

DATE 09/01/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000024937

APPLICANT	WILLIAM FREEMAN	PHONE	386.758.4209
ADDRESS	161 NW MADISON STREET, #102	LAKE CITY	FL 32055
OWNER	NORTH FLORIDA LAUNDRIES - C. DAMPIER	PHONE	386.758.4209
ADDRESS	142 SW ARROWHEAD BEND DRIVE	LAKE CITY	FL 32024
CONTRACTOR	WILLIAM FREEMAN	PHONE	386.758.4209
LOCATION OF PROPERTY	9-W TO C-341,TL TO KICKLIGHTER,TL TO CANNON CREEK PLACE S.D TO ARROWHEAD BEND,TL AND IT'S THE 2ND LOT ON R.		
TYPE DEVELOPMENT	SFD/UTILITY	ESTIMATED COST OF CONSTRUCTION	90800.00
HEATED FLOOR AREA	1816.00	TOTAL AREA	2624.00
		HEIGHT	STORIES 1
FOUNDATION	CONC	WALLS	FRAMED
		ROOF PITCH	6'12
		FLOOR	CONC
LAND USE & ZONING	RSF-2	MAX. HEIGHT	35
Minimum Set Back Requirments:	STREET-FRONT	25.00	REAR 15.00
		SIDE	10.00
NO. EX.D.U.	0	FLOOD ZONE	XPP
		DEVELOPMENT PERMIT NO.	
PARCEL ID	24-4S-16-03114-138	SUBDIVISION	CANNON CREEK PLACE
LOT	38	BLOCK	PHASE
		UNIT	TOTAL ACRES 0.51

		CBC060026	<i>William H. Freeman</i>	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	06-0744-N	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
COMMENTS: NOC ON FILE. DRIVE NEEDS TO BE 5' OFF WEST PROPERTY LINE.PLAT REQUIRES 1ST. FLOOR TO BE @ 95.5'. ELEVEATION LETTER REQUIRED.				
			Check # or Cash	1248

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$	455.00	CERTIFICATION FEE \$	13.12	SURCHARGE FEE \$	13.12
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		556.24	
INSPECTORS OFFICE	<i>COO</i>		CLERKS OFFICE	<i>CH</i>	

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.

For Office Use Only Application # 0607-61 Date Received 7-24-06 By LH Permit # 24931
 Application Approved by - Zoning Official BLK Date 28.07.06 Plans Examiner OK JTH Date 7-28-06
 Flood Zone Xpert Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Dev.
 Comments Drive Needs to be 5' off of West property line Plat Requires 1st Floor Elevation to be at 75.5' Elevation Letter Required

Failon
 Applicants Name William Freeman Phone 758-4209
 Address 111 NW Madison St. #102, Lake City, FL 32055
 Owners Name Chris Dampier or Park Jones Phone 758-4209
 911 Address 111 SW Duckett Court, Lake City, FL 32024
 Contractors Name William Freeman Phone 758-4209
 Address 111 NW Madison St. #102 Lake City, FL 32055
 Fee Simple Owner Name & Address Chris Dampier - 110 SW Duckett Ct, L.C. 32006
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Mark Disosway, Lake City, FL
 Mortgage Lenders Name & Address _____

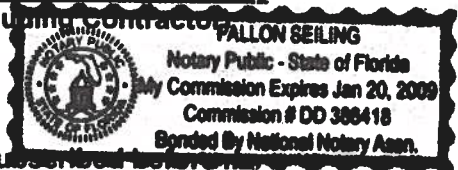
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 24-45-16-0314-138 Estimated Cost of Construction 144,000
 Subdivision Name Cannon Creek Place Lot 38 Block _____ Unit _____ Phase _____
 Driving Directions 90 W to Sister Welcome Rd, turn LEFT, turn left on Kicklighter Rd, and turn into Cannon Creek Pl, 3rd Rd on Left, 2nd Lot
 Type of Construction new construction Number of Existing Dwellings on Property 0 on right
 Total Acreage .51 Lot Size .51 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 30 Side 35 Side 35 Rear 75
 Total Building Height LESS THAN 30 Number of Stories 1 Heated Floor Area 1816 Roof Pitch 6:12
PORCH 62 GARAGE 438 TOTAL 2,024

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.

William Freeman
 Owner Builder or Agent (Including Contractor)
 STATE OF FLORIDA
 COUNTY OF COLUMBIA
 Sworn to (or affirmed) and subscribed before me
 this 21st day of July 2006.
 Personally known ✓ or Produced Identification not



William Freeman
 Contractor Signature
 Contractors License Number CBC 060026
 Competency Card Number _____
 NOTARY STAMP/SEAL
Fallon Seiling
 Notary Signature

1248

William H. Freeman Construction, Inc
161 NW Madison Street, Suite 102
Lake City, FL 32055
Phone 386-758-4209

October 18, 2007

Columbia County Building and Zoning Department
35 N. Hernando Street
P.O. Drawer 1529
Lake City, FL 32056-1529

RE: Extension
Permit No.: 000024937
Parcel ID No.: 24-4S-16-03114-138

Dear Mr. Kerce,

Please accept this letter as a request for an extension with regard to the above referenced permit and parcel number.

We appreciate your consideration and attention to this matter.

Best personal regards.

Sincerely,

A handwritten signature in cursive script, appearing to read "William H. Freeman".

William H. Freeman



STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0744-N

PART II - SITE PLAN

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

See
attached

Please have
agent sign
here before
releasing plan.

Notes: _____

releasing plan.

Thanks.

Site Plan submitted by: Jalson Seeling w/ Freeman

Signature

Agent

Title

Plan Approved ☒

Not Approved ☐

Date 8-24-06

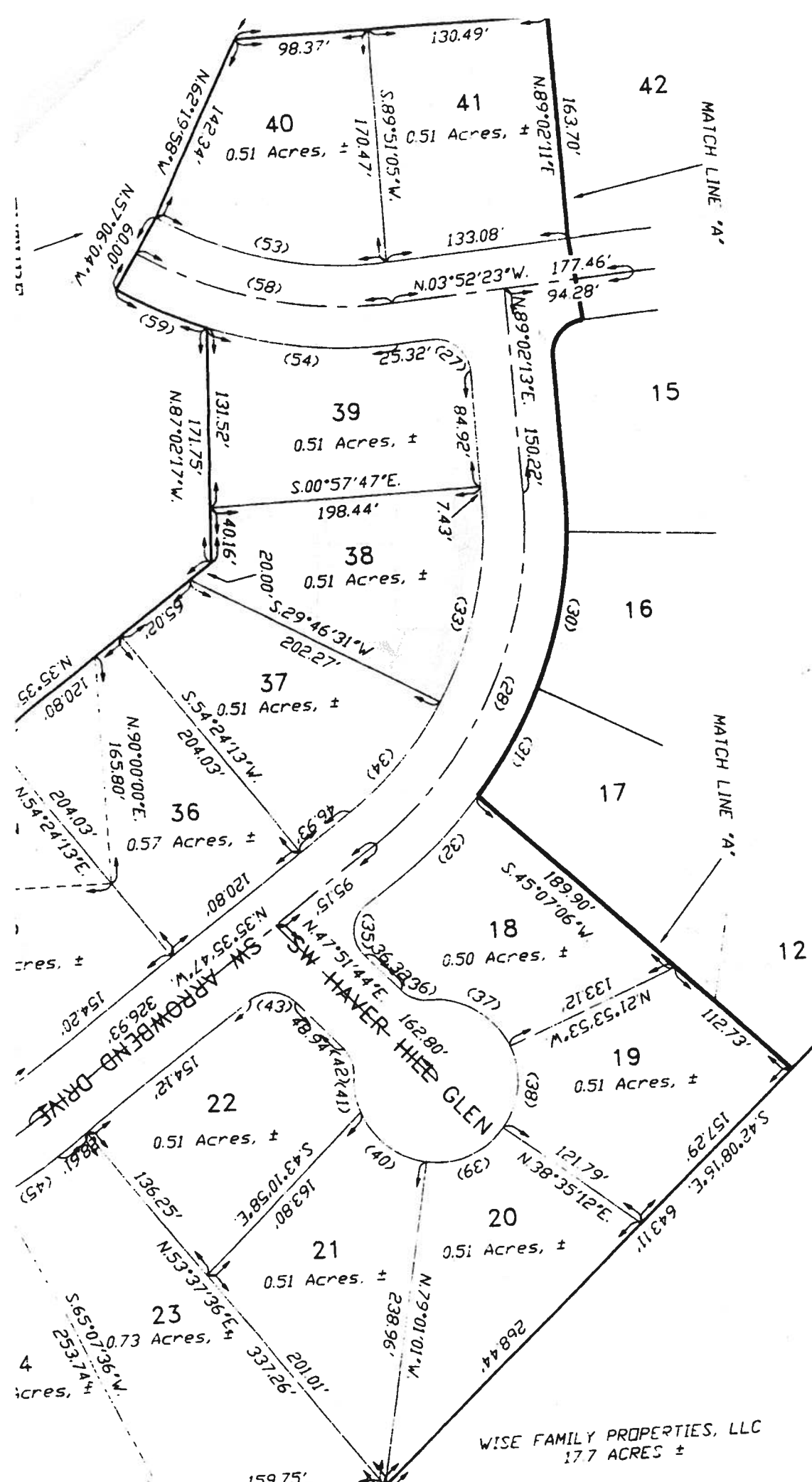
By Salbi Graddy, Enr

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

"CANNON CREEK PLAT"

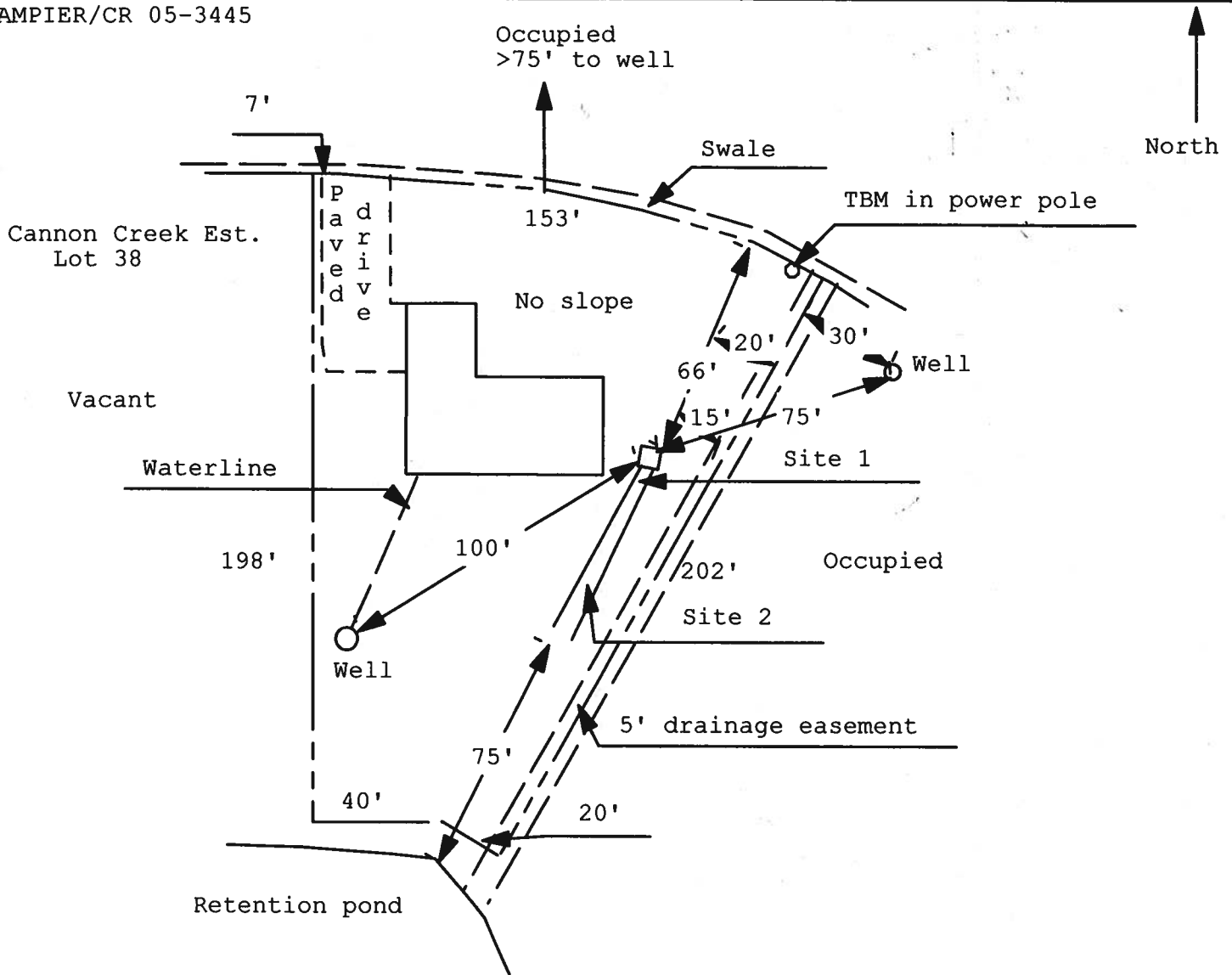
IN SECTION 24, TOWNSHIP 4 SOUTH, RANGE 17 WEST, COLUMBIA COUNTY, FLORIDA



**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

DAMPIER/CR 05-3445



1 inch = 50 feet

Site Plan Submitted By Paul L. [Signature] Date 3/28/06
 Plan Approved _____ Not Approved _____ Date _____

By _____ CPHU

Notes: _____

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT # _____
DATE PAID _____
FEE PAID \$ _____
RECEIPT # _____
CR # 05-3445

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Temporary/Experimental System
☐ Repair ☐ Abandonment ☐ Other (Specify) _____

APPLICANT: CHRISTOPHER DAMPIER

TELEPHONE: 386-754-0002

AGENT: CHRISTOPHER DAMPIER

MAILING ADDRESS: 350 SW MAIN STREET CITY: LAKE CITY STATE: FL ZIP: 32055

=====

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

=====

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: 38 BLOCK: _____ SUBDIVISION: CANNON CREEK ESTATES DATESUBD: _____

PROPERTY ID #: 24-4S-16-03114-138 [Section/Township/Range/Parcel] ZONING: _____

PROPERTY SIZE: 0.51 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: ☒ PRIVATE ☐ PUBLIC

PROPERTY STREET ADDRESS: 142 ARROWBEND DRIVE

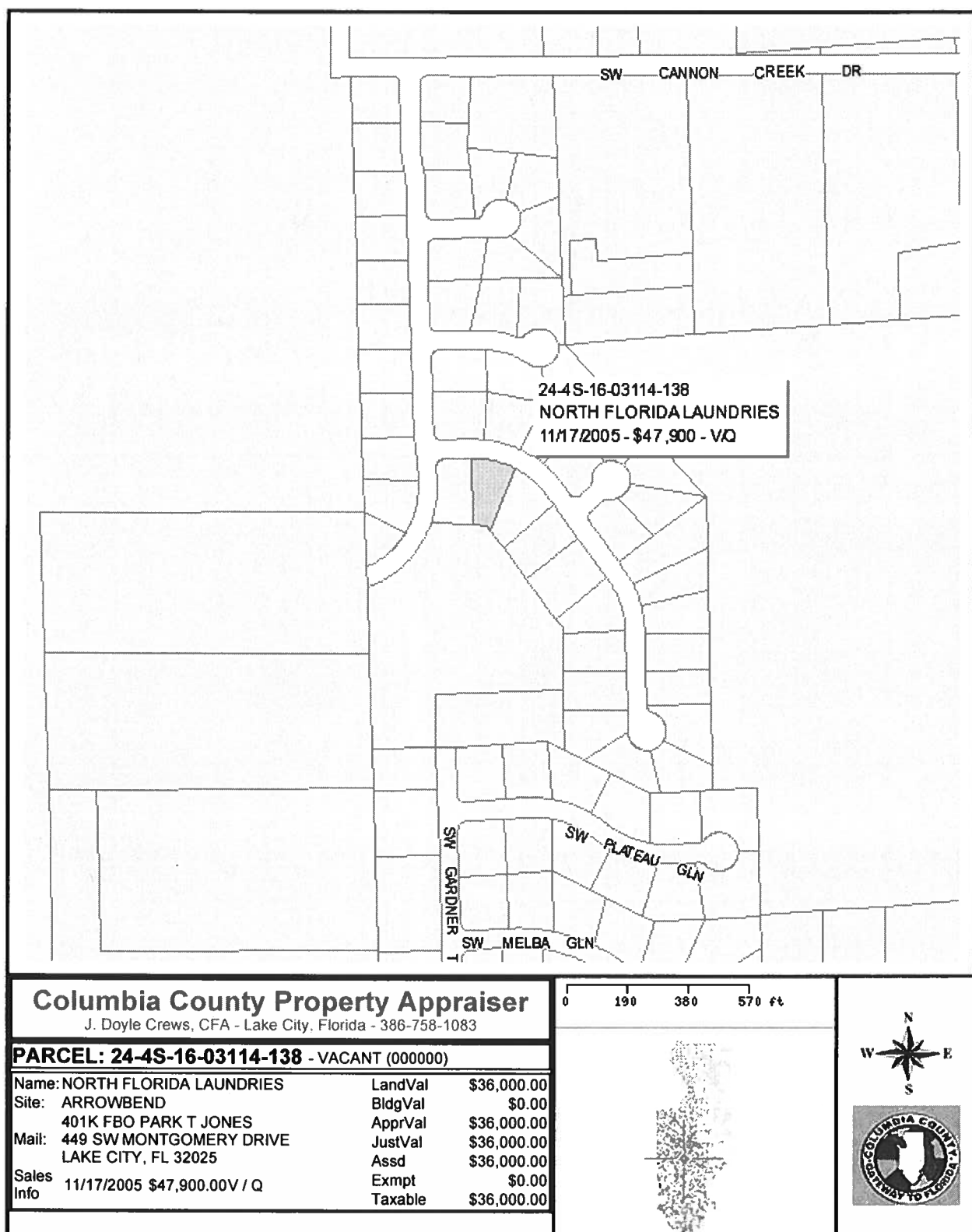
DIRECTIONS TO PROPERTY: STATE ROAD 47 SOUTH, TR ON COUNTY ROAD 242, TR ON ARROWHEAD, TL ON CANNON CREEK, TL ON GERALD CONNER BOULEVARD, TL ON ARROWBEND DRIVE, SECOND LOT ON RIGHT

BUILDING INFORMATION ☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	# Persons Served	Business Activity For Commercial Only
1	<u>HOUSE</u>	<u>3</u>	<u>1816</u>	<u>4</u>	_____
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____

[N] Garbage Grinders/Disposals [N] Spas/Hot Tubs [N] Floor/Equipment Drains
[N] Ultra-low Volume Flush Toilets [N] Other (Specify) _____

APPLICANT'S SIGNATURE: _____ DATE: _____



This information, GIS Map Updated: 6/19/2006, 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.

LYNCH WELL DRILLING, INC.

173 SW Tustenuggee Ave
Lake City, FL. 32025
Phone 386-752-6677
Fax 386-752-1477

Building Permit # _____ Owner's Name John Cady *wise Est.*

Well Depth _____ Ft. Casing Depth _____ Ft. Water Level _____ Ft.

Casing Size 4 inch Steel Pump Installation: Deep Well Submersible

Pump Make Aermotor Pump Model S20-100 HP 1

System Pressure (PSI) _____ On 30 Off 50 Average Pressure 40

Pumping System GPM at average pressure and pumping level 20 (GPM)

Tank Installation: Bladder / Galvanized Make Challenger
Model PC 244 Size 81

Tank Draw-down per cycle at system pressure 25.1 gallons

**I HEREBY VERIFY THAT THIS WATER WELL SYSTEM HAS BEEN
INSTALLED AS PER THE ABOVE INFORMATION.**

Linda Newcomb
Signature

2609
License Number

Linda Newcomb
Print Name

3-16-06
Date

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Cannon Creek Place Lot #38	Builder:	Owner
Address:		Permitting Office:	Columbia
City, State:	Lake City, FL 32055-0000	Permit Number:	
Owner:	Dampier / Jones	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: 26.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1816 ft ²	13. Heating systems	
7. Glass area & type	Single Pane Double Pane	a. Electric Heat Pump	Cap: 33.0 kBtu/hr
a. Clear glass, default U-factor	0.0 ft ² 203.0 ft ²		HSPF: 8.90
b. Default tint	0.0 ft ² 0.0 ft ²	b. N/A	
c. Labeled U or SHGC	0.0 ft ² 0.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 168.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1413.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT, CF,
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, 1816.0 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, 60.0 ft		
b. N/A			

Glass/Floor Area: 0.11

Total as-built points: 21946

Total base points: 27893

PASS

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

PREPARED BY: Mark E. Jones

DATE: March 2, 2006

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

OWNER/AGENT: _____

DATE: _____

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



BUILDING OFFICIAL: _____

DATE: _____

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, 32055-0000

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 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.7

The higher the score, the more efficient the home.

Dampier / Jones, , Lake City, FL, 32055-0000

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 26.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1816 ft ²		
7. Glass area & type	Single Pane Double Pane	13. Heating systems	
a. Clear - single pane	0.0 ft ² 203.0 ft ²	a. Electric Heat Pump	Cap: 33.0 kBtu/hr
b. Clear - double pane	0.0 ft ² 0.0 ft ²		HSPF: 8.90
c. Tint/other SHGC - single pane	0.0 ft ² 0.0 ft ²	b. N/A	
d. Tint/other SHGC - double pane		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 168.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1413.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT, CF,
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, 1816.0 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, 60.0 ft		
b. N/A			

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

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



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

EnergyGauge® (Version: FLRCPB v3.30)

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, 32055-0000

PERMIT #:

BASE					AS-BUILT						
WATER HEATING											
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit	= Total Multiplier
3		2746.00		8238.0	50.0	0.92	3		1.00	2626.61	1.00
					As-Built Total:					7879.8	

CODE COMPLIANCE STATUS											
BASE					AS-BUILT						
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Total Points
10605		9050		8238		27893	7111		6955		21946

PASS



SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, 32055-0000

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	1816.0	20.04	6550.7	Double, Clear	SW	1.5	9.0	55.0	40.16	0.96	2126.7
				Double, Clear	NW	1.5	9.0	36.0	25.97	0.97	910.9
				Double, Clear	NE	1.5	9.0	66.0	29.56	0.97	1898.1
				Double, Clear	SE	1.5	9.0	46.0	42.75	0.96	1893.2
				As-Built Total:				203.0			6828.8
WALL TYPES Area X BSPM = Points				Type	R-Value			Area X	SPM	=	Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0			1413.0	1.50		2119.5
Exterior	1413.0	1.70	2402.1								
Base Total:				As-Built Total:				1413.0			2119.5
DOOR TYPES Area X BSPM = Points				Type				Area X	SPM	=	Points
Adjacent	0.0	0.00	0.0	Exterior Insulated				36.0	4.10		147.6
Exterior	72.0	6.10	439.2	Exterior Insulated				36.0	4.10		147.6
Base Total:				As-Built Total:				72.0			295.2
CEILING TYPES Area X BSPM = Points				Type	R-Value			Area X	SPM X	SCM =	Points
Under Attic	1816.0	1.73	3141.7	Under Attic	30.0			1816.0	1.73 X 1.00		3141.7
Base Total:				As-Built Total:				1816.0			3141.7
FLOOR TYPES Area X BSPM = Points				Type	R-Value			Area X	SPM	=	Points
Slab	168.0(p)	-37.0	-6216.0	Slab-On-Grade Edge Insulation	0.0			168.0(p)	-41.20		-6921.6
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				168.0			-6921.6
INFILTRATION Area X BSPM = Points								Area X	SPM	=	Points
	1816.0	10.21	18541.4					1816.0	10.21		18541.4

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

ADDRESS: , Lake City, FL, 32055-0000

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 24859.0				Summer As-Built Points: 24005.0						
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component	X	Cap Ratio	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Cooling Points
						(DM x DSM x AHU)				
24859.0		0.4266	10604.9	24005.0	1.000	(1.090 x 1.147 x 1.00)	0.263	0.902	7111.0	
				24005.0	1.00	1.250	0.263	0.902	7111.0	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, 32055-0000

PERMIT #:

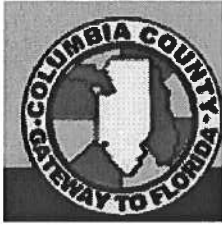
BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	1816.0	12.74	4164.5	Double, Clear	SW	1.5	9.0	55.0	16.74	1.02	939.6
				Double, Clear	NW	1.5	9.0	36.0	24.30	1.00	874.7
				Double, Clear	NE	1.5	9.0	66.0	23.57	1.00	1556.7
				Double, Clear	SE	1.5	9.0	46.0	14.71	1.04	701.4
				As-Built Total:				203.0		4072.4	
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1413.0	3.40	4804.2		
Exterior	1413.0	3.70	5228.1								
Base Total:				As-Built Total:		1413.0		4804.2			
DOOR TYPES Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated			36.0	8.40	302.4		
Exterior	72.0	12.30	885.6	Exterior Insulated			36.0	8.40	302.4		
Base Total:				As-Built Total:		72.0		604.8			
CEILING TYPESArea X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1816.0	2.05	3722.8	Under Attic	30.0		1816.0	2.05 X 1.00	3722.8		
Base Total:				As-Built Total:		1816.0		3722.8			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	168.0(p)	8.9	1495.2	Slab-On-Grade Edge Insulation	0.0		168.0(p)	18.80	3158.4		
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:		168.0		3158.4			
INFILTRATION Area X BWPM = Points						Area X WPM = Points					
	1816.0	-0.59	-1071.4			1816.0		-0.59	-1071.4		

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

ADDRESS: , Lake City, FL, 32055-0000

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		14424.7		Winter As-Built Points:			15291.1			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X	Cap Ratio	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points
				(DM x DSM x AHU)						
14424.7		0.6274	9050.1	15291.1	1.000	(1.069 x 1.169 x 1.00)	0.383	0.950		6955.4
				15291.1	1.00	1.250	0.383	0.950		6955.4



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

Reference to a building permit application Number: **0607-61**
Contractor William Freeman Owner Chris Dampier & Park Jones

On the date of July 25, 2006 application 0607-61 and plans for construction of single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0607-61 and when making reference to this application.

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

To help ensure compliance with the Florida Residential Code 2004 the comments below need to be addressed on the plans.

1. The floor plans show two doors within the garage. One door allows access into the residence from the garage, this door shall comply with the FRC-2004 Sections R309.1 Opening protection: Openings from a private

garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

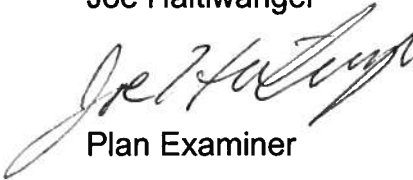
The second door provides access into a mechanical closet which houses the HVAC unit along with the water heater. Please show one of the two methods to comply with sections R309.1.1 of the Florida Residential Code. *Method one:* Duct penetration: Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage. *Method two:* The door which encloses this mechanical closet shall meet the requirements of section R309.1

- 2.** Please verify that the master garden tub area glazed area will be in compliance with the FRC-2004 section R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of

glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed.

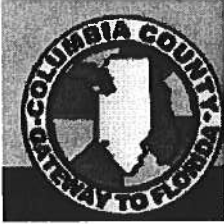
- 3.** The electrical plan shows the location of the electrical service entrance, please indicate on the electrical plan that an overcurrent protection device will be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Joe Haltiwanger

A handwritten signature in black ink, appearing to read "Joe Haltiwanger", written over the printed name and title.

Plan Examiner

Columbia County



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

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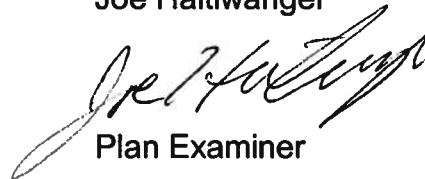
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A handwritten signature in black ink, appearing to read "Joe Haltiwanger", written over the printed name and title.

Plan Examiner

Columbia County

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

- a) All sides
- b) Roof pitch
- c) Overhang dimensions and detail with attic ventilation
- d) Location, size and height above roof of chimneys
- e) Location and size of skylights
- f) Building height
- e) Number of stories

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 (accessible 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 FI. 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 retardant (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)

N/A

☐ **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 (termicide or alternative method)
11. Slab on grade
 - a. Vapor retardant (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
- g) Arc Fault Circuits (AFCI) in bedrooms

☐ **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 Required Before Any Inspections Will Be Done**

☐ **Private Potable Water**

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

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

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

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

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

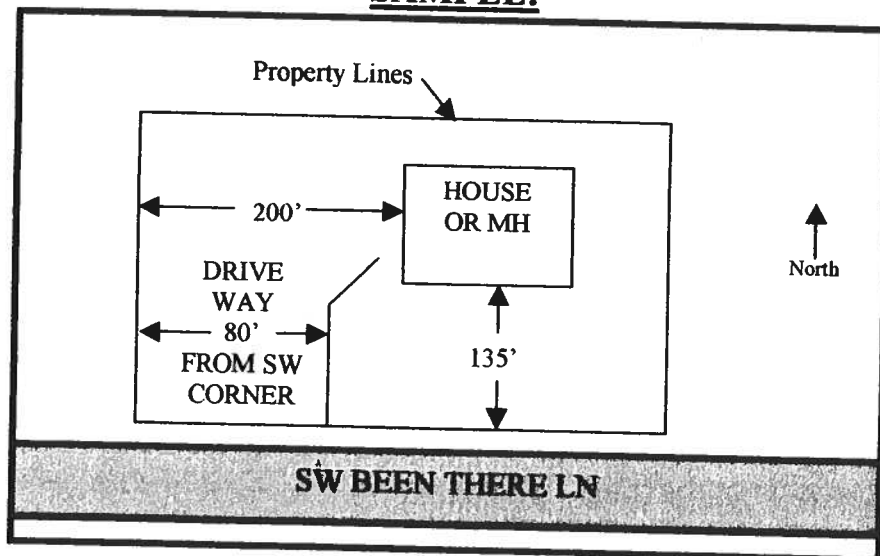
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

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

THE REQUESTER WILL NEED THE FOLLOWING:

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

SAMPLE:



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

Heating and Air Conditioning Economic Analysis

For Future / Existing Home Of

Chris Dampier

Lake City, FL

Conducted By

Country Comfort Heating & A. C.
278 S. W. Summers Lane
Lake City, FL 32025
386-752-5841

Wrightsoft Corporation

Note: Actual costs and savings may differ due to weather, operating conditions, maintenance, and construction.



Project Summary

Entire House

Country Comfort Heating & A. C.

Job: Dampier
Date: 3-3-06
By: AW

278 S. W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

Project Information

For: Chris Dampier
Lake City, FL

Notes: New Home

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db	25 °F
Inside db	70 °F
Design TD	45 °F

Summer Design Conditions

Outside db	97 °F
Inside db	78 °F
Design TD	19 °F
Daily range	M
Relative humidity	50 %
Moisture difference	30 gr/lb

Heating Summary

Structure	27176 Btuh
Ducts	1359 cfm
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	28535 Btuh

Sensible Cooling Equipment Load Sizing

Structure	23386 Btuh
Ducts	2339 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	1.02
Equipment sensible load	26239 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	1848	1848
Volume (ft³)	17670	17670
Air changes/hour	1.00	0.40
Equiv. AVF (cfm)	295	118

Latent Cooling Equipment Load Sizing

Structure	6305 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	6305 Btuh

Equipment total load	32544 Btuh
Req. total capacity at 0.70 SHR	3.1 ton

Heating Equipment Summary

Make AmStd
Trade Heritage 12
Model 2A6H2036A1

Efficiency	8.9 HSPF
Heating input	
Heating output	33200 Btuh @ 47°F
Temperature rise	25 °F
Actual air flow	1231 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	

Cooling Equipment Summary

Make AmStd
Trade Heritage 12
Cond 2A6H2036A1
Coil TWE040E13

Efficiency	13 SEER
Sensible cooling	26950 Btuh
Latent cooling	11550 Btuh
Total cooling	38500 Btuh
Actual air flow	1231 cfm
Air flow factor	0.048 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.80

Bold/italic values have been manually overridden

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





**Short Form
Entire House
Country Comfort Heating & A. C.**

Job: Dampier
Date: 3-3-06
By: AW

278 S. W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

Project Information

For: Chris Dampier
Lake City, FL

Design Information

	Htg	Clg		Infiltration
Outside db (°F)	25	97	Method	Simplified
Inside db (°F)	70	78	Construction quality	Average
Design TD (°F)	45	19	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	30		

HEATING EQUIPMENT

Make AmStd
Trade Heritage 12
Model 2A6H2036A1

Efficiency 8.9 HSPF
Heating input
Heating output 33200 Btuh @ 47°F
Temperature rise 25 °F
Actual air flow 1231 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0.00 in H2O
Space thermostat

COOLING EQUIPMENT

Make AmStd
Trade Heritage 12
Cond 2A6H2036A1
Coil TWE040E13

Efficiency 13 SEER
Sensible cooling 26950 Btuh
Latent cooling 11550 Btuh
Total cooling 38500 Btuh
Actual air flow 1231 cfm
Air flow factor 0.048 cfm/Btuh
Static pressure 0.00 in H2O
Load sensible heat ratio 0.80

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BR 2	200	8470	3748	365	179
Bath 2	36	399	136	17	6
BR 3	181	1378	1197	59	57
Great Room	408	636	2617	27	125
Utility Rm	108	2923	5034	126	241
Dining Rm	117	259	1523	11	73
Kitchen	230	359	5969	15	286
3/4 Bath	48	75	75	3	4
Master BR	280	7605	3674	328	176
Master Bath	160	5005	1326	216	63
WIC 2	40	473	158	20	8
WIC 1	40	953	269	41	13

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Entire House	d	1848	28535	25725	1231	1231
Other equip loads			0	0		
Equip. @ 1.02 RSM				26239		
Latent cooling				6305		
TOTALS		1848	28535	32544	1231	1231

Bold/italic values have been manually overridden

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Right-J Worksheet Entire House Country Comfort Heating & A. C.

Job: Dampier
Date: 3-3-06
By: AW

278 S. W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

MANUAL J: 7th Ed.																				
1 Name of room					Entire House				BR 2				Bath 2				BR 3			
2 Length of exposed wall					110.0 ft				30.0 ft				5.0 ft				16.0 ft			
3 Room dimensions					1.0 x 200.0 ft				1.0 x 36.0 ft				1.0 x 181.0 ft							
4 Ceilings					9.6 ft heat/cool				8.0 ft heat/cool				8.0 ft heat/cool				8.0 ft heat/cool			
TYPE OF EXPOSURE		CST NO.	HTg	HTM Ctg	Area (ft²)	Load (Btuh)		Area (ft²)	Load (Btuh)		Area (ft²)	Load (Btuh)		Area (ft²)	Load (Btuh)					
						HTg	Ctg		HTg	Ctg		HTg	Ctg		HTg	Ctg				
5	Gross Exposed walls and partitions	a 12D2	3.6	1.8	910	****	****	240	****	****	40	****	****	128	****	****				
		b	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****				
		c	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****				
		d	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****				
		e	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****				
		f	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****				
6	Windows and glass doors Heating	a 3C0	32.6	**	89	2887	****	30	979	****	0	0	****	0	0	****				
		b	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****				
		c	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****				
		d	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****				
		e	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****				
		f	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****				
7	Windows and glass doors Cooling	North		15.6	24	****	374	2	****	31	0	****	0	0	****	0				
		NE/NW		0.0	0	****	0	0	****	0	0	****	0	0	****	0				
		E/W		45.6	65	****	2942	28	****	1278	0	****	0	0	****	0				
		SE/SW		0.0	0	****	0	0	****	0	0	****	0	0	****	0				
		South		0.0	0	****	0	0	****	0	0	****	0	0	****	0				
		Horz		0.0	0	****	0	0	****	0	0	****	0	0	****	0				
8	Other doors	a	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
9	Net exposed walls and partitions	a 12D2	3.6	1.8	822	2957	1485	210	756	380	40	144	72	128	461	231				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		d	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		f	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
10	Ceilings	a 16G0	1.5	1.4	1848	2744	2622	200	297	284	36	53	51	181	269	257				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		d	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		f	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
11	Floors (Note: room perimeter is displ. for slab floors)	a 22A0	38.5	0.0	110	4010	0	30	1094	0	5	182	0	16	583	0				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		d	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
		f	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0				
12	Infiltration Ventilation	a	165	27.8	89	14578	2462	30	4942	835	0	0	0	0	0	0				
						0	0		0	0	0	0	0	0	0	0				
13	Subtotal loss=6+8..+11+12				****	27176	****	****	8067	****	****	380	****	****	1313	****				
	Less external heating				****	0	****	****	0	****	****	0	****	****	0	****				
	Less transfer				****	0	****	****	0	****	****	0	****	****	0	****				
	Heating redistribution				****	0	****	****	0	****	****	0	****	****	0	****				
14	Duct loss				5%	1359	****	5%	403	****	5%	19	****	5%	66	****				
15	Total loss = 13+14				****	28535	****	****	8470	****	****	399	****	****	1378	****				
16	Int. gains: People @	300			17	****	5100	2	****	600	0	****	0	2	****	600				
	Appl. @	1200			7	****	8400	0	****	0	0	****	0	0	****	0				
17	Subtot RSH gain=7+8..+12+16				****	****	23386	****	****	3407	****	123	****	****	****	1088				
	Less external cooling				****	****	0	****	****	0	****	****	0	****	****	0				
	Less transfer				****	****	0	****	****	0	****	****	0	****	****	0				
	Cooling redistribution				****	****	0	****	****	0	****	****	0	****	****	0				
18	Duct gain				10%	****	2339	10%	****	341	10%	****	12	10%	****	109				
19	Total RSH gain=(17+18)*PLF				1.00	****	25725	1.00	****	3748	1.00	****	136	1.00	****	1197				
20	Air required (cfm)					1231	1231		365	179		17		59		57				

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Page 1



Right-J Worksheet Entire House Country Comfort Heating & A. C.

Job: Dampier
Date: 3-3-06
By: AW

278 S. W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

MANUAL J: 7th Ed.															
1	Name of room			Great Room			Utility Rm			Dining Rm			Kitchen		
2	Length of exposed wall			0.0 ft			12.0 ft			1.0 ft			0.0 ft		
3	Room dimensions			1.0 x 408.0 ft			12.0 x 9.0 ft			13.0 x 9.0 ft			1.0 x 230.0 ft		
4	Ceilings			12.0 ft heat/cool			8.0 ft heat/cool			10.0 ft heat/cool			10.0 ft heat/cool		
	TYPE OF EXPOSURE	CST NO.	HTM Htg Ctg	Area (ft²)	Load (Btuh) Htg Ctg		Area (ft²)	Load (Btuh) Htg Ctg		Area (ft²)	Load (Btuh) Htg Ctg		Area (ft²)	Load (Btuh) Htg Ctg	
5	Gross Exposed walls and partitions	a 12D2	3.6 1.8	0	0	0	96	0	0	10	0	0	0	0	0
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Windows and glass doors Heating	a 3C0	32.6 **	0	0	0	10	310	0	0	0	0	0	0	0
		b	0.0 **	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 **	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 **	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 **	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 **	0	0	0	0	0	0	0	0	0	0	0	0
7	Windows and glass doors Cooling	North	15.6	0	0	0	1	0	16	0	0	0	0	0	0
		NE/NW	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		E/W	45.6	0	0	0	8	0	386	0	0	0	0	0	0
		SE/SW	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		South	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		Horz	0.0	0	0	0	0	0	0	0	0	0	0	0	0
8	Other doors	a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		b	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0	0	0	0	0	0	0	0	0	0	0	0	0
9	Net exposed walls and partitions	a 12D2	3.6 1.8	0	0	0	87	311	156	10	36	18	0	0	0
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
10	Ceilings	a 16G0	1.5 1.4	408	606	579	108	160	153	117	174	166	230	342	326
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
11	Floors (Note: room perimeter is displ. for slab floors)	a 22A0	36.5 0.0	0	0	0	12	437	0	1	36	0	0	0	0
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
12	Infiltration Ventilation	a	165 27.8	0	0	0	10	1565	264	0	0	0	0	0	0
13	Subtotal loss=6+8.+11+12			0	606	0	0	2784	0	0	246	0	0	342	0
	Less external heating			0	0	0	0	0	0	0	0	0	0	0	0
	Less transfer			0	0	0	0	0	0	0	0	0	0	0	0
	Heating redistribution			0	0	0	0	0	0	0	0	0	0	0	0
14	Duct loss		5%	30	0	0	5%	139	0	5%	12	0	5%	17	0
15	Total loss = 13+14			0	636	0	0	2923	0	0	259	0	0	359	0
16	Int. gains: People @	300	6	0	1800	0	0	0	4	0	1200	1	0	300	0
	Appl. @	1200	0	0	0	3	0	3600	0	0	0	4	0	4800	0
17	Subtot RSH gain=7+8.+12+16			0	2379	0	0	4576	0	0	1384	0	0	5426	0
	Less external cooling			0	0	0	0	0	0	0	0	0	0	0	0
	Less transfer			0	0	0	0	0	0	0	0	0	0	0	0
	Cooling redistribution			0	0	0	0	0	0	0	0	0	0	0	0
18	Duct gain		10%	238	0	10%	458	0	10%	138	0	10%	543	0	0
19	Total RSH gain=(17+18)*PLF		1.00	2617	0	1.00	5034	0	1.00	1523	0	1.00	5969	0	0
20	Air required (cfm)			27	125	0	126	241	11	73	15	286	0	0	0

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Right-J Worksheet

Entire House

Country Comfort Heating & A. C.

Job: Dampier
Date: 3-3-06
By: AW

278 S. W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

MANUAL J: 7th Ed.															
1	Name of room			3/4 Bath			Master BR			Master Bath			WIC 2		
2	Length of exposed wall			0.0 ft			14.0 ft			13.0 ft			6.0 ft		
3	Room dimensions			6.0 x 8.0 ft			14.0 x 20.0 ft			1.0 x 160.0 ft			1.0 x 40.0 ft		
4	Ceilings			8.0 ft heat/cool			10.0 ft heat/cool			8.0 ft heat/cool			8.0 ft heat/cool		
	TYPE OF EXPOSURE	CST NO.	HTM Htg Ctg	Area (ft²)	Load (Btuh) Htg Ctg		Area (ft²)	Load (Btuh) Htg Ctg		Area (ft²)	Load (Btuh) Htg Ctg		Area (ft²)	Load (Btuh) Htg Ctg	
5	Gross Exposed walls and partitions	a 12D2	3.6 1.8	0	****	****	140	****	****	104	****	****	48	****	****
		b	0.0 0.0	0	****	****	0	****	****	0	****	****	0	****	****
		c	0.0 0.0	0	****	****	0	****	****	0	****	****	0	****	****
		d	0.0 0.0	0	****	****	0	****	****	0	****	****	0	****	****
		e	0.0 0.0	0	****	****	0	****	****	0	****	****	0	****	****
		f	0.0 0.0	0	****	****	0	****	****	0	****	****	0	****	****
6	Windows and glass doors Heating	a 3C0	32.6 **	0	0	****	30	979	****	19	620	****	0	0	****
		b	0.0 **	0	0	****	0	0	****	0	0	****	0	0	****
		c	0.0 **	0	0	****	0	0	****	0	0	****	0	0	****
		d	0.0 **	0	0	****	0	0	****	0	0	****	0	0	****
		e	0.0 **	0	0	****	0	0	****	0	0	****	0	0	****
		f	0.0 **	0	0	****	0	0	****	0	0	****	0	0	****
7	Windows and glass doors Cooling	North NE/NW		15.6	0	****	2	****	31	19	****	296	0	****	0
		E/W		0.0	0	****	0	****	0	0	****	0	0	****	0
		SE/SW		45.6	0	****	28	****	1278	0	****	0	0	****	0
		South		0.0	0	****	0	****	0	0	****	0	0	****	0
		Horz		0.0	0	****	0	****	0	0	****	0	0	****	0
8	Other doors	a	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
9	Net exposed walls and partitions	a 12D2	3.6 1.8	0	0	0	110	396	199	85	306	154	48	173	87
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
10	Ceilings	a 16G0	1.5 1.4	48	71	68	280	416	397	160	238	227	40	59	57
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
11	Floors (Note: room perimeter is displ. for slab floors)	a 22A0	36.5 0.0	0	0	0	14	510	0	13	474	0	6	219	0
		b	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0 0.0	0	0	0	0	0	0	0	0	0	0	0	0
12	Infiltration Ventilation	a	165 27.8	0	0	0	30	4942	835	19	3130	529	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0
13	Subtotal loss=6+8..+11+12			****	71	****	****	7242	****	****	4767	****	****	451	****
	Less external heating			****	0	****	****	0	****	****	0	****	****	0	****
	Less transfer			****	0	****	****	0	****	****	0	****	****	0	****
	Heating redistribution			****	0	****	****	0	****	****	0	****	****	0	****
14	Duct loss			5%	4	****	5%	362	****	5%	238	****	5%	23	****
15	Total loss = 13+14			****	75	****	****	7605	****	****	5005	****	****	473	****
16	Int. gains: People @	300	0	****	0	****	2	****	600	0	****	0	****	0	****
	Appl. @	1200	0	****	0	****	0	****	0	0	****	0	****	0	****
17	Subtot RSH gain=7+8..+12+16			****	68	****	****	3340	****	****	1206	****	****	144	****
	Less external cooling			****	0	****	****	0	****	****	0	****	****	0	****
	Less transfer			****	0	****	****	0	****	****	0	****	****	0	****
	Cooling redistribution			****	0	****	****	0	****	****	0	****	****	0	****
18	Duct gain			10%	7	****	10%	334	****	10%	121	****	10%	14	****
19	Total RSH gain=(17+18)*PLF			1.00	75	****	1.00	3674	****	1.00	1326	****	1.00	158	****
20	Air required (cfm)				3			328			216			20	

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2006-Mar-03 13:29:39
Page 3



Right-J Worksheet

Entire House

Country Comfort Heating & A. C.

Job: Dampier
Date: 3-3-06
By: AW

278 S. W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

MANUAL J: 7th Ed.															
1 Name of room		2 Length of exposed wall		3 Room dimensions		4 Ceilings		WIC I 13.0 ft 1.0 x 40.0 ft 8.0 ft heat/cool							
TYPE OF EXPOSURE		CST NO.	HTM	HTM	Area (ft²)	Load (Btuh)	Area	Htg	Cig	Area	Htg	Cig	Area	Htg	Cig
			Htg	Cig		Htg									
5	Gross Exposed walls and partitions	a 12D2	3.6	1.8	104	****		****	****		****	****		****	****
	b		0.0	0.0	0	****		****	****		****	****		****	****
	c		0.0	0.0	0	****		****	****		****	****		****	****
	d		0.0	0.0	0	****		****	****		****	****		****	****
	e		0.0	0.0	0	****		****	****		****	****		****	****
	f		0.0	0.0	0	****		****	****		****	****		****	****
6	Windows and glass doors Heating	a 3C0	32.6	**	0	0	****		****		****	****		****	****
	b		0.0	**	0	0	****		****		****	****		****	****
	c		0.0	**	0	0	****		****		****	****		****	****
	d		0.0	**	0	0	****		****		****	****		****	****
	e		0.0	**	0	0	****		****		****	****		****	****
	f		0.0	**	0	0	****		****		****	****		****	****
7	Windows and glass doors Cooling	North	15.6	0	0	****		****	****		****	****		****	****
	NE/NW		0.0	0	0	****		****	****		****	****		****	****
	E/W		45.6	0	0	****		****	****		****	****		****	****
	SE/SW		0.0	0	0	****		****	****		****	****		****	****
	South		0.0	0	0	****		****	****		****	****		****	****
	Horz		0.0	0	0	****		****	****		****	****		****	****
8	Other doors	a	0.0	0.0	0	0	0								
	b		0.0	0.0	0	0	0								
	c		0.0	0.0	0	0	0								
9	Net exposed walls and partitions	a 12D2	3.6	1.8	104	374	188								
	b		0.0	0.0	0	0	0								
	c		0.0	0.0	0	0	0								
	d		0.0	0.0	0	0	0								
	e		0.0	0.0	0	0	0								
	f		0.0	0.0	0	0	0								
10	Ceilings	a 16G0	1.5	1.4	40	59	57								
	b		0.0	0.0	0	0	0								
	c		0.0	0.0	0	0	0								
	d		0.0	0.0	0	0	0								
	e		0.0	0.0	0	0	0								
	f		0.0	0.0	0	0	0								
11	Floors (Note: room perimeter is displ. for slab floors)	a 22A0	36.5	0.0	13	474	0								
	b		0.0	0.0	0	0	0								
	c		0.0	0.0	0	0	0								
	d		0.0	0.0	0	0	0								
	e		0.0	0.0	0	0	0								
	f		0.0	0.0	0	0	0								
12	Infiltration Ventilation	a	165	27.8	0	0	0								
13	Subtotal loss=6+8..+11+12				****	908	****	****	****	****	****	****	****	****	****
	Less external heating				****	0	****	****	****	****	****	****	****	****	****
	Less transfer				****	0	****	****	****	****	****	****	****	****	****
	Heating redistribution				****	0	****	****	****	****	****	****	****	****	****
14	Duct loss				5%	45	****	****	****	****	****	****	****	****	****
15	Total loss = 13+14				****	953	****	****	****	****	****	****	****	****	****
16	Int. gains: People @	300	0	****	0	0	****	****	****	****	****	****	****	****	****
	Appl. @	1200	0	****	0	0	****	****	****	****	****	****	****	****	****
17	Subtot RSH gain=7+8..+12+16		****	****	****	245	****	****	****	****	****	****	****	****	****
	Less external cooling		****	****	****	0	****	****	****	****	****	****	****	****	****
	Less transfer		****	****	****	0	****	****	****	****	****	****	****	****	****
	Cooling redistribution		****	****	****	0	****	****	****	****	****	****	****	****	****
18	Duct gain		10%	****	****	24	****	****	****	****	****	****	****	****	****
19	Total RSH gain=(17+18)*PLF		1.00	****	****	269	****	****	****	****	****	****	****	****	****
20	Air required (cfm)					41									

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



wrightsoft Right-Suite Residential 5.9.51 RSR26315
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2006-Mar-03 13:29:39
Page 4



AAMA/NWDA 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 Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWDA 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' 0-5/8" high

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

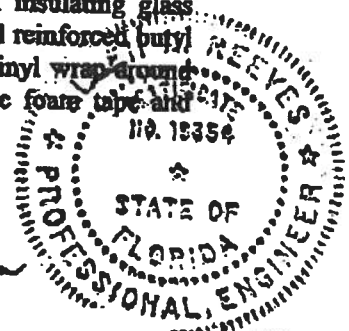
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

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

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

Allen G. Reeves
1 APRIL 2002





**AAMA/NWWDA 101/LS.2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

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

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

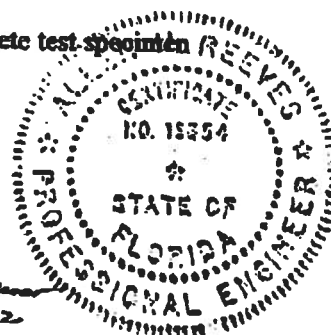
Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.


Mark A. Hess, Technician

MAH:nib


1 APRIL 2002



Test Specimen Description: (Continued)

Weatherstripping:

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

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

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

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

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal cam lock with keeper		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



Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

The results are tabulated as follows:

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

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

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
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 APR 16 2002



Test Specimen Description: (Continued)

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

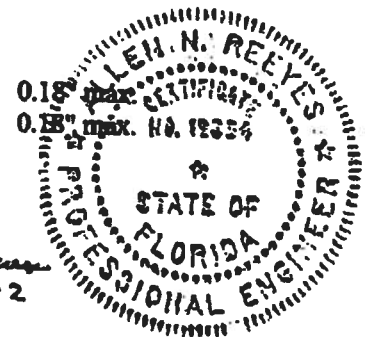
Optional Performance

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

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

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

Allen N. Reeves
1 APRIL 2002



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

For ARCHITECTURAL TESTING, INC:


Mark A. Hess
Technician

MAH:nlb
01-41134.01

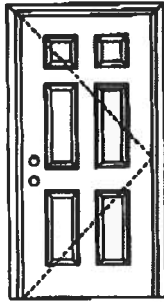

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002



X

Opaque Inswing Unit

COP-WL-JH4101-02

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

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



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

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

Design Pressure
+66.0/-66.0

Wind/water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED.

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

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

Flush



Arch Top 3-panel



3-panel



6-panel



New England 4-panel



Eyebrow 4-panel



8-panel



9-panel



15-panel



5-panel



5-panel with scroll



Eyebrow 5-panel



Eyebrow 5-panel with scroll

Johnson
EntrySystems

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



Exclusively from

Masonite
Masonite International Corporation

X

Opaque Inswing Unit

COP WL-JH4101-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

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

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

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

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

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

COMPANY NAME
CITY, STATE

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

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



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

2

Johnson
EntrySystems

June 17, 2002

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

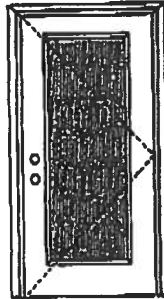


Exclusively from

Masonite
Masonite International Corporation

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

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

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

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



Test Data Review Certificate #3026447A and COP/Tint Report Validation Matrix #3026447A-001 provide additional information - available from the ITSAWH website (www.itsa-wh.com), the Masonite website (www.masonite.com) or the Masonite technical center.

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:



100 Series



133, 135 Series



136 Series



680 Series



822 Series

1/2 GLASS:



105 Series*



108, 100 Series*



120 Series*



200 Series*



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



107 Series*



108 Series



204 Series

*This glass kit may also be used to the following door styles: 6-panel 5-panel with screen Eyebrow 5-panel Eyebrow 5-panel with screen.

Johnson
EntrySystems

June 17, 2002
For continuing progress of product development, please specifications, design and product details subject to change without notice.



Exclusively from

Masonite
Masonite International Corporation

X

Glazed Inswing Unit

COP-WL-JH4141-02

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

404 Series



410 Series



450 Series

FULL GLASS:

100 Series

114, 120, 121
Series

152 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

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



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

2

**Johnson
EntrySystems**

June 17, 2002

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



Exclusively from

Masonite
Masonite International Corporation



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: 01-41135.01
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, aluminum picture window at their facility located in Elizabethtown, Pennsylvania. The samples tested successfully met the performance requirements for a F-R45 60 x 80 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

Type: Aluminum Picture Window

Overall Size: 5' 0" wide by 6' 8" high

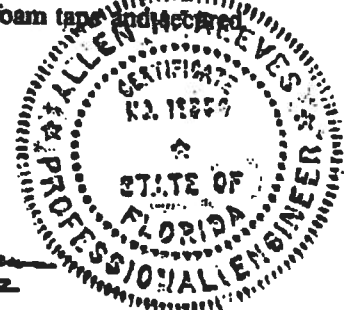
Daylight Opening Size: 4' 9-1/4" wide by 6' 5-1/4" high

Finish All aluminum was white.

Glazing Details: The test specimen utilized 7/8" thick, sealed insulating glass constructed from two sheets of 3/16" thick, clear annealed glass and a metal reinforced butyl spacer system. The glass was interior glazed against double-sided adhesive foam tape and secured with aluminum snap-in glazing beads.

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

Allen M. Reeves
1 APR 12 2002





**AAMA/NWDA 101/1.S.2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

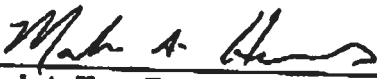
SERIES/MODEL: 650

TYPE: Aluminum Picture Window

Title of Test	Results
Rating	F-R45 60 x 80
Overall Design Pressure	+45.0 psf -47.2 psf
Air Infiltration	0.04 cfm/ft ²
Water Resistance	8.25 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41135.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.


Mark A. Hess, Technician

MAH:njb

Allen N. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

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.

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck. #8 x 2-1/2" installation screws were utilized 18" on center around the interior perimeter. Polyurethane was utilized to seal the exterior.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.04 cfm/ft ²	0.3 cfm/ft ² max.
	Water Resistance (ASTM E 547-00) 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 jamb) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.01" 0.01"	0.41" max. 0.41" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the jamb) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.0" 0.01"	0.29" max. 0.29" max.

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

Allen M. Reeves
1 APRIL 2002



Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
	Forced Entry Resistance (ASTM F 588-97)		
	Type: D		
	Grade: 10		
	Hand and Tool Manipulation Test	No entry	No entry

Optional Performance

4.3	Water Resistance (ASTM E 547-00)		
	WTP = 8.25 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97)		
	(Measurements reported were taken on the jamb)		
	(Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.02"	0.41" max.
	@ 47.2 psf (negative)	0.02"	0.41" max.
	Uniform Load Structural (ASTM E 330-97)		
	(Measurements reported were taken on the jamb)		
	(Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.01"	0.29" max.
	@ 70.8 psf (negative)	0.02"	0.29" max.

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

For ARCHITECTURAL TESTING, INC:

Mark A. Hess

Mark A. Hess
Technician

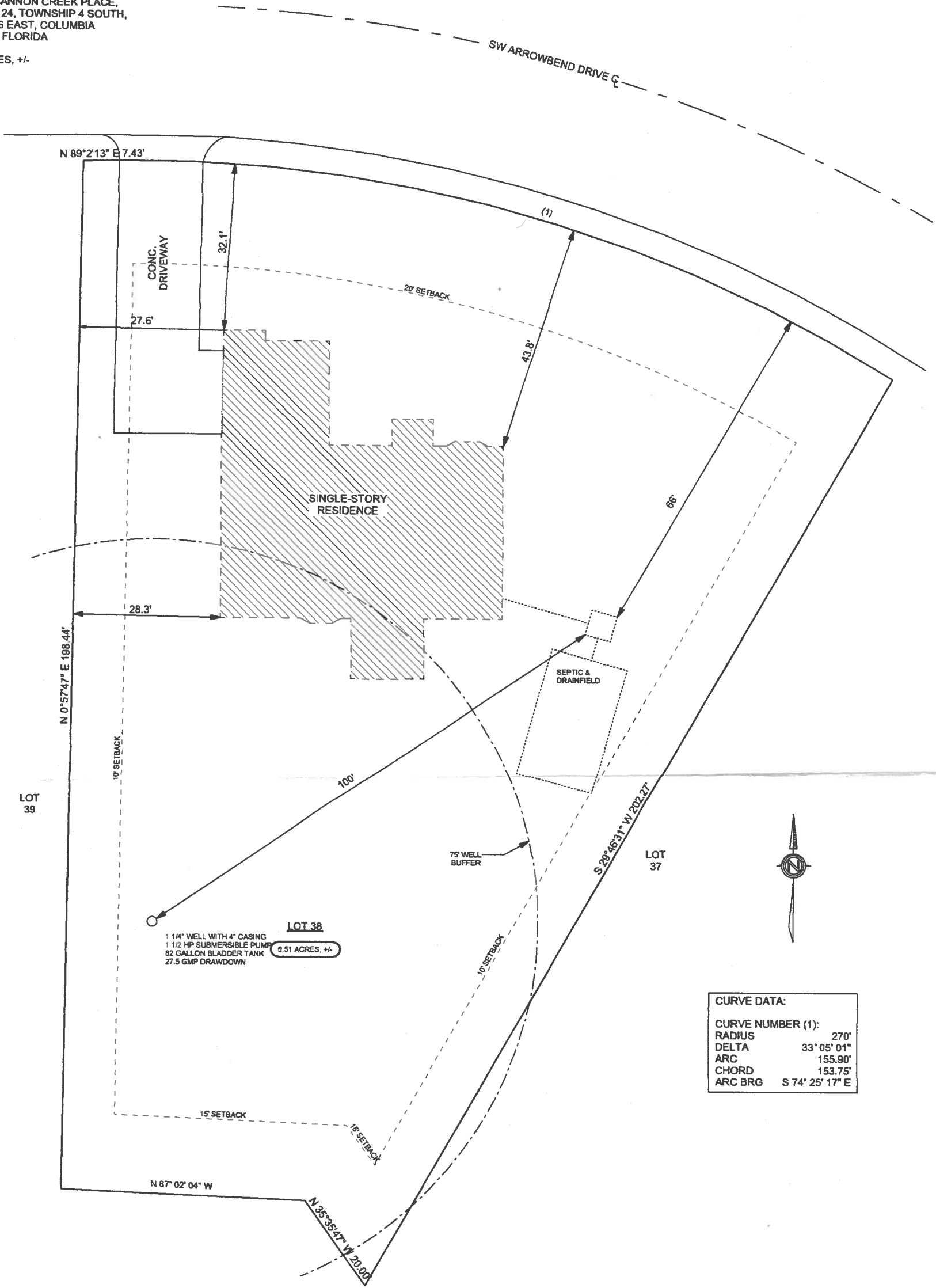
MAH:nfb
01-41135.01

Allen N. Reeves

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



PROJECT DESCRIPTION:
LOT 38, CANNON CREEK PLACE,
SECTION 24, TOWNSHIP 4 SOUTH,
RANGE 16 EAST, COLUMBIA
COUNTY, FLORIDA
0.51 ACRES, +/-



CURVE DATA:	
CURVE NUMBER (1):	
RADIUS	270'
DELTA	33° 05' 01"
ARC	155.90'
CHORD	153.75'
ARC BRG	S 74° 25' 17" E

SITE PLAN
SCALE: 1" = 10'

PROJECT NO.	OF	SHEET	DATE	DRAWN BY	W.H.F.
	1	SP-1	7/3/08		

Freeman
Design Group, Inc.

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209

CERTIFICATE OF AUTHORIZATION # 00008701

DAMPIER RESIDENCE

[Signature]
8.3.06

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: 1SUW487-Z0221093357

Truss Fabricator: Anderson Truss Company
Job Identification: 6-094-PARK JONES/SPEC
Truss Count: 30
Model Code: Florida Building Code
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.22, 7.24.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-98 -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-CNBRGBLK-A11015EC-GBLLETIN-



Seal Date: 02/21/2006

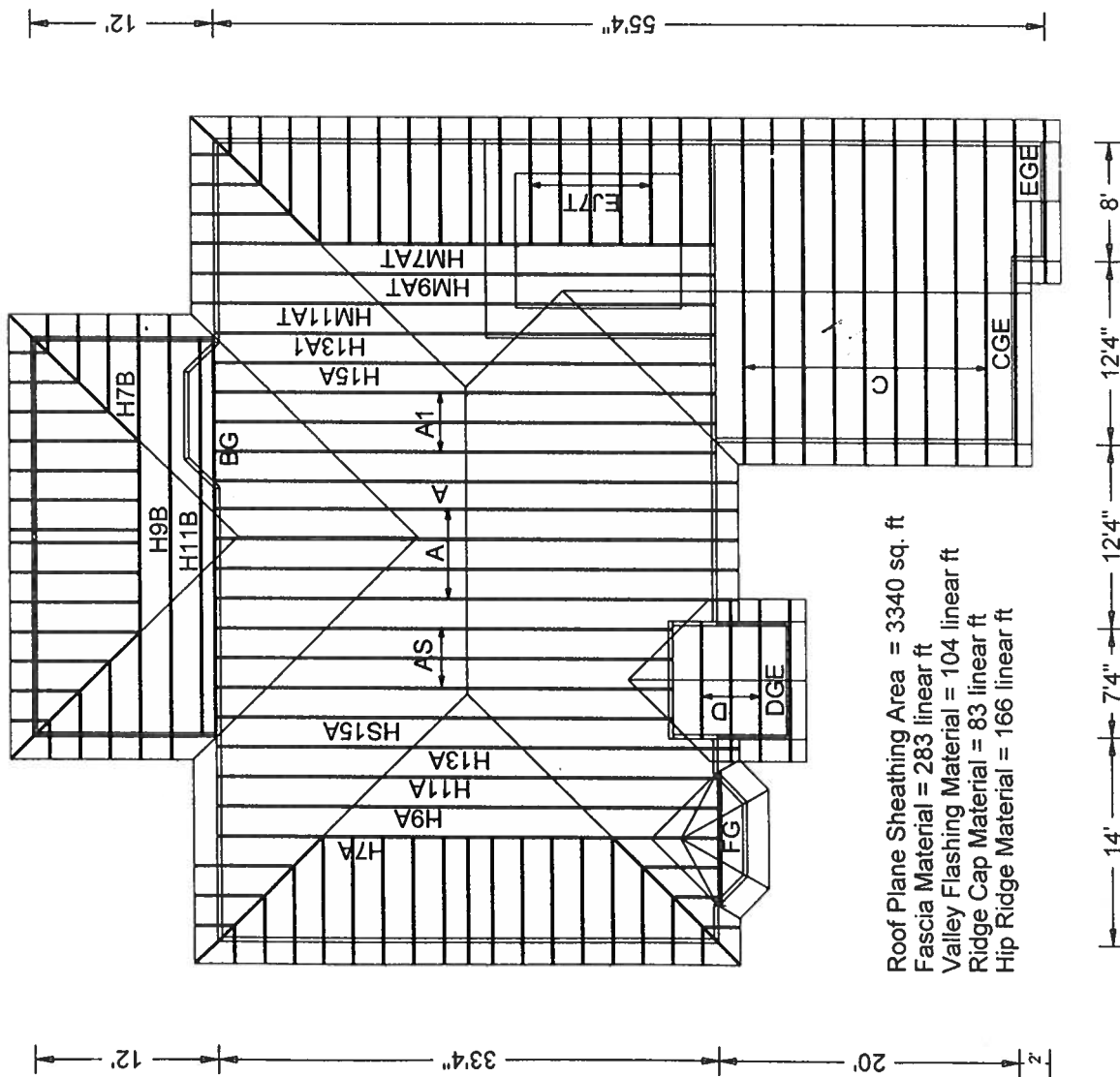
-Truss Design Engineer-
Arthur R. Fisher

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

#	Ref	Description	Drawing#	Date
1	79322--	H7A	06052013	02/21/06
2	79323--	H9A	06052014	02/21/06
3	79324--	H11A	06052015	02/21/06
4	79325--	H13A	06052001	02/21/06
5	79326--	A	06052002	02/21/06
6	79327--	A	06052016	02/21/06
7	79328--	A1	06052017	02/21/06
8	79329--	H15A	06052018	02/21/06
9	79330--	H13A1	06052003	02/21/06
10	79331--	HS15A	06052004	02/21/06
11	79332--	AS	06052005	02/21/06
12	79333--	HM7AT	06052019	02/21/06
13	79334--	HM11AT	06052006	02/21/06
14	79335--	HM9AT	06052007	02/21/06
15	79336--	H7B	06052020	02/21/06
16	79337--	H9B	06052008	02/21/06
17	79338--	H11B	06052009	02/21/06
18	79339--	BG	06052028	02/21/06
19	79340--	CGE	06052029	02/21/06
20	79341--	C	06052010	02/21/06
21	79342--	DGE	06052021	02/21/06
22	79343--	D	06052011	02/21/06
23	79344--	EGE	06052022	02/21/06
24	79345--	FG	06052030	02/21/06
25	79346--	EJ7T	06052023	02/21/06
26	79347--	EJ7	06052024	02/21/06
27	79348--	CJ5	06052025	02/21/06
28	79349--	HJ7	06052026	02/21/06
29	79350--	CJ3	06052012	02/21/06
30	79351--	CJ1	06052027	02/21/06



984-0942



PARK JONES/SPEC

JOB NO:
6-094

PAGE NO:
1 OF 1

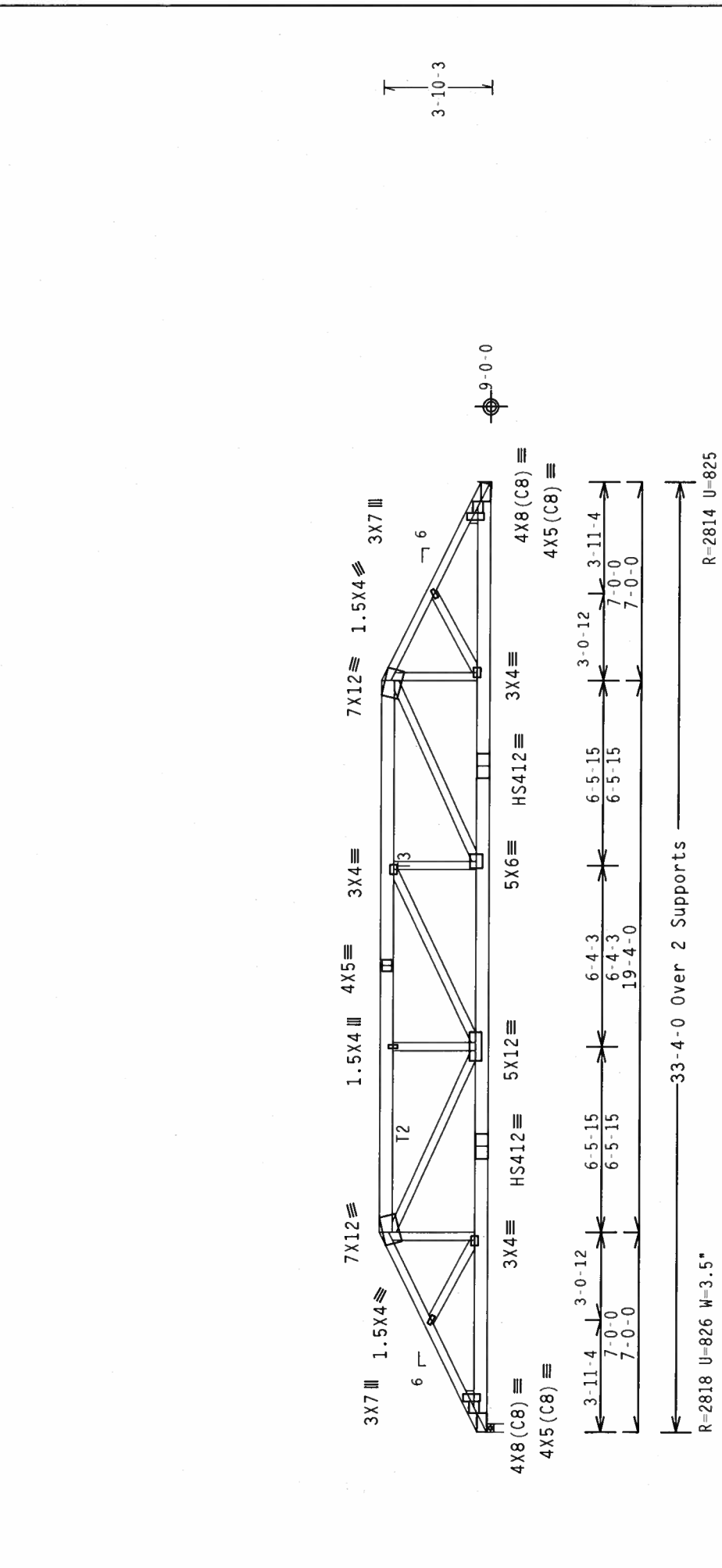
DESIGNED BY:

JOB DESCRIPTION:
PARK JONES/SPEC

JOB LOCATION:

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 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 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.
#1 hip supports 7-0-0 jacks with no webs.



PLT TYP. 20 Gauge HS-Wave

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

Scale = .1875"/Ft.

REF R487 -- 79322

DATE 02/21/06

DRW HCUSR487 06052013

HC-ENG DF/AF

SEQN- 165894

DUR.FAC. 1.25

SPACING SEE ABOVE

JREF- 1SUW487_Z02

ALPINE

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

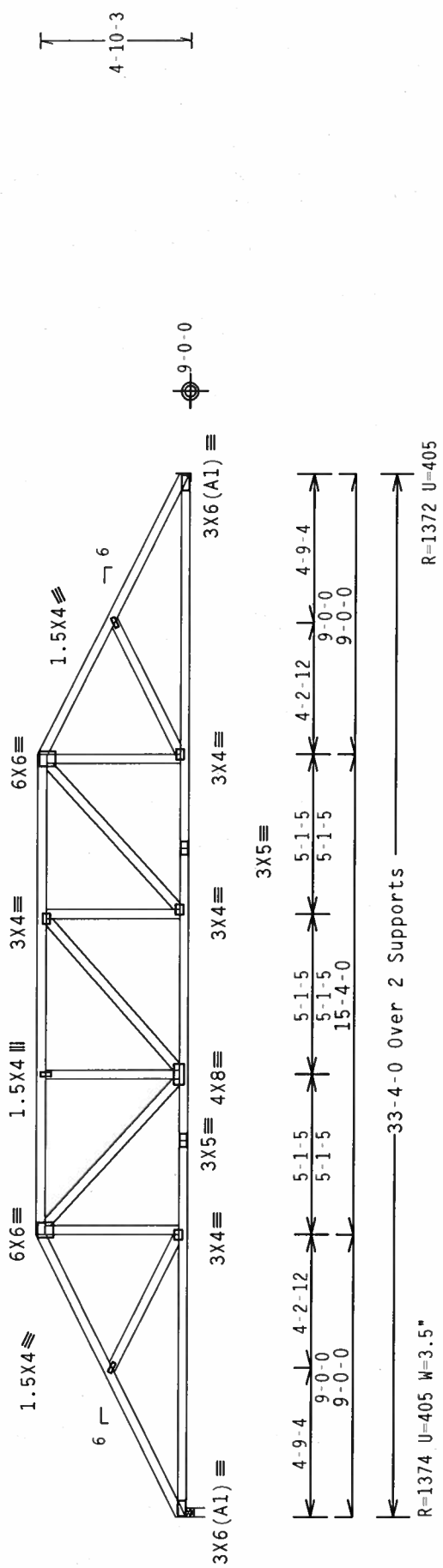
WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PARTS INSTITUTE), 6300 ENTERPRISE LN., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS 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 (M-M/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 ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ARTHUR R. FISHER
No. 59887
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Feb 21 '06

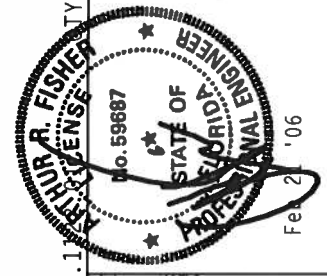
reflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.



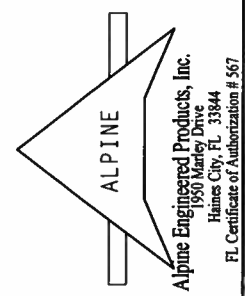
Design Crit: TPI-2002(STD)/FBC

FL/-/4/-/-/R/-	Scale = .1875" / Ft.	
TC LL	20.0 PSF	REF R487 - - 79323
TC DL	10.0 PSF	DATE 02/21/06
BC DL	10.0 PSF	DRW HCUSR487 06052014
BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.	40.0 PSF	SEQN- 165899
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SUW487_Z02



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-3 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLECE INSTITUTE, 503 D'ONOFIO RD., 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.

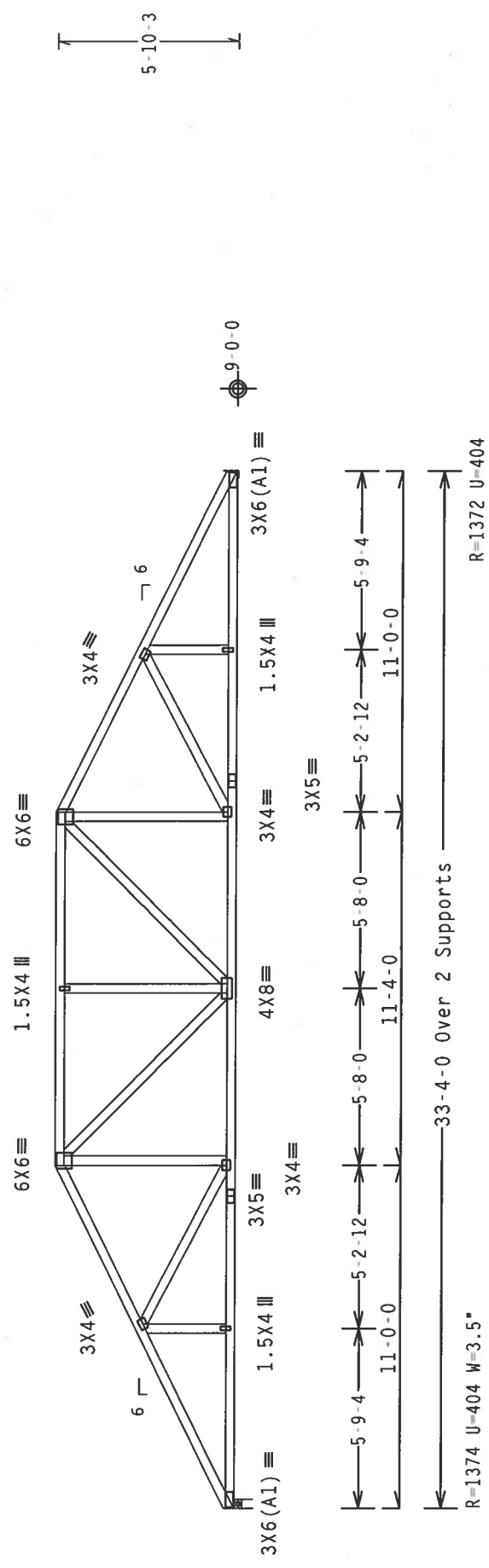
IMPORTANT-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE DESIGNER SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER. THIS DESIGN IS CONFORMANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TP1. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/HYS/CA) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THE TRUSS PER DRAWINGS 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 DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AS/NZS/TP1 1 SEC. 2.



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

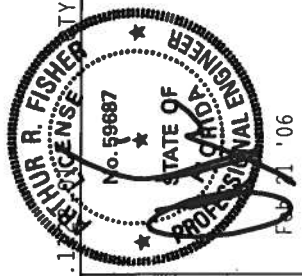
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Scale = .1875"/Ft.

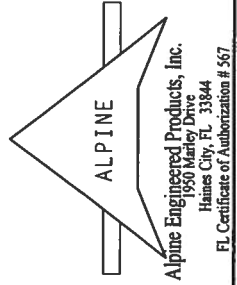
TC LL	20.0 PSF	REF	R487 - - 79324
TC DL	10.0 PSF	DATE	02/21/06
BC DL	10.0 PSF	DRW	HCUSR487 06052015
BC LL	0.0 PSF	HC-ENG	DF /AF
TOT.LD.	40.0 PSF	SEQN-	165880
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SUW487_Z02



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BESS 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSSING INSTITUTE OF AMERICA, 6300 ENTERPRISE BLVD., MADISON, WI. SUITE 200, MADISON, WI 53719, AND NCA, WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W-H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANS 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 ANS1/TPI 1 SEC. 2.

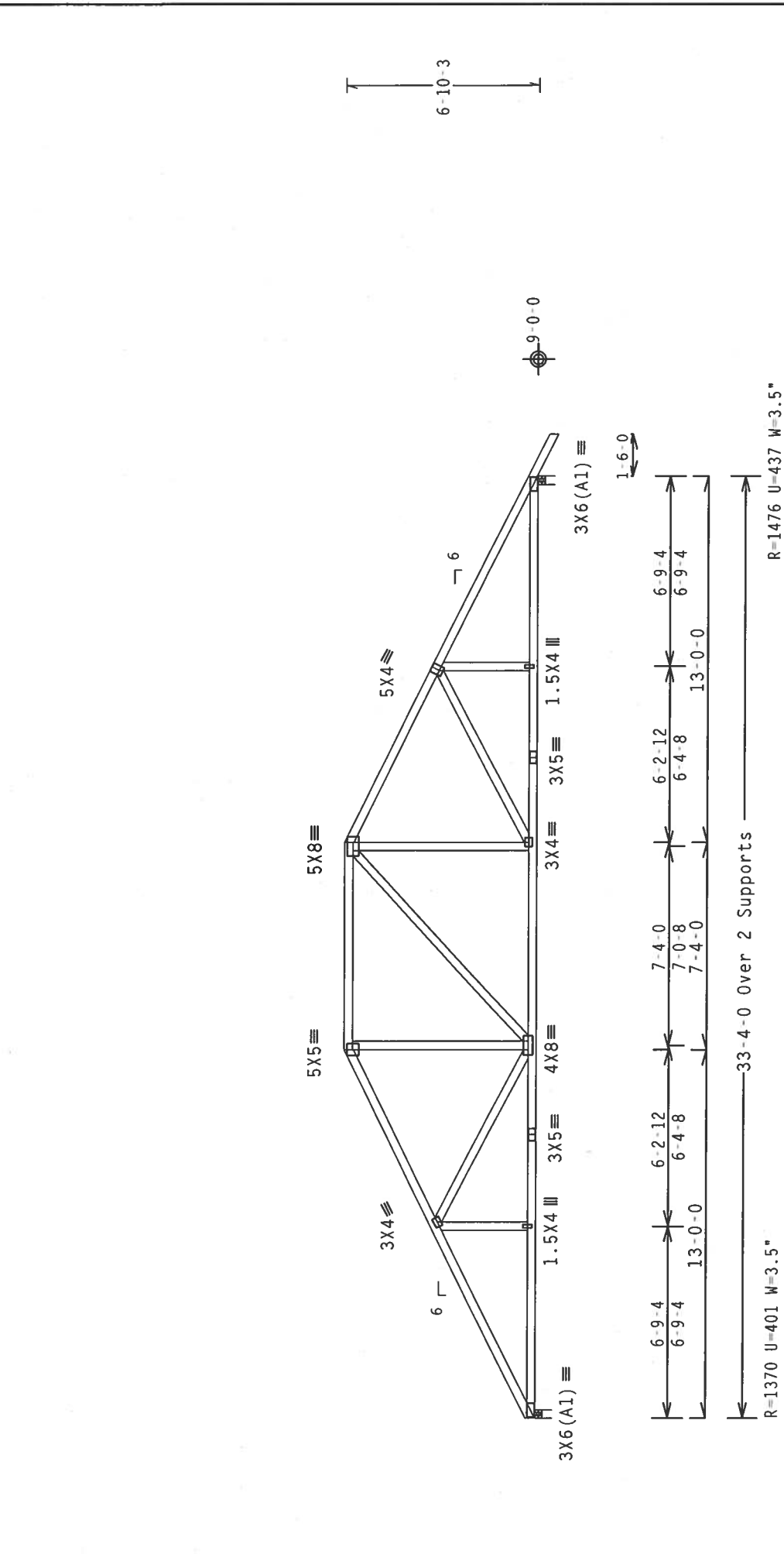
****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED TRUSSES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18 UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DIMENSIONS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY REPAIRS WILL BE AT THE USER'S RISK. K/H-SI GALV. STEEL. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-2.8 psf, wind BC DL-2.2 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 = .1875"/Ft.

TC LL	20.0 PSF	REF	R487 -- 79325
TC DL	10.0 PSF	DATE	02/21/06
BC DL	10.0 PSF	DRW	HCUSR487 06052001
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN	165928
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SUW487_Z02

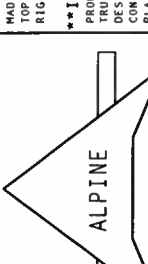
ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Feb 21 '06

Professional Engineer
No. 59687
STATE OF FLORIDA

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 MADISON, NJ 07091) FOR MORE INFORMATION. AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, NJ 07091) FOR MORE INFORMATION. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI 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 (M-H/SX) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. 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.

PLT TYP. Wave	 Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.22.11	FL/-/4/-/R/- Scale = .1875"/Ft.
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BESS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DOWNEY RD., SUITE 100, WESTFIELD, MA 01095) AND THE NATIONAL TRUSS ROOFING ASSOCIATION, 1000 N. MADISON, MI 53119). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, SEE THE FOLLOWING: 1. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.	**IMPORTANT**FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/SEA) AND TRUSSES. CONNECTOR PLATES ARE MADE OF 2018/160A (M-HY/SX) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY GALV. UNLESS OTHERWISE SPECIFIED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY VISUAL INSPECTION OF THE TRUSS COMPONENTS. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.	TC LL 20.0 PSF TC DL 10.0 PSF BC DL 10.0 PSF BC LL 0.0 PSF TOT.LD. 40.0 PSF DUR.FAC. 1.25 SPACING 24.0"	REF R487 -- 79326 DATE 02/21/06 DRW HCUSR487 06052002 HC-ENG DF/AF SEQN- 165952 JREF- 1SUW487_Z02

TC LL	20.0	PSF	REF R487 - - 79327
TC DL	10.0	PSF	DATE 02/21/06
BC DL	10.0	PSF	DRW HCUSR487 06052016
BC LL	0.0	PSF	HC-ENG DF/AF
TOT.LD.	40.0	PSF	SEQN- 165965
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1SUW487_Z02

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED TRUSS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE FABRICATING AND SHIPING OF 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 A553 GRADE 40/60 (M. W/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A/TPI-1 SEC. 2.

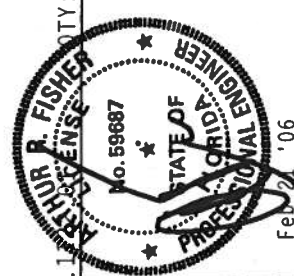
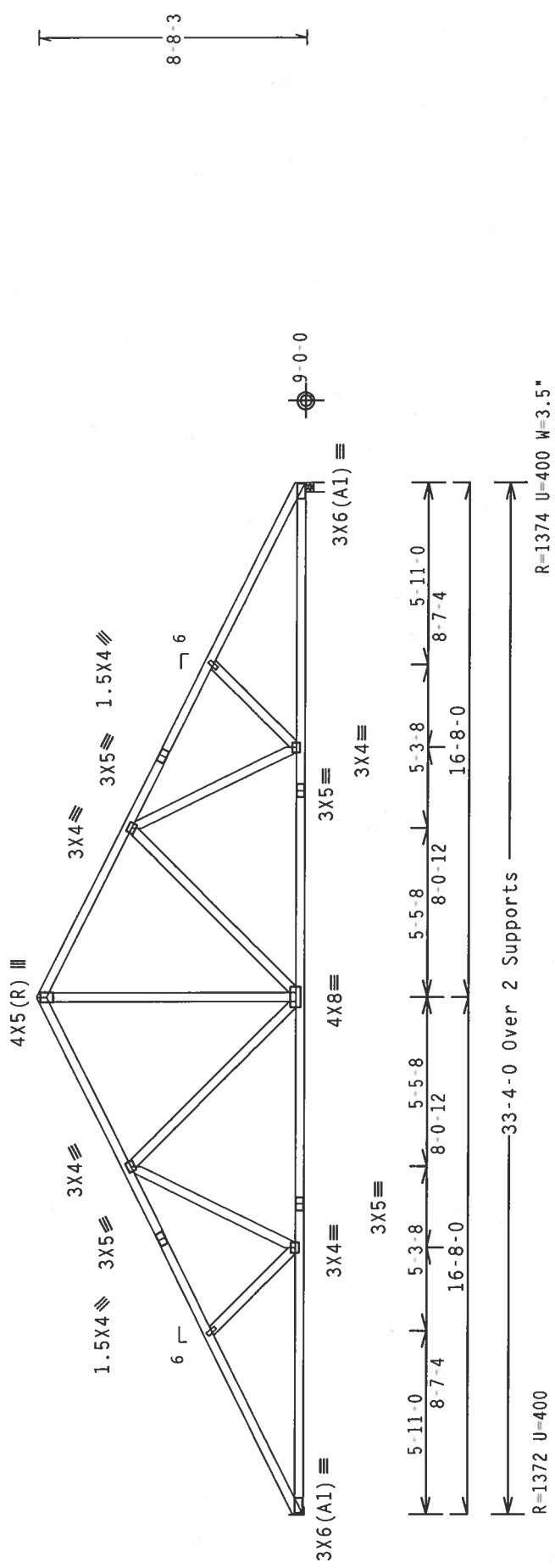


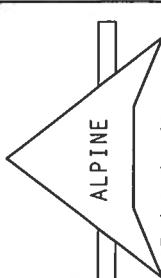
Alpine Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-2.8 psf, wind BC DL-2.2 psf.

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

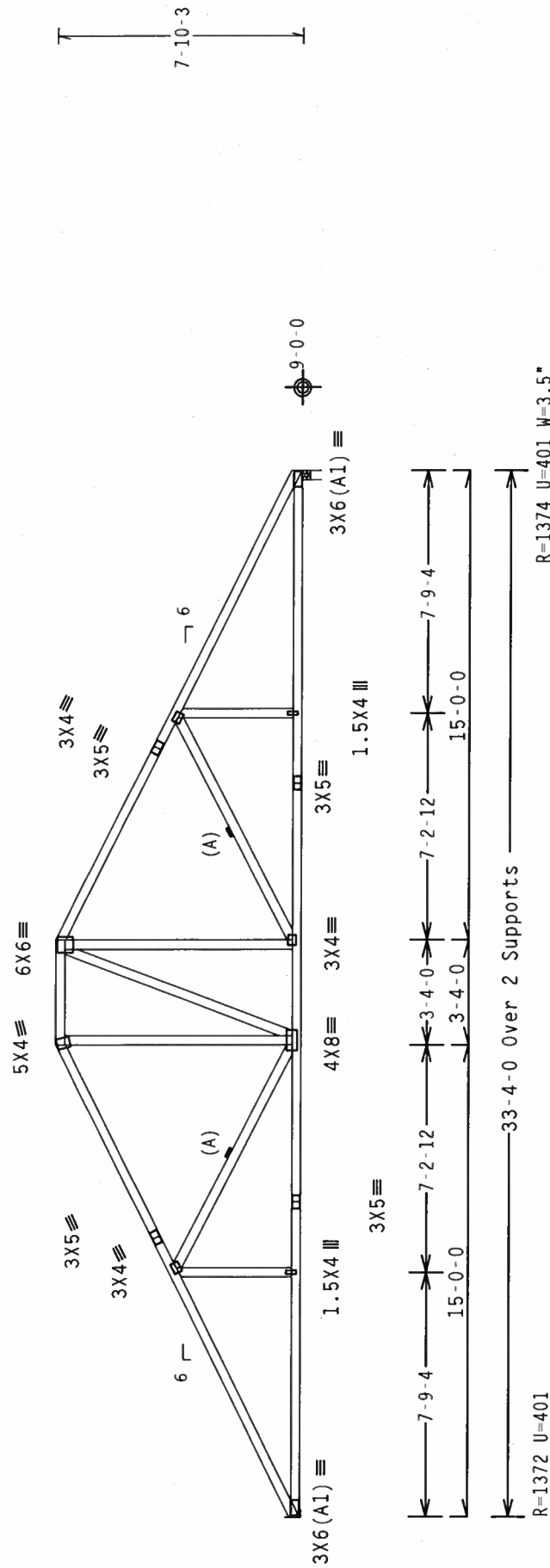


PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0)	7.22.10	FL/-/4/-/R/-	Scale = .1875"/Ft.	
 Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567	**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 7-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TRUSS PLATE INSTITUTE, 583 CONCORD DR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR ALL INFORMATION REGARDING TRUSS MANUFACTURING PRACTICES AND FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.			TC LL 20.0 PSF	REF R487-- 79328
				TC DL 10.0 PSF	DATE 02/21/06
				BC DL 10.0 PSF	DRW HCUSR487 06052017
				BC LL 0.0 PSF	HC-ENG DF/AF
				TOT.LD. 40.0 PSF	SEQN- 165972
			DUR.FAC. 1.25		
			SPACING 24.0"	JREF- 1SUW487_Z02	

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 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

(A) Continuous lateral bracing equally spaced on member.



Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$ 7.22.17

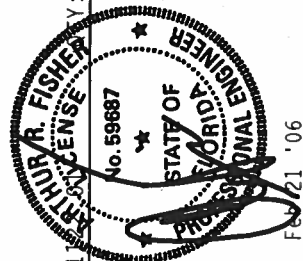
Scale = .1875"/Ft.

EI / - / 4 / - / - / R / - /

RIGHT TO LIFE LICENSE

WARNING: THUSSE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESI L-100 BUILDING COMPLEX, SUBSECTION 1 (STEEL PLATE INSTITUTE, 963 D'ONOFIO DR., SUITE 200 MADISON, WI 53719) AND WTCSD TECHNICAL MANUAL, SECTION 10.0 (WTCSD, 1000 N. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE NOTICED, 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.) FOR A572 AND TPI. ALPINE CONNECTOR PLATES ARE AVAILABLE 20/18/16GA (W/1/2" MIN) ASTM A563 GRADE 40/60 (W/ 1/4" MIN) GALV. STEEL. APPLY TO EACH END OF TRUSS UNLESS OTHERWISE LOCATED IN THIS DESIGN. SECTION FOR DRAWINGS 160A-2. AN INSPECTION OF THE TRUSS AND TRUSS JOINTS IS REQUIRED TO VERIFY THE CORRECTNESS OF THE SEAL ON THIS DRAWING. IN CASE OF ANY DISCREPANCY, THE DESIGNER ASSUMES RESPONSIBILITY FOR THE TRUSS COMPONENT DRAWING. IN CASE OF ANY DISCREPANCY, THE DESIGNER ASSUMES RESPONSIBILITY FOR THE TRUSS COMPONENT DRAWING. DESIGNER'S ACCEPTANCE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANS/1411 1 SEC. 2.



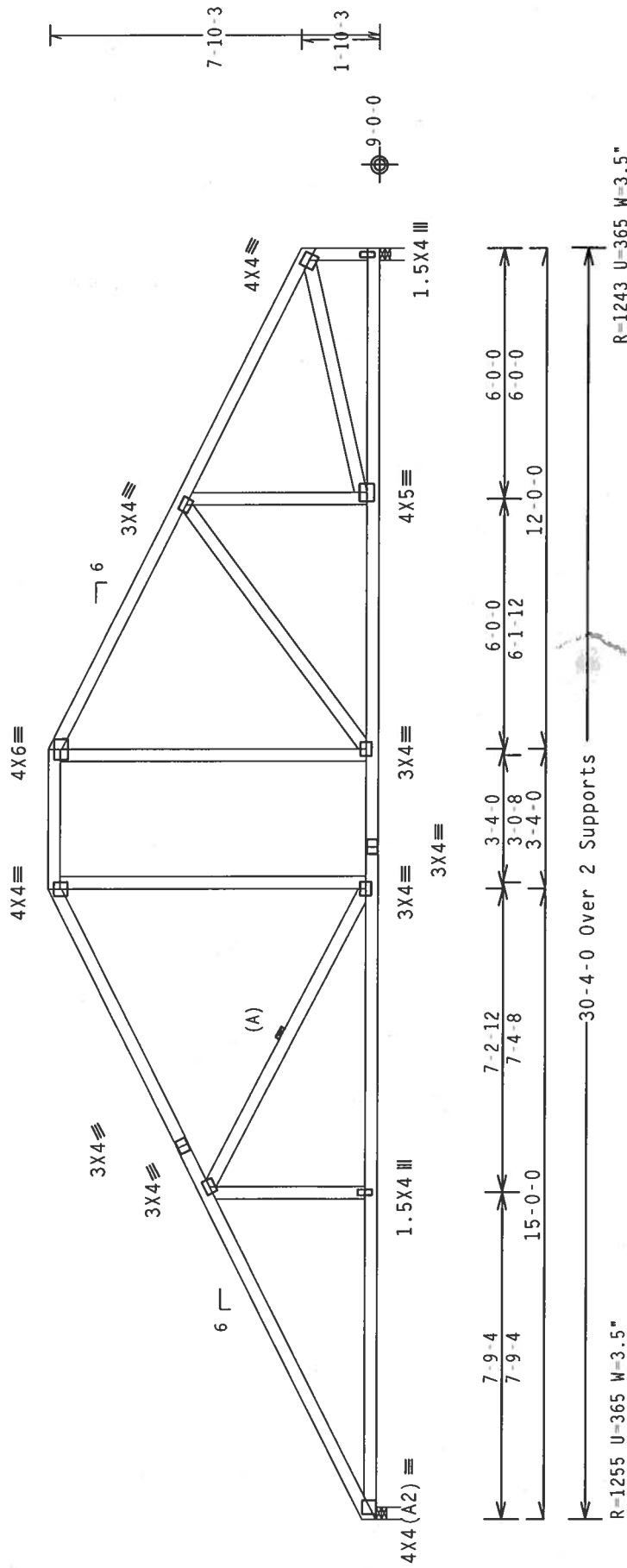
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

FL Certificate of Authorization # 567
Haines City, FL 33844

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

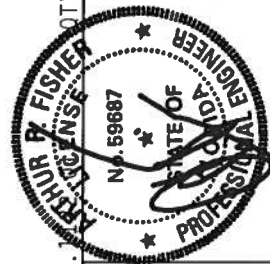
$$Ca/RT=1.00(1.25)/10(0)$$

QTY: 1

Scale = 25"/ft

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BGS-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 RIVER ST., BOSTON, MASSACHUSETTS 02118) AND AIA (WOOD PRESERVATION, 1215 N. 17TH AVE., SUITE 300, DENVER, COLORADO 80202). MADISON, WISCONSIN 53710) FOR MORE INFORMATION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE PRODUCTS IN ACCORDANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC.), AISC (STEEL INSTITUTE), AND AIA (ALUMINUM ASSOCIATION). CONNECTOR PLATES ARE MADE OF 2018/18GA (1/4 X 1/2") ASTM A453 GRADE 40/50 (1/4" (1/4" S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND WELDS. POSITION PER DRAWINGS 160A-2. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF 1711-2002 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 AIA/1711-2002 SEC. 2.



Feb 21, '06

DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SUW487 Z02

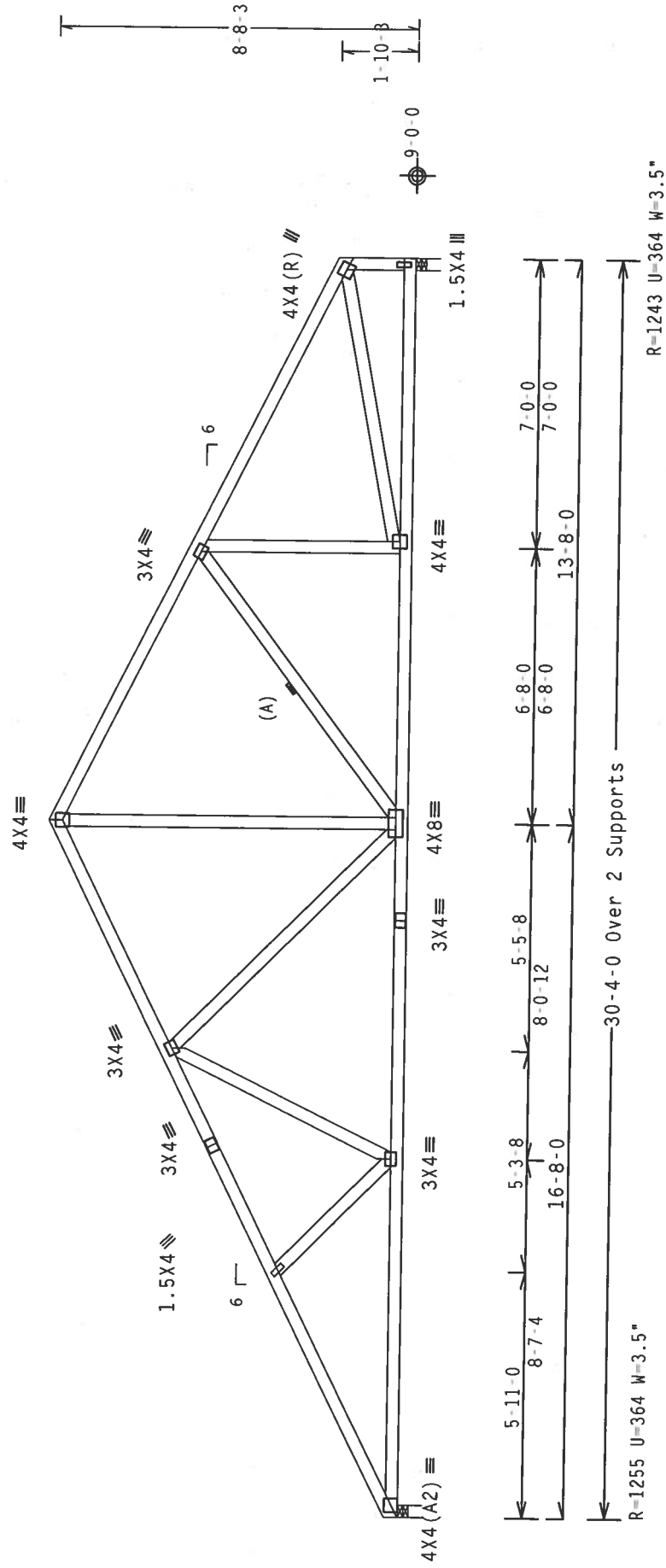
Haines City, FL 33844
FL Certificate of Authorization # 567

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 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

[illegible]

LIBRARY
No. 59687
STATE OF
NATIONAL ENGINEER

Scale = .25"/Ft.

REF R487 - - 79332

DATE 02/21/06

DRW HCUSR487 06052005

HC-ENG DF/AF *

SEQN- 165945

DUR.FAC.	1.25
----------	------

SPACING 24.0"

JREF- 1SUW487_Z02

Top chord 2x6 SP #1 Dense :T1 2x4 SP #2 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 :W5 2x6 SP #2:
:W6, W7, W8, W10, W13 2x4 SP #2 Dense:

Calculated horizontal deflection is 0.14" due to live load and 0.22" due to dead load.

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

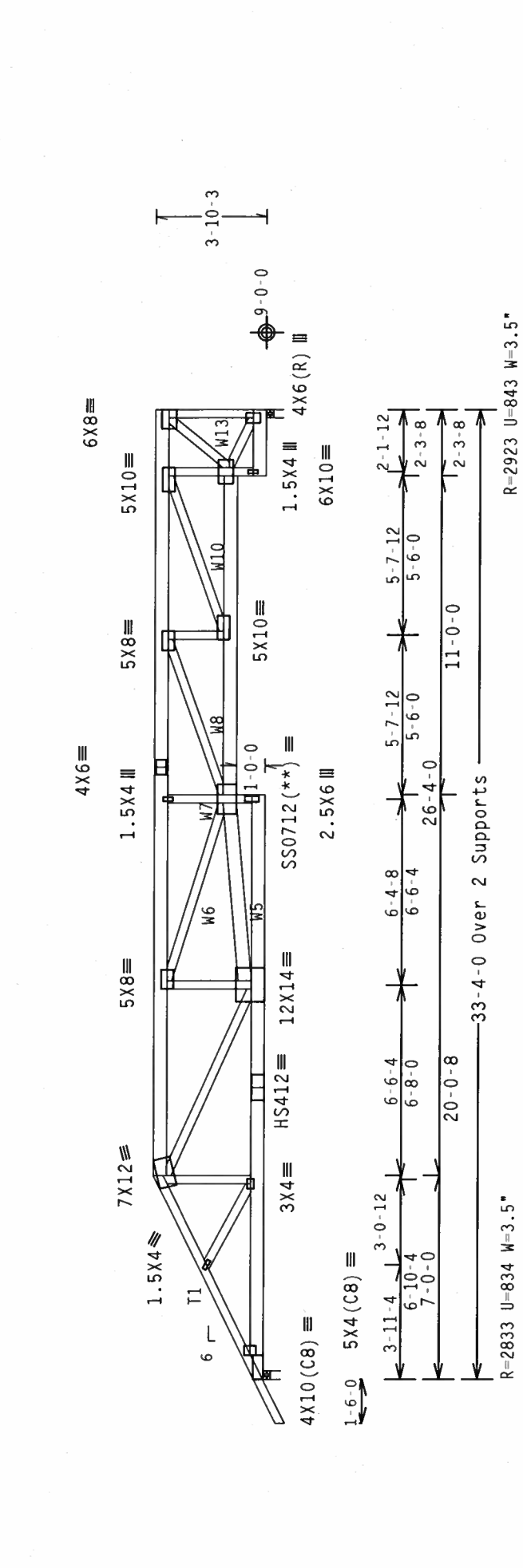
Calculated vertical deflection is 0.49" due to live load and 0.78" due to dead load at X = 20-0-8.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 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.



PLT TYP. 20 Gauge HS, 18 Gauge HS, Design Crit: TPI-2002 (STD) /FBC

Alpine Engineering Products, Inc.
Haines City, FL 33944
FL Certificate of Authorization # 567

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 100 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 5300 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 CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/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-2. DRAWING 160A-2 LOCATED 8' (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE DESIGNER'S RESPONSIBILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS1/TPI 1 SEC. 2.

Scale = .1875" / Ft.

REF	R487--	79333
DATE	02/21/06	
DRW	HCUSR487	06052019
HC-ENG	DF/AF	
SEQN-	165732	
DUR.FAC.	1.25	
SPACING	SEE ABOVE	
JREF-	1SUW487_Z02	

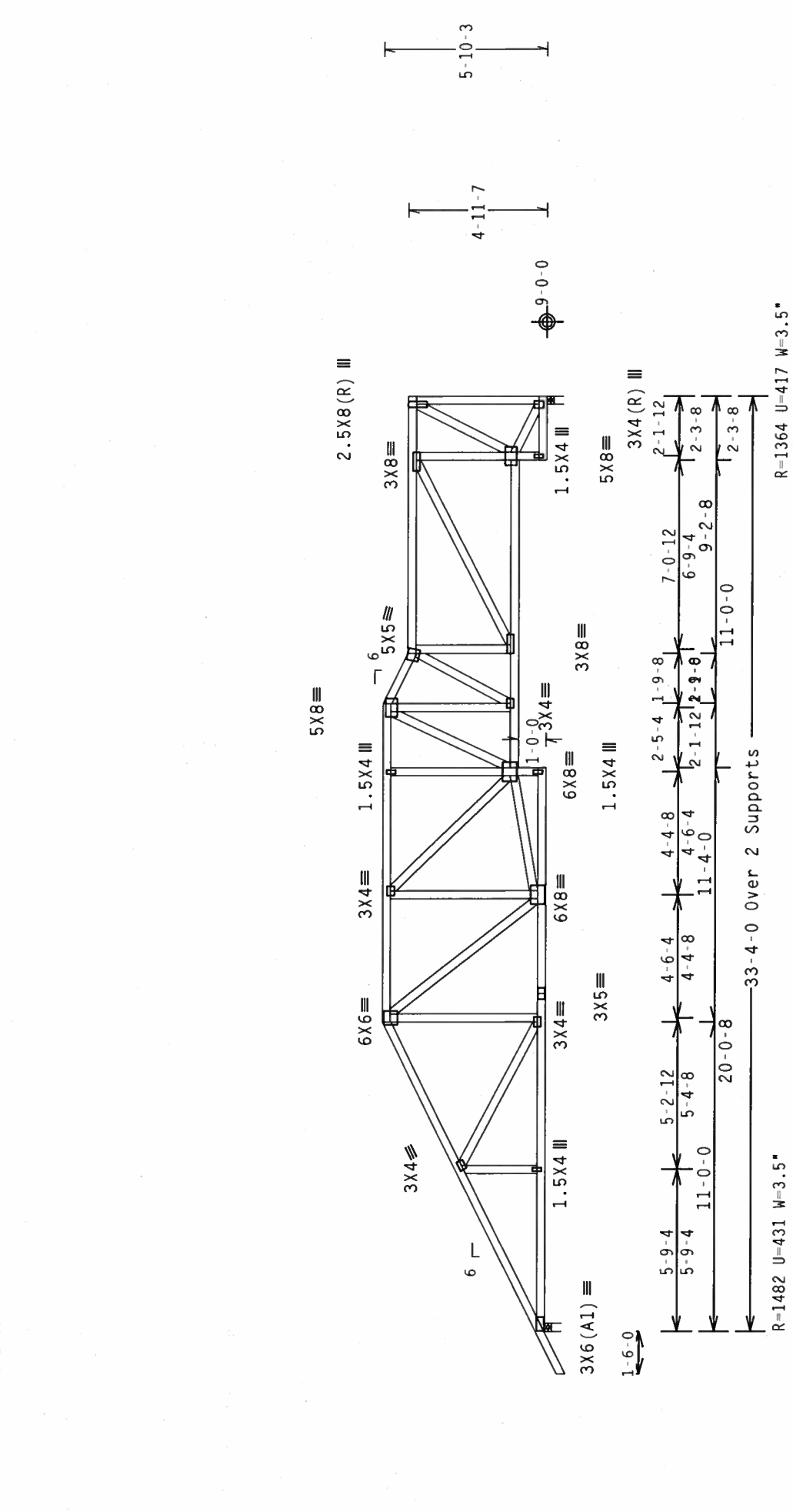
Top chord	2x4	SP #2	Dense
Bot chord	2x4	SP #2	Dense
Webbs	2x4	SP #3	

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT	TYP.	Wave	Cq/RT=1.00(1.25)/10(0)	7.22.11	TY:1	FL/-4/-/-R/-	Scale =.1875"/Ft

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE). 563 **HANGER** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE). 563 **HANGER** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE). 563	TC LL 20.0 PSF REF R487 - - 793334
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<< >>

No. 59867

TC DL 10.0 PSF 02/21/06 DATE

ALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED RIGID CEILING.

10	0	PSE
RC	DI	
DBH	WCSB497	AC05200
DATE	12/12/2011	11:05:00

****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 BUILDING CODES WILL BE AT THE USER'S RISK.****

ALPINE ENGINEERED PRODUCTS, INC.

**1000 N. HIGHWAY 67, SUITE 200
DENVER, CO 80202**

**TEL: 303-733-9200
FAX: 303-733-9201
WWW.AEP-INC.COM**

TRUSS IN CONFORMANCE WITH TPI:	U.S. —
OR FABRICATING, HANDLING, SHIPPING,	PST
INSTALLING & BRACING OF TRUSSES	BC LL
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI.	HC-ENG DF / AF

TOTAL 40.0 PSF
 SEQN-166009

Alpine Engineered Products, Inc.
1900 Marley Drive
Durham, N.C. 27704
1-800-368-2622
Fax: 919-286-2622
www.alpineeng.com

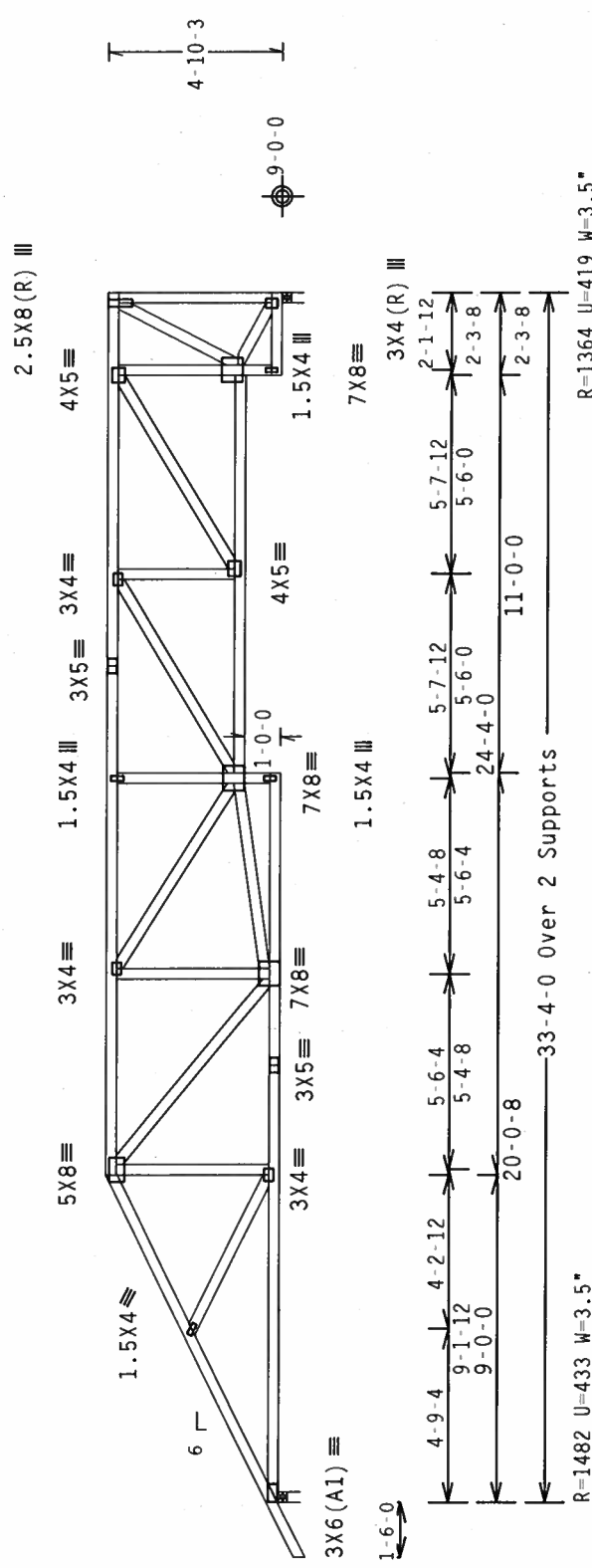
DESIGN SHOWN: THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.		
Haines City, FL 33844	SPACING	JREF- 1SUW487 Z02
24.0"		

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

11110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 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.



R=1482 U=433 W=3.5"

R=1364 U=419 W=3.5"

Design Crit: TPI-2002(STD)/FBC

TPI - 2002(STD) / FBC	Cq/RT=1.00(1.25)/10(0)	7.22.18

PLT TYP. Wave

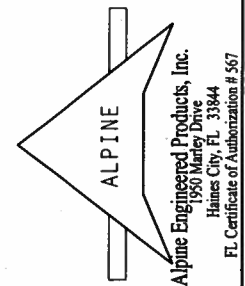
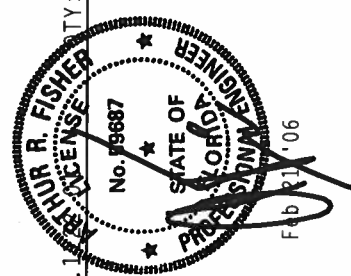
7.22.11

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

Scale = .1875"/Ft.

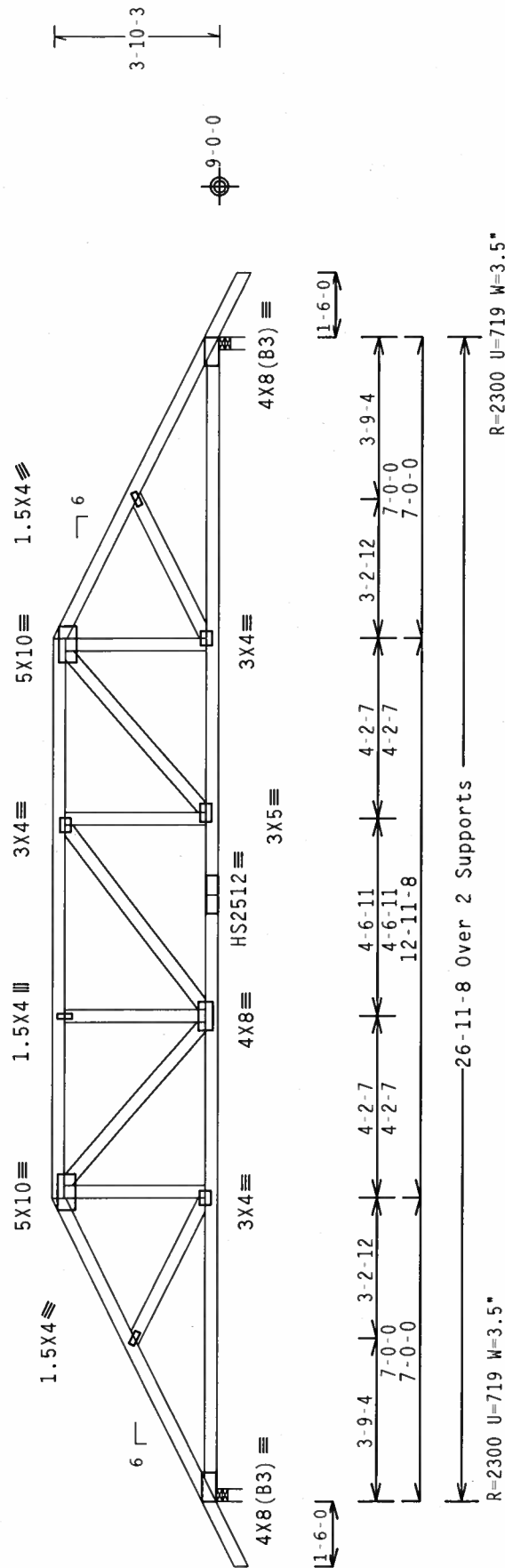
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLECE INSTITUTE, 583 O'DONOFIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300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

IMPORTANT—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH THE MANUFACTURING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE 2010 INTERNATIONAL BUILDING CODE. ALL STEEL CONNECTOR PLATES ARE MADE OF 2018/16GA. IN H/S/24 ASTM A653 GRADE 40/50 (40 / 41.5) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX/TP11 SEC. 2.



1110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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



R=2300 U=719 W=3.5"

R=2300 U=719 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS, Wave

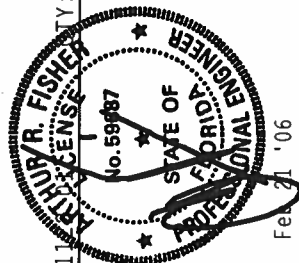
$$Cq/RT=1.00(1.25)/10(0) \quad 7.22.11$$

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

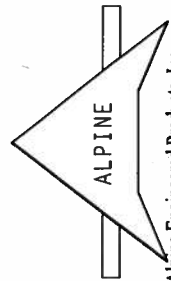
Scale = 25"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI TRUSSING COMPANY, INC. BY (CROSS PANEL INSTITUTE) 483 D. O'NEILL RD., SUITE 200, MADISON, WI 53719, AND WCA WOOD TRUSSES CO., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE COUNTS, 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 SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE PROVISIONS OF THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE TRUSS DESIGNER. CONFORMANCE WITH THE PROVISIONS OF ADOPTED NATIONAL DESIGN SPEC. BY AISC AND THE AISC DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC. BY AISC AND THE AISC. CONNECTOR PLATES ARE MADE OF 20/18/166GA (W/45/16) ASTM A663 GRADE 40/60 (W/45/16) GALV. STEEL APPLIED TO EACH FACE OF TRUSS AND OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. PLATES TO EACH FACE OF TRUSS AND OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX 1 OF TP11-2002 SEC. 2.



TC LL	20.0	PSF	REF R487-- 79336
TC DL	10.0	PSF	DATE 02/21/06
BC DL	10.0	PSF	DRW HCUSR487 06052020
BC LL	0.0	PSF	HC-ENG DF/AF
TOT.LD.	40.0	PSF	SEQN- 165691
DUR.FAC.	1.25		
SPACING	SEE ABOVE		JREF- 1SUW487_Z02



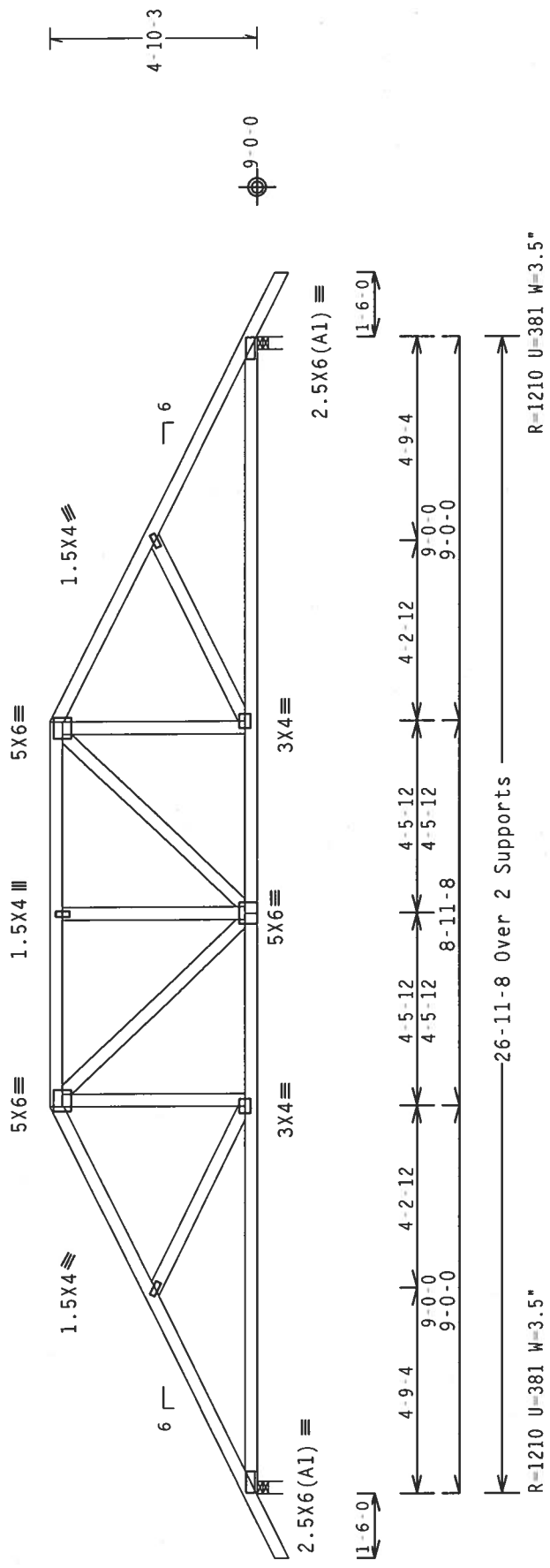
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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 7-98, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind
BC DL=2.2 psf.

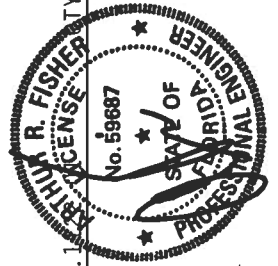
Deflection meets L/360 live and L/240 total load. Creep increase factor
for dead load is 1.50.



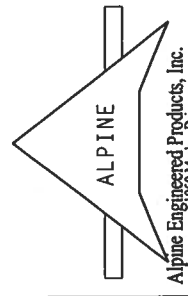
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7-22-11

PLT TYP. Wave

Scale = .25\"/>



Feb 21 '06



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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W. H/2/R) ASTM A653 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. AN INSPECTION OF PLATES FOLLOWED BY VISUAL INSPECTION OF THE TRUSS SHALL BE REQUIRED. SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER. BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

FL Certificate of Authorization # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 :W13 2x4 SP #2 Dense:

Bearing blocks: Nail type: 10d, Common (0.148"x3", min.) nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
2 16.792' 1 12"
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGK1103 for additional information.

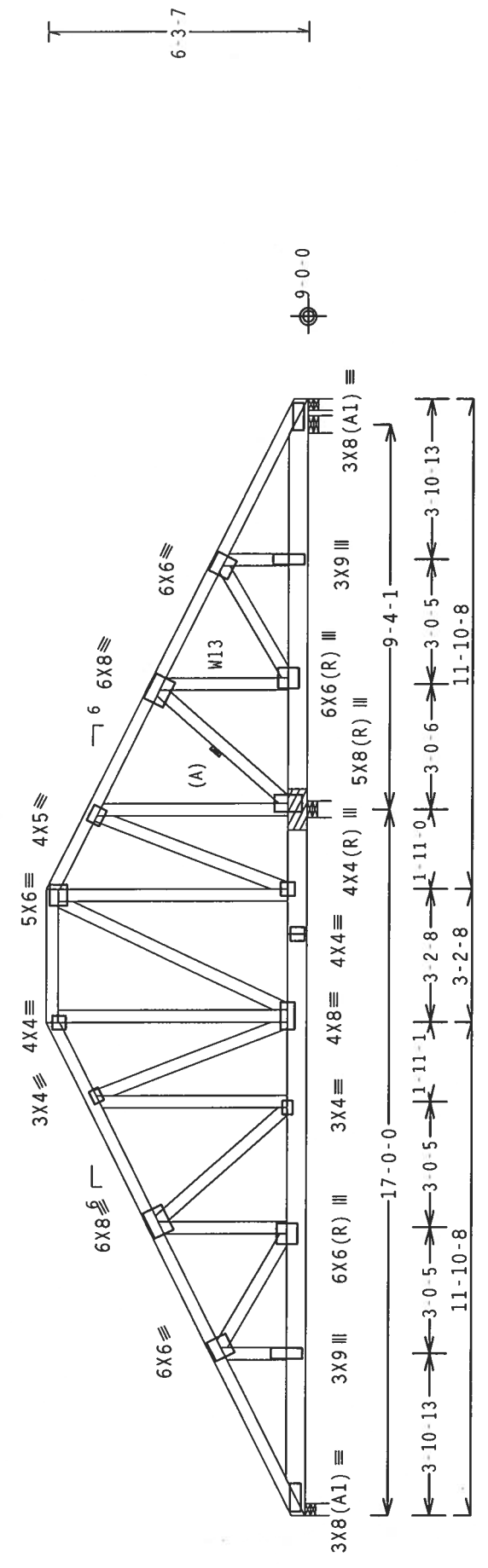
(A) Continuous lateral bracing equally spaced on member.

NOTE: THIS TRUSS MUST BE INSTALLED AS SHOWN. IT CAN
NOT BE FLIPPED END FOR END.

SPECIAL LOADS

-----LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25
TC - From 62 PLF at 0.00 to 62 PLF at 26.96
BC - From 20 PLF at 0.00 to 20 PLF at 26.96
BC - 1369 LB Conc. Load at 17.23
BC - 1372 LB Conc. Load at 19.23, 21.23, 23.23, 25.23
110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind
BC DL=2.2 psf.

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



R=299 U=180 W=3.5"

26-11-8 Over 4 Supports

R=6092 U=1803 W=4.95"

R=2101 U=621 W=4.95"

R=585 U=180 W=3.5"

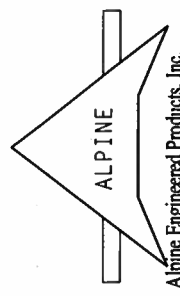
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

Scale = .25" / Ft.

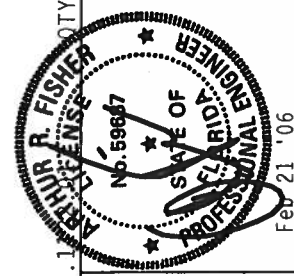
PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES 1-03 (BUILDING COMPONENT SAFETY INFORMATION) AND TPI-2002(STD) FOR ADDITIONAL INFORMATION. THIS TRUSS IS DESIGNED TO BE USED IN CONFORMANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD TRUSSES (NDS) AND THE NATIONAL SPECIFICATION FOR WOOD JOINTS (NSC) AND THE NATIONAL SPECIFICATION FOR WOOD BRACING (NBS). THIS TRUSS IS DESIGNED TO BE USED IN CONFORMANCE WITH THE NATIONAL SPECIFICATION FOR WOOD TRUSSES (NDS) AND THE NATIONAL SPECIFICATION FOR WOOD JOINTS (NSC) AND THE NATIONAL SPECIFICATION FOR WOOD BRACING (NBS). TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



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



TC LL	20.0 PSF	REF	R487 -- 79339
TC DL	10.0 PSF	DATE	02/21/06
BC DL	10.0 PSF	DRW	HCUSR487 06052028
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN-	165991
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SUW487_Z02

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

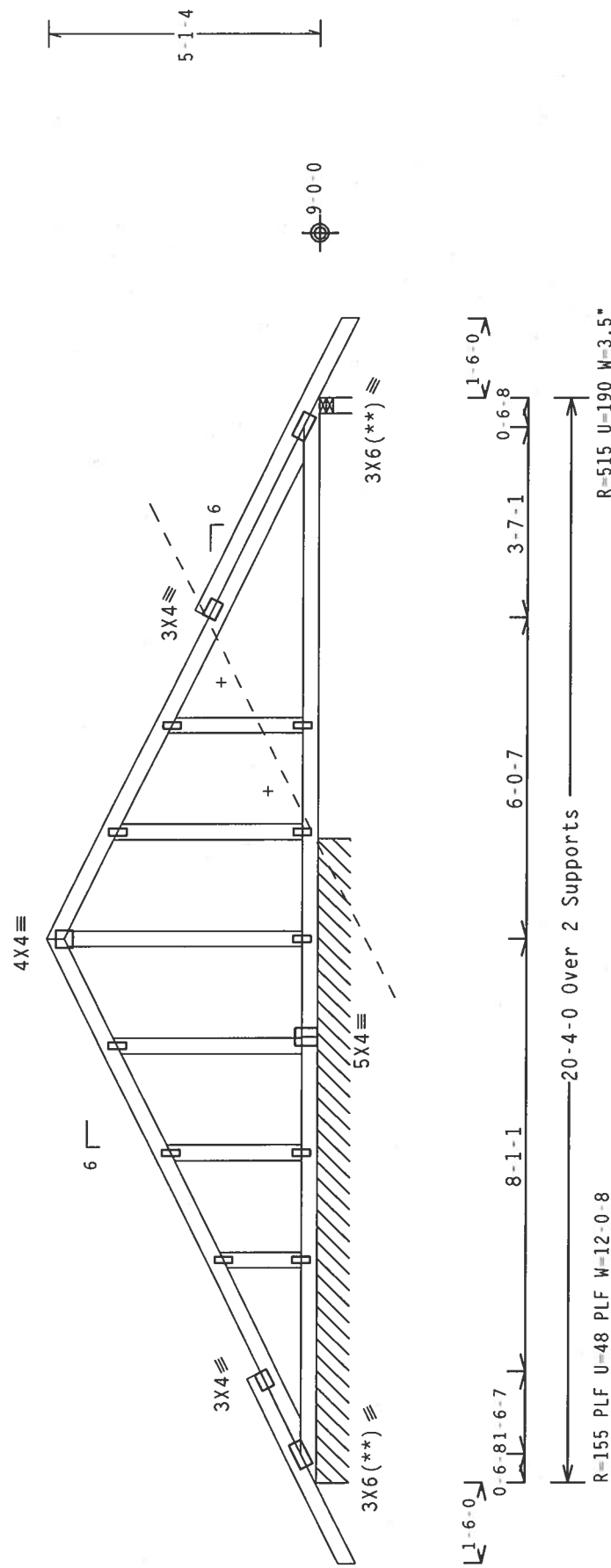
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers.
Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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.

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

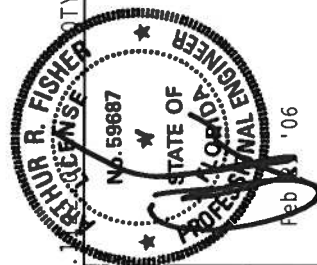


Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT	TYP.	Wave	Wave	7.22	FL	-	4	-	-	R	Scale
PLT	TYP.	Wave	Wave	7.22	FL	-	4	-	-	R	Scale = .3125" / Ft.

TC LL	20.0	PSF	REF	R487--	79340
TC DL	10.0	PSF	DATE	02/21/06	
BC DL	10.0	PSF	DRW	HCUSR487	06052029
BC LL	0.0	PSF	HC-ENG	DF/AF	
TOT.LD.	40.0	PSF	SEQN-	165673	
DUR.FAC.	1.25				
SPACING	SEE ABOVE		JREF-	1SUW487	Z02



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESI TO BUILDING COMPANIES SAFETY INFORMATION, PUBLISHED BY IPI (CRUSS PLATE INSTITUTE, 503 D'AMFORD DR., SUITE 200, MADISON, WI 53719) AND NICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE ATTACHED, TOP CHORD SHALL HAVE SAFETY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED. TOP CHORD SHALL HAVE PROPERTY ATTACHED.

****IMPORTANT****TURNISH 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 CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF THESE DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TP1 SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDER. ALL PLATES TO EACH FACE OF FOLLOWS BY UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER PARTS 160A-2 THROUGH 160A-7. AN INSPECTION OF PLATES FOLLOWED BY ONE SHALL BE PER AMER AS OF TP11 2002 SECTION 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 11 SEC. 2.

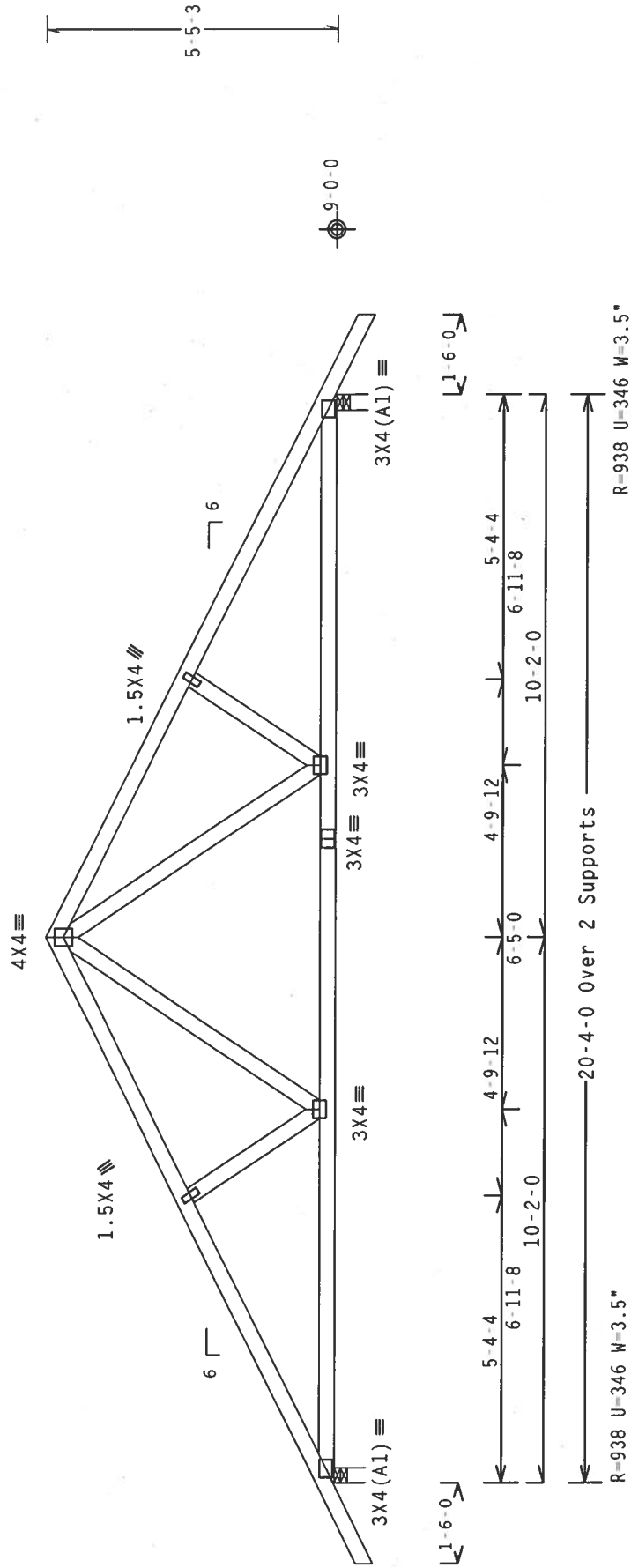


Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

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

110 mph wind, 15.00 ft mean ht, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 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

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

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

Scale = .3125"/Ft.

PLT TYP. Wave

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1-1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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.

INVESTIGATORFURNISH 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 TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD. (NATIONAL DESIGN SPEC. BY AISC) AND TP1: ALPINE
ENGINEERS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. THE TRUSS SHALL BE BUILT TO THE FOLLOWING
PLATES TO EACH FACE OF TUBES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DIMENSIONS 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
DESIGNED BY ALPINE ENGINEERS. THE REMAINDER OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANNEX (TP1) 1 SEC.2.

REF R487 -- 79341

DATE 02/21/06

DRW HCUSR487 06052010

HC-ENG DF/AF

SEON- 165680

THE UNIVERSITY OF CHICAGO

JREF- 1SUW487 702

Haines City, FL 33844
FL Certificate of Authorization # 567

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1950 Marley Drive
Haines City, FL 33844

90. **IN**

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL-2.8 psf, wind BC DL-2.2 psf.

See DWGS A11015EC1103 & GBLLETIN0405 for more requirements.

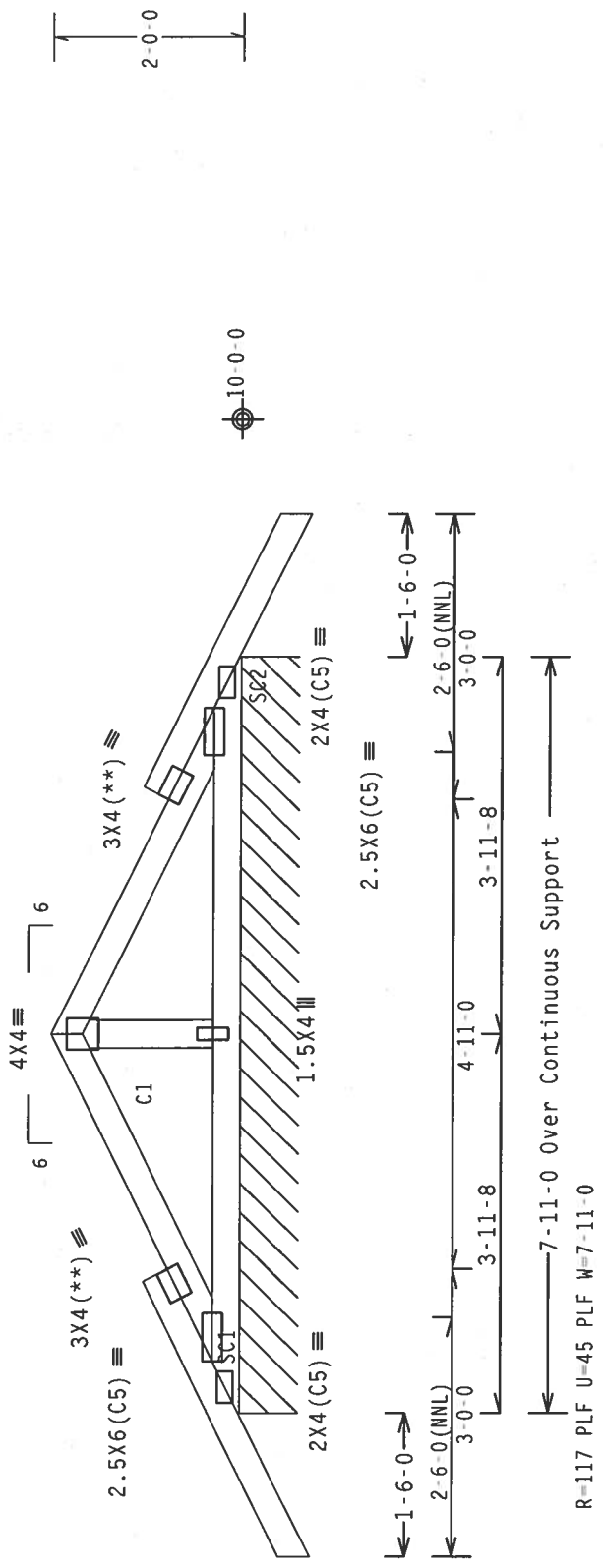
Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

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

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

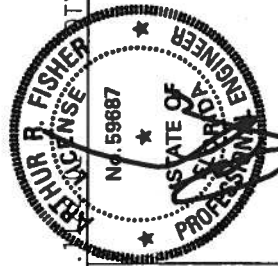
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #2 Dense:
Stack Chord SC2 2x4 SP #2 Dense:



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

PLT TYP. Wave

TC LL	20.0 PSF	FL/-/4/-/-/R/-	Scale = .5" / Ft.
TC DL	10.0 PSF		REF R487-- 79342
BC DL	10.0 PSF		DATE 02/21/06
BC LL	0.0 PSF		DRW HCUSR487 06052021
TOT.LD.	40.0 PSF		HC-ENG DF/AF
DUR.FAC.	1.25		SEON- 165657
SPACING	SEE ABOVE		JREF- 1SUW487_Z02



****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), 10000 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND WEA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

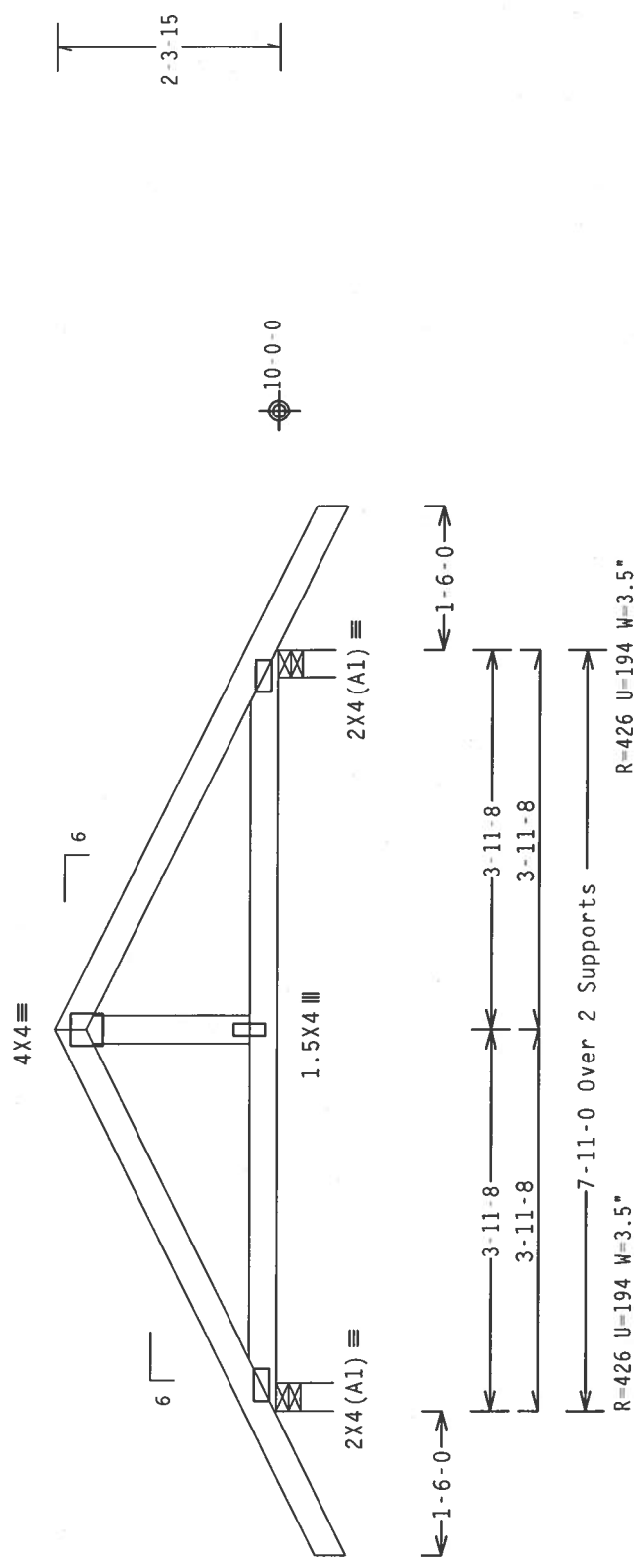
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN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

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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 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL-2.8 psf, wind BC DL-2.2 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 = 5"/Ft.

 ALPINE Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567	REF R487 - - 79343		TC LL 20.0 PSF	TY: 3	FL / - / 4 / - / - / R / -
	DATE 02/21/06		TC DL 10.0 PSF		
	DRW HCUSR487 06052011		BC DL 10.0 PSF		
	HC-ENG DF/AF *		BC LL 0.0 PSF		
	SEQN- 165661		TOT.LD. 40.0 PSF		
		DUR.FAC. 1.25			SPACING 24.0"
		JREF- 1SUW487_Z02			

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 10000 W. 10TH AVE., SUITE 303, MADISON, WI 53719, AND WCA, 10000 TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE, 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.

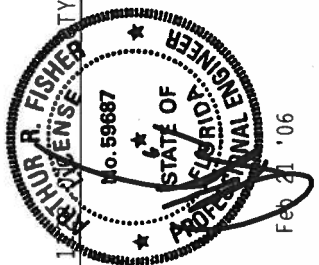
****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS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

No. 59687

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Feb 21 '06



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION) FOR THE FOLLOWING INFORMATION: PLATES SHALL BE MADE OF 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY CONNECTOR PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT AND THE 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. 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 TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT AND THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

FL Car

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Common_(0.148"x3",_min.)_nails)

Top Chord: 1 Row @12.00" o.c.

Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)

Webs : 1 Row @ 4" 0.c.

Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

SPECIAL LOADS

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

TC - From 61 PLF at 0.61 to 61 PLF at 8.39
(LONDER DOK: PAC: 1:23 / PLATE DOK: PAC: 1:23)

BC	From	20 PLF at	0.01 to	20 PLF at	9.00
BC	From	20 PLF at	0.01 to	20 PLF at	9.00

BC - FROM 20 PLF at 0.00 LB
BC - 260 LB Conc. Load at 0.45

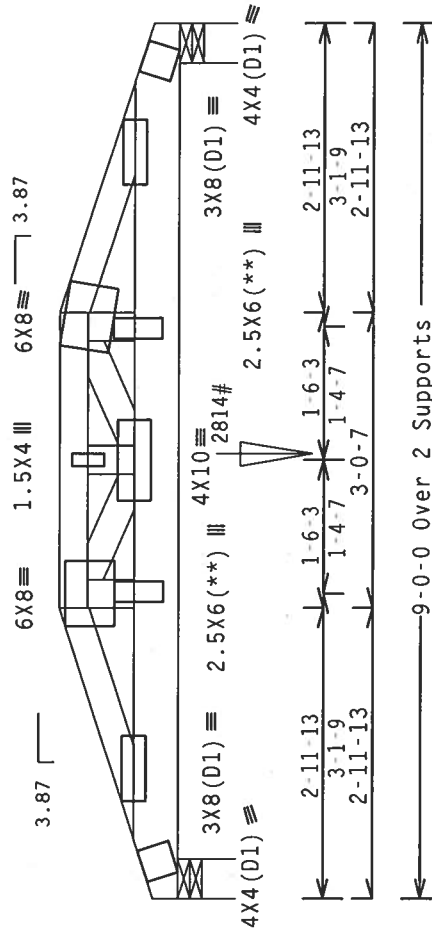
Coil	Coil Conc.	Load at 260	Load at 331
BC -	0.43	260 LB	331 LB
BC -	2.45	260 LB	331 LB

BC	331 LB Conc.	Load at	2.45
BC <th>2814 LB Conc.</th> <th>Load at</th> <th>4.56</th>	2814 LB Conc.	Load at	4.56

BC	2814	LB Conc.	Load at	4.56
BC <th>1372</th> <th>LB Conc.</th> <th>Load at</th> <th>6.56</th>	1372	LB Conc.	Load at	6.56

BC = 13/2 LB Conc. Load at 6.56,

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



R=2615 U=1220 W=4.95"

R=4188 U=1954 W=4 95"

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

PLT TYP. Wave

511-1A1-1-1B1-

Scale = .5"/Ft.

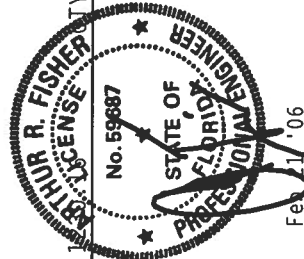
WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS-1-93 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS-PLATE INSTITUTE), 583 D'AMORIO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 600 ENTERPRISE LINE, 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 PROPERLY ATTACHED TOP-TOE-CELLING.

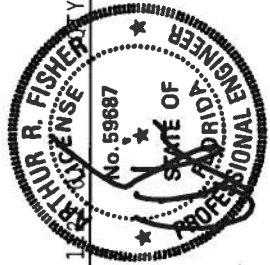
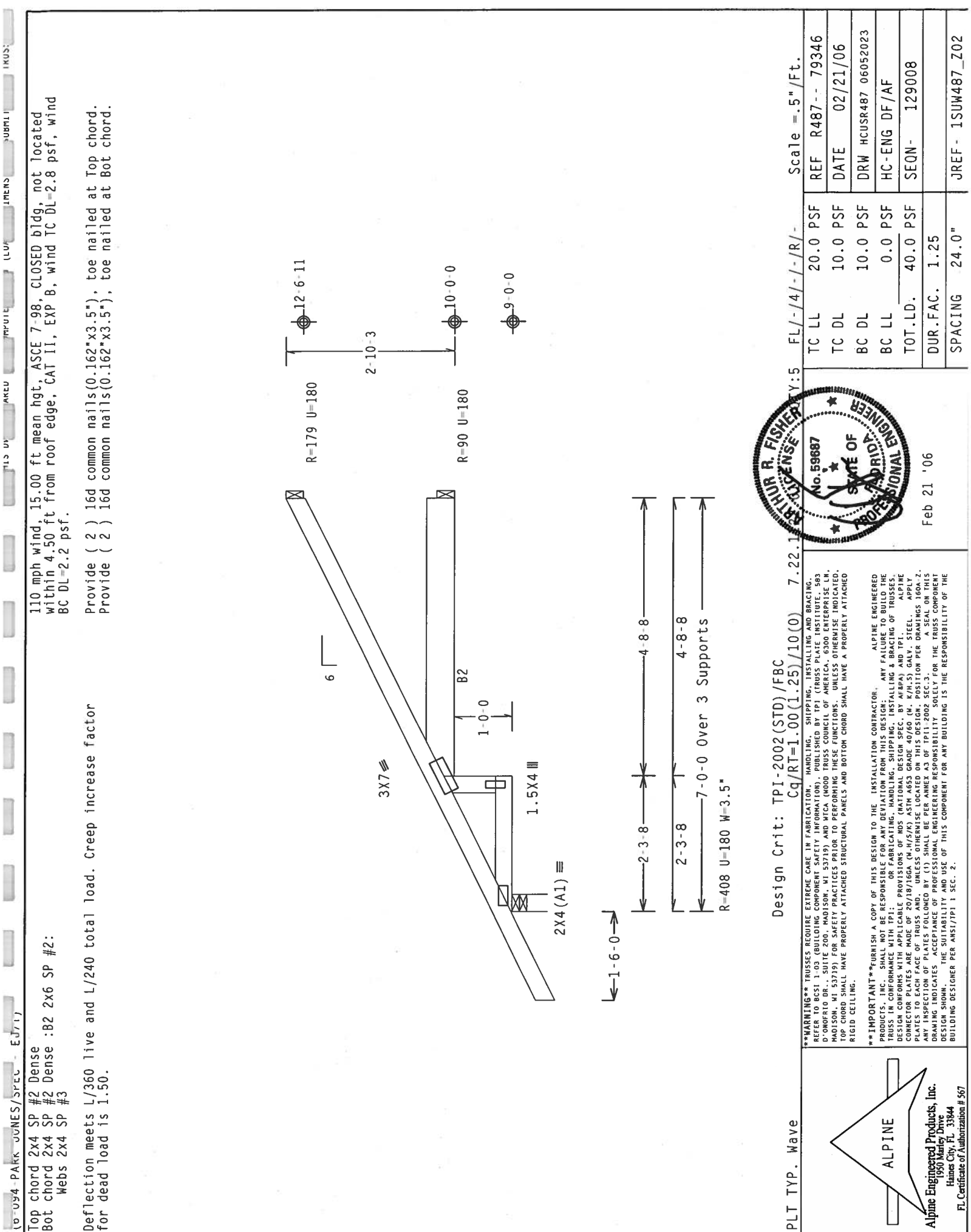
****IMPORTANT****FURNISH A COPY OF THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP11 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE TRUSS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE NATIONAL DESIGN SPEC. BY AFAPA) AND TP11. ALPINE ENGINEERED PRODUCTS SHALL PROVIDE PROVISIONS FOR CORROSION PROTECTION ON ALL EXPOSED STEEL. CONNECTOR PLATES ARE MADE OF GALVALUM. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. 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/TP11 SEC. 2.



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

FL Certificate of Authorization # 567





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

Scale = 5" / Ft.

TC LL	20.0 PSF	REF	R487 - - 79346
TC DL	10.0 PSF	DATE	02/21/06
BC DL	10.0 PSF	DRW	HCUSR487 06052023
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN-	129008
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SUW487_Z02

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REASONABLE CARE MUST BE EXERCISED TO PREVENT DAMAGE TO THE TRUSS. THE TRUSS IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS DESIGNED. THE TRUSS IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS DESIGNED. THE TRUSS IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS DESIGNED.

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

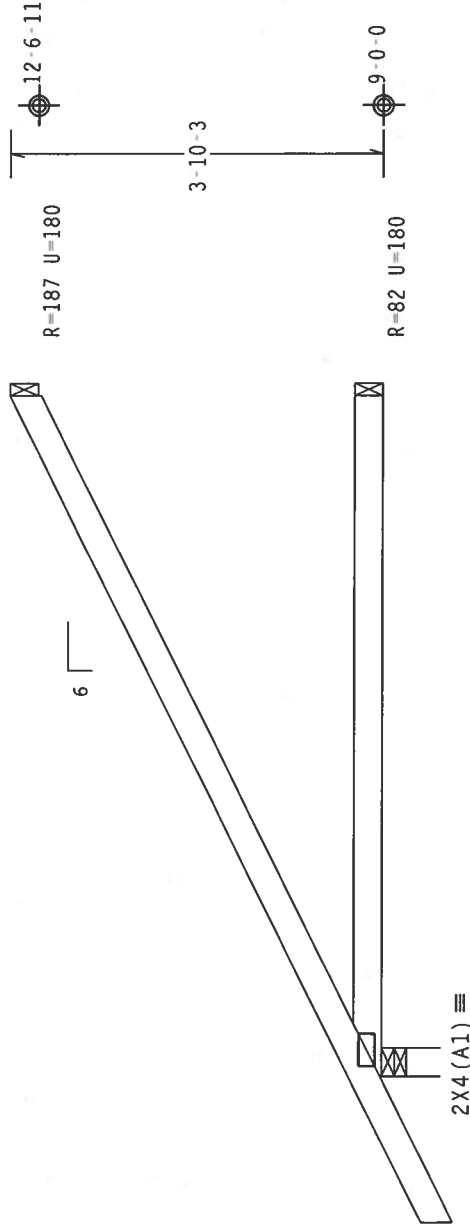
ALPINE
Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 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

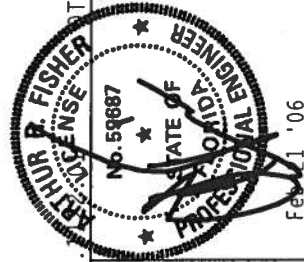
7-0-0
7-0-0 Over 3 Supports
R-408 U=180 W=3.5

Design Crit: TPI-2002(STD)/FBC

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

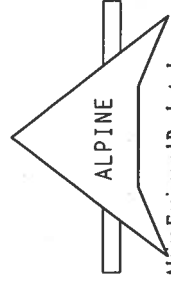
TY:28 FL/-4/-/R/-

Scale = 5"/Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), ENCL 583, D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA 6300 ENTERPRISE BLVD, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



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FL Certificate of Authorization # 567

PLT TYP. Wave

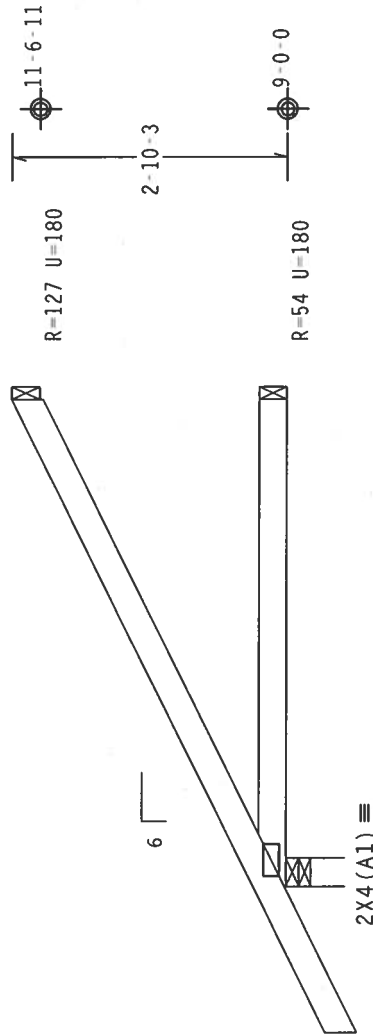
TC LL	20.0 PSF	REF	R487-- 79347
TC DL	10.0 PSF	DATE	02/21/06
BC DL	10.0 PSF	DRW	HCUSR487 06052024
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN-	129012
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SUW487_Z02

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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

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



→ 1 - 6 - 0 →

5-0-0 Over 3 Supports

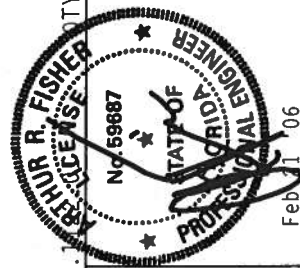
R=331 U=180 W=3.5"

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

Scale = 5" / 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 WEST 10TH AVENUE, SUITE 1970, DENVER, COLORADO 80202-5099) AND TPI TRUSS COUNCIL OF AMERICA, 6300 INTERSTATE LN., MADISON, WIS 53719, FOR SAFETY INSTRUCTIONS FOR PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED BRIGID 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. DESIGNER ASSUMES ALL APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TP1. 2. DESIGNER ASSUMES ALL APPLICABLE PROVISIONS OF AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), INC. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. (TP1-2). GAIN, STEEL. 3. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AME# 43 OF TP11-2002 SEC 3-1. SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE ANTI/TAP1 AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TP1 1 SEC. 2.



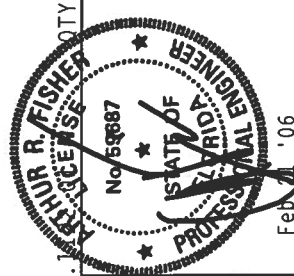
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

TC LL	20.0	PSF	REF R487 -- 79348
TC DL	10.0	PSF	DATE 02/21/06
BC DL	10.0	PSF	DRW HCUR487 06052025
BC LL	0.0	PSF	HC - ENG DF /AF
TOT.LD.	40.0	PSF	SEQN- 165890
DUR.FAC.	1.25		
SPACING	24.0"		JREF - 1SUW487_Z02

110 mph wind, 15.00 ft mean hat, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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

*ACCT SI DP01 DPAN JOI J079P1

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

TC LL	20.0	PSF	REF R487-- 79349
TC DL	10.0	PSF	DATE 02/21/06
BC DL	10.0	PSF	DRW HCURS487 06052026
BC LL	0.0	PSF	HC-ENG DF/AF
TOT.LD.	40.0	PSF	SEQN- 129034
DUR.FAC.	1.25		
SPACING	SEE ABOVE		JREF- 1SUW487_Z02

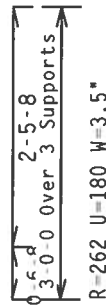
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO PCS1 TRUSS MANUFACTURING PRACTICES PART 01 OF THE TRUSS PANEL INSTITUTE'S TRUSS DESIGN GUIDE, D'DONDERO, JR., SUITE 200, MADISON, WI 53719, FOR MORE INFORMATION CONCERNING THESE COMMENTS AND COMMENTS ON THIS DRAWING. MR. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS, 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 FOLLOW THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PORTIONS OF NDS (NATIONAL DESIGN SPEC. BY NECA) AND TP1. ALPINE CONNECTOR PLATES ARE MADE OF 2X10/16GA (IN./H./K.) ASTM A653 GRADE 40/60 (IN. K/H-51 GALT). 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 TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



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

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



Scale = .5" / Ft.

* * * IMPORTANT * * * FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAILATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN SHALL BE AT THE CONTRACTOR'S RISK. THE DESIGN CONFORMS WITH THE REQUIREMENTS OF NDS (NATIONAL DESIGN SPEC. BY STEEL INSTITUTE), 2001 EDITION. CONNECTOR PLATES ARE MADE OF 2018/186GA. UNLESS OTHERWISE LOCATED ON 40/60 (4. H/5. H) GALV. STEEL PLATES TO EACH FACE OF TRUSS AND, IN THIS CASE, POSITION PER DRAWINGS 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4.3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP11 SEC. 2.



FL Certificate of Authorization # 567	FL BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2 -	SPACING	24.0"	JREF - 15UN
Haines City, FL 33844				

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

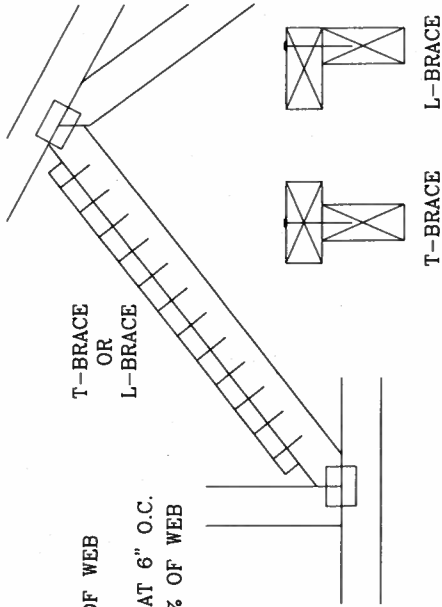
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

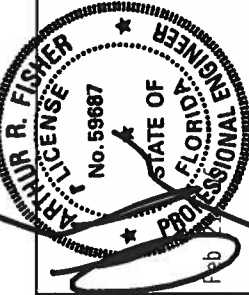
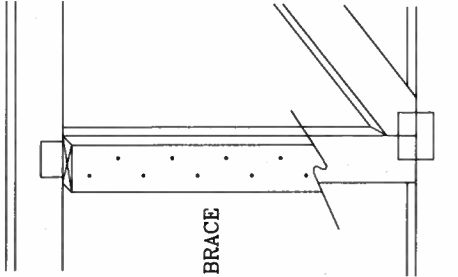
T-BRACING
OR
L-BRACING:

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



SCAB BRACING:

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



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 AND ALPINE ENGINEERED PRODUCTS, INC. FOR SAFETY GUIDELINES AND GOOD TRUSS COUNCIL OF AMERICA (GSA) ENTERPRISE DESIGNATION. 57191 FOR SAFETY PRACTICES BRIDGING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/57K) ASTM A653 GRADE 50 (K16/50) GALVALUME. ALL TRUSS CONNECTOR PLATES SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

THIS DRAWING REPLACES DRAWING 579.640

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

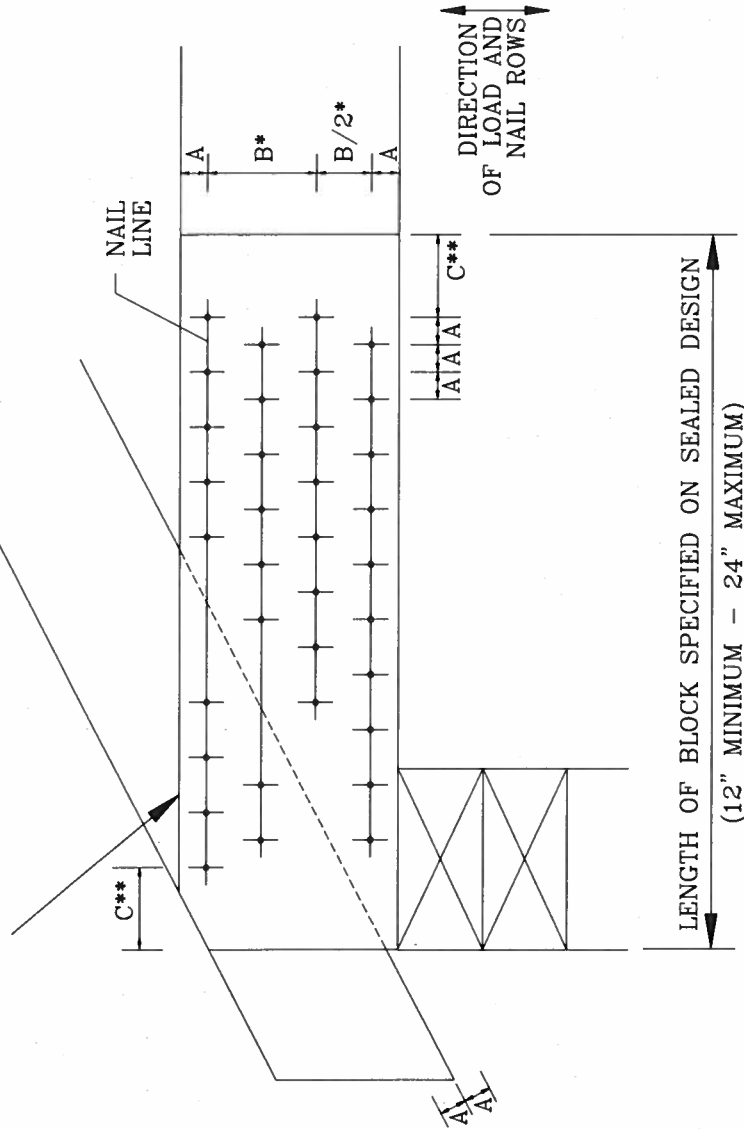
BEARING BLOCK NAIL SPACING DETAIL

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

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

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

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

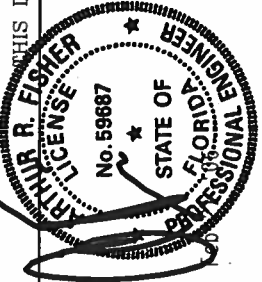


MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

MINIMUM NAIL SPACING DISTANCES

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



THIS DRAWING REPLACES DRAWING B139 AND CNBRGLK0699

REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGLK1103
-ENG	SJP/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 PLATE INSTITUTE, 983 DOWNSIDE DR., SUITE 200, MADISON, VT 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, VT 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

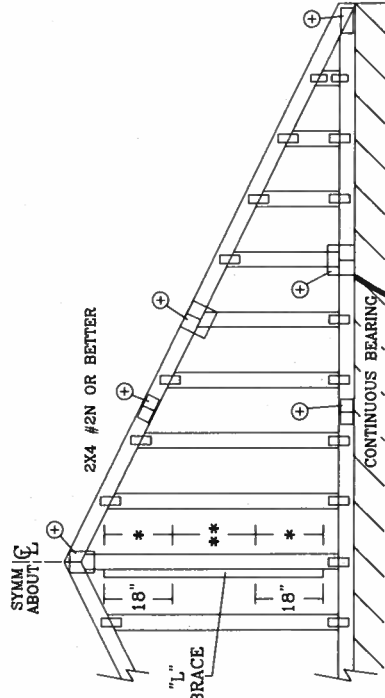
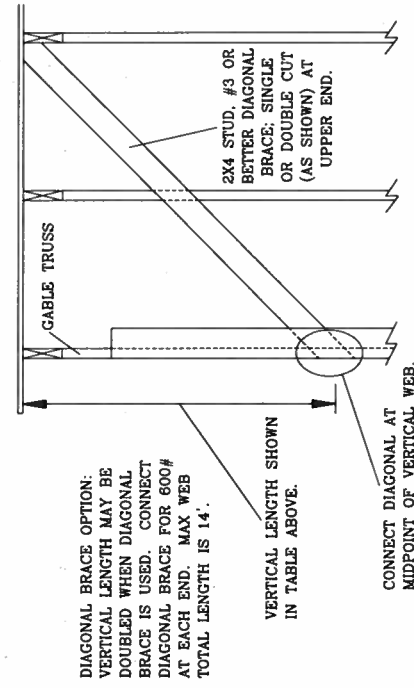
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/S/K) ASTM A653 GRADE 50/60 (W/AK/S) GALV. STEEL. STEEL CONNECTOR PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY ANNOTATION, SHALL BE PER ANNEC. A3 OF TPI 1-2003 SEC. 3. SEAL ON THIS BRACING INDICATES THE TRUSS WAS INSPECTED FOR SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

ASCE 7-98: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

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

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

GROUP B:

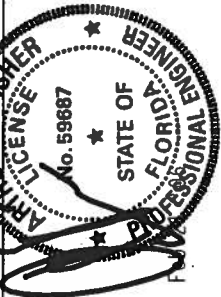
HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 30 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.

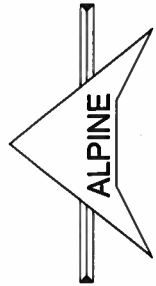


WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PRODUCTS, INC., 1500 W. 10TH AVE., SUITE 100, DENVER, CO 80202, FOR SAFETY PRECAUTIONS. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2017/16GA (4H/57K) ASTM A653 GRADE 50. ALL TRUSSES ARE DESIGNED AND MANUFACTURED IN THE U.S.A. AND ALL TRUSSES SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

REF	ASCE7-98-CABI1015
DATE	11/26/03
DRWG	A11015EC1103
-ENG	

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



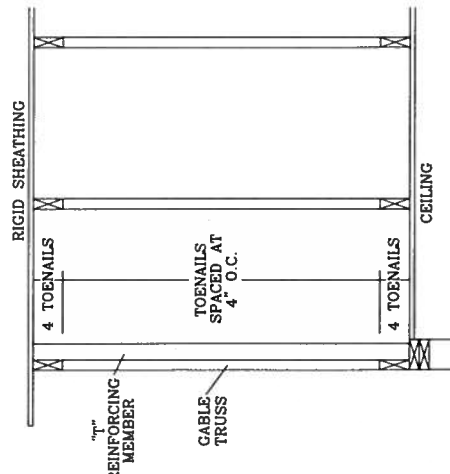
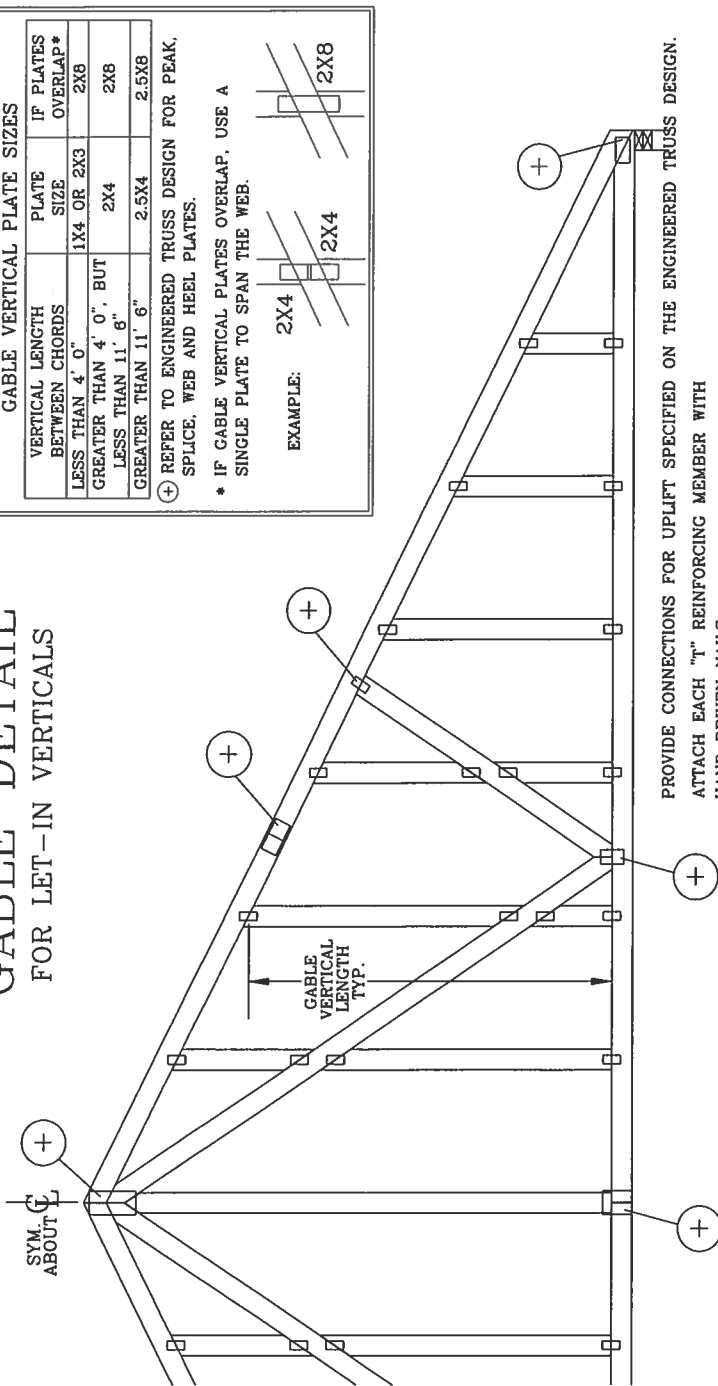
ALPINE ENGINEERED PRODUCTS, INC.
POMPANOA BEACH, FLORIDA

GABLE DETAIL FOR LET-IN VERTICALS

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

(+) REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.
 * IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

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

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

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

GUN DRIVEN NAILS:

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

(4) TOENAILS IN TOP AND BOTTOM CHORD.

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

ASCE 7-93 GABLE DETAIL DRAWINGS

AL1015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103

AL1030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL DRAWINGS

AL3015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103

AL3030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103

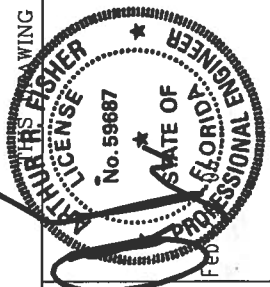
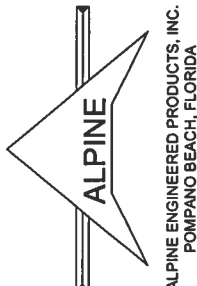
ASCE 7-02 GABLE DETAIL DRAWINGS

AL3015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405, A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 DONDORF DR., SUITE 200, MADISON, WI 53719) AND VTC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (V/H/S/X) ASTM A653 GRADE 40/60 (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 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE QUALITY AND SUITABILITY AND, THEREFORE, THE TRUSS CONFORMS TO THE DESIGN SHOWN. THE DESIGNER, PER ANSI/TPI 1 SEC. 2.



DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

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

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

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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

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

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"