2105

This instrument was prepared by:  
Robert F. Jordan, Esquire  
Jordan Law Firm, PLLC  
934 N.E. Lake DeSoto Circle  
Lake City, Florida 32055

Grantees' S.S.No.: \_\_\_\_\_  
Property Appraiser's Parcel  
Identification Number: \_\_\_\_\_

RETURN TO:  
Harold Alan Williams & Penny Tankersley Williams  
10226 Heather Glen Drive  
Jacksonville, Florida 32256

### WARRANTY DEED

THIS INDENTURE, made this 4<sup>th</sup> day of January, 2005, between **ROBERT F. JORDAN**, whose post office address is 934 N.E. Lake DeSoto Circle, Lake City, Florida 32055, grantor, and **HAROLD ALAN WILLIAMS** and **PENNY TANKERSLEY WILLIAMS**, his wife, whose post office address is 10226 Heather Glen Drive, Jacksonville, Florida 32256, of the County of Duval, State of Florida, grantees.

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 grantees, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantees, and grantees' heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 11, HILLS OF WINDSOR, a subdivision according to the plat thereof as recorded in PRRD Book 1, Page 1 of the public records of Columbia County, Florida.

SUBJECT TO: Restrictions, easements and other matters contained in the above-referenced PRRD document and the enacting ordinances; and



Restrictions, easements, covenants and related matters contained in the instruments creating the homeowner's association as recorded in OR Book 868, Pages 1048-1085, et. seq.

N.B. The Grantor, Robert F. Jordan, nor any member of his family live or reside on the property described herein or any land adjacent thereto or claim any part thereof or any land adjacent thereto as their homestead.

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.

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

Signed, sealed and delivered in the presence of:

[Signature]

[Signature] (SEAL)  
Robert F. Jordan, Grantor

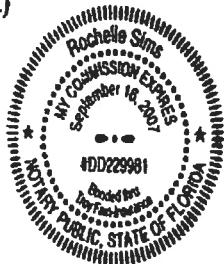
[Signature]  
Witnesses as to Robert F. Jordan

Inst:2005000137 Date:01/04/2005 Time:11:15  
Doc Stamp-Deed : 525.00  
mk DC, P. DeWitt Cason, Columbia County B:1034 P:2106

STATE OF FLORIDA )  
COUNTY OF COLUMBIA )

The foregoing instrument was acknowledged before me this 4 day of January, 2005, by Robert F. Jordan who is personally known to me and who did not take an oath.

(NOTARIAL  
SEAL)



[Signature]  
Notary Public, State of Florida

Rochelle Sims  
Print or Type Name of Notary

## Notice of Treatment

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

Address: 536 SE Bayview Ave

City: Lake City Phone: 752-1703

Site Location: Subdivision Hills of Windsor

Lot # 11 Block# 1 Permit # 25253

Address 537 SW Windsor Dr

Product used	Active Ingredient	% Concentration
--------------	-------------------	-----------------

<input type="checkbox"/> Dursban TC	Chlorpyrifos	0.5%
-------------------------------------	--------------	------

<input type="checkbox"/> Termidor	Fipronil	0.06%
-----------------------------------	----------	-------

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

☒ Premise

☐ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

<u>Permethrin</u>	<u>110</u>	<u>54</u>	<u>2.0945</u>

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

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

28-07      12:25      5299  
Date      Time      Print Technician's Name

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

Applicator - White

Permit File - Canary

Permit Holder - Pink

6/04

©

15253

## Notice of Treatment

72316

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)Address: BAYA AVECity LAKE CITY Phone 752-1703Site Location: Subdivision Hills of WindsorLot # 11 Block#  Permit # 25253Address 537 SW WINDSOR DRProduct usedActive 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

Main Body3513.21308300

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 \_\_\_\_\_.

1/5/07  
Date0820  
TimeF254 Gurney  
Print Technician's Name

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

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05





**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000001263**

DATE 11/27/2006 PARCEL ID # 30-3S-16-02411-111

APPLICANT DONALD WILLIAMS PHONE 755-0764

ADDRESS 541 SW AIRPARK GLEN LAKE CITY FL 32025

OWNER HAROLD WILLIAMS PHONE 755-4906

ADDRESS 537 SW WINDSOR DRIVE LAKE CITY FL 32024

CONTRACTOR DONALD WILLIAMS PHONE 755-0764

LOCATION OF PROPERTY 90W, TL ON WINDSOR DRIVE, 3RD LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT HILLS OF WINDSOR 11

SIGNATURE \_\_\_\_\_

**INSTALLATION REQUIREMENTS**



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

INSTALLATION NOTE: Turnouts will be required as follows:

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

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other \_\_\_\_\_

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

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

**Amount Paid 25.00**



**Project Summary**  
**Entire House**  
 Glenn I. Jones Inc.

Job: H. Williams Residence  
 Date: Aug 08, 2006  
 By:

552 N.W. Hilton Ave., Lake City, FL 32055 Phone: (386)752-5389 Fax: (386)755-3401 Email: louisa@biznes.r.com Web: www.glennijones.com

## Project Information

For: H. Williams Residence

Notes:

## Design Information

Weather: Jacksonville Cecil Fld Na, FL, US

### Winter Design Conditions

Outside db	34 °F
Inside db	70 °F
Design TD	37 °F

### Summer Design Conditions

Outside db	94 °F
Inside db	75 °F
Design TD	19 °F
Daily range	M
Relative humidity	50 %
Moisture difference	41 gr/lb

### Heating Summary

Structure	60333 Btuh
Ducts	3017 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	63350 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	49707 Btuh
Ducts	4971 Btuh
Central vent (60 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.99
Equipment sensible load	54350 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	4706	4706
Volume (ft³)	47060	47060
Air changes/hour	0.70	0.40
Equiv. AVF (cfm)	649	314

### Latent Cooling Equipment Load Sizing

Structure	11754 Btuh
Ducts	0 Btuh
Central vent (60 cfm)	0 Btuh
Equipment latent load	11754 Btuh
Equipment total load	66104 Btuh
Req. total capacity at 0.70 SHR	6.5 ton

### Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
Efficiency	n/a
Heating input	0 Btuh
Heating output	0 °F
Temperature rise	0 cfm
Actual air flow	0.000 cfm/Btuh
Air flow factor	0.00 in H2O
Static pressure	n/a
Space thermostat	

### Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.00

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

Comfort Builder by Wrightsoft 6.0.66 RSRCAR41660

2006-Nov-01 14:37:59

C:\Documents and Settings\louisa\Desktop\bid folder\Donny Williams\H. Williams.rpt Calc = MJ7 Or

Page 1





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

Reference to a building permit application Number: **0611-07**  
Applicant Donnie Williams, contractor Donnie Williams, Owners, Harold Williams  
Property ID 30-3s-16-02411-111

On the date of November 3, 2006 application 0611-07 and plans for construction of 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 0611-07 and when making reference to this application.**

***This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.***

## Egress & lifesafety

1. Every sleeping room shall have at least one openable emergency escape and rescue opening. Where emergency escape and rescue openings are provided they shall have a sill height of not more than 44 inches above the floor. Grade floor openings shall have a minimum net clear opening of 5 square feet and emergency escape and rescue openings above the first floor shall have a minimum net clear opening of 5.7 square feet. The minimum net clear opening height shall be 24 inches and the minimum net clear opening width shall be 20 inches. ***Please verify that each bedroom meets the above requirements.***
2. For all Porches, balconies or raised floor surfaces located more than 30 inches (762 mm) above the floor or grade below ***provide a drawing detail which shows compliance with the code requirements listed below.***
  - A. Shall have guards not less than 36 inches in height.
  - B. Open sides of stairs with a total rise of more than 30 inches above the floor or grade below shall have guards not less than 34 inches in height measured vertically from the nosing of the treads.
  - C. Porches and decks which are enclosed with insect screening shall be provided with guards where the walking surface is located more than 30 inches above the floor or grade below.
  - D. Required guards on open sides of stairways, raised floor areas, balconies and porches shall have intermediate rails or ornamental closures which do not allow passage of a sphere 4 inches or more in diameter.

Exceptions: The triangular openings formed by the riser, tread and bottom rail of a guard at the open side of a stairway are permitted to be of such a size that a sphere 6 inches cannot pass through. Openings for required guards on the sides of stair treads shall not allow a sphere 4 3/8 inches to pass through.
  - E. Guardrails and handrails shall have a 200 minimum uniformly distributed live load applied in pound per square at a single concentrated load applied in any direction at any point along the top.

**3. Show a detail of the spiral stairs which meets the following requirements.** The minimum width shall be 26 inches with each tread having a 7½-inches minimum tread depth at 12 inches from the narrower edge. All treads shall be identical, and the rise shall be no more than 9½

inches. Minimum headroom of 6 feet 6 inches shall be provided. Handrails shall be provided on one side.

***4. The residential pool shown on the plans shall be constructed under a separate building permit.***

Thank You:

Joe Haltiwanger  
Plan Examiner  
Columbia County Building  
Department

# PRODUCT APPROVAL SPECIFICATION SHEET

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS	Thermatrac	Ext doors 8' Height & 8' wide	01082808
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS	Pella	Double Hung Proline 254x50	FL 6432
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	ELK	Arch Shingles	FL 1476-R2
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			

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

David E. Smith  
APPLICANT SIGNATURE

11/1/06  
DATE

# 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: 1SZO487-Z0111090628

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-289--Donnie Williams Construct Williams -- , \*\*  
Truss Count: 47  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Versions 7.24, 7.25.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61615-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

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

Seal Date: 08/11/2006

-Truss Design Engineer-  
Arthur R. Fisher

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

#	Ref	Description	Drawing#	Date
1	31556--A1		06223030	08/11/06
2	31557--A2		06223031	08/11/06
3	31558--A3		06223032	08/11/06
4	31559--A4		06223033	08/11/06
5	31560--A5		06223034	08/11/06
6	31561--A6		06223035	08/11/06
7	31562--A7		06223036	08/11/06
8	31563--A8		06223037	08/11/06
9	31564--A9		06223038	08/11/06
10	31565--B1-GE		06223039	08/11/06
11	31566--B2		06223040	08/11/06
12	31567--B3		06223041	08/11/06
13	31568--C1-GE		06223042	08/11/06
14	31569--C2		06223043	08/11/06
15	31570--C3-GE		06223044	08/11/06
16	31571--C3G		06223045	08/11/06
17	31572--D1-GE		06223046	08/11/06
18	31573--D2		06223047	08/11/06
19	31574--D3		06223048	08/11/06
20	31575--HJA1		06223049	08/11/06
21	31576--HJA2		06223073	08/11/06
22	31577--HJA3		06223050	08/11/06
23	31578--EJ5A1		06223028	08/11/06
24	31579--EJ5A2		06223029	08/11/06
25	31580--EJ8		06223051	08/11/06
26	31581--EJ5		06223052	08/11/06
27	31582--J7A		06223053	08/11/06
28	31583--J5A		06223054	08/11/06
29	31584--J3A		06223055	08/11/06
30	31585--J1A		06223056	08/11/06
31	31586--J7		06223057	08/11/06
32	31587--J5		06223058	08/11/06
33	31588--J3		06223059	08/11/06
34	31589--J1		06223060	08/11/06
35	31590--JK1		06223061	08/11/06
36	31591--JK2		06223062	08/11/06

#	Ref	Description	Drawing#	Date
37	31592--JK3		06223063	08/11/06
38	31593--JK4		06223064	08/11/06
39	31594--JK5		06223065	08/11/06
40	31595--K1G		06223074	08/11/06
41	31596--AP1		06223066	08/11/06
42	31597--AP2		06223067	08/11/06
43	31598--AP3		06223068	08/11/06
44	31599--AP4		06223069	08/11/06
45	31600--AP5		06223070	08/11/06
46	31601--BP1		06223071	08/11/06
47	31602--CP1		06223072	08/11/06

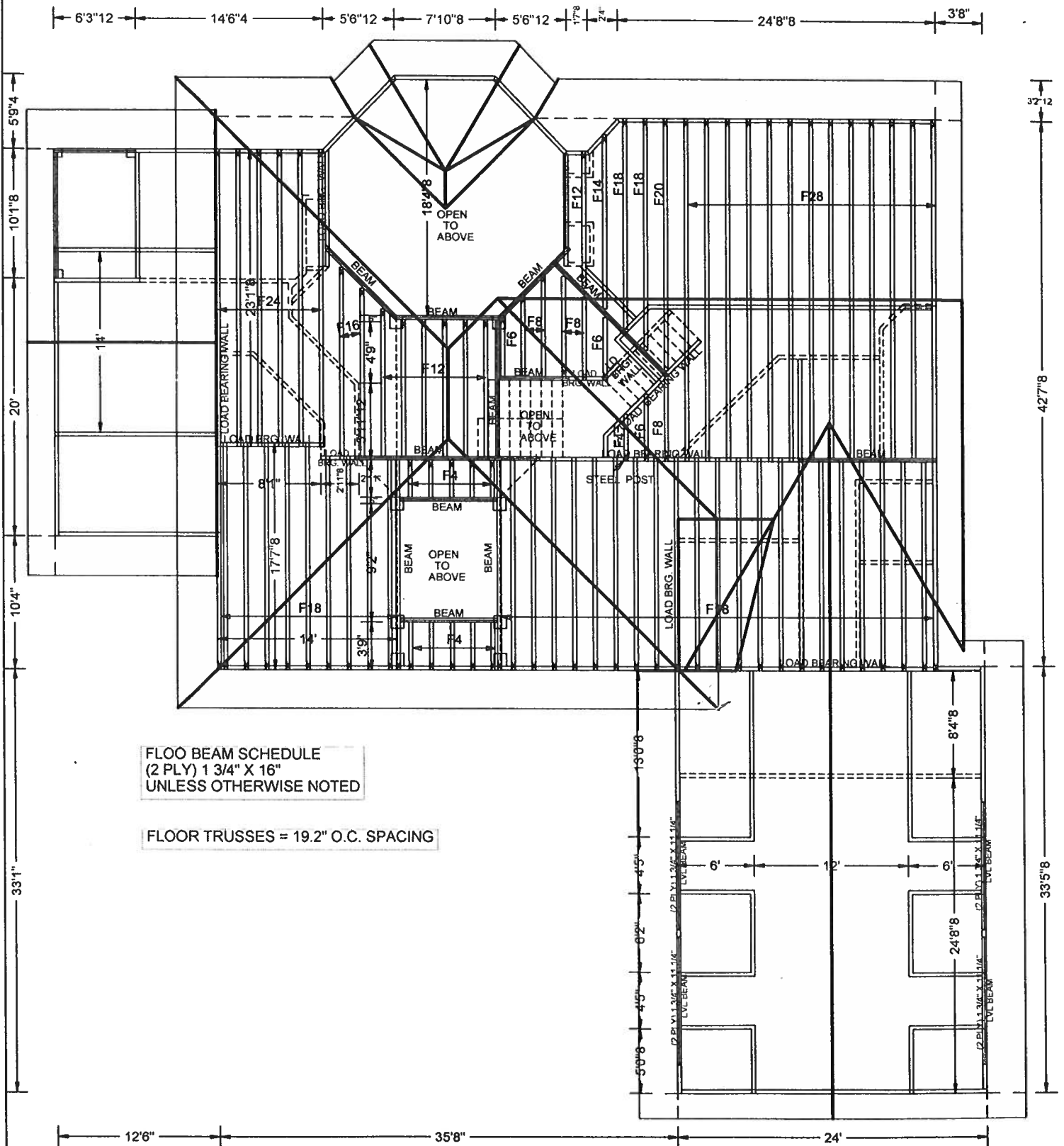




8/8/06

#6-289 DONNIE WILLIAMS - WILLIAMS

**Scale: 3/32" = 1'**



FLOOR BEAM SCHEDULE  
(2 PLY) 1 3/4" X 16"  
UNLESS OTHERWISE NOTED

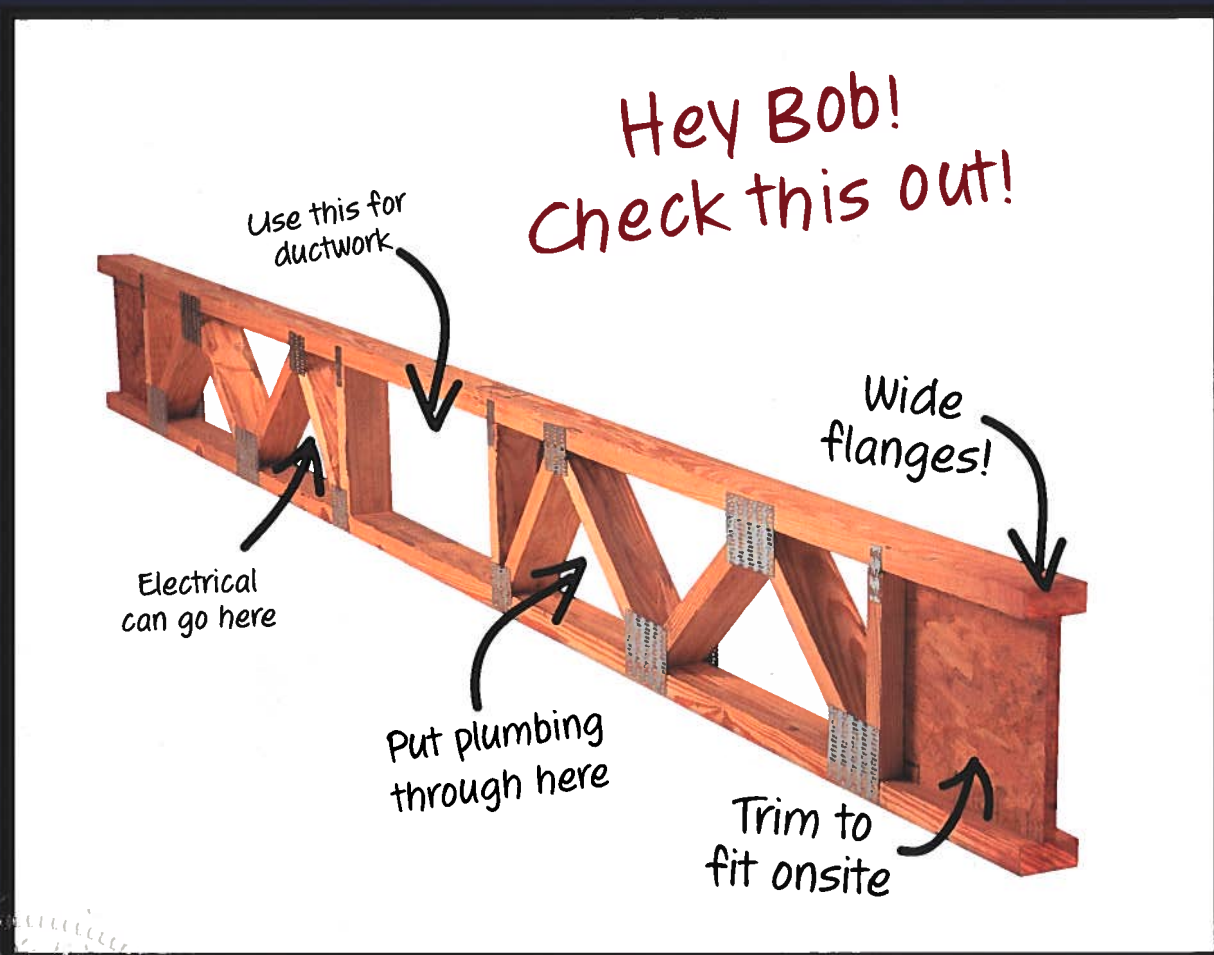
FLOOR TRUSSES = 19.2" O.C. SPACING

8/8/06

#6-289 DONNIE WILLIAMS - WILLIAMS FLOOR

Scale: 3/32" = 1'

# TrimJoist



If Bob tries TrimJoist, he'll find out  
why TrimJoist is the best choice for floor truss products.

**IT'S CONTRACTOR-FRIENDLY.**

The end sections can be trimmed onsite.

**IT SAVES MONEY AND TIME.**

With strut-webbing, there's no need for subcontractors to cut holes.

**IT'S STRONGER.**

You don't weaken the joist with holes.

**IT HAS WIDE FLANGES.**

With 3.5-inch flanges on the top and bottom, subfloor application is simple. Nailing and gluing are easier.

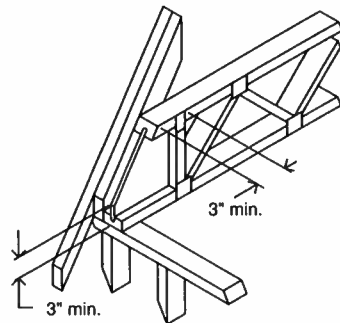
**IT COMES WITH A TEAM OF ENGINEERS.**

Just call our toll-free number for custom engineering.

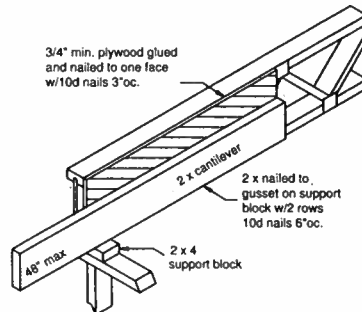
**TrimJoist**  
ENGINEERED WOOD PRODUCTS

1 800 844-8281  
[www.trimjoist.com](http://www.trimjoist.com)

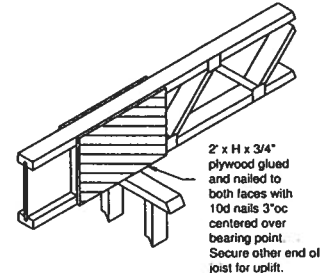
# Installation Details Available in CAD format at [trimjoist.com](http://trimjoist.com) and [sweets.com](http://sweets.com)



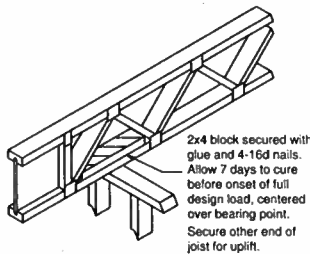
**D1** RAFTER/FIRE CUT



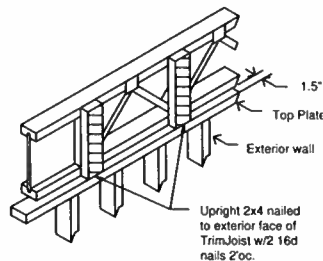
**D2** DECK CANTILEVER



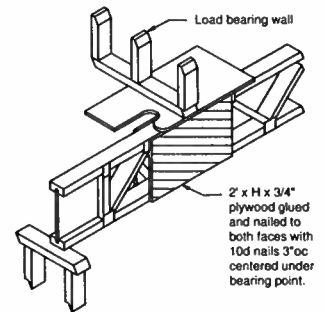
**D3** CANTILEVER



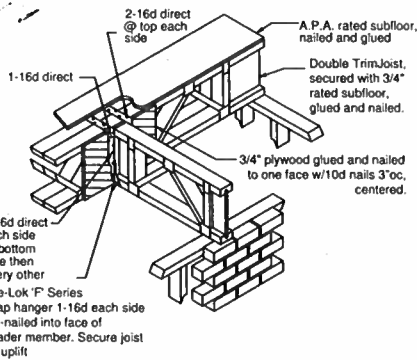
**D4** CANTILEVER



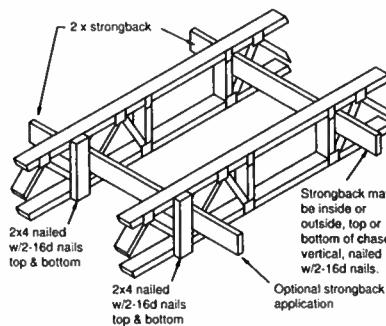
**D5** EXTERIOR KNEE WALL



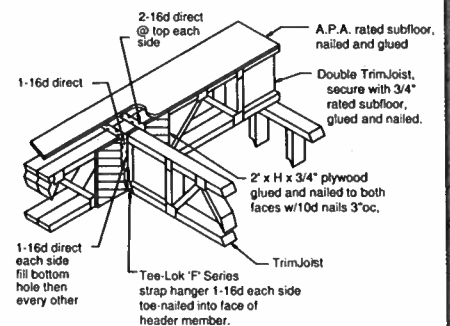
**D6** POINT LOAD APPLICATION



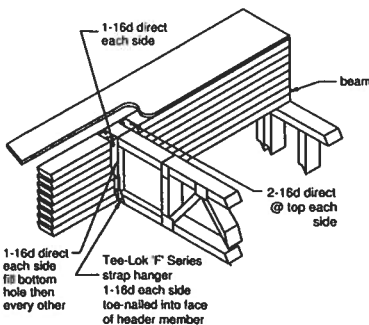
**D7** HANGERED CANTILEVER



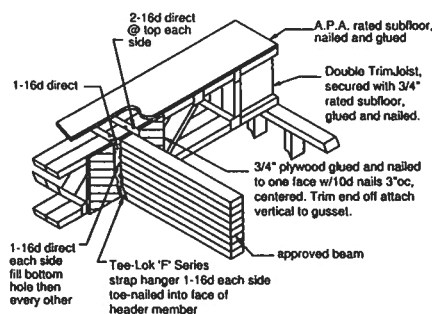
**D8** STRONGBACK APPLICATION



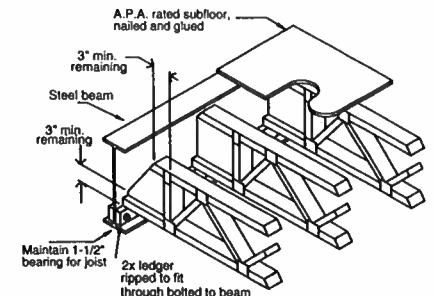
**D9** HANGERED/ JOIST TO JOIST



**D10** HANGERED/ JOIST TO BEAM



**D11** HANGERED/ BEAM TO JOIST



**D12** FLUSH TO STEEL BEAM





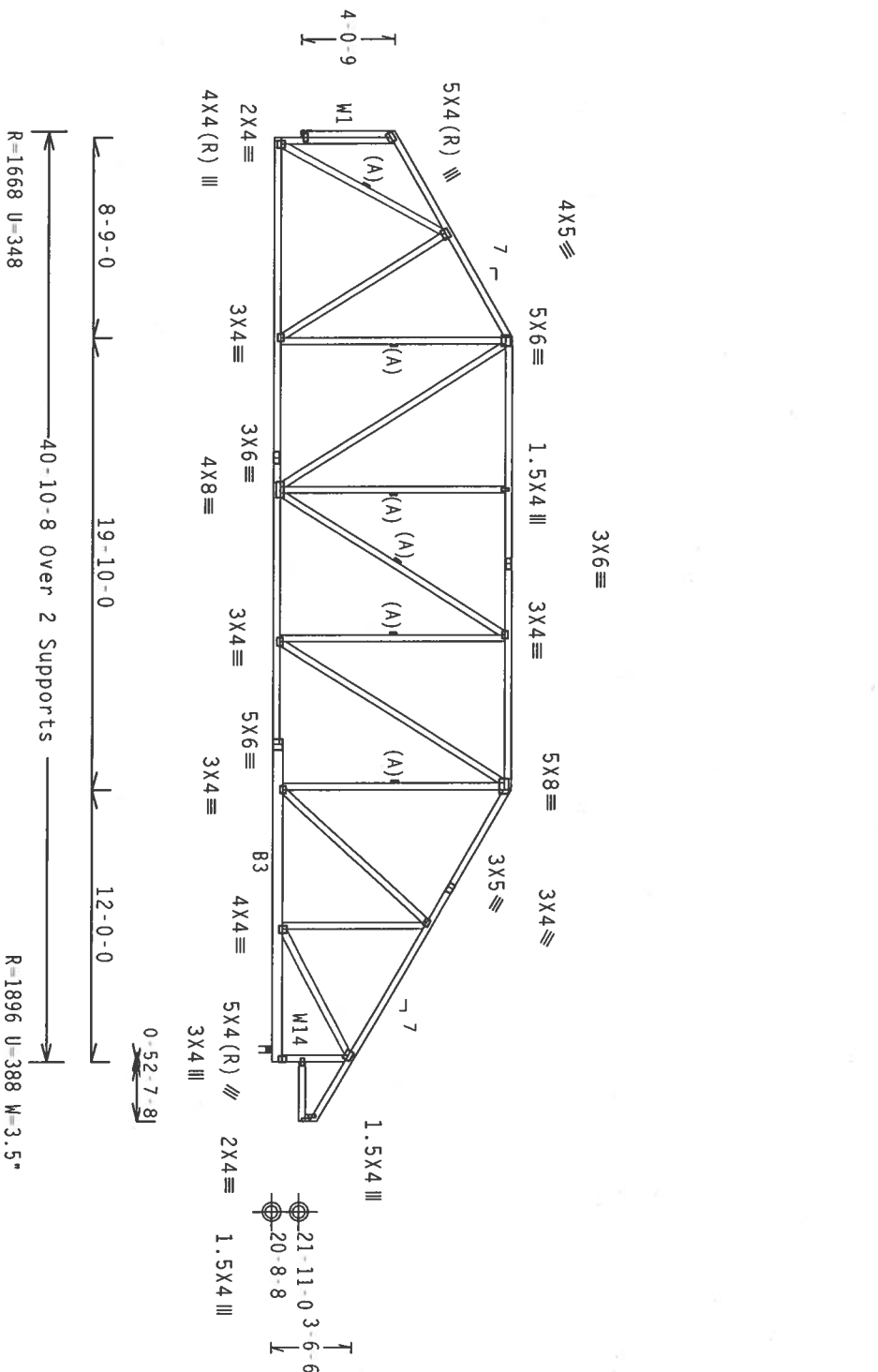


Top chord 2x4 SP #2 Dense :B3 2x6 SP #2:  
Bot chord 2x4 SP #3 :W1, W14 2x4 SP #2 Dense:  
Webs 2x4 SP #3 :W1, W14 2x4 SP #2 Dense:  
:Lt Bearing Leg 2x4 SP #3::Rt Level Return 2x4 SP #3:

(A) Continuous lateral bracing equally spaced on member.

In lieu of structural panels or rigid ceiling use purlins to brace  
TC @ 24" OC, BC @ 24" OC.

110 mph wind, 26.97 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 6.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.  
Right end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

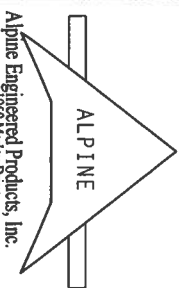


PLT TYP. Wave

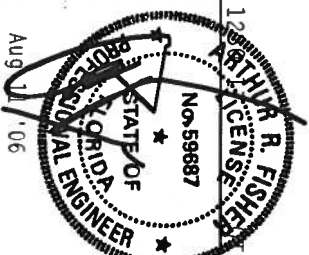
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.12

**\*\*WARNING\*\*** TROUSERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
RETRACTORS, 1.53 (PULLOVER COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583  
DORCHESTER, MA 01919) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED,  
HARDWARE, W/ 53119) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED,  
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  
DESIGN 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 20/18/16GA (W/H/S/X) ASTM A653 GRADE 40/60 (K, K/H, S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGN. SEE THE SUSTAINABILITY 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  
Phone: 888-367-5677  
Fax: 888-367-5677



FL/-/4/-/R/-

Scale = .125"/Ft.

TC LL	20.0 PSF	REF	R487--	31558
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCSR487	06223032
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SECN-	122612	REV
DUR.FAC.	1.25			
SPACING	24.0"			
JREF-	1S20487	201		



Left end vertical not exposed to wind pressure.

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

Right end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

**\*\* IMPORTANT \*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11, 2002, SEC.3.  
A SEAL ON THIS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

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

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

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FL/-/4/-/-/R/-		Scale = .125"/Ft.	
TC LL	20.0 PSF	REF	R487 - - 31560
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223034
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122666 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZ0487 201

MA	PF
TC	TF
RI	DE
	CC
	PU
	AI
	DA
	DB
	BU

IMPO  
PRODUCT  
RUSS  
SIGN  
CONNECT  
ATES  
INS  
DRAWING  
SIGN  
UILDING

110 mph wind, 26.59 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



Design Crit: TPI-2002(STD)/FBC

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

7.24.1

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

Scale = .125"/Ft.

\*\*\*WARNING\*\*\*: ROSSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO RC51-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 5835 O'NEAR 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, ALL TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS, AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED**

PRODUCTS. INC SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. CONNECTOR PLATE, FASTENERS AND ALTIMET

CONNECTION PLATES MADE OF 20Y17/1008 (W-H/S) AS PER A563 GRADE 40/60 (W. K/H-S) GALV. STEEL. APPL. 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 AS OF 1911-2002 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/TP1 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 31561
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCSR487 06223035
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122680 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZ0487 Z01

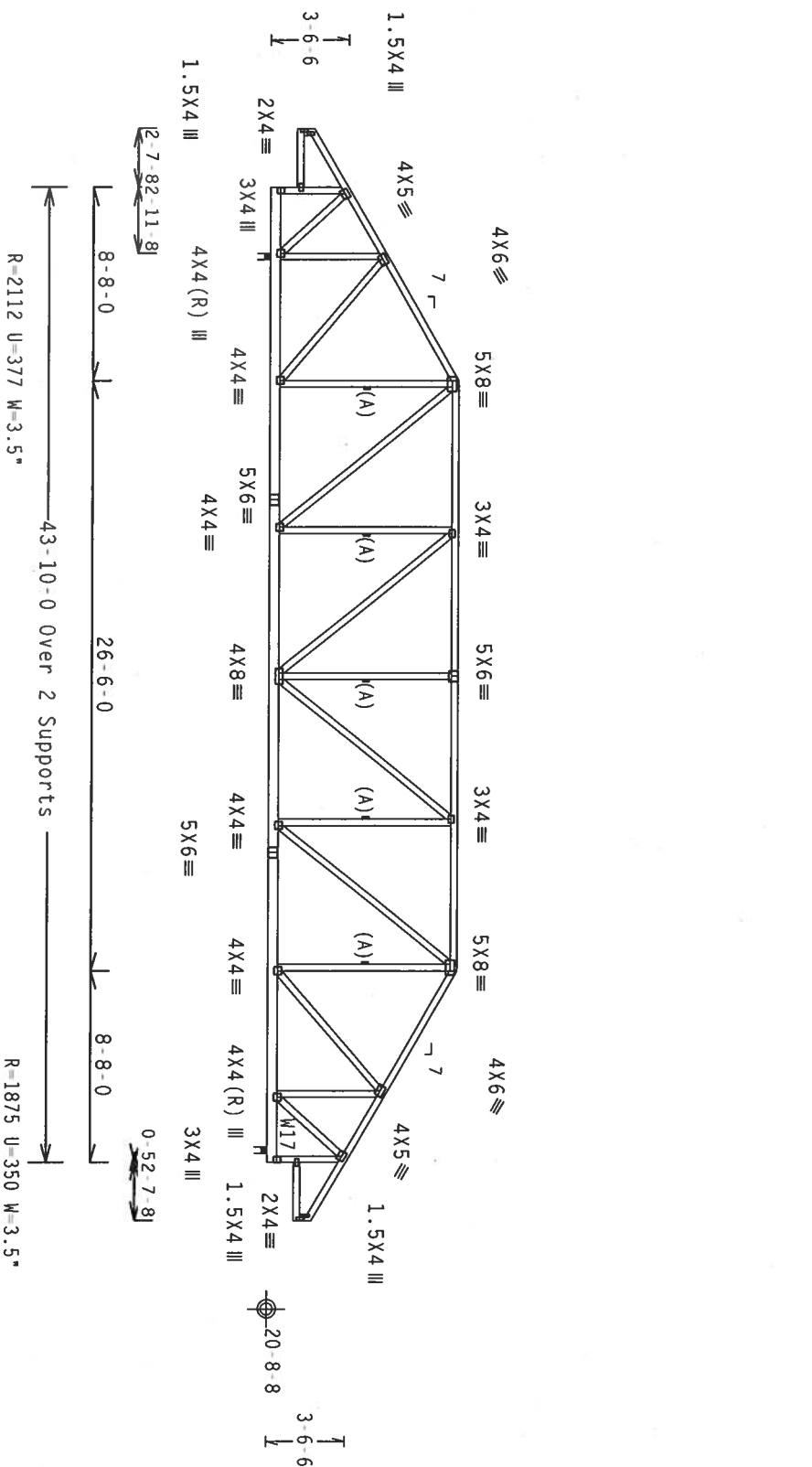


BOL chofu 2x6 SP #2  
Webs 2x4 SP #3 :W17 2x4 SP #2 Dense:

End verticals exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 26.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

THE 1917 LICENSE

FL	-	-	4	-	-	-	-	R	-
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Scale = .125" / Ft.

"WARNING" - HOSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRAGGING. REFER TO BC51 1-00 (BUILDING COMPONENT SAFETY INFORMATION), BC5100 0-0100 (RIG), SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.


**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS, ADDITIONAL DESIGN SPEC'D BY AERDA AND TPI.

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 ANNEA3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/SPR 1 SEC. 2.



Alpine Engineered Products, Inc.  
1990 Malety Drive  
Haines City, FL 33844

Circle of 1 on # 567

\*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 THE PROVISIONS FOR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND IBC. ALPINE CONTRACTOR SHALL HAVE 30 DAYS (OR 90 DAYS IF AIAA 6055 GRADE 40/50 OR 60/80 W/ 4"X1/2" GALV. STEEL. APPLY THIS DESIGN TO EACH JOINT. THE JOINTS SHALL BE PERMANENTLY IDENTIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSPECT JOINTS FOLLOWED BY (1) SHALL BE PERMANENTLY IDENTIFIED BY THE CONTRACTOR. DRAWING INDICATES ACCEPTANCE OF 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 MSJ1/P13 SEC. 2.

Professional Engineer Seal for Arthur R. Fisher, State of California, No. 59887, dated August 11, 1906.

TC LL	20.0 PSF	REF	R487-- 31562
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223036
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122755 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZ0487 Z01

JREF - 1SZ0487 Z01



Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails  
BRG X-Loc #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
1 0.606" 1 12" 4 Match Truss

Bearing block to be same size and species as bottom chord. Refer to drawing CNBRG8LK103 for additional information.

110 mph wind, 24.93 ft mean hgt, ASCE 7-02, CLOSED bldg, not located

110 mph wind, 24.93 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

In lieu of structural panels or rigid ceiling use purlins to brace T @ 24" OC, BC @ 24" OC.



Scale = .125"/Ft.

TC LL	20.0 PSF
TC DL	10.0 PSF

REF	R487-- 31564
DATE	08/11/06

ALPINE ENGINEERED

[illegible]

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR TRUSS IN CONFORMANCE WITH TPI:

**FAILURE TO BUILD THE  
RACING OF TRUSSES.**

BC LL 0.0 PSF

HC-ENG JB/AF

Aug 17 '06

1

SPACING 24.0"

JRFF-1SZ0487 201

110 mph wind, 15.97 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC  $D_L=5.0$  psf, wind BC  $D_L=5.0$  psf.

End verticals exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

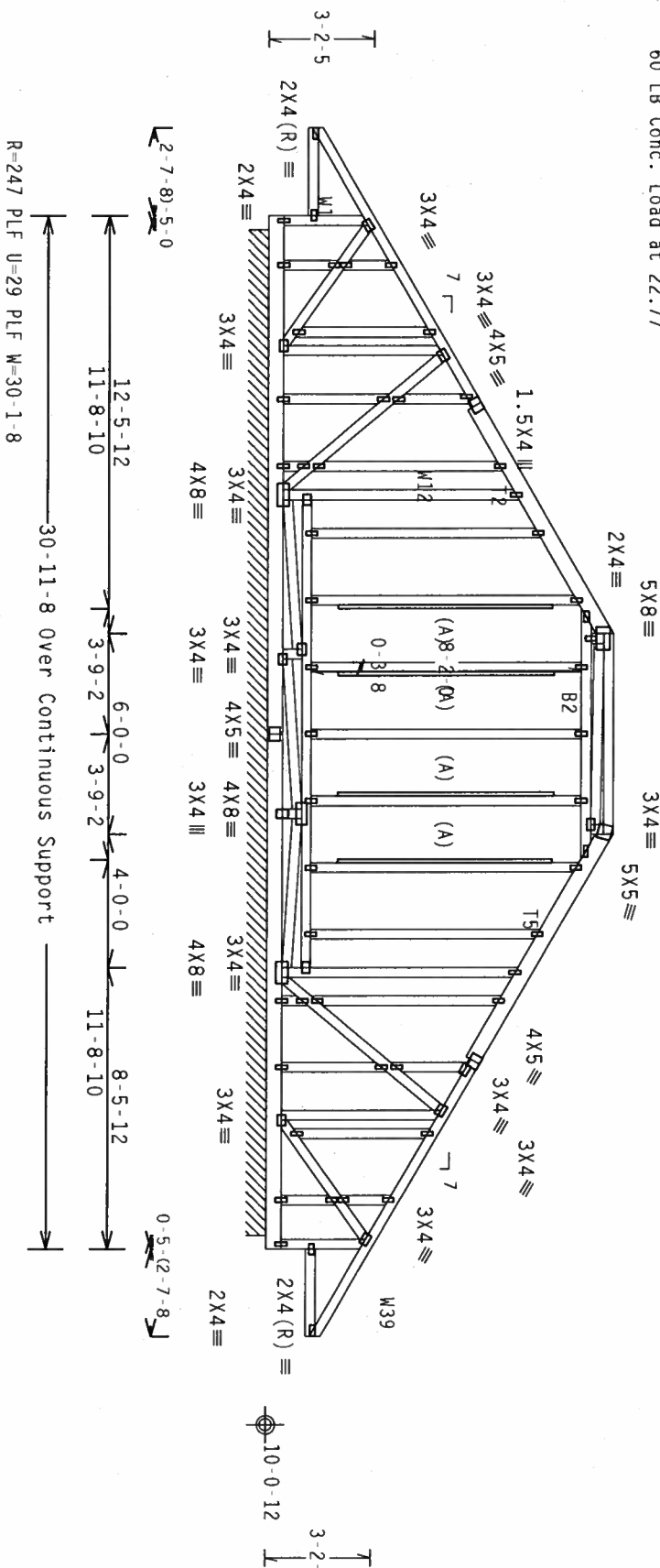
(A) 1x4 SP #3 or better "L" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Collar-tie braced with continuous lateral bracing at 24" OC. on rigid ceiling.

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

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

TC	From	131 PLF at -2.63 to	131 PLF at 8.48
TC	From	154 PLF at 8.48 to	154 PLF at 10.81
TC	From	131 PLF at 10.81 to	131 PLF at 12.48
TC	From	131 PLF at 12.48 to	131 PLF at 20.15
TC	From	154 PLF at 20.15 to	154 PLF at 30.51
TC	From	131 PLF at 30.51 to	131 PLF at 33.58
PLT	From	20 PLF at 12.15 to	20 PLF at 18.81
BC	From	20 PLF at 0.00 to	20 PLF at 8.48
BC	From	120 PLF at 8.48 to	120 PLF at 22.77
BC	From	20 PLF at 22.77 to	20 PLF at 30.96
PLB	From	4 PLF at -2.63 to	4 PLF at 33.58
BC	From	157 LB Conc. load at 8.48	
BC	From	60 LB Conc. load at 22.77	



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

\*\*\*\*\*WARNING\*\*\*\*\* FIBERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO AC308 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PULPIT INSTITUTE, 5893  
O'DONNELL DR., SUITE 200, MADISON, WI 53719, AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 5300 ENTERPRISE LANE,  
MADISON, WI 53719) FOR SAFETY PRACTICES RELATIVE TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, INDICATED  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
LIPID CEILING.

ARTHUR R. FISHER  
LICENSE  
No. 59687  
STATE OF

Scale = .1875"/Ft.

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

Scale = .1875"/Ft.

ICLL 20.0 PSF

REF R487-- 31565

10.0 PST

DATE 08/11/06

BC DL 10.0 PST

DRW HCUSR487 0622303

0.0 PST  
77 78

ML-ENG JB/At

101.LD. 40.0 PSF


SEQN - 122225 / R1

DUR. FAC. 1.25

---

SPACING 24.0"

JRFF- 1SZ0487 Z01



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

Scale of 1" = 100' on # 567

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APPLICABLE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FOLLOWING PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TRUSS IS TO BE FABRICATED, MANUFACTURED, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE TRUSS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING PROVISIONS OF AISC (NATIONAL DESIGN SPEC. FOR STEEL AND STEEL COMPOSITE BEAMS), AISC (NATIONAL SPECIFICATION FOR STEEL DECKING), AND AISC (NATIONAL SPECIFICATION FOR STEEL PLATES TO EACH FACE OF TRUSS AND JOINTS). JOINTS SHALL BE LOCATED ON THIS DESIGN POSITION PER A SEAM ON ONE END. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPII 2002 SEC.3. DRAMING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPII 1 SEC. 2.

Aug 11 '06

BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 122257 R
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1S2Q4R7 Z01

110 mph wind, 16.13 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.21" due to live load and 0.38" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 8-5-12 to 22-9-4.

8-5-12 to 22-9-4.

8-5-12 to 22-9-4.



Scale = .1875"/Ft.

REF	R487--	31566
DATE	08/11/06	

[illegible]

Scale of 1 to 5 on #567

HC-ENG JB/AF  
SEON- 122242 RR  
JRFF- 1SZ0487 Z01



Top chord 2x4 SP #2 Dense: T2, T5 2x6 SP #1 Dense:  
Bot chord 2x6 SP #1 Dense: B2 2x4 SP #2 Dense:  
Webs 2x4 SP #3: W1, W18 2x4 SP #2 Dense:  
: Lt Level Return 2x4 SP #3:: Rt Level Return 2x4 SP #3:

End verticals exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

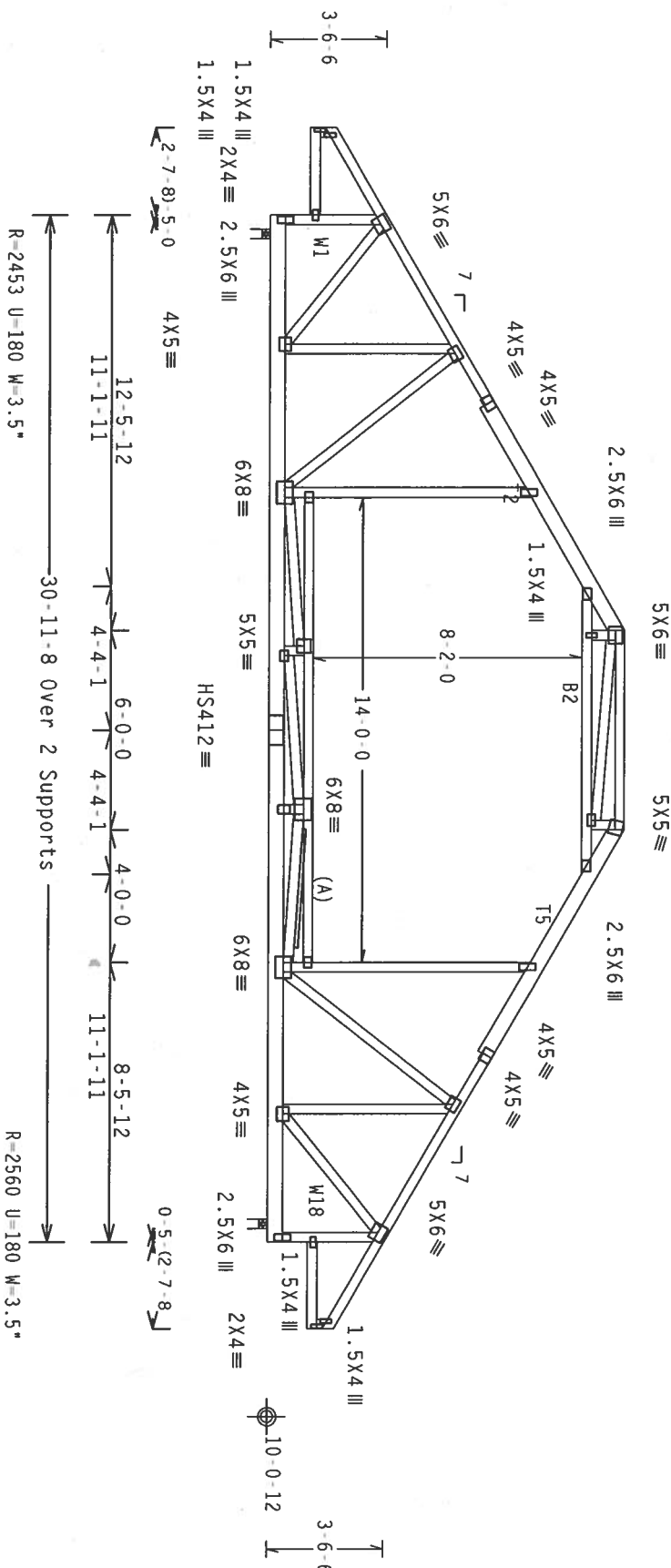
(A) 1x4 SP #3 or better "T" brace, 80% length of web member.  
Attach with 8d Box or Gun (0.13"x2.5", min.) nails @ 6" OC.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from  
8-5-12 to 22-9-4.

110 mph wind, 16.13 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, Exp B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.

Calculated horizontal deflection is 0.12" due to live load and  
0.25" due to dead load.

Collar tie braced with continuous lateral bracing at 24" OC. or  
rigid ceiling.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.24

PLT TYP. 20 Gauge HS, Wave

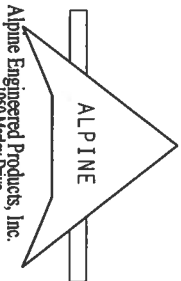
\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BSI 1.03 (OUTDOOR COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 1603  
N. 11TH AVE., SUITE 100, MINNEAPOLIS, MN 55412, FOR SAFETY PRACTICES PRIOR TO FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
MODIFYING, AT 53719 FOR SAFETY PRACTICES PRIOR TO FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
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  
DESIGN IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

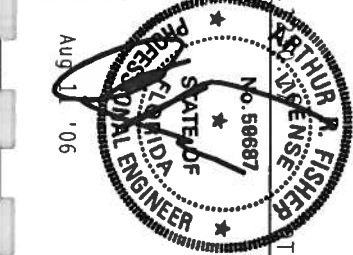
CONNECTOR PLATES ARE MADE OF 20/18/16GA (N/H/S/K) ASTM A653 GRADE 40/60 (N, K/H/S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGNER. THE SUSTAINABILITY 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  
Phone #567



TC LL	20.0 PSF	REF	R487--	31567
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCSR487	06223041
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEON-	122235	REV
DUR.FAC.	1.25			
SPACING	24.0"			

JREF-1S20487 201

```

: Lt Level Return 2x4 SP #2 Dense:
: Rt Level Return 2x4 SP #2 Dense:

```

	(LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25)	
TC From	136 PLF at 2.63 to 136 PLF at 27.46	
PLT From	20 PLF at 6.88 to 20 PLF at 17.96	
BC From	20 PLF at 0.00 to 20 PLF at 6.42	
BC From	120 PLF at 6.42 to 120 PLF at 18.42	
BC From	20 PLF at 18.42 to 20 PLF at 24.83	
PLB From	4 PLF at -2.55 to 4 PLF at 27.39	(FLOOR)
BC -	196 LB Conc. Load at 6.42, 18.42	

See DWGS A11030EE0405 & GBLETTIN0405 for more requirements.



PLT TYP. Wave

**\*\* IMPORTANT \***FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

110 mph wind, 16.27 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.

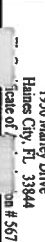
End verticals exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

(A) SP #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.

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

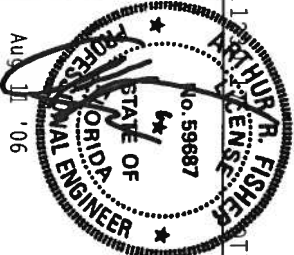
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



**\*IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APPLICABLE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE ROSS IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS WILL BE AT THE USER'S RISK.

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF MOD (NATIONAL DESIGN SPEC. BY AREA) AND T&I.	APPLY
PLAYERS TO EACH FACE OF THUS 20'10"(608.3 CM) X 5'11"(175.3 CM) GALV. OR K/R-51 GALV. STEEL.	APPLY
ANY INSPECTION OF PLATES FOLLOWING (1) SHALL BE PER ANNUAL OR Q1 TRIP 2009 AND 2010.	APPLY
DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY ONLY FOR THE ROSS COMPONENTS SHOWN.	APPLY
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.	APPLY



FL/-4/-/-/R/-		Scale = .125"/ft.
TC LL	20.0 PSF	REF R487-- 31568
TC DL	10.0 PSF	DATE 08/11/06
BC DL	10.0 PSF	DRW HCUR487 06223042
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 122329 REV
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZ0487 Z01

```

Weds 2x4 Sp #3: W1, W14 2x4 Sp #2 Dense:
:lt level Return 2x4 Sp #2 Dense::lt level Return 2x4 Sp #3
:Rt level Return 2x4 Sp #2 Dense::Rt level Return 2x4 Sp #3

```

Calculated horizontal deflection is 0.28" due to live load and 0.26" due to dead load.

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

(A) SP #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



Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1$ 

PROPERTY: 1

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

Scale = .1875" / Ft.

\*WARNING\*—PROSPECTS REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND MAINTAINING. SEE THE FOLLOWING INFORMATION. PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 5803 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE, IN 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 LIFTING CEILING.

**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**

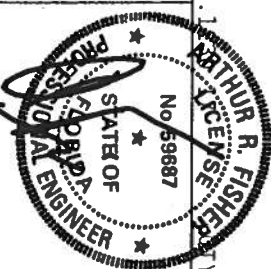
ING! MEERD

ALPINE

Alpine Engineered Products, Inc.  
1060 Madison Drive

1930 Marley Drive  
Haines City, FL 33844

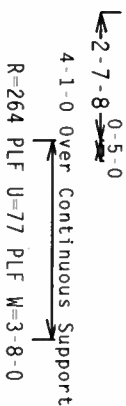
Scale of 1 to 5  
ID # 567



Aug 11 '06

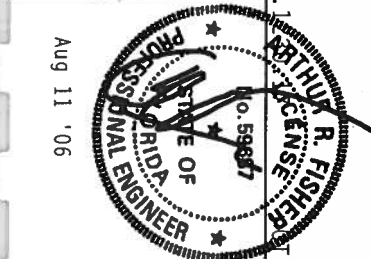
TC LL	20.0 PSF	REF	R487 -	31569
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCUSR487	06223043
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN -	122287	REV
DUR.FAC.	1.25			
SPACING	24.0"	JRFF -	1SZ0487	Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 3.56 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



Scale = .25"/Ft.

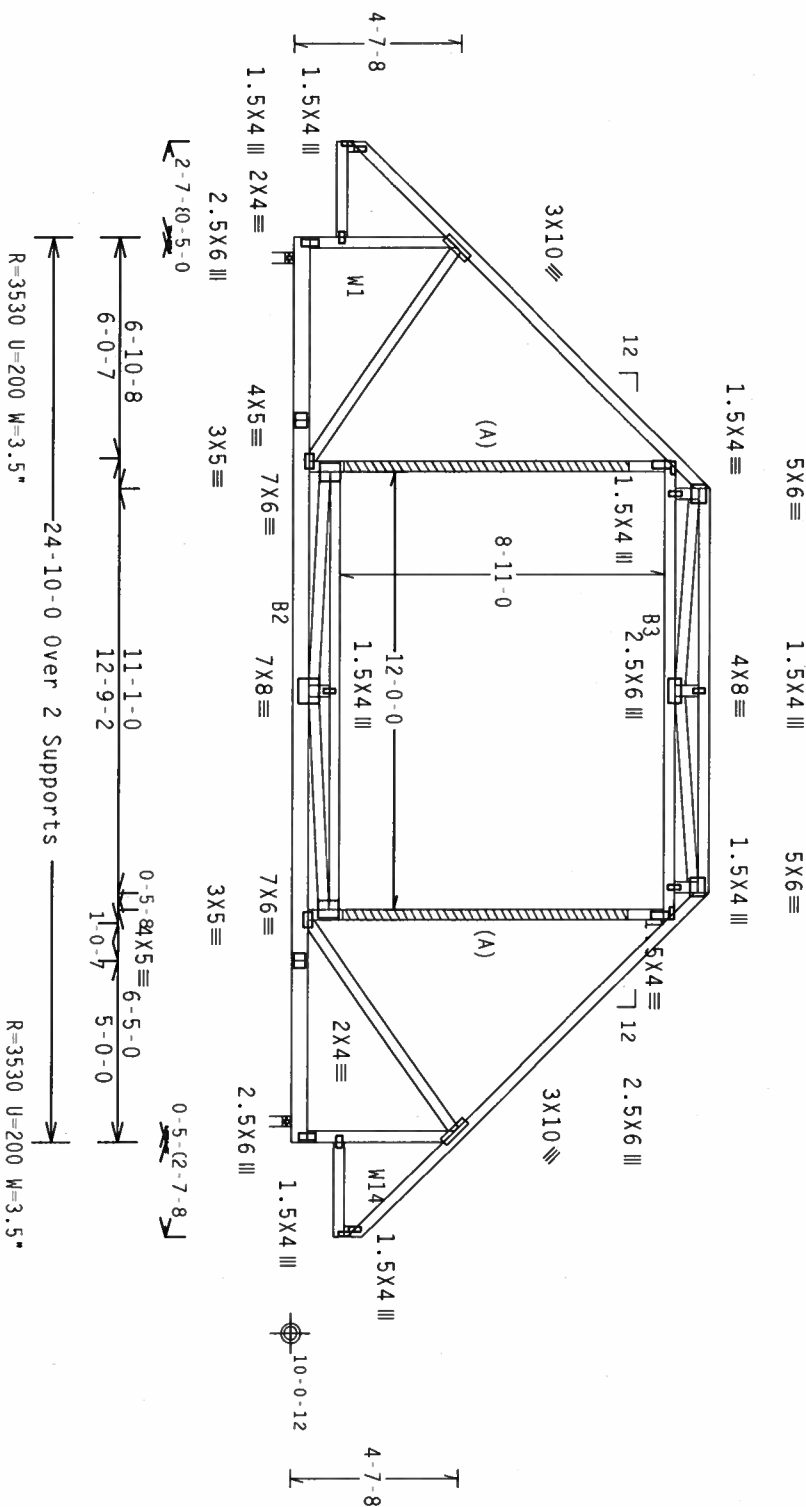
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



TC LL	20.0 PSF	REF	R487 - 31570
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223044
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122337 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZ0487 Z01

Top chord 2x4 SP #2 Dense :B2 2x6 SP #2:  
Bot chord 2x6 SP #1 Dense :B2 2x6 SP #2:  
:B3 2x4 SP #2 Dense:  
Webs 2x4 SP #3 :W1, W14 2x4 SP #2 Dense:  
:Lt Level Return 2x4 SP #2 Dense: Lt Level Return 2x4 SP #3:  
:Rt Level Return 2x4 SP #2 Dense: Rt Level Return 2x4 SP #3:  
110 mph wind, 16.48 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 3.71 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.  
(A) SP #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.  
Collar-tie braced with continuous lateral bracing at 24" OC.  
In lieu of structural panels or rigid ceiling use purlins  
to brace TC @ 24" OC, BC @ 24" OC.

**2 COMPLETE TRUSSES REQUIRED**  
Nailing Schedule: (12d Common (0.148"x3.25".min.)-nails)  
Top Chord: 1 Row @12.00" O.C.  
Bot Chord: 1 Row @12.00" O.C.  
Webs : 1 Row @ 4" O.C.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.  
End verticals exposed to wind pressure. Deflection meets L/240  
Criteria for brittle and flexible wall coverings.  
Calculated horizontal deflection is 0.22" due to live load and  
0.20" due to dead load.  
Trusses to be spaced at 38.5" OC maximum.  
BC attic room floor loading: LL = 40.00 psf: DL = 10.00 psf: from  
6-5-0 to 18-5-0.



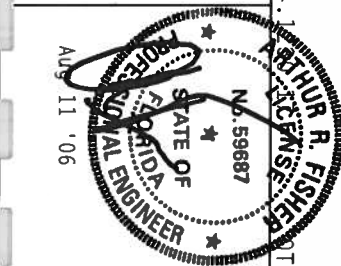
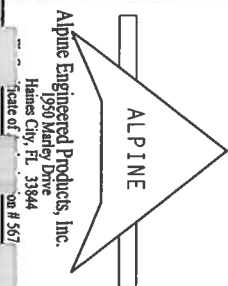
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51.1 OF THE TPI-2002(STD) FOR MORE INFORMATION. THE TPI-2002(STD) IS THE PROPERTY OF THE TPI-2002(STD) AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE TPI-2002(STD) IS THE PROPERTY OF THE TPI-2002(STD) AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE TPI-2002(STD) IS THE PROPERTY OF THE TPI-2002(STD) AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

**\*\*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 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 Z.

INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TP1 SEC. 2.



FL	/	4	/	-	/	R	/	-
TC LL						20.0	PSF	REF R487-- 31571
TC DL						10.0	PSF	DATE 08/11/06
BC DL						10.0	PSF	DRW HCUR487 06223045
BC LL						0.0	PSF	HC-ENG JB/AF
TOT.LD.						40.0	PSF	SECN- 122299 REV
DUR.FAC.						1.25		
SPACING						38.5"		JREF- 1S70487 201



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3: W1 2x4 SP #2 Dense:  
Lt Level Return 2x4 SP #3:

Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

(A) Continuous lateral bracing equally spaced on member.

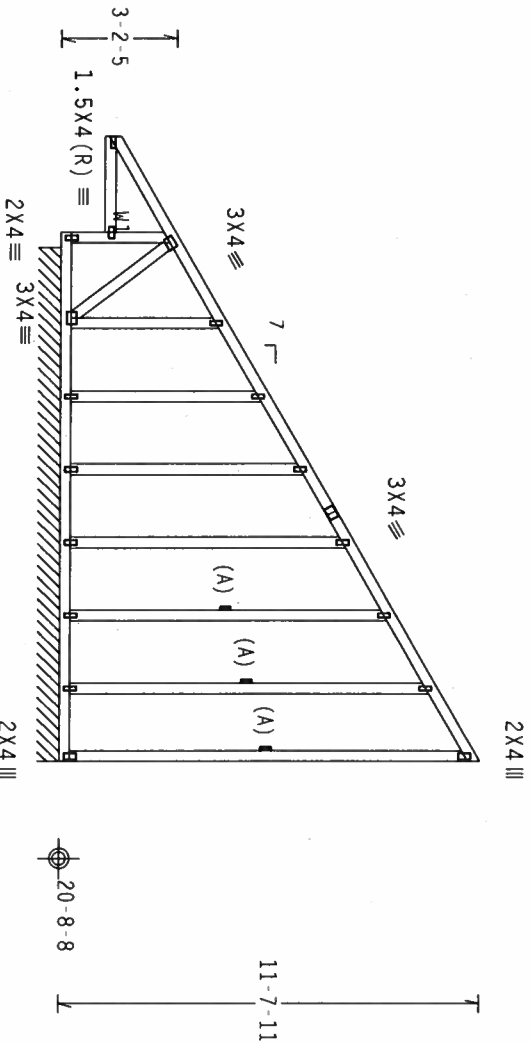
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

See DWGS A11030EE0405 & GBLLEIIN0405 for more requirements.

110 mph wind, 27.36 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.

In lieu of structural panels or rigid ceiling use purlins to brace  
TC @ 24" OC, BC @ 24" OC.



L-2-7-8-5-0

14-5-12 Over Continuous Support  
R=204 PLF U=28 PLF W=14-0-12

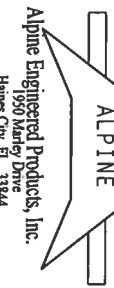
Note: All Plates Are 1.5x4 Except As Shown.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 BUILDING COMPONENT SAFETY (MASONRY, CONCRETE, STEEL, WOOD, GLASS, ETC.) FOR ADDITIONAL INFORMATION. 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-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AREA) AND TPI-1. ALPINE



FL/-/4/-/R/-

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	31572
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCUSR487	06223046
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	122359	REV
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1520487	201

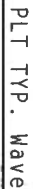
110 mph wind, 27.70 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.


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

Scale = .1875"/Ft.

No. 59687

ALPINE ENGINEERED

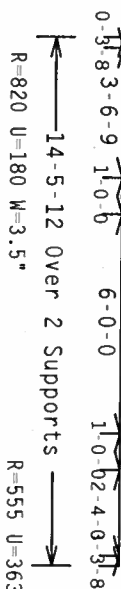
BC L

Aug 11 '06

## SPACING

JRFF - 1SZ0487 Z01

110 mph wind; 27.70 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.



CC-0 - 107E"/E+

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z ANY INSPECTION OF PLATES FOLLOWED BY CTS SHALL BE DEEMED AS A REVIEW OF THE DESIGN.

FL Certificate of Authorization # 561



ARTHUR R. FISHER  
LICENSE

AVG 11.06

TC LL	20.0 PSF	REF	R487 - 31574
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223048
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122375 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZ0487 201

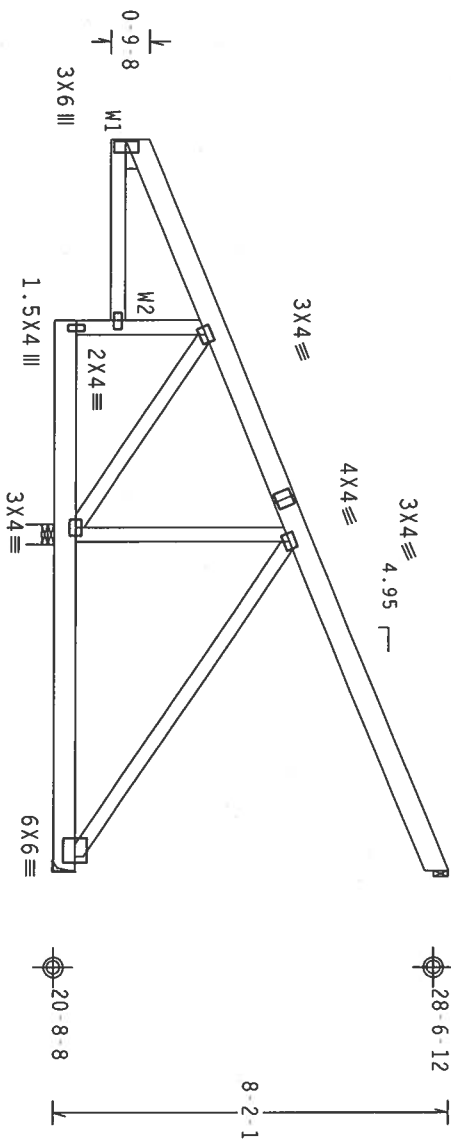


Top chord 2x6 SP #2  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3 :W1 2x8 SP #1 Dense:  
:W2 2x4 SP #2 Dense:  
:Lt Level Return 2x4 SP #3:  
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

Sub fascia beam assumptions: 7-0-0 sub-fascia beam on the 2-11-8  
cantilever side. 7-0-0 sub-fascia beam on the 2-11-8 cantilever  
side.

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

110 mph wind, 25.78 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.  
The following members need concentrated loads at the heel: 7-0-0  
span/setback member on the 2-11-8 cant side requires 108 lbs and  
the 7-0-0 span/setback member on the 2-11-8 cant side requires  
108 lbs.  
Hijack supports 10-7-8 setback jacks with 2-11-8 cantilever one  
face; 2-11-8 cantilever opposite face.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

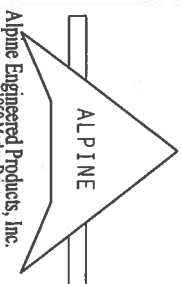
Cq/RT=1.00(1.25)/10(0) 7.24.1

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. DEFLECT TO BEAT 1/4" (BOLTING COMPONENT SAFETY INFORMATION). BOLTED BY TPI (TRUSS PLATE INSTITUTE, 503 DOWNEY RD., SUITE 100, CHICAGO, IL 60631, TEL: 773-344-1100, FAX: 773-344-1101, WWW.TPI-TRUSS.COM). TRUSS DESIGNER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

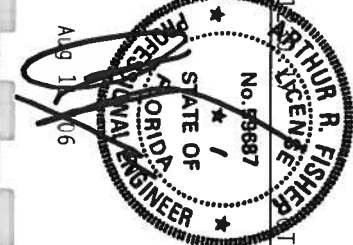
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (N-H/S) ASTM A653 GRADE 40/60 (U, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-Z.

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



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

Scale of 1/4" = 1'-0"



FL/-/4/-/-/R/-		Scale = .25"/Ft.	
TC LL	20.0 PSF	REF	R487-- 31576
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223073
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122484 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1520487 201

Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3 : W1 2x4 SP #2 Dense:  
: Lt Level Return 2x4 SP #2 Dense:

Left end vertical not exposed to wind pressure.

The following trusses need concentrated loads at the end of their overhangs: 5-0-0 span/setback member on the 0-5-0 cant side requires 128 lbs and the 5-0-0 span/setback member on the 0-5-0 cant side requires 128 lbs.

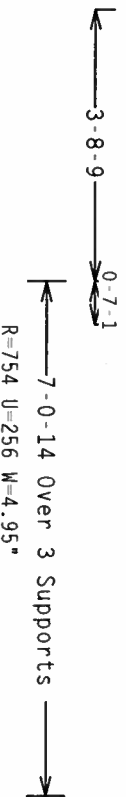
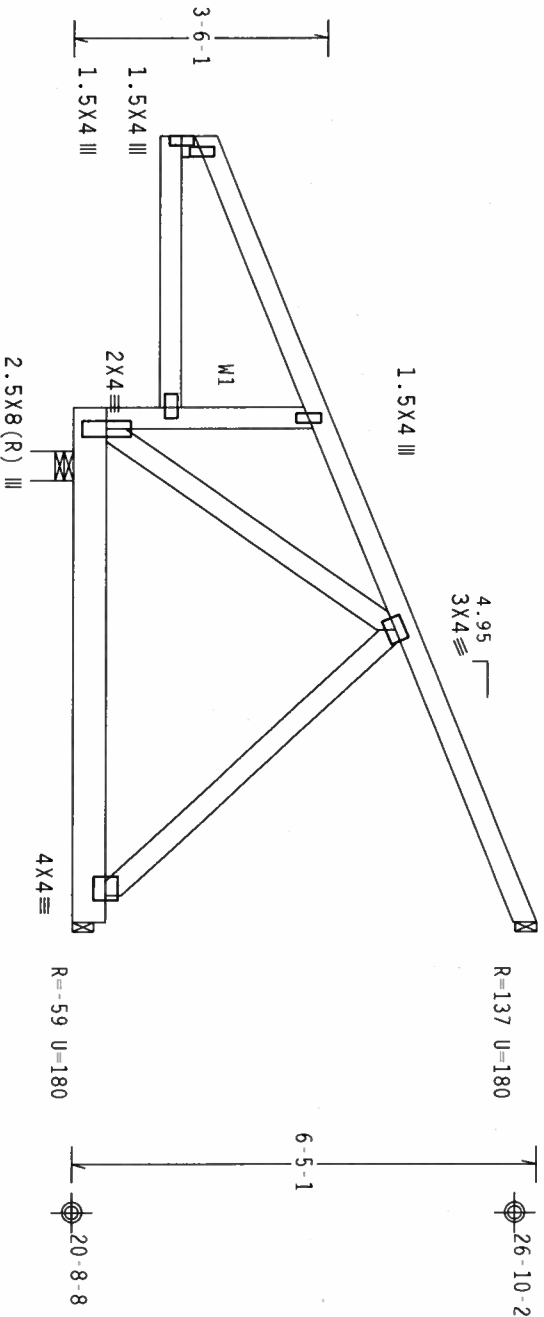
Hipjack supports 5-0-0 setback jacks with 0-5-0 cantilever one face: 0-5-0 cantilever opposite face.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 24.91 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.

Sub-fascia beam assumptions: 7-7-8 sub fascia beam on the 0-5-0 cantilever side. 7-7-8 sub fascia beam on the 0-5-0 cantilever side. Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.24.12

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

Scale = .375"/ft.

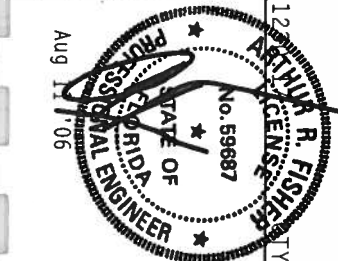
**WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REMOVAL OF ANY TRUSS COMPONENT WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER IS PROHIBITED. THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*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 (W/4/5/5) 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, Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

Scale of 1/4" = 1'-0"  
Job # 567



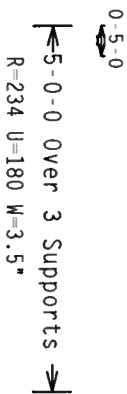
TC LL	20.0 PSF	REF	R487-- 31577
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223050
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122513 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1520487 201



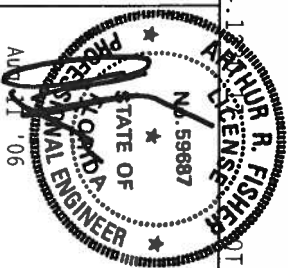
110 mph wind, 25.70 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Scale = .375"/Ft.

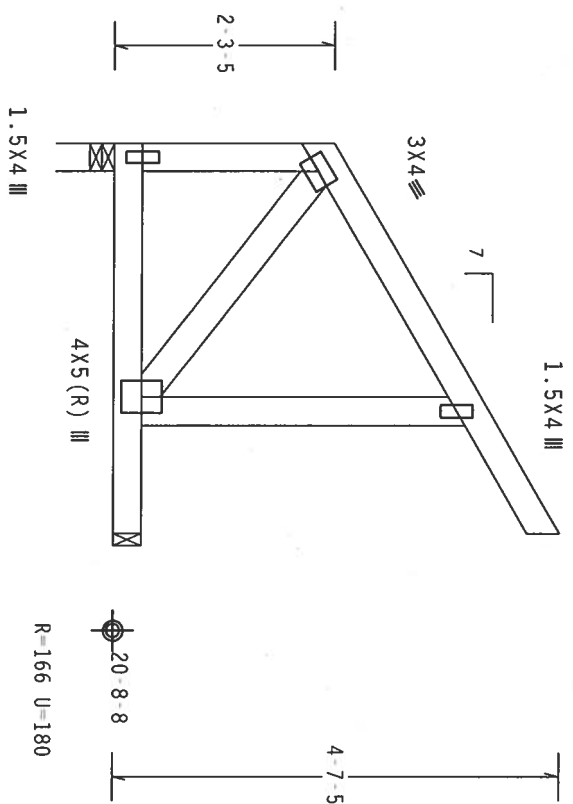


TC LL	20.0 PSF	REF	R487 - - 31578
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223028
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN -	122537
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZ0487 Z01

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

Left end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 24.15 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 or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



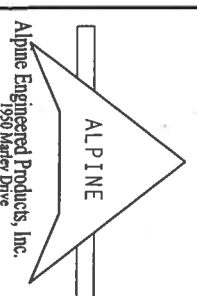
4'-0-0 Over 2 Supports  
R=166 U=180 W=3.5"

PLT TYP. Wave

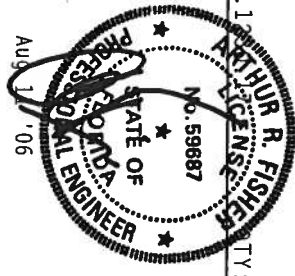
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

WARNING: TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RIGID TO DESIGN FOR BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DOWNEY RD, SUITE 100, MARIETTA, GA 30067, 770-426-1111, WWW.TPI-TRUSS.COM). THIS DOCUMENT IS THE PROPERTY OF TPI. 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/P) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/V) ASTM A653 GRADE 40/60 (W. K/M/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 BUILDING DESIGNER PER ANSI/ASCE 1-2002 SEC. 2.



Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Phone # 567



TC LL	20.0 PSF	REF R487--	31579
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW HCUSR487	06223029
BC LL	0.0 PSF	HC-ENG JB/AF	*
TOT.LD.	40.0 PSF	SEQN-	122529
DUR.FAC.	1.25		
SPACING	24.0"		

Scale = .5"/ft.

JREF-1S20487 201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3: W1 2x4 SP #2 Dense:  
: Lt Level Return 2x4 SP #3:

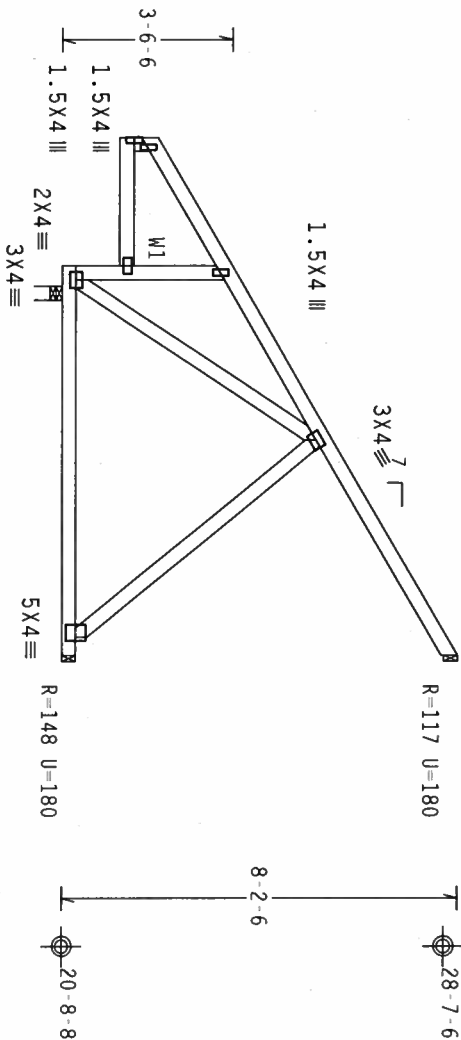
Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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

110 mph wind, 25.81 ft mean hgt, ASCE 7-02, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.

Provide ( 2 ) 16d common nails(0.162"x3.5") toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"); toe nailed at Bot chord.



2-7-8 0-5-0

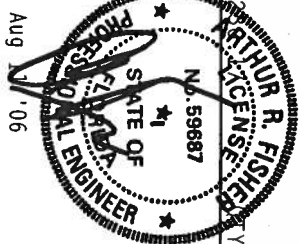
8-0-0 Over 3 Supports  
R=571 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.12

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  
N. 10TH ST., SUITE 200, WISCONSIN, WI 53090) FOR SAFETY PRACTICES. TO PREVENT INJURY AND DAMAGE, THE  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

IMPORTANT: TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ALPINE ENGINEERED  
DESIGN CONFORMS WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S) ASTM A653 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



FL/-/4/-/R/-

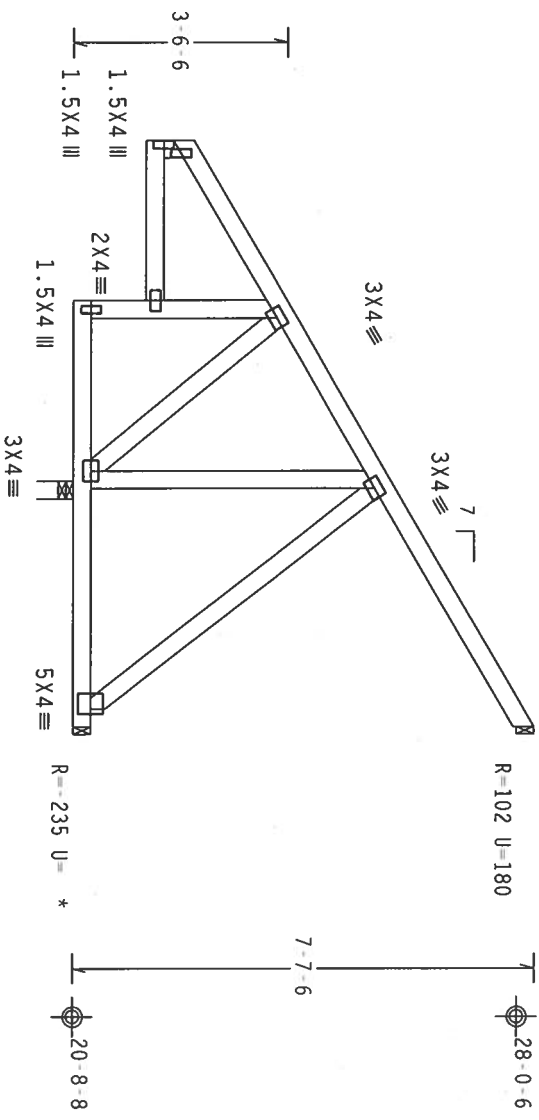
Scale = .25"/ft.

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TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCUSR487	06223051
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	122383	REV
DUR.FAC.	1.25			
SPACING	24.0"			
		JREF-	1520487	201



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Level Return 2x4 SP #3:  
110 mph wind, 25.52 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.  
Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.  
\* PROVIDE CONNECTION FOR -235# REACTION AT A DURATION  
FACTOR OF 1.25.



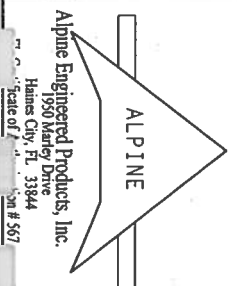
2'-7-8  
2'-11-8  
7'-0-0 Over 3 Supports  
R=886 U=180 W=3.5"

PLT TYP. Wave

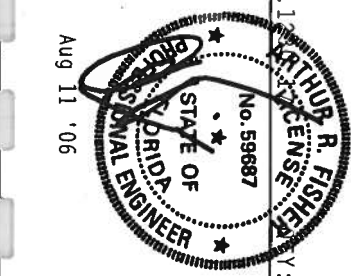
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO THE TPI-2002(2002) TRUSS DESIGN SPECIFICATION (TDS) FOR THE LATEST EDITIONS OF THE TDS.  
D. O'NEILL 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\*\* \*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  
DESIGN IN CONFORMANCE WITH TPI-2002(2002) TRUSS DESIGN SPECIFICATION (TDS) FOR THE LATEST EDITIONS OF THE TDS.  
OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, UNLESS OTHERWISE INDICATED.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ASEP) AND TPI-2002(2002) TRUSS  
DESIGN SPECIFICATION (TDS) FOR THE LATEST EDITIONS OF THE TDS. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS  
DESIGN SHALL BE OBTAINED BY THE USER OF THIS COMPONENT FOR THE TRUSS COMPONENT  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Phone # 567



TC LL	20.0 PSF	REF	R487--	31582
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCUSR487	06223053
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	122470	REV
DUR.FAC.	1.25			
SPACING	24.0"	DRFF-	1S20487	Z01

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

In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.

:Lt Level Return 2x4 SP #3:

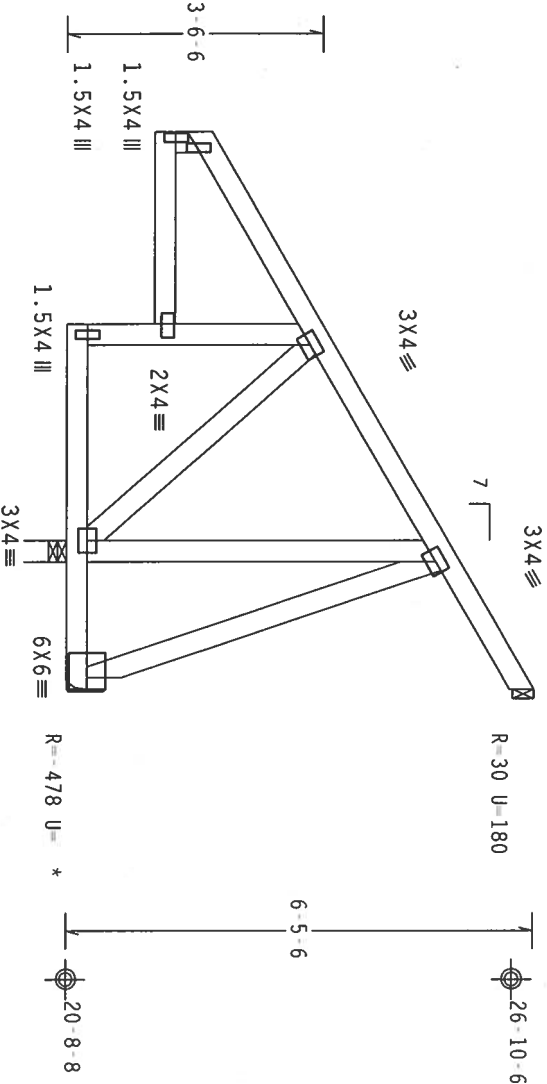
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

110 mph wind, 24.93 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.

\* PROVIDE CONNECTION FOR -478# REACTION AT A DURATION  
FACTOR OF 1.25.

Left end vertical not exposed to wind pressure.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top  
chord.



2-7-8 2-11-8  
5-0-0 Over 3 Supports  
R=1035 U-180 W=3.5"

PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.12

FL/-4/-/R/-

Scale = .375"/ft.

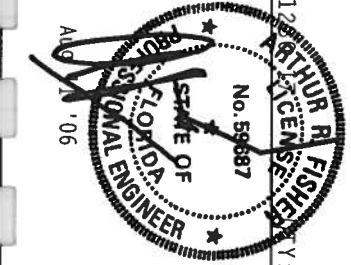
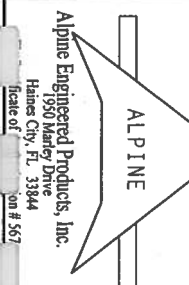
**\*\*WARNING\*\*** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, 2005. ALL TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, 2005. ALL TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, 2005.

**\*\*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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 13TH EDITION, 2005. ALL TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, 2005.

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-- 31583  
DATE 08/11/06  
DRW HCUR487 06223054  
HC-ENG JB/AF  
SEON- 122461 REV



CDACING	24.0"	JRFF- 1S20487 201
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Top chord 2x6 SP #2  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #2 Dense :W2 2x4 SP #3:  
:Lt Level Return 2x4 SP #3:

Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

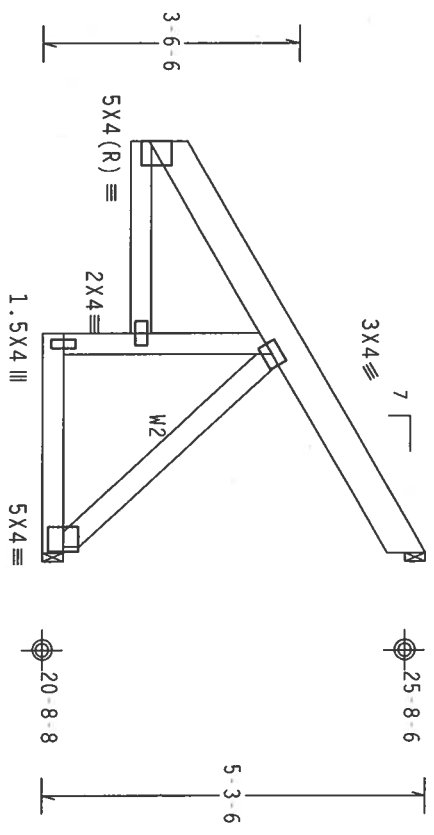
In lieu of structural panels or rigid ceiling use purlins to brace  
TC @ 24" OC, BC @ 24" OC.

110 mph wind, 24.35 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.

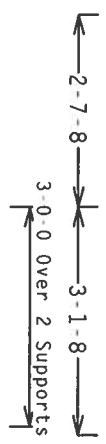
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

BUILDING DESIGNER IS RESPONSIBLE FOR PROVIDING  
CONNECTION ABLE TO HANDLE HORIZONTAL REACTION  
OF +/- 233#.

R-0 U=180  
Rh=233



R=425 U=180  
Rh=233



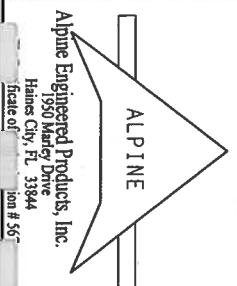
PLT TYP. Wave

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

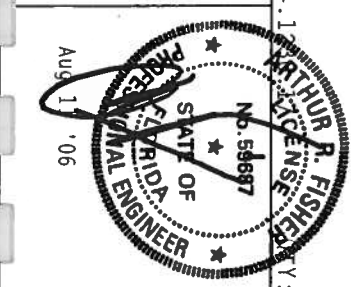
7.24.1

FL/-/4/-/R/-

Scale = .375"/ft.



ALPINE  
Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone # 567-1000  
Fax # 567-1001



TC LL	20.0 PSF	REF	R487--	31584
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCUSR487	06223055
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	122447	REV
DUR.FAC.	1.25			
SPACING	24.0"	DRFF-	1S20487	201



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Weds 2x4 SP #2 Dense :W2 2x4 SP #3:  
:lt Level Return 2x4 SP #3:

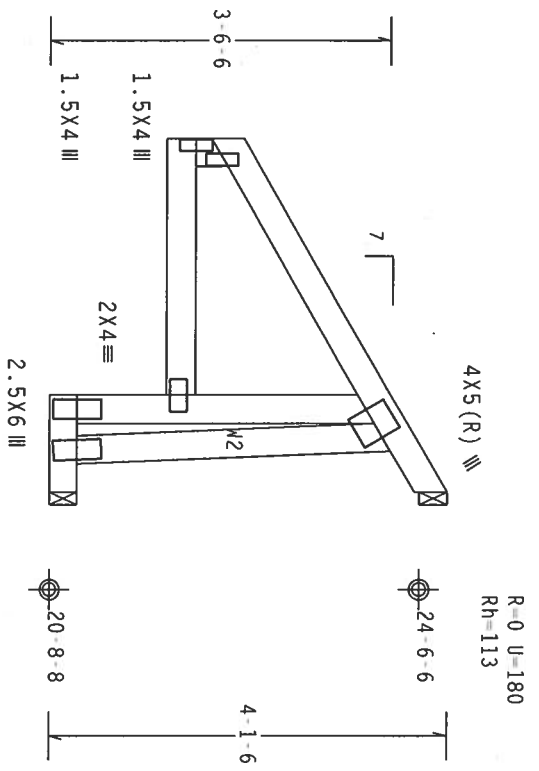
Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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

BUILDING DESIGNER IS RESPONSIBLE FOR PROVIDING  
CONNECTION ABLE TO HANDLE HORIZONTAL REACTION  
OF +/- 114#.

110 mph wind, 23.77 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 or rigid ceiling use purlins to brace  
TC @ 24" OC, BC @ 24" OC.



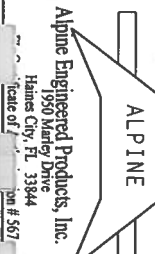
PLT TYP. Wave

Design Crit: TP1-2002 (STD) /FBC  
Cq/RT=1.00(1.25)/10(0)

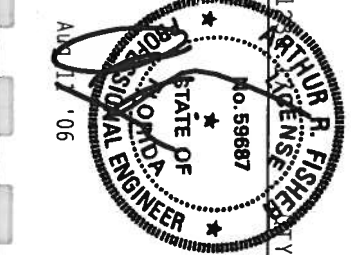
7.24.1

Scale =.5"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
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 MOS (NATIONAL DESIGN SPEC. BY AFPA) AND TPI. ALPINE  
CONNECTION PLATES ARE MADE OF 2018/1664 (W.N/S/K) ASH 5650 GRADE 40/60 (W. K/H.S) GALV. STEEL. APPLY  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS OF TP11-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGNER'S DESIGN. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
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: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC. BY AFPA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/1664 (W.N/S/K) ASH 5650 GRADE 40/60 (W. K/H.S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNER'S DESIGN. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	31585
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCUSR487	06223056
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT. LD.	40.0 PSF	SEQN-	122436	REV
DUR. FAC.	1.25			
SPACING	24.0"	JREF-	1S20487	Z01

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W1 2x4 SP #2 Dense:  
:Lt Level Return 2x4 SP #3:

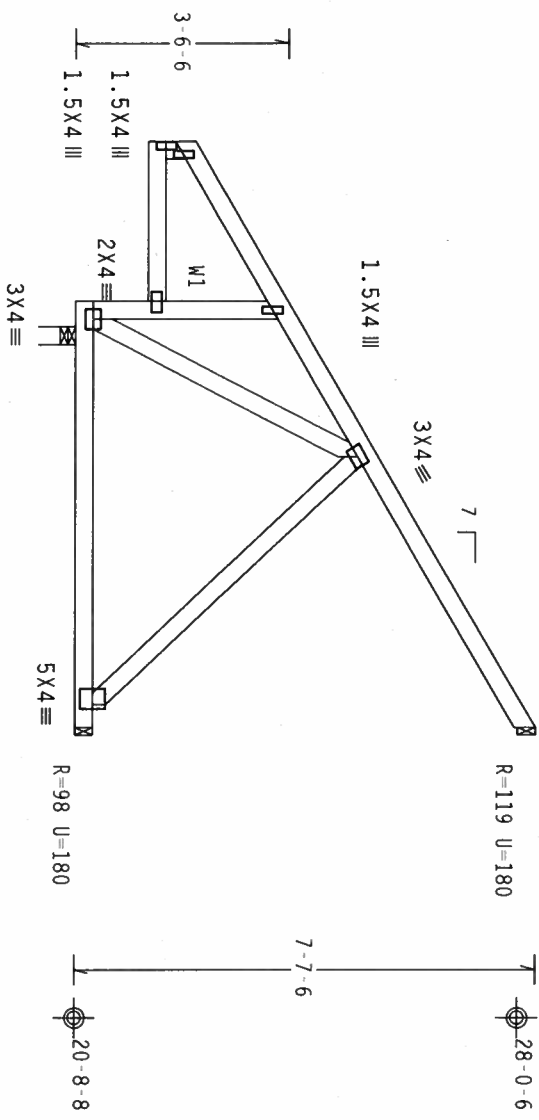
Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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

110 mph wind, 25.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.

Provide ( 2 ) 16d common nails(0.162"x3.5") toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5") toe nailed at Bot chord.



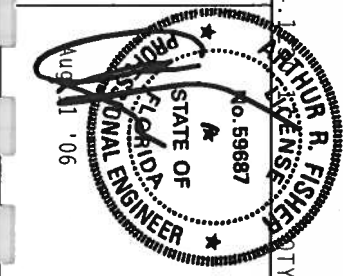
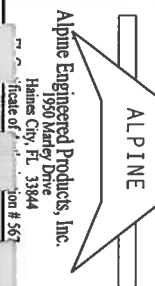
2-7-8 0-5-0  
7-0-0 Over 3 Supports  
R=536 U=180 W=3.5"

PLT TYP. Wave

Design Cmt: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, ERECTION, SHIPPING, INSTALLING AND BRACING.  
REFER TO BC31.103 BUILDING COMPONENT SAFETY INFORMATION, PRODUCT INFORMATION, BUILDING CODES, AND LOCAL ORDINANCES.  
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  
DESIGN IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES,  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI.  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/S/TS ASTM A653 GRADE 40/50 (W. X/M-5) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.  
DEFLECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, SECTION 16.2.  
DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER AMS/771.1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - - 31586
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223057
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	122395 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	15Z0487 201

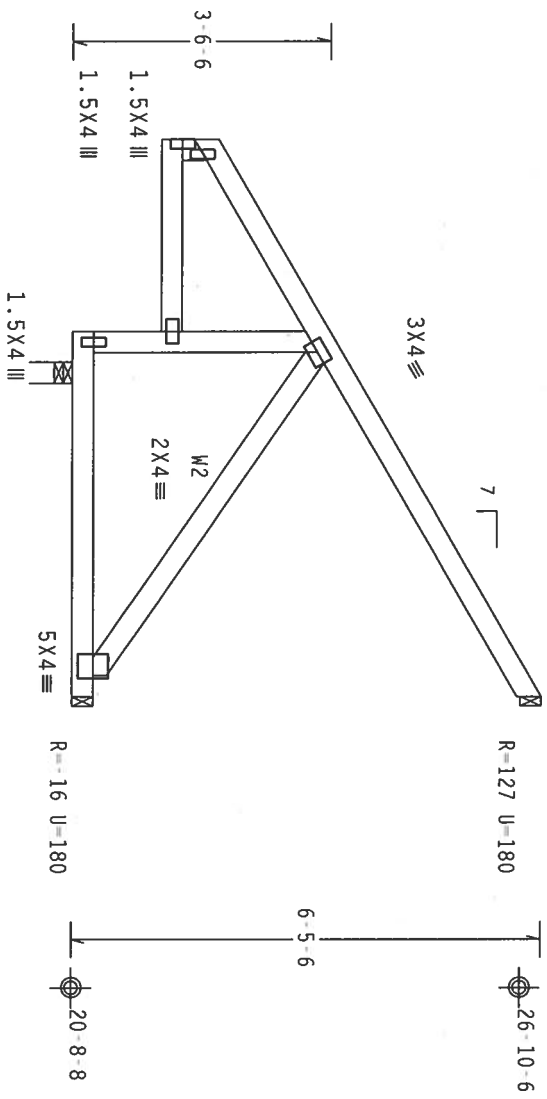
Scale = .3125"/ft.

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

Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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

110 mph wind, 24.93 ft mean hgt, ASCE 7-02, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



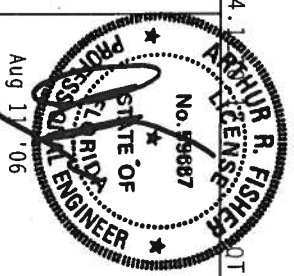
2-7-8 0-5-0  
5-0-0 Over 3 Supports  
R=476 U=180 W=3.5"

PLT TYP. Wave

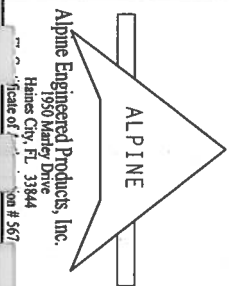
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
RIGID CEILING. 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  
DESIGN IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
CORRECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/X) ASH A653 GRADE 40/60 (K/IN.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 AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
BUILDING DESIGNER PER AM51/PTI 1 SEC. 2.



FL/-/4/-/1/-/R/-		Scale = .375"/ft.	
TC LL	20.0 PSF	REF	R487-- 31587
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06223058
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122518 REV
DUR.FAC.	1.25		
SPACING	24.0"	DRFF-	1S20487 201





Left end vertical exposed to wind pressure. Deflection meets  $L/240$  criteria for brittle and flexible wall coverings.

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

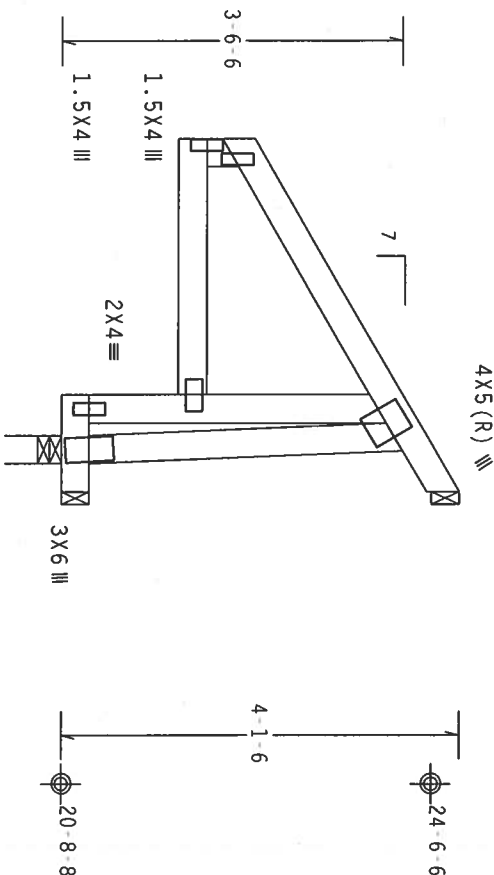
110 mph wind, 23.77 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.

\* PROVIDE CONNECTION FOR 615# REACTION AT A DURATION FACTOR OF 1.25.

R=115 U=180



### 1.5X4 III

$$\begin{array}{c} \leftarrow 2-7-8 \rightarrow \\ \leftarrow 0-5-0 \rightarrow \end{array}$$

1-0-0 Over 3 Supports

R=984 U=606 W=3.5"

R-615 U- \*

PLT TYP. Wave

Design Crit:  $TPI-2002(STD)/FBC$  $Cq/RT=1.00(1.25)/10(0) \quad 7.24$ 

7.24

QTY: 1

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

Scale = .5"/Ft.

**WARNING:** THESE TOOLS REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND DRAGGING. REFER TO BC61-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRESS PASTINE INSTITUTE, 503 D'AMORIO BLVD., SUITE 200, MADISON, WI 53719) AND NCA (WOOD PROCESS COUNCIL OF AMERICA, 6300 ENTERPRISE, IN 47404, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE FUNCTIONS. QUERES OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ACID CILLING.

**\*\* IMPORTANT \*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AFAFA) AND TPI.

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 TP11-2002 SEC.3. A SEAL ON THIS

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

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE CROSS 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.

BUILDING DESIGNER PER ANSI/HP1 1 SEC. 2.

Alpine Engineered Products, Inc.

Haines City, FL 33844

Scale of 1 to 5  
Data # 567



Aug 1 '06

ARTHUR R. FISHER  
LICENSE  
No. 59867  
STATE OF FLORIDA  
ENGINEER

TC LL	20.0 PSF	REF	R487 - 31589
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCU8R487 06223060
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122416 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRF5-	1SZ0A87 Z01

Left end vertical not exposed to wind pressure.

HiJack supports 3-2-9 setback jacks with 0-3-8 cantilever one face, 0-3-8 cantilever opposite face.

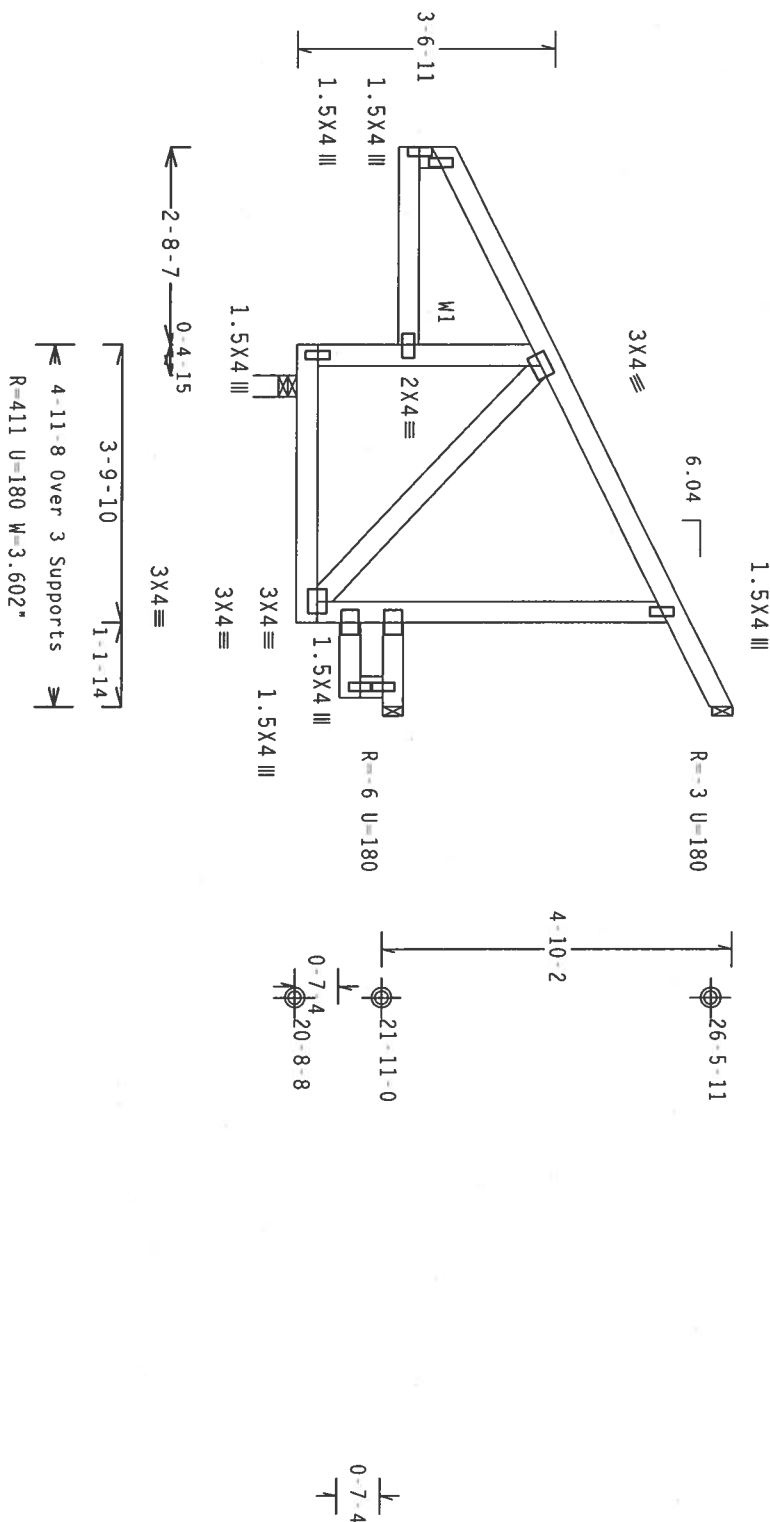
110 mph wind, 24.83 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

The following trusses need concentrated loads at the end of their overhangs: 3-2-9 span/setback member on the 0-3-8 cant side requires 61 lbs and the 3-2-9 span/setback member on the 0-3-8 cant side requires 61 lbs.

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

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.



Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.12$$

7.24.12

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

Scale = .375"/Ft.

\*\*\*WARNING\*\*\* FRUSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC51.1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSS PULP INSTITUTE, 583 O'CONNOR DRIVE, SUITE 200, MADISON, WI 53718) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES RELATIVE TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

**\*\* IMPORTANT \*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**


TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC. OR AISC 360 AND TO:

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-7 CONNECTION (ELECTRODE MINOR OF 20/10/1000 (W.H/3/4) 435IN 4055 GRADE 40/50 (W. K/H.5) GALT. STEEL. APPLT

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

100



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

Circle 7 on Reader Service Card

100

Aug 11 '06

TC LL	20.0 PSF	REF	R487 - -	31590
TC DL	10.0 PSF	DATE	08/11/06	
BC DL	10.0 PSF	DRW	HCU8R487 06223061	
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	122713 REV	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1SZ0487 Z01	

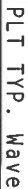




Left end vertical not exposed to wind pressure.

Hipjack supports 4-7-4 setback jacks with 0-3-8 cantilever one face; 0-3-8 cantilever opposite face.

Provide ( 2 ) 16d common nails (0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails (0.162"x3.5"), toe nailed at Bot chord.


$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.1$$

7.24.1

FL/4/-/R/-

Scale = .3125"/Ft.

\* \* \* \* \*  
 \*\*WARNING\*\* \* \* \* \* \*  
 \*\*RISERS REQUIRE EXTREMELY CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RC31-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, 563 O'NEARDO DR., SUITE 200, MADISON, MI 48131) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, MI 53719) FOR SAFETY PRACTICES PERTAINING TO THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED LIGID CEILING. \* \* \* \* \*

**\*\* IMPORTANT \*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**

TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (M.H/S/K) ASTM A653 GRADE 40/60 (M. K/H.S) GALV. ST

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE DESIGN SHOWN. THE CONTRACTOR HAS NO RESPONSIBILITY FOR THE DESIGN.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

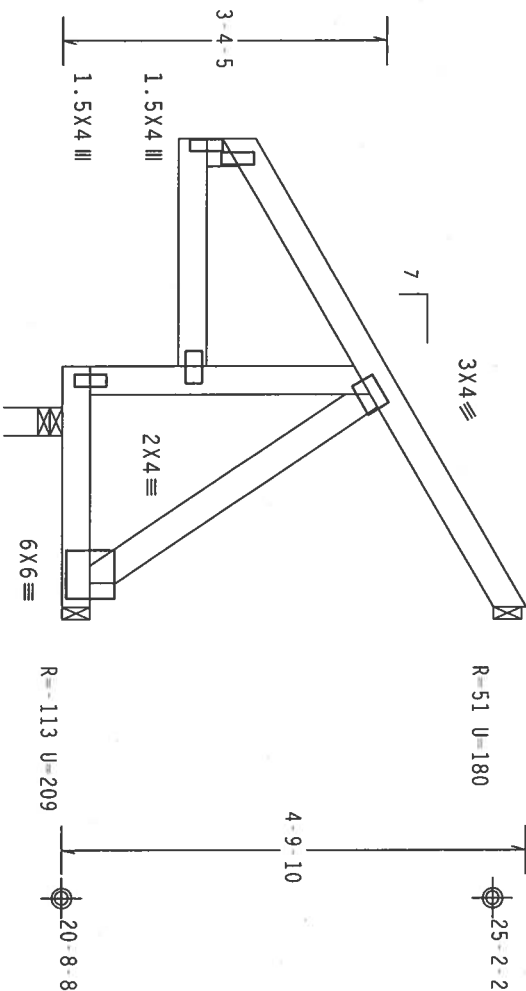
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TC LL	20.0 PSF	REF	R487 - 31592
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCUSR487 0623063
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122702 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZ0487 Z01

110 mph wind, 24.11 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.12$$

7.24.12

XY:1

FL 1-14-1-1-R 1-

Scale = .5" / Ft.

\*\*\*WARNING\*\*\* BRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-1-30 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS LATE INSTITUTE, 563 O'NEARIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\* IMPORTANT \*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**

TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AIA&PA) AND TP1. 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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS

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

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

[illegible]

100

Alpine Engineered Products, Inc.

Haines City, FL 33844

**Scale of** **on # 567**

OD # 567

TC LL	20.0 PSF	REF	R487 - - 31593
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	HCSR487 06223064
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122697 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZ0487 201

Left end vertical exposed to wind pressure. Deflection meets  $L/240$  criteria for brittle and flexible wall coverings.

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

110 mph wind, 25.12 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 0.20" due to live load and 0.07" due to dead load.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

SEE DWGS TC FILLER1103 AND BC FILLER1103 FOR FILLER DETAILS.

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.



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

7.24.1

TY:1

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

Scale = .3125" / Ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXPERTISE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 5801 D'ONOFRIO BL., 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 LACID CEILING.

**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**

TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING


DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (M.H/S/K) ASTM A653 GRADE 40/60 (M. K/H.S) GALV. ST

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.

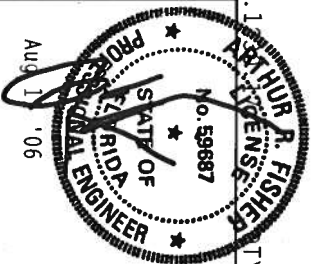
**DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TR**

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



**Alpine Engineered Products, Inc.**  
1950 Kaley Drive  
Haines City, FL 33884  
Circle # 567

**\*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 & BRACKING OF TRUSSES, COMPLIES WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE ENGINEERED PRODUCTS WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONAL INJURY TO ANY PLAYERS TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN SEC. 3. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI-1-2002 SEC. 5. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - - 31594
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW	H0USR487 06223065
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	122687 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZ0487 Z01



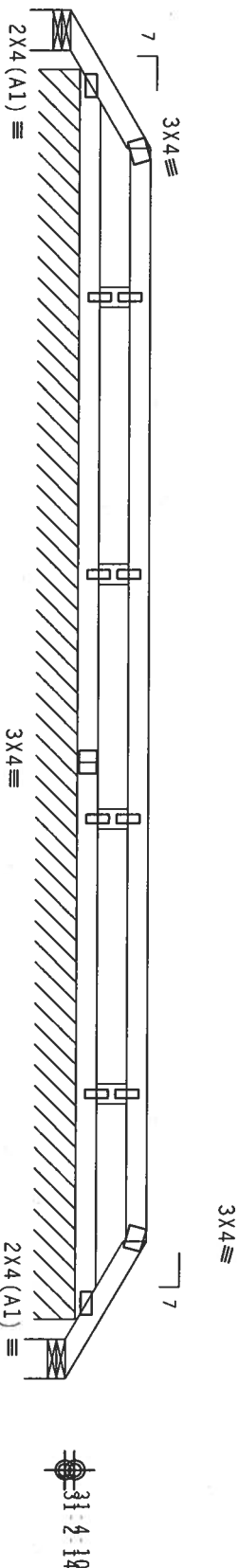
Top chord 2x4 Sp #2 Dense  
Bot chord 2x4 Sp #2 Dense  
Webs 2x4 Sp #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, 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.

110 mph wind, 31.82 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=1.2 psf.

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



R=7 U=180 W=6.946"  
R=71 PLF U=37 PLF W=18-1-4  
R=7 U=180 W=6.947"

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

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

7.24.12

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

Scale = .375"/ft.

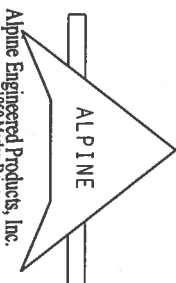
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY) FOR ADDITIONAL INFORMATION. SEE D. CONORIO DR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA) FOR ADDITIONAL INFORMATION. TOP 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 FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE

CONNECTOR PLATES ARE MADE OF 2018/1604 (W/H/S) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. ALPINE

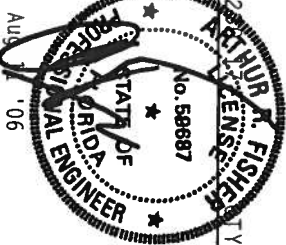
ALL TRUSSES SHALL BE PERMANENTLY LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1604.2. ALPINE

ALL TRUSSES SHALL BE PERMANENTLY LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1604.2. ALPINE



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

Scale of: 1/8" = 1'-0"



TC LL	20.0 PSF	REF R487-- 31596
TC DL	10.0 PSF	DATE 08/11/06
BC DL	2.0 PSF	DRW HCUR487 06223066
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	32.0 PSF	SEQN- 122544
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1S20487_201



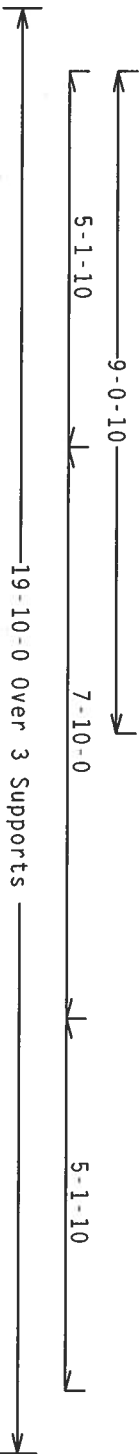
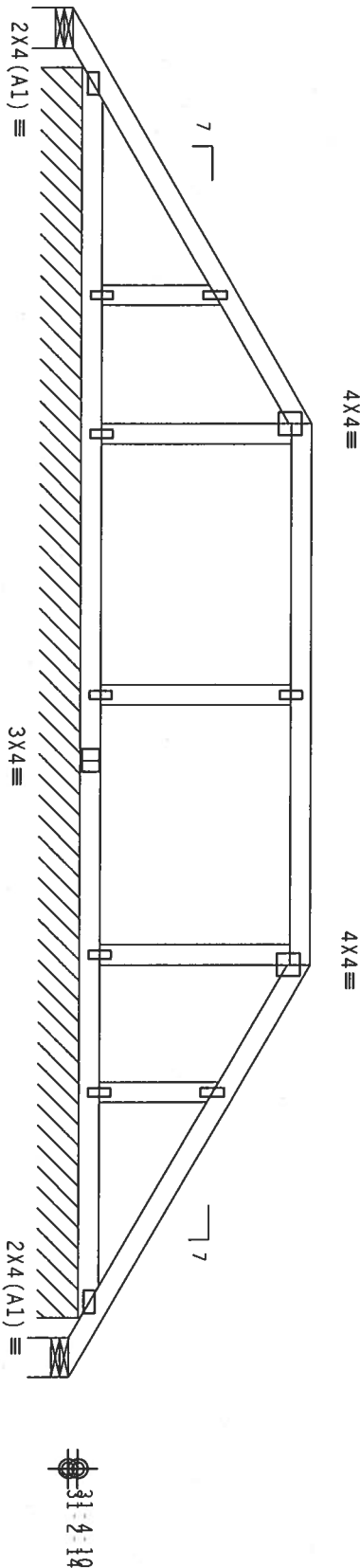
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 32.99 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=1.2 psf.

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



R=18 U=180 W=6.946"

R=73 PLF U=40 PLF W=18-1-4

R=18 U=180 W=6.946"

Note: All plates are 1.5x4 except as shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

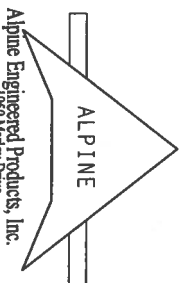
7.24

FL/-/4/-/R/-

Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES MUST BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100. ALL TRUSSES MUST BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

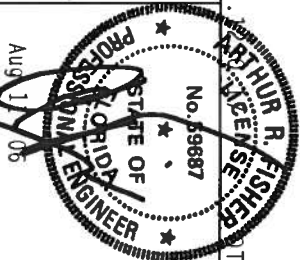
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASIN 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-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND NOT THE STRUCTURAL DESIGN OF THE BUILDING OR THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMI/TPI 1 SEC. 2.



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

Scale of: 1/4" = 1'-0"

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASIN 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-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND NOT THE STRUCTURAL DESIGN OF THE BUILDING OR THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487 - 31598
TC DL	10.0 PSF	DATE 08/11/06
BC DL	2.0 PSF	DRW HCUR487 06223068
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	32.0 PSF	SEGN- 122558
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1S20487_201



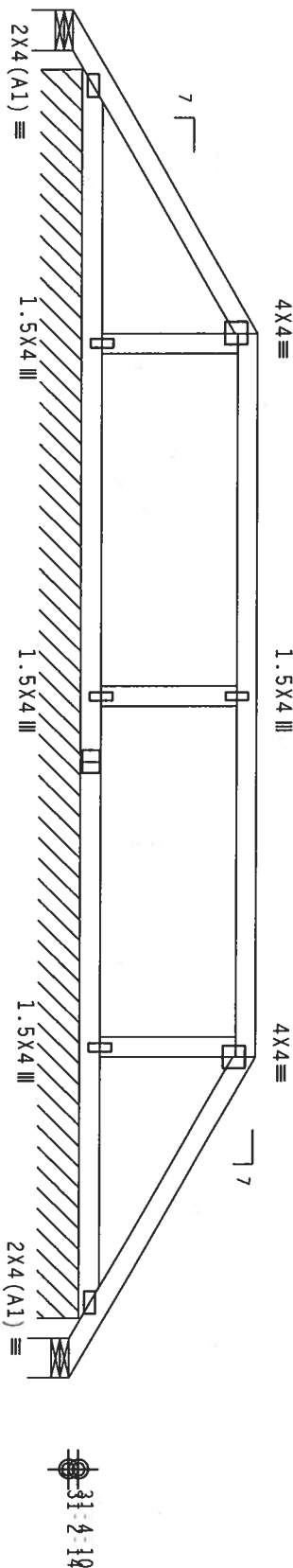
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 32.60 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=1.2 psf.

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



R=25 U=180 W=6.946"  
R=74 PLF U=41 PLF W=18-1-4  
R=26 U=180 W=6.946"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

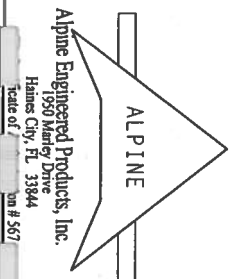
Cq/RT=1.00(1.25)/10(0)

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

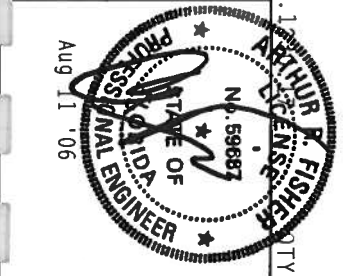
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-01 (BUILDING COMPONENT SAFETY) AND BC52 1-01 (BUILDING COMPONENT SAFETY) FOR ADDITIONAL INFORMATION. THIS TRUSS IS DESIGNED FOR A RIGID CEILING. 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 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-1 2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE ATTACHMENT OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone of: 888-567-5677



TC LL	20.0 PSF	REF R487--	31599
TC DL	10.0 PSF	DATE	08/11/06
BC DL	2.0 PSF	DRW HCUR487	06223069
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT. LD.	32.0 PSF	SEQN-	122565
DUR. FAC.	1.25		
SPACING	24.0"		

JREF - 1S20487\_201

110 mph wind, 32.02 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=1.2 psf.

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



R=72 PLF U=38 PLF W=18-1-4

Design Crit: TPI-2002(STD)/FBC

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

PROPERTY: 1

FL1/-141/-1/-1R1/-

Scale = 375" / Ft.

STATE OF  
No. 59687

Alpine Engineered Products, Inc.  
1050 Madison Drive

1500 Mainly Drive  
Haines City, FL 33844  
Certificate of Title on #567

ODA # 201

TC LL	20.0 PSF	REF R487-- 31600
TC DL	10.0 PSF	DATE 08/11/06
BC DL	2.0 PSF	DRW HCUSR487 06223070
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 122572
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1S20487 Z01

JREF - 1SZ0487\_Z01

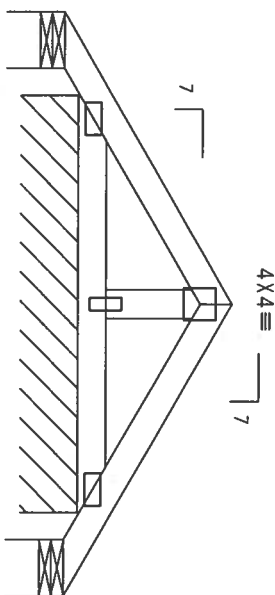
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

110 mph wind, 21.75 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=1.2 psf.

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

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

SPECIAL LOADS  
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 63 PLF at 0.00 to 63 PLF at 6.00  
BC - From 4 PLF at 0.00 to 4 PLF at 6.00  
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.



20'-0" x 8"

2X4 (A1) ≡ 1.5X4 III 2X4 (A1) ≡  
2-1-10 2-1-10  
6-0-0 Over 3 Supports  
R=10 U=180 W=6.946" R=10 U=180 W=6.946"  
R=81 PLF U=42 PLF W=4-3-4

PLT TYP. Wave

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

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
RECORD ALL DIMENSIONS AND MATERIALS INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563  
D'AMORE DR, SUITE 200, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PREPARING THESE FUNCTIONS.  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

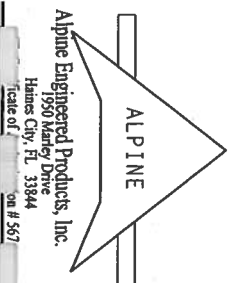
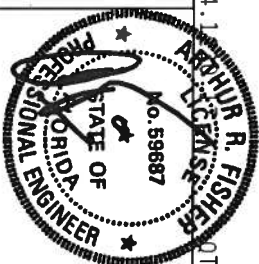
\*\*\*IMPORTANT\*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE  
CONNECTOR PLATES ARE MADE OF 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-Z.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI-1 2002 SEC.3. A SEAL ON THIS  
DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

Scale = .5"/ft.

TC LL	20.0 PSF	REF R487--	31601
TC DL	10.0 PSF	DATE	08/11/06
BC DL	10.0 PSF	DRW HCUR487	06223071
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT.LD.	40.0 PSF	SECN-	122210

Aug 11 '06



DUR.FAC.	1.25		
SPACING	24.0"		
		UREF - 1S20487_201	

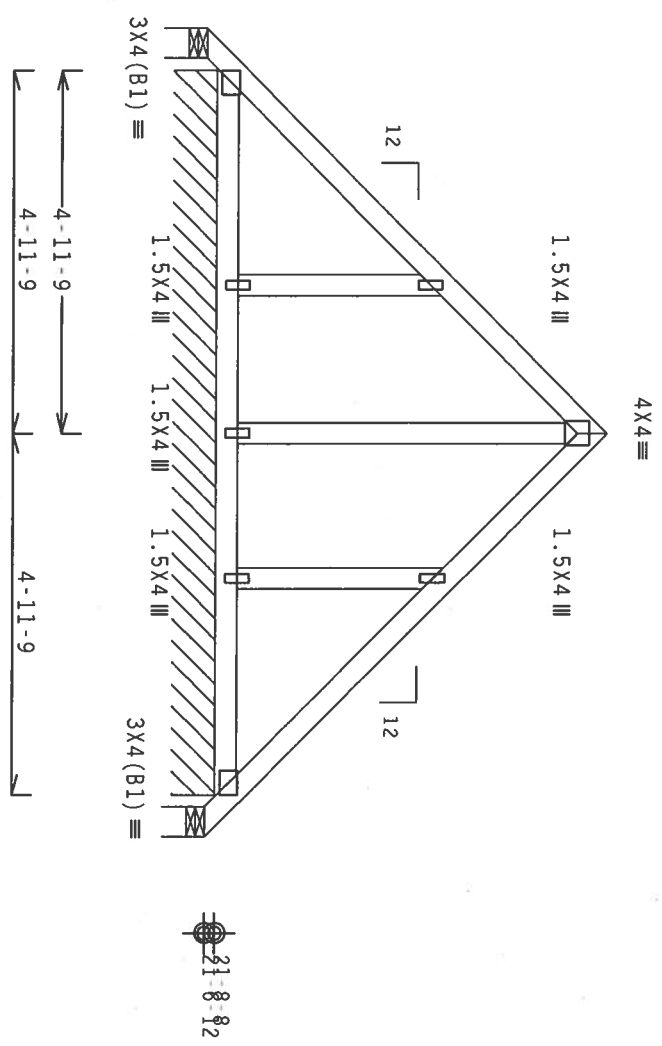
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 24.33 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=1.2 psf.

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



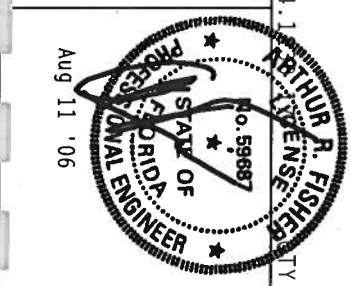
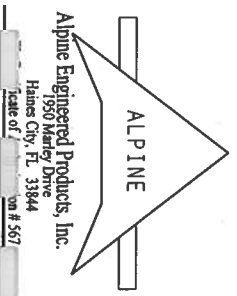
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), BUILDING AND TRUSS MANUFACTURING ASSOCIATION, 1500 MADISON DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & 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, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY OF THIS DESIGN. THE DESIGNER'S RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SEAL OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487--	31602
TC DL	10.0 PSF	DATE	08/11/06
BC DL	2.0 PSF	DRW HCUSR487	06223072
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT.LD.	32.0 PSF	SECN-	122293
DUR.FAC.	1.25		
SPACING	24.0"		

Scale = .375"/Ft.

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

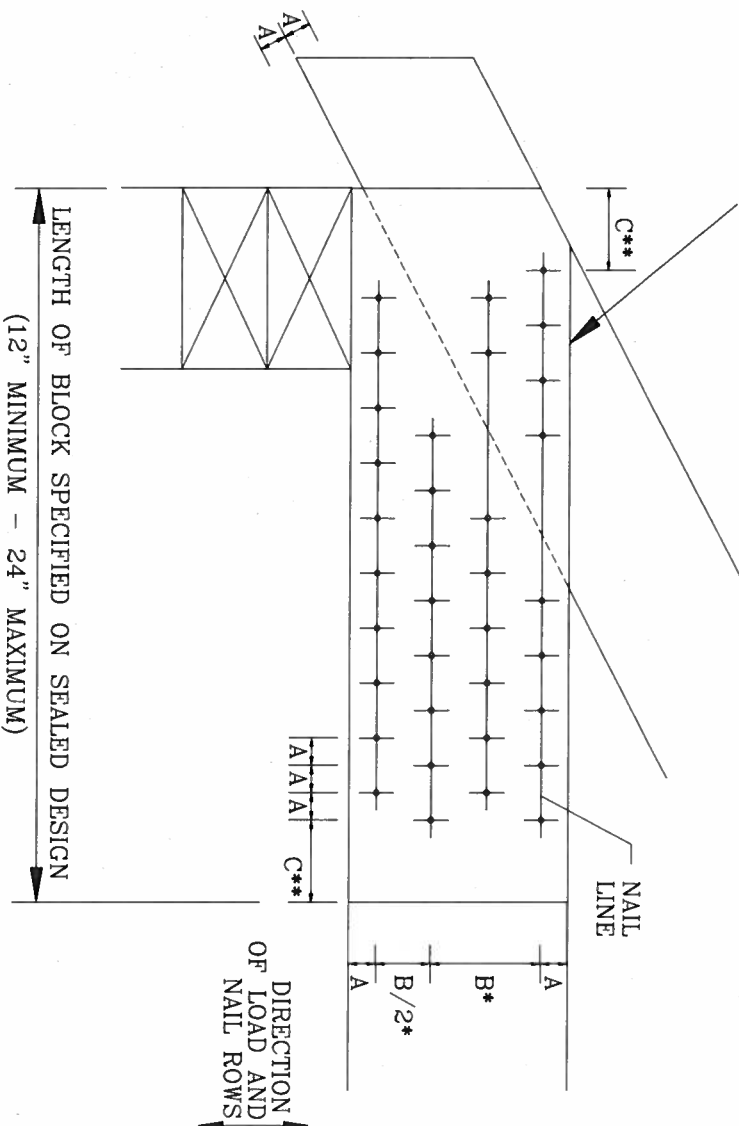
- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

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%

**\*\*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.

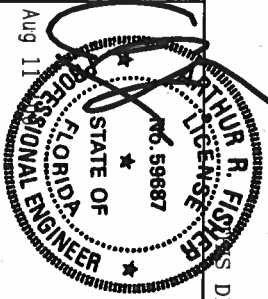


NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"x2.5")	3	6	9	12	15
10d BOX (0.128"x3")	3	5	7	10	12
12d BOX (0.128"x3.25")	3	5	7	10	12
16d BOX (0.135"x3.5")	3	5	7	10	12
20d BOX (0.148"x4")	2	4	5	6	8
8d COMMON (0.131"x2.5")	3	5	7	10	12
10d COMMON (0.148"x3")	2	4	6	8	10
12d COMMON (0.148"x3.25")	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 CNBRGK06999



# ALPINE

**ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA**

**\*\*WARNING\*\*** TRUSSES REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC01-1-03 "BUILDING COMPONENT SAFETY INFORMATION", PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 983 DUNDRAFF DR., SUITE 200, MADISON, WI 53719, OR VITA QVAD0 TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING STRUCTURAL ANALYSIS. SNALES OTHERWISE INDICATED TOP CHORD SHALL HAVE PROTECTIVE ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMPATIBLES WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY AREA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2X18x16GA G/A/H/SX ASH A665 GRADE OR ECH EQUIVALENT. ALL OTHER MATERIALS TO EACH JOINT MUST MEET SAME REQUIREMENTS. SEE PARAGRAPH B ON THIS DESIGN POSITION SET DRAWINGS. A3 STEEL ON THIS DRAWING INDICATES ACCEPTANCE DO NOT BE PER ANNEX A3 OF TPI-1-2002 SEC. 3. A STEEL ON THIS DRAWING INDICATES ACCEPTANCE DO NOT BE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLEY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUBMITTER AND USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2

# CLB WEB BRACE SUBSTITUTION

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

## NOTES:

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

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

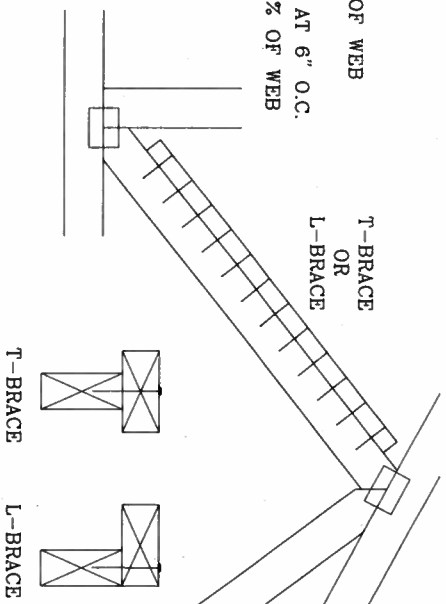
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

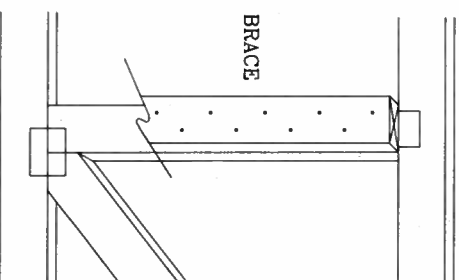
## T-BRACING OR L-BRACING:

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



## SCAB BRACING:

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



THIS DRAWING REPLACES DRAWING 579,640

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS DESIGN, INC., 583 DUNDRIE DR., SUITE 200, MADISON, VT 55719, AND VTRC (VTRD) TRUSS COUNCIL, 1000 W. 10TH AVE., SUITE 100, DENVER, CO 80202, FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. UNLATERALIZED TRUSSES SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/X) ASTM A653 GRADE 50, 60, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 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MAX GABLE VERTICAL LENGTH														
2x4 GABLE VERTICAL SPACING / SPECIES	BRACE GRADE	NO BRACES	(1) 1x4 "L" BRACE *				(2) 2x4 "L" BRACE **				(1) 2x6 "L" BRACE *		(2) 2x6 "L" BRACE **	
			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B		
24" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"	
			3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"	
		STUD	3' 7"	5' 5"	5' 5"	7' 1"	7' 1"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"	
		STANDARD	3' 7"	4' 8"	4' 8"	6' 1"	6' 1"	8' 3"	8' 3"	9' 6"	9' 6"	12' 11"	12' 11"	
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"	
			#2	3' 11"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		STUD	3' 9"	5' 7"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"	
		STANDARD	3' 8"	4' 9"	4' 9"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"	
	SPF HF	#1 / #2	4' 2"	7' 3"	7' 5"	8' 7"	8' 10"	10' 3"	10' 6"	13' 5"	13' 10"	14' 0"	14' 0"	
			#3	4' 1"	6' 8"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"
		STUD	4' 1"	8' 0"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"	
		STANDARD	4' 1"	5' 8"	5' 8"	7' 6"	7' 6"	10' 1"	10' 1"	11' 8"	11' 8"	14' 0"	14' 0"	
SP DFL	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"		
		#2	4' 6"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"		
	STUD	4' 4"	6' 10"	6' 10"	8' 7"	9' 0"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"		
	STANDARD	4' 4"	6' 9"	6' 9"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"		
16" O.C.	SPF HF	#1 / #2	4' 2"	5' 10"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	14' 0"	14' 0"		
			#3	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	
		STUD	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	
		STANDARD	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	
12" O.C.	SPF HF	#1 / #2	4' 7"	8' 0"	8' 2"	9' 5"	9' 8"	11' 3"	11' 7"	14' 0"	14' 0"	14' 0"		
			#3	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	
		STUD	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	
		STANDARD	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	
12" O.C.	SP DFL	#1 / #2	4' 11"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"		
			#2	4' 11"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	
		STUD	4' 9"	7' 11"	7' 11"	9' 5"	9' 11"	11' 3"	11' 10"	14' 0"	14' 0"	14' 0"		
		STANDARD	4' 7"	6' 9"	6' 9"	8' 10"	8' 10"	11' 3"	11' 7"	13' 10"	13' 10"	14' 0"	14' 0"	

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

GROUP B:	
HEM-FIR	
#1 & BTR	
#1	
SOUTHERN PINE	
#1	
#2	
DOUGLAS FIR-LARCH	
#1	
#2	

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

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

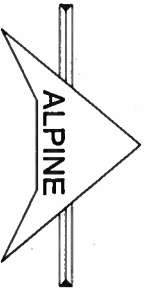
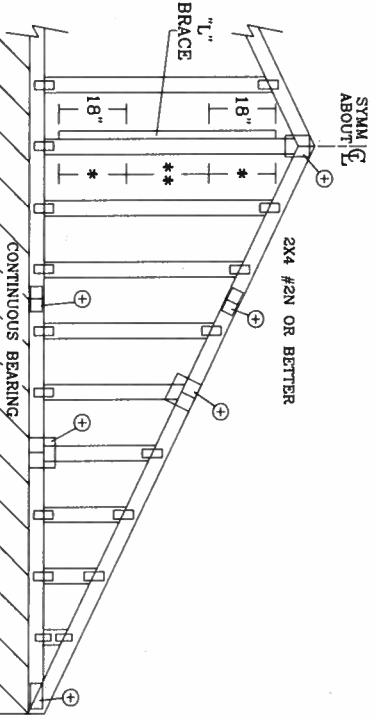
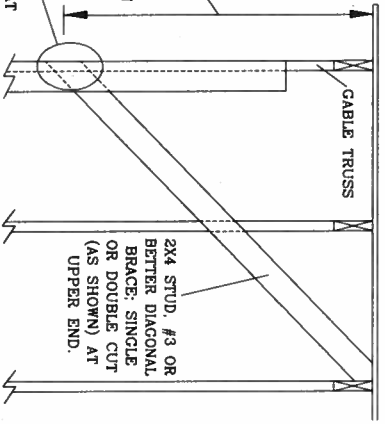
+ REFER TO COMMON TRUSS DESIGN FOR  
PEAK, SPLICE, AND HEEL PLATES.

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

BRACE: SINGLE  
OR DOUBLE CUT  
(AS SHOWN) AT  
UPPER END.

CONNECT DIAGONAL AT  
MIDPOINT OF VERTICAL  
WEB.

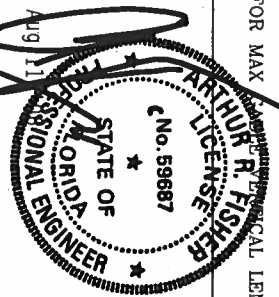
THEORETICAL LENGTH SHOWN  
TABLE ABOVE.



**ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA**

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDORF RD., 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.

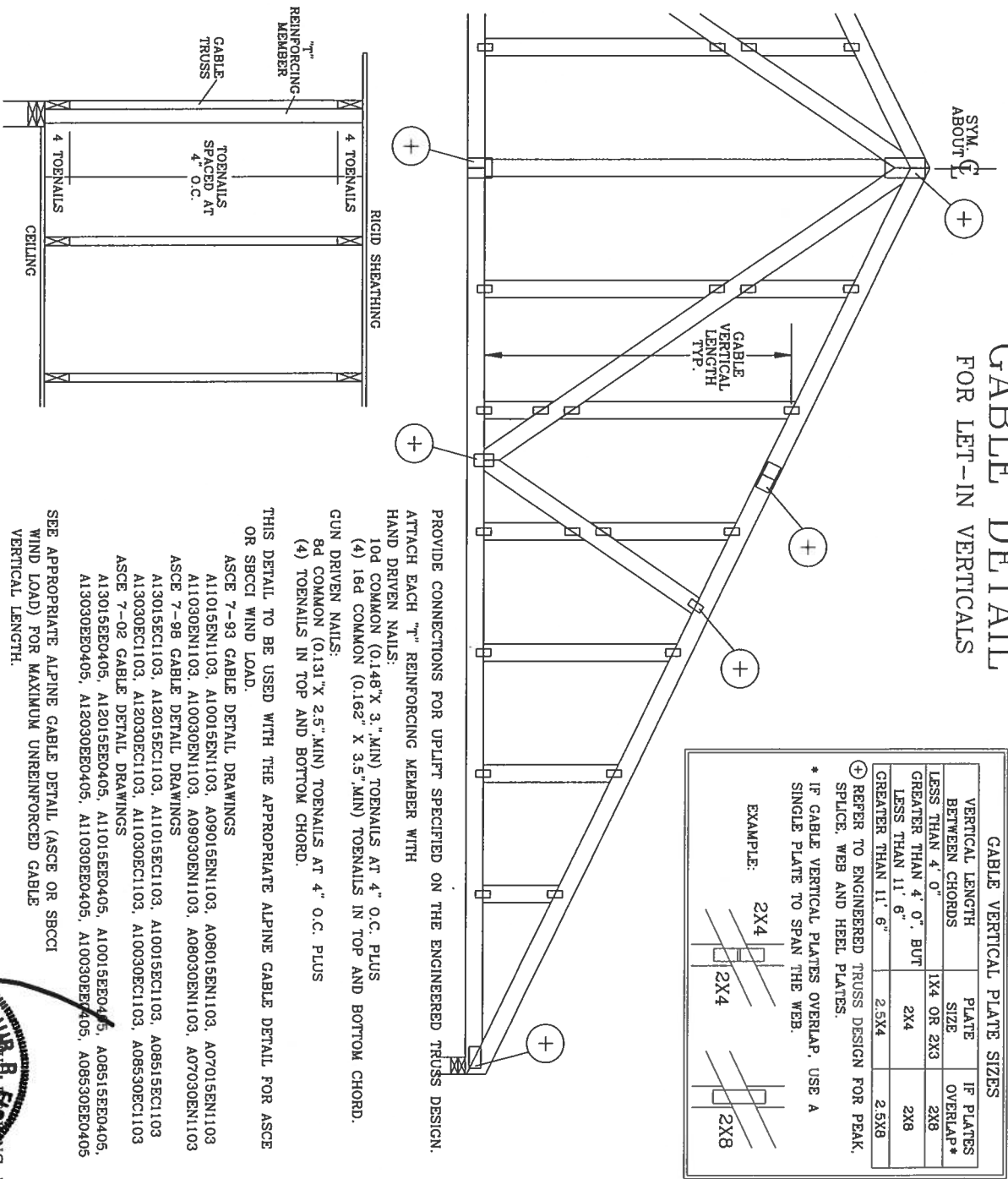
\*\*\*HIGHLIGHT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION FOR TRUSSES). ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S) ASTM A653 GRADE 50/60 (KINCH) GUSTAV STEEL. PLATES TO EACH FACE OF 20/18/16GA (W/H/S) ASTM A653 GRADE 50/60 (KINCH) GUSTAV STEEL. TOP CHORD SHALL BE 2X6 OR 2X8. BOTTOM CHORD SHALL BE 2X6 OR 2X8. REFER TO PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. I, SUELYN, THE TRUSS COMPONENT DESIGN SHOWN, THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.



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

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

EXAMPLE:

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

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

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

(4) 16d COMMON (0.148" X 3.3" 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:

(4) TOENAILS IN TOP AND BOTTOM CHORD.

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

ASCE 7-93 GABLE DETAIL DRAWINGS

A11015ENI103, A10015ENI103, A09015ENI103, A08015ENI103, A07015ENI103

A11030ENI103, A10030ENI103, A09030ENI103, A08030ENI103, A07030ENI103

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015ECI103, A12015ECI103, A11015ECI103, A10015ECI103, A08515ECI103

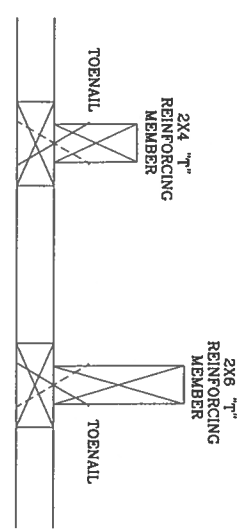
A13030ECI103, A12030ECI103, A11030ECI103, A10030ECI103, A08530ECI103

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015ED0405, A12015ED0405, A11015ED0405, A10015ED0405, A08515ED0405

A13030ED0405, A12030ED0405, A11030ED0405, A10030ED0405, A08530ED0405

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



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "L" 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 %
80 MPH	2x4	10 %	10 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	10 %	20 %
30 FT	2x6	20 %	10 %
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

"L" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "L" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

1.10 x 6' 7" = 7' 3"

**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDRIED DR., SUITE 200, MADISON, VI. 53719) AND VITA (VIA) TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, VI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BRACE OR TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (V/H/S/K) ASTM A563 GRADE 40/50 (V/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 CONSIDERED AS A SEAL. ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEER'S SEAL. THE CROSS SECTION 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.

REPLACES DRAWINGS CAB98117 876,719 & HC26294035

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

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

GROUP A:

SPRUCE-PINE-FIR			HEM-FIR		
#1 / #2	STANDARD	STUD	#2	STUD	STANDARD
#3			#3		

DOUGLAS FIR-LARCH			SOUTHERN PINE		
#3	STUD	STANDARD	#3	STUD	STANDARD

GROUP B:

HEM-FIR

#1 & BTR

#1

SOUTHERN PINE

#1

#2

DOUGLAS FIR-LARCH

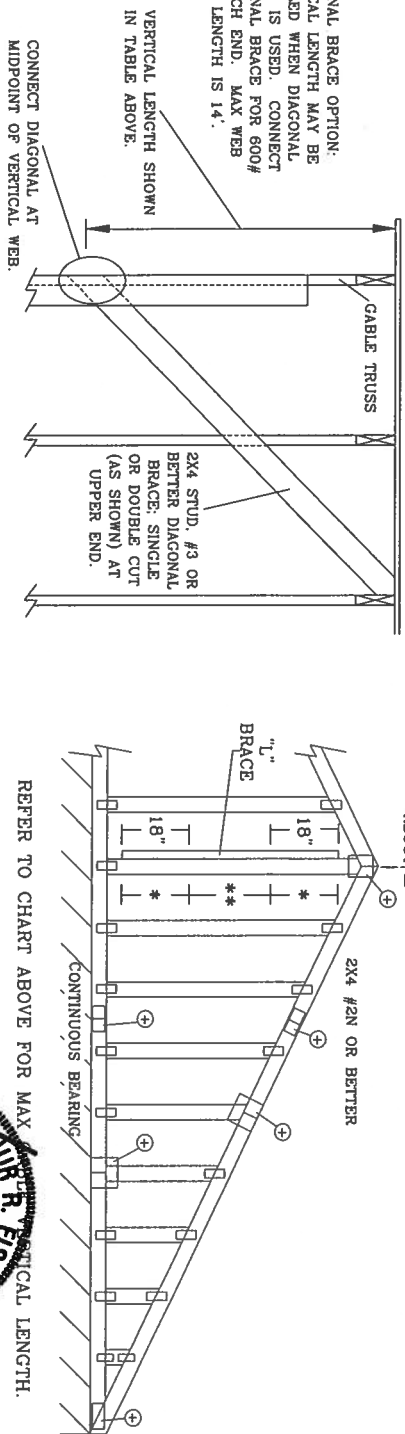
#1

#2

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"  
 PLYWOOD OVERHANG.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1x4 OR 2x3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2x4
GREATER THAN 11' 6"	2 5/4x4

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



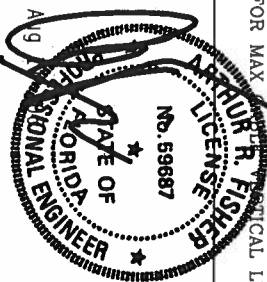
REFER TO CHART ABOVE FOR MAX. PERMISSIBLE LENGTH.

## ALPINE

**ALPINE ENGINEERED PRODUCTS, INC.**  
**POMPAN0 BEACH, FLORIDA**

■WASINING■ TRUSSES REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND  
 ■■■■■■■■ REFER TO BEST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS  
 ■■■■■■■■ INSTITUTE, 583 DOWNEY DR., SUITE 200, MADISON, WI 53719, AND A/CIA C/ODD TRUSS COUNCIL  
 ■■■■■■■■ OF AMERICA, 10000 W. 10TH AVE., SUITE 100, DENVER, CO 80202, FOR THE LATEST TRUSS  
 ■■■■■■■■ DESIGN FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL BE PACKAGED TO PERFORM  
 ■■■■■■■■ STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

■■■■■■■■ 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 TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING &  
 ■■■■■■■■ BRACING AND TRUSSES. DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF NSC CANADIAN, DESIGN SPEC.  
 ■■■■■■■■ 40.66 (C/S/43) TYPICAL PER DRAWINGS 1600-2. AN INSPECTION OF PLATES FOLLOWED BY CD SHALL  
 ■■■■■■■■ BE PER ANEX 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  
 ■■■■■■■■ LIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING  
 ■■■■■■■■ DESIGNER, PER ANSI/TPI 1 SEC. 2.



MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCET-02-GAB11015

DATE 04/15/05

DRWG A11015EE0405

-ENG

# PIGGYBACK DETAIL

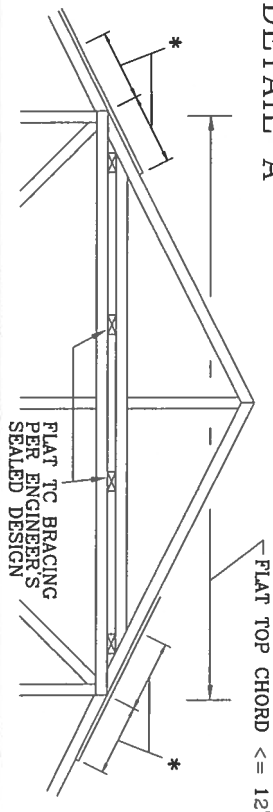
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG.  
LOCATED ANYWHERE IN ROOF, CAT II, EXP C,  
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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.

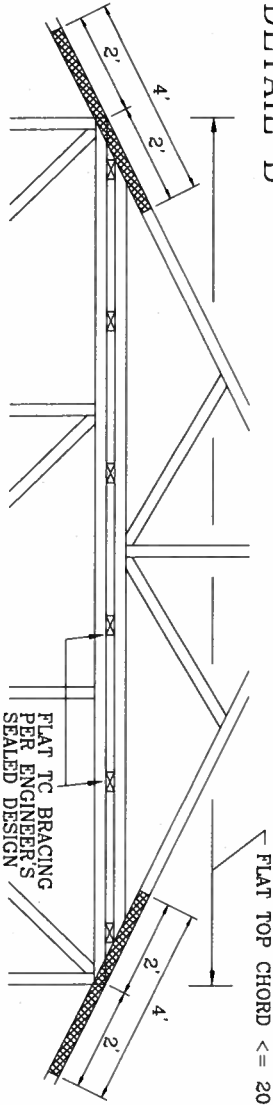
NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

## DETAIL A



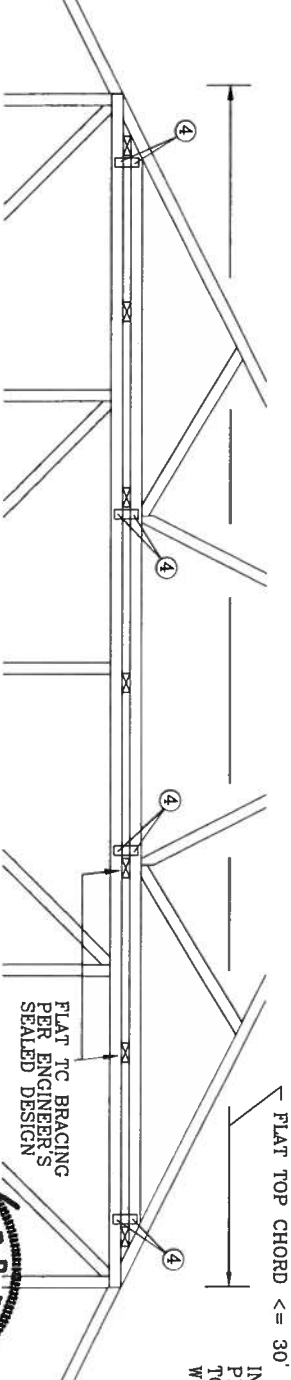
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.  
\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

## 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



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

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

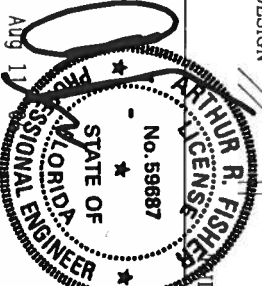
THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860



ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDRIE 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 COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, 40/60 C/W/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER BRACKINGS 1604-Z. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER. THE PROFESSIONAL ENGINEER'S RESPONSIBILITY FOR THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



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

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

# PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

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

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

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

LOCATED ANYWHERE IN ROOF, CAT II, EXP C,

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

110 MPH WIND, 30' MEAN HGT, SBC

ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

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

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

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

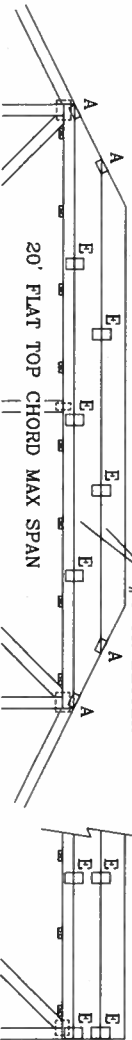
8" x 8" x 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 6d BOX (0.099" x 2" MIN) NAILS PER GUSSET.

(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

(4) 6d BOX (0.099" x 2" MIN) NAILS.

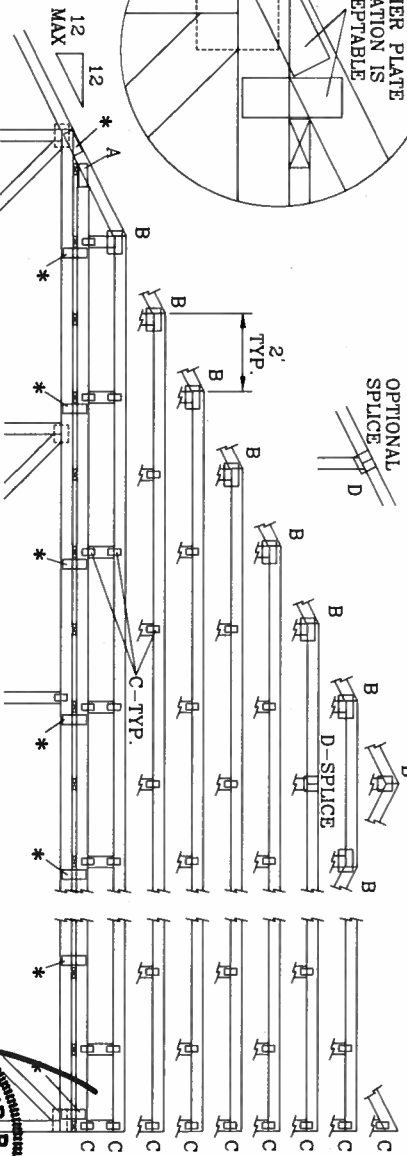
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

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.



EITHER PLATE LOCATION IS ACCEPTABLE

OPTIONAL SPLICE



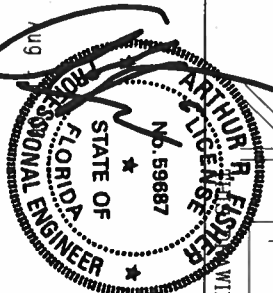
\*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 DOWDRIED DR., SUITE 200, MADISON, WI 53719 AND A/CAD (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 TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING, & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY ASEP AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA CV/H/S/4D ASTM A653 GRADE 40/60 CV/H/S/4D 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 CD SHALL BE PERFORMED BY A QUALIFIED INSPECTOR. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN, SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



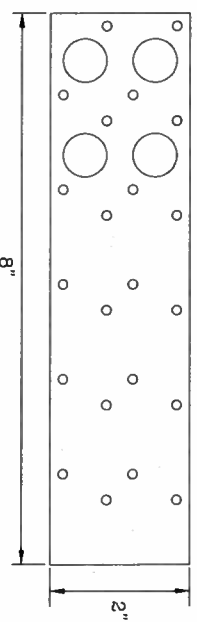
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WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d BOX (0.113" x 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES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

\* PIGGYBACK SPECIAL PLATE

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



WING REPLACES DRAWINGS 634.016 634.017 & 847.045	
MAX LOADING	REF PIGGYBACK
55 PSF AT	DATE 04/14/05
1.33 DUF. FAC.	DRWG PIGBACKB0405
50 PSF AT	-ENG DLJ/KAR
1.25 DUF. FAC.	
47 PSF AT	
1.15 DUF. FAC.	
SPACING 24.0"	



The *uniform load* span charts below indicate the maximum design spans (including a 1½" minimum bearing at each end) for each family of *TrimJoist* floor joists. Each chart is divided into columns which represent common design loadings and rows which show typical spacings. Most residential designs require a minimum of 55 psf loading. Floors used for heavy traffic and/or heavy floor coverings (e.g. Tile) should be designed at 60 psf minimum. All loads are broken down into *Live*, *Top-dead* and *Bottom-dead* components. For example, the 55 psf column is really 40 psf live plus 10 psf top-dead plus 5 psf bottom-dead for a total of 55 psf. Dead loads are the weight of construction materials and are always present for the whole life of the structure. Live loads, on the other hand, are transient and are never constant over the life of the structure. Select the appropriate column based on the *dead* loads of your construction materials. These charts are for *uniformly loaded, clear span, simply supported* joists. For special applications requiring concentrated loads, asymmetric continuous loads, cantilevers, or special bearing conditions please consult a *TrimJoist* representative or authorized dealer. The TPDS computer program can be used to analyze almost any loading and/or bearing condition.

11 ¼" Deep	Loading Spacing	55 PSF (40/10/5)	60 PSF (40/10/10)
		12 24' - 0" L/497	24' - 0" L/497
		16 22' - 0" L/485	22' - 0" L/485
		19.2 21' - 2" L/453	21' - 2" L/453
14" Deep	Loading Spacing	55 PSF (40/10/5)	60 PSF (40/10/10)
		12 26' - 0" L/633	26' - 0" L/633
		16 26' - 0" L/475	26' - 0" L/475
		19.2 24' - 10" L/453	24' - 10" L/453
16" Deep	Loading Spacing	55 PSF (40/10/5)	60 PSF (40/10/10)
		12 28' - 0" L/676	28' - 0" L/676
		16 28' - 0" L/507	28' - 0" L/507
		19.2 27' - 4" L/453	27' - 4" L/453
18" Deep	Loading Spacing	55 PSF (40/10/5)	60 PSF (40/10/10)
		12 30' - 0" L/710	30' - 0" L/710
		16 30' - 0" L/532	30' - 0" L/532
		19.2 29' - 10" L/451	29' - 10" L/451
	Loading Spacing	55 PSF (40/10/5)	60 PSF (40/10/10)
		24 25' - 5" L/450	25' - 5" L/450
		24 27' - 7" L/468	27' - 3" L/473

### Notes on Span Charts:

- Spans are based on uniformly loaded joists and include allowances for repetitive use members.
- Live loads of 40 psf are assumed. Additional dead loads should be chosen based on construction materials.
- All *TrimJoist* floor joists have a TOP orientation and should not be installed upside-down.
- Stiffness factors (L/xxx) assume a minimum ¾-inch span-rated subfloor that has been both *glued and nailed*.
- Limit total reaction (per end) to that indicated in the Maximum Reaction Table at the right.
- Do not apply center supports, cantilevers, concentrated, or asymmetrical continuous loads without first consulting a *TrimJoist* representative.

### Maximum Reaction Table

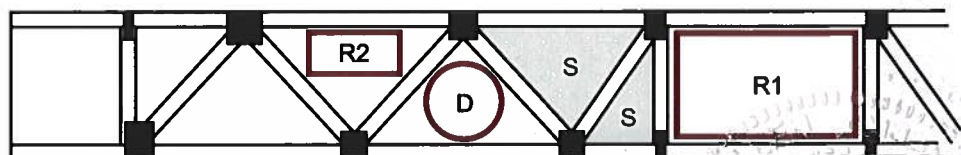
Width	1½	3½	5½
Max	3000	3500	4000

Width is the width of the loaded wall above, or the bearing wall width whichever is less.

**A Note About Floor Stiffness:** Floor performance is greatly influenced by joist stiffness. Experience has shown that a floor system designed to minimum code acceptance may not meet the expectations of discerning owners. *TrimJoist* Corporation strongly recommends that floor spans be limited to those indicated in the charts above. The numbers in these charts far exceed minimum code requirements and are based on both *gluing and nailing* the subfloor. In cases where the subfloor is nailed only, spans remain the same, but the stiffness must be reduced by 20%. For optimal performance use screws in lieu of nails.

### Opening Sizes

	J12	J14	J16	J18
H	11 ¼"	14"	16"	18"
D	5"	8"	9"	10"
R1	8x16	10x24	12x24	14x24
R2	4x9	4x10 6x6	4x12 6x8	4x14 6x10 8x8



- All sizes given are in inches and denote maximum expected clearance.
- Rectangular opening (R1) is provided at centerline of stock length.
- Only opening D available in 4' stock length (one opening only).
- Only opening R1 available in 6' and 8' stock length.
- Openings R2 & D not applicable in shaded areas (s).

*Handwritten signature and date:*  
 10/10/2006

### Good Framing Practice...

- DO** Install *TrimJoists* right side up. TOP is stamped on the top of each joist.
- DO** Make sure that each *TrimJoist* bears on the bottom flange beneath the *TrimEnd* section or beneath the first metal plate if the *TrimEnd* section has been removed.
- DO** Use strongback stiffeners. Although not required for structural performance, strongback adds additional resistance to impact loadings.
- DO** Provide appropriate bearing width at each end of the *TrimJoist*. The required width can be found in the Maximum Reaction Table above. Use vertical web stiffeners where reactions exceed these values.
- DO** Use *TrimJoist* approved hangers for flush-mounted bearing conditions. These may be purchased from your local *TrimJoist* dealer.
- DO** Use an appropriately rated sub-floor that has been both glued and nailed/screwed to the top flange of the *TrimJoist*.
- DO** Consult your *TrimJoist* dealer or representative about special loading or bearing conditions not addressed in this Application Guide.

- DO NOT** cut any part of the *TrimJoist* except for the *TrimEnd* sections which are specifically designed to be field cut.
- DO NOT** remove, cut or alter any metal plate connector on the *TrimJoist* without first consulting a factory engineer.
- DO NOT** install the *TrimJoist* upside down without first consulting a *TrimJoist* factory engineer.
- DO NOT** use a *TrimJoist* as a header or beam except as may be instructed by a *TrimJoist* engineer.
- DO NOT** allow the *TrimJoist* to be supported by the top flange. All support must be from under the bottom flange.
- DO NOT** depend on "toe nailing" to provide adequate support capacity for flush-mounted framing. Consult your local *TrimJoist* dealer or a *TrimJoist* factory engineer for proper hanger selection.
- DO NOT** apply special support or load conditions without first consulting a *TrimJoist* representative.