

DATE 02/24/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000024164

APPLICANT LINDA RODER PHONE 752.2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER LOUISE MCLEAN PHONE

ADDRESS 1673 SW ANDERSON STREET LAKE CITY FL 32024

CONTRACTOR ISAAC BRATKOVICH PHONE 719.7143

LOCATION OF PROPERTY 90-W TO C-252,TL,GODBOLD RD,TL ON TOMPKINS,TL TO MARCIS
TR,STOP @ ANDERSON,LOT ON R, 2ND PLACE DOWN.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 74450.00

HEATED FLOOR AREA 1489.00 TOTAL AREA 2420.00 HEIGHT 17.10 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

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

PARCEL ID 14-4S-15-00370-007 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 2.50

000000984 CBC059323

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

EXISTING 06-0120-N BLK JTH Y

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

COMMENTS: 1 FOOT ABOVE ROAD. SECTION 14.9 SPECIAL FAMILY LOT PERMIT.

Check # or Cash 2345

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by

Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by

Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by

Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by

Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by

M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 375.00 CERTIFICATION FEE \$ 12.10 SURCHARGE FEE \$ 12.10

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

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 474.20

INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

McLean

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0602-02 Date Received 2/1 By JW Permit # 984 / 24164
Application Approved by - Zoning Official B2K Date 07.02.06 Plans Examiner OK-JTH Date 2-15-06
Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
Comments NO NOC Section 14.9 Special Family Lot Permit

Applicants Name Linda Rodar / Melodie Rodar Phone 386-752-2281
Address 387 S.W. Kemp Ct. Lake City FL 32024
Owners Name Louise A. McLean Phone 719-7143
911 Address 1673 S.W. Anderson Lake City FL 32024
Contractors Name Isaac Construction Phone 719-7143
Address PMB 338, 2109 W. Hwy 90, Suite 170 Lake City FL 32055
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Will Myers
Mortgage Lenders Name & Address NA
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 14-45-15-00370-007 Estimated Cost of Construction 100 K
Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____
Driving Directions S.W. Pinemount Rd (252) L on Goobold, L on RKA Tompkins Rd,
R on S.W. Marc's Terrace, stop at S.W. Anderson St. - Lot,
on R. 2nd house down

Type of Construction SFD Number of Existing Dwellings on Property 0
Total Acreage 2.50 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 100' Side 93'-11" Side 94' Rear 283'-2"
Total Building Height 17'-10" Number of Stories 1 Heated Floor Area 1489 Roof Pitch 7-12
PORCHES 603 GARAGE 328 TOTAL 2420

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

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

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA



Barbara C. Webster
Commission # DD329279
Expires July 2, 2008
Bonded Troy Pain Insurance, Inc. 800-385-7010

Contractor Signature

Contractors License Number CBC 099323

Competency Card Number _____

NOTARY STAMP/SEAL

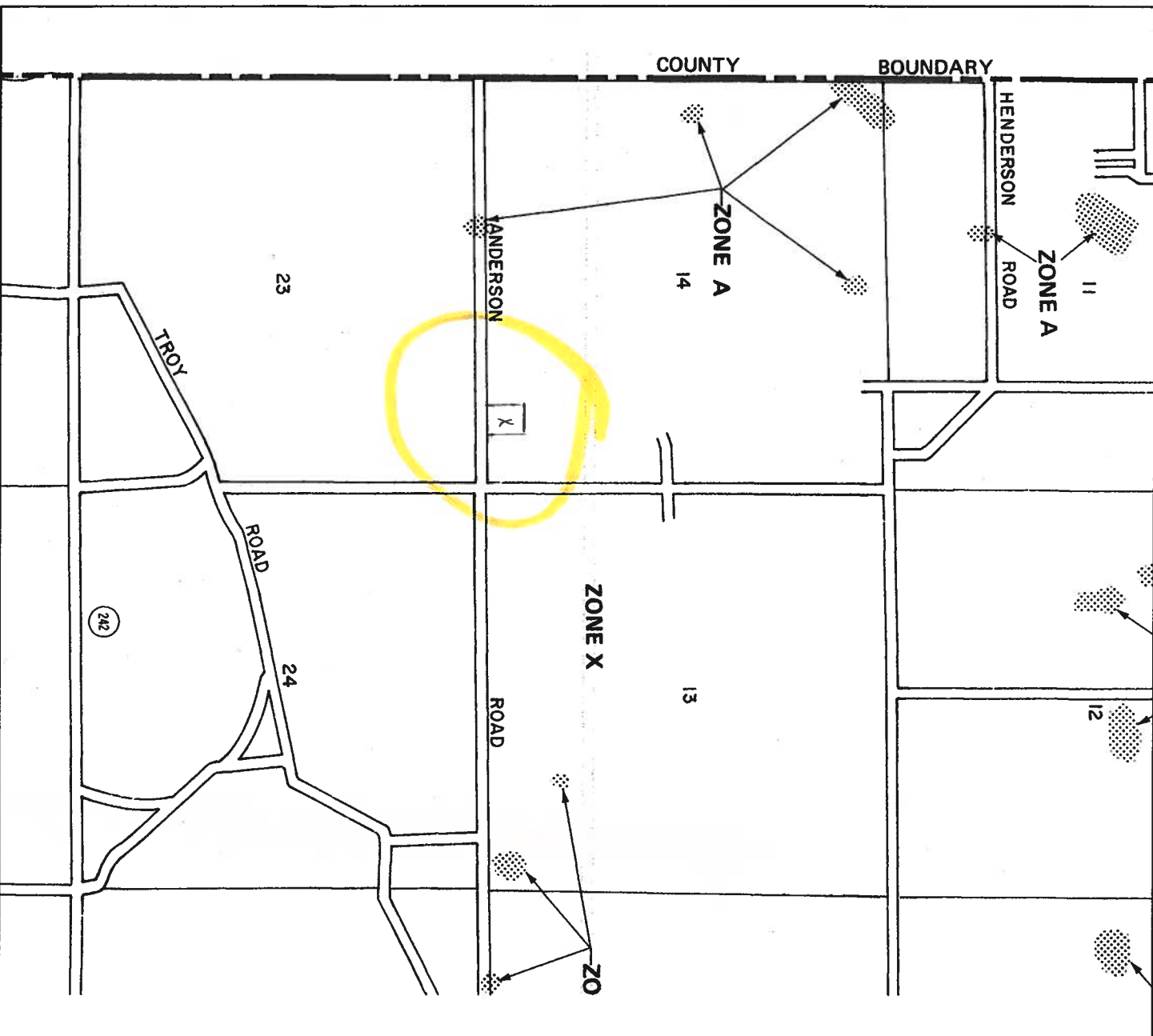
Sworn to (or affirmed) and subscribed before me

this _____ day of _____ 20____

Personally known _____ or Produced Identification _____

Notary Signature

Barbara C Webster



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER

120070 0175 B

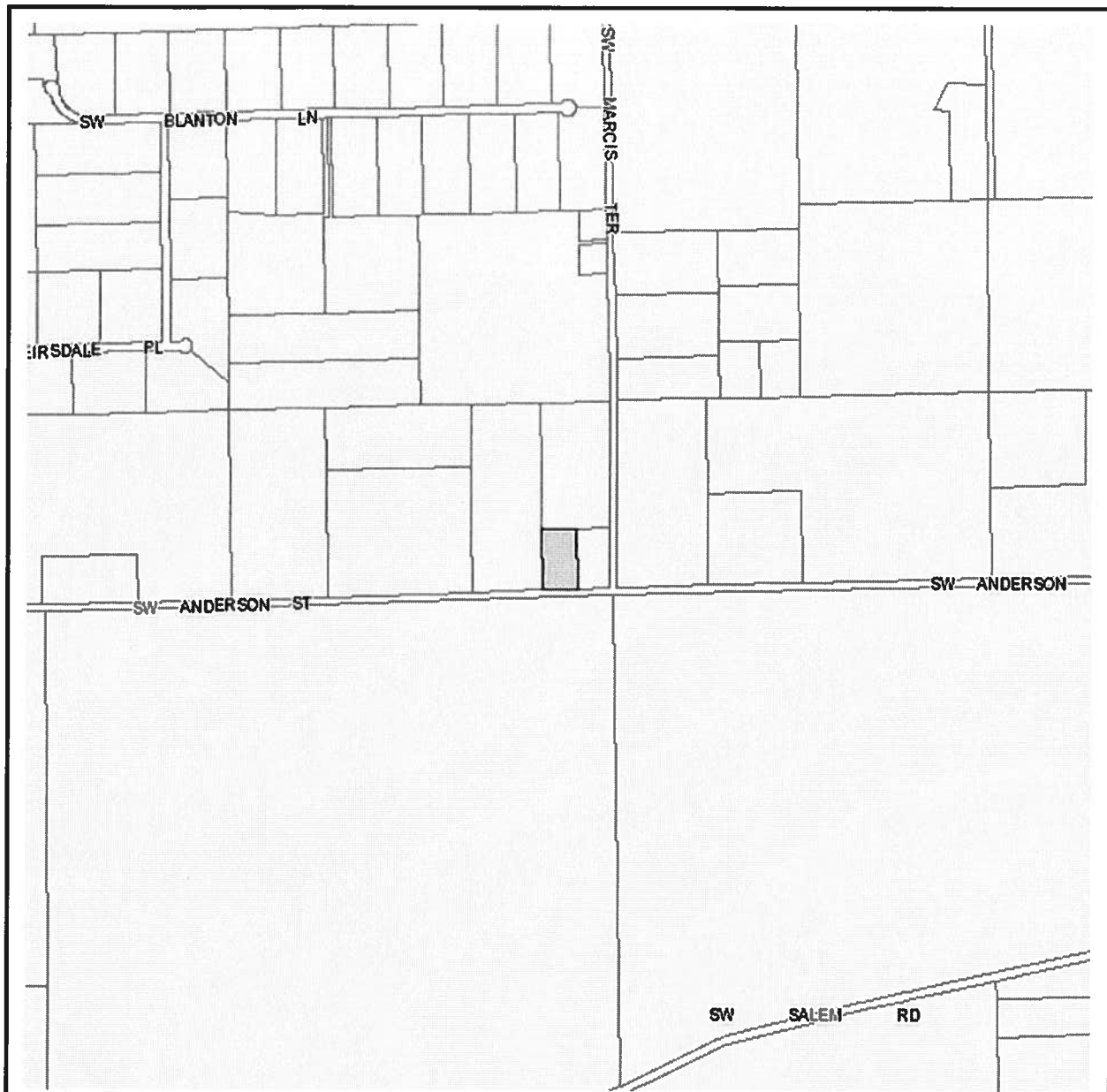
EFFECTIVE DATE:

JANUARY 6, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-411T Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/nifm.



Columbia County Property Appraiser

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

PARCEL: 14-4S-15-00370-007 - NO AG ACRE (009900)

COMM SE COR OF SEC, RUN W 246.61 FT TO POB, W 246.74 FT, N 441.89 FT, E 246.74 FT,

Name: MCLEAN LOUISE A

Site:

Mail: 1655 BLUFF VILLAS
HILTON HEAD, SC 29928

Sales 10/4/2005 \$100.00V / U

Info 7/18/2005 \$112,500.00V / Q

LandVal \$15,000.00

BldgVal \$0.00

ApprVal \$15,000.00

JustVal \$15,000.00

Assd \$15,000.00

Exmpt \$0.00

Taxable \$15,000.00

0 0.09 0.18 0.27 mi



This information, GIS Map Updated: 1/9/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Prepared by and return to:
GUY W. NORRIS, Attorney at Law
NORRIS & JOHNSON, P.A.
P. O. Drawer 2348
Lake City, Florida 32056-2348

From a legal description provided by Grantor
and without a title search

Inst:2005020318 Date:11/16/2005 Time:12:36

Doc Stamp-Deed : 0.70

PK PC, P. DeWitt Cason, Columbia County B:1065 P:600

WARRANTY DEED

THIS INDENTURE, Made this 4th day of October, 2005, between FRANK VITANI and CANDIE VITANI, husband and wife, whose address is 11950 66th Place North, West Palm Beach, Florida 33411, hereinafter called the Grantors, and LOUISE A. McLEAN, whose address is 1655 Bluff Villas, Hilton Head, South Carolina 29928, hereinafter called the Grantee,

WITNESSETH:

That said Grantors, for and in consideration of the sum of TEN and No/100 DOLLARS (\$10.00), and other good and valuable considerations to said Grantors in hand paid by said Grantee, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

TOWNSHIP 4 SOUTH, RANGE 15 EAST

Section 14: Commence at the SE Corner of Section 14, Township 4 South, Range 15 East, Columbia County, Florida and run S. 89°19'33" W., along the South line thereof, 246.81 feet to the Point of Beginning; thence continue S. 89°19'33" W., still along said South line, 246.74 feet; thence N. 00°01'30" W., 441.89 feet; thence N. 89°15'46" E., 246.74 feet; thence S. 00°01'30" E., 442.16 feet to the POINT OF BEGINNING. Containing 2.50 acres, more or less.

Parcel No.14-4S-15-00370-005

SUBJECT TO: Ad valorem taxes and special assessments for 2005 and subsequent years; restrictions and easements of record; easements shown by a plat of the property; visible easements; and existing county maintained right-of-way.

N.B.: The Grantee is the sister of the Grantor, Candie Vitani.

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

IN WITNESS WHEREOF, Grantors have hereunto set Grantors' hands and seals the day and year first above written.

Signed, sealed and delivered
in the presence of:

Sign

Print *Theresa N. [Signature]*
Theresa N. [Signature]

Sign

Print *Anna M. [Signature]*
Anna M. [Signature]

FRANK VITANI V350275641960 x10

CANDIE VITANI V350108648450 x11

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 4th day of October, 2005, by FRANK VITANI and CANDIE VITANI, husband and wife, each of whom is personally known to me or has produced FL DLID as identification.



NOTARY PUBLIC: [Signature]
Sign [Signature]
Print NORMA ZUBIATE
State of Florida at Large (Seal)
My Commission Expires:

Inst:2005028518 Date:11/16/2005 Time:12:34
Doc Stamp-Deed : 0.70
JC,P.Dewitt Cason,Columbia County R:1065 P:601

246.74'

15'-0" REAR SETBACK

SAAC CONSTRUCTION, INC.
LOUISE McLEAN
PARCEL "B" 2.5 ACRES +/-
COLUMBIA COUNTY, FL 32025

283'-2"

283'-2"

441.89'

10'-0" SIDE SETBACK

442.18'

10'-0" SIDE SETBACK

93'-11"

58'-8"

94'-0"

SEPTIC
TANK
DRAIN FIELD

58'-0"

58'-0"

93'-11"

58'-8"

94'-0"

100'-0"

100'-0"

25'-0" FRONT SETBACK

SCALE: 1" = 45'-0"

246.72'

ANDERSON ROAD

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	Isaac Construction - Mclean Res.	Builder:	Isaac Construction, Inc
Address:	Anderson Road	Permitting Office:	0047740
City, State:	Lake City, FL 32025-	Permit Number:	29164
Owner:	Louise Mclean	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 35.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1489 ft²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 35.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 7.00
(or Single or Double DEFAULT) 7a. (Dble Default) 281.0 ft²		b. N/A	
b. SHGC:		c. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 281.0 ft²		14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 50.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 184.0(p) ft		EF: 0.90
b. N/A		b. N/A	
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=19.0, 867.0 ft²	DHP-Dedicated heat pump)	
b. Frame, Wood, Adjacent	R=13.0, 286.0 ft²	15. HVAC credits	PT,
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 1550.0 ft²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft		
b. N/A			

Glass/Floor Area: 0.19

Total as-built points: 20368

Total base points: 20391

PASS

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

PREPARED BY: Will MyersDATE: 12-22-05

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

OWNER/AGENT: John BakerDATE: 1-04-06

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

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT								
GLASS TYPES												
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang		Ornt Len Hgt Area X SPM X SOF = Points					
.18	1489.0	20.04	5371.1	Double, Clear	W	1.5	8.0	30.0	38.52	0.96	1107.3	
				Double, Clear	W	10.5	8.0	20.0	38.52	0.47	362.6	
				Double, Clear	W	10.5	8.0	40.0	38.52	0.47	725.2	
				Double, Clear	N	9.5	8.0	60.0	19.20	0.68	785.0	
				Double, Clear	NW	12.5	8.0	10.0	25.97	0.57	148.3	
				Double, Clear	NE	12.5	8.0	10.0	29.56	0.50	149.2	
				Double, Clear	E	9.5	8.0	30.0	42.06	0.47	594.4	
				Double, Clear	E	1.5	8.0	36.0	42.06	0.96	1450.0	
				Double, Clear	E	1.5	8.0	15.0	42.06	0.96	604.2	
				Double, Clear	S	1.5	8.0	10.0	35.87	0.92	331.2	
				Double, Clear	E	1.5	8.0	4.0	42.06	0.96	161.1	
				Double, Clear	S	1.5	8.0	16.0	35.87	0.92	529.8	
				As-Built Total:					281.0			6948.1
WALL TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM = Points			
Adjacent	286.0	0.70	200.2	Frame, Wood, Exterior		19.0		867.0	0.90	780.3		
Exterior	867.0	1.70	1473.9	Frame, Wood, Adjacent		13.0		286.0	0.60	171.6		
Base Total:		1153.0	1674.1	As-Built Total:				1153.0	951.9			
DOOR TYPES				Area X BSPM = Points		Type			Area X SPM = Points			
Adjacent	18.0	1.60	28.8	Exterior Insulated				20.0	4.10	82.0		
Exterior	20.0	4.10	82.0	Adjacent Insulated				18.0	1.60	28.8		
Base Total:		38.0	110.8	As-Built Total:				38.0	110.8			
CEILING TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM X SCM = Points			
Under Attic	1489.0	1.73	2576.0	Under Attic		30.0		1550.0	1.73 X 1.00	2681.5		
Base Total:		1489.0	2576.0	As-Built Total:				1550.0	2681.5			
FLOOR TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM = Points			
Slab	184.0(p)	-37.0	-6808.0	Slab-On-Grade Edge Insulation		0.0		184.0(p)	-41.20	-7580.8		
Raised	0.0	0.00	0.0									
Base Total:			-6808.0	As-Built Total:				184.0	-7580.8			

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE			AS-BUILT		
INFILTRATION Area X BSPM = Points			Area X SPM = Points		
1489.0	10.21	15202.7	1489.0	10.21	15202.7
Summer Base Points: 18126.7			Summer As-Built Points: 18314.2		
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier X System Multiplier X Credit Multiplier = Cooling Points
18126.7	0.4266	7732.8	(sys 1: Central Unit 35000 btuh, SEER/EFF(12.0) Ducts: Unc(S), Unc(R), Gar(AH), R6.0(INS) 18314 1.00 (1.09 x 1.147 x 1.00) 0.284 0.950 6186.7 18314.2 1.00 1.250 0.284 0.950 6186.7		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ormt Len Hgt			Area X WPM X WOF = Points			
.18	1489.0	12.74	3414.6	Double, Clear	W	1.5	8.0	30.0	20.73	1.01	628.8
				Double, Clear	W	10.5	8.0	20.0	20.73	1.19	495.0
				Double, Clear	W	10.5	8.0	40.0	20.73	1.19	990.1
				Double, Clear	N	9.5	8.0	60.0	24.58	1.02	1505.0
				Double, Clear	NW	12.5	8.0	10.0	24.30	1.03	250.4
				Double, Clear	NE	12.5	8.0	10.0	23.57	1.05	248.3
				Double, Clear	E	9.5	8.0	30.0	18.79	1.34	753.7
				Double, Clear	E	1.5	8.0	36.0	18.79	1.02	690.0
				Double, Clear	E	1.5	8.0	15.0	18.79	1.02	287.5
				Double, Clear	S	1.5	8.0	10.0	13.30	1.04	138.4
				Double, Clear	E	1.5	8.0	4.0	18.79	1.02	76.7
				Double, Clear	S	1.5	8.0	16.0	13.30	1.04	221.5
				As-Built Total:			281.0			6285.4	
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	288.0	3.60	1029.6	Frame, Wood, Exterior	19.0			867.0	2.20	1907.4	
Exterior	867.0	3.70	3207.9	Frame, Wood, Adjacent	13.0			288.0	3.30	943.8	
Base Total:		1153.0	4237.5	As-Built Total:			1153.0			2851.2	
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	18.0	8.00	144.0	Exterior Insulated				20.0	8.40	168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated				18.0	8.00	144.0	
Base Total:		38.0	312.0	As-Built Total:			38.0			312.0	
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	1489.0	2.05	3052.4	Under Attic	30.0			1550.0	2.05 X 1.00	3177.5	
Base Total:		1489.0	3052.4	As-Built Total:			1550.0			3177.5	
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	184.0(p)	8.9	1637.6	Slab-On-Grade Edge Insulation	0.0			184.0(p)	18.80	3459.2	
Raised	0.0	0.00	0.0								
Base Total:			1637.6	As-Built Total:			184.0			3459.2	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE			AS-BUILT				
INFILTRATION Area X BWPM = Points			Area X WPM = Points				
1489.0 -0.59 -878.5			1489.0 -0.59 -878.5				
Winter Base Points: 11775.6			Winter As-Built Points: 15206.8				
Total Winter X System = Heating Points Multiplier Points			Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)				
11775.6 0.6274 7388.0			(sys 1: Electric Heat Pump 35000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 15206.8 1.000 (1.069 x 1.169 x 1.00) 0.487 0.950 8794.5 15206.8 1.00 1.250 0.487 0.950 8794.5				

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

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	Tank	Multiplier	Credit
Number of	X	Multiplier	= Total	Volume		Bedrooms	Ratio	X	= Total
Bedrooms								Multiplier	Multiplier
2		2635.00	5270.0	50.0	0.90	2	1.00	2693.56	1.00
				As-Built Total:					5387.1

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling	+	Heating	+	Cooling	+	Heating	+
Points		Points		Points		Points	
Hot Water	=	Total		Hot Water	=	Total	
Points		Points		Points		Points	
7733		7388		6187		8794	
		5270				5387	
		20391				20368	

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Anderson Road, Lake City, FL, 32025-

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* = 83.5

The higher the score, the more efficient the home.

Louise Mclean, Anderson Road, Lake City, FL, 32025-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 35.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1489 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 35.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 281.0 ft ²		HSPF: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 281.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 184.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=19.0, 867.0 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 286.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1550.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft		
b. N/A			

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

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



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

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

FROM :

FAX NO. : 386-755-7022

Sep. 17 2002 01:52PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1884
FAX (904) 755-7022
1720 NORTH HART STREET
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

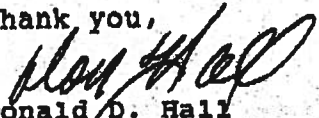
June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk

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

0602-2

Reference to: Build permit application Number:

Isaac Construction Owner Louise McLean 1673 SW Anderson

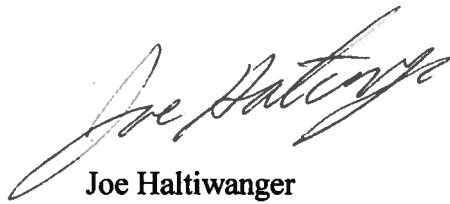
On the date of February 07, 2006 application 0602-02 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0602-02 when making reference to this application.

1. Please submit a recorded (with the Columbia County Clerk Office) a notice of commencement before any inspections can be preformed by the Columbia County Building Department.
2. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
3. Please have Mr. Nicholas Geisler supply the following information, show all required connectors with uplift rating for the truss system and required number and size of

fasteners for continuous tie from the roof to foundation. These connection points shall be designed by an architect or engineer using the engineered roof truss plans.

Thank you,

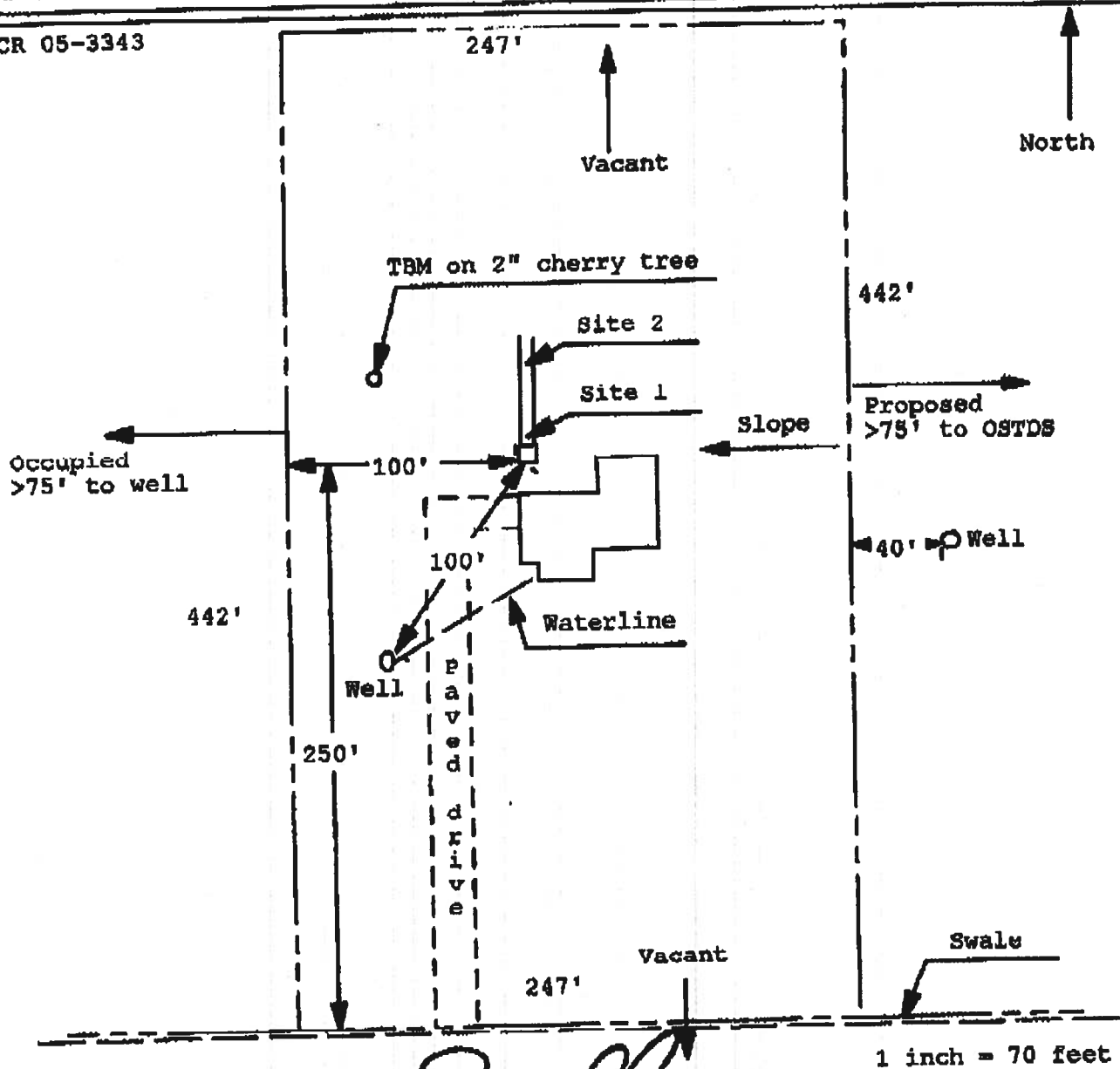
A handwritten signature in black ink, appearing to read "Joe Haltiwanger". The signature is fluid and cursive, with a large initial "J" and a stylized "H".

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0120N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

MCLEAN/CR 05-3343



Site Plan Submitted By Paul L. L...

Date 2/7/06

Plan Approved ☒ Not Approved ☐

Date

By Sally Maddy, ES II

2200 CPHU

Columbia CHD

Notes:

COLUMBIA COUNTY 9-1-1 ADDRESSING

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

McLean

Addressing Maintenance

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

DATE REQUESTED: 1/3/2006 DATE ISSUED: 1/17/2006

ENHANCED 9-1-1 ADDRESS:

1673 SW ANDERSON

ST

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

14-4S-15-00370-007

Remarks:

Address Issued By: 

Columbia County 9-1-1 Addressing / GIS Department

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

18

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

COLUMBIA COUNTY OFFICE OF OCCUPANCY

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 14-4S-15-00370-007

Building permit No. 000024164

Use Classification SFD/UTILITY

Fire: 67.00

Permit Holder ISAAC BRATKOVICH

Waste: 201.00

Owner of Building LOUISE MCLEAN

Total: 268.00

Location: 1673 SW ANDERSON STREET, LAKE CITY, FL

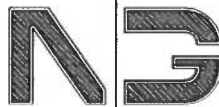
Date: 10/05/2006



[Signature]

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



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

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

13 FEBRUARY 2006

JOHNNY KEARSE, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: McLEAN RESIDENCE, PARCEL B, ANDERSON ROAD
PERMIT Nr.: 0602-02

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CHANGES TO THE CONSTRUCTION
DOCUMENTS FOR THE ABOVE REFERENCED PROJECT:

IN LIEU OF THE TRUSS ANCHORS INDICATED IN THE CON DOCS, IT SHALL
BE PERMISSIBLE TO ANCHOR THE TRUSSES TO THE WALL FRAMING WITH
"SIMPSON" H2.5A ANCHORS, THROUGHOUT.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR
ASSISTANCE.

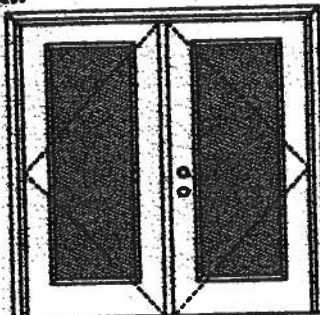
YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

Double Door
Maximum unit size - 6'0" x 6'8"

Design Pressure
+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed -- see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed -- see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:



100 Series



130, 135 Series



136 Series



680 Series



822 Series

1/2 GLASS:



105 Series*



106, 160 Series*



120 Series*



200 Series*



12 RA, 20 RA, 24 RA Series*



167 Series*



108 Series



304 Series

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

Johnson
EntrySystems

March 22, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from

Masonite

Masonite International Corporation

XX

Glazed Outswing Unit

COP-V/L JH4162-02

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

404 Series



416 Series



450 Series

FULL GLASS:

100 Series

114, 120, 132
Series

162 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202
COMPANY NAME
CITY, STATE

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

State of Florida, Professional Engineer
Kurt Balhazor, P.E. - License Number 56533

Johnson
EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

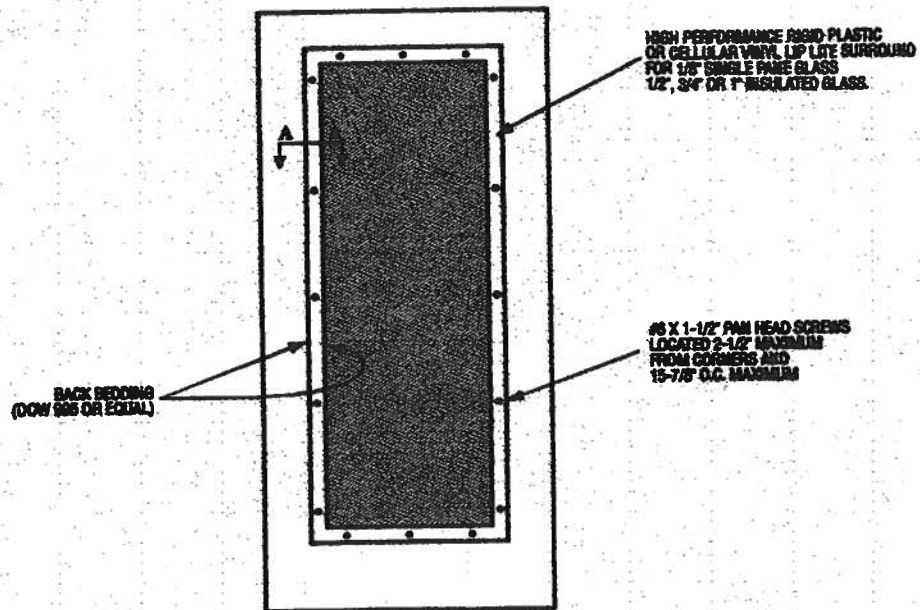


Exclusively from

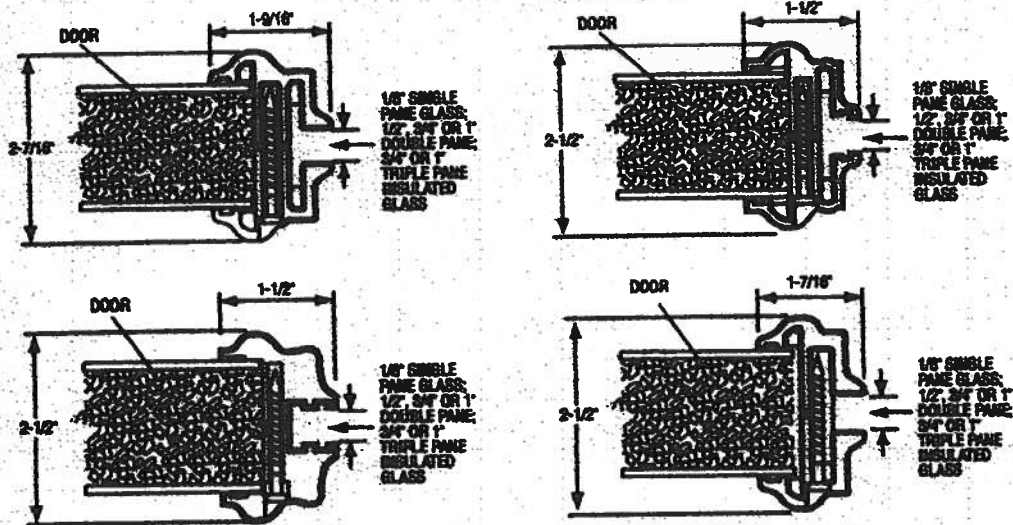
Masonite

Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMIER Collection
Premium Quality Doors



Exclusively from

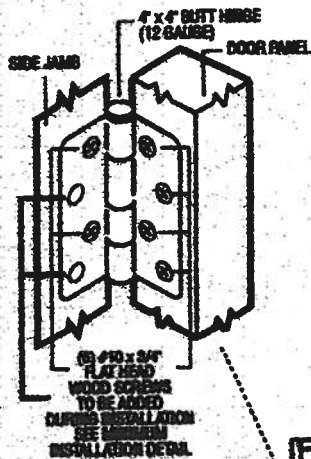
Masonite
Masonite International Corporation

XX
Unit

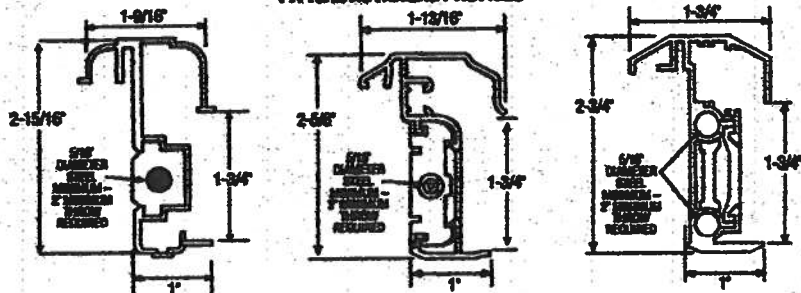
MAD-WL MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

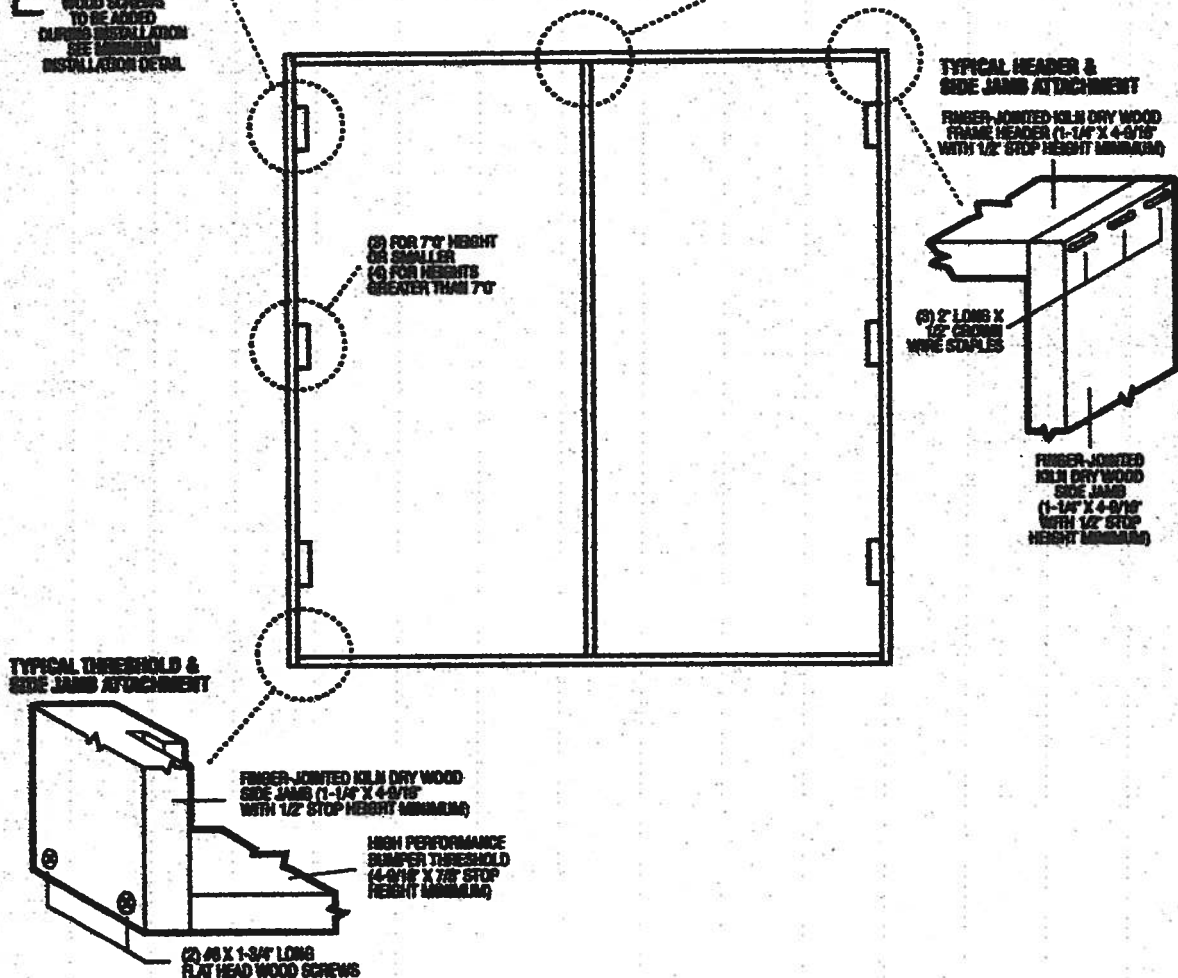
TYPICAL HINGE ATTACHMENT



TYPICAL ASTRAGAL PROFILES



ALUMINUM EXTRUDED ASTRAGAL (0.05\"/>



March 29, 2002
Our continuing program of product improvement and/or specification changes and product detail subject to change without notice.

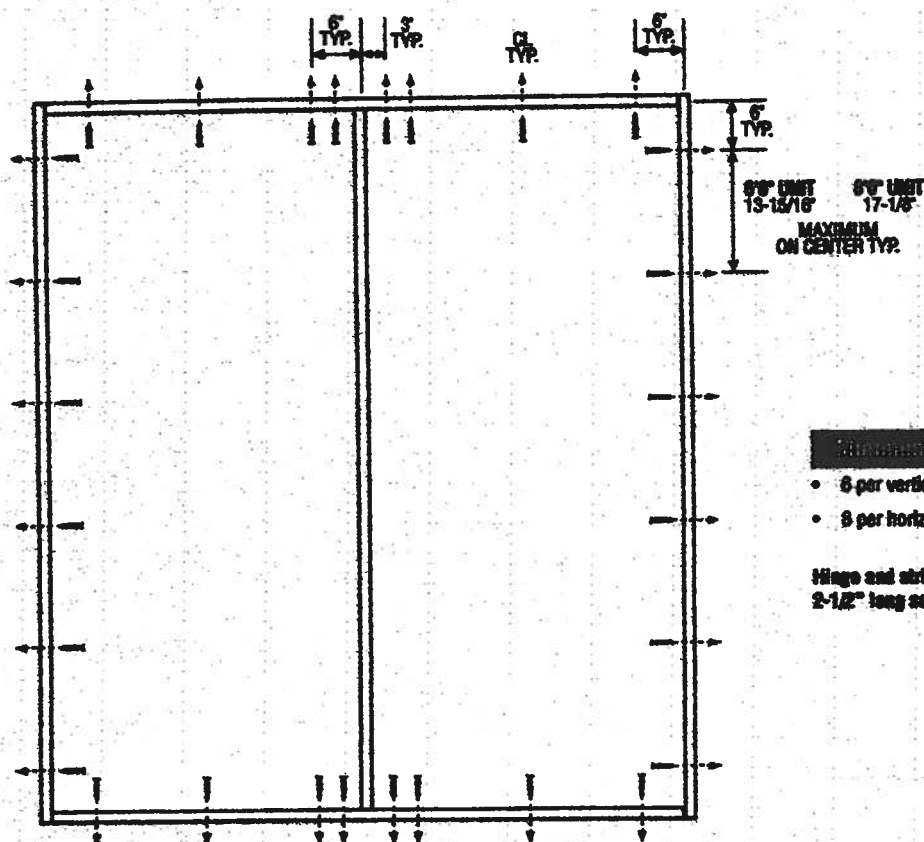


Exclusively from
Masonite
Masonite International Corporation

XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AP & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002

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



Exclusively from

Masonite

Masonite International Corporation

Florida Building Code Online



Building Code Information System

FLORIDA BUILDING CODE

Overview User Registration Organization Search

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (All)

Organization Name: General American Door - Product Manufacturer

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expiry	Status
General American Door	Montgomery	James Campbell	678-591000	Product Manufacturer	01/01/2009	Approved
Org Code: PDM	System ID: 3385	Web Link: www.gadco.com				

Displaying 1-1 of 1

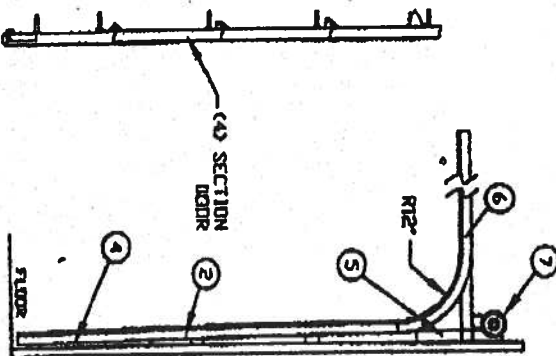
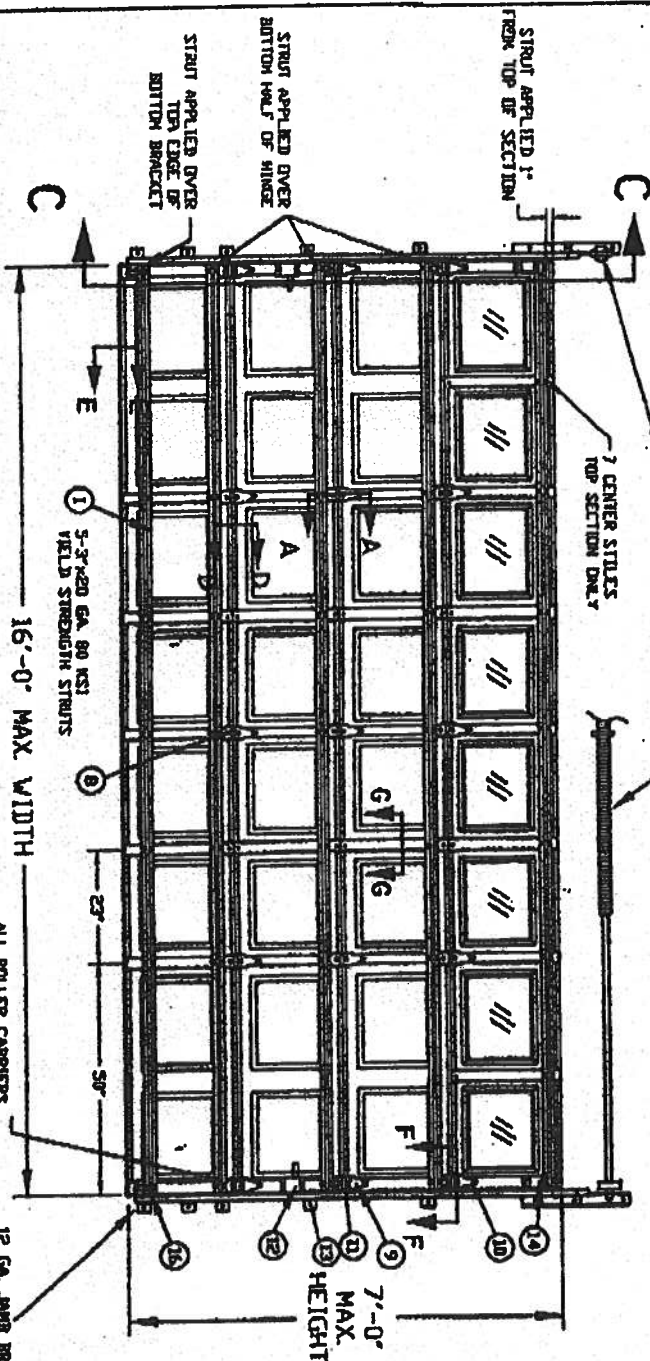
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http://www.floridabuilding.org/Commcode_org_reg_SRCH.asp

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF WINDS AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. WINDOW SECTION HEIGHT= 21'
3. SECTION HEIGHTS OF 21'0" AND 19'0" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACCOMMODATE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION, WAS TESTED WITH LOW BOB GLASS OR EQUIVALENT OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STICK IS 34" OR AS TESTED
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SOWE
7. STRUTS SECURED AT ALL LOCATIONS WITH TIE SCREWS
8. QUANTITY OF TIE LOCKS CAN BE Q1 OR Q2 AS NOTED.
9. BRIDGE IN TYPE OF INSULATION IS OPTIONAL

NOT PART OF WIND LOAD SYSTEM
EXTENSION SPRING COUNTERBALANCE
TORSION SPRING COUNTERBALANCE



SEC. C-E
VERTICAL
TRACK, (16 GA.)

12 GA. JAMB BRACKETS, MAXIMUM SPACING = 19-1/2" WITH
LOWEST BRACKET APPROX. 3" FROM FLUOR, 2ND BRACKET
NEAR THE HORIZONTAL 5 OF THE BOTTOM SECTION, 4TH AND 3RD
BRACKET NEAR THE TOP OF THE BOTTOM SECTION

INSIDE ELEVATION
16'-0" MAX WIDTH

ALL ROLLER CARRIERS
AND HINGES ARE 14 GA.

The seal on this drawing only
illustrates that the product(s)
represented and described herein
conforms to the installation(s) of
the door as tested.



TEST REPORTS ON FILE VIDEO 10/19/00 006930

GABCO DOORS
SERIES 7400, EXTERIOR STEEL = 017 NON GAS TESTED
SERIES 7825, EXTERIOR STEEL = 019" NON A
SERIES 7524, EXTERIOR STEEL = 024" NON A
TESTED WITH WINDOWS

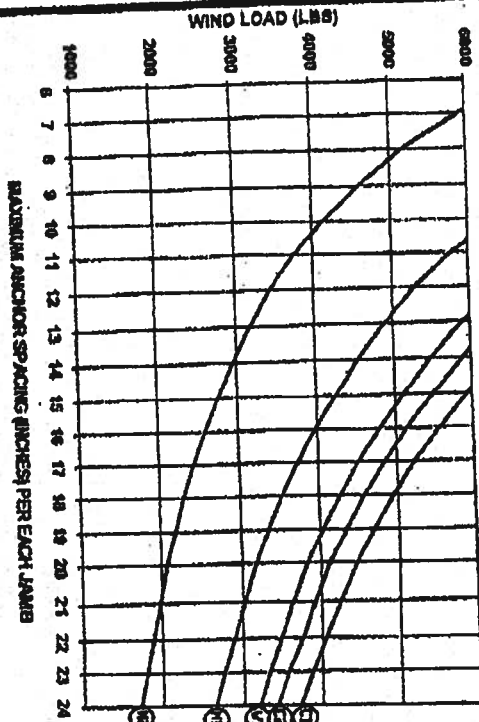
MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS BO PSI SIZE	VERTICAL TRACK
16'	7'	23"	3"	5
				2 IN.



GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MIDGEMORY, IL 600538

DESIGN LOAD +200 PSF & -200 PSF TEST LOAD +300 PSF & -300 PSF	APPROVED BY	REVISED (C) 11-10-03
DATE 10-20-03	REVISED (C) 11-10-03	
15' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD 300 PSF		
PAGE 1 OF 2		VIDEO 10/19-00

WIND LOAD VS ANCHOR SPACING



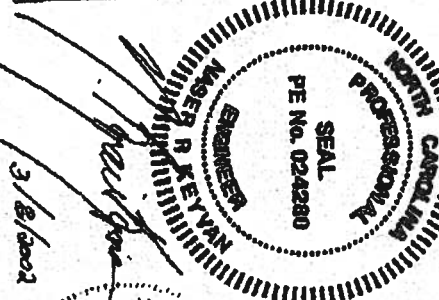
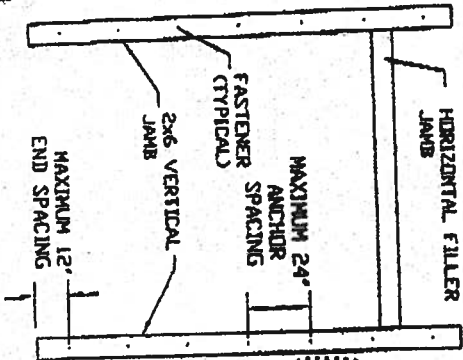
- 1) CONCRETE BRACKET WITH 1/2" EYE BOLT OR EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT
- 2) CONCRETE BRACKET WITH 1/2" EYE BOLT OR EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT
- 3) CONCRETE BRACKET WITH 1/2" EYE BOLT OR EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT
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DESIGN (LBS) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS)
LOAD FT²

MAXIMUM ANCHOR SPACING (INCHES) PER EACH JAMB

EXAMPLE

30 LBS X 06 FT WIDE X 8 FT HIGH = 3940 LBS
FT²
1) USE 22" SPACING
2) USE 24" SPACING
3) USE 19" SPACING
SEE NOTE 2 FOR ADDITIONAL REQUIRED 2x6 VERTICAL JAMB ANCHORS



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) VERTICAL JAMB SHALL BE ANCHORED TO BUILDING VERTICAL FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

- 1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCI STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10, CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) VERTICAL FRAME BUILDINGS STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2x6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FLOORING TO DOUBLE TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE 2x6 VERTICAL JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNIT (CMU) TYPE WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2500 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3'-3/4".
- 8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TOP OF 2x6 VERTICAL STUDS.
- 9) WASHERS ARE REQUIRED ON ALL FASTENERS.
- 10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.
- 11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2x6 VERTICAL JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2x6 VERTICAL JAMB ANCHORS, ADD AN ADDITIONAL 2x6 VERTICAL JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO VERTICAL JAMB ANCHORS.

GENERAL AMERICAN DOOR COMPANY	
3000 BASSETT ROAD	
MONTGOMERY, IL 60538	
DATE: 6-30-99	REVISED BY: DIV
FOR STRUCTURE ATTACHMENT	
FOR WIND LOADED GARAGE DOORS	
DESIGN: N0502	PROJECT NUMBER:



FEB - 4 REC'D

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

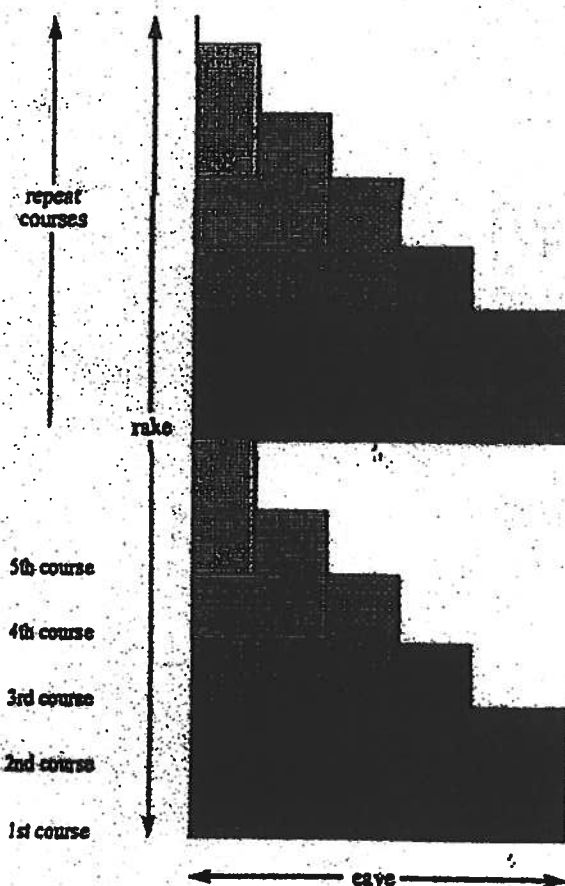
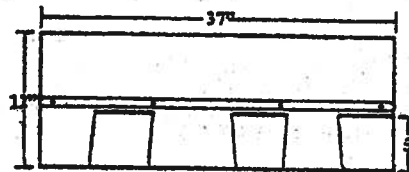
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

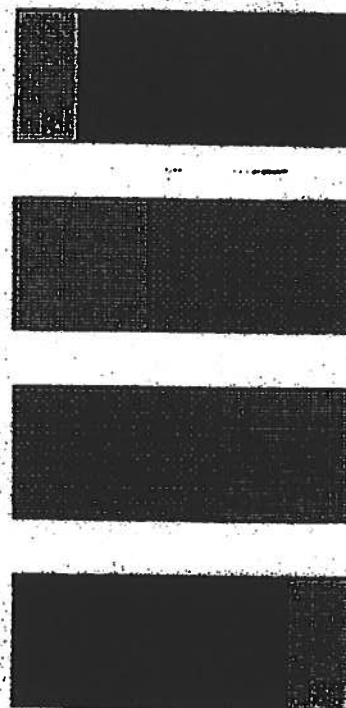


Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.



Application Instructions for

- Glass-Seal
 - Glass-Seal AR
 - Elite Glass-Seal®
 - Elite Glass-Seal® AR
- THREE-TAB ASPHALT SHINGLES**

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER. IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thick, and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.

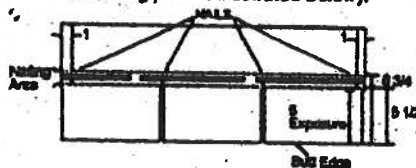
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

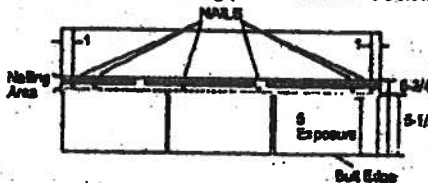
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagrams and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

- 1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below.)



- 2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fastener per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

Visit Our Web Site at
www.tamko.com

Central District	220 West 4th St., Joplin, MO 64801
Northeast District	4500 Tamko Dr., Frederick, MD 21701
Southeast District	2300 35th St., Tuscaloosa, AL 35401
Southwest District	7910 S. Central Exp., Dallas, TX 75216
Western District	6300 East 43rd Ave., Denver, CO 80216

800-841-4691
800-368-2066
800-228-2666
800-443-1834
800-530-8668

07/01

TAMKO

ROOFING PRODUCTS

(CONTINUED from Pg. 2)

• Glass-Seal
• Glass-Seal AR

• Elite Glass-Seal®
• Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

5. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

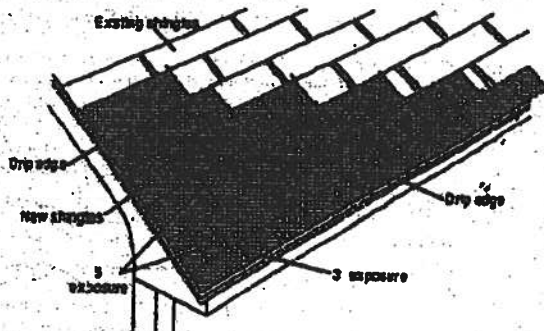
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the



rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingles used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

6. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 60 lb. re-roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

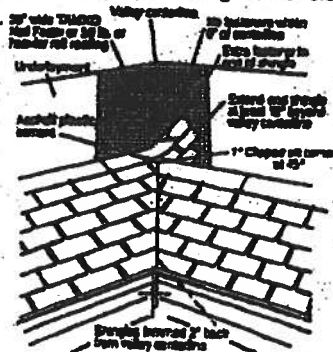
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

- **CAUTION:** Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

Visit Our Web Site at
www.tamko.com

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220 West 4th St., Joplin, MO 64801
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2300 35th St., Tuscaloosa, AL 35401
7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

800-841-4691
800-368-2055
800-228-2656
800-443-1834
800-530-8868

07/01



(CONTINUED from Pg. 3)

- Glass-Seal
- Glass-Seal AR

- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

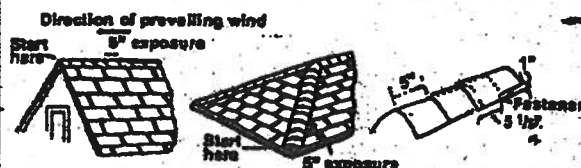
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

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Central District	220 West 4th St., Joplin, MO 64801
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Western District	5300 East 43rd Ave., Denver, CO 80216

800-841-4691
800-368-2056
800-228-2656
800-443-1834
800-530-8888

07/01

I

**AAMA/NWDA 101/1.9.2-97
TEST REPORT SUMMARY**

Rendered to:

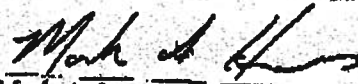
MI HOME PRODUCTS, INC.

**SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window**

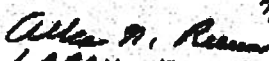
Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

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

For ARCHITECTURAL TESTING, INC.


Mark A. Hess, Technician

MAH:nib


1 APRIL 2002



II

Architectural Testing

AAMA/NWWDA 101/LS-2-97 TEST REPORT

Rendered to

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

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

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

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

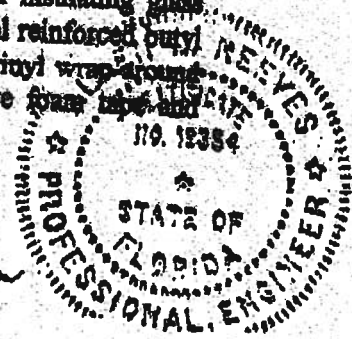
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

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

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

Allen M. Raman
1 APRIL 2002



III

Test Specimen Description: (Continued)

Weatherstripping:

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

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

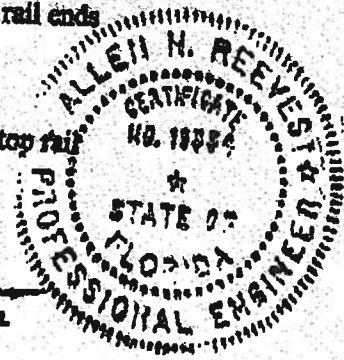
Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

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

Hardware:

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

Allen H. Reeves
1 APRIL 2002



IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max

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

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42" 0.43"	0.26" max. 0.26" max.

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

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



Test Specimen Description: (Continued)

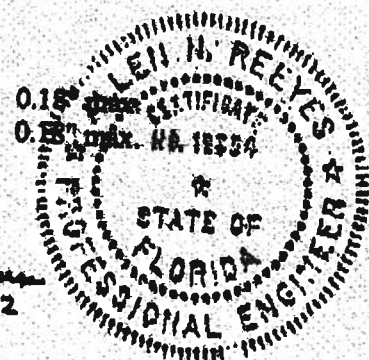
Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced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

Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 5.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"	0.26" max.
	@ 47.2 psf (negative)	0.46"	0.26" max.

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

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



Allen H. Reeves
1 APRIL 2002

VI

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

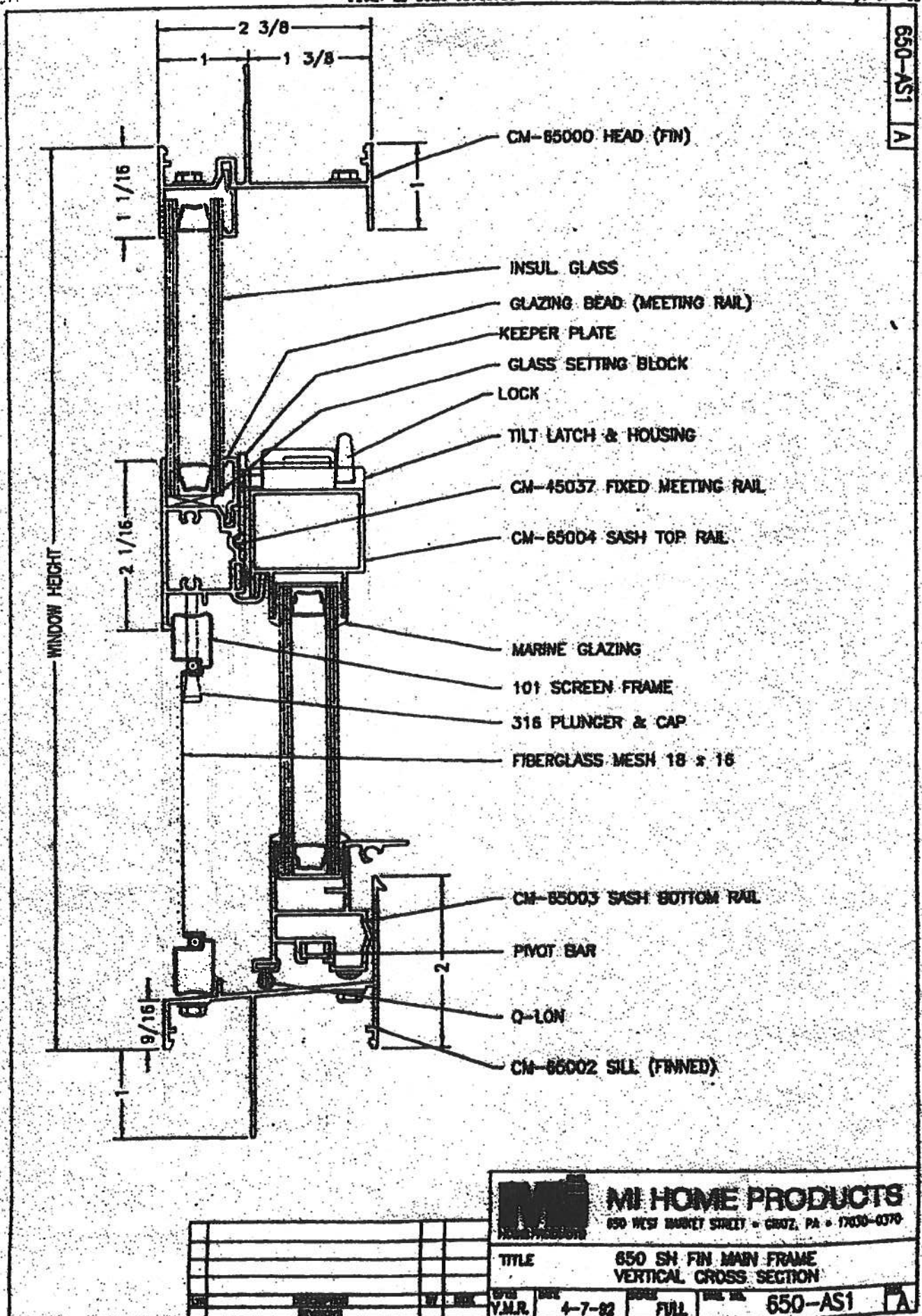
For ARCHITECTURAL TESTING, INC:


Mark A. Hess
Technician

MAH:alb
01-41134.01


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





[illegible]

Residential System Sizing Calculation

Summary

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

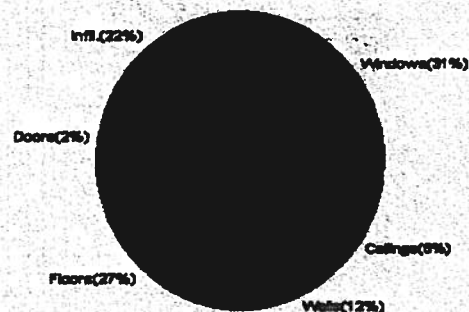
12/22/2005

Location for weather data: Gainesville - User customized: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	24 F
Total heating load calculation	29249 Btuh	Total cooling load calculation	33383 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.7 35000	Sensible (SHR = 0.75)	92.7 26250
Heat Pump + Auxiliary(0.0kW)	119.7 35000	Latent	172.3 8750
		Total (Electric Heat Pump)	104.8 35000

WINTER CALCULATIONS

Winter Heating Load (for 1489 sqft)

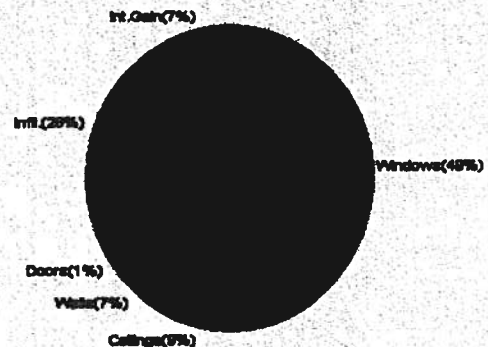
Load component		Load	
Window total	281 sqft	9045	Btuh
Wall total	1153 sqft	3418	Btuh
Door total	38 sqft	492	Btuh
Ceiling total	1550 sqft	1826	Btuh
Floor total	184 sqft	8033	Btuh
Infiltration	159 cfm	8433	Btuh
Duct loss		0	Btuh
Subtotal		29249	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		29249	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1489 sqft)

Load component		Load	
Window total	281 sqft	16497	Btuh
Wall total	1153 sqft	2378	Btuh
Door total	38 sqft	466	Btuh
Ceiling total	1550 sqft	2912	Btuh
Floor total		0	Btuh
Infiltration	139 cfm	3651	Btuh
Internal gain		2400	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		28304	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		5079	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		0	Btuh
Total latent gain		5079	Btuh
TOTAL HEAT GAIN		33383	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: Will Myers

DATE: 1-04-05

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

12/22/2005

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0		32.2	966 Btuh
2	2, Clear, Metal, 0.87	W	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	W	40.0		32.2	1288 Btuh
4	2, Clear, Metal, 0.87	N	60.0		32.2	1931 Btuh
5	2, Clear, Metal, 0.87	NW	10.0		32.2	322 Btuh
6	2, Clear, Metal, 0.87	NE	10.0		32.2	322 Btuh
7	2, Clear, Metal, 0.87	E	30.0		32.2	966 Btuh
8	2, Clear, Metal, 0.87	E	36.0		32.2	1159 Btuh
9	2, Clear, Metal, 0.87	E	15.0		32.2	483 Btuh
10	2, Clear, Metal, 0.87	S	10.0		32.2	322 Btuh
11	2, Clear, Metal, 0.87	E	4.0		32.2	129 Btuh
12	2, Clear, Metal, 0.87	S	16.0		32.2	515 Btuh
Window Total			281(sqft)			9045 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	867		2.9	2479 Btuh
2	Frame - Wood - Adj(0.09)	13.0	286		3.3	939 Btuh
Wall Total			1153			3418 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		18		12.9	233 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			38			492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1550		1.2	1826 Btuh
Ceiling Total			1550			1826 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	184.0 ft(p)		43.7	8033 Btuh
Floor Total			184			8033 Btuh
Zone Envelope Subtotal:						22815 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		Load
	Natural	0.80	11912	158.8		6433 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					29249 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

12/22/2005

	Subtotal Sensible	29249 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29249 Btuh

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

(Frame types - metal, wood or insulated metal)

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

(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

12/22/2005

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
4	2, Clear, Metal, 0.87	N	60.0	32.2	1931 Btuh
5	2, Clear, Metal, 0.87	NW	10.0	32.2	322 Btuh
6	2, Clear, Metal, 0.87	NE	10.0	32.2	322 Btuh
7	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
9	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
10	2, Clear, Metal, 0.87	S	10.0	32.2	322 Btuh
11	2, Clear, Metal, 0.87	E	4.0	32.2	129 Btuh
12	2, Clear, Metal, 0.87	S	16.0	32.2	515 Btuh
Window Total			281(sqft)		9045 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	867	2.9	2479 Btuh
2	Frame - Wood - Adj(0.09)	13.0	286	3.3	939 Btuh
Wall Total			1153		3418 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			38		492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1550	1.2	1826 Btuh
Ceiling Total			1550		1826 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	184.0 ft(p)	43.7	8033 Btuh
Floor Total			184		8033 Btuh
Zone Envelope Subtotal:					22815 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	11912	158.8	6433 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				29249 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

12/22/2005

	Subtotal Sensible	29249 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29249 Btuh

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

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/22/2005

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	30.0	0.0	30.0	35	88	2568 Btuh
2	2, Clear, 0.87, None,N,N	W	10.5f	8ft.	20.0	20.0	0.0	35	88	701 Btuh
3	2, Clear, 0.87, None,N,N	W	10.5f	8ft.	40.0	40.0	0.0	35	88	1402 Btuh
4	2, Clear, 0.87, None,N,N	N	9.5ft	8ft.	60.0	0.0	60.0	35	35	2103 Btuh
5	2, Clear, 0.87, None,N,N	NW	12.5f	8ft.	10.0	0.0	10.0	35	88	681 Btuh
6	2, Clear, 0.87, None,N,N	NE	12.5f	8ft.	10.0	0.0	10.0	35	88	661 Btuh
7	2, Clear, 0.87, None,N,N	E	9.5ft	8ft.	30.0	29.3	0.7	35	88	1086 Btuh
8	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	36.0	0.0	36.0	35	88	3082 Btuh
9	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	35	88	1284 Btuh
10	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	10.0	10.0	0.0	35	40	351 Btuh
11	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	4.0	0.0	4.0	35	88	342 Btuh
12	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	16.0	16.0	0.0	35	40	561 Btuh
Excursion										1694 Btuh
Window Total					281 (sqft)					16497 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Frame - Wood - Ext		19.0/0.08		867.0			2.0		1769 Btuh
2	Frame - Wood - Adj		13.0/0.09		286.0			2.1		609 Btuh
Wall Total					1153 (sqft)					2378 Btuh
Doors	Type				Area (sqft)			HTM		Load
1	Insulated - Adjacent				18.0			12.3		220 Btuh
2	Insulated - Exterior				20.0			12.3		245 Btuh
Door Total					38 (sqft)					466 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/DarkShingle		30.0		1550.0			1.9		2912 Btuh
Ceiling Total					1550 (sqft)					2912 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Slab On Grade		0.0		184 (ft(p))			0.0		0 Btuh
Floor Total					184.0 (sqft)					0 Btuh
Zone Envelope Subtotal:										22253 Btuh
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load
	SensibleNatural		0.70		11912			139.0		3651 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			0		X 230 +			2400		2400 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
Sensible Zone Load										28304 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

12/22/2005

Whole House Totals for Cooling	Sensible Envelope Load All Zones	28304 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	28304 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	28304 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5079 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5079 Btuh
	TOTAL GAIN	33383 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Omt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/22/2005

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	30.0	0.0	30.0	35	88	2568	Btuh	
2	2, Clear, 0.87, None,N,N	W	10.5f	8ft.	20.0	20.0	0.0	35	88	701	Btuh	
3	2, Clear, 0.87, None,N,N	W	10.5f	8ft.	40.0	40.0	0.0	35	88	1402	Btuh	
4	2, Clear, 0.87, None,N,N	N	9.5ft	8ft.	60.0	0.0	60.0	35	35	2103	Btuh	
5	2, Clear, 0.87, None,N,N	NW	12.5f	8ft.	10.0	0.0	10.0	35	88	661	Btuh	
6	2, Clear, 0.87, None,N,N	NE	12.5f	8ft.	10.0	0.0	10.0	35	88	661	Btuh	
7	2, Clear, 0.87, None,N,N	E	9.5ft	8ft.	30.0	29.3	0.7	35	88	1088	Btuh	
8	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	36.0	0.0	36.0	35	88	3082	Btuh	
9	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	35	88	1284	Btuh	
10	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	10.0	10.0	0.0	35	40	351	Btuh	
11	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	4.0	0.0	4.0	35	88	342	Btuh	
12	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	16.0	16.0	0.0	35	40	561	Btuh	
	Excursion									1694	Btuh	
	Window Total				281 (sqft)					16497 Btuh		
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext		19.0/0.08		867.0			2.0		1769 Btuh		
2	Frame - Wood - Adj		13.0/0.09		286.0			2.1		609 Btuh		
	Wall Total				1153 (sqft)					2378 Btuh		
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Adjacent				18.0			12.3		220 Btuh		
2	Insulated - Exterior				20.0			12.3		245 Btuh		
	Door Total				38 (sqft)					466 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle		30.0		1550.0			1.9		2912 Btuh		
	Ceiling Total				1550 (sqft)					2912 Btuh		
Floors	Type		R-Value		Size			HTM		Load		
1	Slab On Grade		0.0		184 (ft(p))			0.0		0 Btuh		
	Floor Total				184.0 (sqft)					0 Btuh		
			Zone Envelope Subtotal:								22253 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural		0.70		11912			139.0		3651 Btuh		
Internal gain			Occupants		Btuh/occupant			Appliance		Load		
			0		X 230 +			2400		2400 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh	
			Sensible Zone Load								28304 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Louise Mclean
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

12/22/2005

Whole House Totals for Cooling	Sensible Envelope Load All Zones	28304 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	28304 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	28304 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5079 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5079 Btuh
	TOTAL GAIN	33383 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Louise Mclean
Anderson Road
Lake City, FL 32025-

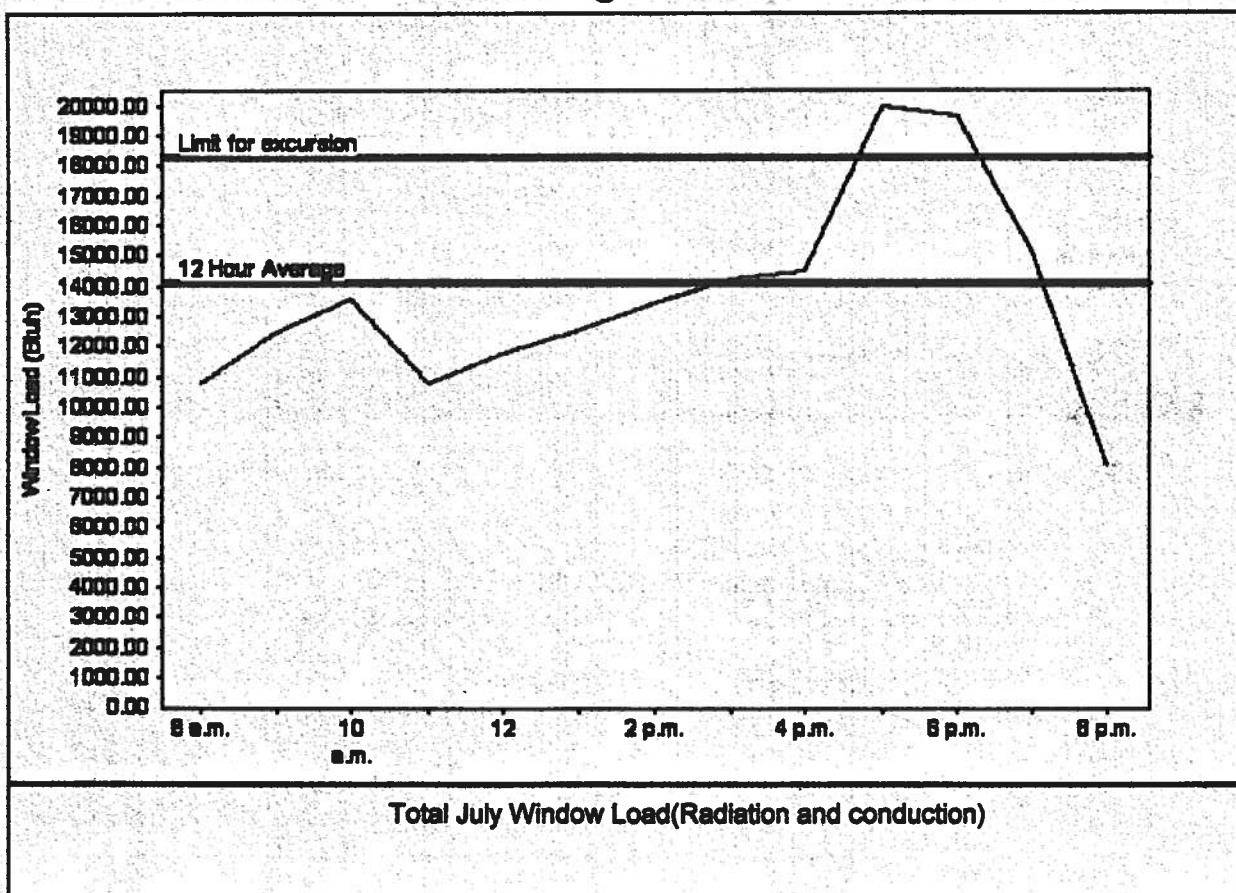
Project Title:
Isaac Construction - Mclean Res.

Code Only
Professional Version
Climate: North

12/22/2005

Summer design temperature	99 F	Average window load for July	14091 Btu
Summer setpoint	75 F	Peak window load for July	20012 Btu
Summer temperature difference	24 F	Excursion limit(130% of Ave.)	18318 Btu
Latitude	29 North	Window excursion (July)	1694 Btu/h

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

EnergyGauge® FLRCPB v4.1



EFFECTIVE MARCH 1, 2002

Applicant	Plans Examiner	
☒	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	<u>Site Plan including:</u> - Dimensions of lot - Dimensions of building set backs - Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. - Provide a full legal description of property.
☒	☐	<u>Wind-load Engineering Summary, calculations and any details required</u> - Plans or specifications must state compliance with FBC Section 1606 - The following information must be shown as per section 1606.1.7 FBC - Basic wind speed (MPH) - Wind importance factor (I) and building category - Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated - The applicable internal pressure coefficient - Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☒	☐	<u>Elevations including:</u> - All sides - Roof pitch - Overhang dimensions and detail with attic ventilation - Location, size and height above roof of chimneys - Location and size of skylights - Building height - Number of stories

- ☒ ☐
- ☒ ☐
- ☒ ☐

- ☒ ☐ gas

- ☐ ☐

- ☒ ☐

- ☒ ☐

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- ☐ ☐

- ☐ ☐

Floor Plan including:

- a) Rooms labeled and dimensioned
- b) Shear walls
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) Must show and identify accessibility requirements (accessable bathroom)

Foundation Plan including:

- a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling
- d) Location of any vertical steel

Roof System:

- a) Truss package including:
 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
 1. Rafter size, species and spacing
 2. Attachment to wall and uplift
 3. Ridge beam sized and valley framing and support details
 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

- a) Masonry wall
 1. All materials making up wall
 2. Block size and mortar type with size and spacing of reinforcement
 3. Lintel, tie-beam sizes and reinforcement
 4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
 7. Fire resistant construction (if required)
 8. Fireproofing requirements
 9. Shoe type of termite treatment (termicide or alternative method)
 10. Slab on grade
 - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
 11. Indicate where pressure treated wood will be placed
 12. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiteicide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

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

Floor Framing System:

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

Plumbing Fixture layout

Electrical layout including:

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

HVAC information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

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

06-81
PREPARED BY:
Charles Hill
Robertson & Associates, P.C.
10333 Richmond Avenue, Suite 550
Houston, TX 77042

AFTER RECORDED RETURN TO:

Bank of America, N.A.
1201 Main Street, 11th Floor
Dallas, Texas 75202

Inst:2006004737 Date:02/27/2006 Time:16:12
DC, P. DeWitt Cason, Columbia County B:1075 P:1030

NOTICE OF COMMENCEMENT

Permit No. _____

Tax Folio No. _____

State of Florida
County of Columbia

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

1. Legal description of property (include street address, if available)
" Anderson Road
Lake City, FL 32025

SEE EXHIBIT 'A' LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART
HEREOF FOR ALL PURPOSES

2. General description of improvement(s)

Construction of house

3. Owner information

Name: Louise A. McLean, a single person
Address: 6 Braddock Bluff Drive Unit #1655
Hilton Head Island, SC 29928

4. Contractor information

Name: Isaac Construction, LLC
Address: Route 9, Box 648 Lake City, FL 32024

Phone: _____

5. Surety

Name: _____
Address: _____

29164

Phone #: _____ Fax #: _____ Amt. of bond: _____

6. Lender
Name: Bank of America, N.A.
Address: 1201 Main Street, 11th Floor, Dallas, Texas 75202
Phone #: 214-743-8444

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

8. In addition to himself, Owner designates _____
of _____ to receive a copy of the Lender's Notice as provided
in Section 713.13(1)(b), Florida Statutes.
Phone #: _____
Fax #: _____

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

Louise G. McLean
Signature of Owner

Sworn to and subscribed before me this 22 day of Feb, 2006.

My commission expires: 1-26-09

[Signature]
Notary Public

Inst:2006004737 Date:02/27/2006 Time:14:12
DC,P.DeWitt Cason,Columbia County B:1075 P:1039

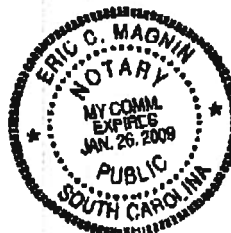


EXHIBIT "A"

Commence at the SE corner of Section 14, Township 4 South, Range 15 East, Columbia County, Florida, and run S 89 degrees 19'33" West along the South line thereof, 246.61 feet to the Point of Beginning; thence continue S 89 degrees 19'33" West, still along said South line 246.74 feet; thence N 00 degrees 01'30" West 441.89 feet; thence N 89 degrees 15'46" East, 246.74 feet; thence S 00 degrees 01'30" East 442.16 feet to the Point of Beginning.

Inst:2006004737 Date:02/27/2006 Time:14:12

DC, P. DeWitt Cason, Columbia County B:1075 P:1040

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

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

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

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

24164

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109476 Company Phone No. 386-755-3511
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: Isaac Zandt Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 1673 S.W. Anderson St.
Lake City, FL
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside 12 Inside 12 Type of Fill Dir

Section 4: Treatment Information

Date(s) of Treatment(s) 3-16-06
Brand Name of Product(s) Used Extermin-X-2
EPA Registration No. 53443-92
Approximate Final Mix Solution % 0.25%
Approximate Size of Treatment Area: Sq. ft. 2442 Linear ft. 234 Linear ft. of Masonry Voids 234
Approximate Total Gallons of Solution Applied 464.05
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No

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

Attachments (List) _____

Comments _____

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

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

Authorized Signature [Signature] Date 3-16-06

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

Form NPCA-99-B may still be used

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

SHW: WEEgil
**Columbia County Building Department
Culvert Waiver**

**Culvert Waiver No.
000000984**

DATE: 02/24/2006

BUILDING PERMIT NO. 24164

APPLICANT LINDA RODER PHONE 752.2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER LOUISE A. MCLEAN PHONE 719.7143

ADDRESS 1673 SW ANDERSON STREET LAKE CITY FL 32024

CONTRACTOR ISAAC BRATKOVICH PHONE 719.7143

LOCATION OF PROPERTY 90-W TO C-252, TL TO GODBOLD RD, TL ON TOMPKINS, TL TO MARCIS TERRACE, TR
STOP @ ANDERSON AND THE LOT IS ON THE R., (2ND PLACE DOWN)

SUBDIVISION/LOT/BLOCK/PHASE/UNIT _____

PARCEL ID # 14-4S-15-00370-007

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA
COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: *Linda Roder*

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE
CULVERT WAIVER IS:

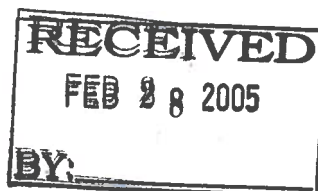
✓ APPROVED _____ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: _____

SIGNED: *Rory Little* DATE: 3/1/06

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

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



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:1SU0487-20120150747

Truss Fabricator: Anderson Truss Company
Job Identification: 6-008-ISAAC CONSTRUCTION - MCLEAN
Truss Count: 38
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.22.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: BRCLBSUB-A11015EE-GBLLETIN-TCFILLER-BCFILLER



Seal Date: 01/20/2006

-Truss Design Engineer-

Arthur P. Fisher

Florida License Number: 59687

1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	02724--A1		06020040	01/20/06
2	02725--A2		06020025	01/20/06
3	02726--A3		06020026	01/20/06
4	02727--A4		06020027	01/20/06
5	02728--A5		06020028	01/20/06
6	02729--A6		06020029	01/20/06
7	02730--A7		06020030	01/20/06
8	02731--B1		06020031	01/20/06
9	02732--B2		06020032	01/20/06
10	02733--B3		06020033	01/20/06
11	02734--B4		06020041	01/20/06
12	02735--B5		06020042	01/20/06
13	02736--B6		06020043	01/20/06
14	02737--B7		06020044	01/20/06
15	02738--B8-GE		06020062	01/20/06
16	02739--C1-GE		06020058	01/20/06
17	02740--C2		06020034	01/20/06
18	02741--C3		06020045	01/20/06
19	02742--C4		06020046	01/20/06
20	02743--C5		06020047	01/20/06
21	02744--D1-GE		06020048	01/20/06
22	02745--FGS		06020059	01/20/06
23	02746--HJ7		06020049	01/20/06
24	02747--EJ7		06020050	01/20/06
25	02748--J5		06020051	01/20/06
26	02749--J3		06020035	01/20/06
27	02750--J1		06020052	01/20/06
28	02751--R1		06020053	01/20/06
29	02752--R2		06020054	01/20/06
30	02753--R3		06020036	01/20/06
31	02754--R4		06020055	01/20/06
32	02755--R5		06020056	01/20/06
33	02756--S1G		06020060	01/20/06
34	02757--S2		06020037	01/20/06
35	02758--K1		06020057	01/20/06
36	02759--K2		06020038	01/20/06

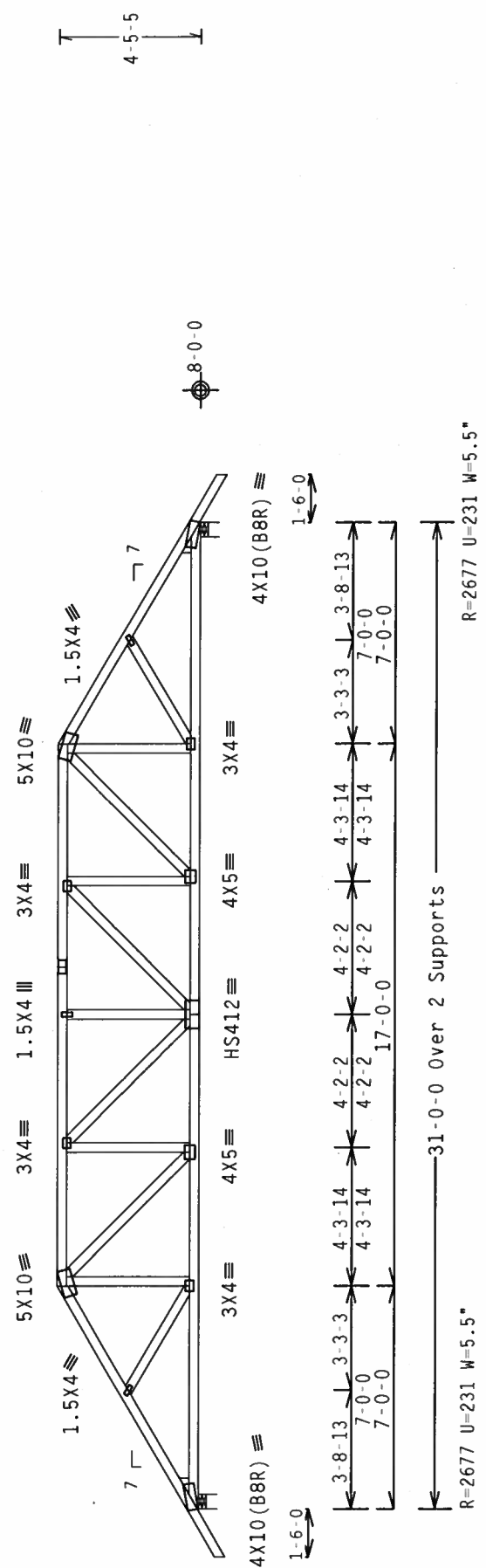
#	Ref	Description	Drawing#	Date
37	02760--K3		06020039	01/20/06
38	02761--K4G		06020061	01/20/06



Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

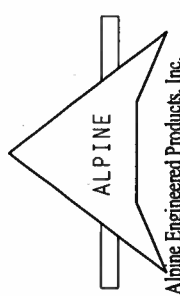
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
#1 hip supports 7-0-0 jacks with no webs.

3X5



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave
Cq/RT=1.00(1.25)/10(0) 7-22-11
Scale =.1875"/Ft.



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

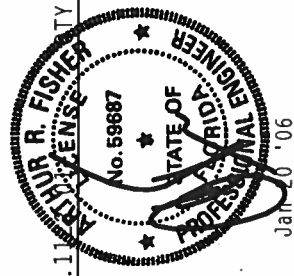
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W.H/5/X) ASTM A653 GRADE 40/60 (W. K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. (1) SHALL BE PER ANNEAL AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TY:1 FL/-/4/-/R/-

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

REF R487-- 2724
DATE 01/20/06
DRW HCUSR487 06020040
HC-ENG DF/AF
SEQN- 77518
JREF- 1SU0487_Z01



FL Certificate of Authorization # 567	SPACING	24.0"	JREF- 1SU0487_Z01
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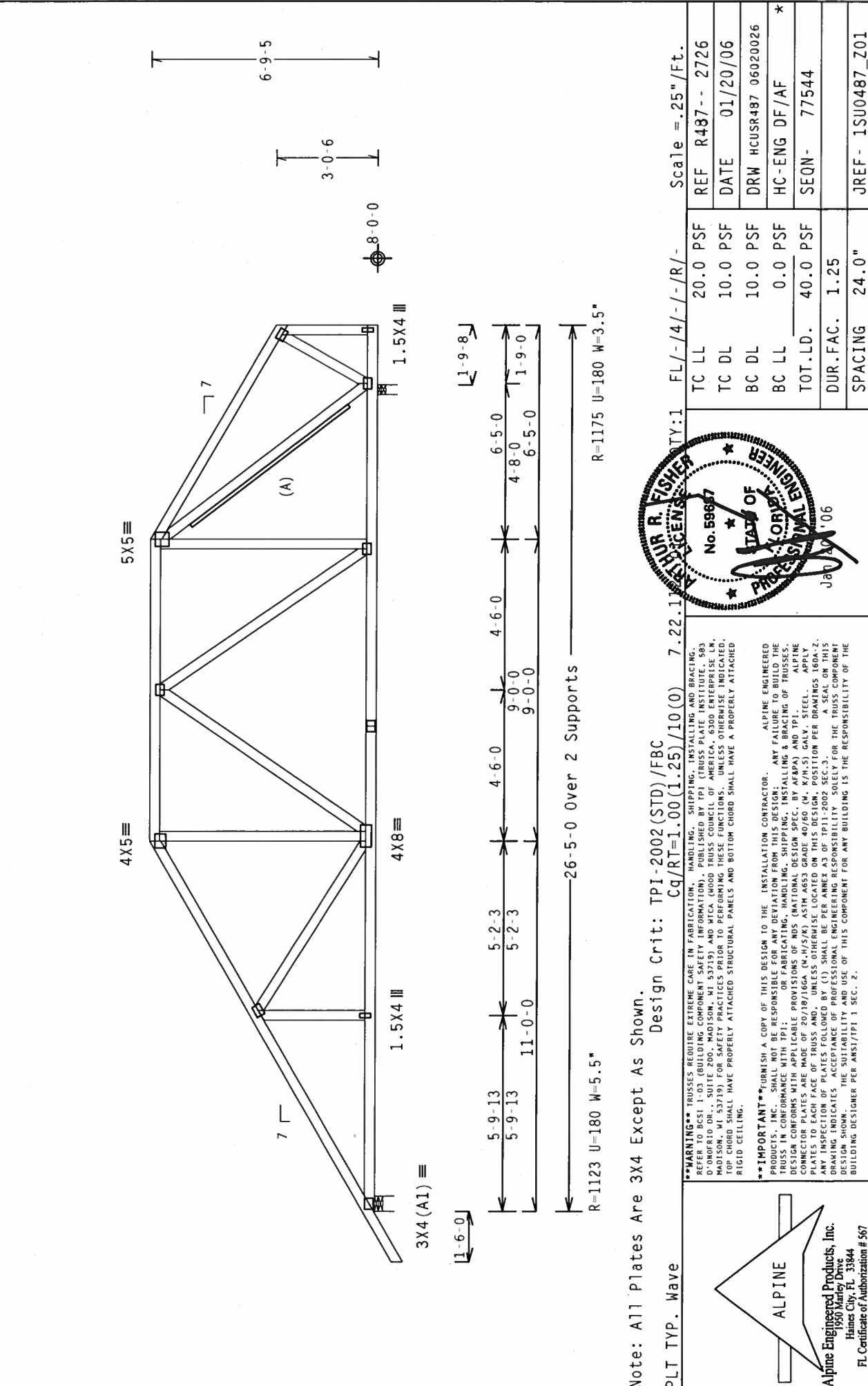
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(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.

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

Right end vertical not exposed to wind pressure.

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



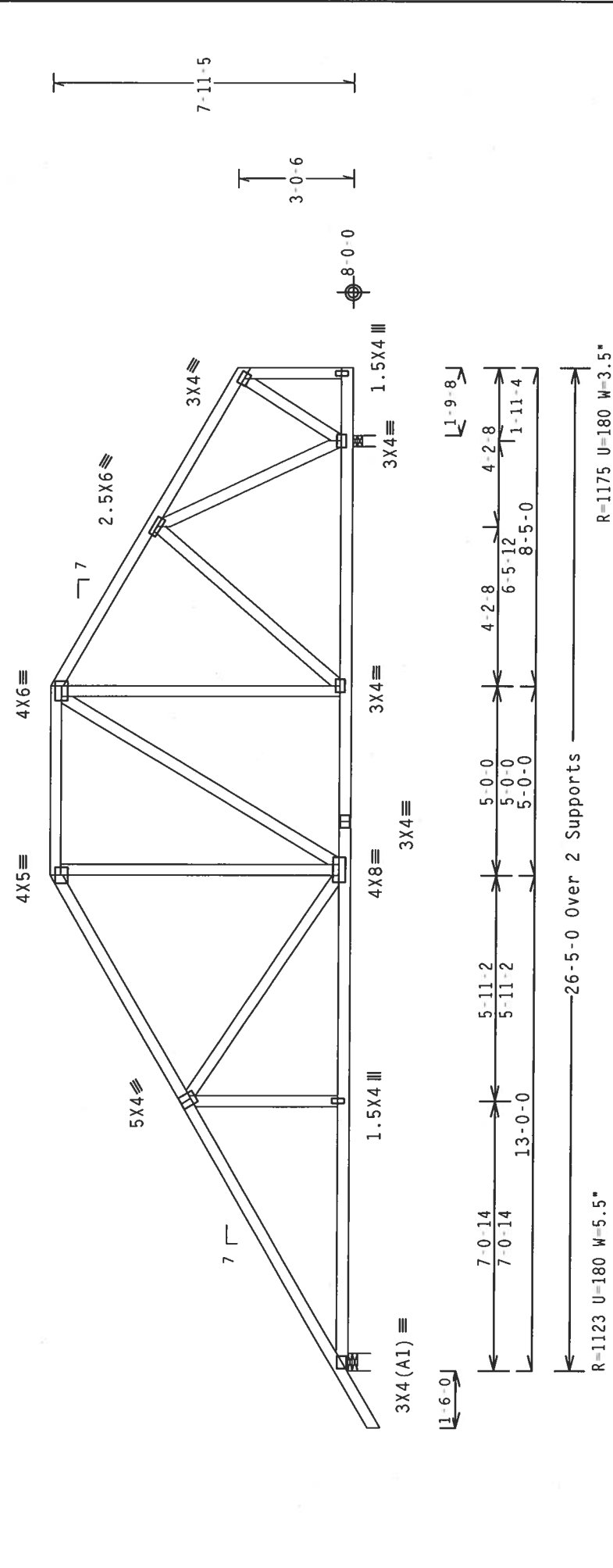
Note: All Plates Are 3x4 Except As Shown.		Design Crit: TPI-2002(STD)/FBC		Cq/RT=1.00(1.25)/10(0)		7.22.1		Scale = .25" / Ft.	
PLT TYP. Wave		FL / - / 4 / - / - / R / -		TY: 1		TC LL		20.0 PSF	
						TC DL		10.0 PSF	
						BC DL		10.0 PSF	
						BC LL		0.0 PSF	
						TOT. LD.		40.0 PSF	
						DUR. FAC.		1.25	
						SPACING		24.0"	
						REF		R487 -- 2726	
						DATE		01/20/06	
						DRW		HCUSR487 06020026	
						HC-ENG		DF/AF	
						SEQN		77544	
						JREF		1SU0487_Z01	

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

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

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

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

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

Scale = .25" / Ft.

TC LL	20.0 PSF	REF	R487--	2727
TC DL	10.0 PSF	DATE	01/20/06	
BC DL	10.0 PSF	DRW	HCUSR487	06020027
BC LL	0.0 PSF	HC-ENG	DF/AF	*
TOT.LD.	40.0 PSF	SEQN-	77558	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU0487_Z01	

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

THURBY R. FISHER
No. 59887
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jan 20 '06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (POST TENSIONING SYSTEMS) AND BC52 (TRUSS SYSTEMS) FOR ADDITIONAL INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 593 D'ORFORD DR., SUITE 200, MADISON, WI 53719. ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (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 DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNING AND THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (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 DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNING AND THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

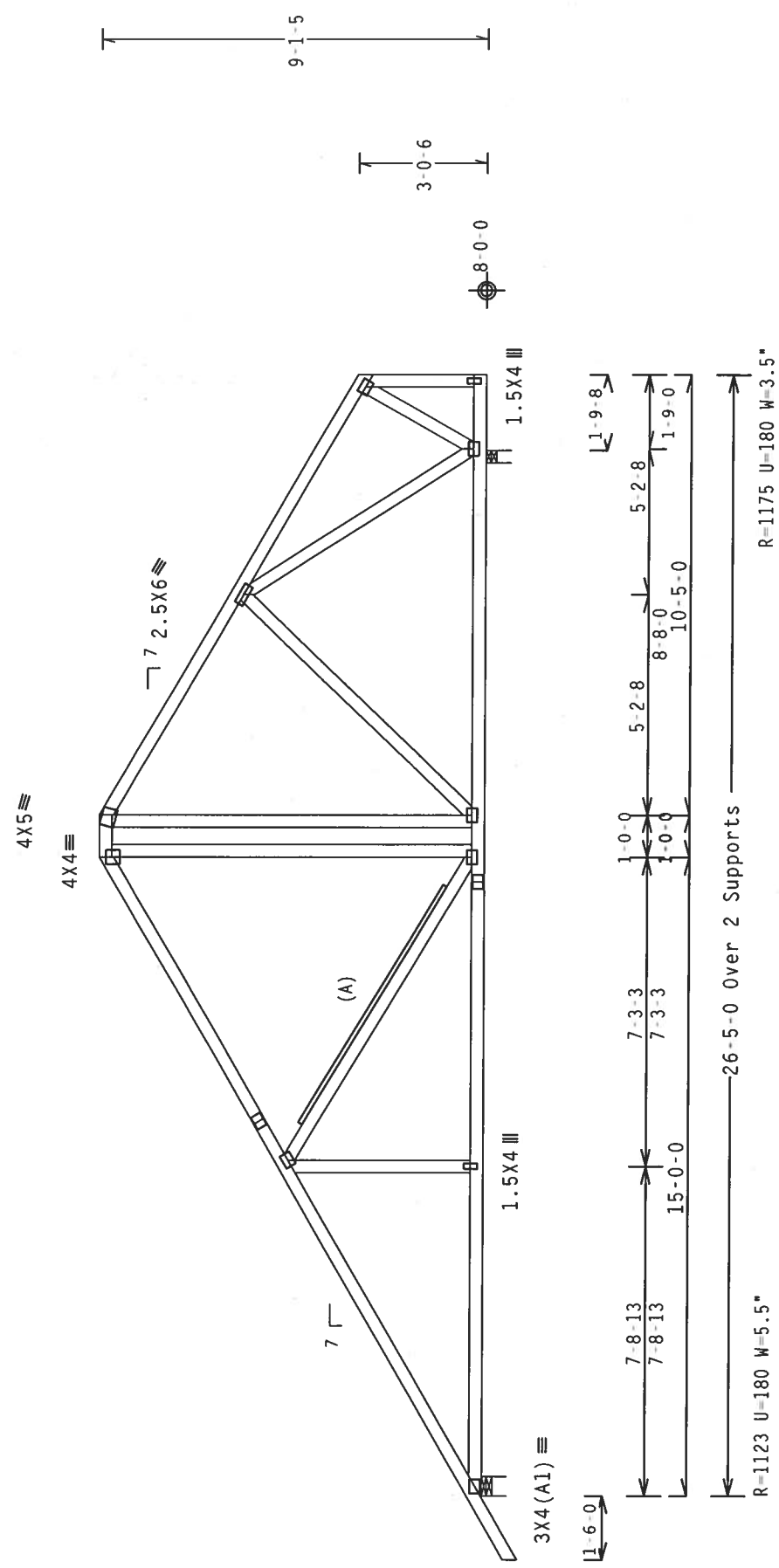
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

(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.

Right end vertical not exposed to wind pressure.

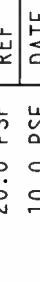
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Design of: 1.25" (31.75) / 10 (0) 7.22.1 FL / - 4 / - / R -
 Cq/RT=1.00 (1.25) 10 (0) 7.22.1 FL / - 4 / - / R -
 PLT TYP. Wave 7.22.1 FL / - 4 / - / R -
 Scale = .25" / Ft.



Alpine Engineered Products, Inc.
 1950 Mayo Drive
 Gaines City, FL 33844

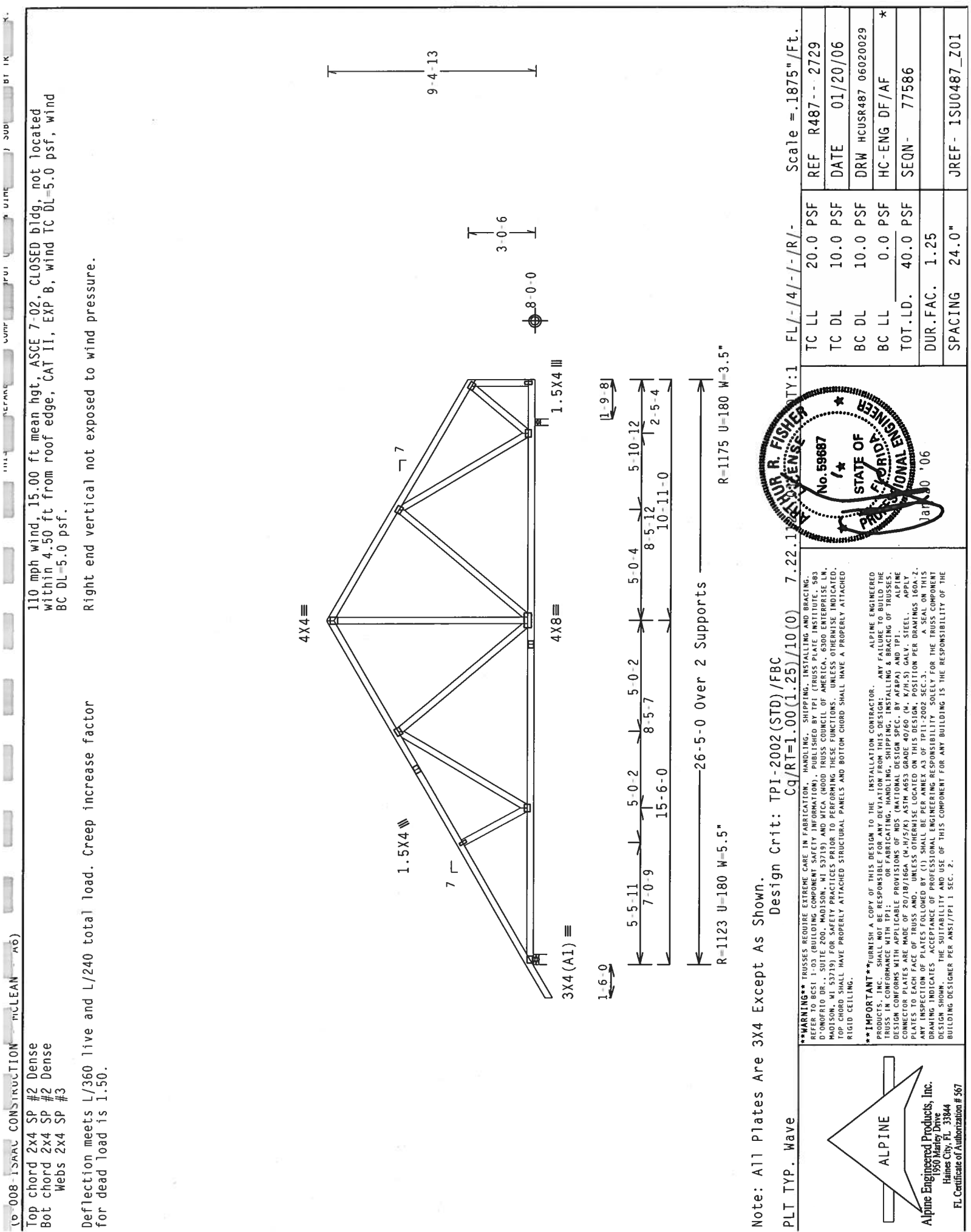
FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE) 13 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND MITCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TP1. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (IN. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



TC LL	20.0	PSF	REF R487 --	2728
TC DL	10.0	PSF	DATE	01/20/06
BC DL	10.0	PSF	DRW HCUSR487	06020028
BC LL	0.0	PSF	HC-ENG DF /AF	*
TOT.LD.	40.0	PSF	SEQN-	77571
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1SU0487_Z01



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

Right end vertical not exposed to wind pressure.

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

Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Scale = .1875"/Ft.

REF R487-2729

DATE 01/20/06

DRW HCUSR487 06020029

HC-ENG DF/AF

SEON-77586

DUR.FAC. 1.25

SPACING 24.0"

JREF-1SU0487_Z01

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

FL Certificate of Authorization # 567

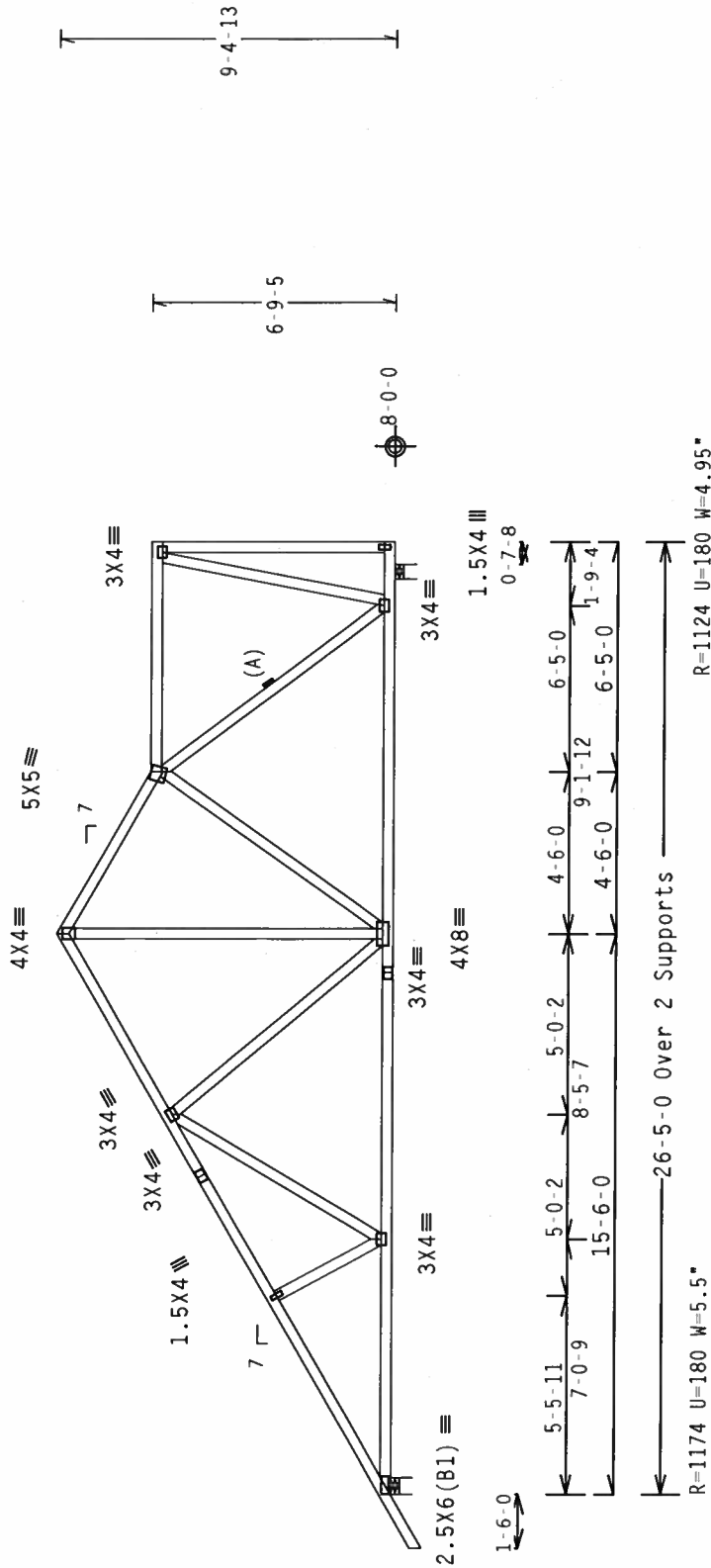
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

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

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

Right end vertical not exposed to wind pressure.



R=1174 U=180 W=5.5"

26'-5-0 Over 2 Supports

R=1124 U=180 W=4.95"

Design Crit: TPI-2002 (STD) / FBC

PLT TYP. Wave

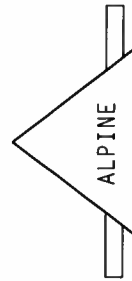
Cq/RT=1.00(1.25)/10(0) 7.22

FL/-4/-/R/-

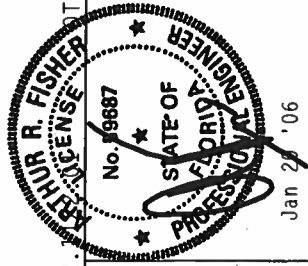
Scale = .1875"/Ft.

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 TRUSSES ARE MADE OF 20/18/16GA (W/H/2/K) ASTM A653 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY POINTS TO ELEVATIONS. TRUSSES LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



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--	2730
DATE	01/20/06	
DRW	HCUSR487	06020030
HC-ENG	DF/AF	*
SEQN	77603	
JREF	1SU0487_Z01	

[illegible]

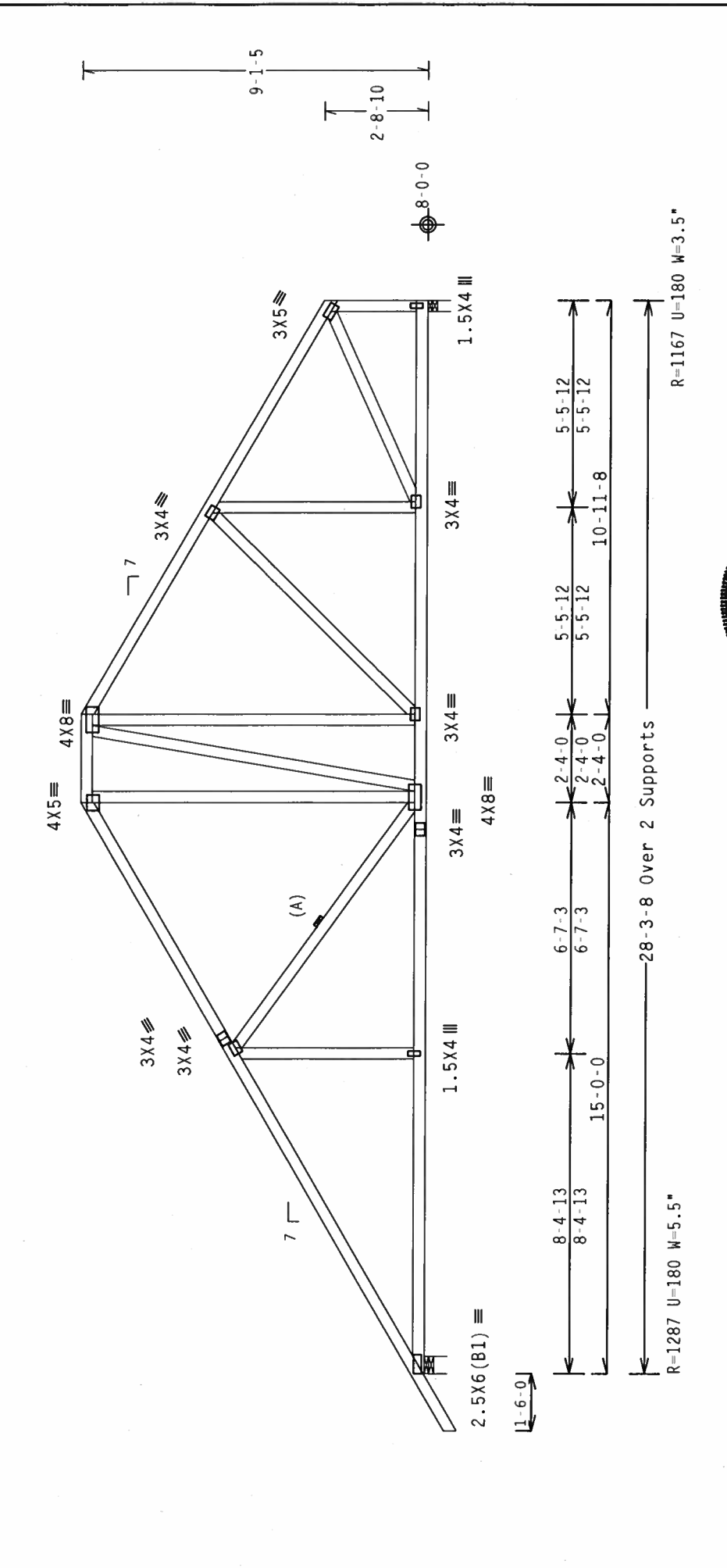
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

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

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

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

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

Scale = .25"/Ft.

TC LL	20.0 PSF	REF	R487 -- 2732
TC DL	10.0 PSF	DATE	01/20/06
BC DL	10.0 PSF	DRW	HCUSR487 06020032
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN-	77627
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SU0487_Z01

ALPINE

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

PROFESSIONAL ENGINEER

NO. 59887

STATE OF FLORIDA

Jan 20 '06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 D'ORFORD DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING 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 2010T1060A (4-H/SX) ASTM A553 GRADE 40/60 (N. K/H.S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI. UNLESS OTHERWISE INDICATED, POSITION PER DRAWINGS 100A-Z. 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.

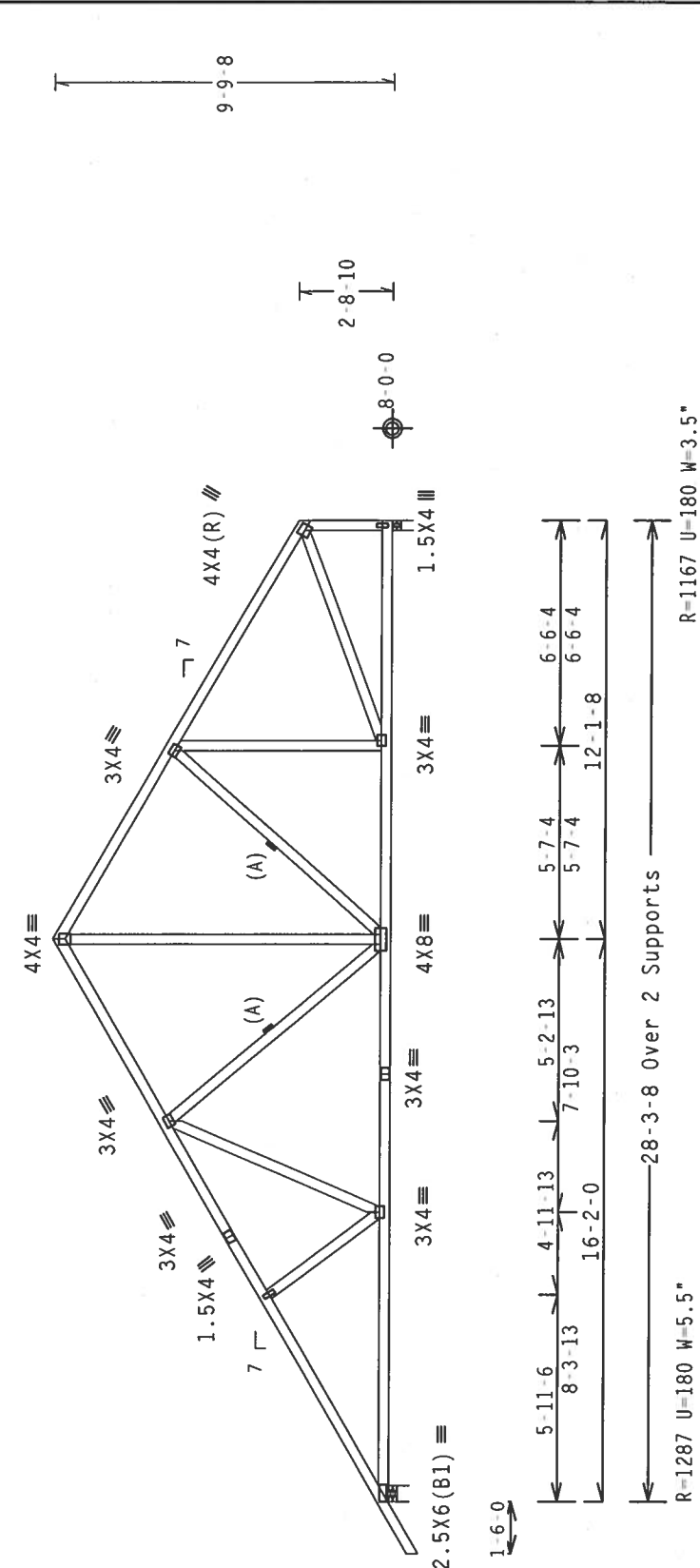
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

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

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



Design Crit: TPI-2002(STD)/FBC
Ca/RT=1.00(1.25)/10(0)
7.22 100%
R. FISHER
TENSILE
TY. 4
EI / - 4 / - / - 8 / -
Scale = 1875" / Ft

****WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.**

REF TO 0651 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DOWD AVE, SUITE 100, WILSONVILLE, OR 97150) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RUFED, CEILING.

TC LL 20.0 PSF

TC DL 10.0 PSF

No. 09887

REF R487 -- 2733

DATE 01/20/06

ALPINE

Alpine Engineered Products, Inc.

10000
Haines City, FL 33884

PT. Certificate of Authorization # 567

DRW HCUR487 06020033

HC-ENG DF/AF

SEQN- 26127

JREF- 1SII0487 701

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

Jan 20 06

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 (NATLIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONDUCTS PLATES ARE MADE OF 2018/166A (4-H/5K7) ASTM A653 GRADE 40/60 (40 K/55) GALV. STEEL. ALL PLATES TO BE USED IN THIS TRUSS SHALL BE 1/2" THICK. ALL PLATES TO BE USED IN THIS TRUSS SHALL BE 1/2" THICK. ANY INSPECTION OF PLATES FOLLOWED BY (S) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

PROFESSIONAL ENGINEER

STATE OF FLORIDA

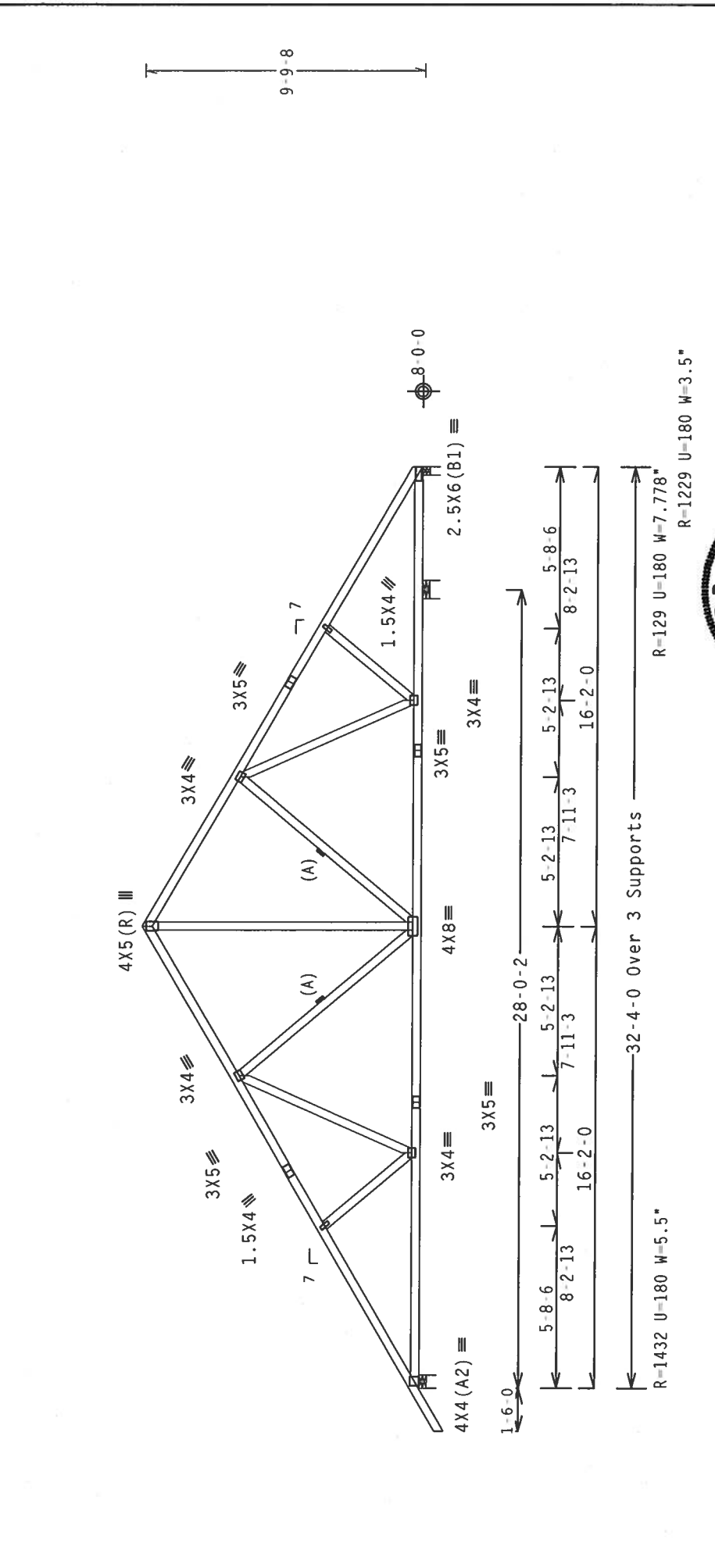
06020033

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

(A) Continuous lateral bracing equally spaced on member.

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

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



PLT TYP. Wave

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

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487 -- 2734
TC DL	10.0 PSF	DATE	01/20/06
BC DL	10.0 PSF	DRW	HCUSR487 06020041
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN-	77458
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SU0487_Z01

ALPINE

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

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 10000 MARLEY DRIVE, SUITE 200, MADISON, WI 53719, AND NCTA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2010/160A (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. CONNECTION PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN. THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

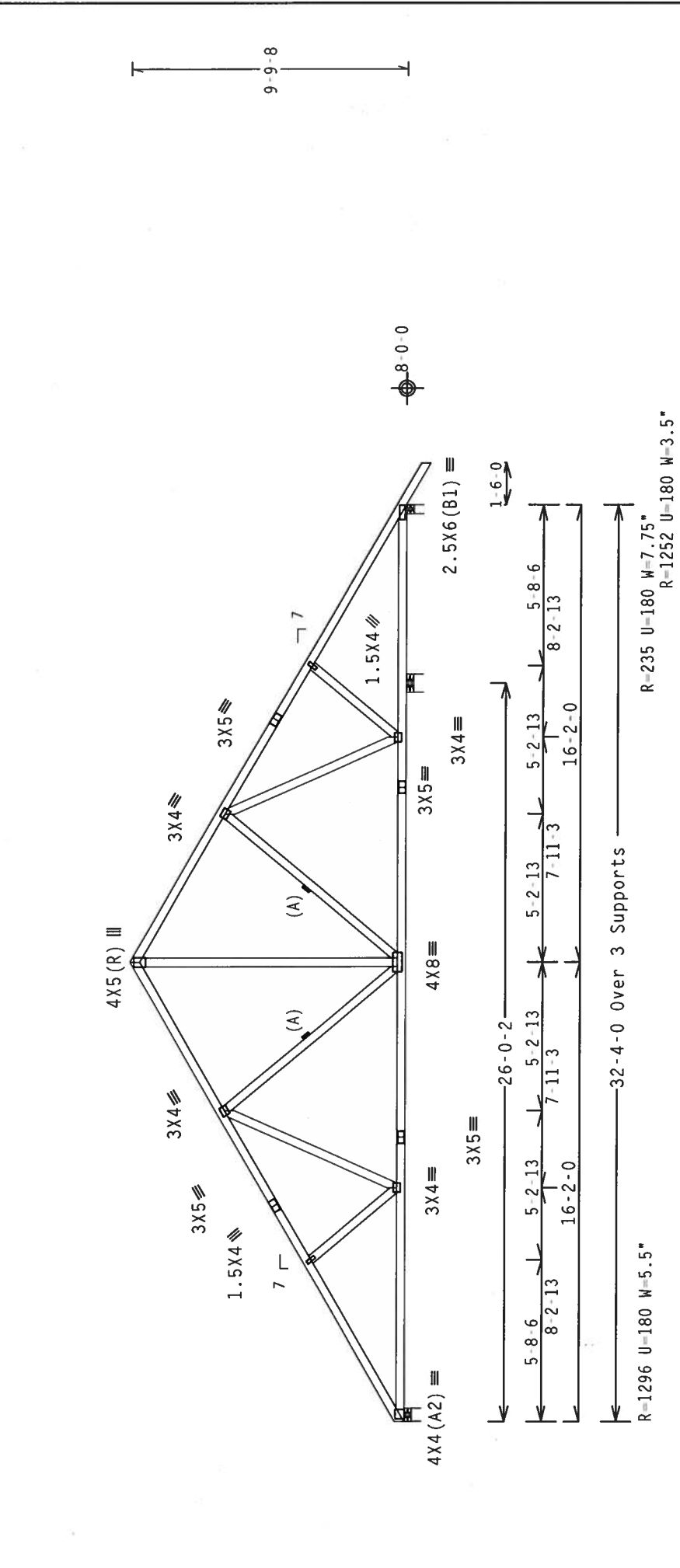
SEAL OF
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
No. 59687
R. FISHER
JAN 20 '06

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

(A) Continuous lateral bracing equally spaced on member.

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

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



PLT TYP. Wave

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

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	2735
TC DL	10.0 PSF	DATE	01/20/06	
BC DL	10.0 PSF	DRW	HCUSR487	06020042
BC LL	0.0 PSF	HC-ENG	DF/AF	
TOT.LD.	40.0 PSF	SEON-	77467	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	15U0487_Z01	

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 983 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/A) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. PLATES SHALL BE ANCHORED TO THE TRUSS CHORDS WITH 1/2" DIA. BOLTS PER TPI-2002 SEC.3.1. APPLY A SEAL ON THIS DESIGN SHOWN. ACCEPTANCE OF PROFESSIONAL ENGINEER REQUIRED FOR THE TRUSS COMPONENT. BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

THUR R. FISHER
No. 59887
STATE OF FLORIDA
Professional Engineer
JUN 20 06

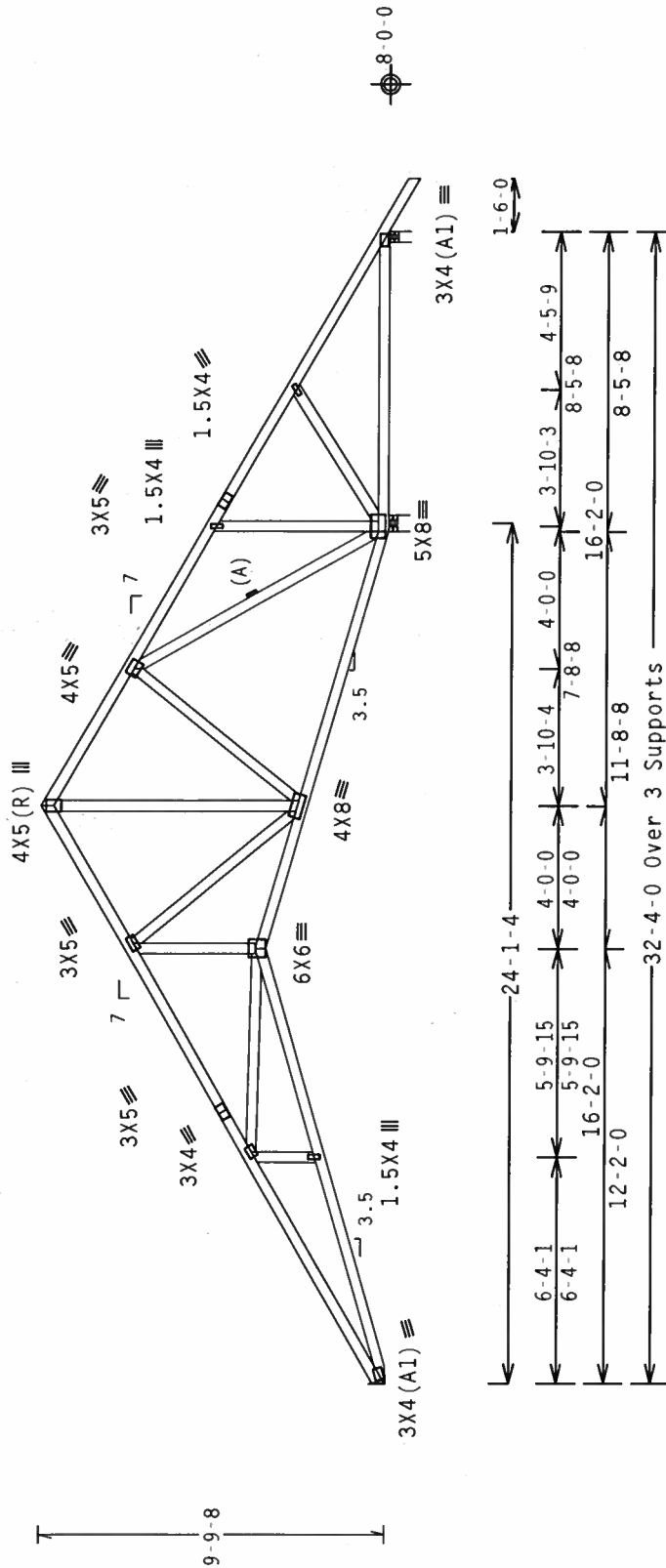
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

(A) Continuous lateral bracing equally spaced on member.

Shim all supports to solid bearing.

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



R=794 U=180

R=2156 U=180 W=5.5"

R=140 U=191 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

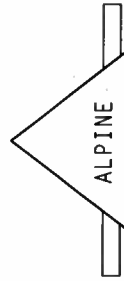
Cq/RT=1.00(1.25)/10(0)

7.22.1

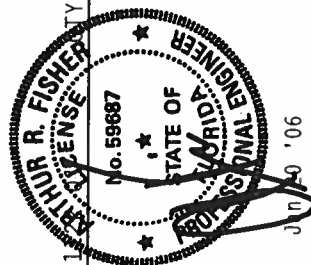
Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. IS NOT RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF TRUSSES FOLLOWED BY (1) SHALL BE PERFORMED ON THIS DESIGN. THE TRUSS COMPANY'S DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPANY'S 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
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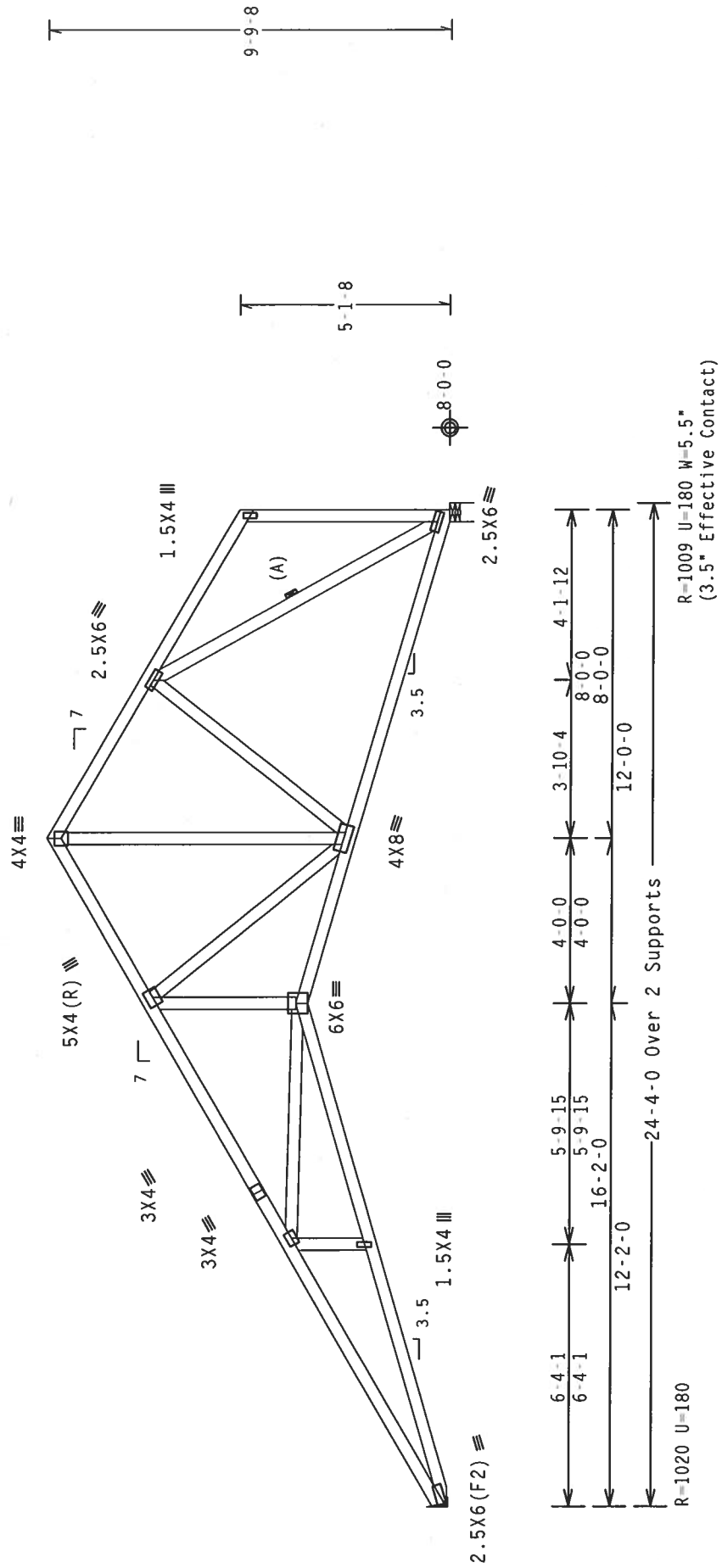


TC LL	20.0 PSF	REF	R487--	2736
TC DL	10.0 PSF	DATE	01/20/06	
BC DL	10.0 PSF	DRW	HCUSR487	06020043
BC LL	0.0 PSF	HC-ENG	DF/AF	
TOT.LD.	40.0 PSF	SEQN-	26108	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU0487_Z01	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



Scale = .25"/Ft.

TC LL	20.0 PSF	REF R487 - - 2737
TC DL	10.0 PSF	DATE 01/20/06
BC DL	10.0 PSF	DRW HCUR487 06020044
BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.	40.0 PSF	SEQN- 26115
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SU0487_Z01

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

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W8 2x4 SP #2 Dense:
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0
psf.

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

See DWGS A11015EE0405 & GBLLLETIN0405 for more requirements.

(A) Continuous lateral bracing equally spaced on member.

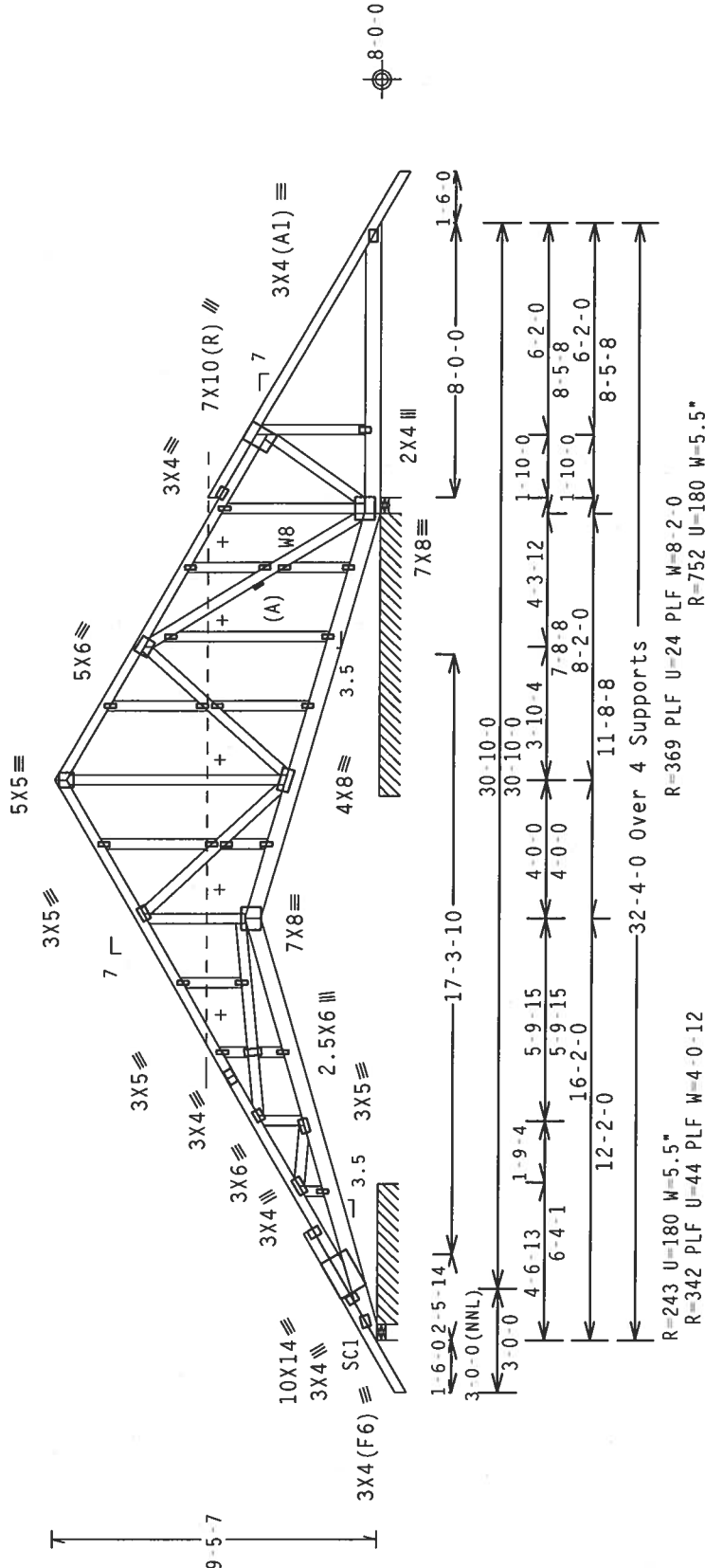
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Shim all supports to solid bearing.

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

+ LATERALLY BRACE FOR HORIZONTAL WIND LOADS.

BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.


$$=243 \quad U=180 \quad W=5.5''$$

R=342 PLF U=44 PLF W=4-0-12

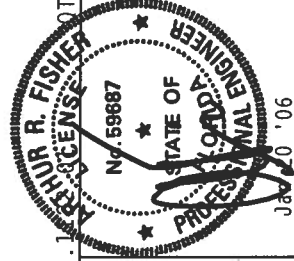
Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$ 7.22.14

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

Scale = 1875"/Ft



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. SEE 865103 (BUILDING COMPONENT SAFETY INFORMATION). TRUSSES SUPPLIED BY TPI (TRUSS PLATE INSTITUTE, 583 TROOPERS DR., P.O. BOX 14000, PUEBLO, CO 81008) OR TPI (TRUSS PLATE INSTITUTE, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMANCE. UNLESS OTHERWISE INDICATED, ALL TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC. BY AFPA) AND TP1. THESE TRUSSES ARE TO BE USED TO SUPPORT THE ROOF OF THE BUILDING. THE TRUSS SHALL BE MADE OF ALUMINUM PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A.3 OF TP11 2002 SEC.3.



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

Haines City, FL 33844
FL Certificate of Authorization # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B1 2x6 SP #2:
Webs 2x4 SP #3
Filler 2x4 SP #3
:Stack Chord SC1 2x4 SP #3:

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

See DWGS TCFILLER1103 and BCFILLER1103 for filler details.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

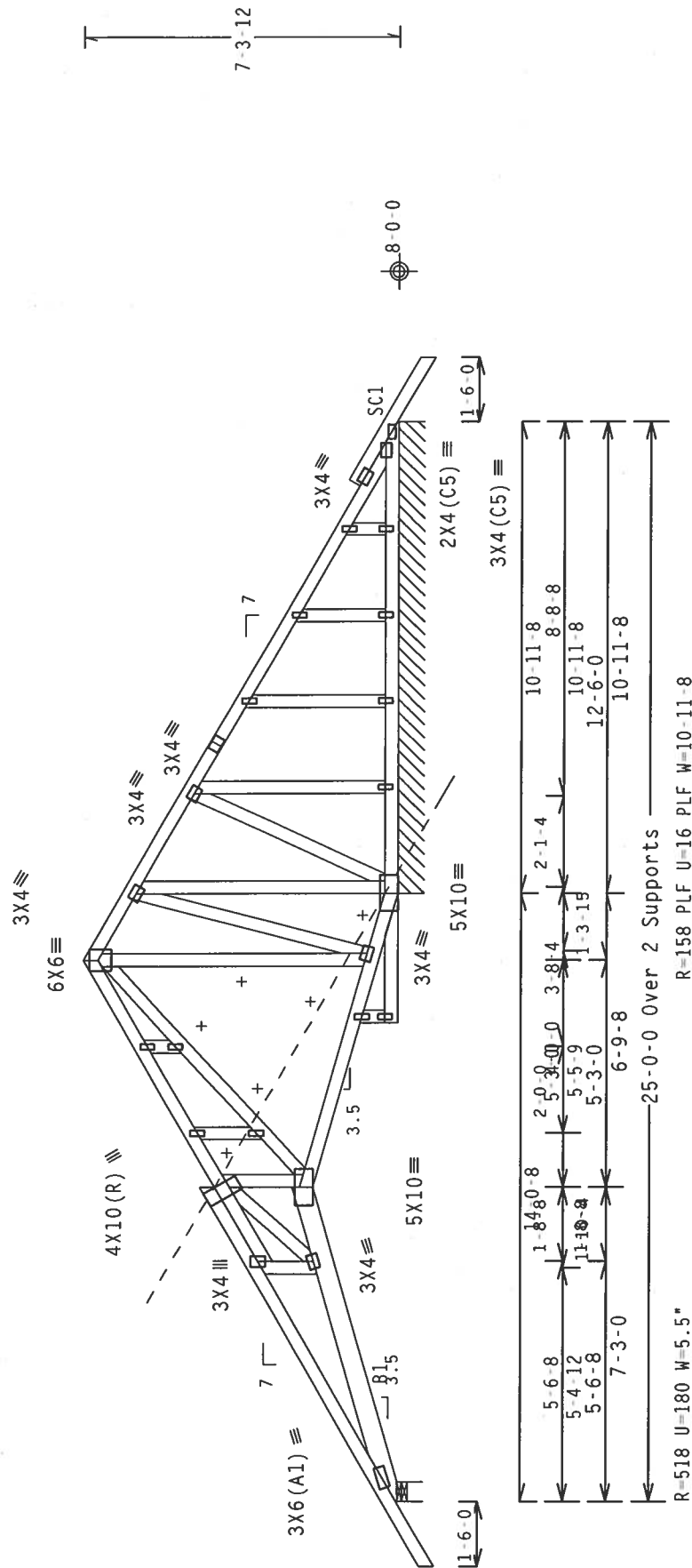
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

Gable end supports 8" max rake overhang.

Laterally brace BC at 24" OC in lieu of rigid ceiling. Laterally brace BC above filler at 24" OC.

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C., INCLUDING A LATERAL BRACE AT CHORD ENDS.

+ Laterally brace for horizontal wind loads.
Bracing system to be designed and furnished by others.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

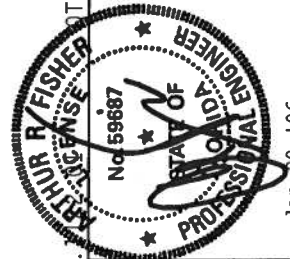
 $C_q/RT=1.00(1.25)/10(0) \quad 7.22.$

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

Scale = .25"/Ft.

WARNING: * TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TRUSS PLATE INSTITUTE, 100 D'ORFIO DR., SUITE 200, MADISON, WI 53719, AND WCA WOOD TRUSS CONCURRENCE OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO MACHINING THESE COMPONENTS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****--FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS & ARCHITECTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. CONSTRUCTION OF JOISTS (NAIL LOADS, DESIGN SPEC. BY AFAPA) AND TYPICAL CONNECTIONS ARE MADE UP OF PROVISIONS OF NDS (NAIL LOADS, DESIGN SPEC. BY AFAPA) AND TYPICAL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SECTION PER DRAWINGS 160A, 2. ANY INSPECTION OF PLATES FOLLOWS BY (1) SHALL BE PER ANNEX A3 OF TP11 2002, SEC. 3. A SEAL ON THE DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS PROJECT. THE REMAINING PORTION OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A11 1 SEC. 2.



Jan 20 '06

Haines City, FL 33844
FL Certificate of Authorization # 567

SPACING 24.0"

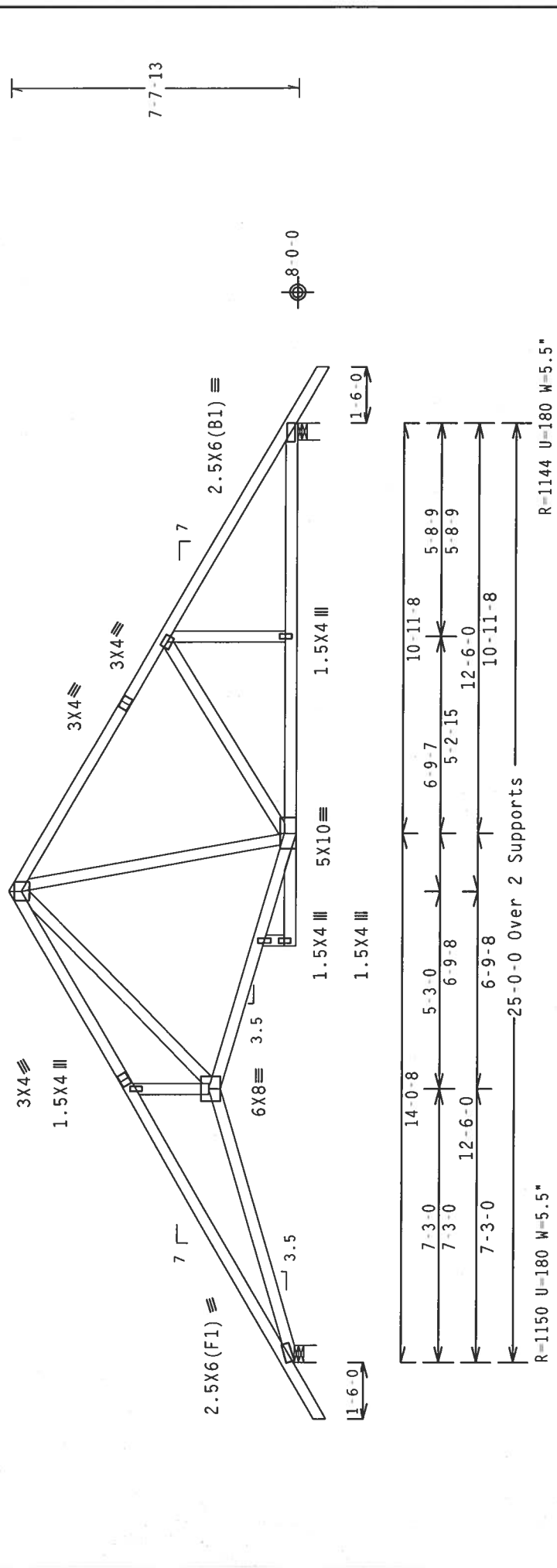
JREF- 1SU0487 Z01

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

Laterally brace 8C at 24" OC in lieu of rigid ceiling. Laterally brace BC above filler at 24" OC.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C., INCLUDING A LATERAL BRACE AT CHORD ENDS.

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

See DWGS TCFILLER1103 and BCFILLER1103 for filler details.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/(10.0) 7.22.1

Scale = .25" / Ft.

TC LL	20.0 PSF	REF	R487--	2740
TC DL	10.0 PSF	DATE	01/20/06	
BC DL	10.0 PSF	DRW	HCUSR487	06020034
BC LL	0.0 PSF	HC-ENG	DF/AF	*
TOT.L.D.	40.0 PSF	SEQN-	77485	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU0487_Z01	

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

PROFESSIONAL ENGINEER
R. FISHER
No. 59687
STATE OF FLORIDA
Professional Engineer
Jan 20 '06

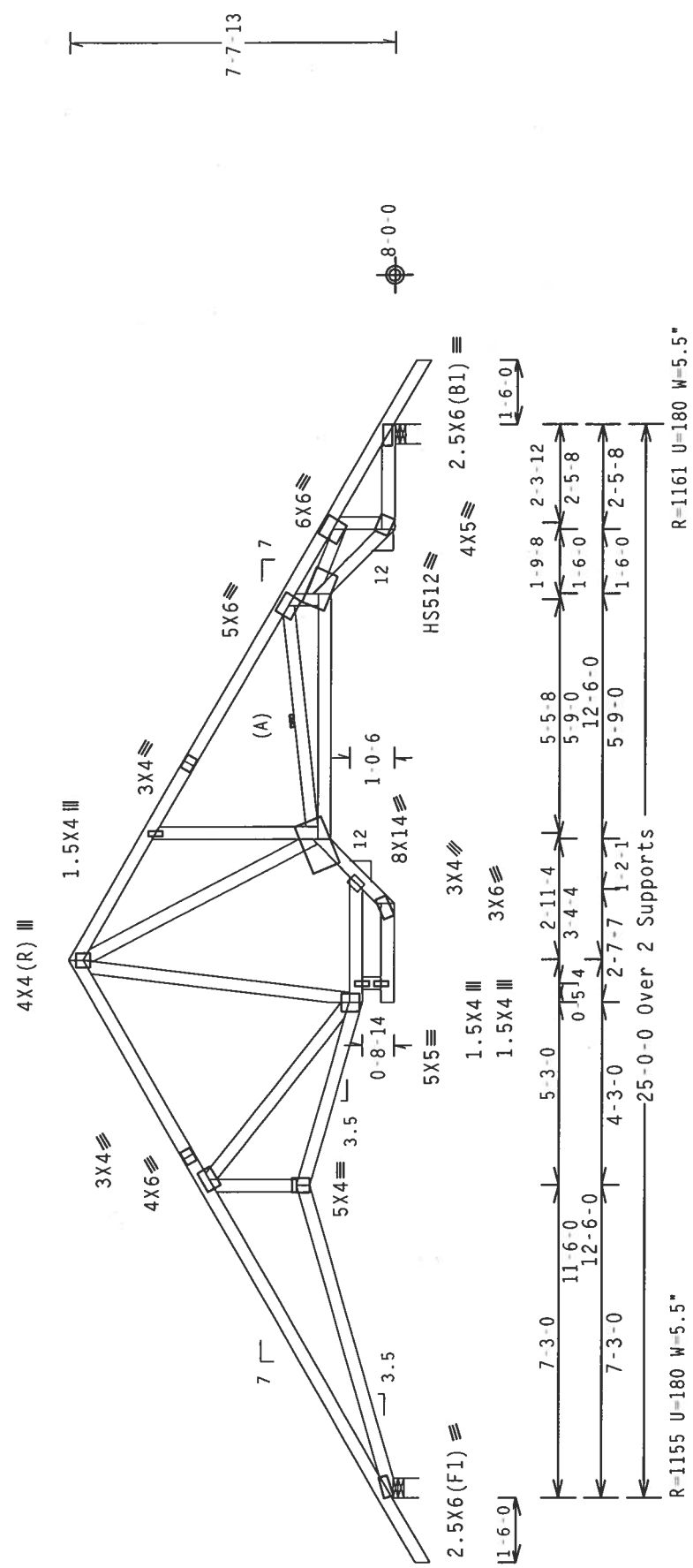
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 1000 PL. 903 O'DONOHIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BL., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE 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 AEP&J) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS SEAL INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN THEREON. USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

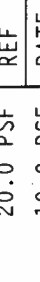
top chord 2x4 SP #2 Dense	110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
bot chord 2x4 SP #2 Dense	
webs 2x4 SP #3	

calculated horizontal deflection is 0.21" due to live load and 0.34" due to dead load.

ATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C.,
CLUDING A LATERAL BRACE AT CHORD ENDS.



ULT TYP. 20 Gauge HS, Wave Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11 R. FISHER
FL/-4/-R/- Scale =.25"/Ft.



Alpine Engineering Products, Inc.
 1950 Harley Drive
 Haines City, FL 33844

ET Certificate of Authorization # 567

Scale = 2.5" = 1'-0"

REF	R487 --	2741
DATE	01/20/06	
DRW	HCUR487	06020045
HC-ENG	DF/AF	
SEQN-	77501	
TOT.LD.	40.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE, 593 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN:

DESIGN IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. TRUSSES CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TP1. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED 40/60 (M, K/H-S) GALV. STEEL. APPLY AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TP1-2002 SEC.3. A SEAL ON THIS DRAMING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

STATE OF FLORIDA

PROFESSIONAL ENGINEER

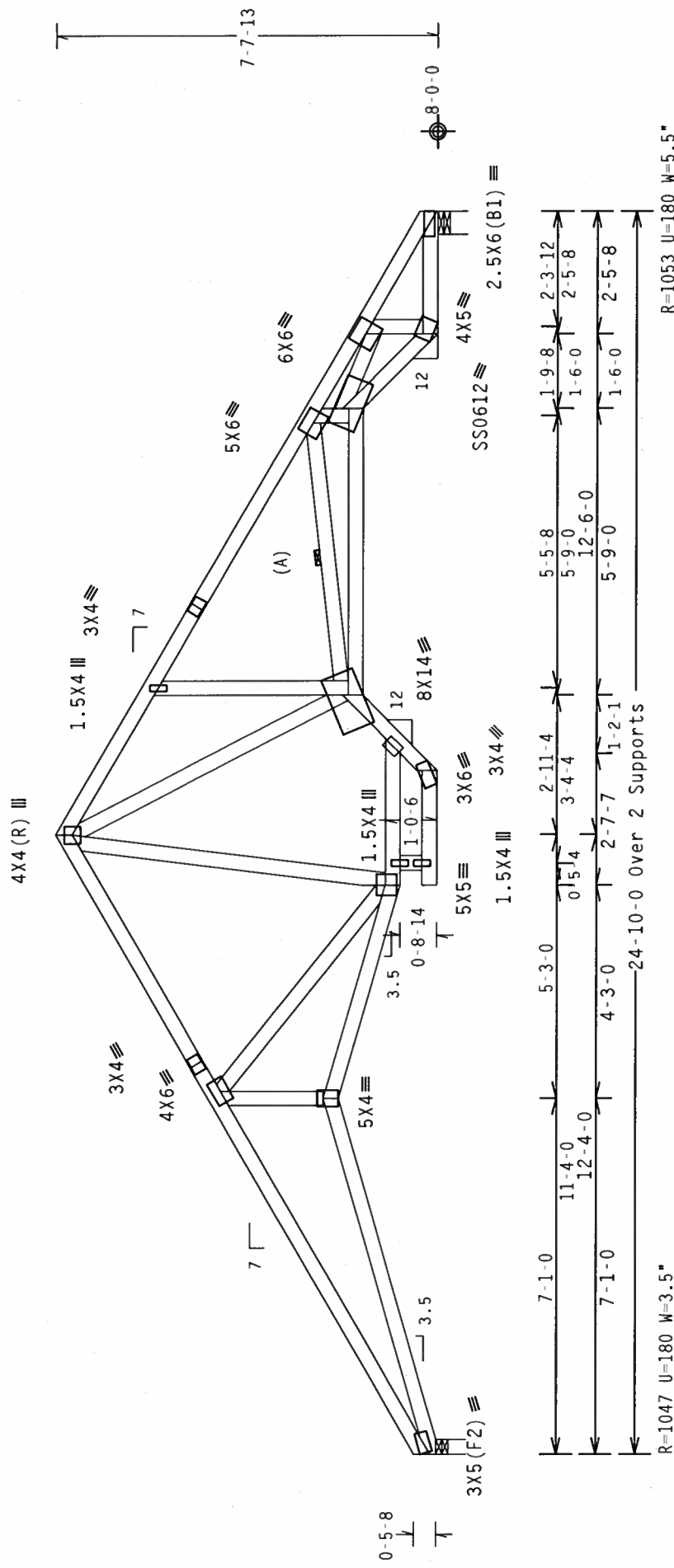
P.O. 59687

JAN 20 '06

Top chord	2x4	SP #2	Dense	110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
Rot chord	2x4	SP #2	Dense	
Webbs	2x4	SP #3		

(A) Continuous lateral bracing equally spaced on member.

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C., INCLUDING A LATERAL BRACE AT CHORD ENDS.



R=1053 U=180 W=5.5"

R=1047 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

Scale = .3125"/Ft.

ALPINE ALPINE Engineered Products, Inc. 1930 Murray Pl. Haines City, FL 33844 FL Certificate of Authorization # 567	**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. **IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (W, V/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 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 - - 2742
	TC DL		10.0	PSF	DATE 01/20/06	
	BC DL		10.0	PSF	DRW HCURS487 06020046	
	BC LL		0.0	PSF	HC-ENG DF/AF	
	TOT.LD.		40.0	PSF	SEQN- 77510	
DUR.FAC.			1.25			
SPACING			24.0"	JREF- 1SU0487_Z01		

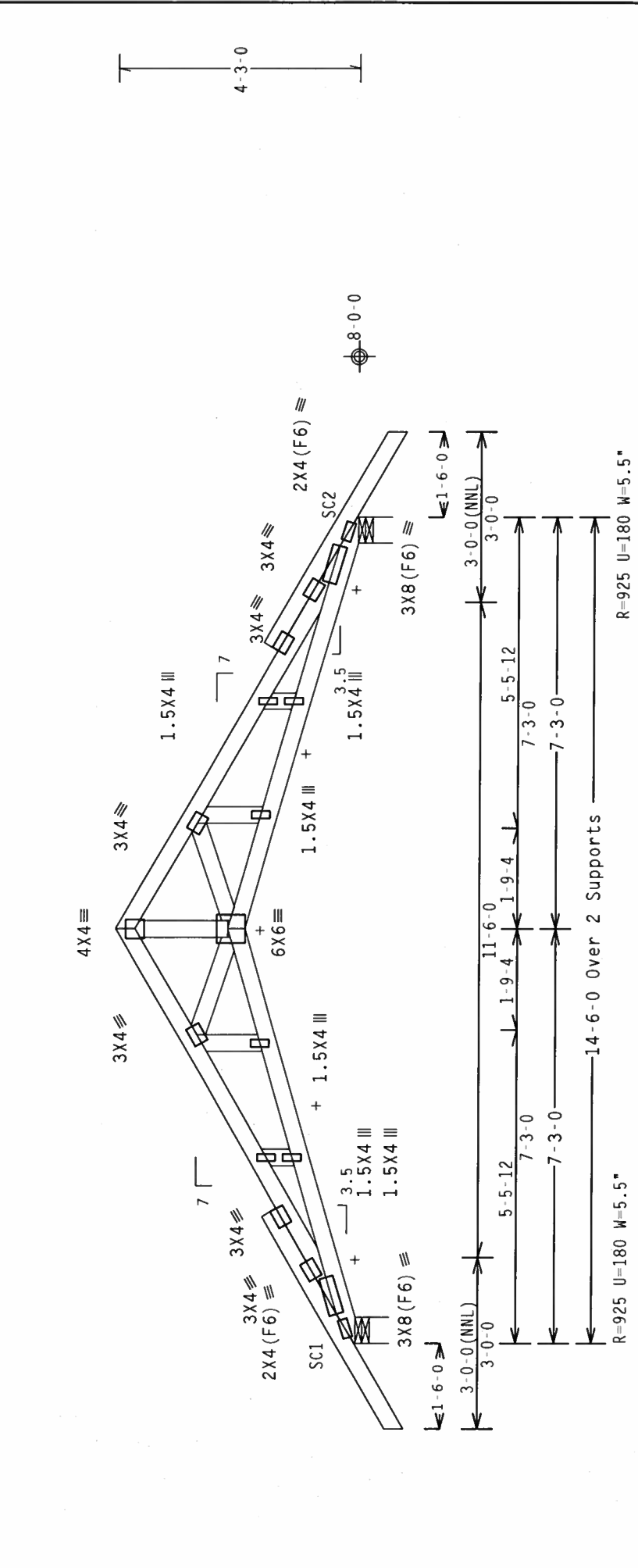
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor

or dead load is 1.50.

+ MEMBER TO BE Laterally Braced For Wind Loads Perpendicular To Truss. Bracing System To Be Designed And Furnished By Others.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	Cq/RT=1.00(1.25)/10(0)	7.22.1	FL - / 4 - / - R -	Scale = .375"/Ft.
*WARNING** RUSSOS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO PAGES 1-6 FOR CONSTRUCTION INFORMATION. PUBLISHED BY TPI (RUSS PLATE INSTITUTE). 593 D:\PROJ\BIO\SUITE_200_MATLSSOK - 5321615			No. 59887	REF R487 -- 2744
			TC LL	20.0 PSF

		DATE		01/20/06	
		DRW		HCSR487 06020048	
		HC-ENG		DF/AF	
		SEQN-		77645 REV	
		TOT.LD.		40.0 PSF	
		DUR.FAC.		1.25	
		SPACING		SEE ABOVE	
		JREF-		1SU0487 Z01	

****IMPORTANT*****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.
 PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN:
 TRUSSES IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
 DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RIDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE
 CONDOR PLATES ARE MADE OF 2018/T16GGA (M-HY/SKT) ASTM A653 GRADE 40760 (IN. K/H-S) GALV. STEEL. APPLY
 PITCHES ON PLATES ARE MADE OF 2018/T16GGA (M-HY/SKT) ASTM A653 GRADE 40760 (IN. K/H-S) GALV. STEEL. APPLY
 AN INSPECTION OF PLATES FOLLOWED BY VISUAL PERIODIC INSPECTIONS SHALL BE REQUIRED FOR THE SEALING OF THE
 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSSWORKING
 DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
 BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Jan 20, 2006

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

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

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

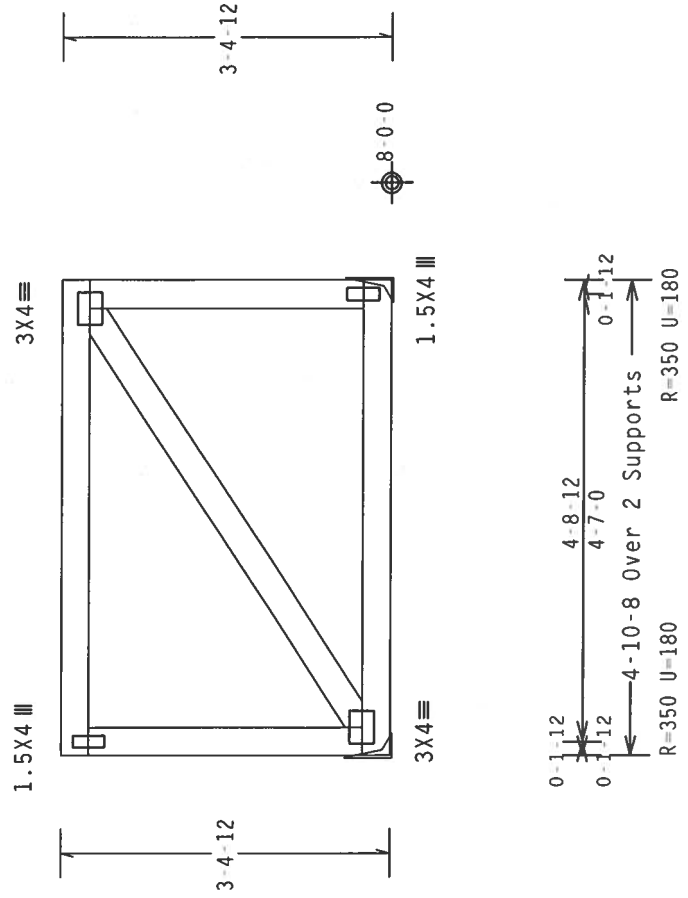
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

End verticals not exposed to wind pressure.

Girder supports 5-2-8 span to BC one face and 2-0-0 span to TC/BC split opposite face.

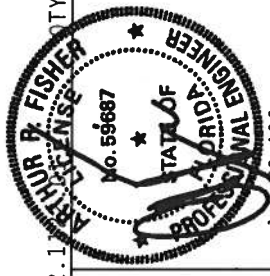
Truss must be installed as shown with top chord up.



Design Crit: TPI-2002(STD)/FBC

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

Scale = .5" / Ft.

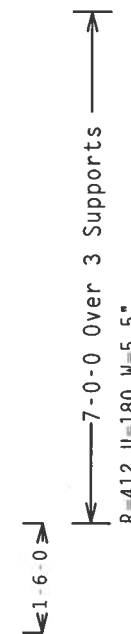


****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 300 ONOFREO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

TC LL	20.0 PSF	FL / - 4 / - / - R / -
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	SEE ABOVE	
REF	R487 -- 2745	
DATE	01/20/06	
DRW	HCUSR487 06020059	
HC-ENG	DF / AF	
SEQN	25994	
JREF	1SU0487_Z01	

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



Scale = .375"/Ft.

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

FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BG51 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUMFRIES DR., SUITE 200, MADISON, WI 53715) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, FORT SMITH, AR 72117). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, THE INSTALLER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

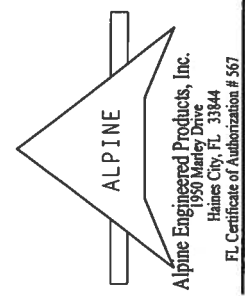
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS IS NOT RESPONSIBLE FOR ANY DETAIL FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH THE MANUFACTURING AND INSTALLATION SPECIFICATIONS OF THE TRUSS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/18GA (W-H/S/S) ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 180A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ALPINE

PROFESSIONAL ENGINEER
No. 59687
STATE OF FLORIDA
JUL 20 '06

TC LL	20.0	PSF	REF	R487 -	2747
TC DL	10.0	PSF	DATE	01/20/06	
BC DL	10.0	PSF	DRW	HCURS487	06020050
BC LL	0.0	PSF	HC-ENG	DF/AF	
TOT.LD.	40.0	PSF	SEQN-	25961	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1SU0487_Z01	

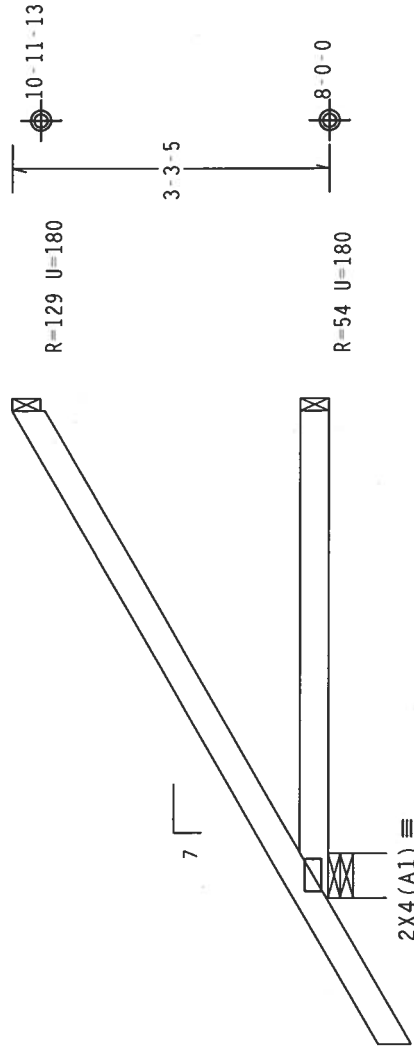


Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

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

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.



1-6-0

5-0-0 Over 3 Supports
R-335 U=180 W=5.5

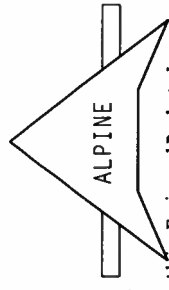
Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0)

Scale = .5" / Ft.

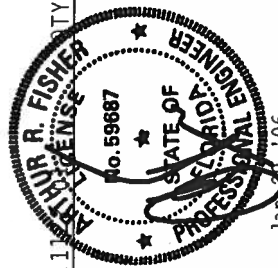
PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719), AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



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--	2748
DATE	01/20/06	
DRW	HCUSR487	06020051
HC-ENG	DF/AF	
SEQN-	25966	
JREF-	1SU0487_Z01	

[illegible]

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.



PLT TYP. Wave



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



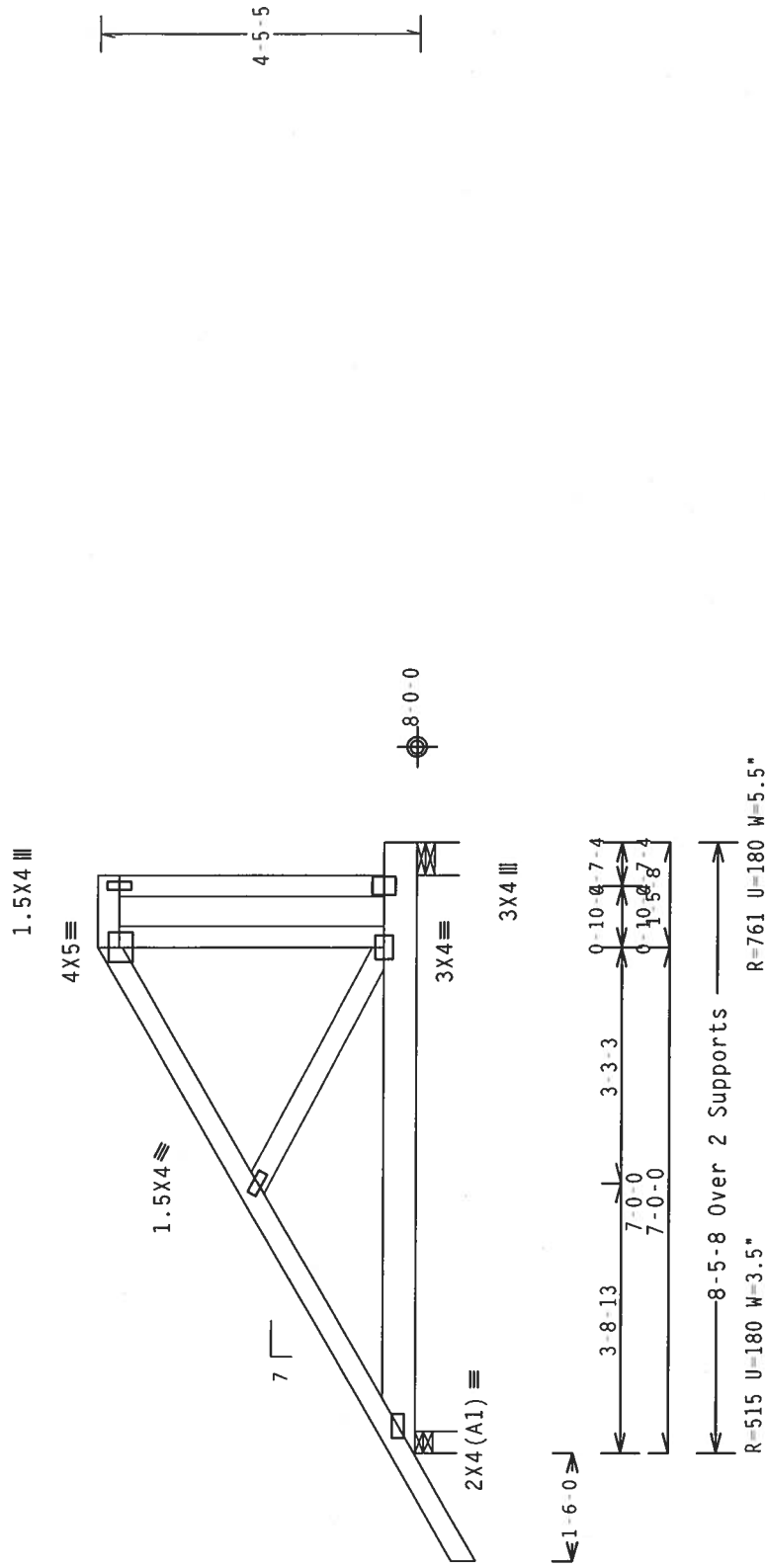
Top chord 2x4 SP #2 Dense	Right end vertical	not exposed to wind pressure.
---------------------------	--------------------	-------------------------------

Bot chord 2x6 SP #2

Webbs 2x4 SP #3
#1 hip supports 7-0-0 jacks with no webs.

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

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



PLT TYP. Wave



ALPINE

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

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.22.10

FL/-/4/-/R/- Scale = .375"/Ft.

REF R487 --	2751
DATE	01/20/06
DRW HCUSR487	06020053
HC-ENG DF/AF	
SEQN-	26058
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	SEE ABOVE

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 HAWTHORNE AVENUE, SUITE 1910, FORT WORTH, TEXAS 76102) AND TPI (4000 WEST 10TH STREET, SUITE 200, MADISON, MI 48319) FOR SAFETY PRACTICES FOR PROPER TRUSS HANDLING. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (.015"/.018") ASTM A653 GRADE 40/60 (M. K/M.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPANY'S DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 3 SEC. 2.

PROFESSIONAL ENGINEER

STATE OF FLORIDA

NO. 59687

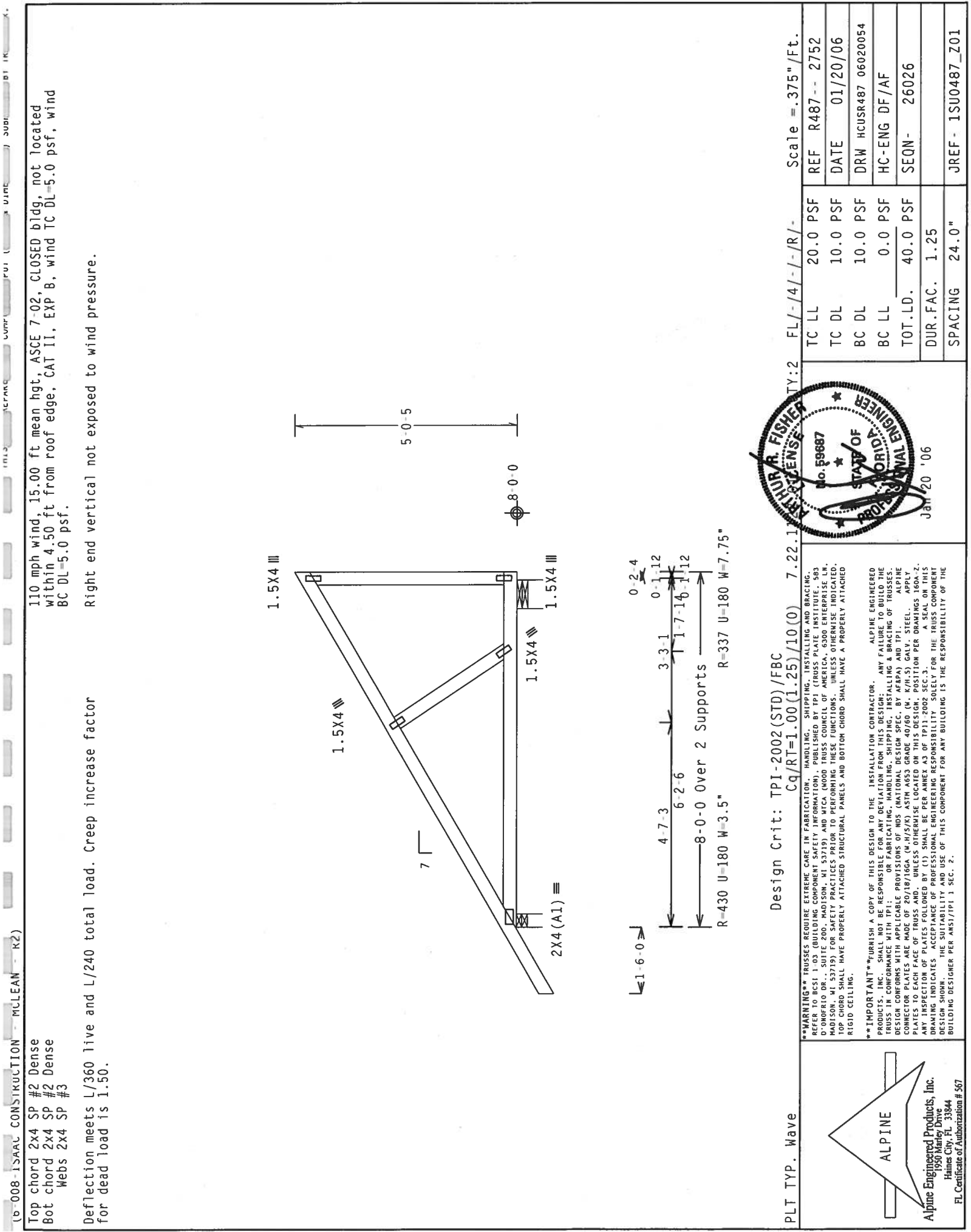
DATE: Jan 20 '06

FLORIDA PROFESSIONAL ENGINEER

STATE OF FLORIDA

NO. 59687

DATE: Jan 20 '06

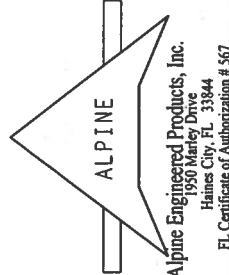


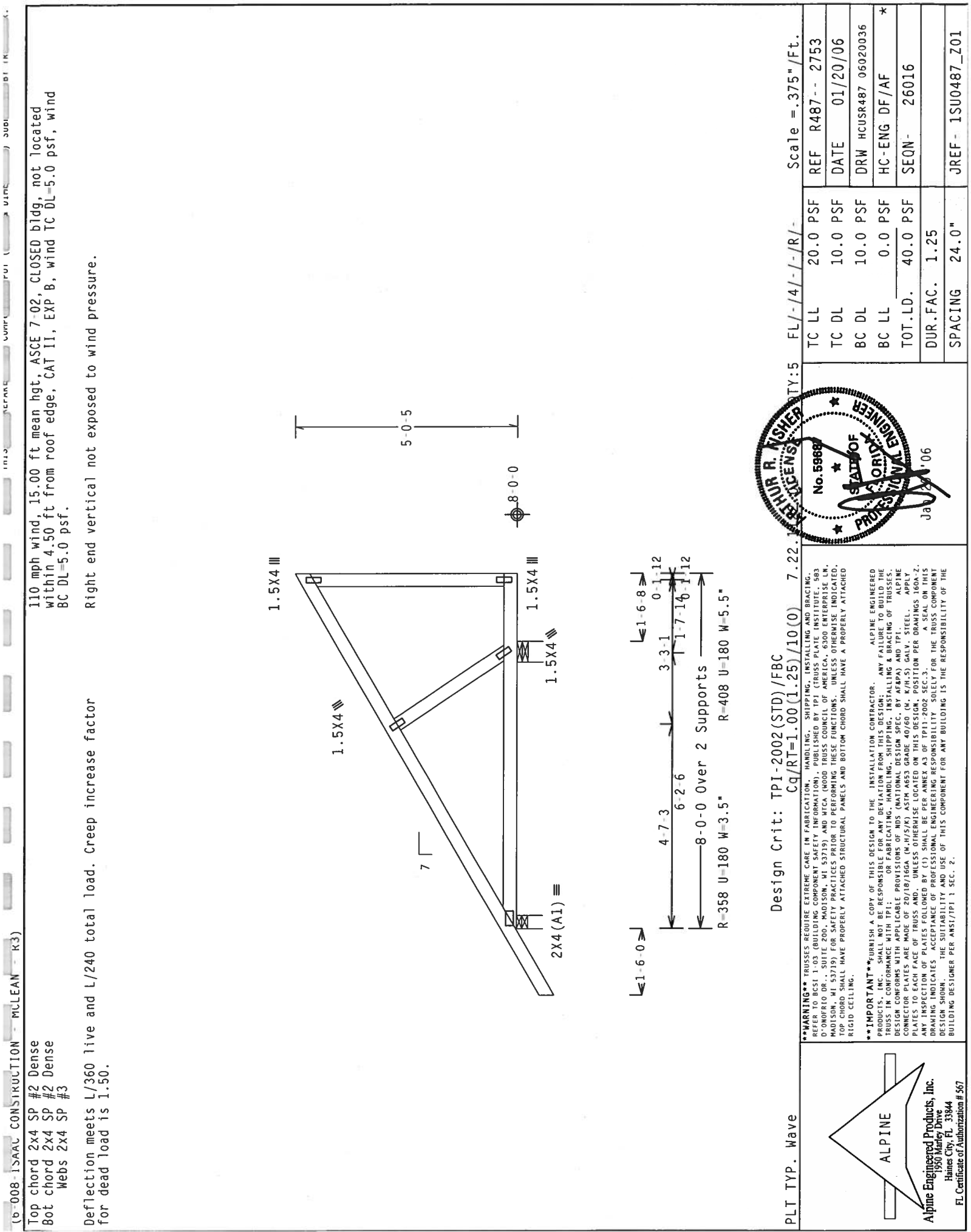
Design Crit: TPI-2002 (STD)/FBC
Cq/RT=1.00(1.25)/10(0)

Scale = .375" / Ft.	REF R487 -- 2752
TC LL 20.0 PSF	DATE 01/20/06
TC DL 10.0 PSF	DRW HCUSR487 06020054
BC DL 10.0 PSF	HC-ENG DF/AF
BC LL 0.0 PSF	SEQN- 26026
TOT.LD. 40.0 PSF	
DUR.FAC. 1.25	
SPACING 24.0"	JREF - 1SU0487_Z01

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (4-H/5/K) ASTM A653 GRADE 40/60 (4. K/H.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN HEREON. NO PART OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TP1 1 SEC. 2.





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

Right end vertical not exposed to wind pressure.

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

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

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

Scale = .375"/Ft.

PLT TYP. Wave

ALPINE

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

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

Scale = .375"/Ft.

PLT TYP. Wave

ALPINE

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

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

Scale = .375"/Ft.

PLT TYP. Wave

ALPINE

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

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

Scale = .375"/Ft.

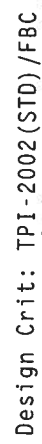
PLT TYP. Wave

ALPINE

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

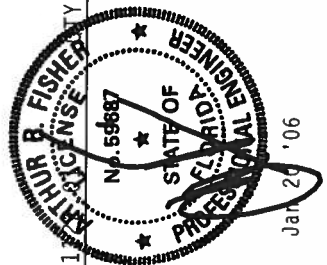
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Right end vertical not exposed to wind pressure.

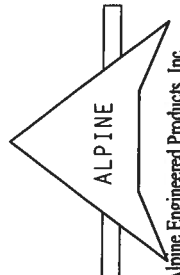


Scale = .375" / Ft.

TC LL	20.0	PSF	REF R487 - - 2754
TC DL	10.0	PSF	DATE 01/20/06
BC DL	10.0	PSF	DRW HCUSR487 06020055
BC LL	0.0	PSF	HC-ENG DF/AF
TOT.LD.	40.0	PSF	SEQN- 26067
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1SU0487 Z01



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 SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS, NATIONAL DESIGN SPEC. (N. D. S.) ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GGA (W/4/3/5) ASTM A563 STEEL (W. 4/1/5) GALV. STEEL PLATES TO EACH FACE OF TRUSS AND OTHERWISE LOCATED ON THIS DESIGN. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4 OF TPI-2002 SEC. 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



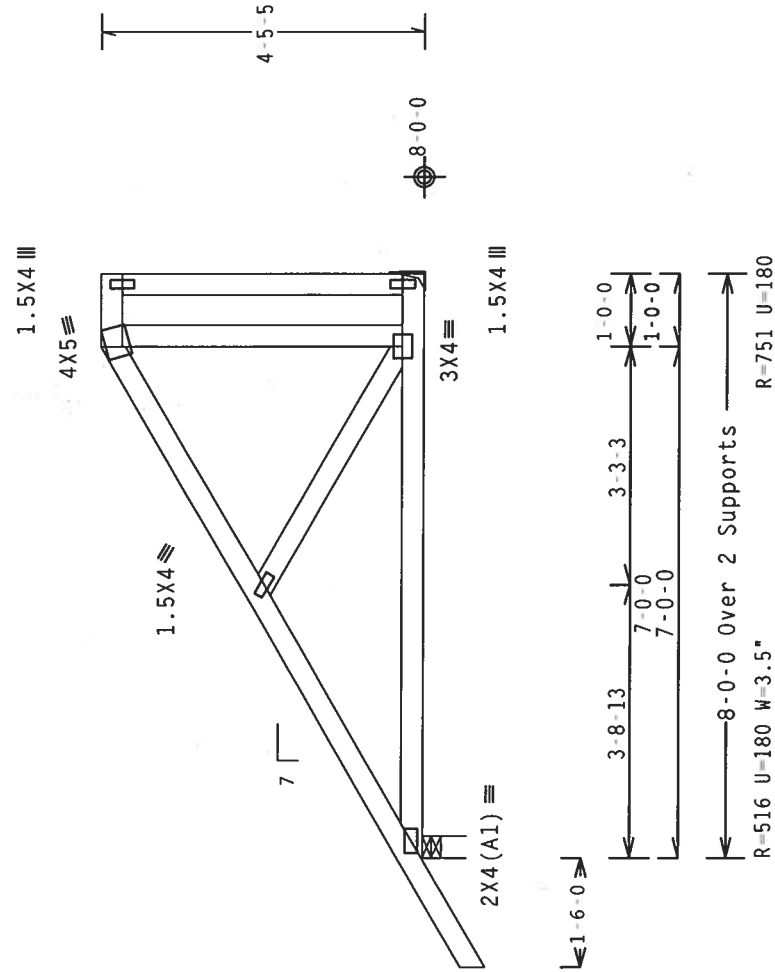
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

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

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

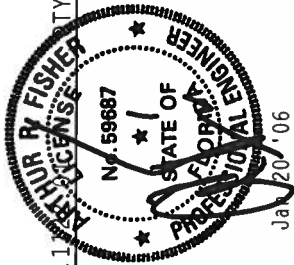
Deflection meets L/360 live and L/240 total load. Creep increase factor
for dead load is 1.50.

Right end vertical not exposed to wind pressure.
#1 hip supports 7-0-0 jacks with no webs.



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

Scale = .375"/Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONOHUE DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR TPI-2002 (STD)/FBC, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTIONS, OR CEILING SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR TPI-2002 (STD)/FBC, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTIONS, OR CEILING SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR TPI-2002 (STD)/FBC, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTIONS, OR CEILING SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

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	SEE ABOVE
JREF	1SU0487_Z01

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

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

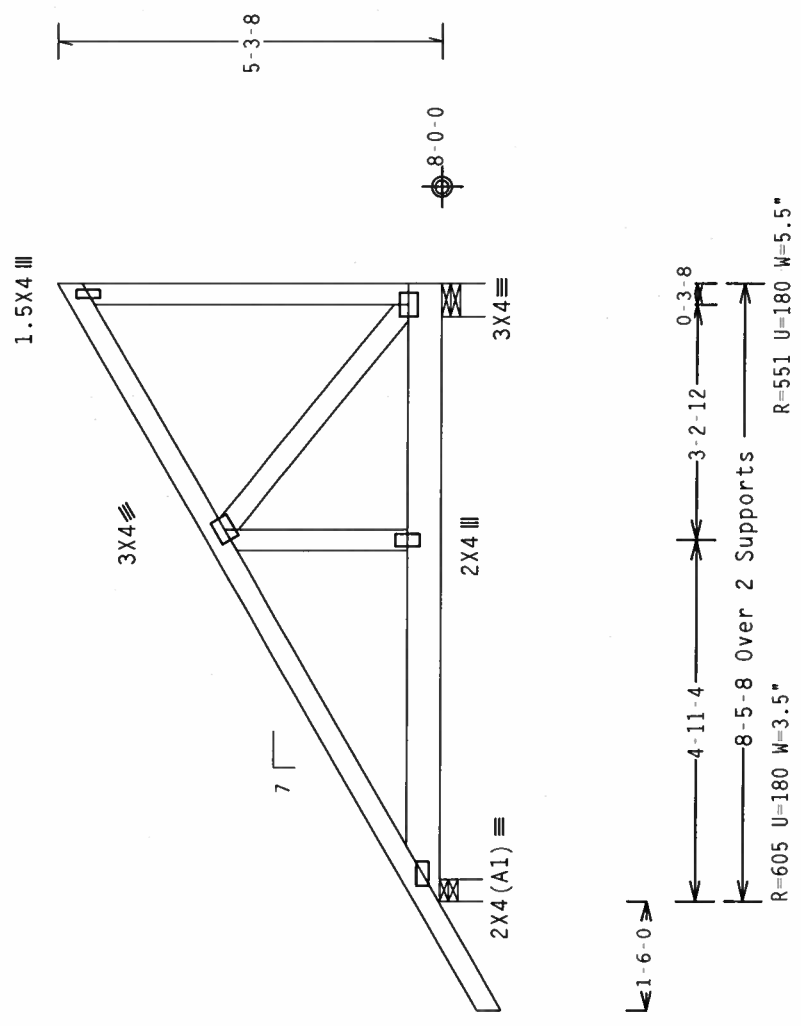
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS

----- (LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)
TC - From 63 PLF at -1.50 to 63 PLF at 8.46
BC - From 5 PLF at -1.50 to 20 PLF at 8.46
BC - 350 LB Conc. Load at 5.27

Right end vertical not exposed to wind pressure.

THE BUILDING DESIGNER SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS"). TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR LOAD MAGNITUDES AND LOCATIONS.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

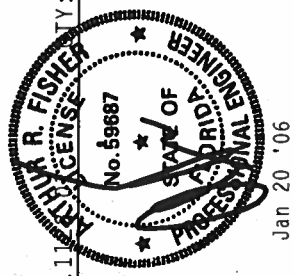
$$Cq/RT=1.00(1.25)/10(0)$$

...11 FEB 1968
U.S. FISHERIES
CENSUS
TY: 2

Scale = .375" / Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 O'GRODIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 MANUFACTURING AND SHIPPING INSTRUCTIONS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY APCA) AND TPI-1 MANUFACTURING AND SHIPPING INSTRUCTIONS. ALL TRUSS AND PLATE CONNECTOR PLATES ARE MADE OF 2010/1066 (M/H/SI) ASTM A653 GRADE 40/60 (M/H/SI) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, (M/H/SI) OTHERWISE LOCATED ON THIS DESIGN PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4 OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSII/TPI-1 SEC. 2.



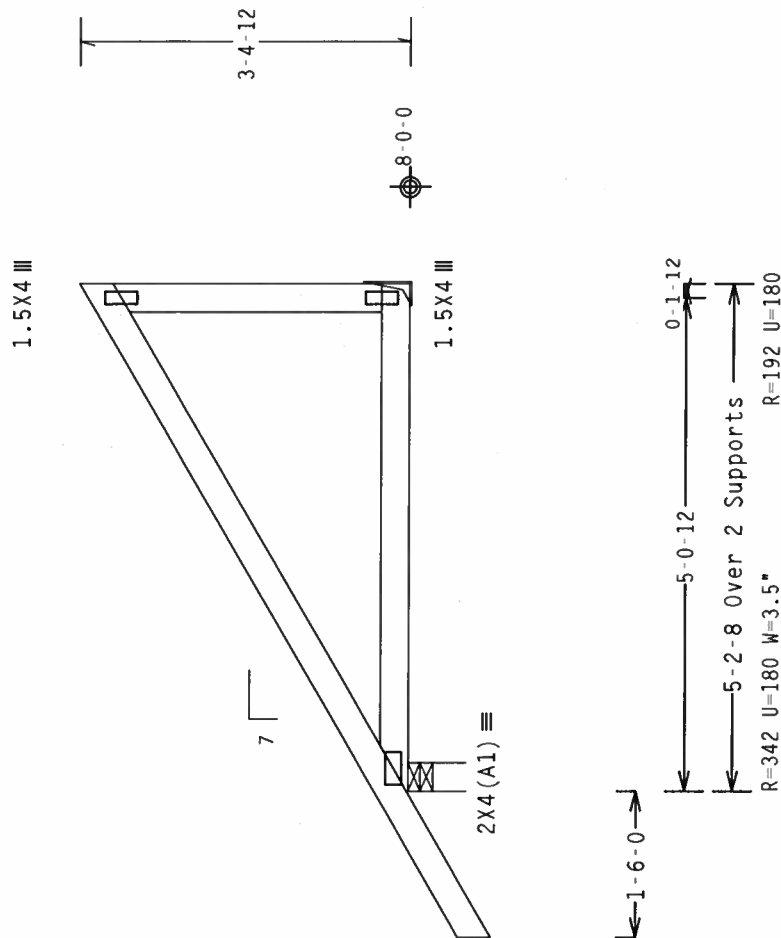
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

TC LL	20.0 PSF	REF	R487-- 2756
TC DL	10.0 PSF	DATE	01/20/06
BC DL	10.0 PSF	DRW	HCUSR487 06020060
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN-	26003
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SU0487_Z01

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

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50. Right end vertical not exposed to wind pressure.

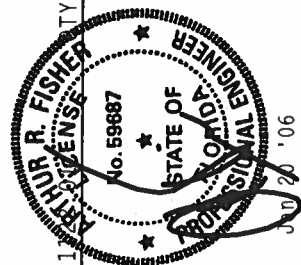


Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$ 7.22.13

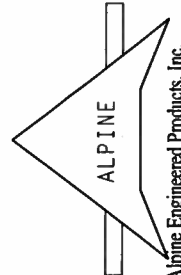
Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R487 -- 2757
TC DL	10.0 PSF	DATE	01/20/06
BC DL	10.0 PSF	DRW	HCUSR487 06020037
BC LL	0.0 PSF	HC-ENG	DF / AF *
TOT.LD.	40.0 PSF	SEQN-	25986
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SU0487_Z01



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1 03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONOGHUE RD., SUITE 200, MAISON, IL 52741) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., SUITE 100, WILSONVILLE, OR 97158). SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PAINTS AND BOTTOM CHORD SHALL HAVE A DIFFERENTLY ATTACHED TOP CHORD GRADING.

IMPORTANT-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS CONFORMS WITH THE MANUFACTURING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE INTERNATIONAL BUILDING CODES AND ALPINE CONNECTOR PLATES ARE MADE OF 2010/166A (H/H25/37) ASTM A663 GRADE 40/60, 50/60, 60/60, 70/60, 80/60, 90/60, 100/60, 110/60, 120/60, 130/60, 140/60, 150/60, 160/60, 170/60, 180/60, 190/60, 200/60, 210/60, 220/60, 230/60, 240/60, 250/60, 260/60, 270/60, 280/60, 290/60, 300/60, 310/60, 320/60, 330/60, 340/60, 350/60, 360/60, 370/60, 380/60, 390/60, 400/60, 410/60, 420/60, 430/60, 440/60, 450/60, 460/60, 470/60, 480/60, 490/60, 500/60, 510/60, 520/60, 530/60, 540/60, 550/60, 560/60, 570/60, 580/60, 590/60, 600/60, 610/60, 620/60, 630/60, 640/60, 650/60, 660/60, 670/60, 680/60, 690/60, 700/60, 710/60, 720/60, 730/60, 740/60, 750/60, 760/60, 770/60, 780/60, 790/60, 800/60, 810/60, 820/60, 830/60, 840/60, 850/60, 860/60, 870/60, 880/60, 890/60, 900/60, 910/60, 920/60, 930/60, 940/60, 950/60, 960/60, 970/60, 980/60, 990/60, 1000/60, 1010/60, 1020/60, 1030/60, 1040/60, 1050/60, 1060/60, 1070/60, 1080/60, 1090/60, 1100/60, 1110/60, 1120/60, 1130/60, 1140/60, 1150/60, 1160/60, 1170/60, 1180/60, 1190/60, 1200/60, 1210/60, 1220/60, 1230/60, 1240/60, 1250/60, 1260/60, 1270/60, 1280/60, 1290/60, 1300/60, 1310/60, 1320/60, 1330/60, 1340/60, 1350/60, 1360/60, 1370/60, 1380/60, 1390/60, 1400/60, 1410/60, 1420/60, 1430/60, 1440/60, 1450/60, 1460/60, 1470/60, 1480/60, 1490/60, 1500/60, 1510/60, 1520/60, 1530/60, 1540/60, 1550/60, 1560/60, 1570/60, 1580/60, 1590/60, 1600/60, 1610/60, 1620/60, 1630/60, 1640/60, 1650/60, 1660/60, 1670/60, 1680/60, 1690/60, 1700/60, 1710/60, 1720/60, 1730/60, 1740/60, 1750/60, 1760/60, 1770/60, 1780/60, 1790/60, 1800/60, 1810/60, 1820/60, 1830/60, 1840/60, 1850/60, 1860/60, 1870/60, 1880/60, 1890/60, 1900/60, 1910/60, 1920/60, 1930/60, 1940/60, 1950/60, 1960/60, 1970/60, 1980/60, 1990/60, 2000/60, 2010/60, 2020/60, 2030/60, 2040/60, 2050/60, 2060/60, 2070/60, 2080/60, 2090/60, 2100/60, 2110/60, 2120/60, 2130/60, 2140/60, 2150/60, 2160/60, 2170/60, 2180/60, 2190/60, 2200/60, 2210/60, 2220/60, 2230/60, 2240/60, 2250/60, 2260/60, 2270/60, 2280/60, 2290/60, 2300/60, 2310/60, 2320/60, 2330/60, 2340/60, 2350/60, 2360/60, 2370/60, 2380/60, 2390/60, 2400/60, 2410/60, 2420/60, 2430/60, 2440/60, 2450/60, 2460/60, 2470/60, 2480/60, 2490/60, 2500/60, 2510/60, 2520/60, 2530/60, 2540/60, 2550/60, 2560/60, 2570/60, 2580/60, 2590/60, 2600/60, 2610/60, 2620/60, 2630/60, 2640/60, 2650/60, 2660/60, 2670/60, 2680/60, 2690/60, 2700/60, 2710/60, 2720/60, 2730/60, 2740/60, 2750/60, 2760/60, 2770/60, 2780/60, 2790/60, 2800/60, 2810/60, 2820/60, 2830/60, 2840/60, 2850/60, 2860/60, 2870/60, 2880/60, 2890/60, 2900/60, 2910/60, 2920/60, 2930/60, 2940/60, 2950/60, 2960/60, 2970/60, 2980/60, 2990/60, 3000/60, 3010/60, 3020/60, 3030/60, 3040/60, 3050/60, 3060/60, 3070/60, 3080/60, 3090/60, 3100/60, 3110/60, 3120/60, 3130/60, 3140/60, 3150/60, 3160/60, 3170/60, 3180/60, 3190/60, 3200/60, 3210/60, 3220/60, 3230/60, 3240/60, 3250/60, 3260/60, 3270/60, 3280/60, 3290/60, 3300/60, 3310/60, 3320/60, 3330/60, 3340/60, 3350/60, 3360/60, 3370/60, 3380/60, 3390/60, 3400/60, 3410/60, 3420/60, 3430/60, 3440/60, 3450/60, 3460/60, 3470/60, 3480/60, 3490/60, 3500/60, 3510/60, 3520/60, 3530/60, 3540/60, 3550/60, 3560/60, 3570/60, 3580/60, 3590/60, 3600/60, 3610/60, 3620/60, 3630/60, 3640/60, 3650/60, 3660/60, 3670/60, 3680/60, 3690/60, 3700/60, 3710/60, 3720/60, 3730/60, 3740/60, 3750/60, 3760/60, 3770/60, 3780/60, 3790/60, 3800/60, 3810/60, 3820/60, 3830/60, 3840/60, 3850/60, 3860/60, 3870/60, 3880/60, 3890/60, 3900/60, 3910/60, 3920/60, 3930/60, 3940/60, 3950/60, 3960/60, 3970/60, 3980/60, 3990/60, 4000/60, 4010/60, 4020/60, 4030/60, 4040/60, 4050/60, 4060/60, 4070/60, 4080/60, 4090/60, 4100/60, 4110/60, 4120/60, 4130/60, 4140/60, 4150/60, 4160/60, 4170/60, 4180/60, 4190/60, 4200/60, 4210/60, 4220/60, 4230/60, 4240/60, 4250/60, 4260/60, 4270/60, 4280/60, 4290/60, 4300/60, 4310/60, 4320/60, 4330/60, 4340/60, 4350/60, 4360/60, 4370/60, 4380/60, 4390/60, 4400/60, 4410/60, 4420/60, 4430/60, 4440/60, 4450/60, 4460/60, 4470/60, 4480/60, 4490/60, 4500/60, 4510/60, 4520/60, 4530/60, 4540/60, 4550/60,



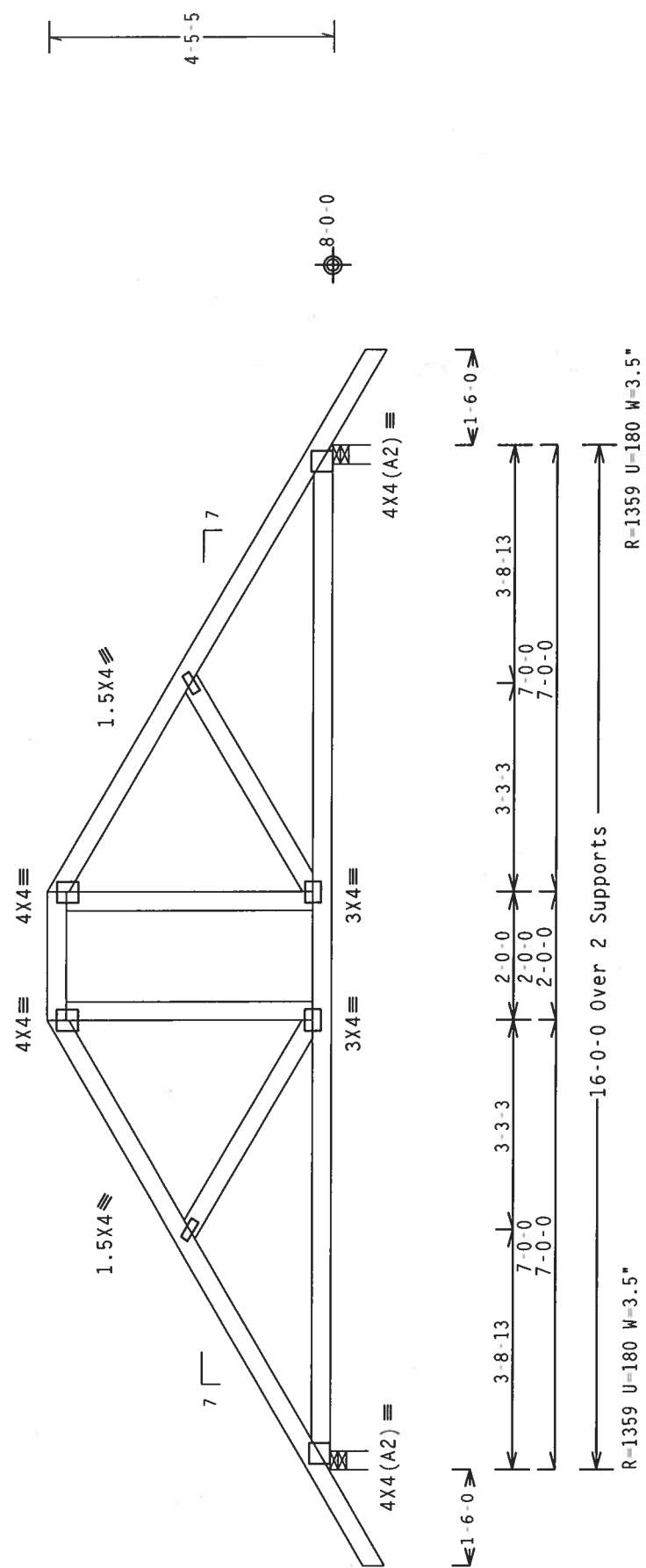
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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

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

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

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



PLT TYP. Wave

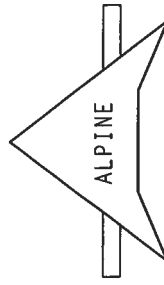
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .375"/Ft.

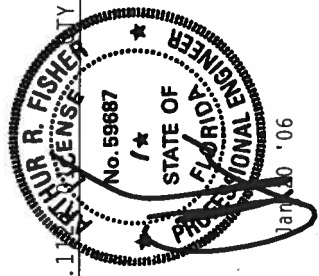
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DATE	01/20/06	
DRW	HCUSR487	06020057
HC-ENG	DF/AF	
SEQN-	26073	
DUR.FAC.	1.25	
SPACING	SEE ABOVE	
JREF-	1SU0487_Z01	

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT 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/TPI 1 SEC. 2.



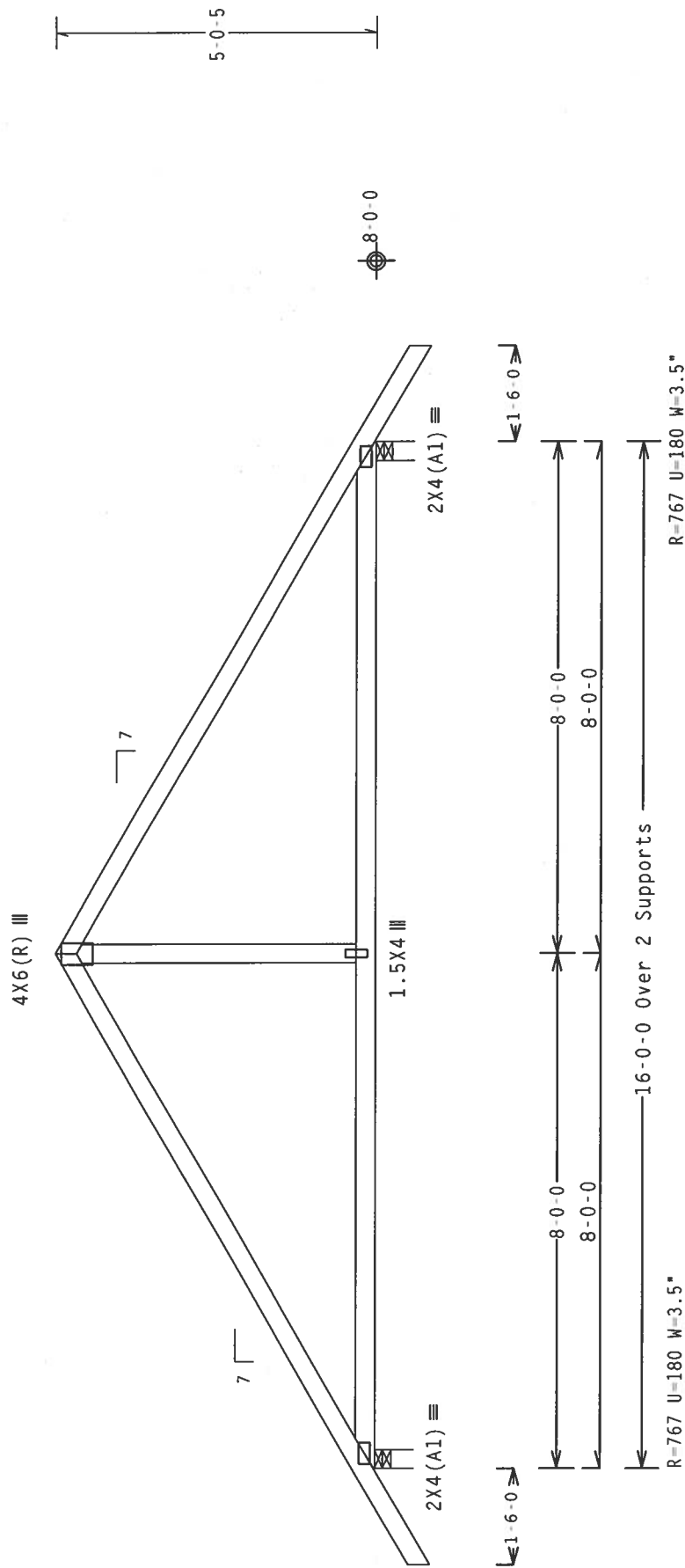
ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567



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

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

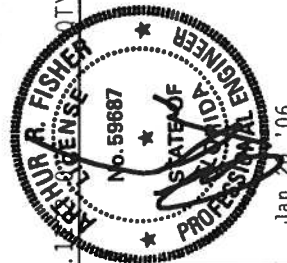
 $Cq/RT=1.00(1.25)/10(0) \quad 7.22.1$

QTY:2 FL/-/4/-/-/R/-

Scale = .375"/Ft.

[illegible]

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TPI... OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
CONNECTION PLATES ARE MADE OF 2018 TENSILE STRENGTH SPEC. (SEE ATTACHED) AND ALL STEEL
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER PARAGRAPHS 160A.2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI-2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BUILDING DESIGNER PER ANTI/TPI 1.1 SEC.2 OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



Alpine Engineered Products, Inc.
1950 Marley Drive

Haines City, FL 33844

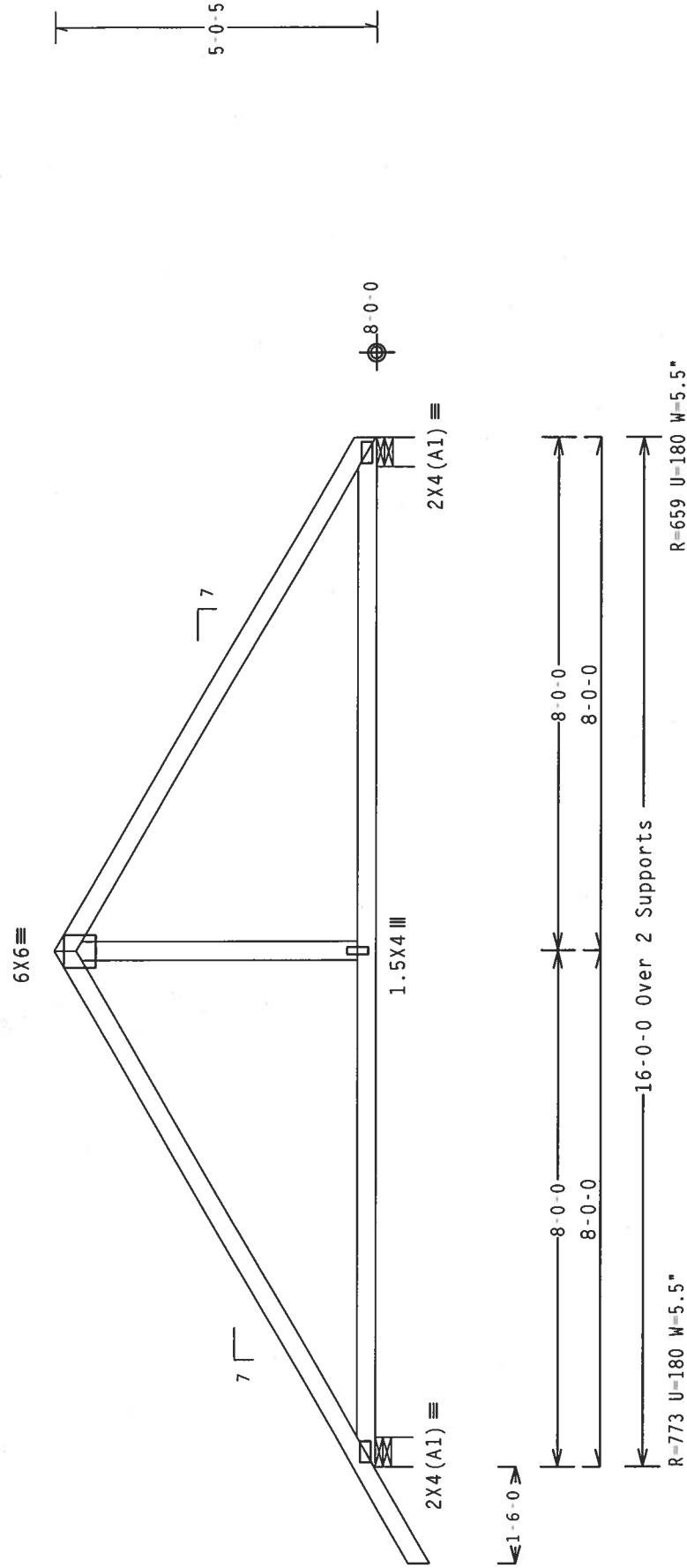
SPACING 24.0"

JREF- 1SU0487 Z01

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

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

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

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

7.22.13

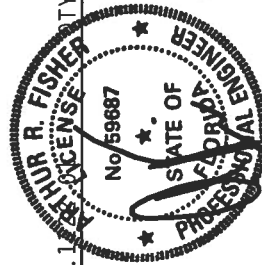
PROPERTY: 2

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

Scale = .375"/Ft.

***WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. SEE PAGE 861 OF (FOLLOWING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS FACTORY INSTITUTE, 583 DOWD AVE., WILSONVILLE, OREGON 97150). THESE TRUSSES ARE DESIGNED TO BE INSTALLED AND BRACED IN ACCORDANCE WITH THE TPI DESIGN HANDBOOK, 1997 EDITION, CHAPTER 10, SECTION 10.3.1. THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

***PRODUCT**TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE DESIGNER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP11 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD (NATIONAL DESIGN SPEC. BY AFAPA) AND TP11. ALPINE TRUSS COMPANY SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE TRUSS COMPONENTS. THE TRUSS SHALL BE PLATED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER GRANGES 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 BUILDING DESIGNER PER ANNEX (TP11) SEC. 2 OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX (TP11) SEC. 2.



Jan 26 '06

Haines City, FL 33844
FL Certificate of Authorization # 567

SPACING 24.0"

JREF- 1SU0487 Z01

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

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

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

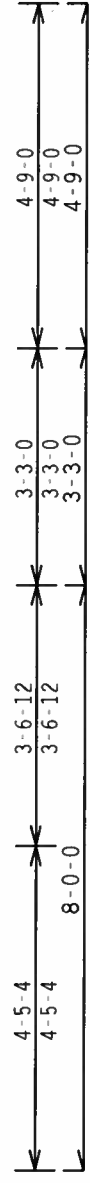
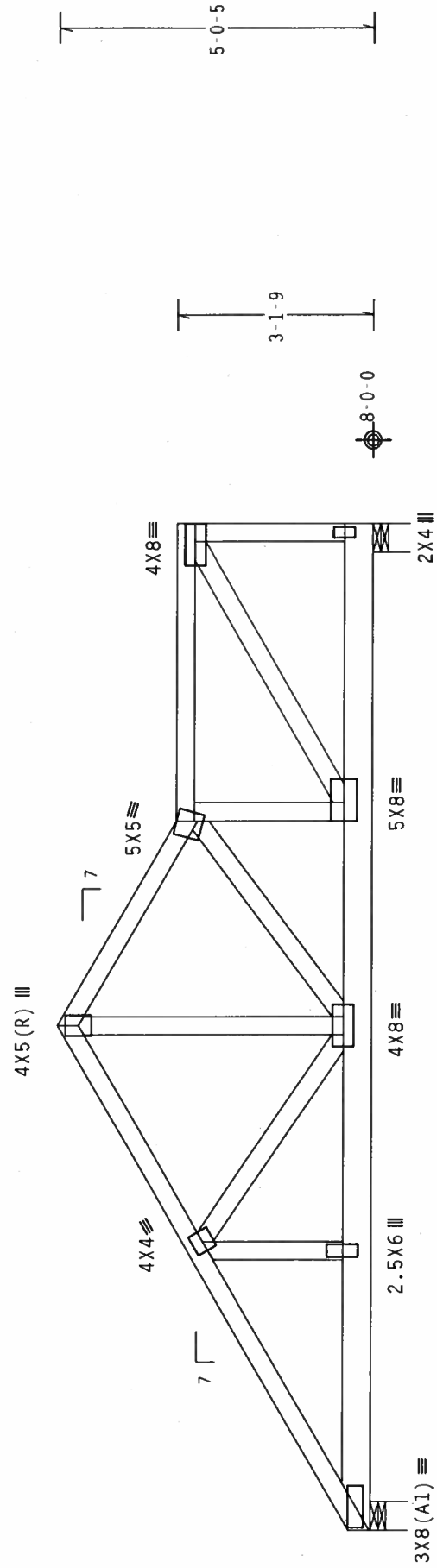
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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 @ 8.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Right end vertical not exposed to wind pressure.

Girder supports 24'-4" span to BC one face and 2'-0" span to TC/BC split opposite face.



R-4371 U=367 W=5.5"
R-4291 U=360 W=5.5"

Design Crit: TPI-2002 (STD) /FBC

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

7-22-11

FL/-4/-/-R/-

Scale = .375"/Ft.

PLT TYP. Wave

REF R487-- 2761

DATE 01/20/06

DRW HCUSR487 06020061

HC-ENG DF/AF

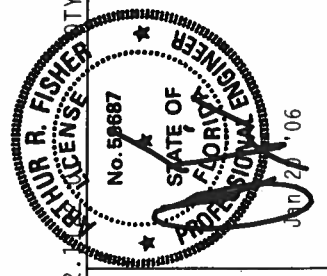
SEQN- 26094

DUR.FAC. 1.25

SPACING SEE ABOVE

JREF- 1SU0487_Z01

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



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****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (W.H/2/S/K) ASTM A553 GRADE 40/60 (W. K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING LOCATIONS OF PLATES FOLLOWED BOTTOM CHORD. (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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.

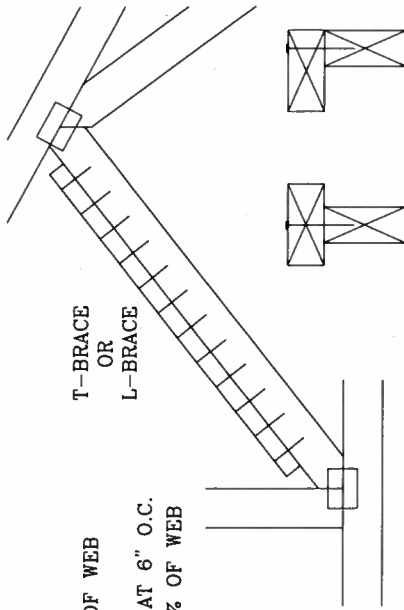
(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

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

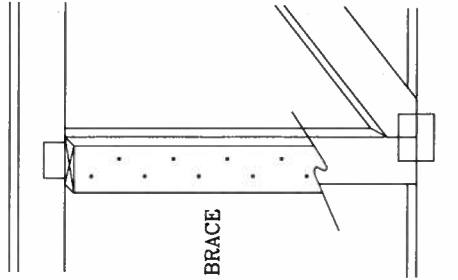


T-BRACE

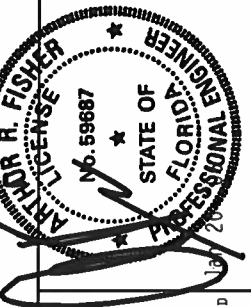
L-BRACE

SCAB BRACING:

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



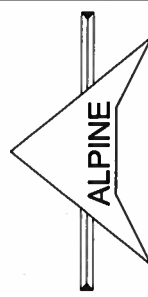
SCAB BRACE



THIS DRAWING REPLACES DRAWING 579.640

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-87 BUILDING COMPONENTS, INC. TRUSS DESIGN SPEC. FOR TRUSS DESIGN, TRUSS PLATE INSTITUTE, 583 JONDRID DR. SUITE 200, MADISON, WI 53719 AND VTC GOOD PRACTICES, CHORDS 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.

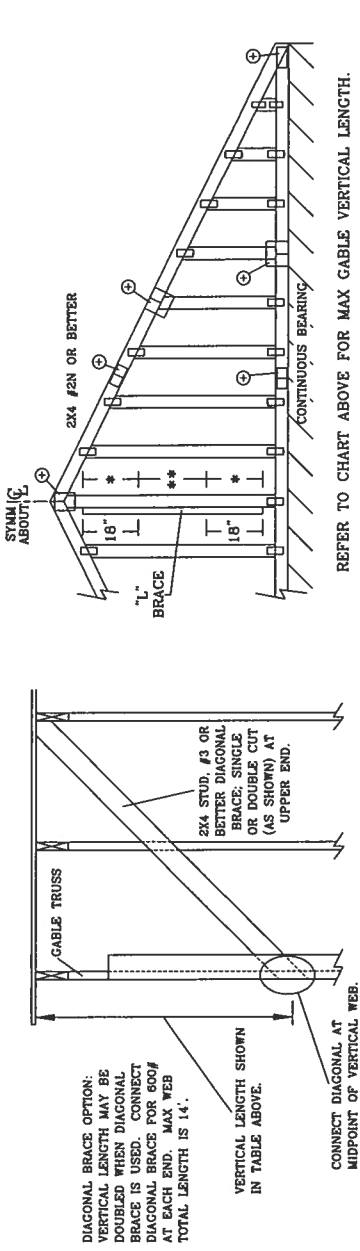
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BRACE, OR ANY OTHER CAUSE OF FAILURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE BRACING OF TRUSSES. DESIGN CONFORMS TO THE TRUSS DESIGN SPEC. OF 40/60 (W/K/H/S) GALV. STEEL. CONNECTOR PLATES ARE MADE OF 30/18 (W/K/H/S) WITH 40/60 (W/K/H/S) GALV. STEEL. APPLY CONNECTOR PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



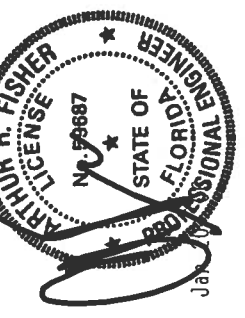
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLESUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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



ALPINE ENGINEERED PRODUCTS, INC. POMPANO BEACH, FLORIDA		MAX. TOT. LD. 60 PSF		MAX. SPACING 24.0"		REF ASCE7-02-CAB1015	
DATE 04/15/05		DRWG A11015EE0405		-ENG		DATE 04/15/05	



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

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 60 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

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

ATTACH EACH "L" BRACE WITH 10d NAILS.

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

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

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

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

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

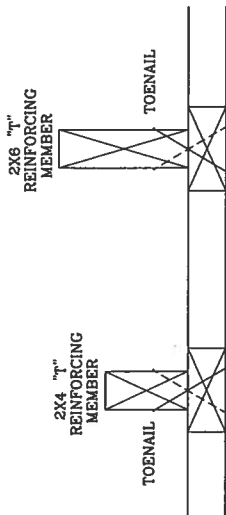
GABLE DETAIL FOR LET-IN VERTICALS

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

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

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

EXAMPLE:



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

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

WEB LENGTH INCREASE W/ "T" BRACE

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

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

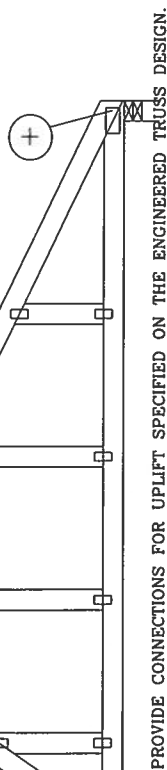
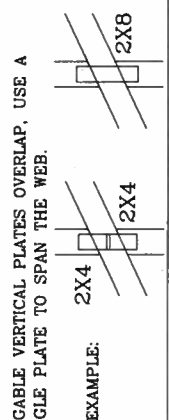
"T" REINFORCING MEMBER SIZE = 2X4

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

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

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

HAND DRIVEN NAILS:

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

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

GUN DRIVEN NAILS:

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

(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE

OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

A1015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103

A1030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103

A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,

A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI

WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE

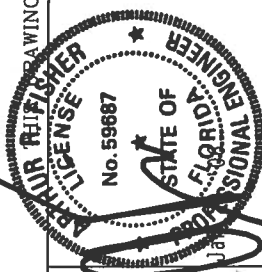
VERTICAL LENGTH.

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ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA



DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
-ENG	DLJ/KAR

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

TOP CHORD FILLER DETAIL

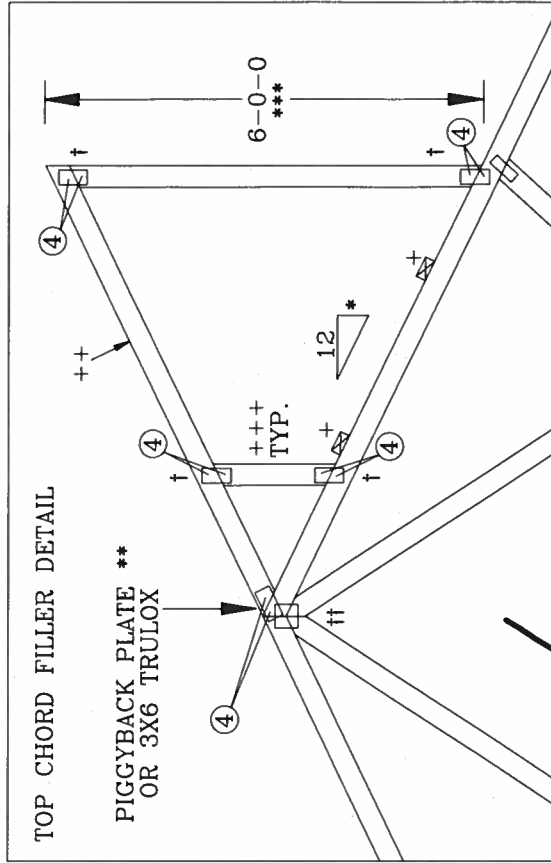
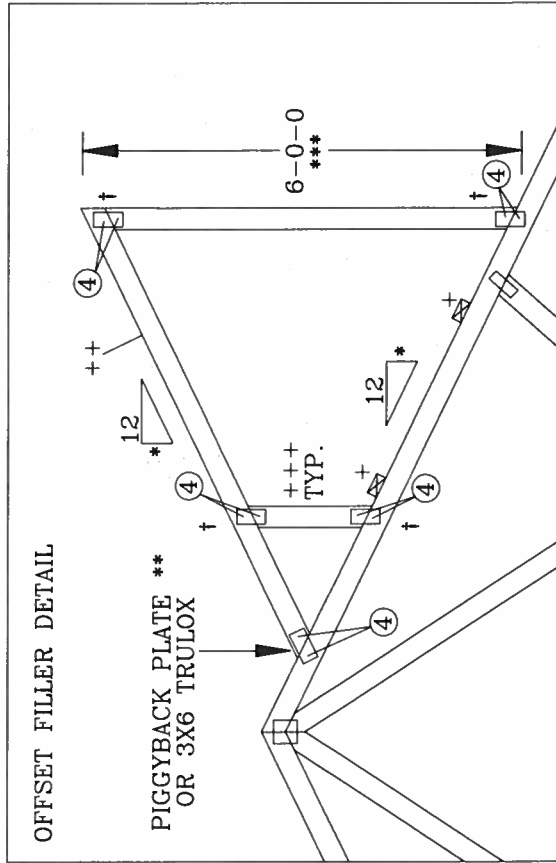
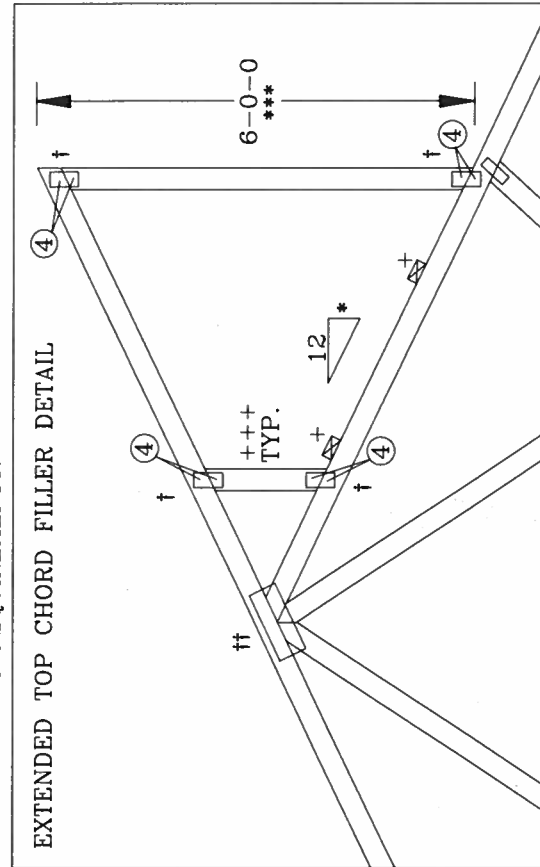
- + 2X4 CONTINUOUS LATERAL BRACING AT 24" OC MAXIMUM SPACING. ATTACH TO EACH TOP CHORD WITH (2) 16d NAILS. BRACING MATERIAL TO BE SUPPLIED AND ATTACHED AT BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.
- ++ 2X4 SO. PINE #2 N OR SPF #1/#2 FILLER TOP CHORD.
- +++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED 48" OC MAXIMUM.
- * 8/12 MAXIMUM PITCH.
- ** 2X8.25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699 FOR PIGGYBACK SPECIAL PLATE INFORMATION.

*** 6'0" MAXIMUM HEIGHT.

† W2X4 OR 3X6 TRULOX.

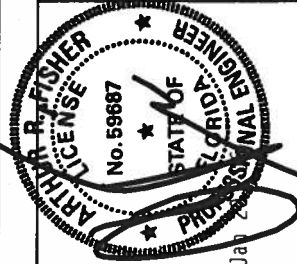
†† REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.

11 GAUGE (0.120")X1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF EACH TRUSS PLY. SEE DWG 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.



THIS DRAWING REPLACES DRAWING 884.080

TC LL	MAX 30 PSF	REF	TC - FILLER
TC DL	MAX 15 PSF	DATE	11/26/03
BC DL	MAX 10 PSF	DRWG	TCFILLER1103
BC LL	0 PSF	-ENG	SJP/KAR
TOT. LD.	MAX 55 PSF		
DUR. FAC.	1.15 OR 1.33		
SPACING	24.0"		



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 DONDREID DR., SUITE 200, MADISON, WI 53719) AND VTCA (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 DEVIATING 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/PD) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/A) ASTM A653 GRADE 40/60 (W/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY PER ANS/A3 OF TPI 1-2002 SECTION 10.02.2, ON THE INSIDE OF THE TRUSS. THE DESIGN OF THE TRUSS IS THE RESPONSIBILITY OF THE TRUSS DESIGNER. THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

BOTTOM CHORD FILLER DETAIL

* OPTIONAL INTERIOR OR CANTILEVER BEARING. MINIMUM PLATE SIZES (1X3 WAVE) MAY BE USED IF BEARING IS OMITTED. WEDGE OR VERTICAL MEMBER MUST COINCIDE WITH BEARING LOCATION.

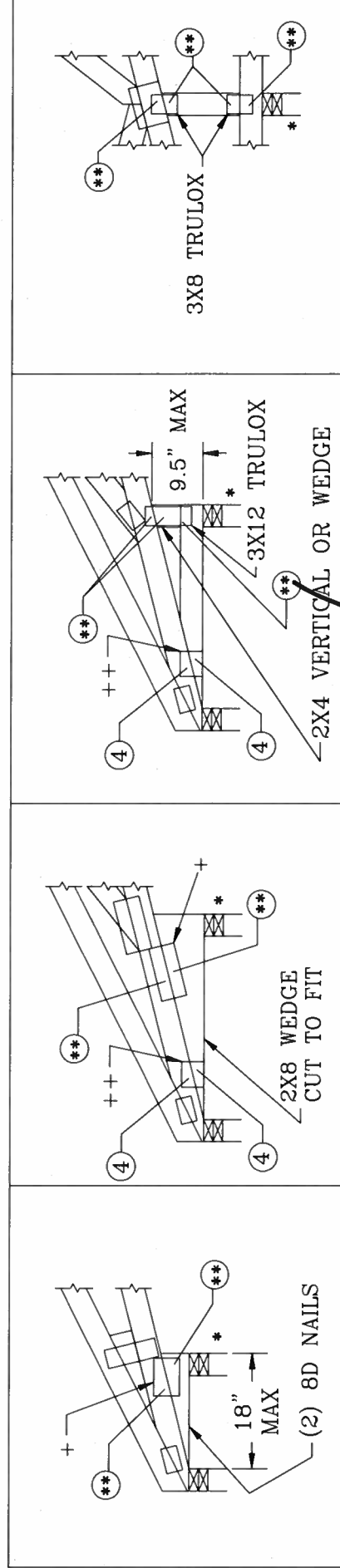
+ 3X4 WAVE OR 4X8 TRULOX
++ 2X4 WAVE OR 3X6 TRULOX

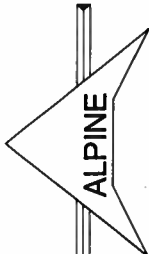
11 GAUGE (0.120")X1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF THE TRUSS. SEE DWG 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.

ALL TRULOX PLATES SHOWN ARE MINIMUMS. LARGER PLATES MAY BE REQUIRED TO ACCOMMODATE REQUIRED NAILS (**)

FILLER BOTTOM CHORD OR WEDGE SPECIES	MAXIMUM REACTION		MINIMUM BEARING AREA	** REQUIRED NAILS PER FACE WITH TRULOX PLATES					
	DOWNWARD	UPLIFT		1.00 D.O.L.	1.15 D.O.L.	1.25 D.O.L.	1.33 D.O.L.	1.60 D.O.L.	
DOUGLAS FIR-LARCH	3281#	1656#	1.5" X 3.5"	12	11	10	9	8	
HEM-FIR	2126#	1095#	1.5" X 3.5"	9	8	7	7	6	
SPRUCE-PINE-FIR	2231#	1192#	1.5" X 3.5"	10	9	8	8	6	
SOUTHERN PINE DENSE	3465#	1791#	1.5" X 3.5"	12	11	10	9	8	
SOUTHERN PINE	2966#	1492#	1.5" X 3.5"	10	9	8	8	7	
SOUTHERN PINE NON-DENSE	2520#	1343#	1.5" X 3.5"	9	8	7	7	6	





ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

THIS DRAWING REPLACES DRAWINGS A115 A115/R & 884.132

THIS DRAWING REPLACES DRAWINGS A115 A115/R & 884.132

ALPINE R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jan 1998

TC LL — PSF
TC DL — PSF
BC DL 10.0 PSF
BC LL — PSF
TOT. LD. — PSF
DUR. FAC. 1.0/1.15/1.25/1.33
SPACING 24.0"

REF BC FILLER
DATE 11/26/03
DRWG BCFILLER1103
-ENG DLJ/KAR

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS INSTITUTE, 1000 W. 10TH AVE., SUITE 100, MADISON, WI 53703, FOR SAFETY PRACTICES PRIOR TO ERECTING THESE STRUCTURES. 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 NDS) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/7664 (W/H/S/K) ASTM A653 GRADE 50 (50KSI) AND TYPICALLY 1/4" THICK. ALL TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THIS DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.