

DATE 06/22/2006

Columbia County Building Permit

PERMIT
000024653

This Permit Expires One Year From the Date of Issue

APPLICANT MATT CASON PHONE 752-5152
ADDRESS 853 SW SISTERS WELCOME ROAD LAKE CITY FL 32025
OWNER BEN & MARGARITA LITTLE PHONE 752-5152
ADDRESS 317 SW WILSHIRE DRIVE LAKE CITY FL 32025
CONTRACTOR STANLEY CRAWFORD PHONE 752-5152

LOCATION OF PROPERTY 90W, TL ON 247S, TL ON CALLAHAN, TL ON CALLOWAY, TR ON PLEASANT, TR ON WILSHIRE, 4TH LOT ON RIGHT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 89200.00

HEATED FLOOR AREA 1784.00 TOTAL AREA 2538.00 HEIGHT 10.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 17

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 15-4S-16-03023-395 SUBDIVISION CALLAWAY

LOT 95 BLOCK PHASE UNIT 3 TOTAL ACRES

000001122

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 06-0494-N BK JH
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

24' CULVERTS ALLOWED, ALTERNATE TERMIT TREATMENT RECEIVED

Check # or Cash 8483

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 450.00 CERTIFICATION FEE \$ 12.69 SURCHARGE FEE \$ 12.69
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 \$ 25.00 TOTAL FEE 575.38
INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

This instrument was Prepared By:

STANLEY CRAWFORD CONSTRUCTION, INC. Inst:2006014796 Date:06/20/2006 Time:13:39
853 S.W. Sisters Welcome Rd.
Lake City, Florida 32025

h

DC, P. DeWitt Cason, Columbia County B:1087 P:776

PERMIT NO. _____

TAX FOLIO NO.: _____

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property: Callaway Unit III Lot 95
2. General description of improvement: Construction of Dwelling
3. Owner information:
Name and address: Benjamin F. or Margarita F. Little
260 N.W. Lona Loop
Lake City, FL 32055
Palm Beach, FL 33418
- b. Interest in property: Fee Simple
- c. Name and address of fee simple title holder (if other Than owner): NONE
4. Contractor: Stanley Crawford Construction, Inc.
853 S.W. Sisters Welcome Rd ,Lake City, FL 32025
5. Surety N/A
 - a. Name and address:
 - b. Amount of bond:
6. Lender: N/A
7. Persons within the State of Florida designated by Owner upon whom notices Or other documents may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes : NONE
8. In addition to himself, Owner designates Sharon Friedman, 15231 - 72nd Dr., North, Palm Beach, Florida 33418 to receive a copy of the Lienor's Notice as provided in section 713.13 (1) (b), Florida Statutes.
9. Expiration date of notice of commencement (the expiration date is 1 year from The date of recording unless a different date is specified).

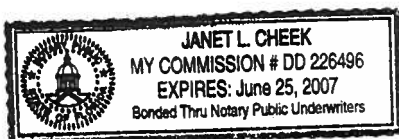
Benjamin F. Little

Margarita F. Little

The foregoing instrument was acknowledged before me this 8th day of June, 2006, by Benjamin F. Little, Margarita F. Little, who are personally known to me and who did not take an oath.

Janet L. Cheek
Notary Public

My Commission Expires: June 25, 2007



Columbia County Building Permit Application

Revised 9-23-01

For Office Use Only Application # 0606-23 Date Received 6/8 By SW Permit # 06-37H 07790
 Application Approved by - Zoning Official BLK Date 21.06.06 Plans Examiner _____ Date _____
 Flood Zone X 812 Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RLD
 Comments 24' culverts allowed CK# 8483

Applicants Name Matt Cason Phone 752-5152
 Address 853 SW Sisters Welcome Rd LC FL 32025
 Owners Name Ben & Margarita Little Phone 752-5152
 911 Address 317 SW Wilshire Dr. LC FL 32025
 Contractors Name SCCI Phone 752-5152
 Address 853 SW Sisters Welcome Rd LC FL 32025

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Mark Disaway LC FL 32025 754-5419Mortgage Lenders Name & Address N/ACircle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive EnergyProperty ID Number 15-45-16-03023-395 Estimated Cost of Construction 100,000Subdivision Name Callaway Lot 95 Block _____ Unit III Phase IIIDriving Directions 90W, TL on CR 247, TL on Callahan, TL on Calloway
TR on Pheasant, TR on Wilshire, Lot around on R.
4th lot on rightType of Construction Residential Number of Existing Dwellings on Property 0Total Acreage .5 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing DriveActual Distance of Structure from Property Lines - Front 40 Side 35 Side 30 Rear 72Total Building Height 17' Number of Stories 1 Heated Floor Area 1784 Roof Pitch 6/12
Porch 232 GARAGE 521 TOTAL 2539

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.

Stanley Cason
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

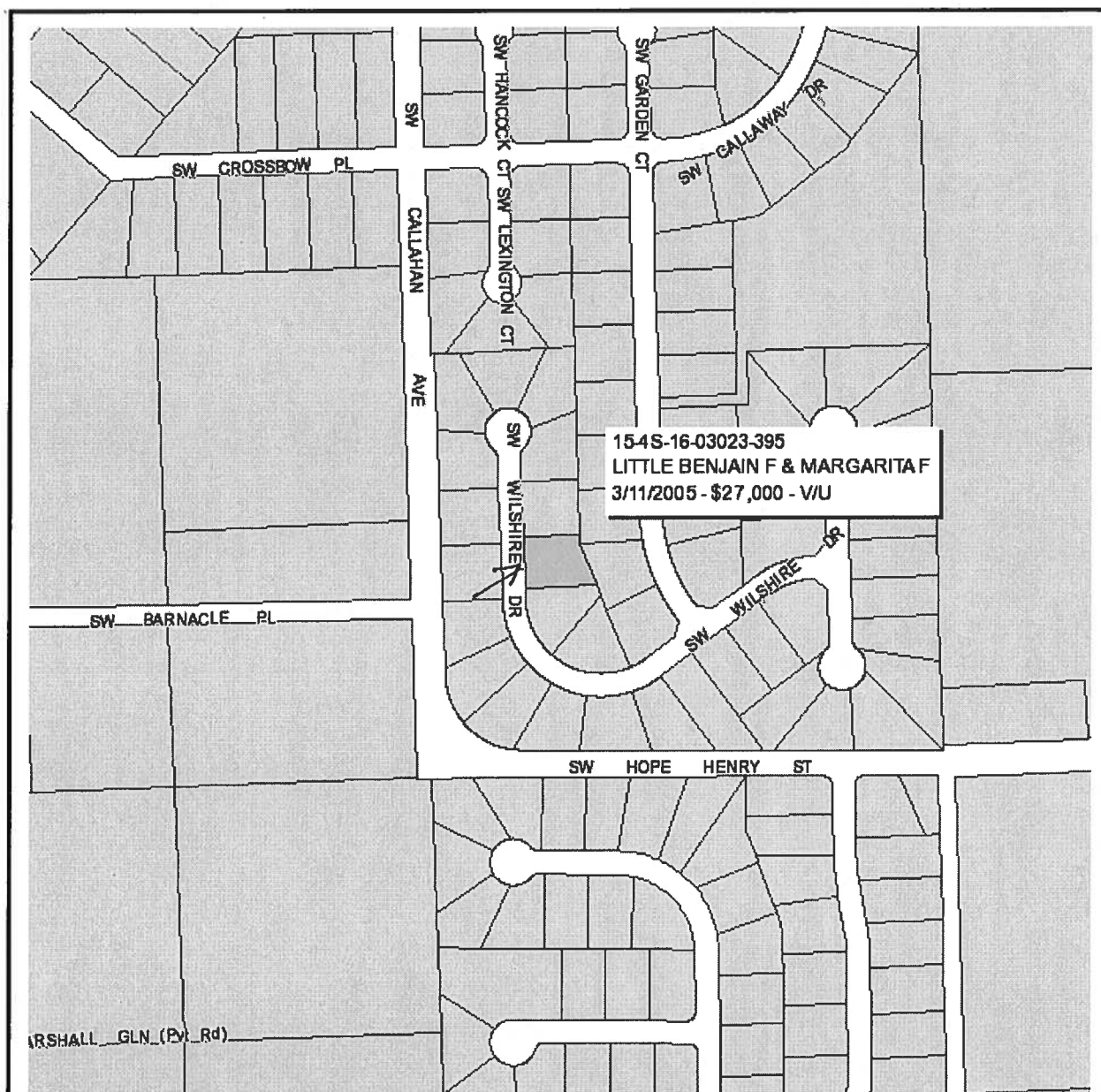


Sworn to (or affirmed) and subscribed before me
 this 8th day of June 2006.

Personally known ✓ or Produced Identification _____

Stanley Cason
 Contractor Signature
 Contractors License Number RG-0042896
 Competency Card Number 5627
 NOTARY STAMP/SEAL

Janet L. Cheek
 Notary Signature



Columbia County Property Appraiser

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

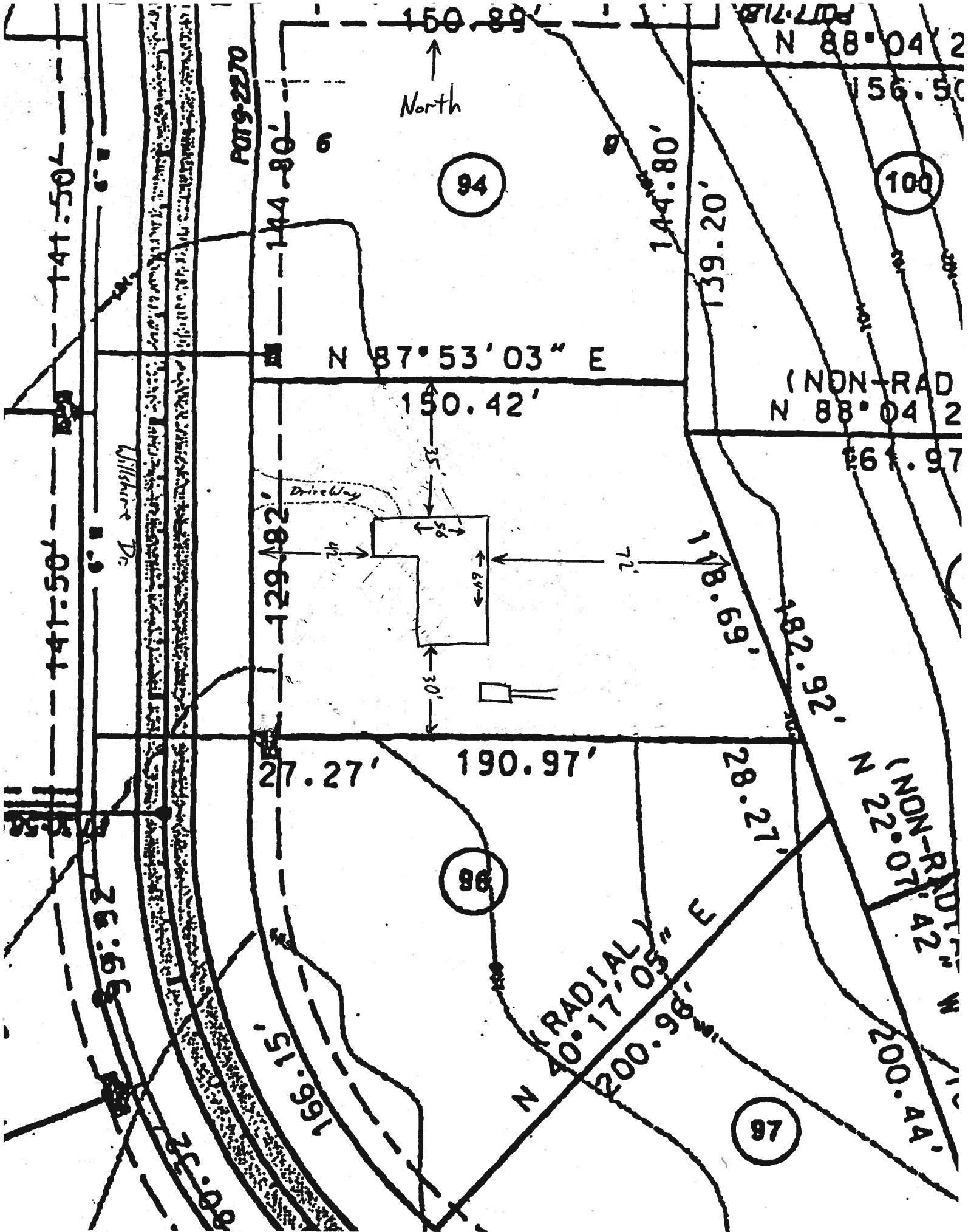
PARCEL: 15-4S-16-03023-395 - VACANT (000000)

Name: LITTLE BENJAIN F & MARGARITA F	LandVal	\$34,000.00
Site: WILSHIRE	BldgVal	\$0.00
260 NW LONA LOOP	ApprVal	\$34,000.00
Mail: LAKE CITY, FL 32055	JustVal	\$34,000.00
Sales 3/11/2005 \$27,000.00 V / U	Assd	\$34,000.00
Info 4/26/2004 \$23,900.00 V / Q	Exmpt	\$0.00
	Taxable	\$34,000.00

0 180 360 540 ft



This information, GIS Map Updated: 5/5/2006, 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, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



Prepared by:
Elaine R. Davis
American Title Services of Lake City, Inc.
330 SW Main Boulevard
Lake City, Florida 32025

File Number: 05-204

Inst:2005005870 Date:03/14/2005 Time:11:48

Doc Stamp-Deed : 189.00

ML DC, P. DeWitt Cason, Columbia County B:1040 P:1277

Warranty Deed

Made this March 11, 2005 A.D.

By **John A. Kasak and Joanne Kasak, husband and wife**, 904 SW SR 247, Lake City, Fl. 32025, hereinafter called the grantor, to

Benjamin F. Little and Margarita F. Little, husband and wife, whose post office address is: 260 NW Lona Loop, Lake City, FL. 32055, hereinafter called the grantee:

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

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 95 of Callaway Phase Three, according to the Plat thereof as recorded in Plat Book 7 Page 145 of the Public Records of Columbia County, Florida.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: 03023-099

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

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

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2004.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Elaine R. Davis

Witness Printed Name Elaine R. Davis

John A. Kasak

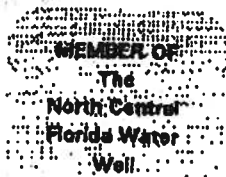
John A. Kasak

Address: 904 SW SR 247, Lake City, Fl. 32025

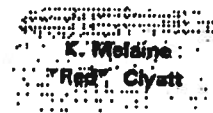
(Seal)

Joanne Kasak

(Seal)



Clyatt Well Drilling, Inc.
(Established in 1971)
POST OFFICE BOX 180
WORTHINGTON SPRINGS, FLORIDA 32697



Telephone Number (386)496-2488
FAX Number (386)496-4640

June 18, 2002

Columbia County Building Department
Post Office Box 1529
Lake City, Florida 32056

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the above-referenced well:

Size of Pump Motor:	1-1/2 Horse Power
Size of Pressure Tank:	220 Gallon Equivalent
Cycle Stop Valve Used:	No

Should you require any additional information, please do not hesitate to contact us.

Respectfully,

CLYATT WELL DRILLING, INC.

K. Melaine "Red" Clyatt
President

Clyatt Well Drilling, Inc.

(Established in 1971)

POST OFFICE BOX 180

WORTHINGTON SPRINGS, FLORIDA 32697

Telephone Number (386)496-2488

FAX Number (386)496-4640

MEMBER OF
The
North Central
Florida Water
Well

K. Melvin
"Red" Clyatt

**PUMP AND TANK SPECIFICATIONS FOR
STANDARD 4" RESIDENTIAL WELLS**

PUMPS

**1 Horse Power Submersible Pump
20 Gallons Per Minute
Voltage: 240
Phase: (Single) 1**

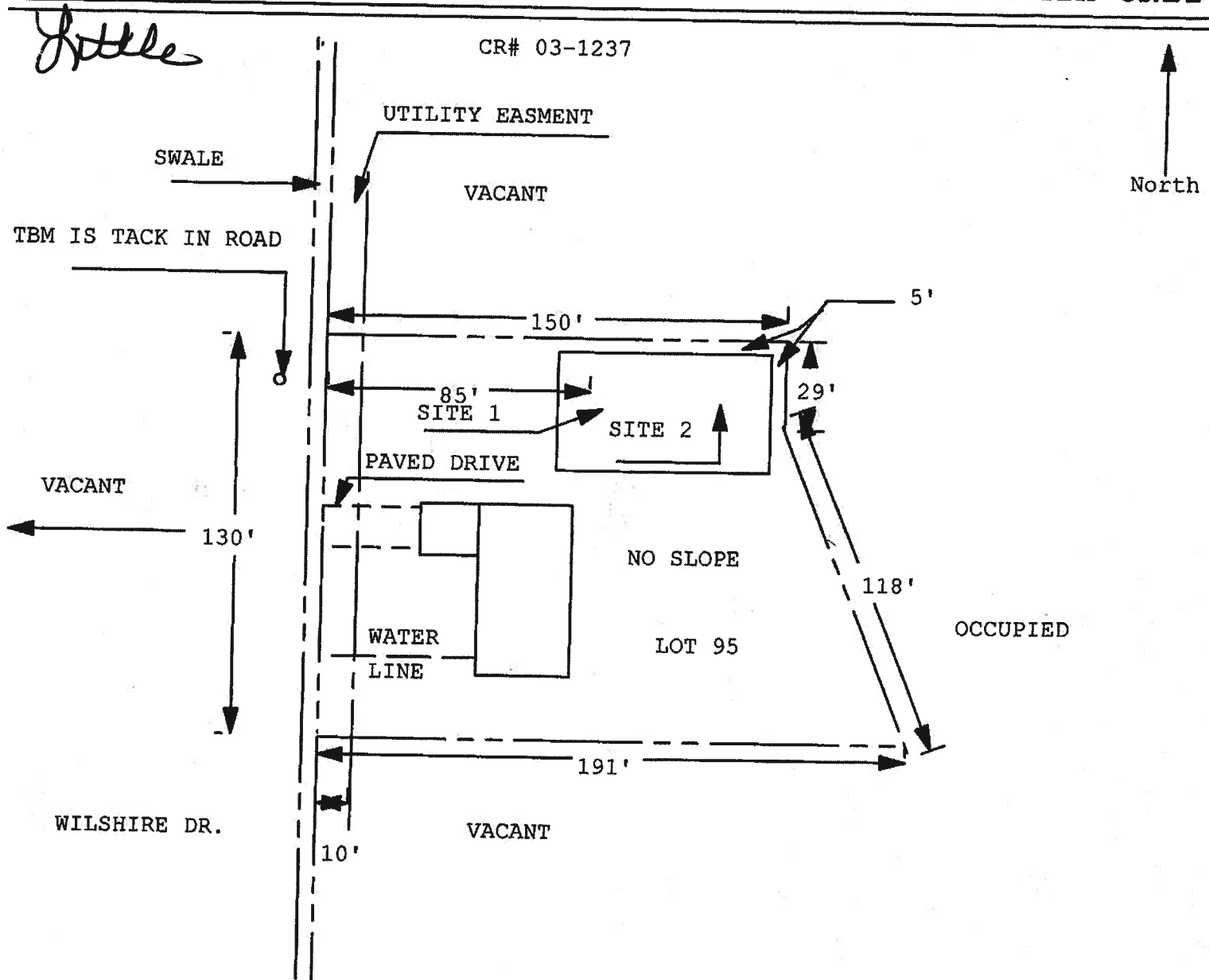
**1.5 Horse Power Submersible Pump
25 Gallons Per Minute
Voltage: 240
Phase: (Single) 1**

TANK

**WF-255 Captive Air Tank
Capacity 81 Gallons
Equivalent 220 Gallons
Draw Down 25 Gallons**

Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan
Permit Application Number: 06-0494N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



1 inch = 50 feet

Site Plan Submitted By *Paul D. [Signature]* Date 5/16/06
Plan Approved _____ Not Approved _____ Date _____

By *Mark S. Lander* *Columbia* CPHU

Notes: _____

FORM 600A-2004

EnergyGauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **LITTLE**
Address:
City, State:
Owner:
Climate Zone: **North**

Builder: **STAN CRAWFORD**
Permitting Office: **Columbia**
Permit Number: **24653**
Jurisdiction Number: **221000**

1. New construction or existing **New**
2. Single family or multi-family **Single family**
3. Number of units, if multi-family **1**
4. Number of Bedrooms **3**
5. Is this a worst case? **Yes**
6. Conditioned floor area (ft²) **1784 ft²**
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)
 - a. U-factor; Description Area
(or Single or Double DEFAULT) 7a. (Dble Default) 241.0 ft²
 - b. SHGC;
(or Clear or Tint DEFAULT) 7b. (Clear) 241.0 ft²
8. Floor types
 - a. Slab-On-Grade Edge Insulation **R=0.0, 208.0(p) ft**
 - b. N/A
 - c. N/A
9. Wall types
 - a. Frame, Wood, Exterior **R=13.0, 1198.0 ft²**
 - b. Frame, Wood, Adjacent **R=13.0, 190.0 ft²**
 - c. N/A
 - d. N/A
 - e. N/A
10. Ceiling types
 - a. Under Attic **R=30.0, 1784.0 ft²**
 - b. Under Attic **R=19.0, 88.0 ft²**
 - c. N/A
11. Ducts
 - a. Sup: Unc. Ret: Unc. AH: Interior **Sup. R=6.0, 198.0 ft**
 - b. N/A

12. Cooling systems
 - a. Central Unit **Cap: 36.0 kBtu/hr**
SEER: 13.00
 - b. N/A
 - c. N/A
13. Heating systems
 - a. Electric Heat Pump **Cap: 37.0 kBtu/hr**
HSPF: 7.00
 - b. N/A
 - c. N/A
14. Hot water systems
 - a. Electric Resistance **Cap: 50.0 gallons**
EF: 0.92
 - b. N/A
 - c. Conservation credits
(HR-Heat recovery, Solar
DHP-Dedicated heat pump)
15. HVAC credits
(CF-Ceiling fan, CV-Cross ventilation,
HF-Whole house fan,
PT-Programmable Thermostat,
MZ-C-Multizone cooling,
MZ-H-Multizone heating)

Glass/Floor Area: 0.14

Total as-built points: 24174

Total base points: 26389

PASS

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

PREPARED BY: _____

DATE: **5/30/06**

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____



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

FORM 600A-2004

EnergyGauge® 4.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Overhang Type/SC Omt Len Hgt Area X SPM X SOF = Points							
.18	1784.0	20.04	6435.2	Double, Clear	E	2.0	6.0	45.0	42.06	0.85	1605.2
				Double, Clear	N	2.0	6.0	45.0	19.20	0.90	777.7
				Double, Clear	W	2.0	6.0	132.0	38.52	0.85	4319.3
				Double, Clear	S	2.0	6.0	18.0	35.67	0.76	528.6
				As-Built Total:				241.0			7231.0
WALL TYPES											
Area X BSPM = Points				Type R-Value Area X SPM = Points							
Adjacent	190.0	0.70	133.0	Frame, Wood, Exterior		13.0	1198.0	1.50			1767.0
Exterior	1188.0	1.70	2038.6	Frame, Wood, Adjacent		13.0	190.0	0.60			114.0
Base Total:				As-Built Total:				1388.0			1911.0
DOOR TYPES											
Area X BSPM = Points				Type Area X SPM = Points							
Adjacent	18.0	2.40	43.2	Exterior Insulated			28.0	4.10			114.8
Exterior	28.0	6.10	170.8	Adjacent Insulated			18.0	1.60			28.8
Base Total:				As-Built Total:				46.0			143.6
CEILING TYPES											
Area X BSPM = Points				Type R-Value Area X SPM X SCM = Points							
Under Attic	1784.0	1.73	3086.3	Under Attic		30.0	1784.0	1.73 X 1.00			3086.3
				Under Attic		19.0	88.0	2.34 X 1.00			205.9
Base Total:				As-Built Total:				1872.0			3292.2
FLOOR TYPES											
Area X BSPM = Points				Type R-Value Area X SPM = Points							
Slab	208.0(p)	-37.0	-7696.0	Slab-On-Grade Edge Insulation		0.0	208.0(p)	-41.20			-8569.6
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				208.0			-8569.6
INFILTRATION											
Area X BSPM = Points				Area X SPM = Points							
1784.0 10.21 18214.6				1784.0 10.21 18214.6							

FORM 600A-2004

EnergyGauge® 4.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 22423.8			Summer As-Built Points: 22222.9					
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
22423.8	0.4266	9566.0	(eqs 1: Central Unit 36000 btuh, SEER/EFF(13.0) Ducts: Uno(S), Uno(R), Ins(AH), R0.0(INS) 22223 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 6637.8 22222.9 1.00 1.138 0.263 1.000 6637.8					

FORM 600A-2004

EnergyGauge® 4.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT					
Winter Base Points: 14214.9			Winter As-Built Points: 17011.1					
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHJ)	X System Multiplier	X Credit Multiplier	= Heating Points
14214.9	0.6274	8918.4	(sys 1: Electric Heat Pump 37000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 17011.1 1.000 (1.069 x 1.169 x 0.93) 0.487 1.000 9630.8 17011.1 1.00 1.162 0.487 1.000 9630.8					

FORM 600A-2004

EnergyGauge® 4.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt			Area X WPM X WOF = Points			
.18	1784.0	12.74	4091.1	Double, Clear	E	2.0	6.0	45.0	18.79	1.08	698.9
				Double, Clear	N	2.0	6.0	45.0	24.58	1.00	1111.2
				Double, Clear	W	2.0	6.0	132.0	20.73	1.04	2853.0
				Double, Clear	S	2.0	6.0	19.0	13.30	1.28	318.0
				As-Built Total:				241.0		8179.0	
WALL TYPES											
Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	190.0	3.60	684.0	Frame, Wood, Exterior	13.0			1198.0	3.40	4073.2	
Exterior	1198.0	3.70	4432.6	Frame, Wood, Adjacent	13.0			190.0	3.30	627.0	
Base Total:				As-Built Total:				1388.0		4700.2	
DOOR TYPES											
Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	18.0	11.50	207.0	Exterior Insulated				28.0	8.40	236.2	
Exterior	28.0	12.30	344.4	Adjacent Insulated				18.0	8.00	144.0	
Base Total:				As-Built Total:				46.0		379.2	
CEILING TYPES											
Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	1784.0	2.05	3657.2	Under Attic	30.0			1784.0	2.05 X 1.00	3657.2	
				Under Attic	19.0			88.0	2.70 X 1.00	237.6	
Base Total:				As-Built Total:				1872.0		3894.8	
FLOOR TYPES											
Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	208.0(p)	8.9	1851.2	Slab-On-Grade Edge Insulation	0.0			208.0(p)	18.80	3910.4	
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				208.0		3910.4	
INFILTRATION											
Area X BWPM = Points							Area X WPM = Points				
	1784.0	-0.69	-1052.6				1784.0	-0.69	-1052.6		

FORM 600A-2004

EnergyGauge® 4.0

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

ADDRESS: , , ,

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		2635.00	7905.0	50.0	0.92	3	1.00	2635.00	1.00 7905.0
				As-Built Total:				7905.0	

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
9588		8918	7905 26389	6638		9631	7905 24174

PASS

FORM 600A-2004

EnergyGauge® 4.0

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked air breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 76%.	
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* = 84.8

The higher the score, the more efficient the home.

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 36.0 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)	1784 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 37.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default) 241.0 ft ²			HSFP: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 241.0 ft ²		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 208.0(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, 1198.0 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 190.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1784.0 ft ²	MZ-C-Multizone cooling,	
b. Under Attic	R=19.0, 88.0 ft ²	MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 198.0 ft		
b. N/A			

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

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



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

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCSB v4.0)

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001122

DATE 06/22/2006 PARCEL ID # 15-4S-16-03023-395

APPLICANT MATT CASON PHONE 752-5152

ADDRESS 853 SW SISTERS WELCOME ROAD LAKE CITY FL 32025

OWNER BEN & MARGARITA LITTLE PHONE 752-5152

ADDRESS 317 SW WILSHIRE DRIVE LAKE CITY FL 32025

CONTRACTOR STANLEY CRAWFORD PHONE 752-5152

LOCATION OF PROPERTY 90W, TL ON 247S, TL ON CALLAHAN, TL ON CALLOWAY, TR ON

PLEASANT, TR ON WILSHIRE, 4TH LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CALLAWAY 95 3

SIGNATURE

INSTALLATION REQUIREMENTS

☐

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

INSTALLATION NOTE: Turnouts will be required as follows:

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

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

☐

Culvert installation shall conform to the approved site plan standards.

☐

Department of Transportation Permit installation approved standards.

☒

Other 24' CULVERTS ALLOWED FOR THIS SUBDIVISION

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

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

Amount Paid 25.00



CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822

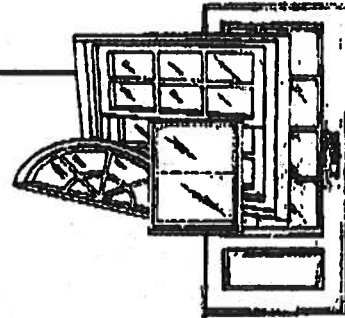
(407) 384-7744 • Fax (407) 384-7751

Web Site: www.ctilarch.com

E-mail: ctilarch.com

Report Number: CTLA-991W-1-AWT

Report Date: February 18, 2003



STRUCTURAL PERFORMANCE TEST REPORT

Client: ACTION WINDOW TECHNOLOGY INC
1312 W. CROSBY ROAD
CARROLLTON, TX 75006

Product Type and Series: AWT Series 3950 Vinyl Fin Frame Single Hung Window with Reinforced Sash Top Rail, Stiles & Meeting Rail H-R40 (36"x 72")

Test Specifications: AAMA/NWWDA 101/ISO 2-97 "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

Frame: Vinyl Fin frame measured 35.50" wide x 71.50" high overall. Mitered corner weld construction. Fixed meeting rail secured to each frame jamb with one (1) #8 x 2" PH., PH. screw.

Ventilator: Operable sash measured 33.375" wide x 35.25" high overall. Mitered corner weld construction. Clear lite measured 31.5625" high x 33.5625" high. Fixed lite measured 32.50" wide x 33.4375" high.

Weather Stripping: One (1) strip of woolpile .220" high with integral plastic fin frame sill. One (1) strip of woolpile .250" high with integral plastic fin sash top rail exterior. One (1) strip of woolpile .250" high each sash stile exterior leg. One (1) strip of woolpile .250" high with integral plastic fin each sash stile interior leg. One (1) strip of foam filled bulb weatherstrip sash bottom rail.

Hardware & Location: Two (2) metallic sweep locks located on sash top rail approx 8" from each end of rail. Two (2) metallic keepers located on fixed meeting rail. One (1) tilt latch at each end of sash top rail. One (1) block and tackle at each frame jamb. One (1) pivot bar at each end of sash bottom rail.

Glazing: 5/8" insulated annealed glass consisting of .125" glass .375" air space with swiggle .125" glass. Sash exterior glazed. Fixed lite interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

Sealant: A silicone type sealant was used on sill and to seal specimen to test buck.

Weep System: Weep notch measuring 2.25" x leg height located each end of sill weeping to the exterior.

Muntins: N/A

Reinforcement: Fixed meeting rail has one (1) piece of extruded aluminum reinforcement measuring .662" wide x .755" high x .099" thick x full length. Top rail, and sash stiles has one (1) piece of extruded aluminum reinforcement measuring .590" wide x .995" high x .115" thick x full length.

Additional Description: N/A

Screen: Roll formed aluminum frame, fiberglass mesh with vinyl spline. Two (2) metallic retainer clips and two (2) metallic plungers. Corners secured with plastic corner keys

Installation: Twenty-six (26) 1.75" roofing nails were used to secure the specimen to the wood test buck. Five (5) were located in head and sill measuring 4", 13", 21", 29", and 33" from left jamb. Eight (8) were located in each jamb measuring 4.50", 14.25", 24", 32.75", 42", 57.25", 60.50" and 70" from sill.

Surface Finish: White Vinyl

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

Performance Test Results

Paragraph No	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.18 cfm/ft ²	.34 cfm/ft ²
The tested specimen meets or exceeds the performance levels specified in AAMA/NWWDA 101/1.5-97. Results recorded in two (2) decimals at the clients request. Unit tested with shims installed under cam locks.				
2.1.3	Water Resistance @ 5.0 gph/ft ²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6.75 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
Unit tested with insect screen.				
2.1.3	Water Resistance @ 5.0 gph/ft ²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
Unit tested without insect screen.				
2.1.4.2	Uniform Load Structural Permanent Deformation @ 60 psf positive @ 60 psf negative	ASTM E330-90 Ten (10) second load	.015" .005"	.134" .134"
2.1.8	Forced Entry Resistance	AAMA 1302.5-76		
	Test A		0"	1/2"
	Test B		0"	1/2"
	Test C		0"	1/2"
	Test D, E and F		0"	1/2"
	Test G		0"	1/2"

Performance Test Results (continued)

Paragraph No	Title of Test	Method	Measured	Allowed
2.2.2.5.1	Operating Force Sash	AAMA/NWWDA 101/IS-2-97	18 lbs.	30 lbs.
2.2.2.5.2	De-glazing	ASTM E987-88		
	Top Rail 70 lbs.		.039" = 7.8% < 100%	
	Bottom Rail 70 lbs.		.038" = 7.6% < 100%	
	Left Side 50 lbs.		.050" = 10% < 100%	
	Right Side 50 lbs.		.035" = 7.0% < 100%	
2.1.7	Welded Corner Test	AAMA/NWWDA 101/IS-2-97	Passed	

Test Date November 21, 2002

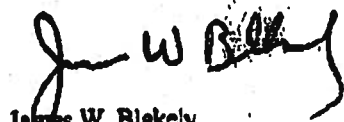
Test Completion Date: November 21, 2002

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.



James W. Blakely
Vice President
Architectural Division

cc: Action Window Technology Inc. (3)
File (1)

Report Number: ETC-04-034-14644.0
Test Start Date: 04/10/03
Test Finish Date: 03/16/04
Report Date: 03/18/04
Expiration Date: 03/18/08

Penetration Structural Test Report
Rendered To:

Vinyl Building Products, Inc.
One Raritan Road
Oakland, NJ 07436

Series/Model
2900 Horizontal Slider (OX)

Description: The product tested was a vinyl Horizontal Sliding window. The test specimen was glazed with 5/8-inch thick insulating glass units constructed with double strength annealed glass. The frame size was 69 inches wide by 48 inches high by 2-3/4 inches deep. See Appendix A.

Test Specification: ANSI/AAMA/NWDA 101/I.S.2

Summary of Results

Overall Design Pressure	35.0 psf
Air Leakage Rate	0.18 scfm/ft ²
Maximum Water Pressure Achieved	5.25 psf
Maximum Structural Pressure Achieved	60.0 psf
Forced Entry Resistance - (ASTM)	Grade 10

Product Designation **H-R35 69 x 48**

TEST REPORT

ETC Laboratories

Specifications: The test specimen was evaluated in accordance with ANSI/AAMA/NWDA 101/I.S.2 "Voluntary Specification for Aluminum, Vinyl and Wood Windows and Glass Doors". Sections 1, 2 and 4 only. All performance specifications in this standard shall be met for full compliance to the standard and for product certification, labeling or represented as conforming to this standard.

Referenced Test Reports: NONE

Note - The test data in any section below with an "RTR" comment have not been obtained from this specimen but from the Referenced Test Report with a specimen of the same or larger size and identical construction.

Design Pressure (DP): The product tested herein has been first evaluated to the Gateway pressure in the referenced specification for the performance class rating achieved.

Gateway Performance Tests

<u>Specification Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	<u>Air Infiltration - ASTM E283</u> Test Pressure - 1.57 psf The tested specimen exceeds the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2 for air infiltration.	0.18 scfm/ft ²	0.30 scfm/ft ²
2.1.3	<u>Water Resistance - ASTM E547</u> 5 gal/hr-ft ² - 4 Test cycles - 24 Minutes Design Pressure - 15.0 psf Test Pressure - 2.86 psf With and Without Screen	Pass	No Leakage
2.1.4.2	<u>Uniform Structural Load - ASTM E330</u> Design Pressure - 15.0 psf Test Pressure Positive Load - 22.5 psf (150% x DP) Negative Load - 22.5 psf (150% x DP) Note: Measurement taken after load from center of the meeting stile	0.033 in. 0.020 in.	0.177 in. 0.177 in.
2.1.7	<u>Corner Weld</u> Frame - 4 Corners Sashes - 4 Corners	Pass Pass	< 100% < 100%
2.1.8	<u>Forced Entry Resistance - ASTM F588</u> Lock/Tool Manipulation Tests A1 through A7 Lock/Tool Manipulation	Pass Pass Pass	No Entry No Entry No Entry
2.2.1.6.1	<u>Operating Force - No Standardized Method</u> Right Sash - Open/Close	18/18 lbf	20 lbf
2.2.1.6.2	<u>De-glazing - ASTM E987</u> Right Sash: Left Stile - 70 lbf Right Stile - 70 lbf Top Rail - 50 lbf Bottom Rail - 50 lbf	0.0% 0.0% 0.0% 0.0%	<100% <100% <100% <100%

Optional Performance Tests

The manufacturer specified herein has successfully achieved all the required criteria in Section 2 of the referenced specification for the Gateway size of the achieved Performance Rating and has further successfully tested the product to higher performance levels as indicated below.

Design Pressure (DP): The product tested herein has been additionally evaluated to the Design Pressure referenced below.

Specification

<u>Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
4.3	<u>Water Resistance - ASTM E547</u> 5 gal/hr-ft ² - 4 Test cycles - 24 Minutes Design Pressure - 35.0 psf Test Pressure - 5.25 psf (15% x DP) With and Without Screen	Pass	No Leakage
4.4	<u>Uniform Structural Load - ASTM E330</u> Design Pressure - 40.0 psf Test Pressure Positive Load - 60.0 psf (150% x DP) Negative Load - 60.0 psf (150% x DP) Note: Measurement taken after load from center of meeting stile	0.069 in. 0.066 in.	0.177 in. 0.177 in.

Conditions, Terms, and General Notes Regarding These Tests

The product tested Has Been compared to the detailed drawings, bill of materials and fabrication information supplied by the client so named herein. Our analysis, which includes dimensional and component description comparisons, indicate the tested product and engineering information supplied by the client "Are Equivalent". See Appendix A. The report and representative samples will be retained for four years from the date of initial test.

These test results were obtained by employing all requirements of the designated test methods with no deviations. The test results and specimen supplied for testing are in compliance with the referenced specifications.

The test results are specific to the product tested by this laboratory and of the sample supplied by the client named herein, and they relate to no other product either manufactured by the client, a Fabricator of the client or of installed field performance.

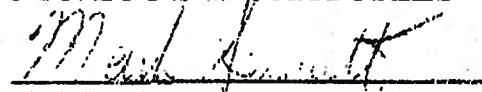
This report does not constitute an AAMA or NWWDA certified product under the certification programs of these organizations. The program administrator of these programs and organizations may only grant product certification.

ETC Laboratories makes no opinions or endorsements regarding this product and its performance. This report may not be reproduced or quoted in partial form without the expressed written approval of ETC Laboratories.

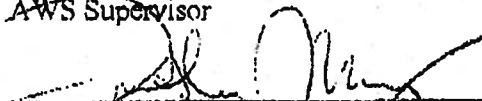
No conclusions of any kind regarding the adequacy of the glass in the test specimen may be drawn from the test. Procedure "A" in ASTM E330 was used for this test.

ETC Laboratories letters, reports, its name or insignia or mark are for the exclusive use of the client so named herein and any other use is strictly prohibited. The report, letters and the name of ETC Laboratories, its seal or mark shall not be used in any circumstance to the general public or in any advertising.

Limitation of Liability: Due diligence was used in rendering this professional opinion. By acceptance of this report, this client agrees to hold harmless and indemnify ETC Laboratories, its employees and offices and owners against all claims and demands of any kind whatsoever, which arise out of or in any manner connected with the performance of work referred to herein.

FOR ETC LABORATORIES


Mark Sennett
AWS Supervisor



Arthur Murray, VP
Manager, Wind Engineering Laboratory

TEST REPORT

ETC Laboratories



March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:

ASTM D3462

PA 100 (110 mph uplift and wind driven rain resistance)

PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 –

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* –

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* –

PA 100 = 4 nails

PA 107 = 4 nails

MD NOA# = 01-1226.03

Capstone*

PA 100 = 4 Nails

PA 107 = 4 Nails

MD NOA# = 01-0523.01

* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

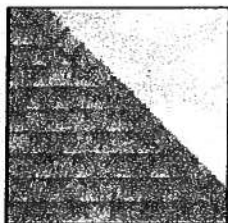
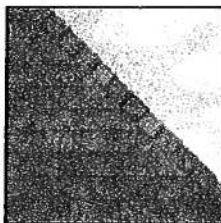
Mike Reed – Technical Manager
(205) 342-0287

or

Daniel DeJarnette – QA Engineer
(205) 342-0298

**ELK**

ROOFING PRODUCTS SPECIFICATIONS — TUSCALOOSA, AL

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

Product size 13½" x 39½"
Exposure 5½"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 11

50-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Raised Profile

Product size 13½" x 38½"
Exposure 5½"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Prestique I High Definition

Product size 13½" x 39½"
Exposure 5½"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 14

40-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

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

Size: 12" x 12"

Exposure: 6½"

Pieces/Bundle: 45

Coverage: 4 Bundles = 100 linear feet

Prestique High Definition

Product size 13½" x 38½"
Exposure 5½"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Elk Starter Strip

52 Bundles/Pallet

18 Pallets/Truck

936 Bundles/Truck

19 Pieces/Bundle

1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakedown, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood.
Gallery Collection: Balsam Forest®, Weathered Sage®, Sienna Sunset®.

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

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

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

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

*See actual limited warranty for conditions and limitations.

**Check for product availability.

SPECIFICATIONS

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

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

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

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

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

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All

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

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

**SOUTHEAST &
ATLANTIC OFFICE:**
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

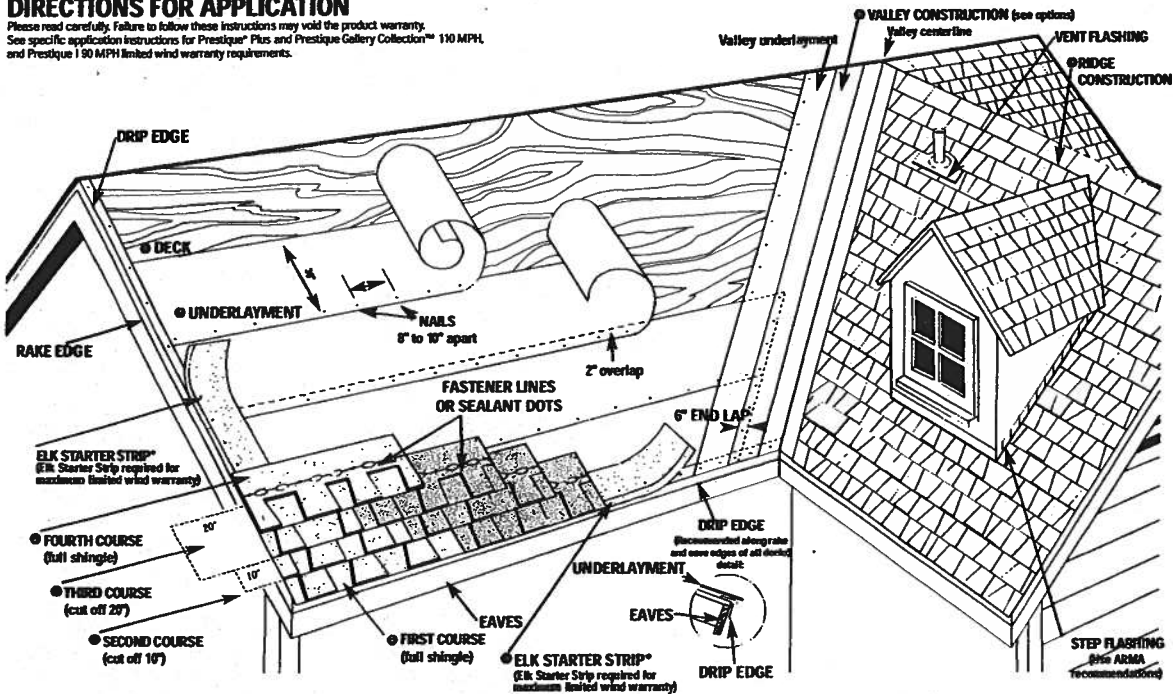
PLANT LOCATION:
800.945.5545

ELK
www.elkcorp.com

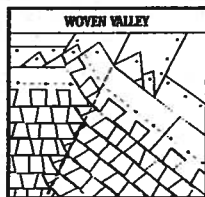
SSOOT 01/02

DIRECTIONS FOR APPLICATION

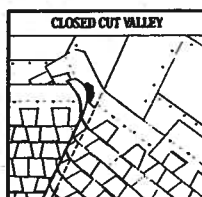
Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH and Prestique I 90 MPH limited wind warranty requirements.



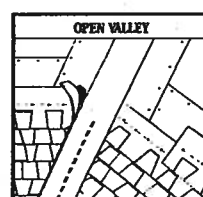
● VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.



VALLEY CENTER LINE



VALLEY CENTER LINE



VALLEY CENTER LINE

DIRECTIONS FOR APPLICATION

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

● DECK PREPARATION

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

● UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

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

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

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

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

● STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side. Shingles may be applied with a course alignment of 45° on the roof.

● FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course.

● SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

● THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

● FOURTH COURSE

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

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

● VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

● RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula FLX™ (See ridge package for installation instructions.)

FASTENERS

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

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

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

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

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

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

LIMITED WIND WARRANTY

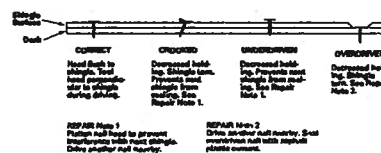
For a Limited Wind Warranty, all Prestique and Raised Profile® shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.

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



HELP STOP BLOW-OFFS AND CALL-BACKS

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



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified. All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

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

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All trademarks, ®, are registered trademarks of Elk Corporation of Dallas, an ELOOR company. Raised Profile, Ridge-Crest, Gallery Collection and FLX are trademarks pending registration of Elk Corporation of Dallas. UL is a registered trademark of Underwriters Laboratories, Inc.

ELK
www.elkcorp.com



Underwriters Laboratories Inc.®

333 Pringston Road
Northbrook, Illinois 60062-2086
United States Customs Code (1)
(847) 272-4800
FAX No. (847) 272-6129
<http://www.ul.com>

March 4, 2002

GAF Materials Corporation
Mr Randall Ziegler
1361 Alps Road
Wayne, NJ 07470

Our Reference: R21

Subject: UL Listed products

Dear Mr Ziegler:

This is in response to your request to identify some of the products that are currently Listed with Underwriters Laboratories relating to various Standards. Following are those products:

Royal Sovereign®
Marquis®/Marquis® WeatherMax®
SLATELINE®
Grand canyon™
Grand Sequoia®
Country Mansion™
Country Estates™
Timberline 30™
Timberline Select™ 40
Timberline Ultra™
Sentinel®

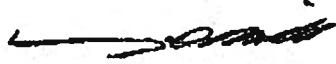
The above products have been tested to ASTM D3462, Class A UL790/ASTM E108 and UL 997/ ASTM D3161 (secured with 4 nails) with velocities up to 110 mph and have successfully met those test criteria.

If you have any questions please feel free to contact the writer.

Very truly yours,


Roger Anderson (Ext. 43283)
Senior Engineering Associate
Conformity Assessment Services- 3011E-NBK

Reviewed by,

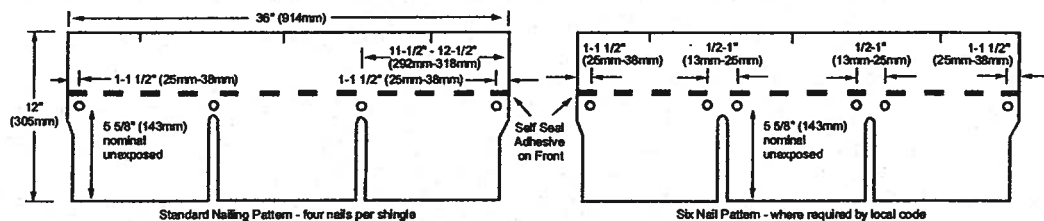

Douglas C. Miller (Ext. 43262)
Engineering Group Leader
Conformity Assessment Services- 3011E-NBK



MARQUIS WeatherMax[®] SHINGLES ROYAL SOVEREIGN[®] SHINGLES SENTINEL[®] SHINGLES

APPLICATION INSTRUCTIONS

Note: These shingles must be nailed a nominal 5 5/8" (143mm) from bottom of shingles, not in or above self seal, as shown. Nails should remain unexposed.



GENERAL INSTRUCTIONS

- **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Plywood decks for Class A installations must be 3/8" (10mm) thick or greater with underlayment as noted below. Shingles must not be fastened directly to insulation or insulated deck unless authorized in writing by GAF Materials Corporation. Roof decks and existing surfacing material must be dry prior to application of shingles.
- **UNDERLAYMENT:** Underlayment is required on new construction and required for reroofing when old roof is removed from the deck. Use only 'breather type' material like GAF Materials Corporation Shingle-Mate[®] Underlayment or equivalent. Underlayment must be installed flat, without wrinkles.
- **FASTENERS:** Use of nails is recommended. (Staple specifications and application instructions are available from GAF Materials Corporation, Contractor Services Dept., 1361 Alps Road, Wayne, NJ 07470.) Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. For normal installation, four fasteners must be installed per shingle, a nominal 5 5/8" (143mm) up from the bottom of the shingle. Fasteners must be installed approximately 1'-1 1/2" (25-38mm) and 11 1/2"-12 1/2" (292-318mm) from each side.
- **WIND RESISTANT:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing,

apply 2 quarter-sized dabs of shingle tab adhesive on the back of each tab, approximately 1" (25mm) from end and 1" (25mm) up from bottom of each tab corner. The shingle must be pressed firmly into the adhesive.

NOTE: Application of excess tab adhesive can cause blistering of the shingle.

For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

• **CANADIAN COLD WEATHER APPLICATIONS:** CSA A123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistant for GAF Materials Corporation's recommendations for the application of that adhesive.

• **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21° (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 2 quarter-sized dabs of shingle tab adhesive as indicated in Wind Resistant above. The shingle must be pressed firmly into the adhesive.

• **EXPOSURE:** 5" (127mm)

• **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements.

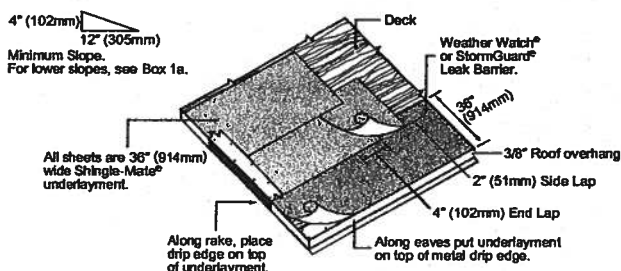
• **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

• **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

1 Underlayment: Standard Slope 4/12 (333mm/m) or more

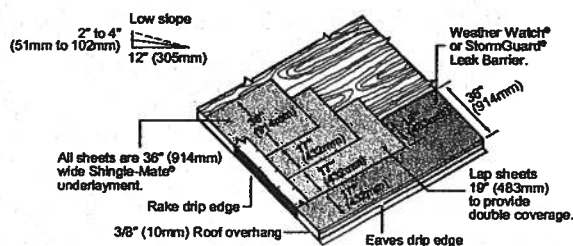
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

Application of eave flashing: Install eave flashing such as GAF Materials Corporation Weather Watch[®] or StormGuard[®] Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



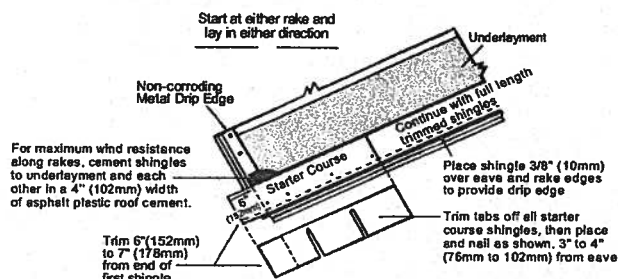
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

Application of underlayment and eave flashing: Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAF Materials Corporation Weather Watch[®] or StormGuard[®] Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate[®] underlayment.



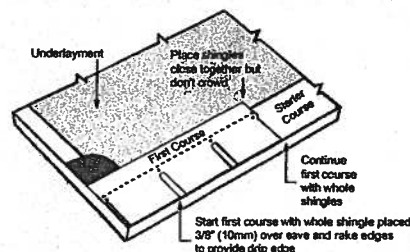
2 Starter Course

Use of any GAF MC 3-tab Shingle is recommended. Apply as shown.



3 First Course

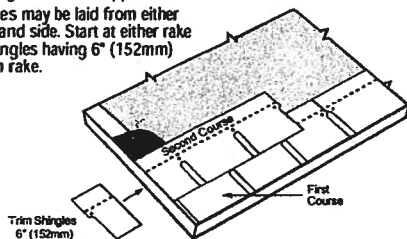
Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.



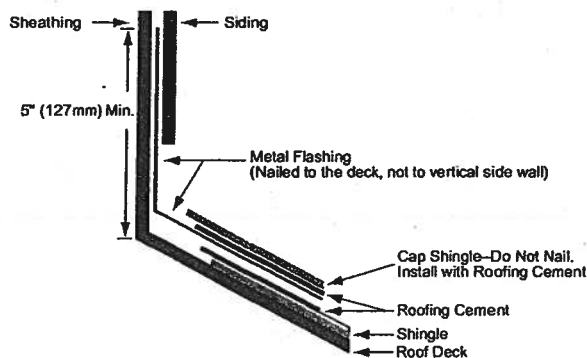
4 Second Course

Start and continue second course and all even numbered courses as shown. Position the shingle on the top of the cutouts of the underlying shingle so that there will be 5" (127mm) of each shingle exposed. Strike a chalk line about every 6 courses to check parallel alignment with eaves. Factory applied self-sealing dots on lower courses are designed to seal down the shingle tabs in an upper course.

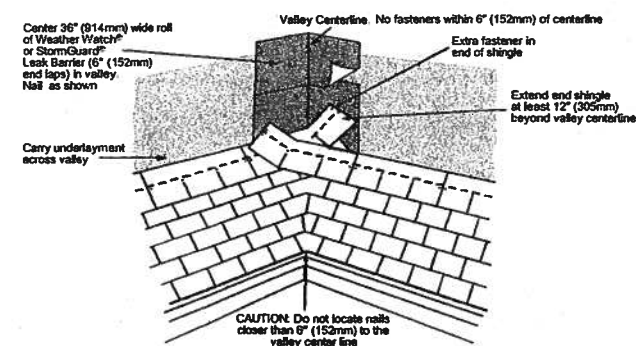
NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.



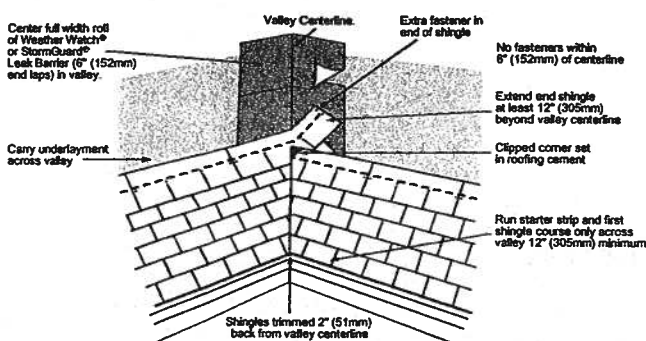
6 Wall Flashing (Sloped Roof to Vertical Wall)



8 Valley Construction - Closed or Woven Valley

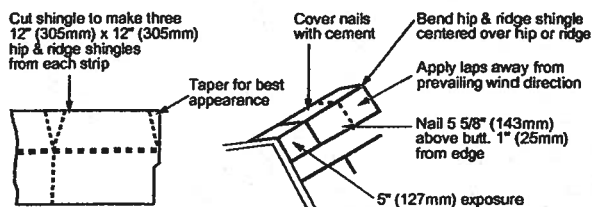


10 Valley Construction—Closed Cut

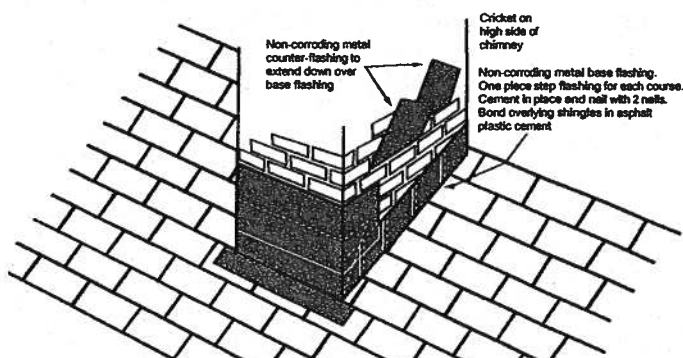


5 Hip and Ridge

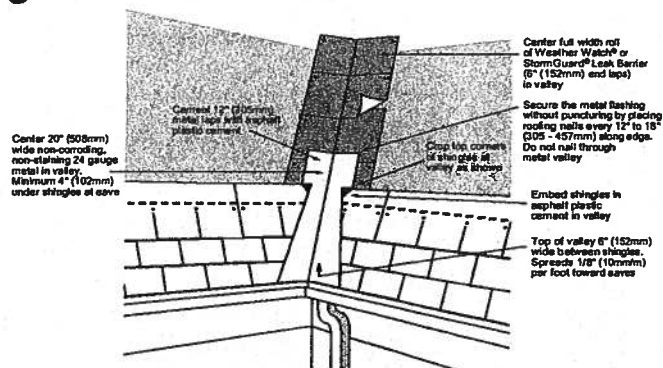
Use GAF hip & ridge shingles, or cut hip & ridge shingles from these full shingles, and apply as shown. Position laps away from prevailing wind direction.



7 Chimney Flashing



9 Valley Construction—Open Cut



Precautionary Notes

These shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Bundles should not be dropped on edge nor should attempt be made to separate shingles by "breaking" over ridge or other bundles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Storage should be in a covered, ventilated area—maximum temperature 110°F (43°C). Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

Re-Roofing

If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application. Note: Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper or may be obtained from the distributor of this product or directly from GAF Materials Corporation. Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.



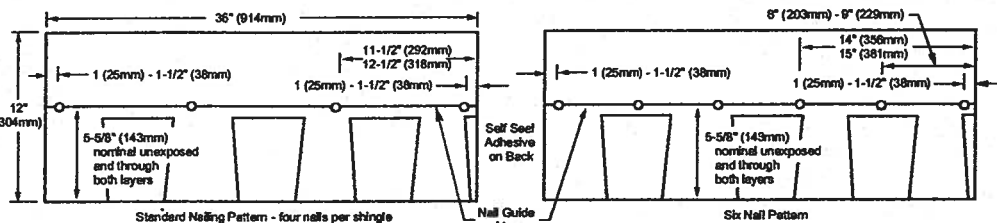
Shadow Accent TIMBERLINE[®] Ultra[®] SHINGLES

Color-Tones SELECT TIMBERLINE[®] 40[®] SHINGLES TIMBERLINE[®] 30[®] SHINGLES

APPLICATION INSTRUCTIONS

Timberline[®] Series shingles come in either 36" (914mm) or 36-15/16" (938mm) lengths, depending on shingle brand. Application instructions apply to both.

These shingles must be nailed a nominal 5-5/8" (143mm) from bottom of shingles, as shown, to allow for penetration through the double ply area just above the tabs. Nails should remain unexposed.



GENERAL INSTRUCTIONS

- **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Plywood decks for Class A installations must be 3/8" (10mm) thick or greater with underlayment as noted below. Shingles must not be fastened directly to insulation or insulated deck unless authorized in writing by GAF Materials Corporation. Roof decks and existing surfacing material must be dry prior to application of shingles.
- **UNDERLAYMENT:** Underlayment beneath shingles has many benefits, including preventing wind driven rain from reaching the interior of the building and preventing sap in some wood decking from reacting with asphalt shingles. Underlayment is also required by many code bodies. Consult your local building department for its requirements. Where an underlayment is to be installed, a breather-type underlayment such as GAFMC's Shingle-Mate[®] underlayment is recommended. Underlayment must be installed flat, without wrinkles.
- **FASTENERS:** Use of nails is recommended. (Staple specifications and application instructions are available from GAF Materials Corporation, Contractor Services Dept., 1361 Alps Road, Wayne, NJ 07470.) Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. For normal installation, four fasteners must be installed per shingle, a nominal 5-5/8" (143mm) up from the bottom of the shingle, to penetrate both layers of the shingle. Fasteners must be installed approximately 1" - 1 1/2" (25-38mm) and 11-1/2"-12-1/2" (292-318mm) from each side.
- **WIND RESISTANT:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds

before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing, apply 4 quarter-sized dabs of shingle tab adhesive on the back of the shingle 1" (25mm) and 13" (330mm) in from each side and 1" (25mm) up from bottom of the shingle. The shingle must be pressed firmly into the adhesive.

NOTE: Application of excess tab adhesive can cause blistering of the shingle.

For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

- **CANADIAN COLD WEATHER APPLICATIONS:** CSA 123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistant for GAF Materials Corporation's recommendations for the application of that adhesive.

- **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21° (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 4 quarter-sized dabs of shingle tab adhesive as indicated in Wind Resistant above. The shingle must be pressed firmly into the adhesive.

- **EXPOSURE:** 5" (127mm)

- **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements.

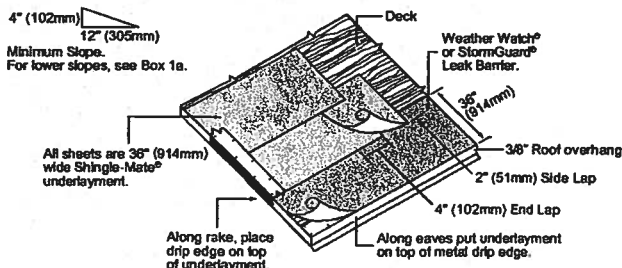
- **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

- **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

1 Underlayment: Standard Slope 4/12 (333mm/m) or more

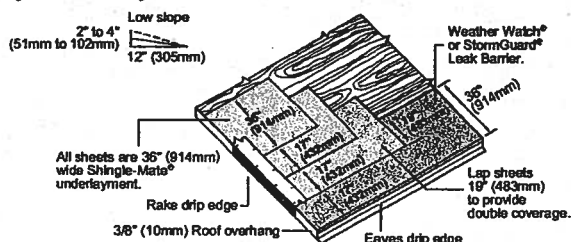
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

Application of eave flashing: Install eave flashing such as GAF Materials Corporation Weather Watch[®] or StormGuard[®] Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



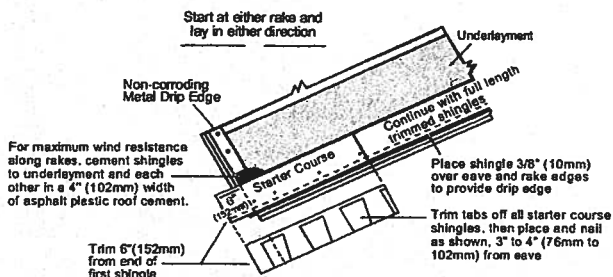
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

Application of underlayment and eave flashing: Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAF Materials Corporation Weather Watch[®] or StormGuard[®] Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate[®] underlayment.



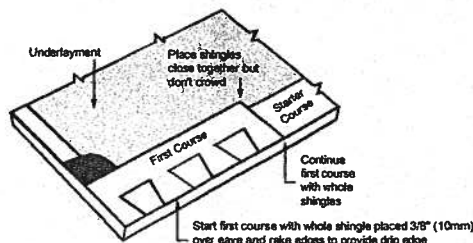
2 Starter Course

Apply as shown.



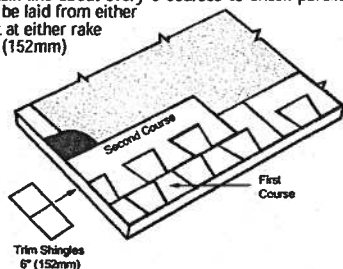
3 First Course

Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.



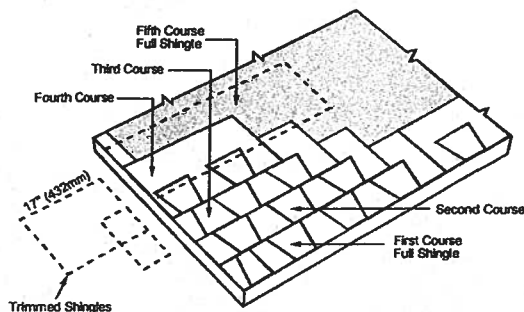
4 Second Course

Start and continue second course as shown. Trim 6" (152mm) from the end of the shingle. Position the shingles in the second and subsequent courses flush with the tops of the wide cutouts. This results in a 5" (127mm) exposure. Continue with full width shingles across the roof. Strike a chalk line about every 6 courses to check parallel alignment with eaves. NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.

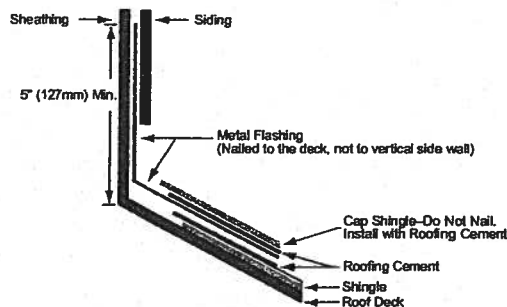


6 Fourth Course and Remaining Courses

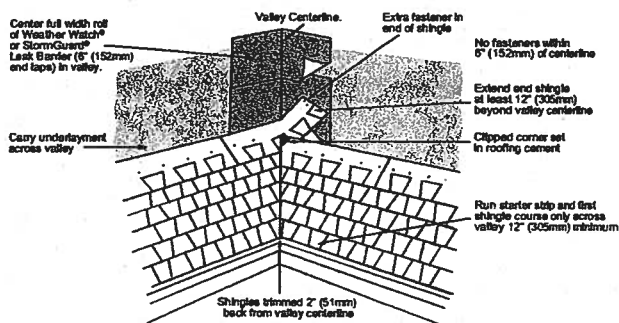
Trim 17" (432 mm) from first shingle in the course, then continue with full shingles across the roof. Fifth and subsequent courses repeat full shingle instructions from Step 3.



8 Wall Flashing (Sloped Roof to Vertical Wall)



10 Valley Construction—Closed Cut



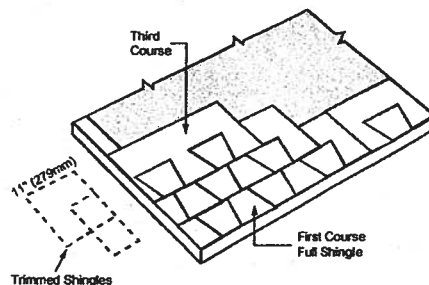
Precautionary Notes

Timberline® Series shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Bundles should not be dropped on edge nor should attempt be made to separate shingles by "breaking" over ridge or other bundles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Storage should be in a covered, ventilated area—maximum temperature 110°F (43°C). Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

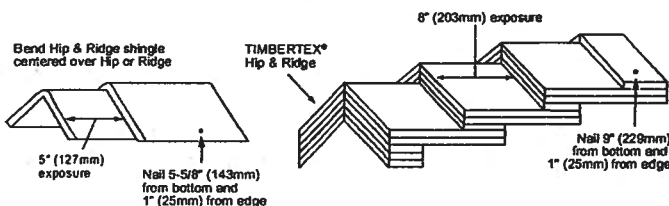
5 Third Course

Trim 11" (279mm) from the first shingle in the course then continue with full shingles across the roof.

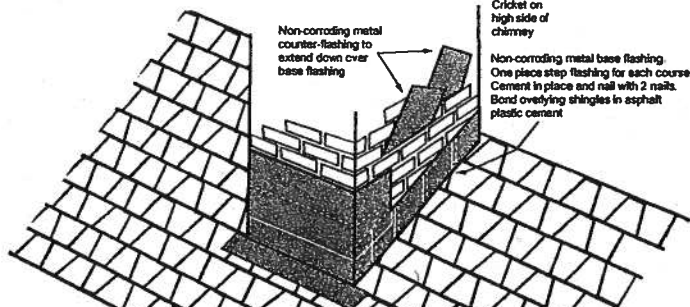


7 Hip and Ridge

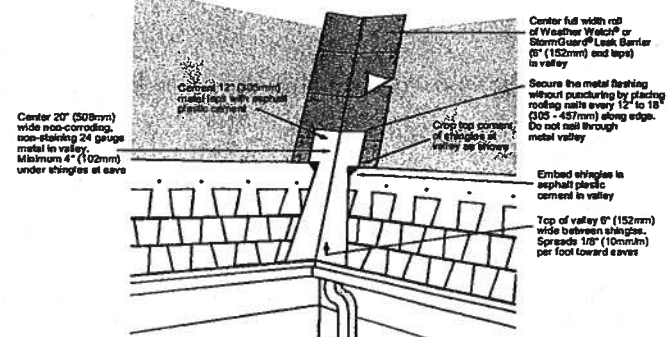
For single layer application, use hip and ridge shingles and apply as shown. To enhance appearance, use GAF TIMBERTEX® or a double layer application of Universal Hip & Ridge. (One bundle of TIMBERTEX® Hip & Ridge covers 20 lineal ft.—6.1 meters.) For double application, start with triple thickness of precut Hip & Ridge shingles and continue remainder with double thickness. Fasten in same manner as single application shown. Apply laps away from prevailing wind direction.



9 Chimney Flashing



11 Valley Construction—Open



Re-Roofing

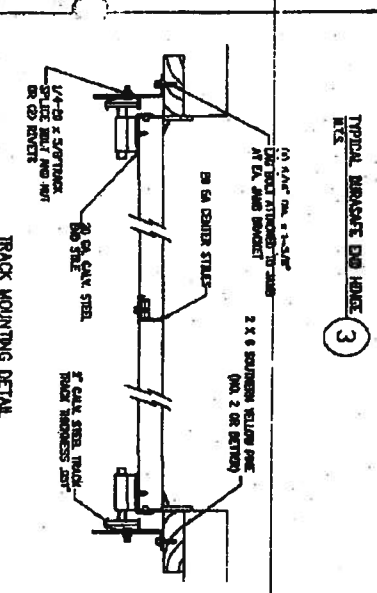
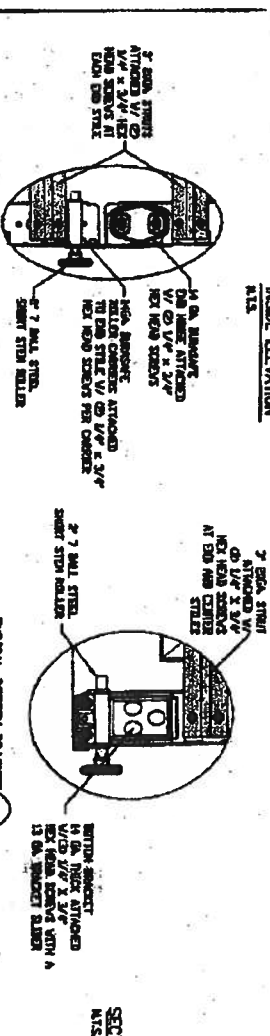
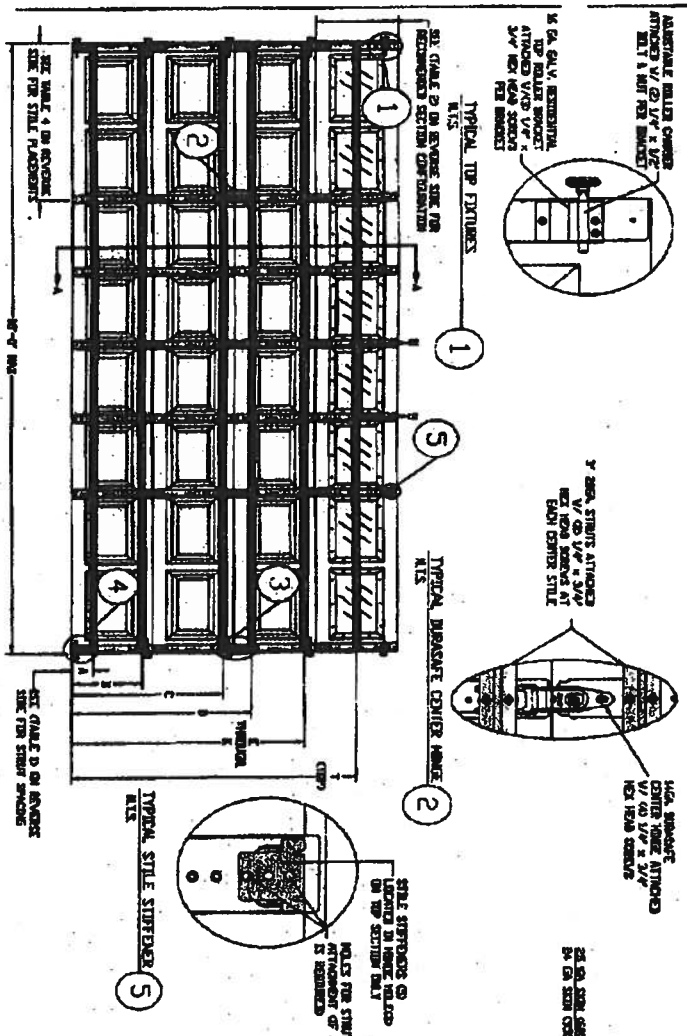
If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application.

Note: Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper or may be obtained from the distributor of this product or directly from GAF Materials Corporation. Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.

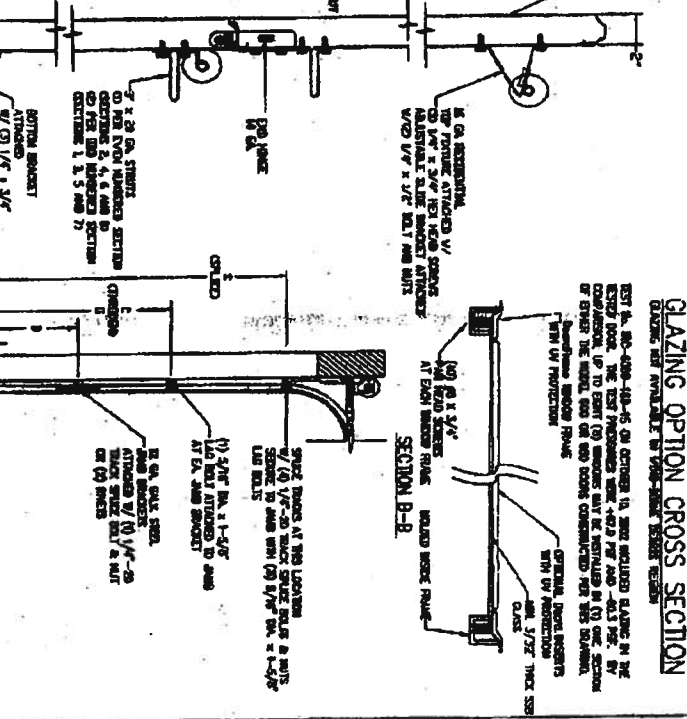
©2002 GAF Materials Corporation

ENGLISH 121201



WOOD JOIST ATTACHMENT TO STRUCTURE
1/2" DIA. STAINLESS STEEL ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS. 1/4" DIA. STAINLESS STEEL BOLTS ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS.

SECTION A-A (SIDE VIEW)
1/2" DIA. STAINLESS STEEL ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS. 1/4" DIA. STAINLESS STEEL BOLTS ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS.



SECTION A-A (SIDE VIEW)
1/2" DIA. STAINLESS STEEL ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS. 1/4" DIA. STAINLESS STEEL BOLTS ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS.

SECTION B-B
1/2" DIA. STAINLESS STEEL ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS. 1/4" DIA. STAINLESS STEEL BOLTS ATTACHED TO TOP OF WINDOW FRAME WITH 1/4" DIA. STAINLESS STEEL BOLTS.



MAX SIZE	10' x 14'
DESIGN LOADS	+18.3 PSF
	-20.8 PSF
WIND LOADS	+22.5 PSF
	-20.3 PSF

AMART
100 COLUMBIA STREET, SUITE 100, FARMINGDALE, NY 11735
TEL: 609-261-1111 FAX: 609-261-1112
WWW.AMART.COM



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jefferson, P.O. Box 76
Pittsburgh, KS 66762

Your application for Notice of Acceptance (NOA) of:

Entergy 6-8 S/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.23
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No: 01-0314.23

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This renews the Notice of Acceptance No. 00-0321.25 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The Series Entergy 6-8 S/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1029-EM-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.
- 3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

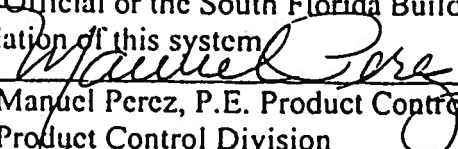
- 4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters):
- 4.2.1 Door: the installation of this unit will not require a hurricane protection system.
- 4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. LABELING

- 5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

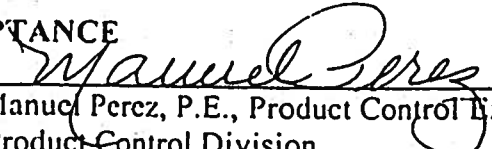
- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

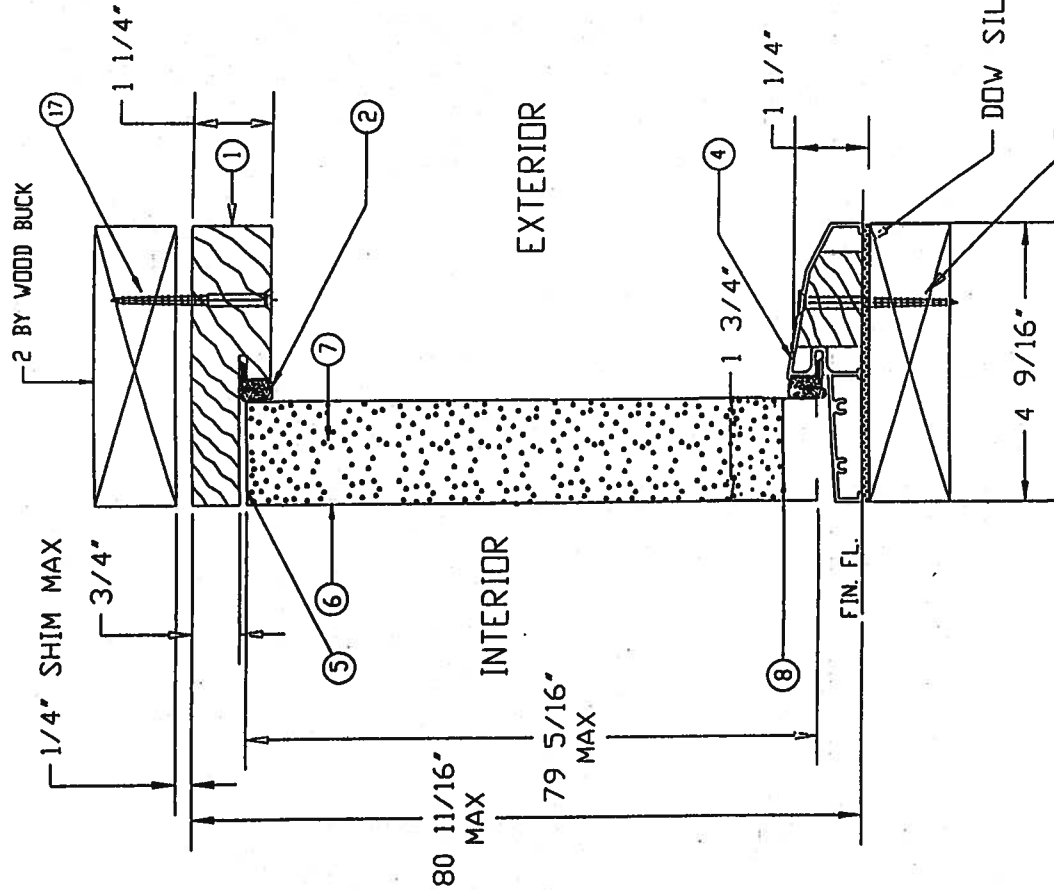
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE


Manuel Perez, P.E., Product Control Examiner
Product Control Division

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
1	WOOD HEAD JAMB	EM-14	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
2	COMPRESSION WEATHERSTRIP	EM-25	LOCKGREEN BRAND LOCKSEAL 9650-300 (2)
3	ALUMINUM ASTRAGAL	EM-12	PREMIOR BRAND OR EQUIVALENT - 5/8" ALUMINUM ASTRAGA
4	ALUMINUM-BUMPER THRESHOLD	EM-15	PREMIOR BRAND OR EQUIVALENT - 1 1/4" X 4 9/16"
5	TOP CHANNEL	EM-08	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
6	STEEL SKIN	26 GA. 007.000	MAX. 1/16" THICKNESS PER LOCAL CODES & REQ.
7	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 LBS./FT. ³	
8	BOTTOM CHANNEL	EM-07	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
9	WOOD LOCK BLOCK	EM-09	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
10	STRIKE STILE	EM-06	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
11	HINGE STILE	EM-05	PREMIOR BRAND - 1 1/16" - 20 GA STEEL
12	LOCK PREP FILLER PLATE	EM-10	PREMIOR BRAND - .050" THICK- MTL. TO BE POLYETHYLEN
13	4"x4" HINGE	EM-16	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
14	WOOD HINGE JAMB	EM-13	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
15	#10-24 x 1/2" F.H.V.S.		(4) SCREWS PER HINGE INTO DOOR
16	#10 X 2" F.H.V.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TO MAX 18" O.C. THEREAFTER (6) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TO MAX 8" O.C. THEREAFTER (7) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
17	100 GRAIN VARIOUM 1 1/2" OR GREATER OR 3/16" PER JAMBS VARIOUM 1 1/2" OR GREATER		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
18	#10 X 3/4" F.H.V.S.		(2) SCREWS PER HINGE INTO JAMB
19	#8 X 2" F.H.V.S.		(2) SCREWS AT EACH STRIKE PLATE
20	LOCKSET		KVIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
21	#10 X 1 3/4" F.H.V.S.		(2) SCREWS PER HINGE INTO JAMB
22	WOOD SIDELITE JAMB	EM-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
23	22" X 64" SINGLE PANEL GLASS	EM-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - 100L- 1/2" CLEAR TEMPERED GLASS
24	SIDELITE TRIM (WOOD)	EM-20	5/16" X 1/2" MTL. TO BE PINE OR EQUIVALENT
25	WOOD CASING	EM-21	1/2" X 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE HOLDINGS USE FOR 3/16" BY SIDE JAMBS AS MULLIONS
26	WOOD SIDELITE HEAD JAMB	EM-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
27	WOOD SIDELITE BASE	EM-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
28	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
29	#6 X 1 1/2" PAN HEAD SCREWS		SCREWS SPACING TO BE 2" IN FROM EACH CORNER AND IN PER FRAME TO EXCEED 16" O.C. THEREAFTER
30	SIDELITE STILES	EM-26	15/16" X 1 1/16" MTL. TO BE PINE OR EQUIVALENT
31	PIN NAIL		2"x4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THEREAFTER, USED ON MULLIONS AND TR

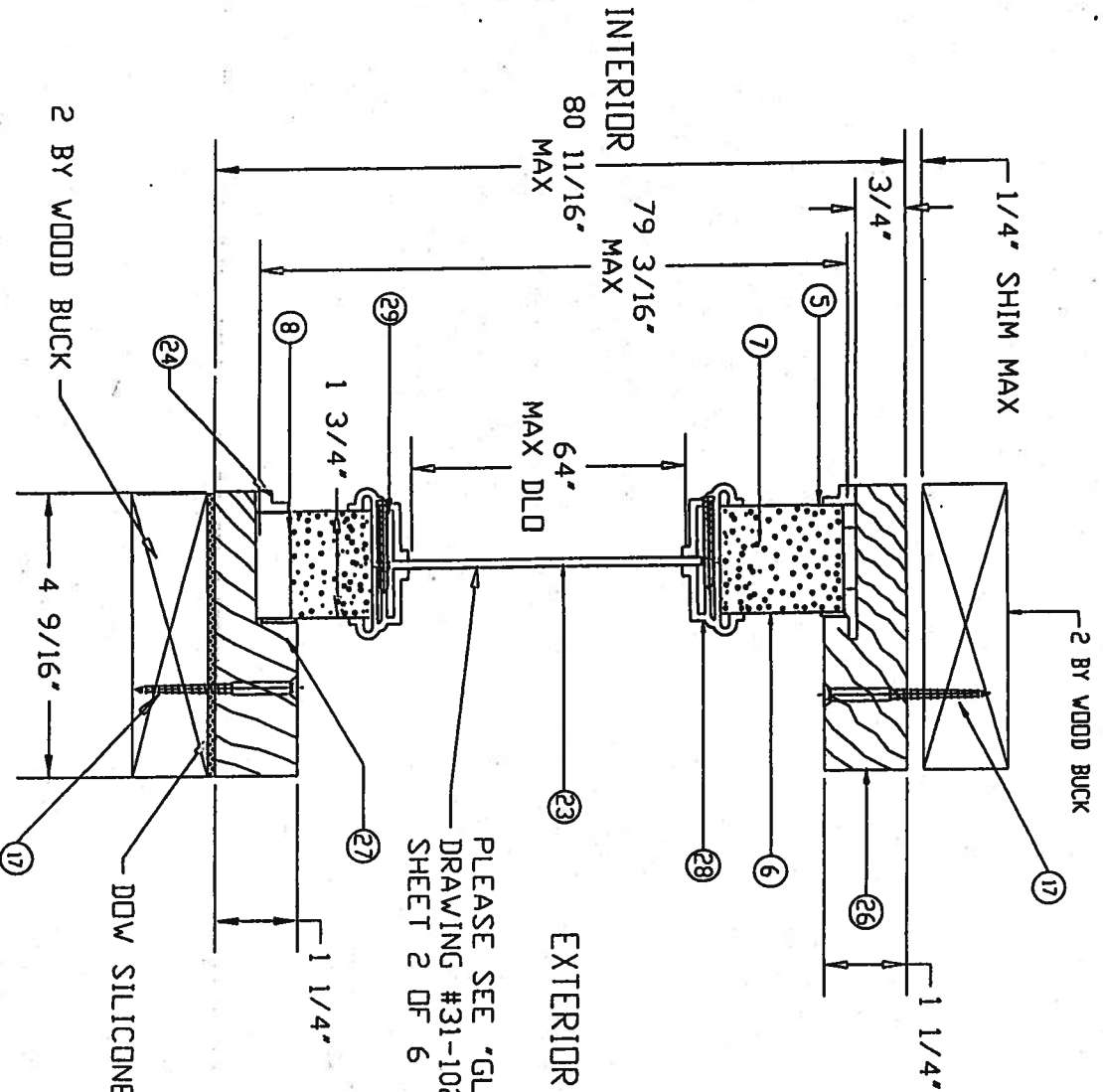


DOW SILICONE #995

SECTION B-B

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY *Samuel Davis*
PROJECT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314-23

UNIT: UNLESS NOTED, FAB. :	DEC :	AWG :	B	DATE COUNTY MODIFICATIONS	1/11/01	JD
ENGINEER:	EXTENDING UNLESS NOTED, STD. COMPL. NO. 5		A	ADDED PAGE 5 (COLOR OPTIONS)	10-1-98	RS
				REVISIONS	DATE	BY
DR. BT. R.S.	DATE 7-29-97			PAINT NAME: EMERGENCY STEEL EDGE DOOR (R-2)		
PREMIOR ENTRY SYSTEMS 911 L. JEFFERSON PITTSBURGH, KS 66702						
31-1029-EM-I SHEET 3 OF 6						
REVISION LETTER B						



PLEASE SEE 'GLAZING DETAIL'
DRAWING #31-1029-EM-I
SHEET 2 OF 6

SECTION C-C

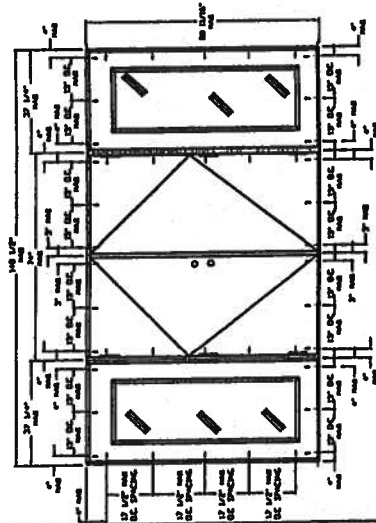
APPROVED AS COMPLYING WITH THE
SMITHSONIAN BUILDING CODE
DATE **JUN 05 2005**
BY *Safawati*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-0314.23**

D	DATE	COMMENTS	BY
C	7-29-97	REVISION: MATERIAL WAS PUT IN SYMBL	RS
B		ADDED PAGE 5 (CONTR. DETAILS)	RS
A		ADD SCREWS TO LINE FRAME & MATERIAL LIST	RS
1			BT

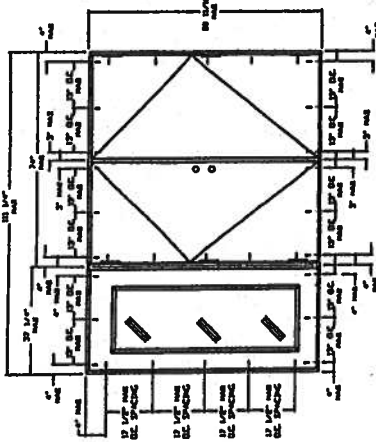
REVISION LETTER **D**

31-1029-EM-I
SHEET 4 OF 6

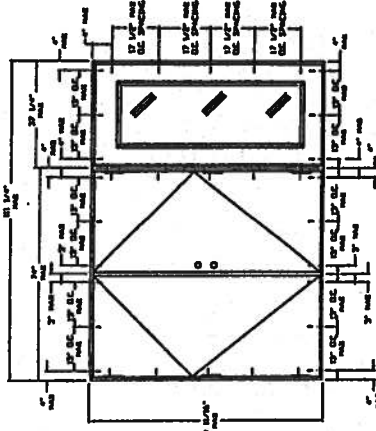
OTHER DOOR CONFIGURATIONS



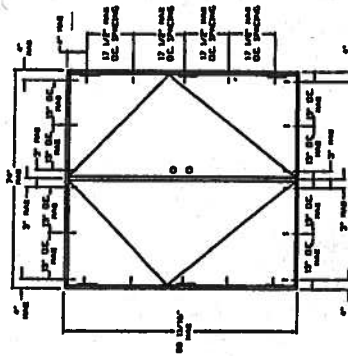
OXXO



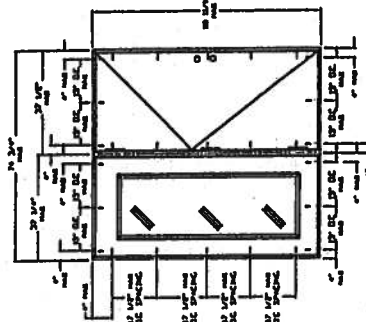
OXX



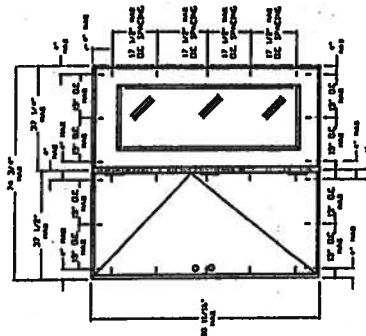
XXO



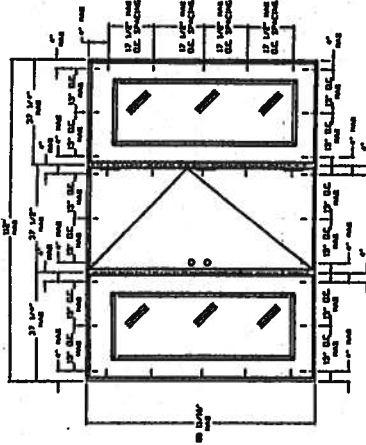
XX



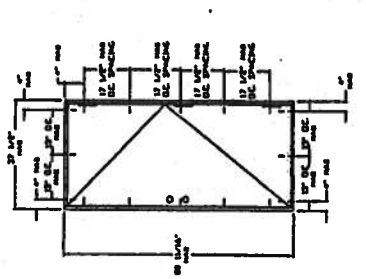
OX



XO



XOXO



XO

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2000
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-03 14.23

LIMITS: UNLESS NOTED, TYPIC : SEE : ANG :		ENGINEER :		DATE : 11-01	
EXTENSIONS: UNLESS NOTED, STD. COM. 10.5		PART NAME :		SCALE :	
REVISIONS :		DATE :		BY :	
PREMIOR ENTRY SYSTEMS		31-1029-EM-I		SHEET 5 OF 6	
PHILADELPHIA, PA 19102		REVISION LETTER			

OTHER DOOR PANEL STYLES

36" MAX

79 5/16" MAX

BLANK TOP
4-PANEL

6-PANEL

4-PANEL

9-PANEL

10-PANEL

18-PANEL

FLUSH

8-PANEL

CROSSBUCK

12-PANEL

4-PANEL
EYEBROW

5-PANEL
V/SCROLL

5-PANEL
EYEBROW
V/SCROLL

5-PANEL

5-PANEL
EYEBROW

OTHER SIDELITE STYLES

36" MAX

79 3/16" MAX

SL-10

SL-20

SL-30

SL-60

SL-50

SL-50B

SL-69B

SL-69C

SL-25

SL-55

SL-300

SL-40

SL-90A

SL-90B

SL-90C

SL-30C

SL-70

SL-80

PD-1

PD-2

PD-3

PD-4

PD-5

PD-6

PD-7

PD-8

PD-9

PD-10

PD-11

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PD-38

PD-39

PD-40

PD-41

PD-42

PD-43

PD-43A

PD-43B

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY *W. J. L.*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-6314.2.3

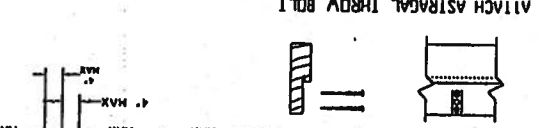
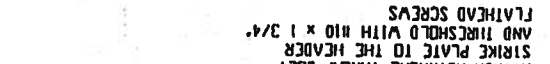
UNIT: UNLESS NOTED, F.O.C.	DEC	ANG	
EXTENDING UNLESS NOTED, SEE DET. 10.1.3			
ENGINEER:	W. J. L.	DATE: 12/15/70	
PREMIER ENTRY SYSTEMS			
31 L. JEFFERSON			
PITTSBURG, KS 66742			
31-1029-EM-I			
SHEET 6 OF 6			
REVISION LETTER			

UNIT MUST BE INSTALLED WITH MIAMI-DADE COUNTY
APPROVED SHUTTERS
THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES
NO DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON

1. ALL ANCHORING SCREWS TO BE #10 WITH
MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE
OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL
FLOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE
OR MASONRY. 1/2" EMBEDMENT INTO WOOD SUBSTRATE
OR 3/16" PTH TACKS WITH 1 1/2" MINIMUM EMBEDMENT

NOTES:

- 1) WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- 2) THE PRECEDING DRAWINGS ARE INTENDED TO JUSTIFY THE FOLLOWING INSTALLATIONS.
- 3) WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY JPCING.
- 4) MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.



PREMDOR (CENTERGY BRAND) DOUBLE DOOR
WITH SIDE LITES IN WOOD FRAMES
WITH BUMPER THRESHOLD (INSWING)



RIGHT-J LOAD AND EQUIPMENT SUMMARY

Entire House

Touchstone Heating and Air, Inc.

Job: Little Job 05/31/06

P.O. Box 327, Lake Butler, FL 32054 Phone: 386-496-5467 Fax: 386-496-5147

Project Information

For: Stanley Crawford Construction
1531 SW Commercial Glen, Lake City, FL 32025
Phone: 386-752-5152 Fax: 386-755-2165

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db 33 °F
Inside db 70 °F
Design TD 37 °F

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 52 gr/lb

Heating Summary

Building heat loss 46308 Btuh
Ventilation air 8 cfm
Ventilation air loss 317 Btuh
Design heat load 46625 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	1785	1785
Volume (ft³)	15173	15173
Air changes/hour	0.10	0.80
Equiv. AVF (cfm)	25	202

Heating Equipment Summary

Make Trane
Trade
TWR036C100
Efficiency 9.1 HSPF
Heating input 32600 Btuh @ 47°F
Heating output 25 °F
Heating temp rise 1119 cfm
Actual heating fan 0.024 cfm/Btuh
Heating air flow factor

Space thermostat

Sensible Cooling Equipment Load Sizing

Structure 26846 Btuh
Ventilation 0 Btuh
Design temperature swing 3.0 °F
Use mfg. data n
Rate/swing multiplier 0.97
Total sens. equip. load 25071 Btuh

Latent Cooling Equipment Load Sizing

Internal gains 230 Btuh
Ventilation 0 Btuh
Infiltration 7092 Btuh
Total latent equip. load 7322 Btuh

Total equipment load 32393 Btuh
Req. total capacity at 0.70% SHR 3.0 ton

Cooling Equipment Summary

Make Trane
Trade
TWR036C100
TWG036
Efficiency 13.0 EER
Sensible cooling 23800 Btuh
Latent cooling 10200 Btuh
Total cooling 34000 Btuh
Actual cooling fan 1119 cfm
Cooling air flow factor 0.043 cfm/Btuh

Load sensible heat ratio 78 %

Bold/italic values have been manually overridden

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

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:1SLL487-Z0824073626

Truss Fabricator: Anderson Truss Company
Job Identification: 5-115-STANLEY CRAWFORD/~~GAYLARD~~ Little
Truss Count: 38
Model Code: Florida Building Code 2001
Truss Criteria: ANSI/TPI-1995(STD)/FBC
Engineering Software: Alpine Software, Version 7.04.0805.15.
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 1-1995 Section 2.2
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



Seal Date: 03/24/2005

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	96374--	H7A	05082065	03/23/05
2	96375--	H9A	05082056	03/23/05
3	96376--	H11A	05082057	03/23/05
4	96377--	H13A	05082058	03/23/05
5	96378--	HS15A	05082066	03/23/05
6	96379--	AS	05082059	03/23/05
7	96380--	BH1	05082060	03/23/05
8	96381--	BH	05082067	03/23/05
9	96382--	B	05082068	03/23/05
10	96383--	H15B	05082069	03/23/05
11	96384--	H13B	05082070	03/23/05
12	96385--	HT7B	05082071	03/23/05
13	96386--	HT9B	05082072	03/23/05
14	96387--	HT11B	05082073	03/23/05
15	96388--	HT13B	05082074	03/23/05
16	96389--	H7C	05082075	03/23/05
17	96390--	H9C	05082076	03/23/05
18	96391--	CG	05082090	03/23/05
19	96392--	D	05082091	03/23/05
20	96393--	H5E	05082077	03/23/05
21	96394--	H5E	05082078	03/23/05
22	96395--	E	05082061	03/23/05
23	96396--	H7G	05082092	03/23/05
24	96397--	H9G	05082062	03/23/05
25	96398--	G	05082063	03/23/05
26	96399--	G-1	05082079	03/23/05
27	96400--	EJ7	05082080	03/23/05
28	96401--	CJ5	05082081	03/23/05
29	96402--	HJ7	05082082	03/23/05
30	96403--	CJ3	05082083	03/23/05
31	96404--	HJ5	05082084	03/23/05
32	96405--	CJ1	05082085	03/23/05
33	96406--	HJ7T	05082086	03/23/05
34	96407--	CJ3T	05082087	03/23/05
35	96408--	CJ5T	05082088	03/23/05
36	96409--	EJ7T	05082064	03/23/05
37	96410--	EJ7T1	05082089	03/23/05
38	96411--	EJ7G	05082093	03/23/05

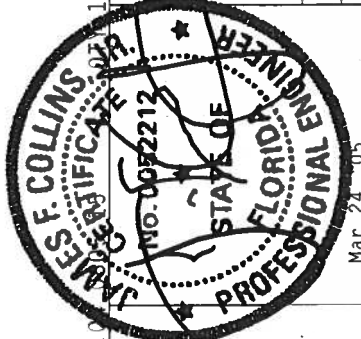
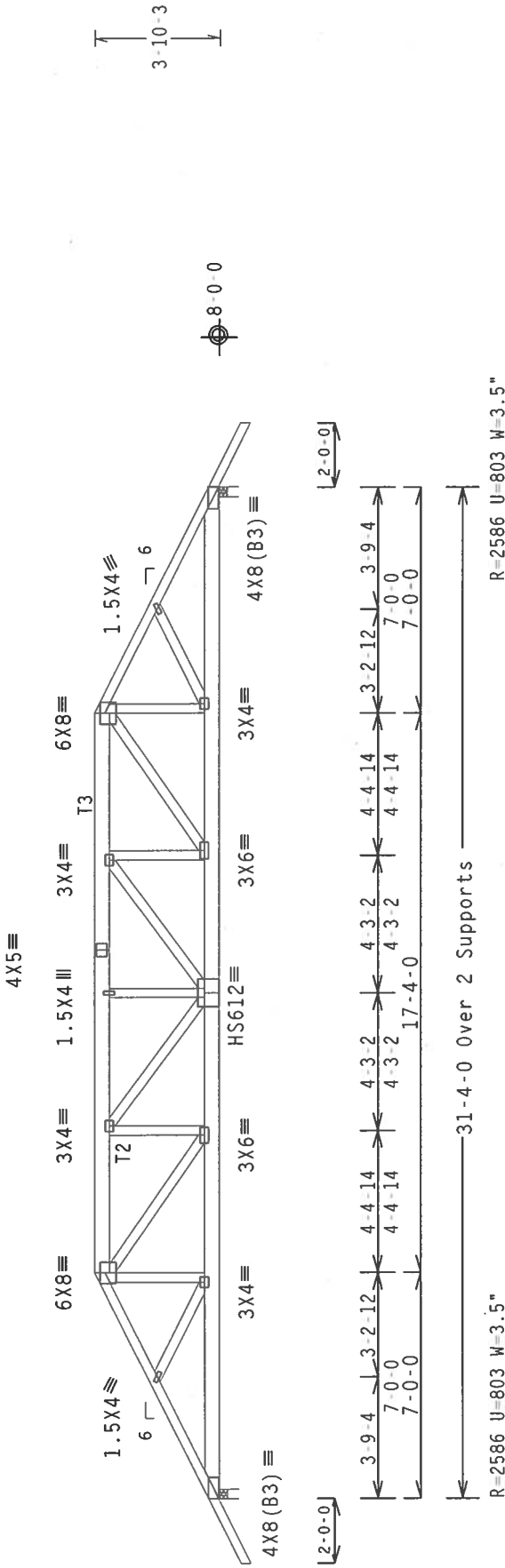
Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3

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

Deflection meets L/360 live and L/240 total load.

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.

Left side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang.
End jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang.



PLT TYP. 20 Gauge HS.Wave TPI Design Crit: TPI-1995(STD)/FBC 7.0
Scale = .1875" / Ft.
REF R487 -- 96374
DATE 03/23/05
DRW HCUSR487 05082065
HC-ENG DF/AP
SEQN- 132413
DUR.FAC. 1.25
SPACING 24.0"
JREF- 1SLL487_Z08

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

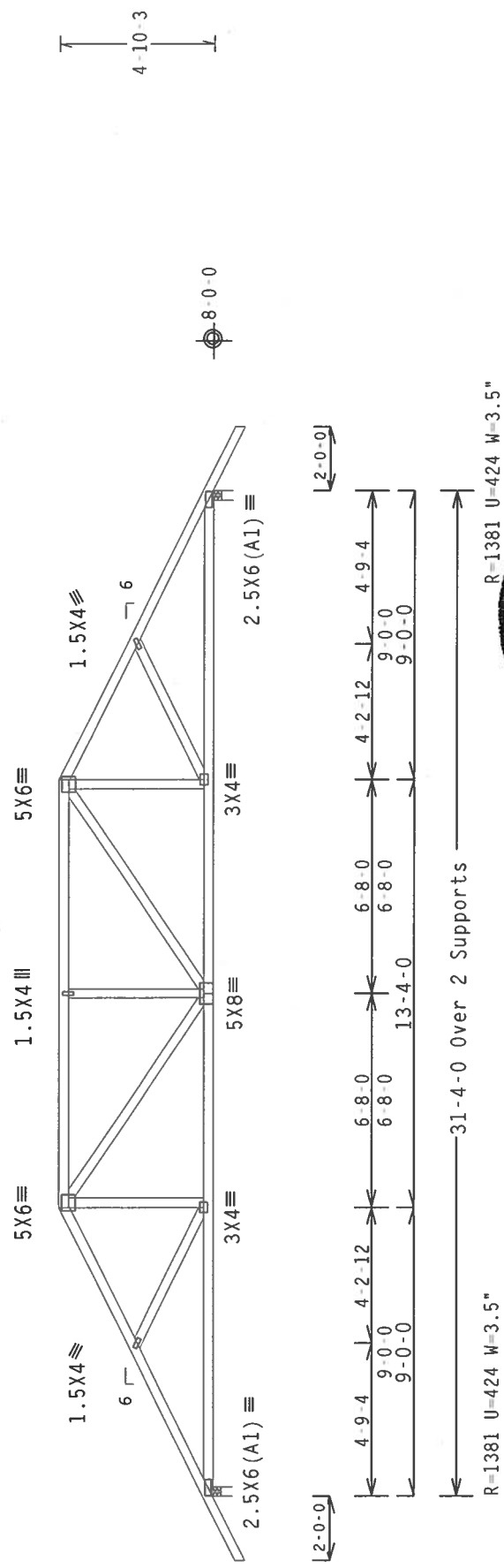
WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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, 10.10 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.



PLT TYP. Wave TPI

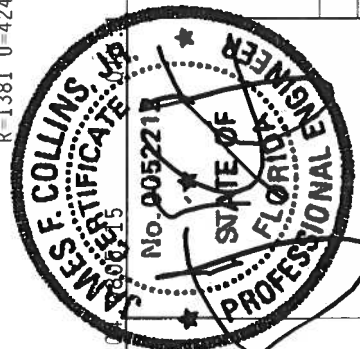
Design Crit: TPI-1995 (STD)/FBC

7.0

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

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	96375
TC DL	10.0 PSF	DATE	03/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05082056
BC LL	0.0 PSF	HC-ENG	DF/AP	*
TOT.LD.	40.0 PSF	SEQN-	132419	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SL487_Z08	



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****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS SHALL BE RESPONSIBLE FOR THE DESIGN. ANY FAILURE TO BUTTRESS, BRACE, OR PROPERLY ATTACH TRUSSES SHALL BE THE RESPONSIBILITY OF THE INSTALLER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN.

1110 mph wind, 10.60 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.



Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	96376
TC DL	10.0 PSF	DATE	03/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05082057
BC LL	0.0 PSF	HC-ENG	DF/AP	*
TOT.LD.	40.0 PSF	SEQN-	132425	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SLL487_Z08	



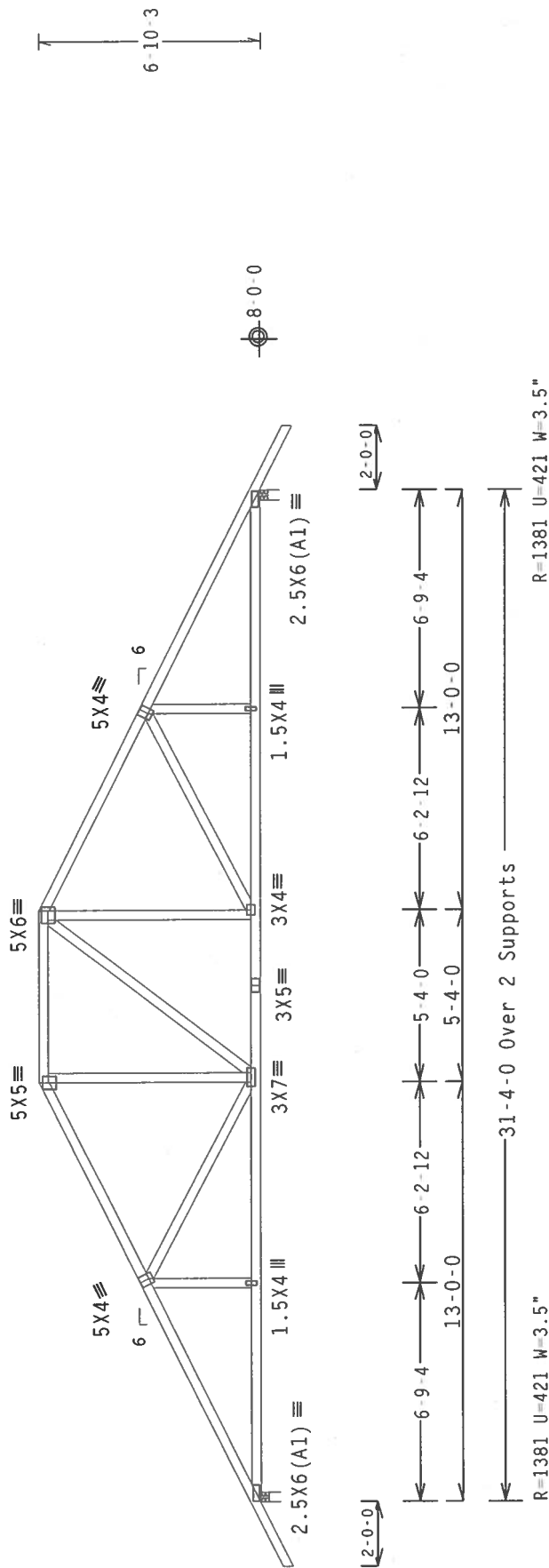
***IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS
DESIGN, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES,
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA. UNLESS OTHERWISE GRADE 40/60 (W. 7/16-5) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND MEMBERS LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A.2. A SEAL ON THIS
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF 1911-2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 AND 2.

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1950 Marley Drive
Haines City, FL 33844

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110 mph wind, 11.10 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.



Scale = .1875" / Ft.

TC LL	20.0 PSF	REF	R487--	96377
TC DL	10.0 PSF	DATE	03/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05082058
BC LL	0.0 PSF	HC-ENG	DF/AP	
TOT.LD.	40.0 PSF	SEQN-	132432	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SLL487_Z08	

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Haines City, FL 33844
FL Certificate of Authorization # 567

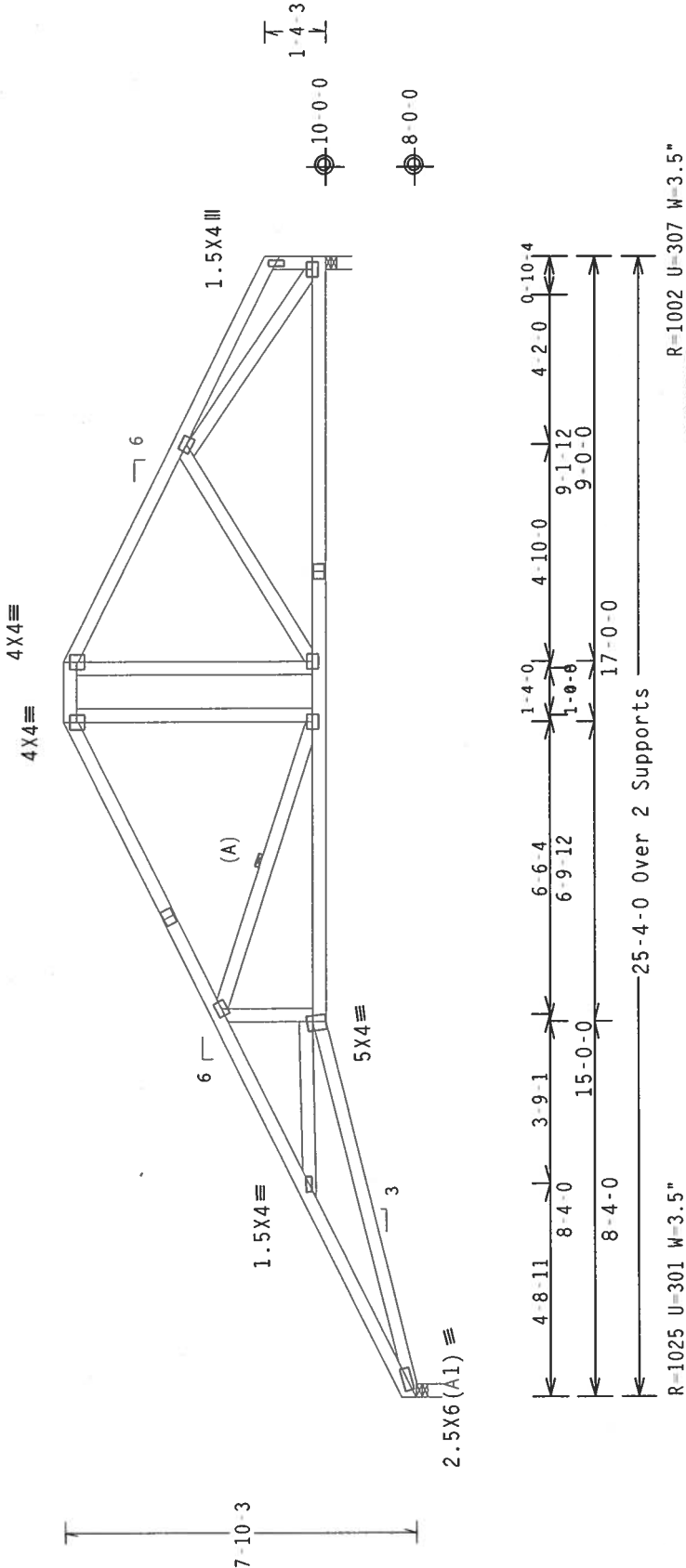
FL Certificate of Authorization # 567

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

110 mph wind, 12.10 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.



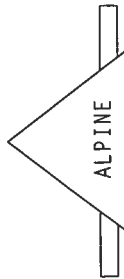
Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

Scale = .25\"/>

REF	R487--	96378
DATE	03/23/05	
DRW	HCUSR487	05082066
HC-ENG	DF/AP	
SEQN	132443	
DUR.FAC.	1.25	
SPACING	24.0"	
JREF	1SLL487_Z08	



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****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEER PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR THE PROPER DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA IN-H/S/K ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

110 mph wind, 12.26 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.



R-1025 U-301 W-3.5"

25-4-0 Over 2 Supports

R-1002 U-306 W-3.5"

Design Crit: TPI-1995(STD)/FBC

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

Scale = .25"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BECS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (IRVING PLATE INSTITUTE, 583 D'AMORIO DR., SUITE 200, MADISON, WI 53719), AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE IN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REF R487 - - 96379

DATE 03/23/05

60/87/89 21YR

JRW HCUSR48/ 05082059

HC-ENG DF/AP

SEQN- 132450

TREF- 1511 487 708

0011

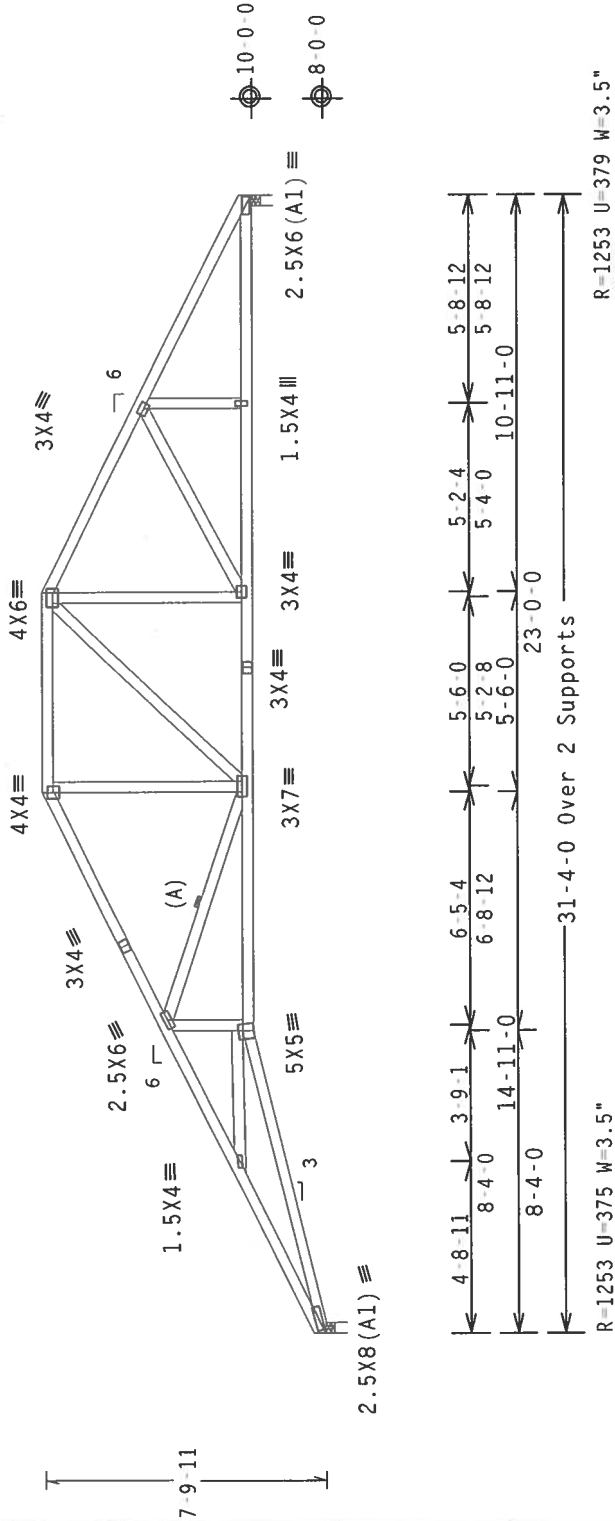
FL Certificate of Authorization # 367

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

110 mph wind, 12.08 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.



PLT TYP. Wave TPI

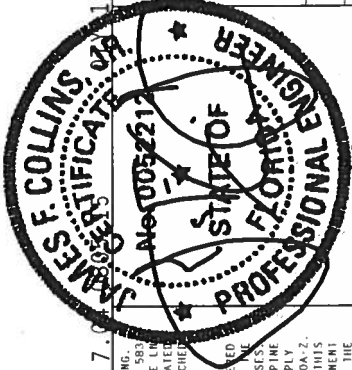
Design Crit: TPI-1995(STD)/FBC

7.0

FL/-4/-/-R/-

Scale = .1875"/Ft.

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TC DL	10.0 PSF	DATE	03/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05082060
BC LL	0.0 PSF	HC-ENG	DF/AP	*
TOT.LD.	40.0 PSF	SEQN	132459	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1SLL487_Z08	



Mar 24 '05

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY VIOLATION OF THIS DESIGN. ANY FAILURE TO BUILD OR PROSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. DESIGN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. CLIP PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

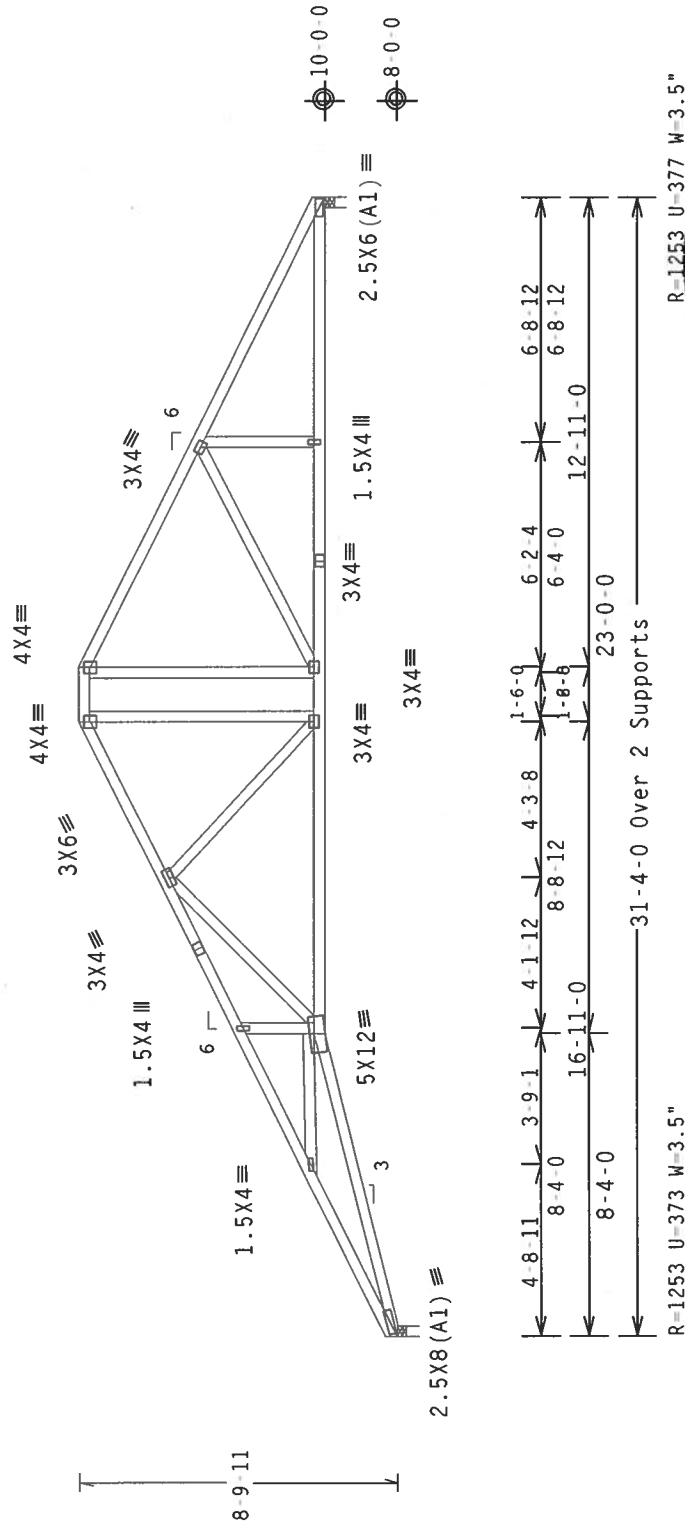
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # 567

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 12.58 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD) / FBC

7.0

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

Scale = .1875" / Ft.

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING, FABRICATION, DESIGN, OR BUILDING OF THE TRUSS OR FOR ANY FAILURE OF THE TRUSS OR FOR ANY DAMAGE TO THE BUILDING OR TO THE PERSONS OR PROPERTY THEREIN. THE DESIGNER'S RESPONSIBILITY IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

Mar 24 '05

JREF - 1SLL487_Z08

SPACING 24.0"

DUR. FAC. 1.25

SEQN - 132468

HC-ENG DF/AP

DRW HCUSR487 05082067

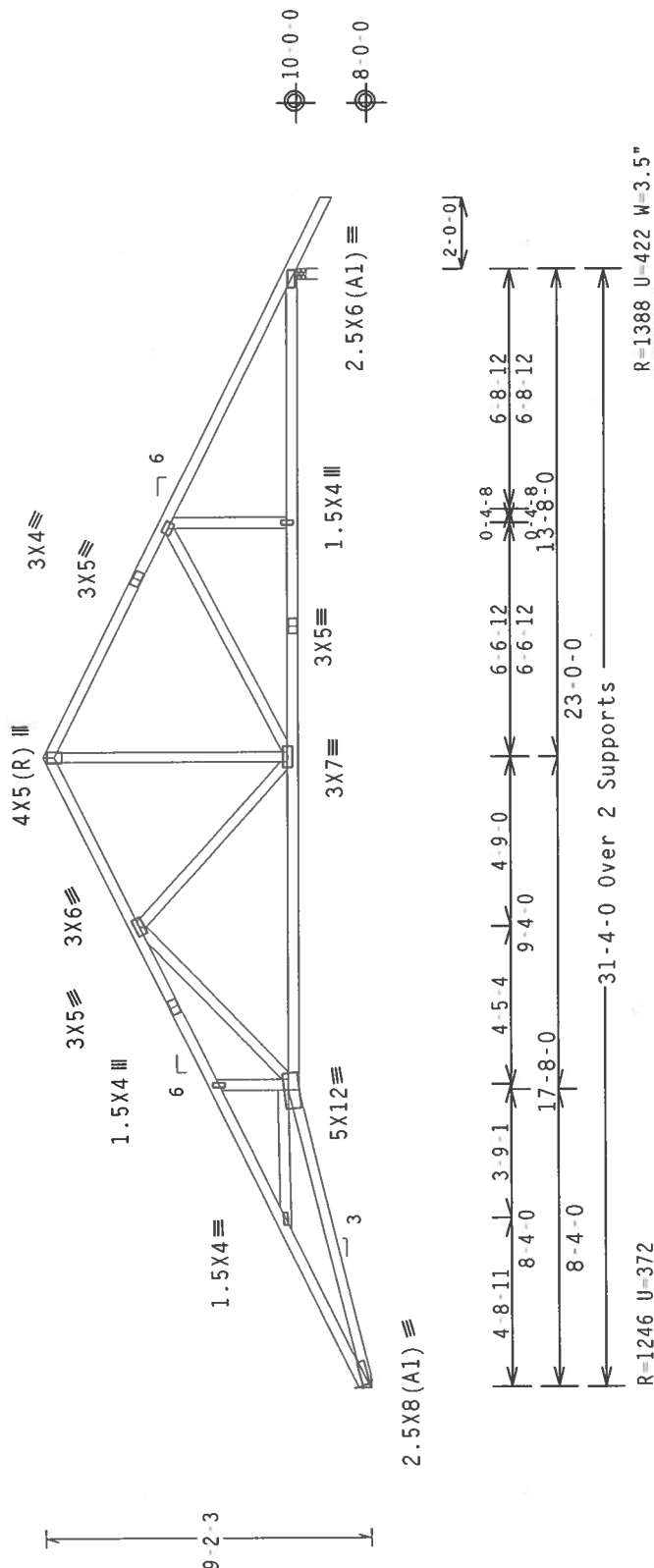
DATE 03/23/05

REF R487 - - 96381

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

110 mph wind, 12.76 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

0

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

Scale = .1875"/Ft.

WARNING: TRUSSES REQUIRE EXPERTISE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS-1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PAPER INSTITUTE, 5803 W. DEMPSTER 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 DETAILING OR CONSTRUCTION OF THE INSTALLATION. ANY FAILURE OF THE PRODUCTS OR CONNECTIONS WITHIN THE PERIOD OF THE DESIGN LIFE SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSTALLING AND BRACING OF TRUSSES AND CONNECTOR PLATES IN ACCORDANCE WITH THE NATIONAL SHIPPING SPEC. BY ATAPP) AND IPTI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING OR CONSTRUCTION OF THE INSTALLATION. ANY FAILURE OF THE PRODUCTS OR CONNECTIONS WITHIN THE PERIOD OF THE DESIGN LIFE SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSTALLING AND BRACING OF TRUSSES AND CONNECTOR PLATES ARE MADE OF 2010/16GA W/H/5/8" ASTM A553 GRADE 40/60 (N. K/H/5) GULY. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE 1905 COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/IPTI 1 SEC. 2.

ALPINE

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

FL Certificate of Authorization # 567

Mar 24 '05

SPACING 24 0"

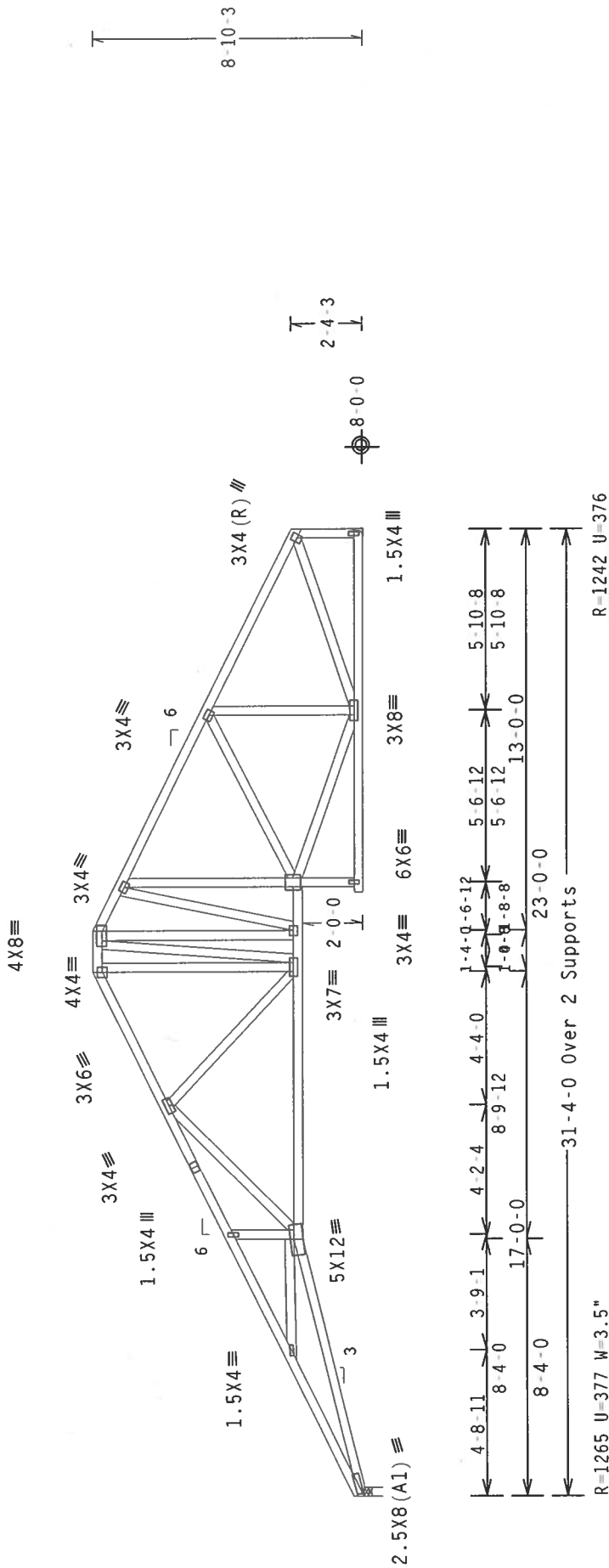
TREE- 1S11487 708

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

110 mph wind, 12.60 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.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

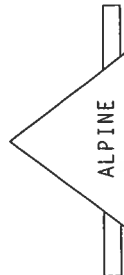
7.0

FL/-4/-/-R/-

Scale = .1875"/Ft.

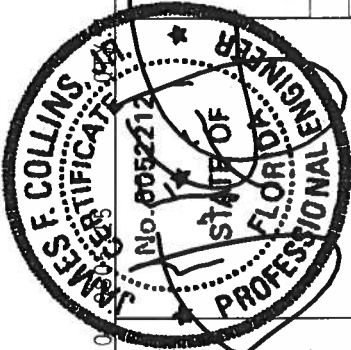
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONOHIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 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 AIAA) AND TPI-1995. ALPINE CONNECTOR PLATES ARE MADE TO THE 2018/2019 TRUSS MANUFACTURING STANDARD. ANY DEVIATION FROM THIS DESIGN SHALL BE INDICATED BY A SEAL ON THIS ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER. 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 # 557

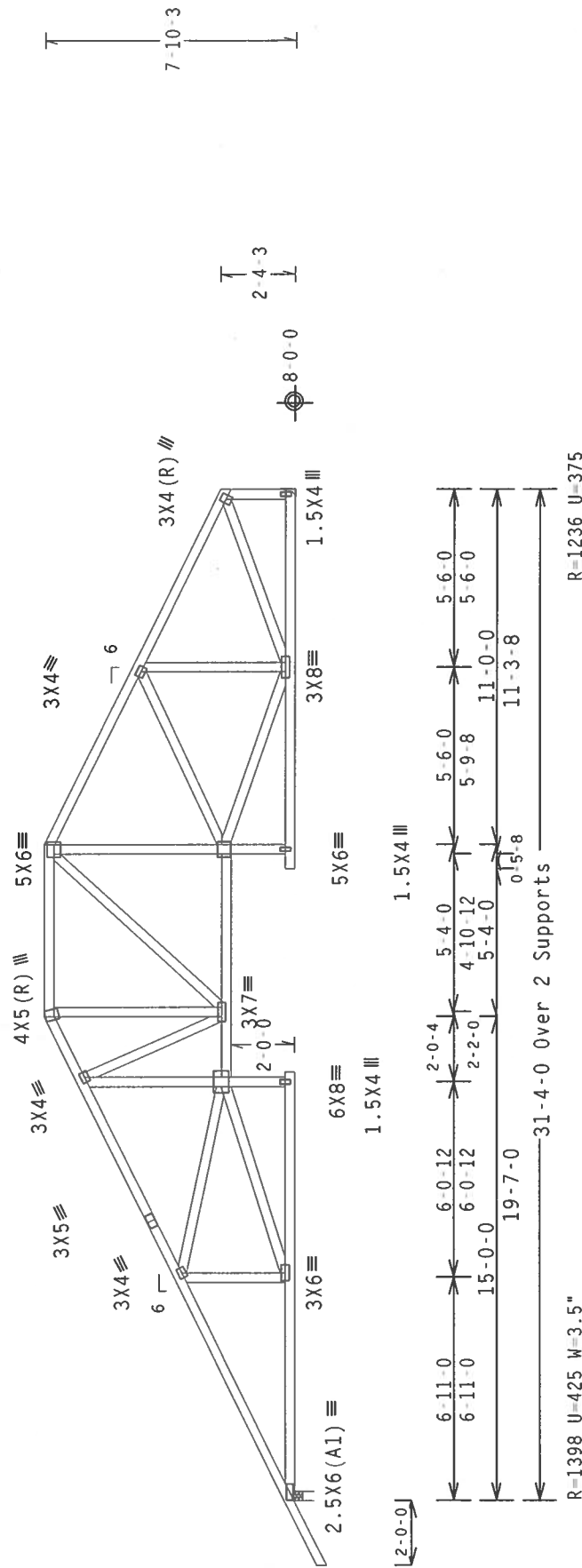


Mar 24 '05

REF	R487	--	96383
DATE	03/23/05		
DRW	HCUSR487		05082069
HC-ENG	DF/AP		
SEON-	132544		
TOT.LD.	40.0	PSF	
DUR.FAC.	1.25		
SPACING	24.0"		
JREF	1SLL487_Z08		

110 mph wind, 11.60 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.

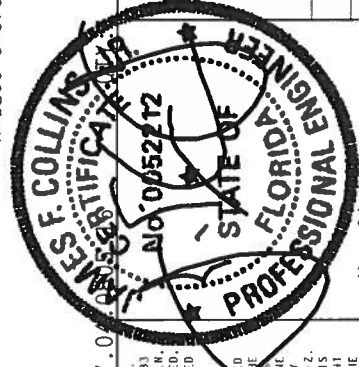
Deflection meets L/360 live and L/240 total load.



7.04

Scale = .1875"/Ft.

TC LL	20.0	PSF	REF	R487 --	96384
TC DL	10.0	PSF	DATE	03/23/05	
BC DL	10.0	PSF	DRW	HCUSR487	05082070
BC LL	0.0	PSF	HC-ENG	DF/AP	
TOT.LD.	40.0	PSF	SEQN-	132553	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1SL487_Z08	



Mar 24 '05

FL Certificate of Authorization # 567

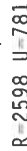
110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

Left side jacks have 7'-0" setback with 0'-0" cant and 2'-0" overhang.
End jacks have 7'-0" setback with 0'-0" cant and 2'-0" overhang. Right side jacks have 0'-0" setback with 0'-0" cant and 0'-0" overhang.

(A) Continuous lateral bracing equally spaced on member.

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

Deflection meets L/360 live and L/240 total load.



R=2577 I=800 W=3 5"

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

110 mph wind, 10.10 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.



R=1398 U=419 W=3.5"

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

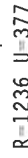
Scale = .1875"/Ft.

Haines City, FL 33844
FL Certificate of Authorization # 567

110 mph wind, 10.60 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.



F11-141-1-1R1-

Scale = .1875"/Ft.

TC LL	20.0	PSF	REF R487 - - 96387
TC DL	10.0	PSF	DATE 03/23/05
BC DL	10.0	PSF	DRW HCUR487 05082073
BC LL	0.0	PSF	HC-ENG DF/AP
TOT.LD.	40.0	PSF	SEQN - 132583
DUR.FAC.	1.25		
SPACING	24.0"		JREF - 1SLL487_Z08

Mar 24 '05

JREF- 1SLL487_Z08

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

*****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIG 1-03, (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUREAU OF STANDARDS, 400 DUPONT CIRCLE, N.W., WASHINGTON, D.C. 20540, AND THE NATIONAL BUREAU OF STANDARDS, 400 DUPONT CIRCLE, N.W., WASHINGTON, D.C. 20540, FOR THE LATEST EDITIONS OF THE NATIONAL BUILDING CODE OF AMERICA, GOOD ENTERPRISE NATIONAL BUILDING CODE, AND THE NATIONAL BUILDING CODE OF AMERICA, WOOD TRUSS COUNCIL OF AMERICA, GOOD ENTERPRISE NATIONAL BUILDING CODE, WASHINGTON, D.C. 20001, DR., SUITE 200, MADISON, WI 53719, AND MICA, WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DRIVE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. THE 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 NATIONAL DESIGN SPEC. BY ACPA) AND TPI. THE CONNECTIONS SHALL BE MADE TO 20'18"16GA (H/57K) NAT. A653 GRADE 40/60 (W. K/M-53) GALV. STEEL. CONECTOR PLATES ARE AVAILABLE AT 20'18"16GA (H/57K) NAT. A653 GRADE 40/60 (W. K/M-53) GALV. STEEL. APPLY AN INSPECTION OF PLATES FOLLOWED BY AN INSPECTION OF THE TRUSS PERMANENTLY MARKED WITH THE TPI: DESIGN NUMBER. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI: 1 SEC. 2.

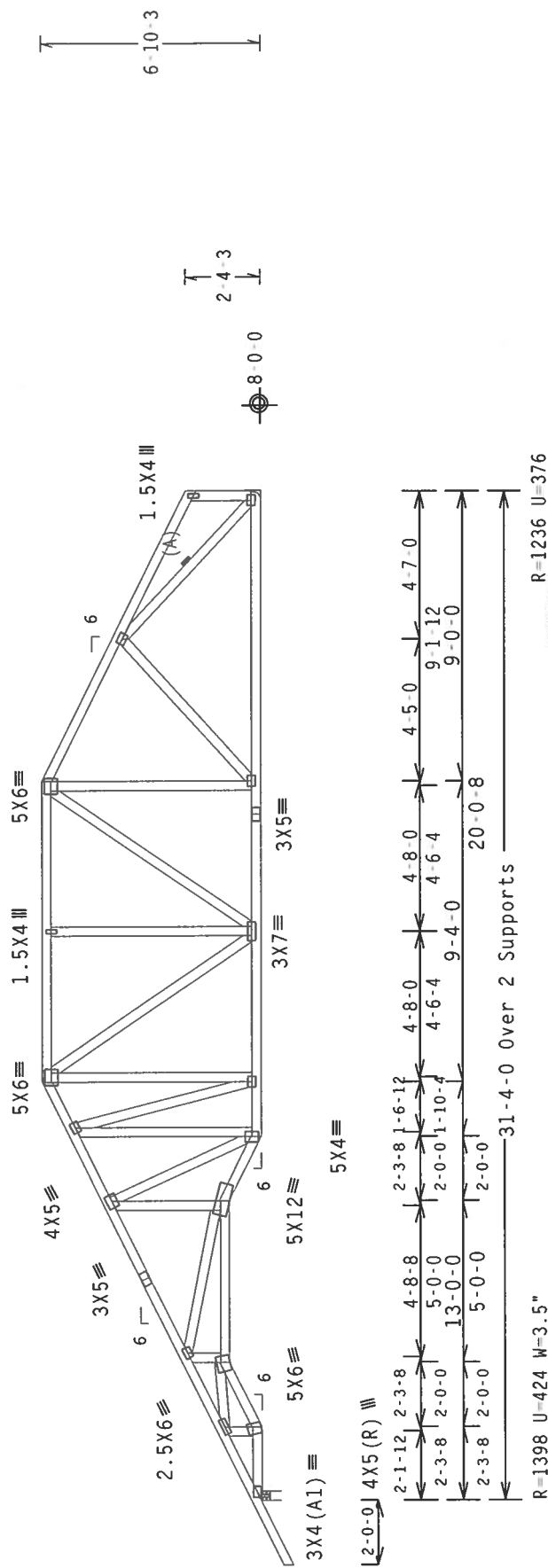
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 11.10 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.

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

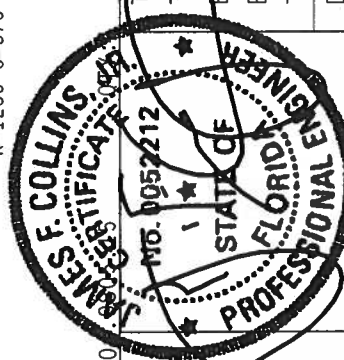
7.0

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

Scale = .1875"/Ft.

WARNING TRUSSES COULD BECOME EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, UNLOADING AND BRACING. REFER TO BCSP 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE CRANSTON PLATE INSTITUTE, 503 D'AMORE DR., SUITE 200, MADISON, WI 53719, AND MICA (WOOD TRUSS COMPANY OF AMERICA, 6200 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CHAILL.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS, INC. SHALL NOT BE RESPONSIBLE FOR ANY OF THE FOLLOWING: ANY FAILURE OF BUILDING PRODUCTS, THE CONFORMANCE OF ANY COMPONENTS WITH THE DESIGN, OR THE DESIGN OF BUILDING PRODUCTS. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (A572), AISC 360, AISC 358, AISC 341, AISC 308, AISC 305, AISC 301, AISC 300, AISC 288, AISC 287, AISC 286, AISC 285, AISC 284, AISC 283, AISC 282, AISC 281, AISC 280, AISC 279, AISC 278, AISC 277, AISC 276, AISC 275, AISC 274, AISC 273, AISC 272, AISC 271, AISC 270, AISC 269, AISC 268, AISC 267, AISC 266, AISC 265, AISC 264, AISC 263, AISC 262, AISC 261, AISC 260, AISC 259, AISC 258, AISC 257, AISC 256, AISC 255, AISC 254, AISC 253, AISC 252, AISC 251, AISC 250, AISC 249, AISC 248, AISC 247, AISC 246, AISC 245, AISC 244, AISC 243, AISC 242, AISC 241, AISC 240, AISC 239, AISC 238, AISC 237, AISC 236, AISC 235, AISC 234, AISC 233, AISC 232, AISC 231, AISC 230, AISC 229, AISC 228, AISC 227, AISC 226, AISC 225, AISC 224, AISC 223, AISC 222, AISC 221, AISC 220, AISC 219, AISC 218, AISC 217, AISC 216, AISC 215, AISC 214, AISC 213, AISC 212, AISC 211, AISC 210, AISC 209, AISC 208, AISC 207, AISC 206, AISC 205, AISC 204, AISC 203, AISC 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-291, AISC -292, AISC -293, AISC -294, AISC -295, AISC -296, AISC -297, AISC -298, AISC -299, AISC -300, AISC -301, AISC -302, AISC -303, AISC -304, AISC -305, AISC -306, AISC -307, AISC



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

Mar 24 '05

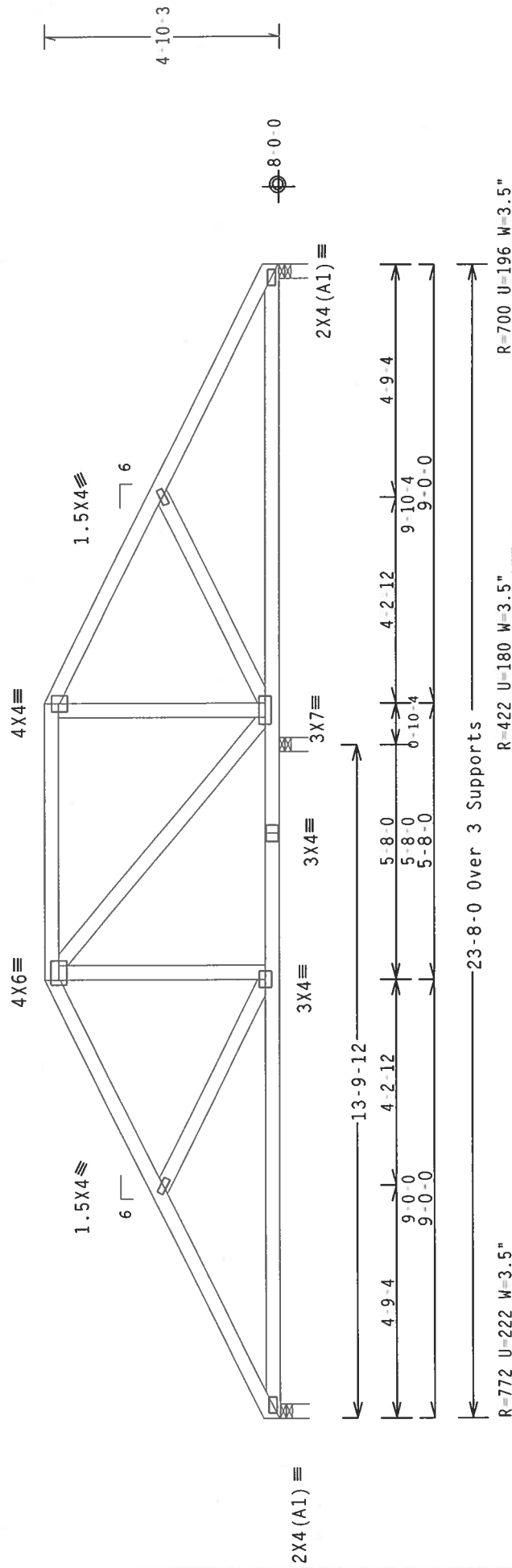
SPACING 24 0"

REF - 1511487 708

110 mph wind, 10.60 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.

NOTE: This truss is not reversible. Per ANSI/TPI 1-2002, Section 2.4.3 Truss Manufacturer is responsible to provide information for proper orientation of trusses. This information shall be provided to the contractor.



R-772 U-222 W=3.5"

R-422 U=180 W=3.5"

R=700 U=196 W=3.5"

PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

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

Scale = .3125"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THESE TRUSSES ARE NOT TO BE USED FOR ANY PURPOSES OTHER THAN THOSE SPECIFICALLY INTENDED. THE TRUSSES ARE THE PROPERTY OF THE MANUFACTURER AND ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE MANUFACTURER. THE TRUSSES ARE NOT TO BE USED FOR ANY PURPOSES OTHER THAN THOSE SPECIFICALLY INTENDED. THE TRUSSES ARE THE PROPERTY OF THE MANUFACTURER AND ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE MANUFACTURER.

ALPINE

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

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Mar 24 '05

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.

SPACING 24-0"

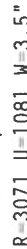
TRF - 1511 487 708

Bearing blocks: Nail type: 10d_common_nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
2 13.667' 1 12" 9 Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGLK0503 for additional information.

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

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.



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

Scale = .3125"/Ft.

TTC LL	20.0 PSF	REF R487 --	96391
TTC DL	10.0 PSF	DATE	03/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05082090
BC LL	0.0 PSF	HC-ENG	DF/AP
TOT.LD.	40.0 PSF	SEQN-	132532
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SLL487 Z08

Professional Engineer Seal for the State of Florida, No. 0052212, dated Mar 24 '05.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RECOMMEND USING THE COMPANIES SAFETY INFORMATION PUBLISHED BY TP1 TRUSS COMPANY, INC., 780 DOWNSIDE DR., SUITE 200 MADISON, WI 53719, AND WICA WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., SUITE 100, MADISON, WI 53719, FOR SAFE PRACTICES PRIOR TO TRUSSING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEER PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE DESIGNED COMPONENTS WITHIN THE SPECIFIC MANUFACTURING DESIGN SPEC. (SEE PERMITS) OR TO APPLY THE DESIGNER'S COMMENTS WILL BE AT THE USER'S RISK. ALL TRUSSES MUST BE SHIPPED AND STORED IN AN UPRIGHT POSITION. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS ISOL 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE USABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1-1 SEC. 2.

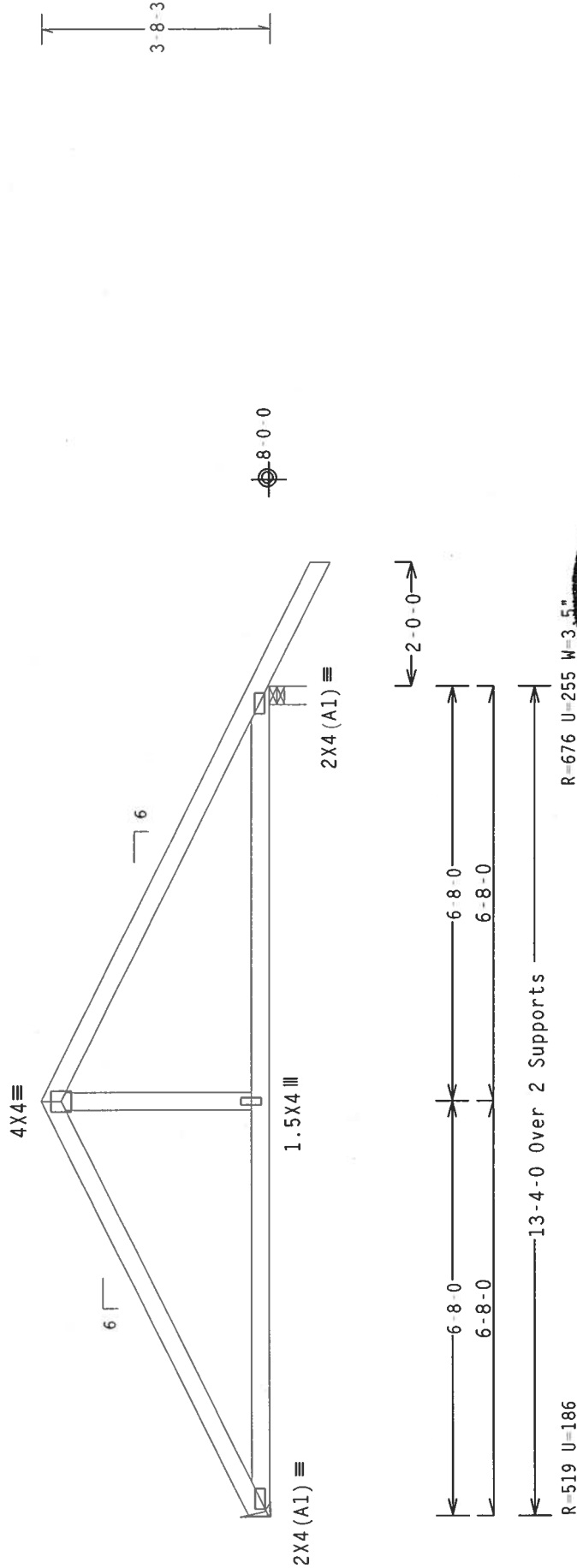


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Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 9.51 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.0

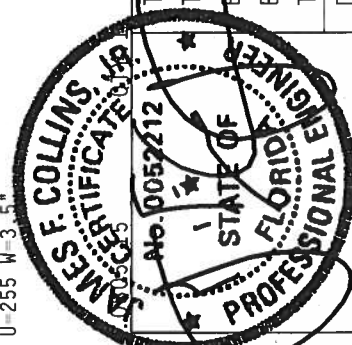
FL/-4/-/-R/-

Scale = .375"/Ft.

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ANY FAILURE TO BUILD OR BRACE THE TRUSS CORRECTLY SHALL BE THE RESPONSIBILITY OF THE INSTALLER. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND FOR THE PROPER INSTALLATION AND BRACING OF THE TRUSSES. THE TRUSS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL DESIGN SPEC, BY ACPA AND TPI. THE TRUSS SHALL BE MADE OF 2018/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (IN. K/H-S) GALV. STEEL. APPLY CONNECTOR 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 ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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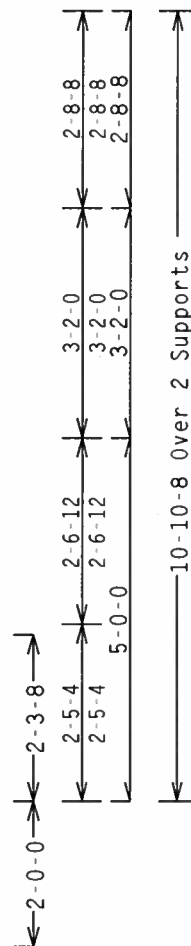


Mar 24 '05

REF R487 -- 96392
DATE 03/23/05
DRW HCUSR487 05082091
HC-ENG DF/AP
SEQN- 132300
JREF- 1SLL487_Z08

Left side jacks have 5-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 5-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 2-8-8 setback with 0-0-0 cant and 0-0-0 overhang.

Deflection meets L/360 live and L/240 total load.



$R=1242$ $U=483$ $W=3.5''$

R=724 U=209 W=3.5"

Design Crit: TPI-1995(STD)/FBC

0.

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

Scale = 375"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSSING PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND NCA WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID BEAM.

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1950 Marley Drive
Haines City, FL 33844

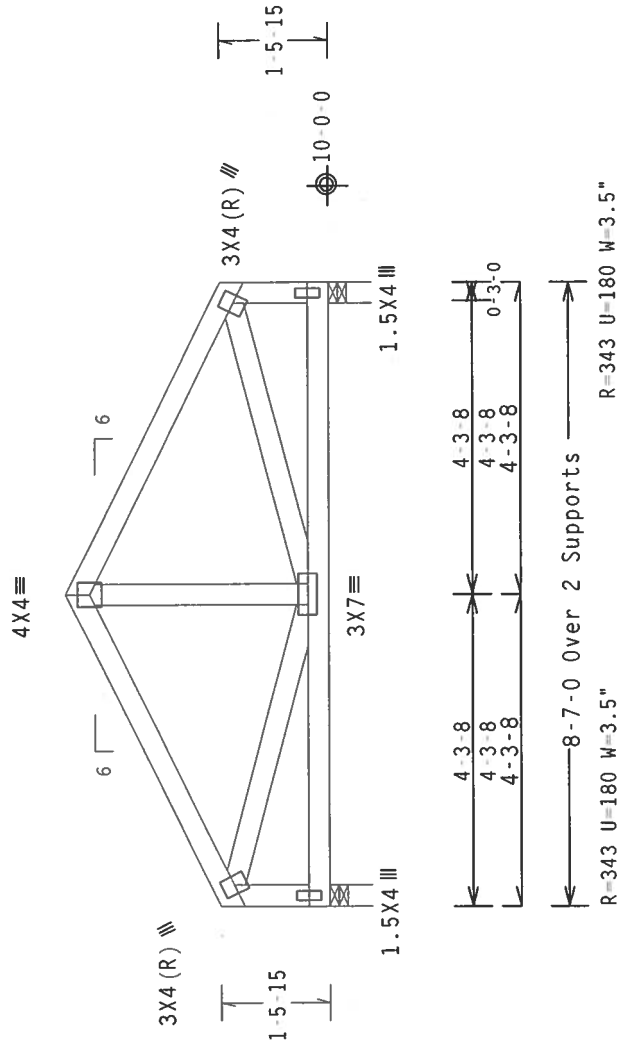
Haines City, FL 33844
FL Certificate of Authorization # 567

Mar 24 '05

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 12.57 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

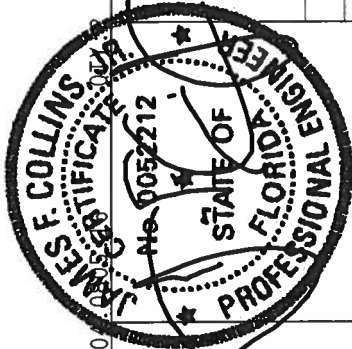
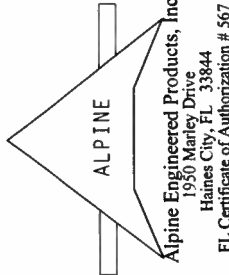
7.0

FL/-4/-/-R/-

Scale = .375"/Ft.

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE ABOVE PROVISIONS, INCLUDING THE DESIGN SPEC. BY A/E/P/A, AND THE ALPINE CONTRACTOR PLATES ARE MADE OF 20/18/16GA (4-H/5/1/5) ASTM A653 GRADE 40/60 (4. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



REF	R487 --	96395
DATE	03/23/05	
DRW	HCUSR487	05082061
HC-ENG	DF/AP	*
SEQN	132280	
DUR.FAC.	1.25	
SPACING	24.0"	
JREF	1SLL487_Z08	

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.

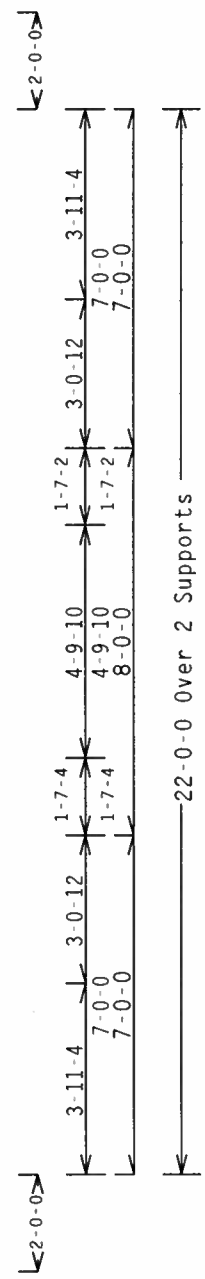
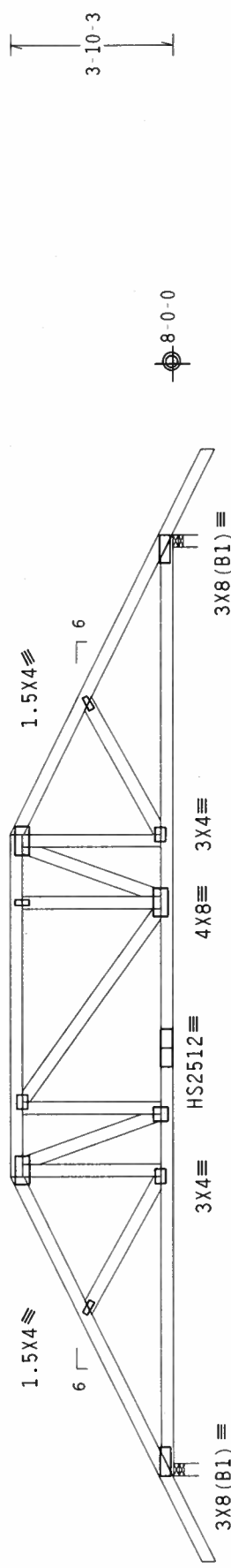
SPECIAL LOADS

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

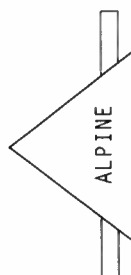
- TC - From 60 PLF at -2.00 to 60 PLF at 24.00
- BC - From 4 PLF at -2.00 to 4 PLF at 0.00
- BC - From 20 PLF at 0.00 to 20 PLF at 22.00
- BC - From 4 PLF at 22.00 to 4 PLF at 24.00
- TC - 420 LB Conc. Load at 7.00
- BC - 403 LB Conc. Load at 7.00
- BC - 1204 LB Conc. Load at 8.60

Deflection meets L/360 live and L/240 total load.

4X8= 3X4= 1.5X4= 4X8=



R=2310 U=949 W=3.5" R=1733 U=697 W=3.5"



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PLT TYP. 20 Gauge HS, Wave TPI Design Crit: TPI-1995 (STD)/FBC

Scale = .25" / Ft.

TC LL	20.0 PSF	REF	R487 - - 96396
TC DL	10.0 PSF	DATE	03/23/05
BC DL	10.0 PSF	DRW	HCUR487 05082092
BC LL	0.0 PSF	HC-ENG	DF/AP
TOT.LD.	40.0 PSF	SEQN	132370
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SLL487_Z08

Mar 24 '05

Professional Engineer
State of Florida
No. 0052212
JAMES F. COLLINS, JR.
Professional Engineer
State of Florida

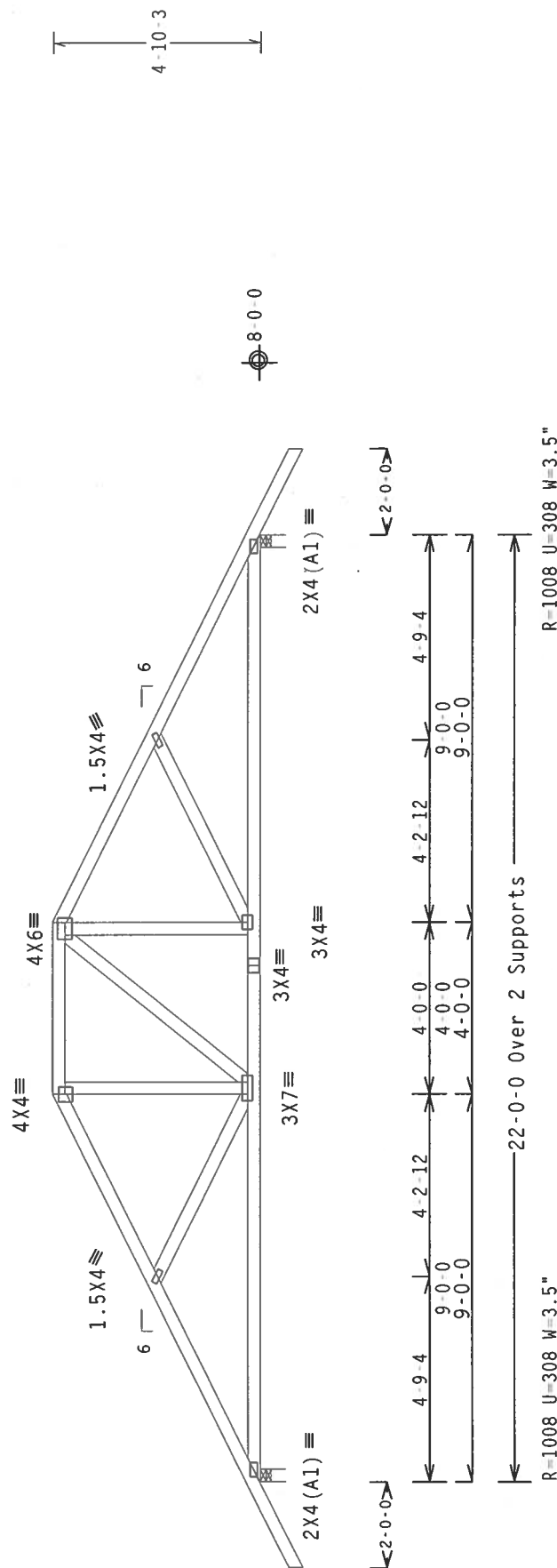
ALPINE ENGINEERED PRODUCTS, INC.
DESIGN CRITERIA: TPI-1995 (STD)/FBC
TRUSS IN CONFORMANCE WITH TPI-1995 (STD)/FBC
CORRELATOR PLATES ARE MADE OF 2018/166A (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.
DESIGN CRITERIA: TPI-1995 (STD)/FBC
TRUSS IN CONFORMANCE WITH TPI-1995 (STD)/FBC
CORRELATOR PLATES ARE MADE OF 2018/166A (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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
Web	2x4	SP	#3	

110 mph wind, 10.10 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04

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

Scale = .25"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP TRUSSING COMPONENT SAFETY (INFORMATION), PUBLISHED BY IPTI (TRUSS PLATE INSTITUTE, 5930 OXFORD DR., SUITE 200, MADISON, WI 53719), AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD 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 TRUSSES IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE DESIGN CONTRACTOR COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (4145/37) ASTM A653 GRADE 40/60 (IN K/H/S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING 160A-2 INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC.-2.

ALPINE

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

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Mar 24 '05

REF- 1SLL487_Z08

G 24.0"

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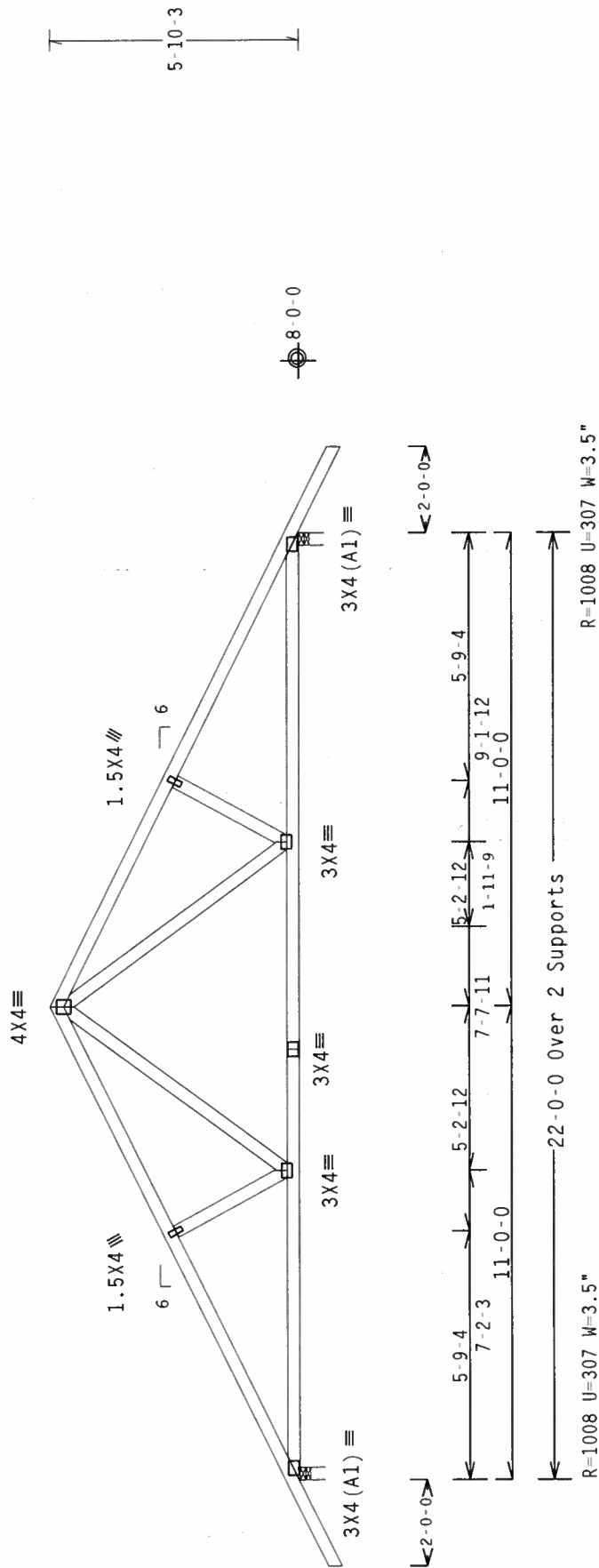
Haines City, FL
Certificate of Award

ET C

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

110 mph wind, 10.60 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.

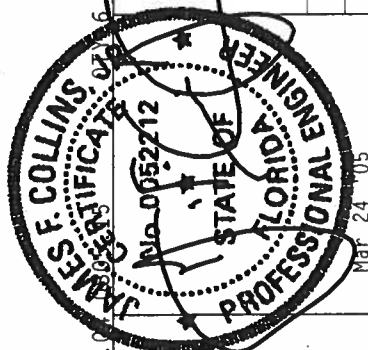


PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

Scale = .25" / Ft.

TC LL	20.0 PSF	REF	R487 - - 96398
TC DL	10.0 PSF	DATE	03/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05082063
BC LL	0.0 PSF	HC-ENG	DF/AP
TOT.LD.	40.0 PSF	SEQN-	132383
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SLL487_Z08



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

****IMPORTANT**** 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 OR BRACE IN ACCORDANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGNER'S RESPONSIBILITY IS TO PROVIDE THE DESIGN INFORMATION AND TO ENSURE THAT THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AISC (AISC) AND TPI. APPLY CONNECTOR PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # 567

2 COMPLETE TRUSSES REQUIRED

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 : W7 2x4 SP #2 Dense:

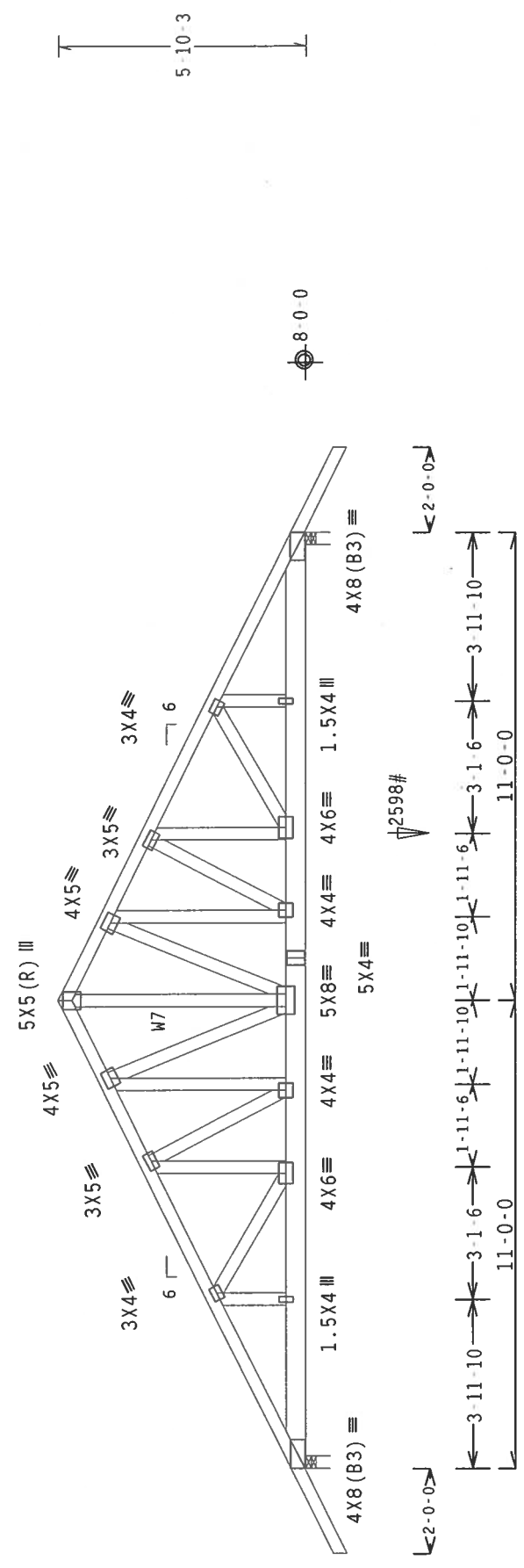
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at 2.00 to 60 PLF at 24.00
BC - From 4 PLF at 2.00 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 22.00
BC - From 4 PLF at 22.00 to 4 PLF at 24.00
BC - 1242 LB Conc. Load at 4.94
BC - 1236 LB Conc. Load at 6.94, 8.94, 10.94, 12.94
BC - 2598 LB Conc. Load at 14.94

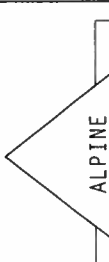
Nailing Schedule: (10d common nails)
Top Chord: 1 Row @ 12" o.c.
Bot Chord: 1 Row @ 4" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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.



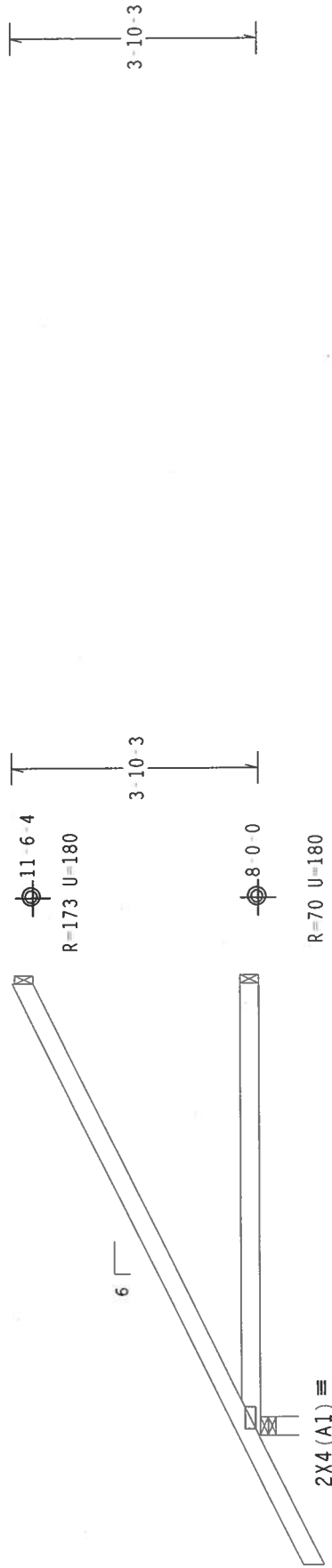
R-5519 U=1763 W=3.5" R-5281 U=1691 W=3.5"

PLT TYP. Wave TPI	Design Crit: TPI-1995(STD)/FBC	7.0	FL/-4/-/-/R/-	Scale =.25"/Ft.
 Alpine Engineering 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 PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.			REF R487 -- 96399
	IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (IN. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.			DATE 03/23/05
				DRW HCUSR487 05082079
				HC-ENG DF/AP
				SEQN- 132617
				DUR.FAC. 1.25
JREF- 1SLL487_Z08				
			SPACING 24.0"	

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 9.60 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

7.0

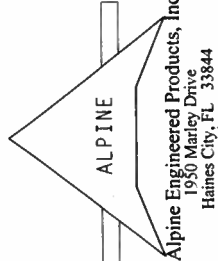
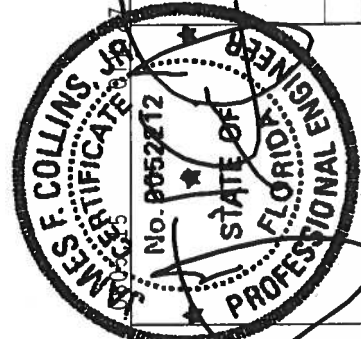
FL/-/4/-/R/-

Scale = .375" / Ft.

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS AND STANDARDS. (SEE TPI 1-03 (B) AND TPI 1-03 (C) FOR TRUSS BRACING REQUIREMENTS FOR EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

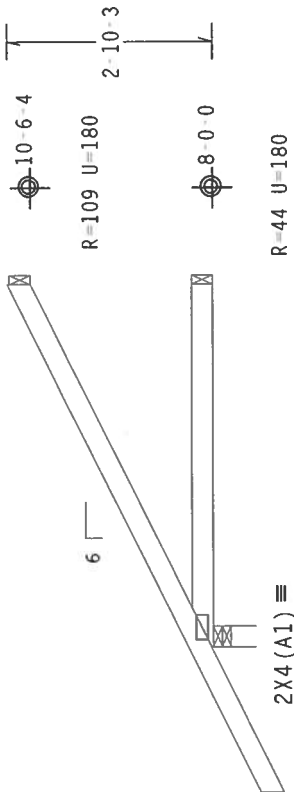
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TC DL	10.0 PSF	DATE	03/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05082080
BC LL	0.0 PSF	HC-ENG	DF/AP	
TOT.LD.	40.0 PSF	SEQN-	132200	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SLL487_Z08	



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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 9.10 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.



←-2-0-0→

←-5-0-0 Over 3 Supports →
R-376 U=180 W=3.5"

PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD) / FBC

7.0

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

Scale = .375" / Ft.

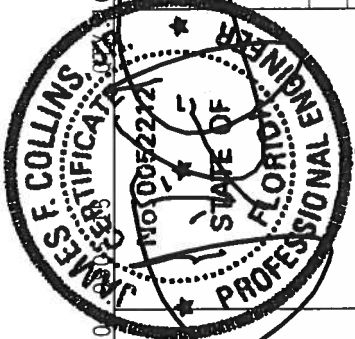
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1950 Marley Drive
Haines City, FL 33844

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES DESIGN CONFORMS WITH THE FOLLOWING: 1. PROVISIONS OF THE NATIONAL BUILDING CODE (NBC) 2. TPI TRUSS DESIGN PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Mar 24 '05

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

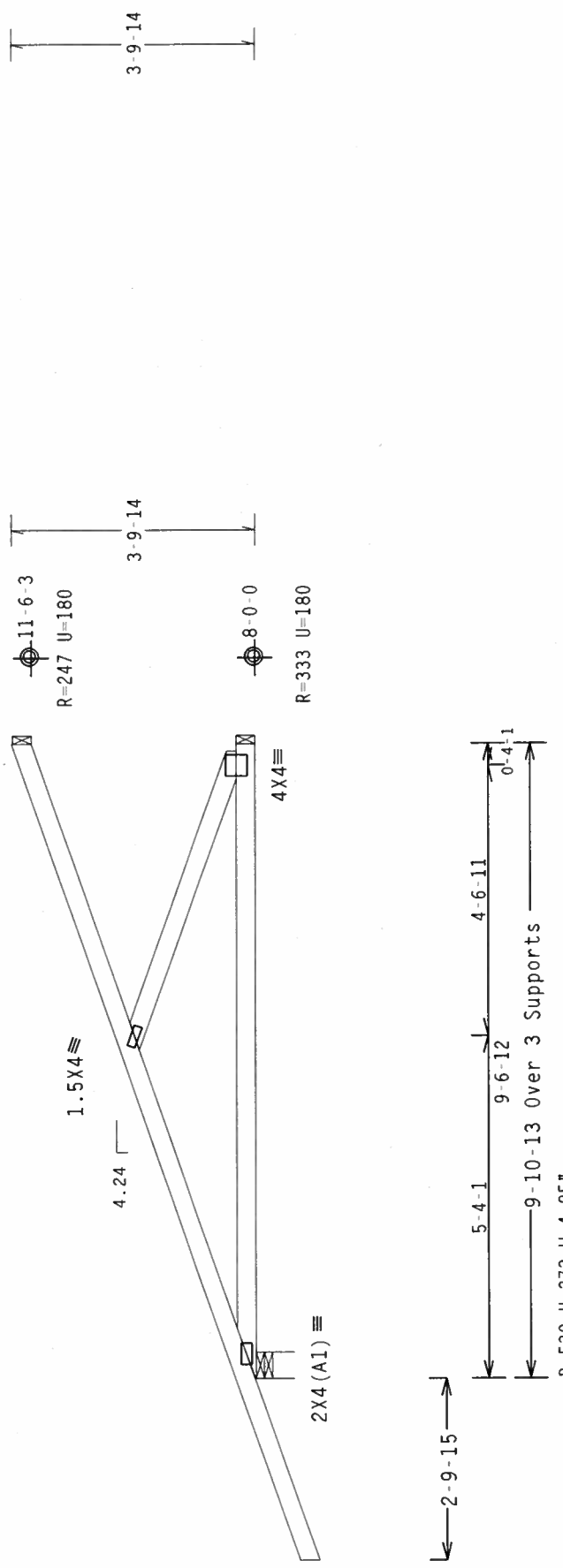
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DATE	03/23/05	
DRW	HCUSR487	05082081
HC-ENG	DF / AP	
SEQN	-	132208
JREF	-	1SL487_Z08

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.

Hipjack supports 7-0-0 setback jacks with no webs.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

7.0

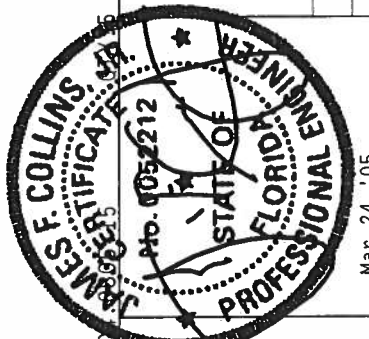
FL/-4/-/-R/-

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487 --	96402
TC DL	10.0 PSF	DATE	03/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05082082
BC LL	0.0 PSF	HC-ENG	DF/AP	
TOT.LD.	40.0 PSF	SEQN	132227	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1SL487_Z08	

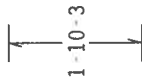
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH TPI. PROVIDING THESE TRUSSES SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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110 mph wind, 8.60 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.



3-0-0 Over 3 Supports

R-322 U=180 W=3.5"

Design Crit: TPI-1995 (STD)/FBC

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

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487-- 96403
TC DL	10.0 PSF	DATE	03/23/05

HC-ENG DF/AP

JREF- 1SLL487_Z08

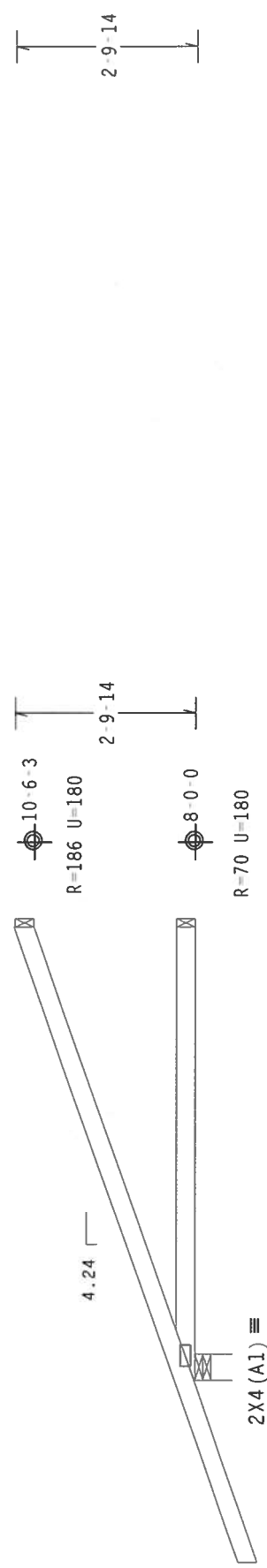
FL Certificate of Authorization # 567

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

Hipjack supports 5'-0" setback jacks with no webs.

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.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

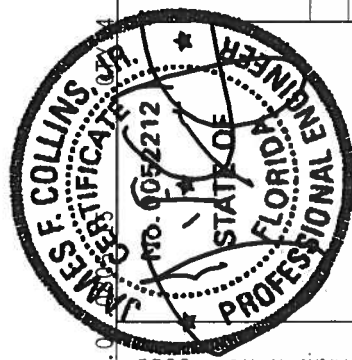
7.0

FL/-4/-/-R/-

Scale = .375"/Ft.

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1950 Marley Drive
Haines City, FL 33844
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****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-01 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 HONOLULU DRIVE, SUITE 200, HAWAII, HI 96813), AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE CIRCLE, SUITE 100, FARMINGTON, CT 06031), FOR ADDITIONAL INFORMATION. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROPER ATTACHMENT OF THE TRUSS TO THE BUILDING STRUCTURE. THE TRUSS MANUFACTURER 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/N/S/K) ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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 -- 96404
DATE	03/23/05
DRW	HCUSR487 05082084
HC-ENG	DF/AP
SEQN	132247
JREF	1SLL487_Z08

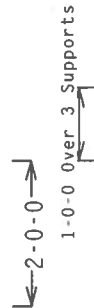
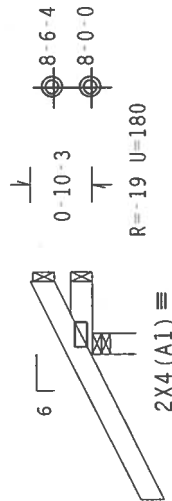
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

** Negative reaction(s) of 190# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 8.10 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.

** R=191 U=180



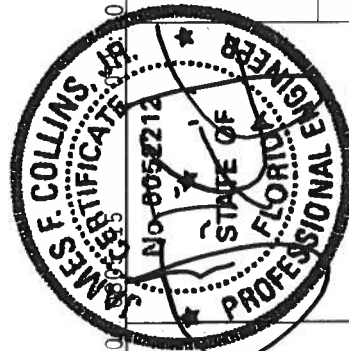
R=418 U=210 W=3.5"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

Scale =.375"/Ft.

TC LL	20.0 PSF	REF	R487 -- 96405
TC DL	10.0 PSF	DATE	03/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05082085
BC LL	0.0 PSF	HC-ENG	DF/AP
TOT.LD.	40.0 PSF	SEQN	132239
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SLL487_Z08



Mar 24 '05

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/57K) ASTM A653 GRADE 40/60 (M, K/M.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. ANY INSPECTION PLACES OR LOCATIONS SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT MANUFACTURER. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



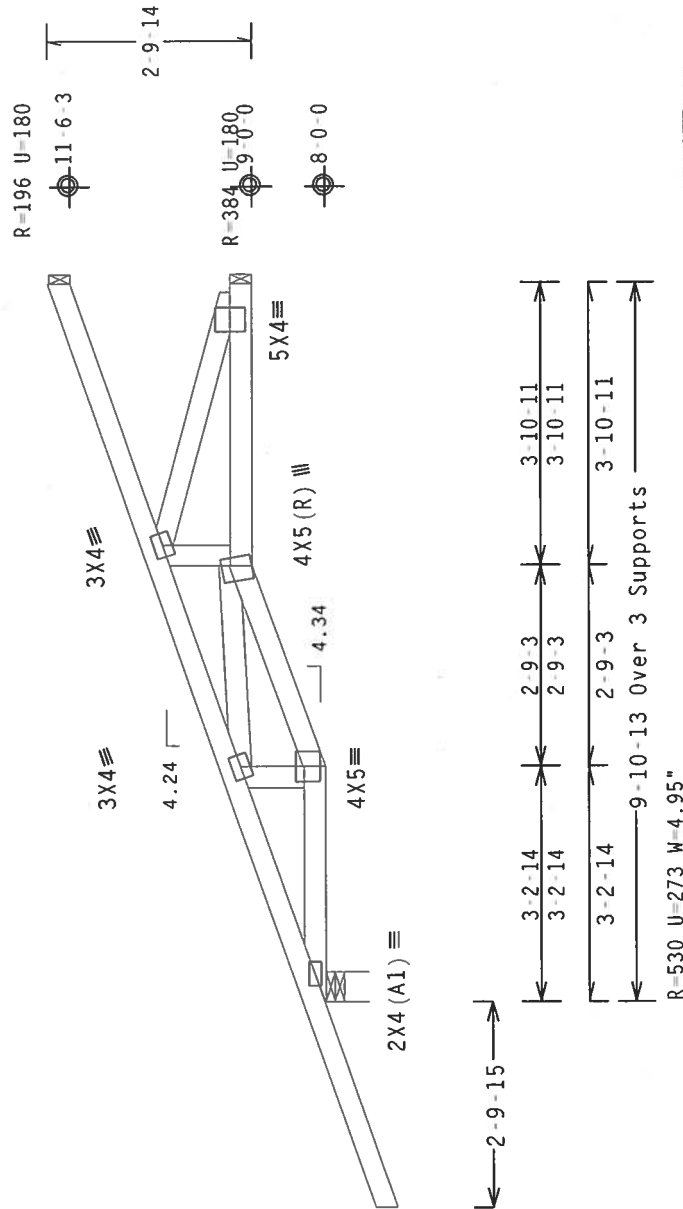
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1950 Marley Drive
Haines City, FL 33844
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Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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.

Hipjack supports 7'-0" setback jacks with no webs.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

7.0

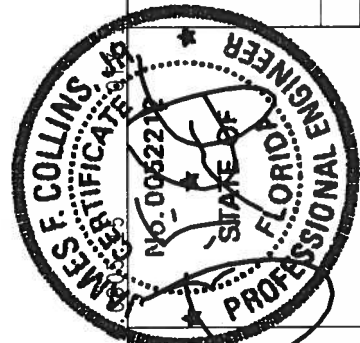
FL/-/4/-/-/R/-

Scale = .375" / Ft.

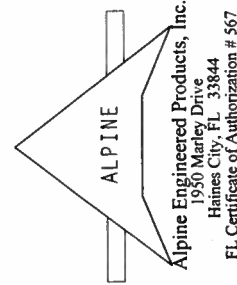
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TC DL	10.0 PSF	DATE	03/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05082086
BC LL	0.0 PSF	HC-ENG	DF/AP
TOT.LD.	40.0 PSF	SEQN	132272
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SL487_Z08

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD OR TRUSS IN CONFORMANCE WITH THE PROVISIONS OF THIS NATIONAL DESIGN SPEC. (NDS) AND TPI'S DESIGN SPEC. (DS) OR FOR PLATES MADE OF 20/18/16GA (24-H/5/3/25) ASTM A653 GRADE 40/60 (44-K/18/5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

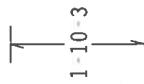


Mar 24 '05



110 mph wind, 8.60 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8 wind TC DL=2.8 psf, wind BC DL=2.2 psf.

Shim all supports to solid bearing.



2-3-8
3-0-0 Over 3 Supports
R-322 U=180 W=3.5"

7.0

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PLATE INSTITUTE, 593 D'AMORIO DR., SUITE 200, MADISON, WI 53719), AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID BEAM.

TC LL 20.0 PSF

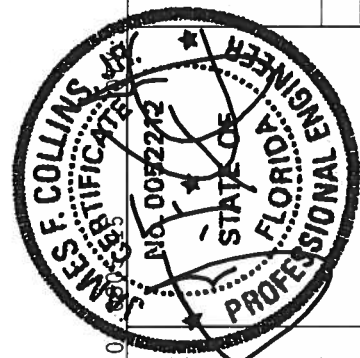
TC DI 10 0 DSE

LC DL	10.0 F31
2	2
3	3

BC LL 0.0 PSF

DUR. FAC. 1.25

18EE-1511487 708



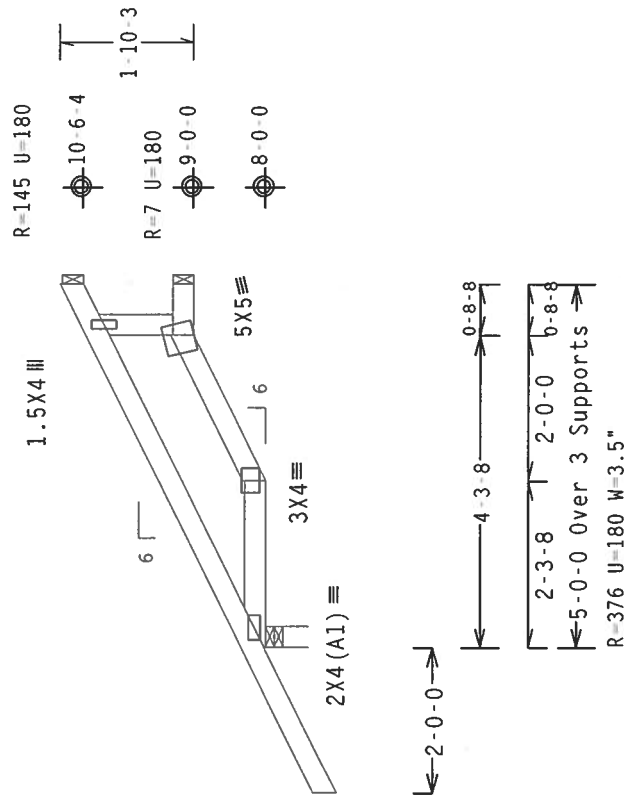
Mar 24 '05

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 9.10 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

7.0

FL/-4/-/-R/-

Scale = .375"/Ft.

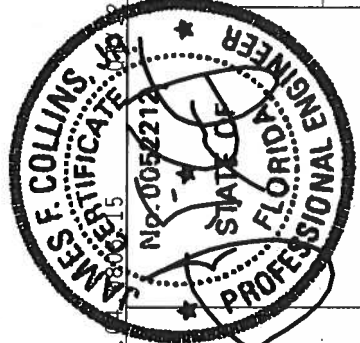
ALPINE

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1950 Marley Drive
Haines City, FL 33844

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****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ORFORD DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 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 SHALL NOT BE RESPONSIBLE FOR ANY DETAILING OR MODIFICATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Mar 24 '05

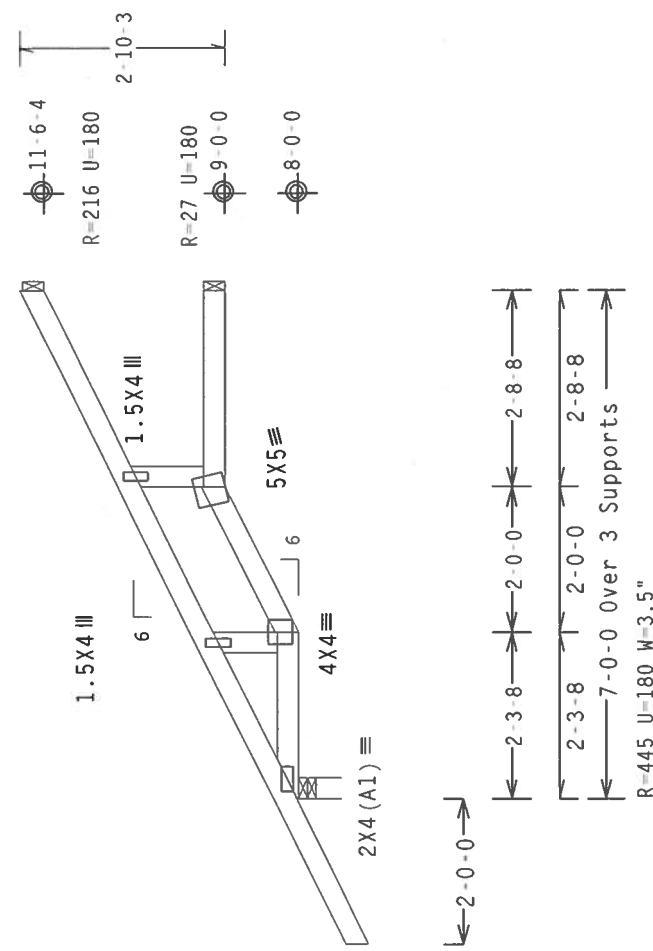
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R487 - - 96408
DATE	03/23/05
DRW	HCUSR487 05082088
HC-ENG	DF/AP
SEQN	132256
JREF	1SLL487_Z08

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

110 mph wind, 9.60 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.



PLT TYP. Wave TPI

ALPINE

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

Design Crit: TPI-1995(STD)/FBC

7.0

FL/-4/-/-R/-

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487-- 96409
TC DL	10.0 PSF	DATE	03/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05082064
BC LL	0.0 PSF	HC-ENG	DF/AP
TOT.LD.	40.0 PSF	SEQN-	132262
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SLL487_Z08

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONOHIO 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.

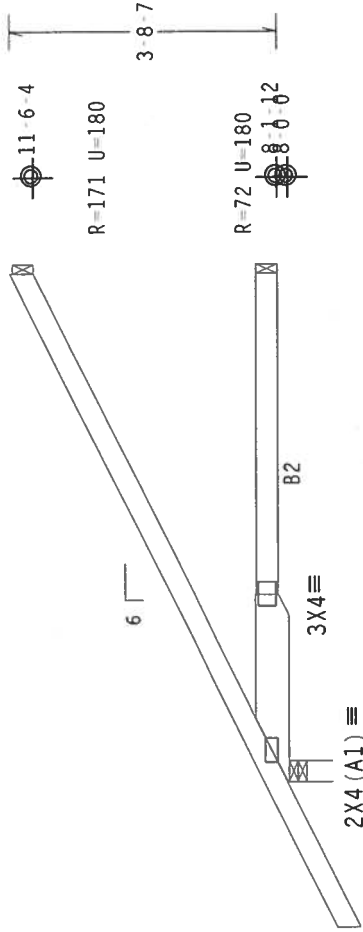
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN ACCORDANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AEPAL AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (H-H/S/K) ASTM A653 GRADE 40/60 (IN. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

LES F. COLLINS
REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 00522712
Mar 24 '05

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B2 2x4 SP #2 Dense:

Deflection meets L/360 live and L/240 total load.

110 mph wind, 9.60 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.



←-2-0-0-→

4-3-8 2-8-8
7-0-0 Over 3 Supports
R-445 U-180 W=3.5"

PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

7.04

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

Scale = .375"/Ft.

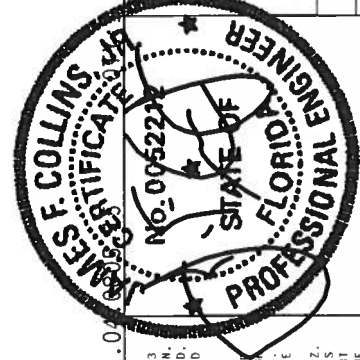
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. TRUSSES SHALL BE CONFORMANT WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W.H/S/K) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER 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



Mar 24 '05

TC LL	20.0 PSF	REF	R487 - 96410
TC DL	10.0 PSF	DATE	03/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05082089
BC LL	0.0 PSF	HC-ENG	DF/AP
TOT.LD.	40.0 PSF	SEQN	132266
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SLL487_Z08

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.

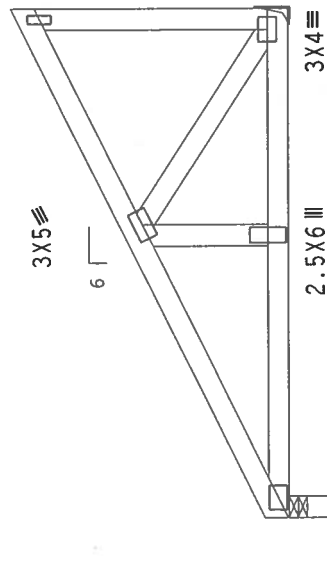
SPECIAL LOADS

		(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC	From 60 PLF at 0.00 to 60 PLF at 7.00	
BC	From 20 PLF at 0.00 to 20 PLF at 7.00	
BC	1006 LB Conc. Load at 3.73	
BC	519 LB Conc. Load at 5.73	

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.

1.5X4 III

 $3 \times 4(A1) = 12$

3'-10.9" 3'-10.9" 2'-11.11" 0'-1.13"

7'-0.0" Over 2 Supports

R=881 U=343 W=3.5"

R=1204 U=456

R-1204 U-456

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04

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

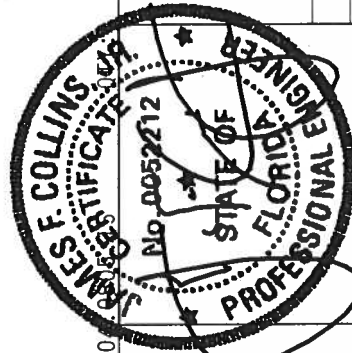
Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 S. GILBERT ST., SUITE 200, MADISON, WI 53719, AND NICA WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

****IMPORTANT**** TURNISH 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 STRUCTURE IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD (NATIONAL DESIGN SPEC. BY AISC) AND STEEL EDITIONS THEREAFTER. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANETX AS OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS PROJECT. THE USE OF THIS CORNER FOR ANY BUILDING IS NOT THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/D11.1 SEC.2.

Haines City, FL 33844
FL Certificate of Authorization # 567



Mar 24 '05

JREF- 1SLL487_Z08

T-BRACING
OR
L-BRACING:

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

NOTES:

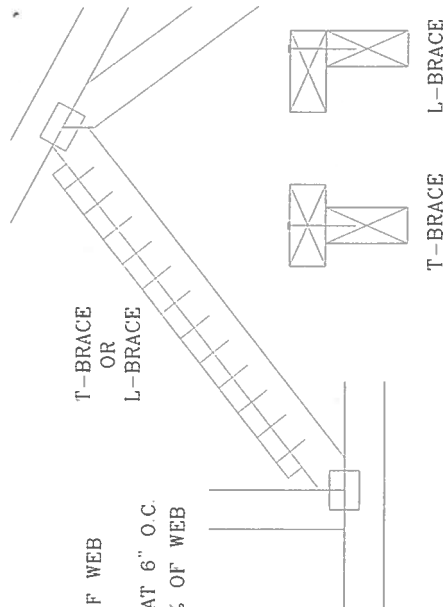
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED
CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB
BRACING.

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

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

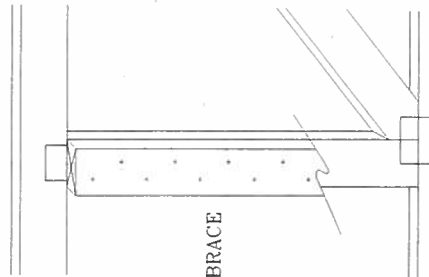
T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

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



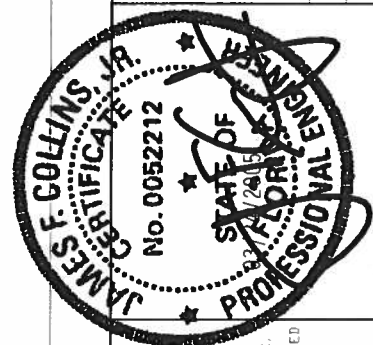
SCAB BRACING:

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



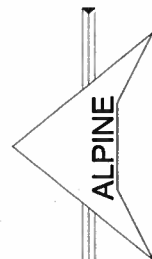
THIS DRAWING REPLACES DRAWING 579.640

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



...MARINER... TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
...REPAIRS... REFER TO THE FOLLOWING LITERATURE, PUBLISHED BY THE AMERICAN INSTITUTE OF
...PLATE INSTITUTE, 583 DUNDONPARK DR. SUITE 200, MADISON, WIS. 53719.
...OF AMERICA, 6300 ENTERPRISE LN. MADISON, WIS. 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING
...THOSE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED
...TRUSSING PANELS AND BOTTOM CHORD SHALL HAVE 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. FOR ARCHA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2017/18 6063-T6 AL 6063 AL 6063 GRADE ALUMINUM. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES). POSITION OF TRUSSING 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.
POMPANO BEACH, FLORIDA

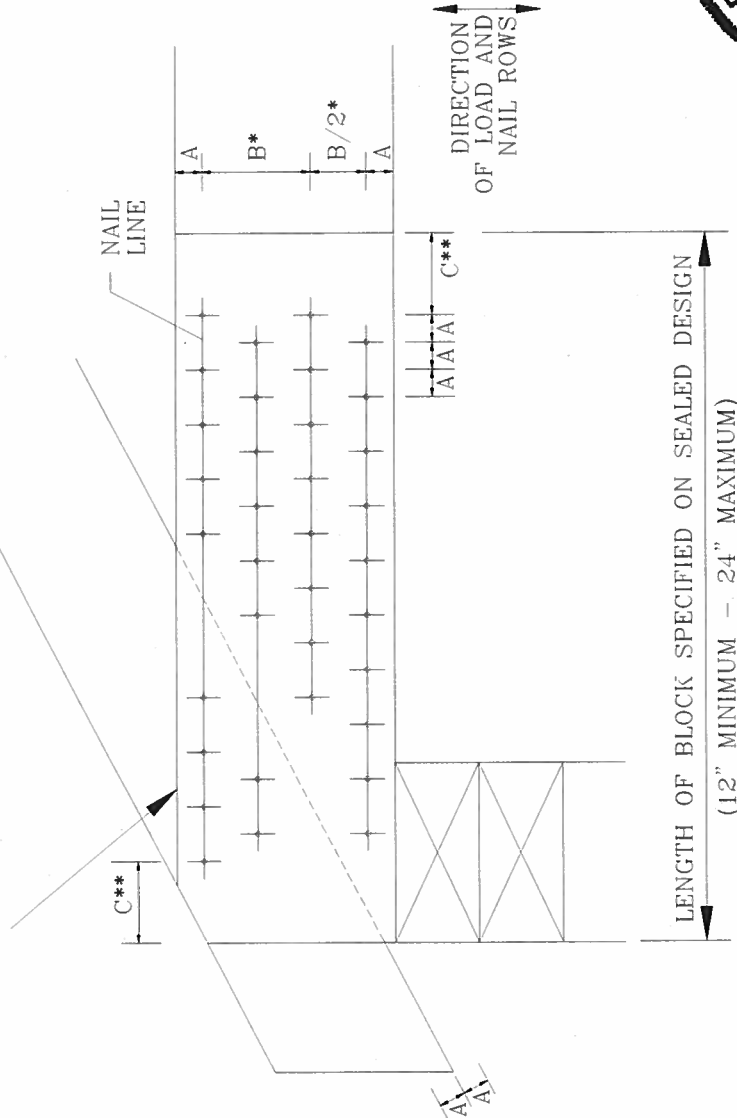
BEARING BLOCK NAIL SPACING DETAIL

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

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

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

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

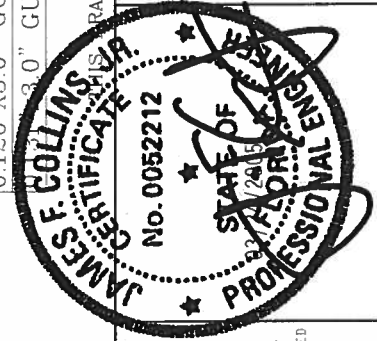


MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

MINIMUM NAIL SPACING DISTANCES

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



DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

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

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

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS OF THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND INSURANCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND INSURANCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND INSURANCE.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

CERTIFICATE OF OCCUPANCY

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 15-4S-16-03023-395

Building permit No. 000024653

Use Classification SFD, UTILITY

Fire: 55.80

Permit Holder STANLEY CRAWFORD

Waste: 167.50

Owner of Building BEN & MARGARITA LITTLE

Total: 223.30

Location: 317 SW WILSHIRE DR (CALLAWAY LOT 95 U-3)

Date: 12/22/2006

Handwritten Signature

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



Notice of Treatment

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

Address: BAYVIEW

City: Lake City Phone: 752 1703

Site Location: Subdivision Calloway

Lot # 95 Block# 24653

Address 317 SW Wilshire Dr

Product used Active Ingredient % Concentration

☐ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☒ Bora Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☐ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

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

If this notice is for the final exterior treatment, initial this line 100.

Date

Time

Print Technician's Name

Remarks:

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©

Notice of Treatment

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

Address: BAYVIEW

City: Lake City Phone: 752 1703

Site Location: Subdivision Calloway

Lot # 95 Block# 24653

Address 317 SW Wilshire Dr

Product used Active Ingredient % Concentration

☐ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☒ Bora Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☐ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

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

If this notice is for the final exterior treatment, initial this line 1130.

Date

Time

Print Technician's Name

Remarks:

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

6/9/06

7 SW Wilshire Dr

Lake City

Address of Treatment or Lot/Block of Treatment)

City

Florida Pest Control & Chemical Co.

www.flapest.com

Product to be used: Bora-Care Termiticide (Wood Treatment)

Chemical to be used: 23% Disodium Octaborate Tetrahydrate

Application will be performed onto structural wood at dried-in stage of construction. The Termiticide application shall be applied according to EPA registered label instructions as stated in the Florida Building Code Section 1861.1.8

Information to be provided to local building code offices prior to concrete foundation installation.)