

DATE 12/05/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025277

APPLICANT CHARLES TIMMONS PHONE 386.752.0375  
ADDRESS 641 NW HARRIS LAKE DRIVE LAKE CITY FL 32055  
OWNER TRAVIS L. TIMMONS PHONE 386.623.4954  
ADDRESS 323 SW MCGUIRE TERRACE LAKE CITY FL 32024  
CONTRACTOR CHARLES TIMMONS PHONE 386.752.0375  
LOCATION OF PROPERTY SR-247S TO C-242,TR TO PROCEED 1 MILE TO MCGUIRE TERRACE,  
TR GO 1/2 MILE PROPERTY ON R.  
TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 135650.00  
HEATED FLOOR AREA 2713.00 TOTAL AREA 4216.00 HEIGHT 32.40 STORIES 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 10'12 FLOOR CONC  
LAND USE & ZONING A-3 MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U. 0 FLOOD ZONE XPS DEVELOPMENT PERMIT NO.

PARCEL ID 19-4S-16-03065-001 SUBDIVISION  
LOT BLOCK PHASE UNIT TOTAL ACRES 5.00

000001269 CRC005950  
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
WAIVER 06-01056 BLK JTH N  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

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

Check # or Cash 1196

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 \$ 680.00 CERTIFICATION FEE \$ 21.08 SURCHARGE FEE \$ 21.08  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$  
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 797.16  
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 Warranty Deed** Made the 2nd day of November A. D. 2006 by

**Regina G. Timmons**, a married person,  
hereinafter called the grantor, to

**Travis L. Timmons**, a single person,  
whose postoffice address is 255 NW Carol Pl, Lake City, FL 32055  
hereinafter called the grantee:

(Wherever used herein the terms "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 \$ 10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, releases, conveys and confirms unto the grantee, all that certain land situate in **Columbia** County, Florida, viz:

Begin at the SW corner of the NE 1/4 of the SE 1/4 of Section 19, Township 4 South, Range 16 East, Columbia County, Florida and run S 03°05'15"E, 189.38 feet; thence N 88°37'52"E, 460.00 feet; thence N 02°53'30"W, 190.00 feet; thence N88°33'05"E, 175.40 feet; thence N01°58'25"W, 189.93 feet; thence S 88°33'05"W, 688.07 feet; thence S 01°58'25"E, 189.93 feet; thence N88°33'05"E, 52.04 feet to the Point of Beginning, containing 5.00 ares, more or less.

**Together** with all the tenements, hereditaments and appurtenances thereto belonging or in any-wise 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, 2005.

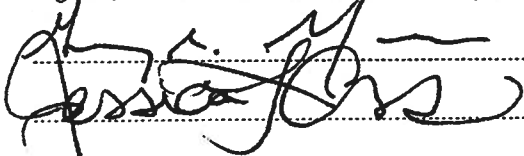
Inst:2006026182 Date:11/03/2006 Time:11:21

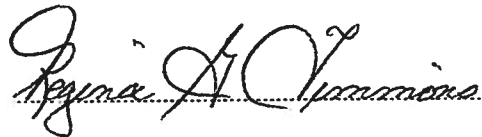
Doc Stamp-Deed : 0.70

S. J. DC, P. Dewitt Cason, Columbia County B:1101 P:154

**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:





L.S.


L.S.

STATE OF Florida  
COUNTY OF Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared

**Regina G. Timmons**

to me known to be the person described in and who executed the foregoing instrument and she acknowledged before me that she executed the same.

NOTARY PUBLIC-STATE OF FLORIDA  
 **Michael J. Carr**  
Commission # DD519389  
Expires: FEB. 19, 2010  
Bonded Through Atlantic Bonding Co., Inc.  
WITNESS my hand and official seal in the County and State last aforesaid this 2 day of November, A. D. 2006

This Instrument prepared by: **Regina Timmons**

Address **641 NW Harris Lake Dr., Lake City, FL 32055**

*Attachment A*  
**This Warranty Deed** Made the 2nd day of November A. D. 2006 by

Regina G. Timmons, a married person,  
hereinafter called the grantor, to

Travis L. Timmons, a single person,  
whose postoffice address is 255 NW Carol Pl, Lake City, FL 32055  
hereinafter called the grantee:

(Wherever used herein the terms "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 \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Begin at the SW corner of the NE 1/4 of the SE 1/4 of Section 19, Township 4 South, Range 16 East, Columbia County, Florida and run S 03°05'15"E, 189.38 feet; thence N 88°37'52"E, 460.00 feet; thence N 02°53'30"W, 190.00 feet; thence N88°33'05"E, 175.40 feet; thence N01°58'25"W, 189.93 feet; thence S 88°33'05"W, 688.07 feet; thence S 01°58'25"E, 189.93 feet; thence N88°33'05"E, 52.04 feet to the Point of Beginning, containing 5.00 ares, more or less.

Inst:2006027964 Date:11/28/2006 Time:10:56  
*S. P.* DC, P. DeWitt Cason, Columbia County B:1103 P:250

**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, 2005.

Inst:2006026182 Date:11/03/2006 Time:11:21  
Doc Stamp-Deed : 0.70  
*S. P.* DC, P. DeWitt Cason, Columbia County B:1101 P:154

**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:

*[Signature]*

*[Signature]*

L.S.

L.S.

STATE OF Florida  
COUNTY OF Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared

Regina G. Timmons

to me known to be the person described in and who executed the foregoing instrument and she acknowledged before me that she executed the same.

NOTARY PUBLIC-STATE OF FLORIDA  
Michael J. Carr  
Commission # DD519389  
Expires: FEB. 19, 2010  
Bonded Through Atlantic Bonding Co., Inc.  
WITNESS my hand and official seal in the County and State last aforesaid this 2 day of November, A. D. 2006

This Instrument prepared by: Regina Timmons  
Address 641 NW Harris Lake Dr., Lake City, FL 32055



# ELK

## ROOFING PRODUCTS SPECIFICATIONS – TUSCALOOSA, AL



**PRESTIQUE®  
HIGH DEFINITION®**



**RAISED PROFILE®**

### Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size	13¼" x 39"	50-year limited warranty period:
Exposure	5"	5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 110 mph***
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	11	

### Prestique I *High Definition*

Product size	13¼" x 39"	40-year limited warranty period:
Exposure	5"	5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 90 mph***
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	14	

### Prestique *High Definition*

Product size	13¼" x 38"	30-year limited warranty period:
Exposure	5"	5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph.
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

### Raised Profile

Product size	13¼" x 38"	30-year limited warranty period:
Exposure	5"	5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 70 mph.
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

### HIP AND RIDGE SHINGLES

#### Seal-A-Ridge® w/FLX™

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

#### Vented RidgeCrest™ w/FLX™

Size: 13" x 13¼"  
Exposure: 9¼"  
Pieces/Box: 26  
Coverage: 5 boxes =  
100 linear feet

### Elk Starter Strip

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

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

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

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

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

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

\*See actual limited warranty for conditions and limitations.

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

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

## SPECIFICATIONS

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

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

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

**Materials:** Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) 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

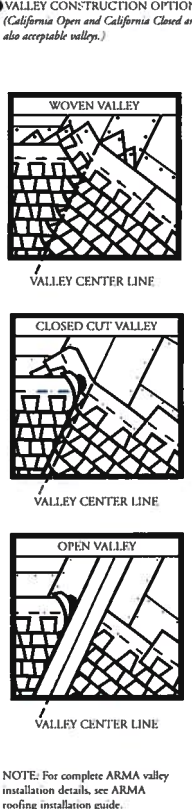
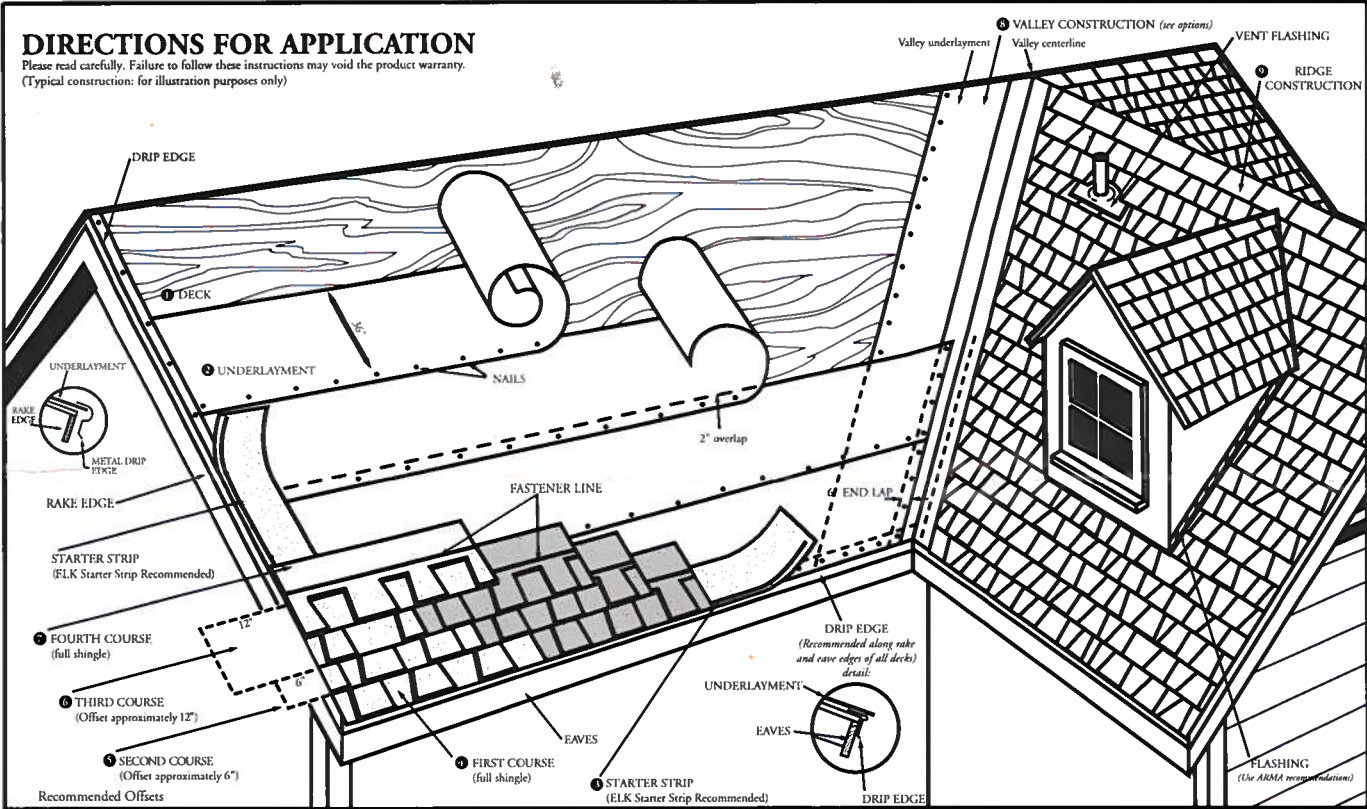
**CORPORATE HEADQUARTERS:**  
800.354.7732

**PLANT LOCATION:**  
800.945.5545

**ELK**  
The Premium Choice®  
www.elkcorp.com

SS00T 06/04

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



DIRECTIONS FOR APPLICATION

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

1 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.

2 UNDERLAYMENT

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

For low slope(2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 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 Technical Services Department for application specifications over other decks and other slopes.

3 STARTER SHINGLE COURSE

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

4 FIRST COURSE

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

5 SECOND COURSE

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

6 THIRD COURSE

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

7 FOURTH COURSE

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

FIFTH AND SUCCEEDING COURSES.

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

8 VALLEY CONSTRUCTION

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

9 RIDGE CONSTRUCTION

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

FASTENERS

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

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

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

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

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

MANSARD APPLICATIONS

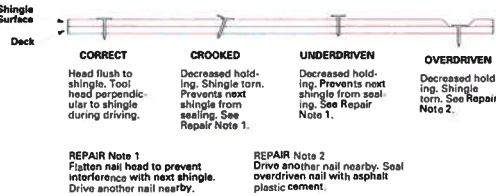
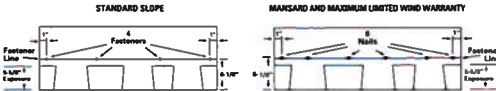
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only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

LIMITED WIND WARRANTY

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

HELP STOP BLOW-OFFS AND CALL-BACKS

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



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified. All Prestique and Raised Profile shingles have a 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.



## Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0611-57 Date Received 11/28/06 By LH Permit # 0269/2527  
 Application Approved by - Zoning Official BLK Date 05.12.06 Plans Examiner OK JTH Date 11-4-06  
 Flood Zone X-1-Silver Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3  
 Comments Section 14.9 Special Family Lot Permit  
1/5H

Applicants Name CHARLES TIMMONS Phone 386-752-0375 Fax: 754-0194  
 Address 641 NW HARRIS LAKE DR., LAKE CITY, FL 32055  
 Owners Name TRAVIS L. TIMMONS Phone 386-623-4954  
 911 Address 323 SW Mc GUIRE TER, LAKE CITY, FL 32024  
 Contractors Name CHARLES TIMMONS Phone 386-752-0375  
 Address 641 NW HARRIS LAKE DR., LAKE CITY, FL 32055  
 Fee Simple Owner Name & Address TRAVIS L. TIMMONS  
 Bonding Co. Name & Address N/A  
 Architect/Engineer Name & Address WILLIAM MYERS, POB 1513, LAKE CITY, FL 32056  
NICHOLAS P. GETSLER, 1758 NW BROWN RD, LAKE CITY, FL 32055  
 Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number 19-4S-16-03065 (PARENT PARCEL) Estimated Cost of Construction 180,000.00

Subdivision Name N/A Lot -001 Block  Unit  Phase

Driving Directions 247 S TO 242, TURN RIGHT ON 242 DRIVE @ 1 MILE TO  
Mc GUIRE TER, TURN RIGHT, DRIVE @ 1/2 MILE TO SITE ON RIGHT

Type of Construction FRAME Number of Existing Dwellings on Property 0  
 Total Acreage 5 Lot Size  Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive  
 Actual Distance of Structure from Property Lines - Front 100' + Side 100' + Side 100' + Rear 100' +  
 Total Building Height 32' 4" Number of Stories 1 Heated Floor Area 2713 SF Roof Pitch 10/12  
TOTAL 4,216

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.

Travis L. Timmons  
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

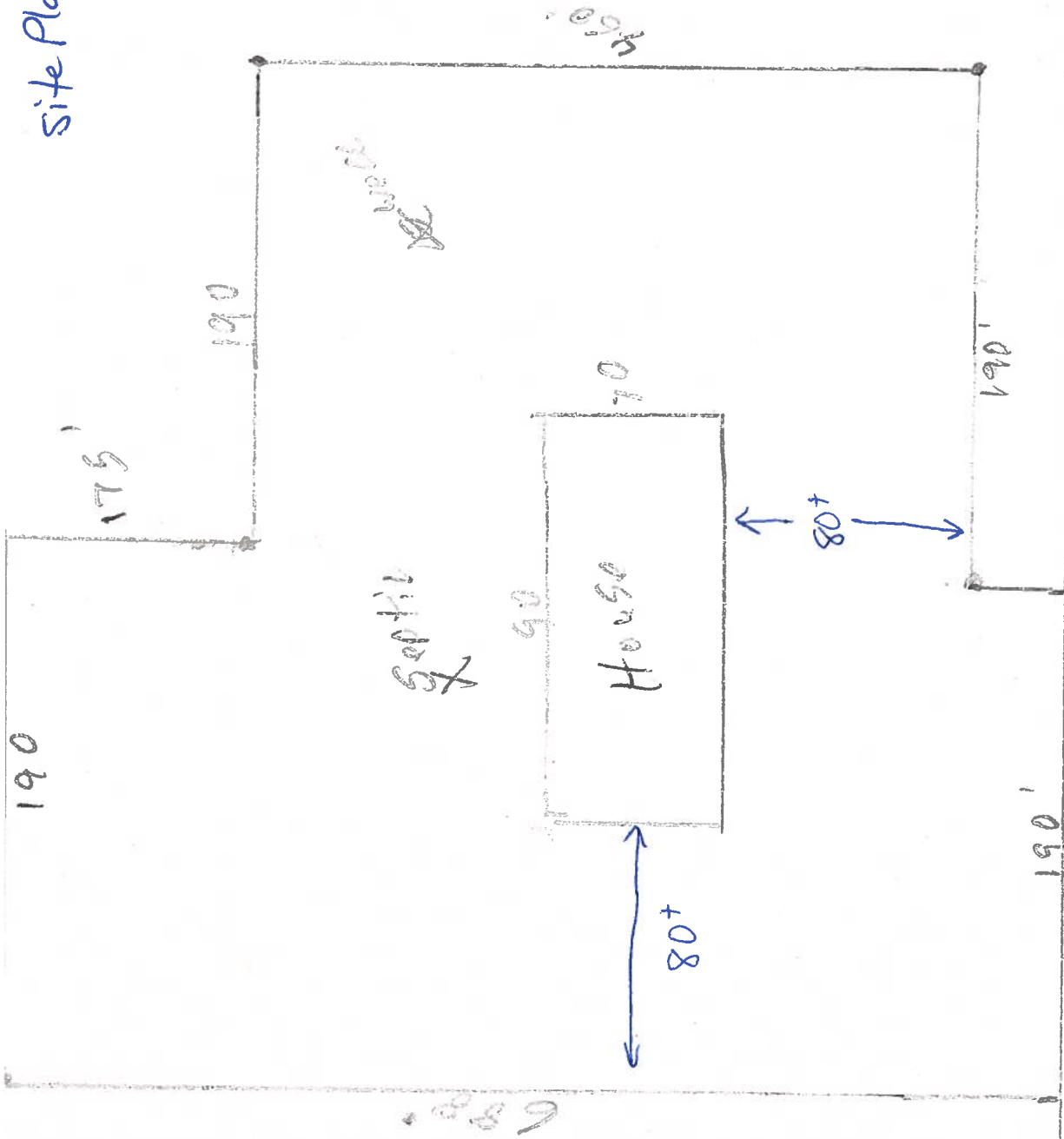
Sworn to (or affirmed) and subscribed before me  
 this 28th day of NOVEMBER 2006.  
 Personally known  or Produced Identification

Charles Timmons  
 Contractor Signature  
 Contractors License Number CRC 005950  
 Competency Card Number   
 NOTARY STAMP/SEAL

Regina G. Timmons  
 Notary Signature  
 Regina G Timmons  
 My Commission DD228678  
 Expires October 29, 2007

JW ADVISED CHARLES ON 12.5.06

Site Plan



McGuire Rd

Thavis Timmons

**COLUMBIA COUNTY, FLORIDA  
LAND DEVELOPMENT REGULATION ADMINISTRATOR  
SPECIAL FAMILY LOT PERMIT APPLICATION**

A special family lot permit may be issued by the Land Development Regulation Administrator on land zoned Agricultural or Environmentally Sensitive Area within these land development regulations, for the purpose of conveying a lot or parcel to an individual who is the parent, grandparent, sibling, child or adopted child or grandchild of the person who conveyed the parcel to said individual, not to exceed two (2) dwelling units per one (1) acre and the lot complies with all other conditions from permitting development as set forth in these land development regulations. This provision is intended to promote the perpetuation of the family homestead in rural areas by making it possible for family members to reside on lots, which exceed maximum density for such areas, provided that the lot complies with the following conditions for permitting:

1. The division of lots shall be by recorded separate deed and meet all other applicable land development regulations; and
2. The lot split or subdivision is for the establishment of a homestead of that relative and the lot so conveyed is at least one-half (1/2) acre in size and the remaining lot is at least one-half (1/2) acre in size; and
3. The family lot permit shall only be issued once for each relative of the parent tract owner. However, for purposes of this provision, if a lot is permitted under this provision to a daughter, for example, and was to be returned to the ownership of the owner of the parent tract, then the original use of this provision to provide the lot to the daughter shall not be counted as one of the one permitted per relative.
4. The lot complies with all other conditions for permitting and development as set forth in these land development regulations.

1. Name of Recipient Relative (Applicant) TRAVIS L. TIMMONS

Address 255 NW CAROL PL City LAKE CITY Zip Code 32055  
Phone (386) 623-4954

2. Name of Title Holder(s) REGINA TIMMONS

Address 641 NW HARRIS LAKE DR. City LAKE CITY Zip Code 32055  
Phone (386) 752-0375

3. Recipient's Relationship to Title Holder SON

4. Size of Property 5 ACRES OUT OF 77 ACRES

5. Tax Parcel ID# 19-45-16-03065 (Attach a Copy of the Deed)

**No permit will be issued unless the deed is properly recorded in the Clerk of the Courts Office.**

I (we) hereby certify that all of the above statements and the statements contained in any papers or plans submitted herewith are true and correct to the best of my (our) knowledge and belief.

Applicants Name (Print or Type)

Travis L. Timmons 11/28/06  
Applicant Signature Date

**OFFICIAL USE**

Current Land Use Classification A-3 Current Zoning District A-3

☒ Approved ☐ Denial = Reason \_\_\_\_\_

05.12.06

NOTICE OF COMMENCEMENT FORM  
COLUMBIA COUNTY, FLORIDA

\*\*\*THIS DOCUMENT MUST BE RECORDED AT THE COUNTY  
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.\*\*\*

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.

Tax Parcel ID Number 19-45-16-03065

1. Description of property: (legal description of the property and street address or 911 address)

SEE ATTACHED LEGAL DESCRIPTION

323 SW MCGUIRE TER, LAKE CITY, FL 32024

2. General description of improvement: SINGLE FAMILY RESIDENCE

3. Owner Name & Address TRAVIS L. TIMMONS, 255 NW CAROL PL., LAKE CITY, FL 32055 Interest in Property \_\_\_\_\_

4. Name & Address of Fee Simple Owner (if other than owner): \_\_\_\_\_

5. Contractor Name CHARLES TIMMONS Phone Number 386-752-0375  
Address 641 NW HARRIS LAKE DR., LAKE CITY, FL 32055

6. Surety Holders Name N/A Phone Number \_\_\_\_\_

Address \_\_\_\_\_

Amount of Bond \_\_\_\_\_

Inst:2006027964 Date:11/28/2006 Time:10:56

2.7

DC, P. DeWitt Cason, Columbia County B:1103 P:249

7. Lender Name N/A

Address \_\_\_\_\_

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name CHARLES TIMMONS Phone Number 386-752-0375

Address 641 NW HARRIS LAKE DR., LAKE CITY, FL 32055

9. In addition to himself/herself the owner designates \_\_\_\_\_ of

\_\_\_\_\_ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee \_\_\_\_\_

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) \_\_\_\_\_

**NOTICE AS PER CHAPTER 713, Florida Statutes:**

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Travis L. Timmons  
Signature of Owner

Sworn to (or affirmed) and subscribed before  
day of NOVEMBER 28, 2006

NOTARY STAMP/SEAL



Regina G Timmons  
My Commission D0228678  
Expires October 29, 2007

Regina G. Timmons  
Signature of Notary

# HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL  
OWNERS

PHONE (904) 752-1854  
FAX (904) 755-7022  
~~XXXXXXXXXXXXXXXXXXXX~~  
LAKE CITY, FLORIDA 32055  
904 NW Main Blvd.

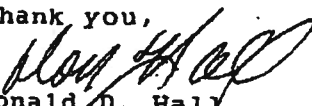
June 12, 2002

## NOTICE TO ALL CONTRACTORS

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

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

Thank you,

  
Donald D. Hall  
DDH/jk

4" well  
1 hp submersible pump  
PC 244 diaphragm tank (110L)(81gal)  
1 1/4" drop pipe

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name: **Travis Timmons & Tere'sa Sapp**  
Address: **McGuire Road**  
City, State: **Lake City, FL 32025-**  
Owner:  
Climate Zone: **North**

Builder:  
Permitting Office: *Columbia*  
Permit Number:  
Jurisdiction Number: *221000*

- |   |                     |     |  |                   |     |
|---|---------------------|-----|--|-------------------|-----|
| 1. New construction or existing   | New                 | ___ | 12. Cooling systems                    |                   |     |
| 2. Single family or multi-family  | Single family       | ___ | a. Central Unit                        | Cap: 40.0 kBtu/hr | ___ |
| 3. Number of units, if multi-family   | 1                   | ___ |  | SEER: 11.00       | ___ |
| 4. Number of Bedrooms   | 4                   | ___ | b. Central Unit                        | Cap: 39.0 kBtu/hr | ___ |
| 5. Is this a worst case?  | No                  | ___ |  | SEER: 11.00       | ___ |
| 6. Conditioned floor area (ft²)   | 2713 ft²            | ___ | c. N/A                                 |                   | ___ |
| 7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default) |                     | ___ | 13. Heating systems                    |                   |     |
| a. U-factor:  | Description Area    | ___ | a. Electric Heat Pump                  | Cap: 40.0 kBtu/hr | ___ |
| (or Single or Double DEFAULT) 7a(Sngle Default) 398.8 ft²                       |                     | ___ |  | HSPF: 6.80        | ___ |
| b. SHGC:  |                     | ___ | b. Electric Heat Pump                  | Cap: 39.0 kBtu/hr | ___ |
| (or Clear or Tint DEFAULT) 7b. (Clear) 398.8 ft²                                |                     | ___ |  | HSPF: 6.80        | ___ |
| 8. Floor types  |                     | ___ | c. N/A                                 |                   | ___ |
| a. Slab-On-Grade Edge Insulation  | R=0.0, 318.0(p) ft  | ___ | 14. Hot water systems                  |                   |     |
| b. N/A  |                     | ___ | a. Electric Resistance                 | Cap: 50.0 gallons | ___ |
| c. N/A  |                     | ___ |  | EF: 0.90          | ___ |
| 9. Wall types   |                     | ___ | b. Electric Resistance                 | Cap: 50.0 gallons | ___ |
| a. Frame, Wood, Exterior  | R=13.0, 3183.2 ft²  | ___ |  | EF: 0.90          | ___ |
| b. Frame, Wood, Adjacent  | R=13.0, 438.0 ft²   | ___ | c. Conservation credits                |                   | ___ |
| c. N/A  |                     | ___ | (HR-Heat recovery, Solar               |                   |     |
| d. N/A  |                     | ___ | DHP-Dedicated heat pump)               |                   |     |
| e. N/A  |                     | ___ | 15. HVAC credits                       | PT, ___           |     |
| 10. Ceiling types   |                     | ___ | (CF-Ceiling fan, CV-Cross ventilation, |                   |     |
| a. Under Attic  | R=30.0, 2800.0 ft²  | ___ | HF-Whole house fan,                    |                   |     |
| b. N/A  |                     | ___ | PT-Programmable Thermostat,            |                   |     |
| c. N/A  |                     | ___ | MZ-C-Multizone cooling,                |                   |     |
| 11. Ducts(Leak Free)  |                     | ___ | MZ-H-Multizone heating)                |                   |     |
| a. Sup: Unc. Ret: Unc. AH: Interior   | Sup. R=6.0, 50.0 ft | ___ |  |                   |     |
| b. Sup: Unc. Ret: Unc. AH: Garage   | Sup. R=6.0, 50.0 ft | ___ |  |                   |     |

Glass/Floor Area: 0.15

Total as-built points: 39669

Total base points: 42740

## PASS

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

PREPARED BY: *Travis Timmons*

DATE: 10-17-06

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: \_\_\_\_\_



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

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

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

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	2713.0	20.04	9786.3	Single, Clear	W	1.5	14.0	9.0	43.84	1.00	392.6
				Single, Clear	SW	10.5	14.0	14.0	45.75	0.55	353.2
				Single, Clear	W	10.5	14.0	28.0	43.84	0.60	739.5
				Single, Clear	NW	12.5	14.0	17.8	29.42	0.66	344.3
				Single, Clear	W	11.0	14.0	70.0	43.84	0.59	1807.6
				Single, Clear	SW	10.5	14.0	20.0	45.75	0.55	504.5
				Single, Clear	W	1.5	14.0	6.0	43.84	1.00	261.7
				Single, Clear	W	1.5	12.0	36.0	43.84	0.99	1565.3
				Single, Clear	N	1.5	12.0	36.0	21.73	0.99	775.3
				Single, Clear	N	1.5	12.0	4.0	21.73	0.99	86.1
				Single, Clear	N	1.5	12.0	6.0	21.73	0.99	129.2
				Single, Clear	SE	1.5	12.0	8.0	48.65	0.99	387.0
				Single, Clear	E	1.5	12.0	8.0	47.92	0.99	379.9
				Single, Clear	SE	1.5	12.0	8.0	48.65	0.99	387.0
				Single, Clear	E	1.5	14.0	108.0	47.92	0.99	5145.9
				Single, Clear	E	7.5	15.0	20.0	47.92	0.73	695.3
				As-Built Total:			398.8			13954.5	
WALL TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	438.0	0.70	306.6	Frame, Wood, Exterior	13.0			3183.2	1.50	4774.8	
Exterior	3183.2	1.70	5411.4	Frame, Wood, Adjacent	13.0			438.0	0.60	262.8	
Base Total: 3621.2 5718.0				As-Built Total:			3621.2			5037.6	
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	18.0	1.60	28.8	Exterior Insulated				20.0	4.10	82.0	
Exterior	20.0	4.10	82.0	Adjacent Insulated				18.0	1.60	28.8	
Base Total: 38.0 110.8				As-Built Total:			38.0			110.8	
CEILING TYPES Area X BSPM = Points				Type	R-Value			Area X SPM X SCM = Points			
Under Attic	2713.0	1.73	4693.5	Under Attic	30.0			2800.0	1.73 X 1.00	4844.0	
Base Total: 2713.0 4693.5				As-Built Total:			2800.0			4844.0	
FLOOR TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Slab	318.0(p)	-37.0	-11766.0	Slab-On-Grade Edge Insulation	0.0			318.0(p)	-41.20	-13101.6	
Raised	0.0	0.00	0.0								
Base Total: -11766.0				As-Built Total:			318.0			-13101.6	

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

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

PERMIT #:

BASE				AS-BUILT						
INFILTRATION    Area X BSPM = Points				Area X    SPM    =    Points						
2713.0    10.21    27699.7				2713.0    10.21    27699.7						
Summer Base Points: 36242.4				Summer As-Built Points: 38545.0						
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (System - Points)	X System Multiplier (DM x DSM x AHU)	X Credit Multiplier	= Cooling Points
36242.4		0.4266	15461.0	(sys 1: Central Unit 40000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 38545                    0.51    (1.09 x 1.000 x 0.91)    0.310                    0.950                    5988.2 (sys 2: Central Unit 39000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 38545                    0.49    (1.09 x 1.000 x 1.00)    0.310                    0.950                    5838.5 38545.0                1.00                    1.041                0.310                0.950                11826.7						

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

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

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	2713.0	12.74	6221.5	Single, Clear	W	1.5	14.0	9.0	28.84	1.00	260.0
				Single, Clear	SW	10.5	14.0	14.0	24.09	1.44	486.3
				Single, Clear	W	10.5	14.0	28.0	28.84	1.13	916.3
				Single, Clear	NW	12.5	14.0	17.8	32.93	1.02	599.7
				Single, Clear	W	11.0	14.0	70.0	28.84	1.14	2302.5
				Single, Clear	SW	10.5	14.0	20.0	24.09	1.44	694.7
				Single, Clear	W	1.5	14.0	6.0	28.84	1.00	173.3
				Single, Clear	W	1.5	12.0	36.0	28.84	1.00	1040.8
				Single, Clear	N	1.5	12.0	36.0	33.22	1.00	1195.7
				Single, Clear	N	1.5	12.0	4.0	33.22	1.00	132.9
				Single, Clear	N	1.5	12.0	6.0	33.22	1.00	199.3
				Single, Clear	SE	1.5	12.0	8.0	21.82	1.02	177.5
				Single, Clear	E	1.5	12.0	8.0	26.41	1.01	213.0
				Single, Clear	SE	1.5	12.0	8.0	21.82	1.02	177.5
				Single, Clear	E	1.5	14.0	108.0	26.41	1.01	2871.2
				Single, Clear	E	7.5	15.0	20.0	26.41	1.12	591.5
				<b>As-Built Total:</b>		398.8			12032.1		
<b>WALL TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	438.0	3.60	1576.8	Frame, Wood, Exterior	13.0		3183.2	3.40		10822.9	
Exterior	3183.2	3.70	11777.8	Frame, Wood, Adjacent	13.0		438.0	3.30		1445.4	
<b>Base Total:</b> 3621.2 13354.6				<b>As-Built Total:</b>		3621.2			12268.3		
<b>DOOR TYPES</b> Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	18.0	8.00	144.0	Exterior Insulated			20.0	8.40		168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated			18.0	8.00		144.0	
<b>Base Total:</b> 38.0 312.0				<b>As-Built Total:</b>		38.0			312.0		
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	2713.0	2.05	5561.6	Under Attic	30.0		2800.0	2.05 X 1.00		5740.0	
<b>Base Total:</b> 2713.0 5561.6				<b>As-Built Total:</b>		2800.0			5740.0		
<b>FLOOR TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	318.0(p)	8.9	2830.2	Slab-On-Grade Edge Insulation	0.0		318.0(p)	18.80		5978.4	
Raised	0.0	0.00	0.0								
<b>Base Total:</b> 2830.2				<b>As-Built Total:</b>		318.0			5978.4		

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

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

PERMIT #:

BASE				AS-BUILT					
INFILTRATION    Area X BWPM = Points				Area X    WPM    =    Points					
2713.0        -0.59        -1600.7				2713.0        -0.59        -1600.7					
Winter Base Points:		26679.3		Winter As-Built Points:		34730.1			
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points
26679.3	0.6274	16738.6		(sys 1: Electric Heat Pump 40000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				34730.1	0.506	(1.069 x 1.000 x 0.93)	0.501	0.950	8642.0
			(sys 2: Electric Heat Pump 39000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
			34730.1	0.494	(1.069 x 1.000 x 1.00)	0.501	0.950	8425.9	
			34730.1	1.00	1.032	0.501	0.950	17067.9	

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

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

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit Multiplier	= Total
4		2635.00	10540.0	50.0	0.90	4	0.50	2693.56	5387.1
				50.0	0.90	4	0.50	2693.56	5387.1
				As-Built Total:					10774.2

**CODE COMPLIANCE STATUS**

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
15461	16739	10540	42740	11827	17068	10774	39669

**PASS**

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

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

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

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

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

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

Tested sealed ducts must be certified in this house.

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 84.3**

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

, McGuire Road, Lake City, FL, 32025-

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 40.0 kBtu/hr ___ SEER: 11.00 ___
3. Number of units, if multi-family	1	___	b. Central Unit	Cap: 39.0 kBtu/hr ___ SEER: 11.00 ___
4. Number of Bedrooms	4	___	c. N/A	___
5. Is this a worst case?	No	___		
6. Conditioned floor area (ft <sup>2</sup> )	2713 ft <sup>2</sup>	___	13. Heating systems	
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)			a. Electric Heat Pump	Cap: 40.0 kBtu/hr ___ HSPF: 6.80 ___
a. U-factor:	Description Area		b. Electric Heat Pump	Cap: 39.0 kBtu/hr ___ HSPF: 6.80 ___
(or Single or Double DEFAULT)	7a(Sngle Default) 398.8 ft <sup>2</sup>	___	c. N/A	___
b. SHGC:				
(or Clear or Tint DEFAULT)	7b. (Clear) 398.8 ft <sup>2</sup>	___	14. Hot water systems	
8. Floor types			a. Electric Resistance	Cap: 50.0 gallons ___ EF: 0.90 ___
a. Slab-On-Grade Edge Insulation	R=0.0, 318.0(p) ft	___	b. Electric Resistance	Cap: 50.0 gallons ___ EF: 0.90 ___
b. N/A		___	c. Conservation credits	
c. N/A		___	(HR-Heat recovery, Solar	
9. Wall types			DHP-Dedicated heat pump)	
a. Frame, Wood, Exterior	R=13.0, 3183.2 ft <sup>2</sup>	___	15. HVAC credits	PT, ___
b. Frame, Wood, Adjacent	R=13.0, 438.0 ft <sup>2</sup>	___	(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		___	HF-Whole house fan,	
d. N/A		___	PT-Programmable Thermostat,	
e. N/A		___	MZ-C-Multizone cooling,	
10. Ceiling types			MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 2800.0 ft <sup>2</sup>	___		
b. N/A		___		
c. N/A		___		
11. Ducts(Leak Free)				
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft	___		
b. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft	___		

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

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

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



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

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

# Energy Code Compliance

## Duct System Performance Report

<b>Project Name:</b> Travis Timmons & Tere'sa Sapp <b>Address:</b> McGuire Road <b>City, State:</b> Lake City, FL 32025- <b>Owner:</b> <b>Climate Zone:</b> North	<b>Builder:</b> <b>Permitting Office:</b> <b>Permit Number:</b> <b>Jurisdiction Number:</b>
---	--

### Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	<b>Total House Duct System Leakage</b>	Sum lines 1-4 _____  Divide by _____ (Total Conditioned Floor Area)  = _____ (Q <sub>n,tot</sub> )  <input type="checkbox"/> Receive credit if Q <sub>n,tot</sub> ≤ 0.03	Sum lines 1-4 _____  Divide by _____ (Total Conditioned Floor Area)  = _____ (Q <sub>n,out</sub> )  <input type="checkbox"/> Receive credit if Q <sub>n,out</sub> ≤ 0.03 AND Q <sub>n,tot</sub> ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

**Signature:** \_\_\_\_\_  
**Printed Name:** \_\_\_\_\_  
**Florida Rater Certification #:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



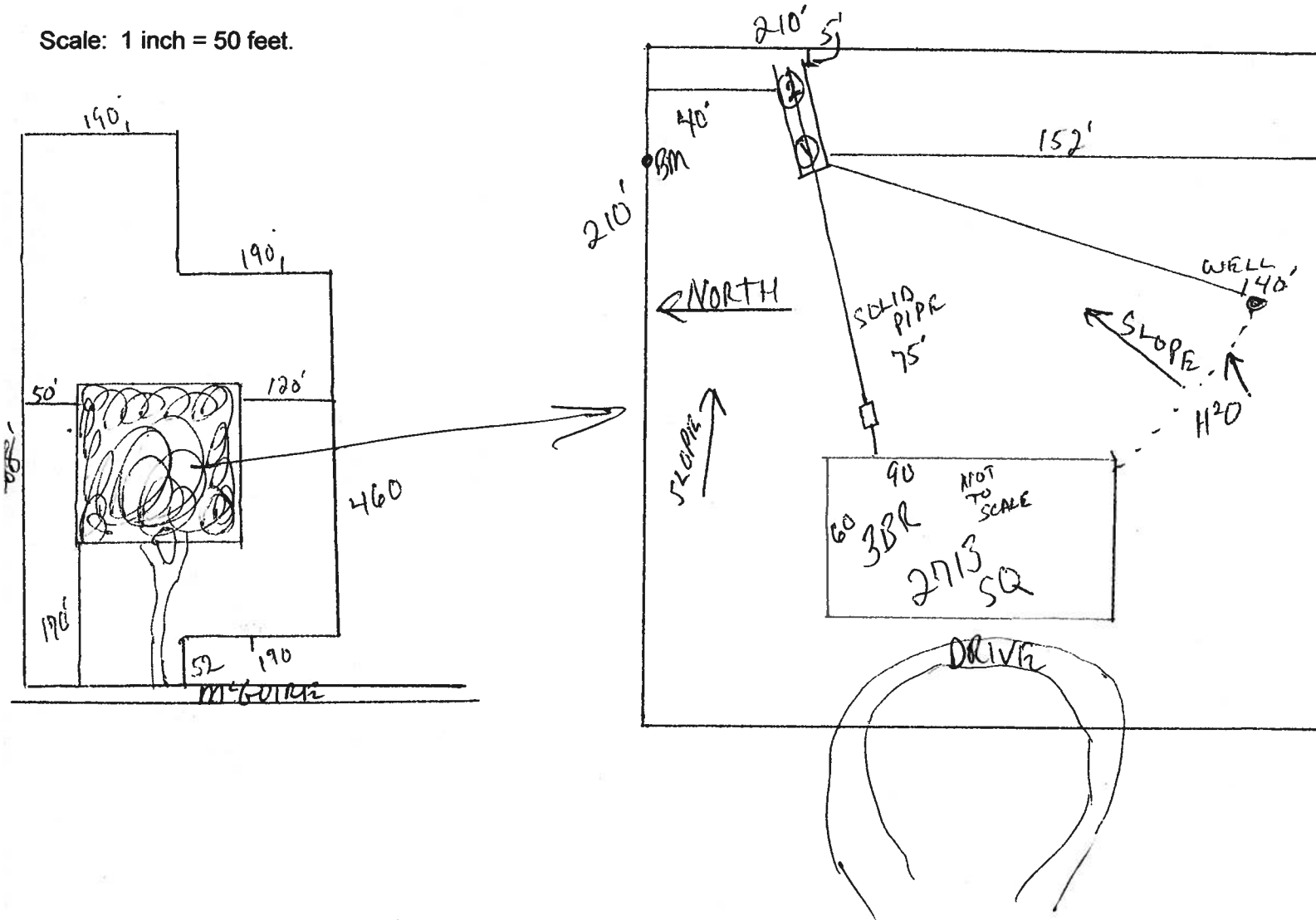
**BUILDING OFFICIAL:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_

STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-1056

----- PART II - SITEPLAN -----

Scale: 1 inch = 50 feet.



Notes: 1 of 5 Acres

Site Plan submitted by: Rock D F

MASTER CONTRACTOR

Plan Approved ☒

Not Approved ☐

Date 12/5/06

By M. O. H.

Columbia

County Health Department

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

*ATTN WEE aie:*

**Columbia County Building Department  
Culvert Waiver**

**Culvert Waiver No.  
000001269**

DATE: 12/05/2006

BUILDING PERMIT NO. 25277

APPLICANT CHARLES TIMMONS

PHONE 386.752.0375

ADDRESS 641 NW HARRIS LAKE DRIVE

LAKE CITY

FL 32055

OWNER TRAVIS L. TIMMONS

PHONE 386.623.4954

ADDRESS 323 SW MCGUIRE TERRACE

LAKE CITY

FL 32024

CONTRACTOR CHARLES TIMMONS

PHONE 386.623.4954

LOCATION OF PROPERTY SR-247-S TO C-242, TR PROCEED 1 MILE TO MCGUIRE TERRACE, TR

& IT'S A 1/2 MILE ON THE R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT \_\_\_\_\_

PARCEL ID # 19-4S-16-03065-001

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

SIGNATURE: *Charles Timmons*

A SEPARATE CHECK IS REQUIRED

MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

**PUBLIC WORKS DEPARTMENT USE ONLY**

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

✓ APPROVED

NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: \_\_\_\_\_

SIGNED: *Perry Little*

DATE: 12-7-06

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

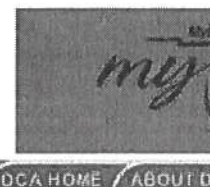
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DEC 06 2006

By: \_\_\_\_\_

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





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► COMMUNITY PLANNING

► HOUSING & COMMUNITY DEVELOPMENT

► EMERGENCY MANAGEMENT

► OFFICE OF THE SECRETARY

FL #

FL6142

Application Type

New

Code Version

2004

Application Status

Approved

Comments

Archived



*Doors*

Product Manufacturer

Plastpro Inc. / Nanya Plastics Corp.

Address/Phone/Email

9 Peach Tree Hill Road  
Livingston, NJ 07039  
(440) 969-9773 ext 16  
RonOConnell@plastproinc.com

Authorized Signature

Ron O'Connell  
RonOConnell@plastproinc.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Exterior Doors

Subcategory

Swinging Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Professional Engineer

☒ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name  
who developed the Evaluation Report

Wendell W. Haney

Florida License

PE-54158

Quality Assurance Entity  
Validated By

National Accreditation and Management  
L.F. Schmidt, P.E.

Certificate of Independence

FL6142 R0 COI Certificate of Independence

Referenced Standard and Year (of Standard)

**Standard**  
101/I.S. 2  
Accepted Engineering Practice  
ASTM E1300

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 02/28/2006  
Date Validated 03/01/2006  
Date Pending FBC Approval 03/07/2006  
Date Approved 03/21/2006

Summary of Products		
FL #	Model, Number or Name	Description
6142.1	a. Distinction Series	Up to 3'0 x 6'8 Single (X) Glazed Fiberglass Door Ut Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +55.0 /-60.0 <b>Other:</b> See INST 6142.1 and EVAL 6142.1 for any additional size and use limitations.		<b>Installation Instruction</b> <u>FL6142 R0 II INST 614</u> Verified By: Wendell W. I <b>Evaluation Reports</b> <u>FL6142 R0 AE EVAL 61</u>
6142.2	b. Distinction Series	Up to 3'0 x 6'8 Single with Inswing or Outswing - Gl Utilizing the Snap Lite Fra
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +48.0 /-50.0		<b>Installation Instruction</b> <u>FL6142 R0 II INST 614</u> Verified By: Wendell W. I <b>Evaluation Reports</b> <u>FL6142 R0 AE EVAL 61</u>

<b>Other:</b> See INST 6142.2 and EVAL 6142.2 for any additional size and use limitations.		
6142.3	c. Distinction Series	Up to 3'0 x 6'8 Single with Inswing or Outswing - Glazing Utilizing the Snap Lite Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +48.0 /-50.0 <b>Other:</b> See INST 6142.3 and EVAL 6142.3 for any additional size and use limitations.		<b>Installation Instruction</b> FL6142_R0_II_6142.3_INST Verified By: Wendell W. H <b>Evaluation Reports</b> FL6142_R0_AE_EVAL_6142.3
6142.4	d. Distinction Series	Up to 6'0 x 6'8 Double (X) - Glazed Fiberglass Doors Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +47.0 /-47.0 <b>Other:</b> See INST 6142.4 and EVAL 6142.4 for any additional size and use limitations.		<b>Installation Instruction</b> FL6142_R0_II_INST_6142.4 Verified By: Wendell W. H <b>Evaluation Reports</b> FL6142_R0_AE_EVAL_6142.4
6142.5	e. Distinction Series	Up to 6'0 x 6'8 Double with Inswing or Outswing - Glazing Utilizing the Snap Lite Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +47.0 /-47.0 <b>Other:</b> See INST 6142.5 and EVAL 6142.5 for any additional size and use limitations.		<b>Installation Instruction</b> FL6142_R0_II_6142.5_INST Verified By: Wendell W. H <b>Evaluation Reports</b> FL6142_R0_AE_EVAL_6142.5
6142.6	f. Distinction Series	Up to 3'0 x 6'8 Single (X) Glazed Fiberglass Door Utilizing the Lip Screw Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +50.0 /-50.0 <b>Other:</b> See INST 6142.6 and EVAL 6142.6 for any additional size and use limitations.		<b>Installation Instruction</b> FL6142_R0_II_INST_6142.6 Verified By: Wendell W. H <b>Evaluation Reports</b> FL6142_R0_AE_EVAL_6142.6
6142.7	g. Distinction Series	Up to 3'0 x 6'8 Single with Inswing or Outswing - Glazing Utilizing the Lip Lite Screw Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No		<b>Installation Instruction</b> FL6142_R0_II_INST_6142.7

<b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: +50.0 /-50.0</b> <b>Other: See INST 6142.7 and EVAL 6142.7 for any additional size and use limitations.</b>		<b>Verified By: Wendell W. I</b> <b>Evaluation Reports</b> <u>FL6142 R0 AE EVAL 614</u>
6142.8	h. Distinction Series	Up to 3'0 x 6'8 Single with Inswing or Outswing - Glazing Utilizing the Lip Lite Screws
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: +50.0 /-50.0</b> <b>Other: See INST 6142.8 and EVAL 6142.8 for any additional size and use limitations.</b>		<b>Installation Instruction</b> <u>FL6142 R0 II INST 614</u> <b>Verified By: Wendell W. I</b> <b>Evaluation Reports</b> <u>FL6142 R0 AE EVAL 614</u>
6142.9	i. Distinction Series	Up to 6'0 x 6'8 Double (X) - Glazed Fiberglass Door with Screw Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: +50.0 /-50.0</b> <b>Other: See INST 6142.9 and EVAL 6142.9 for any additional size and use limitations.</b>		<b>Installation Instruction</b> <u>FL6142 R0 II INST 614</u> <b>Verified By: Wendell W. I</b> <b>Evaluation Reports</b> <u>FL6142 R0 AE EVAL 614</u>
6142.10	j. Distinction Series	Up to 6'0 x 6'8 Double with Inswing or Outswing - Glazing Utilizing the Lip Lite Screws
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: +50.0 /-50.0</b> <b>Other: See INST 6142.10 and EVAL 6142.10 for any additional size and use limitations.</b>		<b>Installation Instruction</b> <u>FL6142 R0 II INST 614</u> <b>Verified By: Wendell W. I</b> <b>Evaluation Reports</b> <u>FL6142 R0 AE EVAL 614</u>

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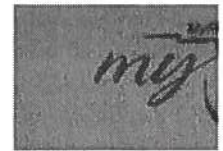
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Tallahassee, Florida 32399-2100

(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

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**Product Approval Accepts:**

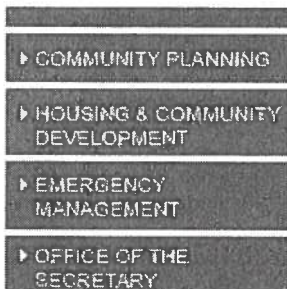




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FL #	FL1378-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	<b>JORDAN WINDOWS and DOORS</b>
Address/Phone/Email	4661 BURBANK ROAD MEMPHIS, TN 38118 (901) 866-2638 MIKE.DODDS@JORDANCOMPANY.COM
Authorized Signature	MIKE DODDS MIKE.DODDS@JORDANCOMPANY.COM
Technical Representative	MICHAEL DODDS
Address/Phone/Email	4661 BURBANK ROAD MEMPHIS, TN 38118 (901) 363-2121 MIKE.DODDS@JORDANCOMPANY.COM
Quality Assurance Representative	
Address/Phone/Email	
Category	Windows
Subcategory	Single Hung
Compliance Method	Certification Mark or Listing
Certification Agency	American Architectural Manufacturers

Referenced Standard and Year (of Standard)

**Standard**

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

Equivalence of Product Standards Certified By

Sections from the Code

1707.4.2.1

Product Approval Method

Method 1 Option A

Date Submitted

09/16/2005

Date Validated

09/16/2005

Date Pending FBC Approval

09/23/2005

Date Approved

10/11/2005

**Summary of Products**

FL #	Model, Number or Name	Description
1378.1	2112	FIN FRAME H-LC35=48"X
<b>Limits of Use (See Other)</b> <b>Approved for use in HVHZ:</b> <b>Approved for use outside HVHZ:</b> <b>Impact Resistant:</b> <b>Design Pressure: +/-</b> <b>Other:</b> Per attached manufacturers installation insructions. Not for use HVHZ		<b>Certification Agency Ce</b> <b>Installation Instruction</b> PTID 1378 R1 I FL1378 <a href="#">Windows.pdf</a> Verified By:
1378.2	2312	FIN FRAME H-LC50=48"X
<b>Limits of Use (See Other)</b> <b>Approved for use in HVHZ:</b> <b>Approved for use outside HVHZ:</b> <b>Impact Resistant:</b> <b>Design Pressure: +/-</b> <b>Other:</b> Per attached manufacturers installation insructions. Not for use HVHZ		<b>Certification Agency Ce</b> <b>Installation Instruction</b> Verified By:
1378.3	8500	FIN FRAME H-R40=44"X8
<b>Limits of Use (See Other)</b> <b>Approved for use in HVHZ:</b> <b>Approved for use outside HVHZ:</b> <b>Impact Resistant:</b> <b>Design Pressure: +/-</b> <b>Other:</b> Per attached manufacturers installation insructions. Not for use HVHZ		<b>Certification Agency Ce</b> <b>Installation Instruction</b> Verified By:

1378.4	8600	FIN FRAME H-R50=44"X7
<b>Limits of Use (See Other)</b> <b>Approved for use in HVHZ:</b> <b>Approved for use outside HVHZ:</b> <b>Impact Resistant:</b> <b>Design Pressure: +/-</b> <b>Other:</b> Per attached manufacturers installation insructions. Not for use HVHZ		<b>Certification Agency Ce</b> <b>Installation Instruction</b> Verified By:
1378.5	8600	FIN FRAME H-R55=36"X8
<b>Limits of Use (See Other)</b> <b>Approved for use in HVHZ:</b> <b>Approved for use outside HVHZ:</b> <b>Impact Resistant:</b> <b>Design Pressure: +/-</b> <b>Other:</b> Per attached manufacturers installation insructions. Not for use HVHZ		<b>Certification Agency Ce</b> <b>Installation Instruction</b> Verified By:

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**Florida Building Code Online**  
**Codes and Standards**

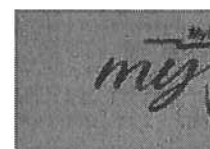
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(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

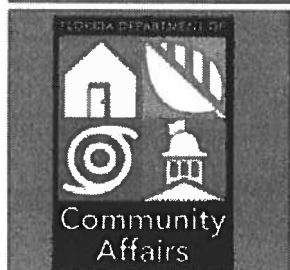
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**Product Approval Accepts:**





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[HOUSING & COMMUNITY DEVELOPMENT](#)
[EMERGENCY MANAGEMENT](#)
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FL # FL6184

Application Type New

Code Version 2004

Application Status Approved

Comments

Archived ☐

Product Manufacturer Plastpro Inc. / Nanya Plastics Corp.

Address/Phone/Email 9 Peach Tree Hill Road  
Livingston, NJ 07039  
(440) 969-9773 ext 16  
RonOConnell@plastproinc.com

Authorized Signature Ron O'Connell  
RonOConnell@plastproinc.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category Exterior Doors

Subcategory Swinging Exterior Door Assemblies

Compliance Method Evaluation Report from a Florida Registered Professional Engineer

☒ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report Wendell W. Haney

Florida License PE-54158

Quality Assurance Entity                      National Accreditation and Management  
Validated By                                      L.F. Schmidt, P.E.

Certificate of Independence                      FL6184 R0 COI Certificate of Independence

Referenced Standard and Year (of Standard)                      **Standard**  
101/I.S. 2  
Accepted Engineering Practice  
ASTM E1300  
ASTM E1886  
ASTM E1996  
ASTM E330

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method                      Method 1 Option D

Date Submitted                                      02/26/2006  
Date Validated                                      02/28/2006  
Date Pending FBC Approval                      03/07/2006  
Date Approved                                      03/22/2006

<b>Summary of Products</b>		
<b>FL #</b>	<b>Model, Number or Name</b>	<b>Description</b>
6184.1	a. Distinction Series	Up to 3'0 x 6'8 Opaque Si Outswing Fiberglass Door
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +65.0 /-70.0 <b>Other:</b> See INST 6184.1 and EVAL 6184.1 for any additional size and use limitations.		<b>Installation Instruction</b> <u>FL6184 R0 II INST 6184</u> Verified By: Wendell W. I <b>Evaluation Reports</b> <u>FL6184 R0 AE EVAL 6184</u>
6184.2	b. Distinction Series	Up to 3'0 x 6'8 Opaque Fi with Sidelite (XO or OX) T Installed Utilizing the Sna
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes		<b>Installation Instruction</b> <u>FL6184 R0 II INST 6184</u> Verified By: Wendell W. I

<b>Impact Resistant: Yes</b> <b>Design Pressure: +47.0 /-47.0</b> <b>Other:</b> See INST 6184.1 sheet 1 General Note 3 regarding sidelite protection and EVAL 6184.1 for any additional size and use limitations.		<b>Evaluation Reports</b> FL6184 R0 AE EVAL 618
6184.3	c. Distinction Series	Up to 3'0 x 6'8 Opaque Fi with Sidelite (XO or OX) T Installed Utilizing the Lip
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: Yes</b> <b>Design Pressure: +50.0 /-50.0</b> <b>Other:</b> See INST 6184.3 sheet 1 General Note 3 regarding sidelite protection and EVAL 6184.3 for any additional size and use limitations.		<b>Installation Instruction</b> FL6184 R0 II INST 618 Verified By: Wendell W. I <b>Evaluation Reports</b> FL6184 R0 AE EVAL 618
6184.4	d. Distinction Series	Up to 3'0 x 6'8 Opaque Fi with Sidelites (OXO) The Installed Utilizing the Sna
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: Yes</b> <b>Design Pressure: +47.0 /-47.0</b> <b>Other:</b> See INST 6184.4 sheet 1 General Note 3 regarding sidelite protection and EVAL 6184.4 for any additional size and use limitations.		<b>Installation Instruction</b> FL6184 R0 II INST 618 Verified By: Wendell W. I <b>Evaluation Reports</b> FL6184 R0 AE EVAL 618
6184.5	e. Distinction Series	Up to 3'0 x 6'8 Opaque Fi with Sidelites (OXO) The Installed Utilizing the Lip
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: Yes</b> <b>Design Pressure: +50.0 /-50.0</b> <b>Other:</b> See INST 6184.5 sheet 1 General Note 3 regarding sidelite protection and EVAL 6184.5 for any additional size and use limitations.		<b>Installation Instruction</b> FL6184 R0 II INST 618 Verified By: Wendell W. I <b>Evaluation Reports</b> FL6184 R0 AE EVAL 618
6184.6	f. Distinction Series	Up to 6'0 x 6'8 Opaque D Outswing Fiberglass Door
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: Yes</b> <b>Design Pressure: +50.0 /-50.0</b> <b>Other:</b> See INST 6184.6 and EVAL 6184.6 for any additional size and use limitations.		<b>Installation Instruction</b> FL6184 R0 II INST 618 Verified By: Wendell W. I <b>Evaluation Reports</b> FL6184 R0 AE EVAL 618
6184.7	g. Distinction Series	Up to 6'0 x 6'8 Opaque Fi

		with Sidelites (OXXO) The Installed Utilizing the Sna
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> +50.0 /-50.0 <b>Other:</b> See INST 6184.7 sheet 1 General Note 3 regarding sidelite protection and EVAL 6184.7 for any additional size and use limitations.		<b>Installation Instruction</b> FL6184 R0 II INST 618: Verified By: Wendell W. f <b>Evaluation Reports</b> FL6184 R0 AE EVAL 61:
6184.8	h. Distinction Series	Up to 6'0 x 6'8 Opaque Fi with Sidelites (OXXO) The Installed Utilizing the Lip I
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> +50.0 /-50.0 <b>Other:</b> See INST 6184.8 sheet 1 General Note 3 regarding sidelite protection and EVAL 6184.8 for any additional size and use limitations.		<b>Installation Instruction</b> FL6184 R0 II INST 618: Verified By: Wendell W. f <b>Evaluation Reports</b> FL6184 R0 AE EVAL 61:

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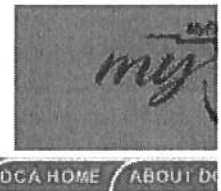
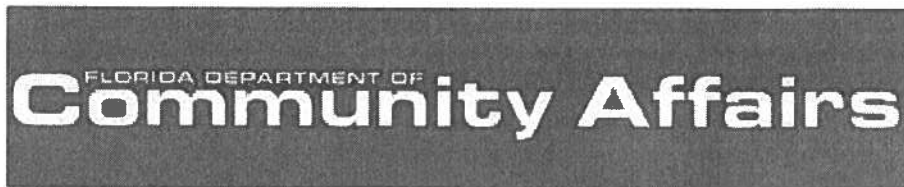
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**Product Approval Accepts:**





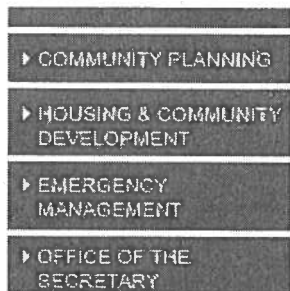
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## Product Approval

USER: Public User

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**Application Detail**



FL #	FL6229
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Plastpro Inc. / Nanya Plastics Corp.
Address/Phone/Email	9 Peach Tree Hill Road Livingston, NJ 07039 (440) 969-9773 ext 16 RonOConnell@plastproinc.com
Authorized Signature	Ron O'Connell RonOConnell@plastproinc.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Regis Licensed Florida Professional Engineer <input checked="" type="checkbox"/> Evaluation Report - Hardcopy Rece
Florida Engineer or Architect Name	Wendell W. Haney
who developed the Evaluation Report	
Florida License	PE-54158

Quality Assurance Entity                      National Accreditation and Management  
Validated By                                      L.F. Schmidt, P.E.

Certificate of Independence                      FL6229 R0 COI Certificate of Independence

Referenced Standard and Year (of  
Standard)                      **Standard**  
101/I.S. 2  
101/I.S. 2 - NAFS  
Accepted engineering Practice  
ASTM E1300

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method                      Method 1 Option D

Date Submitted                                      03/07/2006

Date Validated                                      03/07/2006

Date Pending FBC Approval                      03/12/2006

Date Approved                                      03/22/2006

<b>Summary of Products</b>		
<b>FL #</b>	<b>Model, Number or Name</b>	<b>Description</b>
6229.1	a. Distinction Series	Up to 3'0 x 8'0 Single (X) Fiberglass Door Utilizing t
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: +47.0 /-47.0</b> <b>Other: See INST 6229.1 and EVAL 6229.1 for any additional size and use limitations.</b>		<b>Installation Instruction</b> <u>FL6229 R0 II INST 6229.1</u> Verified By: Wendell W. t <b>Evaluation Reports</b> <u>FL6229 R0 AE EVAL 6229.1</u>
6229.2	b. Distinction Series	Up to 3'0 x 8'0 Single with Inswing or Outswing - Gl Utilizing the Snap Lite Fra
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: +47.0 /-47.0</b>		<b>Installation Instruction</b> <u>FL6229 R0 II INST 6229.1</u> Verified By: Wendell W. t <b>Evaluation Reports</b> <u>FL6229 R0 AE EVAL 6229.1</u>

<b>Other:</b> See INST 6229.2 and EVAL 6229.2 for any additional size and use limitations.		
6229.3	c. Distinction Series	Up to 3'0 x 8'0 Single with Inswing or Outswing - Glazed Utilizing the Snap Lite Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +47.0 /-47.0 <b>Other:</b> See INST 6142.3 and EVAL 6142.3 for any additional size and use limitations.		<b>Installation Instruction</b> FL6229 R0 II INST 6229 Verified By: Wendell W. H <b>Evaluation Reports</b> FL6229 R0 AE EVAL 6229
6229.4	d. Distinction Series	Up to 6'0 x 6'8 Double (X) - Glazed Fiberglass Doors Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +47.0 /-47.0 <b>Other:</b> See INST 6229.4 and EVAL 6229.4 for any additional size and use limitations.		<b>Installation Instruction</b> FL6229 R0 II INST 6229 Verified By: Wendell W. H <b>Evaluation Reports</b> FL6229 R0 AE EVAL 6229
6229.5	e. Distinction Series	Up to 6'0 x 6'8 Double with Inswing or Outswing - Glazed Utilizing the Snap Lite Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +47.0 /-47.0 <b>Other:</b> See INST 6229.5 and EVAL 6229.5 for any additional size and use limitations.		<b>Installation Instruction</b> FL6229 R0 II INST 6229 Verified By: Wendell W. H <b>Evaluation Reports</b> FL6229 R0 AE EVAL 6229
6229.6	f. Distinction Series	Up to 3'0 x 8'0 Single (X) Glazed Fiberglass Door Utilizing Screw Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +50.0 /-50.0 <b>Other:</b> See INST 6229.6 and EVAL 6229.6 for any additional size and use limitations.		<b>Installation Instruction</b> FL6229 R0 II INST 6229 Verified By: Wendell W. H <b>Evaluation Reports</b> FL6229 R0 AE EVAL 6229
6229.7	g. Distinction Series	Up to 3'0 x 8'0 Single with Inswing or Outswing - Glazed Utilizing the Lip Lite Screw Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No		<b>Installation Instruction</b> FL6229 R0 II INST 6229

<b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +50.0 /-50.0 <b>Other:</b> See INST 6229.7 and EVAL 6229.7 for any additional size and use limitations.		Verified By: Wendell W. I <b>Evaluation Reports</b> <u>FL6229 R0 AE EVAL 622</u>
6229.8	h. Distinction Series	Up to 3'0 x 8'0 Single with Inswing or Outswing - Glazing Utilizing the Lip Lite Screws
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +50.0 /-50.0 <b>Other:</b> See INST 6229.8 and EVAL 6229.8 for any additional size and use limitations.		<b>Installation Instruction</b> <u>FL6229 R0 II INST 622</u> Verified By: Wendell W. I <b>Evaluation Reports</b> <u>FL6229 R0 AE EVAL 622</u>
6229.9	i. Distinction Series	Up to 6'0 x 8'0 Double (X) - Glazed Fiberglass Door with Lip Lite Screw Frame
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +37.5 /-37.5 <b>Other:</b> See INST 6229.9 and EVAL 6229.9 for any additional size and use limitations.		<b>Installation Instruction</b> <u>FL6229 R0 II INST 622</u> Verified By: Wendell W. I <b>Evaluation Reports</b> <u>FL6229 R0 AE EVAL 622</u>
6229.10	j. Distinction Series	Up to 6'0 x 8'0 Double with Inswing or Outswing - Glazing Utilizing the Lip Lite Screws
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +37.5 /-37.5 <b>Other:</b> See INST 6229.10 and EVAL 6229.10 for any additional size and use limitations.		<b>Installation Instruction</b> <u>FL6229 R0 II INST 622</u> Verified By: Wendell W. I <b>Evaluation Reports</b> <u>FL6229 R0 AE EVAL 622</u>

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# Residential System Sizing Calculation

## Summary

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

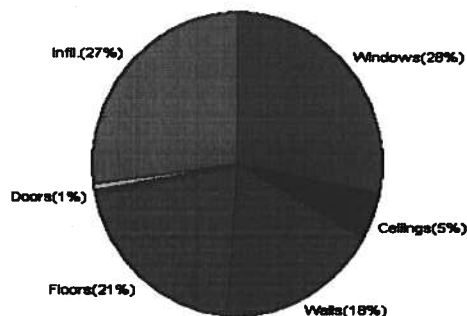
10/17/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
<b>Total heating load calculation</b>	<b>65890 Btuh</b>	<b>Total cooling load calculation</b>	<b>73467 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.9 79000	Sensible (SHR = 0.75)	102.2 59250
Heat Pump + Auxiliary(0.0kW)	119.9 79000	Latent	127.6 19750
		Total (Electric Heat Pump)	107.5 79000

## WINTER CALCULATIONS

Winter Heating Load (for 2713 sqft)

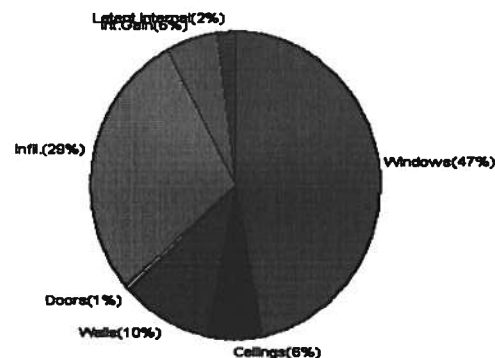
Load component	Load
Window total 399 sqft	18740 Btuh
Wall total 3621 sqft	11892 Btuh
Door total 38 sqft	492 Btuh
Ceiling total 2800 sqft	3299 Btuh
Floor total 318 sqft	13884 Btuh
Infiltration 434 cfm	17583 Btuh
Duct loss	0 Btuh
<b>Subtotal</b>	<b>65890 Btuh</b>
Ventilation 0 cfm	0 Btuh
<b>TOTAL HEAT LOSS</b>	<b>65890 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 2713 sqft)

Load component	Load
Window total 399 sqft	34367 Btuh
Wall total 3621 sqft	7300 Btuh
Door total 38 sqft	372 Btuh
Ceiling total 2800 sqft	4637 Btuh
Floor total	0 Btuh
Infiltration 380 cfm	7069 Btuh
Internal gain	4240 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
<b>Total sensible gain</b>	<b>57986 Btuh</b>
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	13881 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1600 Btuh
<b>Total latent gain</b>	<b>15481 Btuh</b>
<b>TOTAL HEAT GAIN</b>	<b>73467 Btuh</b>



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE:

*Travis Timmons*  
10.17.06

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

10/17/2006

### Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	1, Clear, Metal, 1.27	W	9.0		47.0	423 Btuh
2	1, Clear, Metal, 1.27	SW	14.0		47.0	658 Btuh
3	1, Clear, Metal, 1.27	W	28.0		47.0	1316 Btuh
4	1, Clear, Metal, 1.27	NW	17.8		47.0	836 Btuh
5	1, Clear, Metal, 1.27	W	70.0		47.0	3289 Btuh
6	1, Clear, Metal, 1.27	SW	20.0		47.0	940 Btuh
7	1, Clear, Metal, 1.27	W	6.0		47.0	282 Btuh
8	1, Clear, Metal, 1.27	W	36.0		47.0	1692 Btuh
9	1, Clear, Metal, 1.27	N	36.0		47.0	1692 Btuh
10	1, Clear, Metal, 1.27	N	4.0		47.0	188 Btuh
11	1, Clear, Metal, 1.27	N	6.0		47.0	282 Btuh
12	1, Clear, Metal, 1.27	SE	8.0		47.0	376 Btuh
13	1, Clear, Metal, 1.27	E	8.0		47.0	376 Btuh
14	1, Clear, Metal, 1.27	SE	8.0		47.0	376 Btuh
15	1, Clear, Metal, 1.27	E	108.0		47.0	5075 Btuh
16	1, Clear, Metal, 1.27	E	20.0		47.0	940 Btuh
Window Total			399(sqft)			18740 Btuh
<b>Walls</b>	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3183		3.3	10454 Btuh
2	Frame - Wood - Adj(0.09)	13.0	438		3.3	1438 Btuh
Wall Total			3621			11892 Btuh
<b>Doors</b>	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		18		12.9	233 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			38			492Btuh
<b>Ceilings</b>	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic(D/Shin)	30.0	2800		1.2	3299 Btuh
Ceiling Total			2800			3299Btuh
<b>Floors</b>	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	318.0 ft(p)		43.7	13884 Btuh
Floor Total			318			13884 Btuh
Zone Envelope Subtotal:						48307 Btuh
<b>Infiltration</b>	Type	ACH	X	Zone Volume	CFM=	
	Natural	0.80		32556	434.1	17583 Btuh
<b>Ductload</b>	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
<b>Zone #1</b>	Sensible Zone Subtotal					65890 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

10/17/2006

### WHOLE HOUSE TOTALS

	Subtotal Sensible	65890 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	65890 Btuh

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

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



For Florida residences only

# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

10/17/2006

### Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	1, Clear, Metal, 1.27	W	9.0		47.0	423 Btuh
2	1, Clear, Metal, 1.27	SW	14.0		47.0	658 Btuh
3	1, Clear, Metal, 1.27	W	28.0		47.0	1316 Btuh
4	1, Clear, Metal, 1.27	NW	17.8		47.0	836 Btuh
5	1, Clear, Metal, 1.27	W	70.0		47.0	3289 Btuh
6	1, Clear, Metal, 1.27	SW	20.0		47.0	940 Btuh
7	1, Clear, Metal, 1.27	W	6.0		47.0	282 Btuh
8	1, Clear, Metal, 1.27	W	36.0		47.0	1692 Btuh
9	1, Clear, Metal, 1.27	N	36.0		47.0	1692 Btuh
10	1, Clear, Metal, 1.27	N	4.0		47.0	188 Btuh
11	1, Clear, Metal, 1.27	N	6.0		47.0	282 Btuh
12	1, Clear, Metal, 1.27	SE	8.0		47.0	376 Btuh
13	1, Clear, Metal, 1.27	E	8.0		47.0	376 Btuh
14	1, Clear, Metal, 1.27	SE	8.0		47.0	376 Btuh
15	1, Clear, Metal, 1.27	E	108.0		47.0	5075 Btuh
16	1, Clear, Metal, 1.27	E	20.0		47.0	940 Btuh
Window Total			399(sqft)			18740 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3183		3.3	10454 Btuh
2	Frame - Wood - Adj(0.09)	13.0	438		3.3	1438 Btuh
Wall Total			3621			11892 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		18		12.9	233 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			38			492Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2800		1.2	3299 Btuh
Ceiling Total			2800			3299Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	318.0 ft(p)		43.7	13884 Btuh
Floor Total			318			13884 Btuh
	Zone Envelope Subtotal:					48307 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	32556	434.1		17583 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					65890 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

10/17/2006

### WHOLE HOUSE TOTALS

	Subtotal Sensible	65890 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	65890 Btuh

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

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



For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

10/17/2006

### Component Loads for Whole House

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	1, Clear, 1.27, None,N,N	W	1.5ft	14ft.	9.0	0.0	9.0	37	94	846	Btuh	
2	1, Clear, 1.27, None,N,N	SW	10.5f	14ft.	14.0	14.0	0.0	37	75	524	Btuh	
3	1, Clear, 1.27, None,N,N	W	10.5f	14ft.	28.0	6.9	21.1	37	94	2245	Btuh	
4	1, Clear, 1.27, None,N,N	NW	12.5f	14ft.	17.8	0.0	17.8	37	72	1286	Btuh	
5	1, Clear, 1.27, None,N,N	W	11ft.	14ft.	70.0	21.3	48.7	37	94	5378	Btuh	
6	1, Clear, 1.27, None,N,N	SW	10.5f	14ft.	20.0	20.0	0.0	37	75	749	Btuh	
7	1, Clear, 1.27, None,N,N	W	1.5ft	14ft.	6.0	0.0	6.0	37	94	564	Btuh	
8	1, Clear, 1.27, None,N,N	W	1.5ft	12ft.	36.0	0.0	36.0	37	94	3386	Btuh	
9	1, Clear, 1.27, None,N,N	N	1.5ft	12ft.	36.0	0.0	36.0	37	37	1348	Btuh	
10	1, Clear, 1.27, None,N,N	N	1.5ft	12ft.	4.0	0.0	4.0	37	37	150	Btuh	
11	1, Clear, 1.27, None,N,N	N	1.5ft	12ft.	6.0	0.0	6.0	37	37	225	Btuh	
12	1, Clear, 1.27, None,N,N	SE	1.5ft	12ft.	8.0	0.0	8.0	37	75	600	Btuh	
13	1, Clear, 1.27, None,N,N	E	1.5ft	12ft.	8.0	0.0	8.0	37	94	752	Btuh	
14	1, Clear, 1.27, None,N,N	SE	1.5ft	12ft.	8.0	0.0	8.0	37	75	600	Btuh	
15	1, Clear, 1.27, None,N,N	E	1.5ft	14ft.	108.0	0.0	108.0	37	94	10157	Btuh	
16	1, Clear, 1.27, None,N,N	E	7.5ft	15ft.	20.0	0.0	20.0	37	94	1881	Btuh	
	Excursion									3675	Btuh	
	Window Total				399 (sqft)					34367 Btuh		
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		3183.2			2.1		6640 Btuh		
2	Frame - Wood - Adj		13.0/0.09		438.0			1.5		661 Btuh		
	Wall Total				3621 (sqft)					7300 Btuh		
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Adjacent				18.0			9.8		176 Btuh		
2	Insulated - Exterior				20.0			9.8		196 Btuh		
	Door Total				38 (sqft)					372 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle		30.0		2800.0			1.7		4637 Btuh		
	Ceiling Total				2800 (sqft)					4637 Btuh		
Floors	Type		R-Value		Size			HTM		Load		
1	Slab On Grade		0.0		318 (ft(p))			0.0		0 Btuh		
	Floor Total				318.0 (sqft)					0 Btuh		
			Zone Envelope Subtotal:								46677 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural		0.70		32556			379.8		7069 Btuh		
Internal gain			Occupants		Btuh/occupant			Appliance		Load		
			8		X 230 +			2400		4240 Btuh		
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh	
			Sensible Zone Load								57986 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

10/17/2006

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>57986 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>57986 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>57986 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	13881 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>15481 Btuh</b>
	<b>TOTAL GAIN</b>	<b>73467 Btuh</b>

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



For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

10/17/2006

### Component Loads for Zone #1: Main

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	14ft.	9.0	0.0	9.0	37	94	846	Btuh
2	1, Clear, 1.27, None,N,N	SW	10.5f	14ft.	14.0	14.0	0.0	37	75	524	Btuh
3	1, Clear, 1.27, None,N,N	W	10.5f	14ft.	28.0	6.9	21.1	37	94	2245	Btuh
4	1, Clear, 1.27, None,N,N	NW	12.5f	14ft.	17.8	0.0	17.8	37	72	1286	Btuh
5	1, Clear, 1.27, None,N,N	W	11ft.	14ft.	70.0	21.3	48.7	37	94	5378	Btuh
6	1, Clear, 1.27, None,N,N	SW	10.5f	14ft.	20.0	20.0	0.0	37	75	749	Btuh
7	1, Clear, 1.27, None,N,N	W	1.5ft	14ft.	6.0	0.0	6.0	37	94	564	Btuh
8	1, Clear, 1.27, None,N,N	W	1.5ft	12ft.	36.0	0.0	36.0	37	94	3386	Btuh
9	1, Clear, 1.27, None,N,N	N	1.5ft	12ft.	36.0	0.0	36.0	37	37	1348	Btuh
10	1, Clear, 1.27, None,N,N	N	1.5ft	12ft.	4.0	0.0	4.0	37	37	150	Btuh
11	1, Clear, 1.27, None,N,N	N	1.5ft	12ft.	6.0	0.0	6.0	37	37	225	Btuh
12	1, Clear, 1.27, None,N,N	SE	1.5ft	12ft.	8.0	0.0	8.0	37	75	600	Btuh
13	1, Clear, 1.27, None,N,N	E	1.5ft	12ft.	8.0	0.0	8.0	37	94	752	Btuh
14	1, Clear, 1.27, None,N,N	SE	1.5ft	12ft.	8.0	0.0	8.0	37	75	600	Btuh
15	1, Clear, 1.27, None,N,N	E	1.5ft	14ft.	108.0	0.0	108.0	37	94	10157	Btuh
16	1, Clear, 1.27, None,N,N	E	7.5ft	15ft.	20.0	0.0	20.0	37	94	1881	Btuh
Excursion										3675	Btuh
Window Total					399 (sqft)					34367	Btuh
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09		3183.2		2.1		6640 Btuh			
2	Frame - Wood - Adj	13.0/0.09		438.0		1.5		661 Btuh			
Wall Total					3621 (sqft)				7300 Btuh		
Doors	Type			Area (sqft)		HTM		Load			
1	Insulated - Adjacent			18.0		9.8		176 Btuh			
2	Insulated - Exterior			20.0		9.8		196 Btuh			
Door Total					38 (sqft)				372 Btuh		
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load			
1	Vented Attic/DarkShingle	30.0		2800.0		1.7		4637 Btuh			
Ceiling Total					2800 (sqft)				4637 Btuh		
Floors	Type	R-Value		Size		HTM		Load			
1	Slab On Grade	0.0		318 (ft(p))		0.0		0 Btuh			
Floor Total					318.0 (sqft)				0 Btuh		
			Zone Envelope Subtotal:							46677 Btuh	
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	SensibleNatural	0.70		32556		379.8		7069 Btuh			
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	8		X 230 +		2400		4240 Btuh				
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic) DGM = 0.00							0.0 Btuh			
			Sensible Zone Load							57986 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

Code Only  
Professional Version  
Climate: North

10/17/2006

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>57986 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>57986 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>57986 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	13881 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>15481 Btuh</b>
	<b>TOTAL GAIN</b>	<b>73467 Btuh</b>

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

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

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Omt - compass orientation)



For Florida residences only

# Residential Window Diversity

## MidSummer

McGuire Road  
Lake City, FL 32025-

Project Title:  
Travis Timmons & Tere'sa Sapp

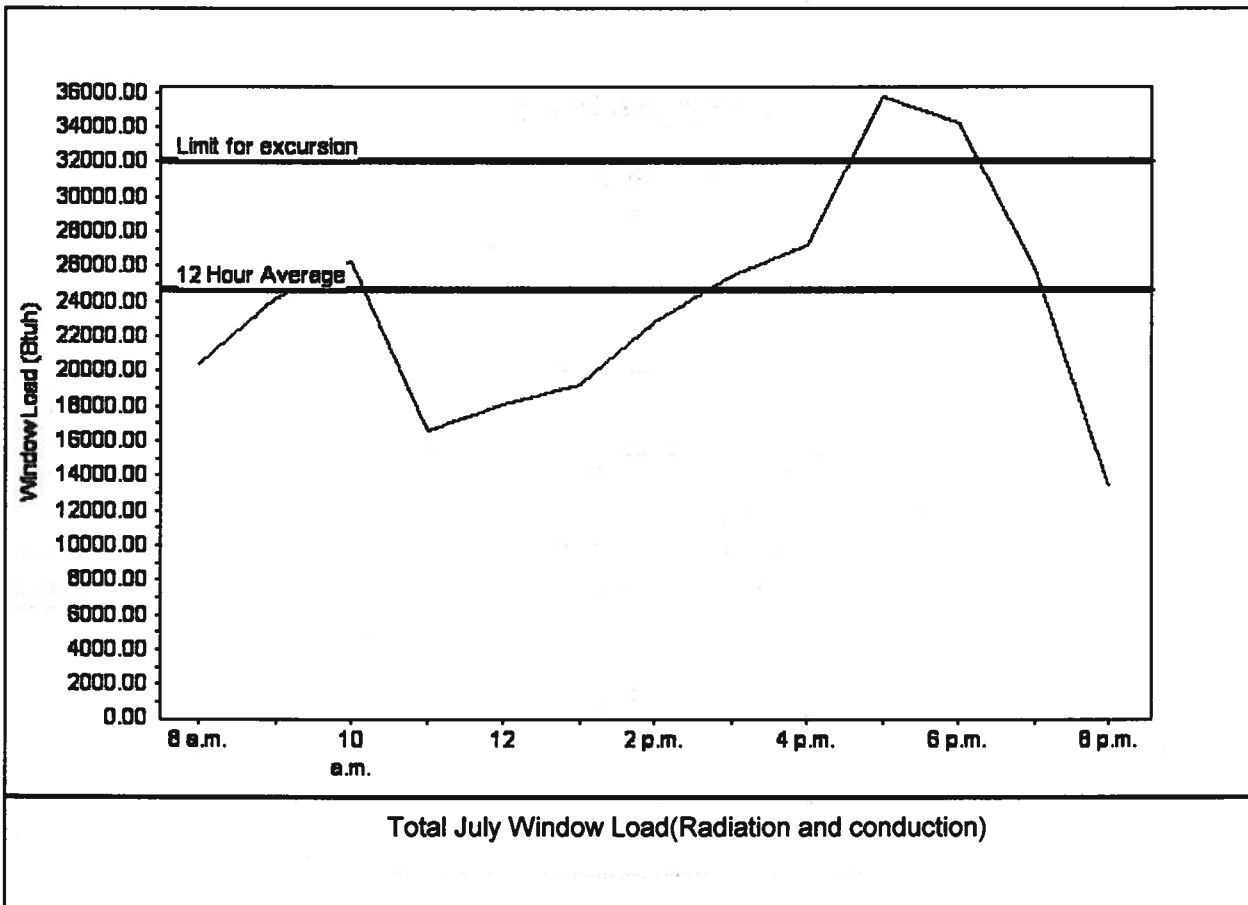
Code Only  
Professional Version  
Climate: North

10/17/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	24671 Btu
Summer setpoint	75 F	Peak window load for July	35748 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	32072 Btu
Latitude	29 North	Window excursion (July)	3675 Btuh

### WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

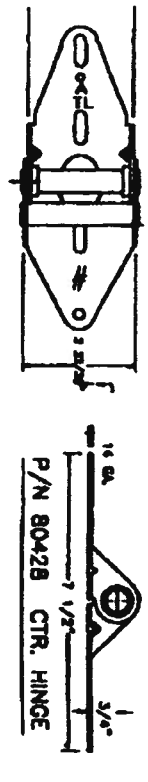
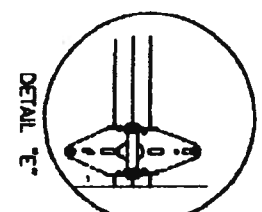
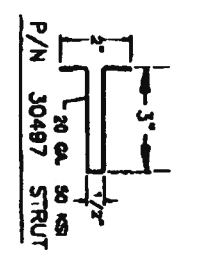
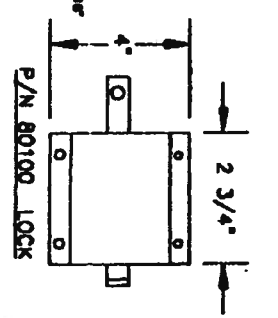
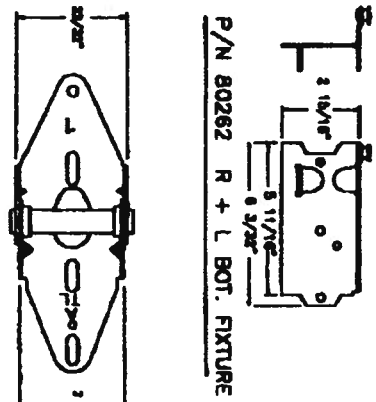
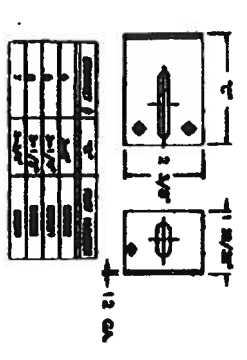
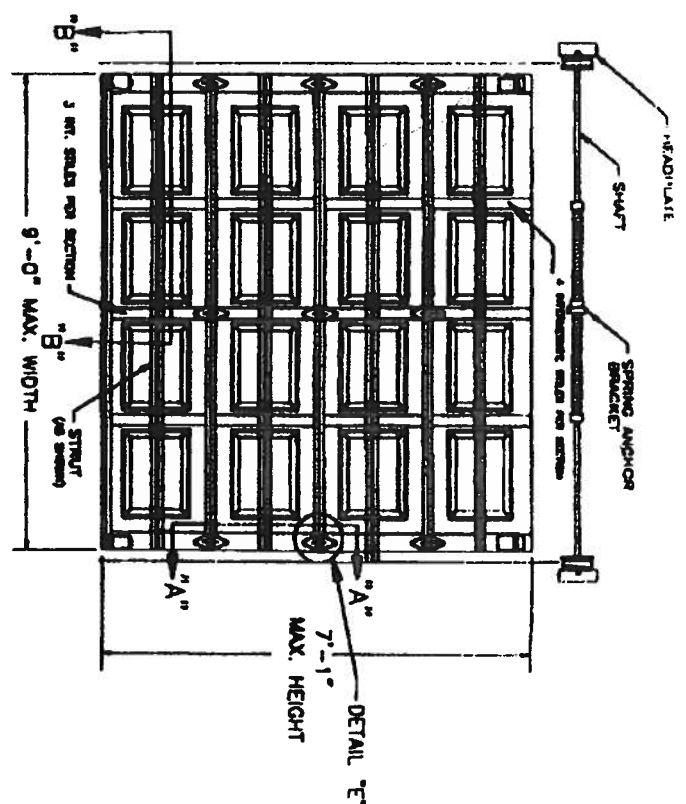
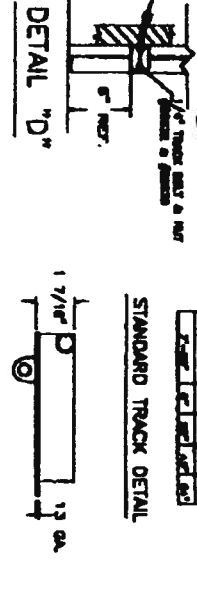
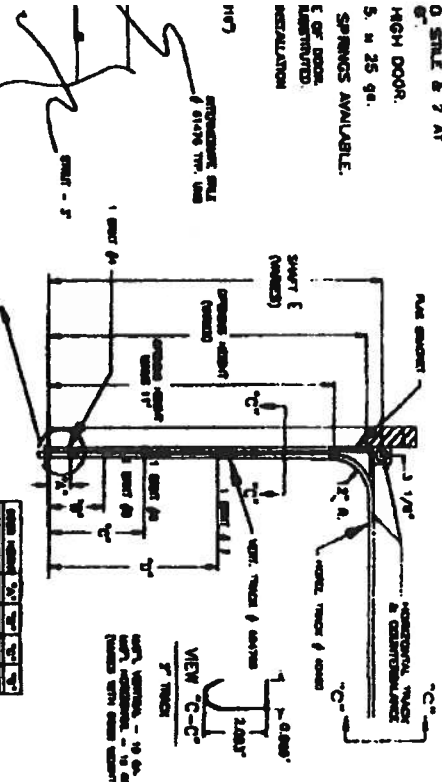
PREPARED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

EnergyGauge® FLRCPB v4.1

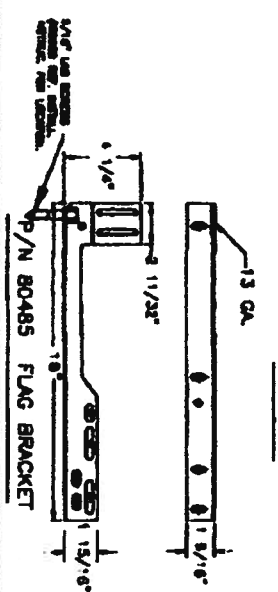


4. THREAD FORMING  
O. STILE & 2 AT  
HIGH DOOR.  
5. IN 25 GR.  
SPRINGS AVAILABLE.  
C. OF DOOR  
ELECTRIFIED  
REGISTRATION



SIZE	QTY	UNIT	PRICE	REMARKS
1	1	EA	1.00	
2	1	EA	1.00	
3	1	EA	1.00	
4	1	EA	1.00	
5	1	EA	1.00	

END HINGE



REMARKS: DOOR  
WEIGHT 250 LB  
3\"/>

NOTES ON THIS SHEET IS THE PROPERTY OF MID-AMERICA DOOR COMPANY AND IS  
TO BE RETURNED TO THE COMPANY. NO PART OF THIS SHEET IS TO BE REPRODUCED OR USED TO  
REPRODUCE THE COMPANY'S DESIGN OR TO REPRODUCE THE COMPANY'S DESIGN.

ITEM	QTY	UNIT	PRICE	REMARKS
1	1	EA	1.00	
2	1	EA	1.00	
3	1	EA	1.00	
4	1	EA	1.00	
5	1	EA	1.00	
6	1	EA	1.00	
7	1	EA	1.00	
8	1	EA	1.00	
9	1	EA	1.00	
10	1	EA	1.00	
11	1	EA	1.00	
12	1	EA	1.00	
13	1	EA	1.00	
14	1	EA	1.00	
15	1	EA	1.00	
16	1	EA	1.00	
17	1	EA	1.00	
18	1	EA	1.00	
19	1	EA	1.00	
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22	1	EA	1.00	
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37	1	EA	1.00	
38	1	EA	1.00	
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69	1	EA	1.00	
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95	1	EA	1.00	
96	1	EA	1.00	
97	1	EA	1.00	
98	1	EA	1.00	
99	1	EA	1.00	
100	1	EA	1.00	

MID-AMERICA Door Company, INC. 30 PSF DESIGN LOAD



# COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

## Addressing Maintenance

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

DATE REQUESTED: 11/13/2006 DATE ISSUED: 11/20/2006

### ENHANCED 9-1-1 ADDRESS:

323 SW MCGUIRE TER  
LAKE CITY FL 32024

### PROPERTY APPRAISER PARCEL NUMBER:

19-4S-16-03065-000

### Remarks:

PARENT PARCEL

Address Issued By: \_\_\_\_\_

Columbia County 9-1-1 Addressing / GIS Department

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

494

COLUMBIA COUNTY  
9-1-1 ADDRESSING  
APPROVED

# PRODUCT APPROVAL SPECIFICATION SHEET

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>	<i>Section Doors</i>	<i>Exterior Doors</i>	
A. SWINGING	<i>Plastic</i>		
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE/DOUBLE HUNG	<i>Fordon Windows</i>	<i>Single Hung Windows</i>	
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING	<i>Hardy Board</i>	<i>Hardy Board Siding</i>	
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES	<i>ELK</i>	<i>Rated Profile Shingles</i>	
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
<b>5. STRUCT COMPONENTS</b>			
A. WOOD CONNECTORS	<i>SIMPSON</i>	<i>Metal Connectors</i>	
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
<b>6. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
A.			

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

*Charles Thomas*  
APPLICANT SIGNATURE

*Nov 28, 06*  
DATE

**CHARLES L. TIMMONS**  
**OF**

**OCCUPANCY**

**COLUMBIA COUNTY, FLORIDA**

**Department of Building and Zoning Inspection**

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

Parcel Number 19-4S-16-03065-001

Building permit No. 000025277

Use Classification SFD/UTILITY

Fire: 16.74

Permit Holder CHARLES TIMMONS

Waste: 50.25

Owner of Building TRAVIS L. TIMMONS

Total: 66.99

Location: 323 SW MCGUIRE TERR, LAKE CITY, FL

Date: 07/02/2007

*[Signature]*

Building Inspector

**POST IN A CONSPICUOUS PLACE**  
**(Business Places Only)**



# Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: 12-24-04

#25277

323 SW Melrose

Lake City

(Address of Treatment or Lot/Block of Treatment)

City

## Florida Pest Control & Chemical Co.

[www.flapest.com](http://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. Bora-Care Termiticide application shall be applied according to EPA registered label directions as stated in the Florida Building Code Section 1816.1

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

# 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:1T20487-Z0103151314

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-365---- Travis Timmons -- , \*\*  
Truss Count: 99  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Versions 7.24, 7.31.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 11/03/2006

## Notes:

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

-Truss Design Engineer-

Arthur R. Fisher

Florida License Number: 59687

1950 Marley Drive

Haines City, FL 33844

Details: BRCLBSUB-CNBRGLK-PIGBACKA-PIGBACKB-

#	Ref	Description	Drawing#	Date
1	63835--A1		06307001	11/03/06
2	63836--A2		06307002	11/03/06
3	63837--A3		06307003	11/03/06
4	63838--A4		06307004	11/03/06
5	63839--A5		06307005	11/03/06
6	63840--A6		06307006	11/03/06
7	63841--A7		06307013	11/03/06
8	63842--A8		06307011	11/03/06
9	63843--A9		06307014	11/03/06
10	63844--A10		06307015	11/03/06
11	63845--A11		06307016	11/03/06
12	63846--A12		06307017	11/03/06
13	63847--A13		06307018	11/03/06
14	63848--A14		06307019	11/03/06
15	63849--B1		06307020	11/03/06
16	63850--B2		06307021	11/03/06
17	63851--B3		06307022	11/03/06
18	63852--B4		06307023	11/03/06
19	63853--B5		06307024	11/03/06
20	63854--B6		06307025	11/03/06
21	63855--C1		06307026	11/03/06
22	63856--C2		06307027	11/03/06
23	63857--C3G		06307028	11/03/06
24	63858--D1		06307029	11/03/06
25	63859--D2		06307030	11/03/06
26	63860--D3		06307031	11/03/06
27	63861--D4		06307032	11/03/06
28	63862--FGC		06307033	11/03/06
29	63863--HJ7		06307034	11/03/06
30	63864--EJ7		06307035	11/03/06
31	63865--J5		06307036	11/03/06
32	63866--J3		06307037	11/03/06
33	63867--J1		06307008	11/03/06
34	63868--HJ5		06307038	11/03/06
35	63869--EJ5		06307039	11/03/06
36	63870--HJ3		06307009	11/03/06
37	63871--EJ3		06307007	11/03/06
38	63872--HJC1		06307040	11/03/06

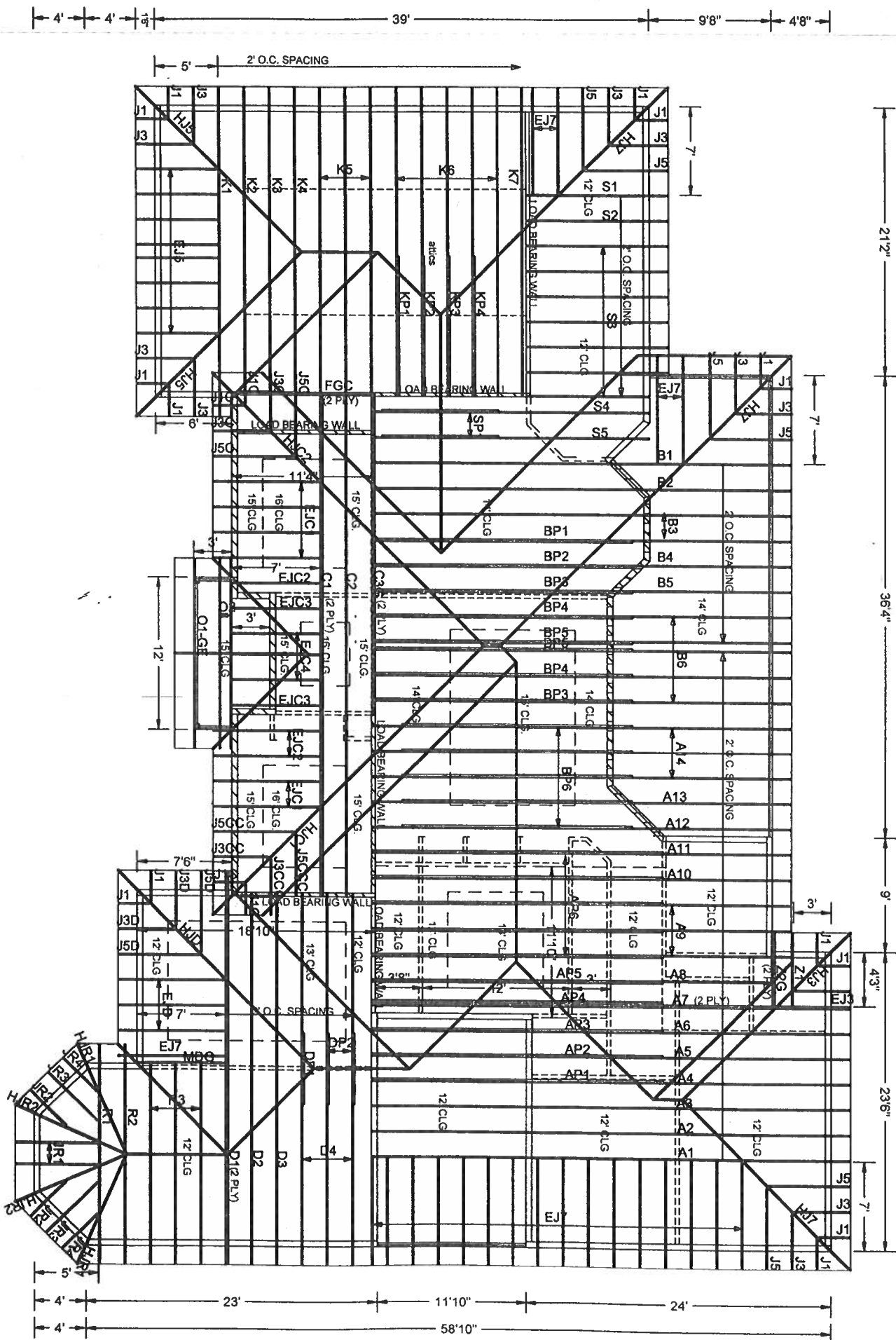
#	Ref	Description	Drawing#	Date
39	63873--HJC2		06307041	11/03/06
40	63874--EJC1		06307042	11/03/06
41	63875--EJC2		06307043	11/03/06
42	63876--EJC3		06307044	11/03/06
43	63877--EJC4		06307045	11/03/06
44	63878--J5C		06307046	11/03/06
45	63879--J5CC		06307047	11/03/06
46	63880--J5CCC		06307048	11/03/06
47	63881--J3C		06307049	11/03/06
48	63882--J3CC		06307050	11/03/06
49	63883--J3CCC		06307051	11/03/06
50	63884--J1C		06307052	11/03/06
51	63885--HJD		06307053	11/03/06
52	63886--EJD		06307054	11/03/06
53	63887--J5D		06307055	11/03/06
54	63888--J3D		06307056	11/03/06
55	63889--MDG		06307057	11/03/06
56	63890--HJR1		06307058	11/03/06
57	63891--HJR2		06307059	11/03/06
58	63892--JR1		06307060	11/03/06
59	63893--JR2		06307061	11/03/06
60	63894--JR3		06307062	11/03/06
61	63895--JR4		06307063	11/03/06
62	63896--Z1		06307010	11/03/06
63	63897--Z2G		06307012	11/03/06
64	63898--K1		06307096	11/03/06
65	63899--K2		06307064	11/03/06
66	63900--K3		06307065	11/03/06
67	63901--K4		06307099	11/03/06
68	63902--K5		06307066	11/03/06
69	63903--K6		06307067	11/03/06
70	63904--K7		06307132	11/03/06
71	63905--01-GE		06307068	11/03/06
72	63906--02		06307100	11/03/06
73	63907--AP1		06307069	11/03/06
74	63908--AP2		06307070	11/03/06
75	63909--AP3		06307071	11/03/06
76	63910--AP4		06307072	11/03/06

#	Ref	Description	Drawing#	Date
77	63911--AP5		06307073	11/03/06
78	63912--AP6		06307074	11/03/06
79	63913--BP1		06307075	11/03/06
80	63914--BP2		06307076	11/03/06
81	63915--BP3		06307077	11/03/06
82	63916--BP4		06307078	11/03/06
83	63917--BP5		06307079	11/03/06
84	63918--BP6		06307080	11/03/06
85	63919--DP1		06307081	11/03/06
86	63920--DP2		06307082	11/03/06
87	63921--KP1		06307083	11/03/06
88	63922--KP2		06307084	11/03/06
89	63923--KP3		06307085	11/03/06
90	63924--KP4		06307086	11/03/06
91	63925--SP1		06307087	11/03/06
92	63926--R1		06307088	11/03/06
93	63927--R2		06307089	11/03/06
94	63928--R3		06307090	11/03/06
95	63929--S1		06307091	11/03/06
96	63930--S2		06307092	11/03/06
97	63931--S3		06307093	11/03/06
98	63932--S4		06307094	11/03/06
99	63933--S5		06307095	11/03/06



#6-365 TRAVIS TIMMONS

10/31/06



Top chord 2x6 SP #2 :T1 2x4 SP #2 Dense:  
Bot chord 2x8 SP #1 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

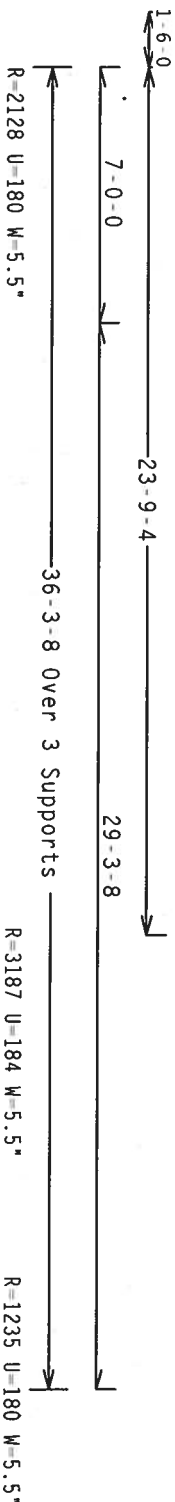
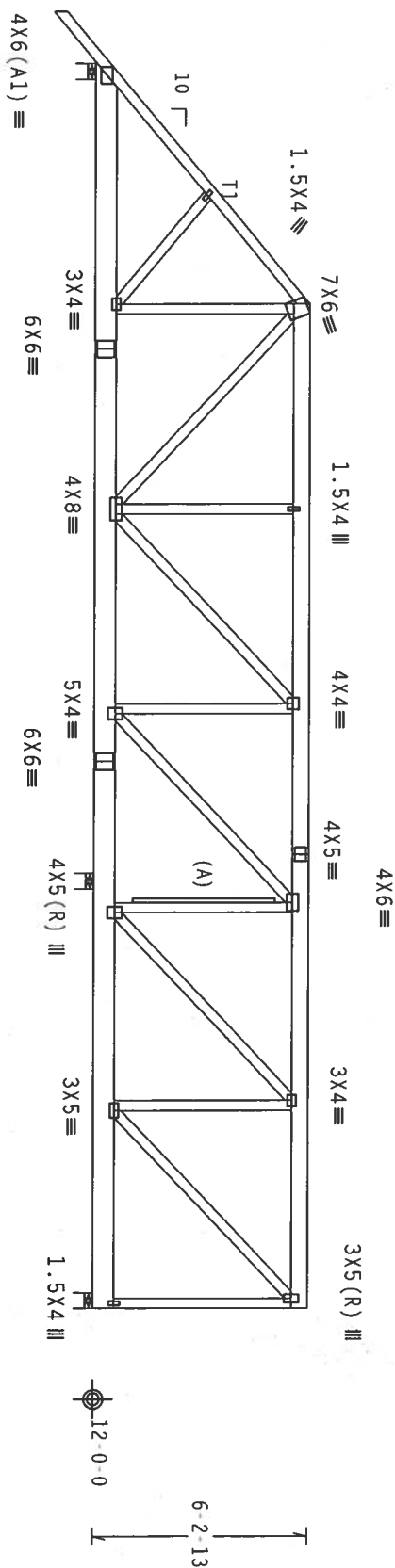
#1 hip supports 7-0-0 jacks with no webs.

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

Right end vertical not exposed to wind pressure.

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

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



PLT TYP. Wave

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

FL/-/4/-/R/-

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) FOR INFORMATION ON THE PROPER HANDLING OF TRUSSES.  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICK WOOD TRUSS COMPANY OF AMERICA, 630  
ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
A PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. APPLY  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (K. K/H-55) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2.

AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TPI-2002 SEC.3. A SEAL ON THIS  
DESIGN INDICATES THE SUITABILITY AND RANGE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

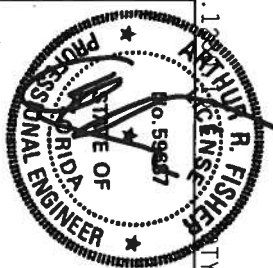
Alpine Engineered Products, Inc.

Haines City, FL 33844

1990 Marley Drive

Station #

Certificate



TC LL	20.0 PSF	REF	R487 - 63835
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307001
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135799
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T20487_201

Wind reactions based on MwFRS pressures.

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24$$

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

Scale = .1875"/Ft.

\*\*WARNING\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IPI (TRUSS PANEL INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MANASSAS, VA 20108) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 A PROPERLY ATTACHED RIGID CEILING.

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

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

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


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 TP11-2002 SEC.3. A SEAL ON THIS

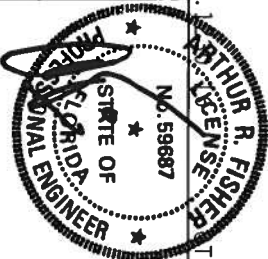
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



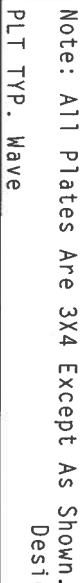
Nov 03 '06

TC LL	20.0 PSF	REF	R487-- 63836
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307002
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	135780
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T20487 201

Wind reactions based on MWFRS pressures.

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

110 mph wind, 16.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



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

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

7.24.1

1. **PERMISSION**

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

Scale = .1875"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRACING  
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (TRUSS PAPER INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD ROSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MOHAWK, VA 53139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. OFFICER CONCERNING WITH ADDITIONAL PROVISIONS OF THE NATIONAL SPECIFICATIONS FOR STEEL BUILDING.

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND IPI. ALPINE  
CONNECTOR PLATES ARE MADE OF 2018/16CA (U.S.S./K) ASTM A663 GRADE 40/60 (U.S.S./K) C.I.V. STEEL

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC. 3. A SEAL ON THIS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-2 CONNECTION PLATE MUST HAVE A MINIMUM THICKNESS 40/80 (IN., K/MN) GALL. STEEL. APPROX.

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

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 55687, dated Nov 03 '06.

TC LL	20.0 PSF	REF	R487--	63837
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307000
BC LL	0.0 PSF	HC-ENG	DAL/JAF	
TOT.LD.	40.0 PSF	SEON-	135776	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1T20487	201

JRFF- 1T20487\_Z01

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

Wind reactions based on MWFRS pressures.

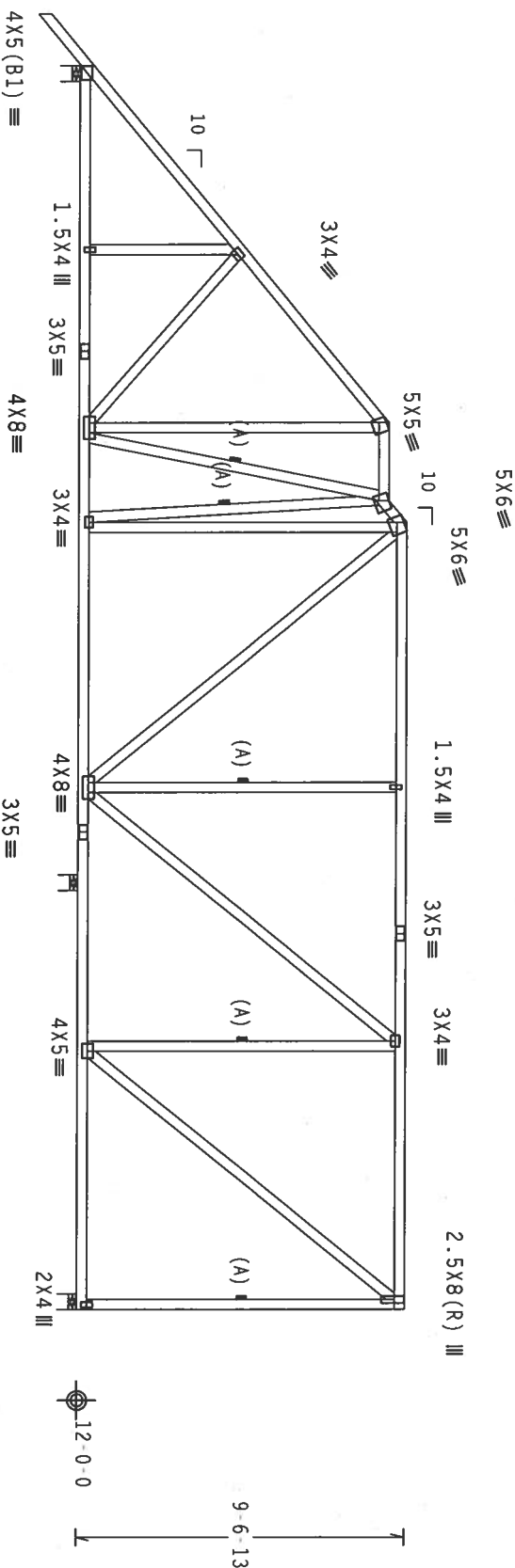
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 16.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



1-6-0  
10-4-8  
23-9-4  
2-3-0-7-8  
23-0-5  
36-3-8 Over 3 Supports  
R-1615 U-180 W-5.5"  
R-179 U-180 W-5.5"  
R-1435 U-189 W-5.5"

PLT TYP. Wave

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

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

Scale = .1875"/ft.

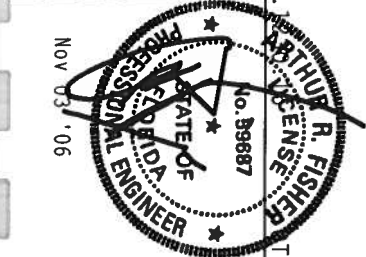
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI-2002. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI-1 SEC. 2.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI-2002. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI-1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.  
Haines City, FL 33844  
Station #

Certificate



TC LL	20.0 PSF	REF R487 - 63838
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307004
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN- 135773
DUR.FAC.	1.25	
SPACING	24.0"	URFF- 1T20487_201

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

Wind reactions based on MWFRS pressures.

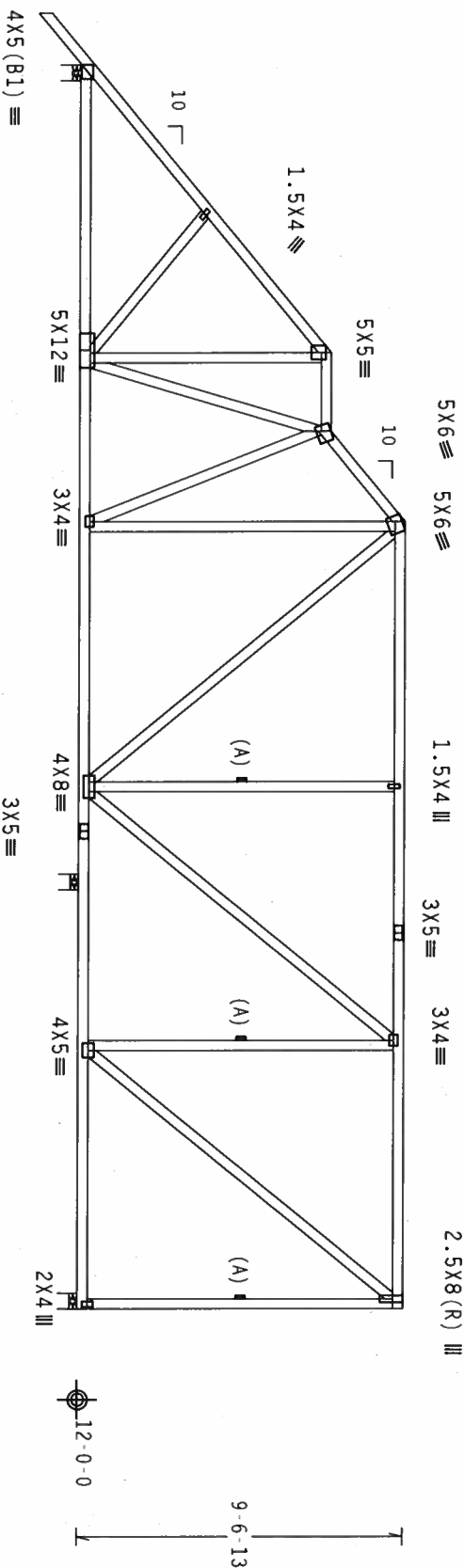
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 16.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



PLT TYP. Wave

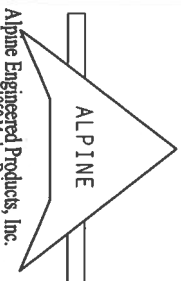
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO DCS1 (BUILDING INFORMATION SYSTEM) PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

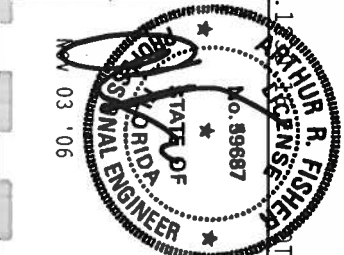
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AEP) AND TPI-2002 (STD).

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/ISO 1 SEC. 2.



Alpine Engineered Products, Inc.  
Haines City, FL 33844  
Haines City, FL 33844

Alpine Engineered Products, Inc.  
Haines City, FL 33844  
Haines City, FL 33844



TC LL	20.0 PSF	REF	R487-- 63839
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307005
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135765
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

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

Wind reactions based on MMFRS pressures.

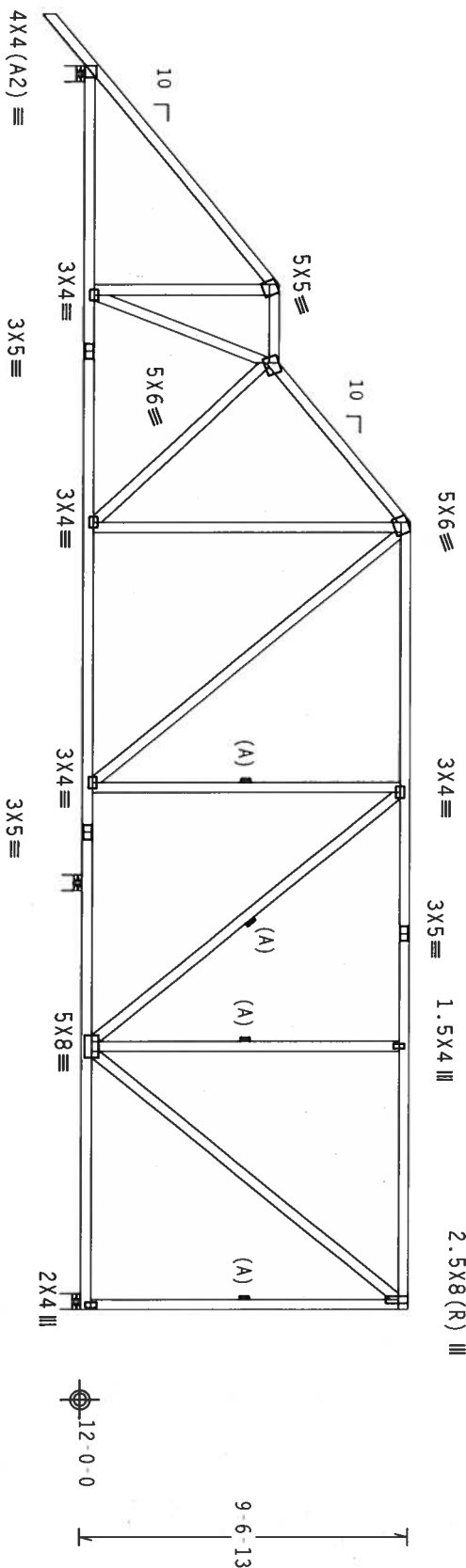
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 16.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



1-6-0  
6-4-8  
2-3-3  
4-7-8  
23-9-4  
23-0-5  
36-3-8 Over 3 Supports  
R=1617 U=180 W=5.5"  
R=173 U=180 W=5.5"  
R=1439 U=191 W=5.5"

PLT TYP. Wave

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

FL/-4/-/R/-

Scale = .1875"/ft.

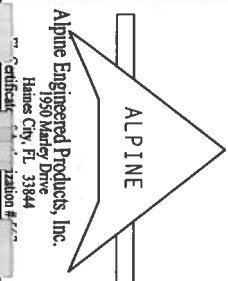
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) AND TPI-2002(STD) FOR MORE INFORMATION. 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MOOREHEAD, MS 38759 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI-2002(STD).

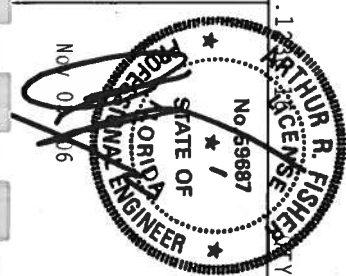
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI-2002(STD).

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI-2002(STD).

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI-2002(STD).



Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Certificate of Registration # 2222



TC LL	20.0 PSF	REF	R487-- 63840
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307006
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEON-	135757
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

## 2 COMPLETE TRUSSES REQUIRED

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

110 mph wind, 16.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC<sub>0</sub>=DL=5.0 psf, wind BC DL=5.0 psf

Right end vertical not exposed to wind pressure

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

	PLATE DUR. FAC. = 1.25	PLATE DUR. FAC. = 1.25
TC	From 1.50 to	66 PLF at 36.25
BC	5 PLF at 1.50 to	5 PLF at 0.00 to
BC	From 20 PLF at 0.00 to	20 PLF at 36.25
BC	264 LB Conc. Load at 3.06	
BC	913 LB Conc. Load at 4.54	

Wind reactions based on MWFRS pressures.

1-6-0

4-4-8

2-3-3

6-7-8

23-0-5

36-3-8 Over 2 Supports

R=2721 U=298 W=5.5"

R=1684 U=180 W=3.5"

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

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

7.24.12

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

Scale = .1875" / Ft.

\*\*WARNING\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (STEEL PAPER INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD ROSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MANASSAS, VA 20108) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. OFFICE CORRESPOND WITH TPI-101-101-01. [www.tpi.com](http://www.tpi.com)

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIAA) AND TPI CONNECTION DETAILS FOR WOOD JOINTS.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY

PLATES TO EACH FACE OF CROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC.3. A SEAL ON THIS

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

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



Professional Engineer Seal for R. Fisher, State of Florida, No. 59867. The seal includes a signature and a date stamp: NOV 03 1996.

TC LL	20.0 PSF	REF R487-- 63841
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUR487 0630701
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEON- 135750
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T20487_201

Wind reactions based on MWFRS pressures.

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

(C) 2x6 SP#3 or better "I" brace. 80% length of web member, attached with 16d box or gun (0.135x3.5", min.) nails @ 6" OC, or (1) continuous lateral brace equally spaced on member.

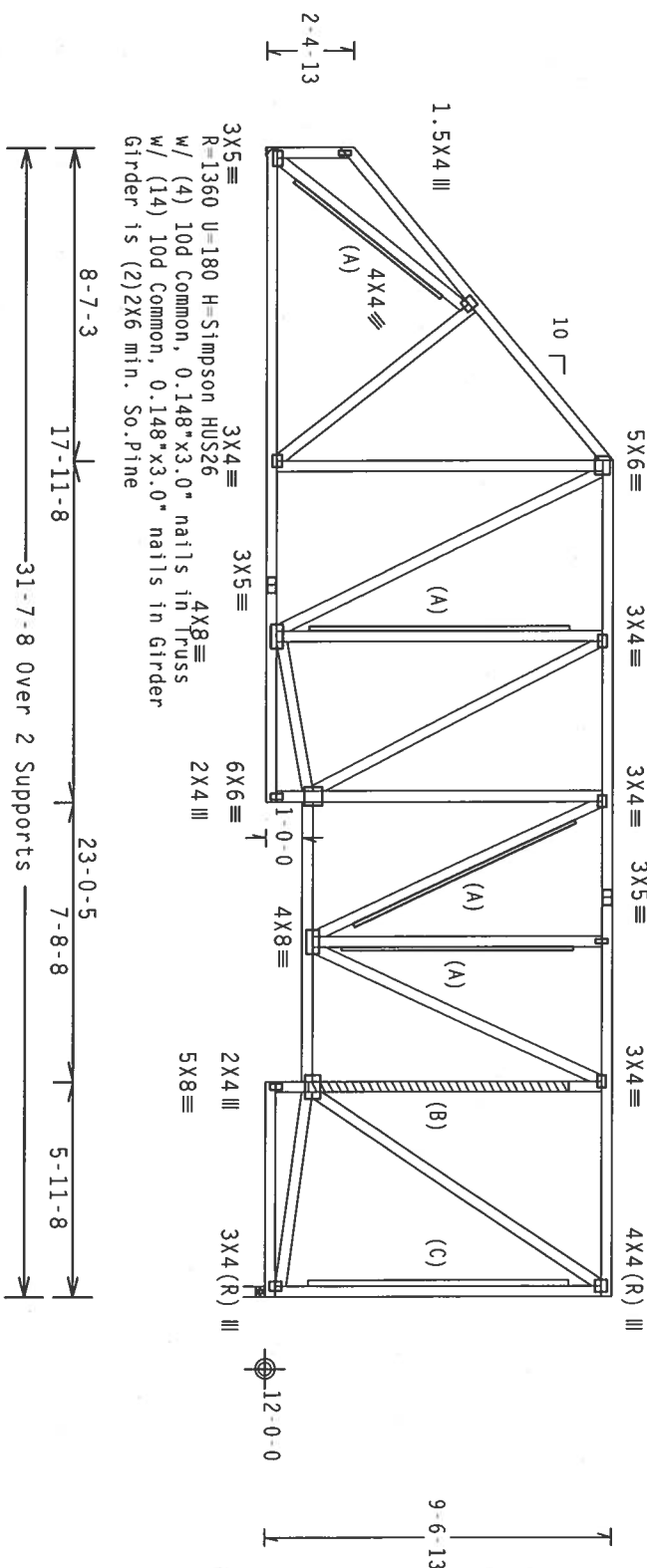
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

110 mph wind; 17.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(A) 1x4 SP#3 or better "I" brace. 80% length of web member, attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC, or (1) continuous lateral brace equally spaced on member.

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



R=1360 U=221 W=3.5"

Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .1875"/Ft.

\*"WARNING" - TESTS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TRUSS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD ROSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MOJO-SUN, FL 33179 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING  
DESIGN CONFORMS WITH APPLICABLE REQUIREMENTS OF NDS NATIONAL DESIGN CODE OR AREA AND TPI

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AIA/PA) AND TPI

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/SS/K) ASTM A653 GRADE 40/60 (W. K/H.SS) GALV. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER 2

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER D ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.2 OF TR11-2002 SEC 7


DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE T  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 SEC.3.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE ARCHITECT. THE SOCIETY OF PROFESSIONAL ENGINEERS ACCEPTS NO LIABILITY FOR THE DESIGN SHOWN.

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

[illegible]

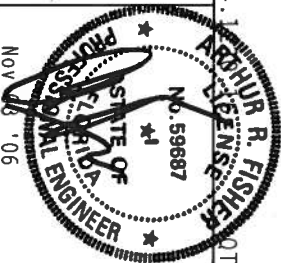
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ALPINE

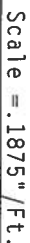
Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
Certificate #

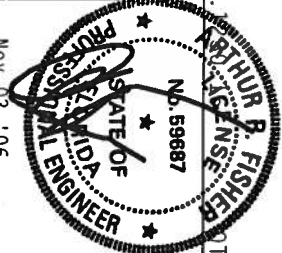


FL/-/4/-/-/R/-		Scale = .1875"/Ft.	
TC LL	20.0 PSF	REF	R487 - - 63842
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307011
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135729
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

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

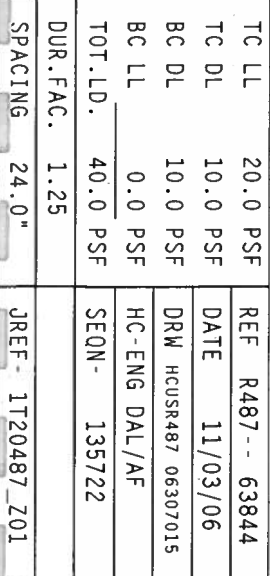


BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 63843
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307014
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	135709
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T20487_201

(C) 2x4 SP #3 or better "T" brace. 80% length of web member, attached with 1d box or Gun (0.135x3.5",min.) nails @ 6" OC. or (1) continuous lateral brace equally spaced on member.

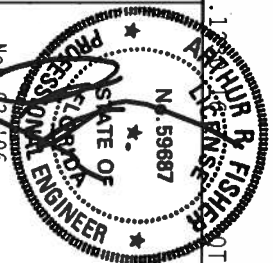
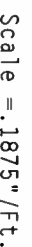


110 mph wind, 17.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

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



1 FL/-/4/-/-/R/-		Scale = .1875"/Ft.	
TC LL	20.0 PSF	REF	R487-- 63845
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307016
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135696
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487 Z01

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

110 mph wind, 18.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



Design Crit: TPI-2002(STD)/FBC

$$\frac{Cq/RT=1.00(1.25)/10(0)}{7.24.1}$$

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

Scale = .1875"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 ISSUES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TROSS PAPER INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD ROSS COUNCIL OF AMERICA, 65000  
 ENTERPRISE LANE, MOJOHIN, MI 48159) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\***

FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFA&PA) AND TPI.

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

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING. ANY INSPECTION OF PLATES FOLLOWED BY 10% MINIMUM OF ALL PLATES SHALL BE REQUIRED.

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

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TR

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE ARCHITECT AND/OR BUILDING DESIGNER AND NOT THAT OF THE MANUFACTURER.

**BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.**

Alpine Engineered Products, Inc

Haines City, FL 33844

**Certificate of**

Nov 03 '06

ARTHUR R. FISHER  
LICENSE  
N. 55687  
★  
STATE OF  
FLORIDA  
REGISTERED MAIL ENGINEER  
★

Nov 93, '06

TC LL	20.0 PSF	REF R487-- 63846
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCURS487 06307017
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEON- 135593 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_Z01

JREF- 1T20487\_Z01

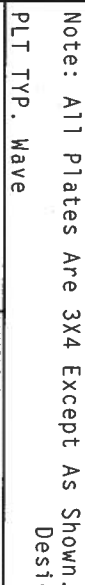
110 mph wind, 18.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

Right end vertical not exposed to wind pressure.

(C) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5" min.) nails @ 6" OC.

(A) Continuous lateral bracing equally spaced on member. Or 2x6 SP #3 or better "T" brace, 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5" min.) nails @ 6" OC.

SP #3 or better 1" brace. 80% length of web member.  
with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.



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

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

PTY:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

\* \* \*WARNING\* \* \*

TESSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING

REF TO GC'S (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI, TRUSS PLATE, INSTITUTE, 218

NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD JOINT CROSS COUNCIL OF AMERICA, 6300

ENTERPRISE LANE, MANASSAS, VA 20108) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS

OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE

PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMANCE WITH AND FIELD MODIFICATION OF THIS DESIGN SHALL BE RESPONSIBILITY OF THE USER.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (M H/SS/K) ASTM A553 GRADE 40/60 (M K/M DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY A18/P)

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 TPII-2002 SEC.3. A SEAL ON THIS

**DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY**

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

0.47

T07-104031T 1710

1



110 mph wind, 16.69 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

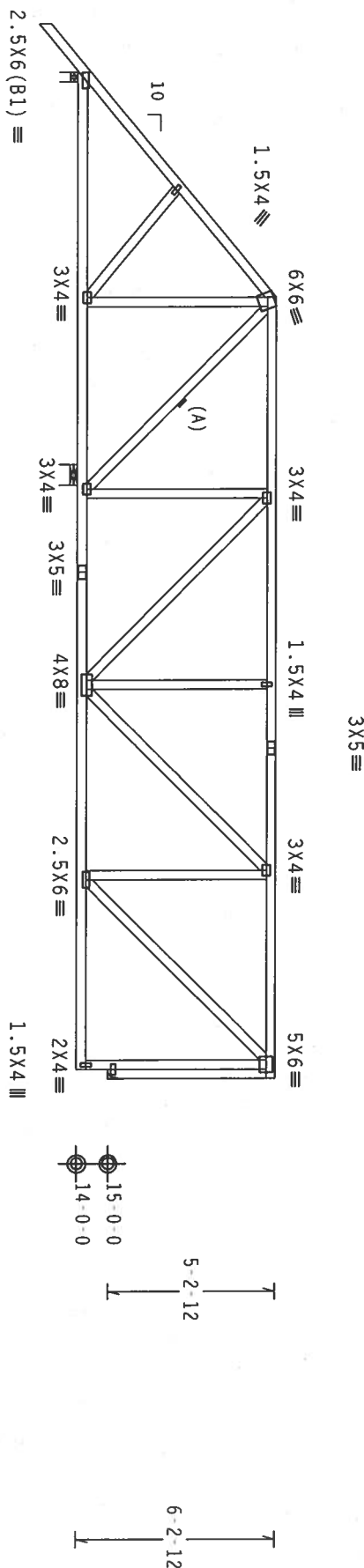
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS

	(LUMBER	DUR.FAC. = 1.25	/	PLATE	DUR.FAC. = 1.25)
TC	From	66 PLF at -1.50	to	66 PLF at 31.33	
BC	From	5 PLF at -1.50	to	5 PLF at 0.00	
BC	From	20 PLF at 0.00	to	20 PLF at 31.04	
TC	199 LB	Conc. Load at	7.06,	9.06	
BC	427 LB	Conc. Load at	7.00,		
BC	82 LB	Conc. Load at	9.06		

(J) hanger connection not found in inventory file for this condition. Provide connection.

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



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

7.24.12 RTTY:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

\*\*\*WARNING\*\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PACE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MOJISUM, IN 46341) 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 TOP CHANGING.


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

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

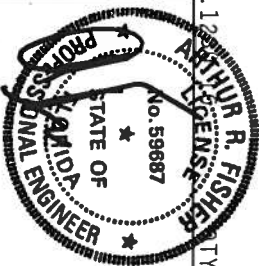
CONNECTOR PLATES ARE MADE OF 20/18/16GA (M, H/SS/K) ASTM A653 GRADE 40/60 (M, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF STUDS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION SEE DRAWING 1004-2

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

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



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



TC LL	20.0 PSF	REF	R487 - 63849
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307020
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	135487
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T20487_201

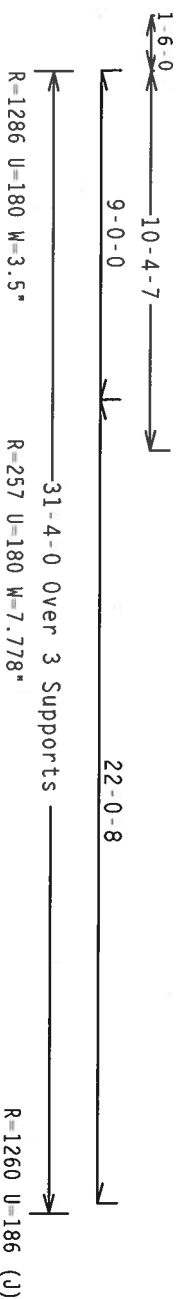
(J) hanger connection not found in inventory file for this condition. Provide connection.

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

110 mph wind, 17.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

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

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

7.24.1

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

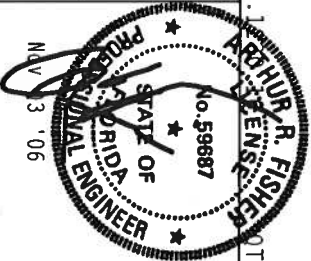
Scale = .1875" / Ft.

\*\*\*WARNING\*\* THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 TO BE USED TO BUILD OR REBUILD COMPONENTS. INFORMATION, PUBLISHED BY TPI, TRUSS PACE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WITA WOOD TRUSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

**Certificate of Registration**



TC LL	20.0 PSF	REF	R487 - - 63850
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307021
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135497
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487 Z01

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Rt Bearing Leg 2x4 SP #3:

(J) hanger connection not found in inventory file for this condition. Provide connection.

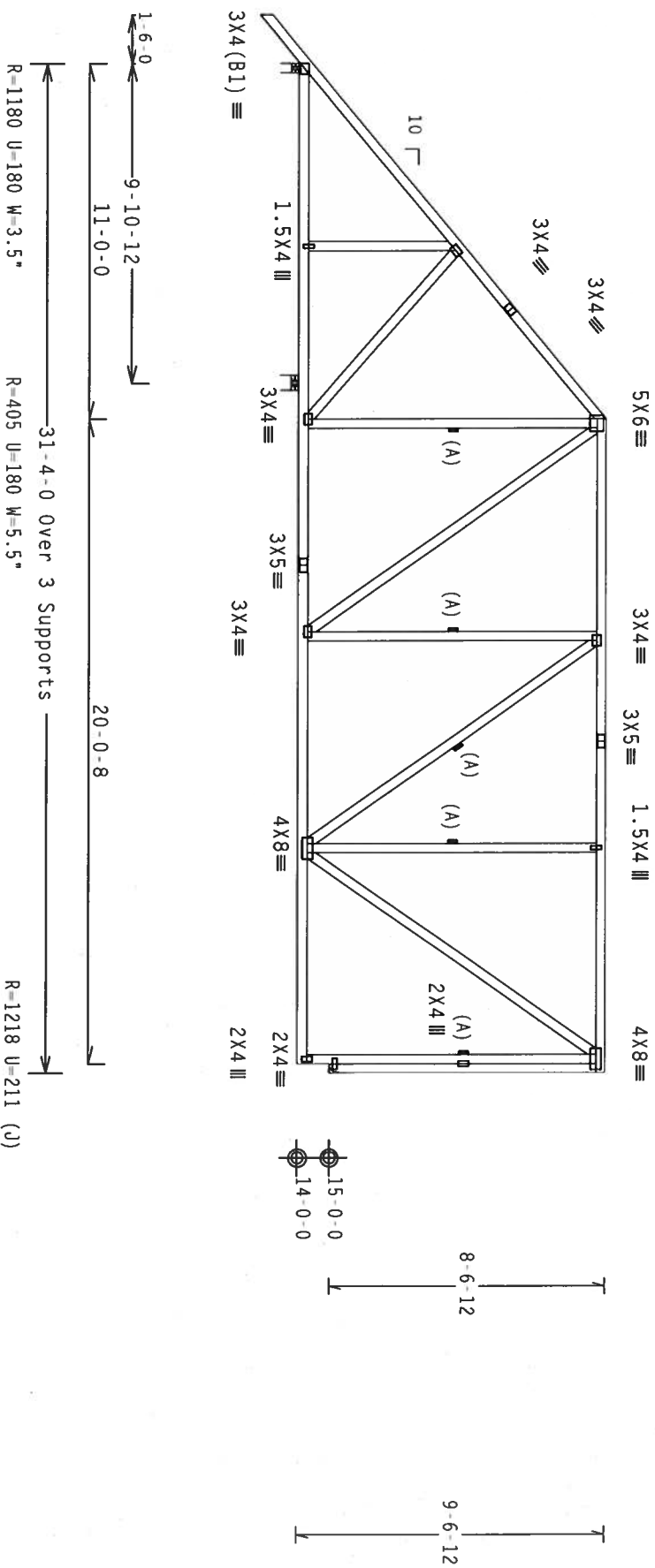
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 18.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

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

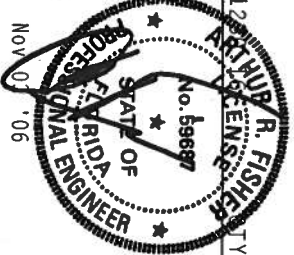
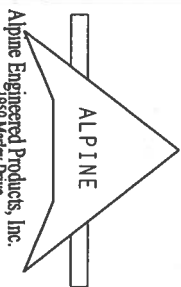
TY:1 FL/-/4/-/1-/R/-

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. (SEE TPI-2002(1.25) FOR MORE INFORMATION). AND LISTED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 311, ESCAMBARO, MI 49829. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



TC LL	20.0 PSF	REF R487-- 63651
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUR487 06307022
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN- 135516
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Rt Bearing Leg 2x4 SP #3:

(J) hanger connection not found in inventory file for this condition. Provide connection.

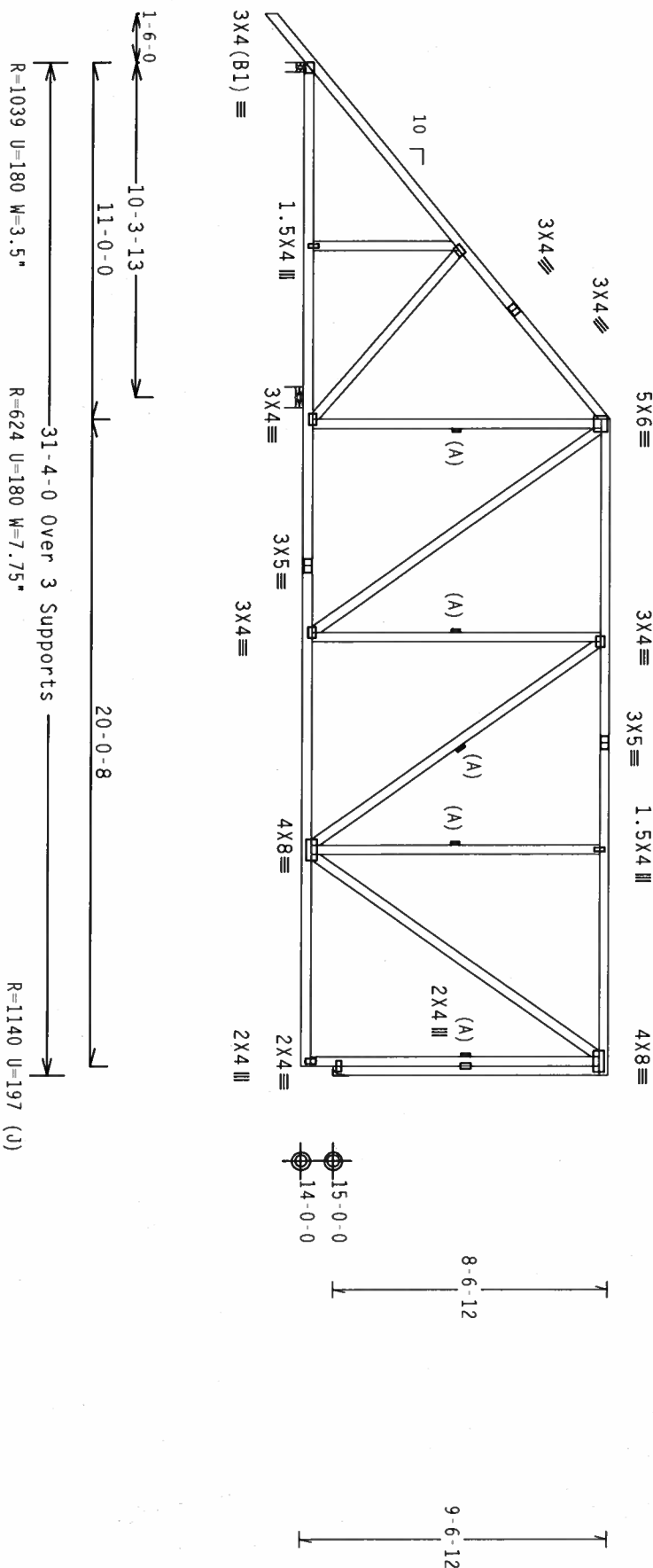
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 18.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

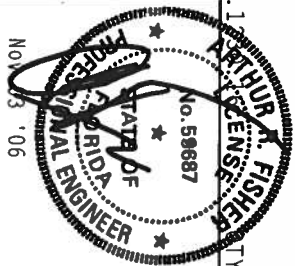
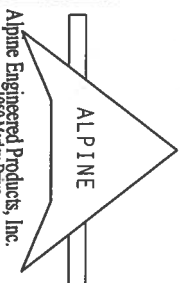
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BCST (BUILDING CODES) FOR TRUSS DESIGN, MANUFACTURING, AND BRACING REQUIREMENTS. 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND WOOD TRUSS MANUFACTURING CO., UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/V/S/S) ASTM A653 GRADE 40/60 (K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE DESIGNER'S ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER AMS/TP1 SEC. 2.



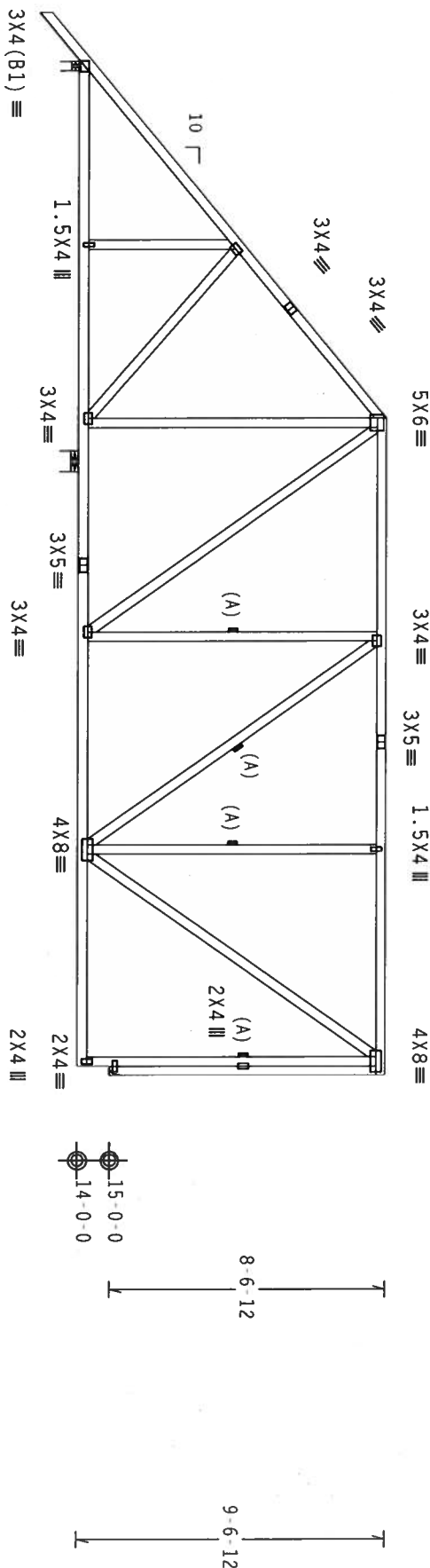
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TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307023
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135531
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Scale = .1875"/ft.

(J) hanger connection not found in inventory file for this condition. Provide connection.

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

110 mph wind, 18.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .1875"/Ft.

\*\*\*WARNING\*\*\*  
DESIGNS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BC01 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300  
ENTERPRISE LANE, MANASSAS, VA 20108 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
PROPERLY ATTACHED RIDGE CEILING.

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

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPJ. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W M/SS/K) ASTM A653 GRADE 40/60 (W K/M SS) COLD STEEL

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2 CONNECTION PLATES MADE OF 20/10/18GA (W. 11/35/K) ASIM A653 GRADE 40/60 (W. K/H.35) GALV. STEEL. APPLY


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

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

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

100



**ALPINE**

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

certification #

TC LL	20.0 PSF	REF	R487 - 63853
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307024
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135541
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Wind reactions based on MWFRS pressures.

110 mph wind, 18.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



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

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

7.24.12

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

Scale = .1875"/Ft.

\*\*\*WARNING\*\*\*  
 BUILDERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 (TENSILE COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (STRESS PANEL INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND VICA (WOOD ROSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MOISTON, MI 48159) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI CONNECTOR PLATES ARE MADE OF 2018/66A (U N/55/K) ASTM A567 GRADE 40/50 (U N/55) C414

CONNECTOR PLATES ARE MADE OF 20/18/150A (W.H/55/K) ASTM A653 GRADE 40/60 (W. K/H.55) GALV. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER

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

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE T

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Journal Pre-proof

**Alpine Engineered Products, Inc**

1950 Marley Drive  
Hillsdale, N.J. 07642

Haines City, FL 33844

**certification #**

Professional Engineer Seal for Arthur A. Fisher, State of Florida, No. 59687, dated Nov 06 06.

TC LL	20.0 PSF	REF	R487 - 63854
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCU8R487 06307025
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135553
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

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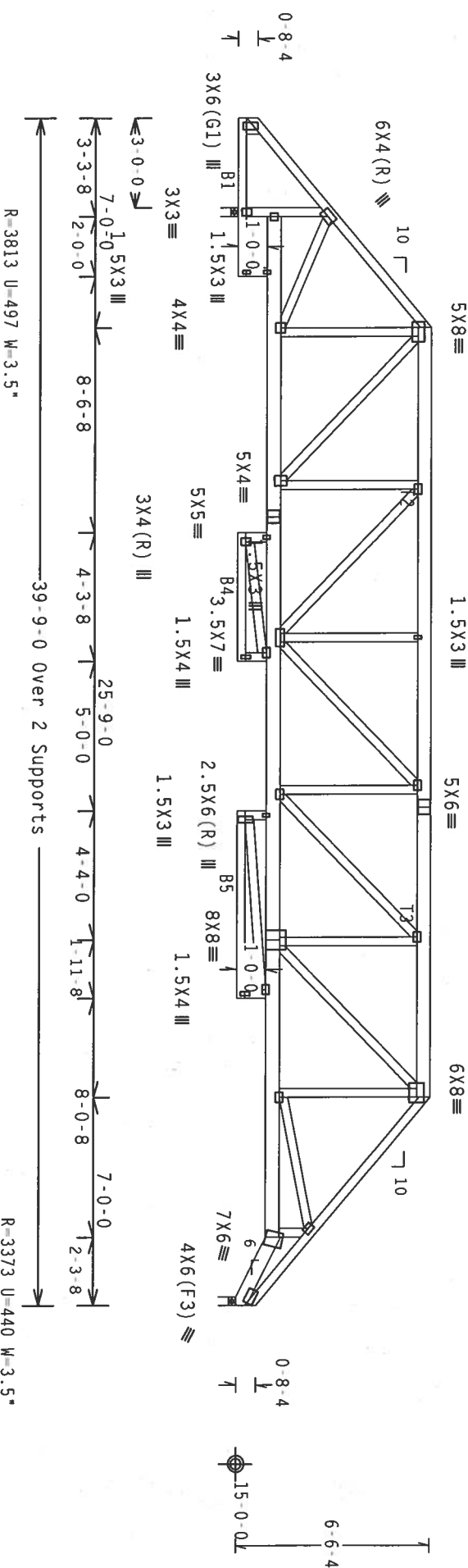
      Webs 2x4 SP #3
:lt Stubbed Wedge 2x6 SP #2:

```

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

IC	From	66 PLF at 0.00 to	66 PLF at 39.75
BC	From	20 PLF at 0.00 to	20 PLF at 37.46
BC	From	22 PLF at 37.46 to	22 PLF at 39.75
TC	285 LB Conc.	Load at 7.00	11.00, 13.00, 30.75
TC	135 LB Conc.	Load at 9.00	26.75, 28.75
TC	202 LB Conc.	Load at 15.00	24.75
TC	50 LB Conc.	Load at 17.00	20.75, 22.75
TC	30 LB Conc.	Load at 19.00	
TC	492 LB Conc.	Load at 32.75	
TC	339 LB Conc.	Load at 7.00	11.00, 13.00, 30.75
BC	154 LB Conc.	Load at 9.00	26.75, 28.75
BC	87 LB Conc.	Load at 15.00	24.75
BC	29 LB Conc.	Load at 16.97	20.75, 22.75
BC	13 LB Conc.	Load at 19.00	
BC	451 LB Conc.	Load at 32.75	

NOTE: LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 2'0" O.C.  
MAX. INCLUDING A LATERAL BRACE AT CHORD ENDS.



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

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

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

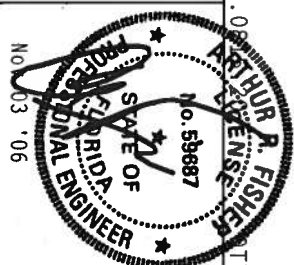
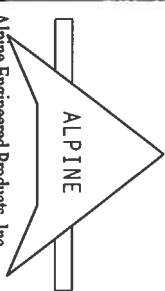
```
1 FL/-/4/-/-/R/-
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Scale = .1875"/Ft.

**\*\*WARNING\*\*** BUILDERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION. PUBLISHED BY IPI TRUSS PAPER INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WOOD ROSS COUNCIL OF AMERICA, 6300 GREENWICH AVENUE, MADISON, WI 53719 FOR SAFETY PRACTICES AND VICTORY THROUGH THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

**\*\*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 CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFLICTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AISC) AND TO ALPINE.

Alpine Engineered Products, Inc.  
1050 Medical Drive



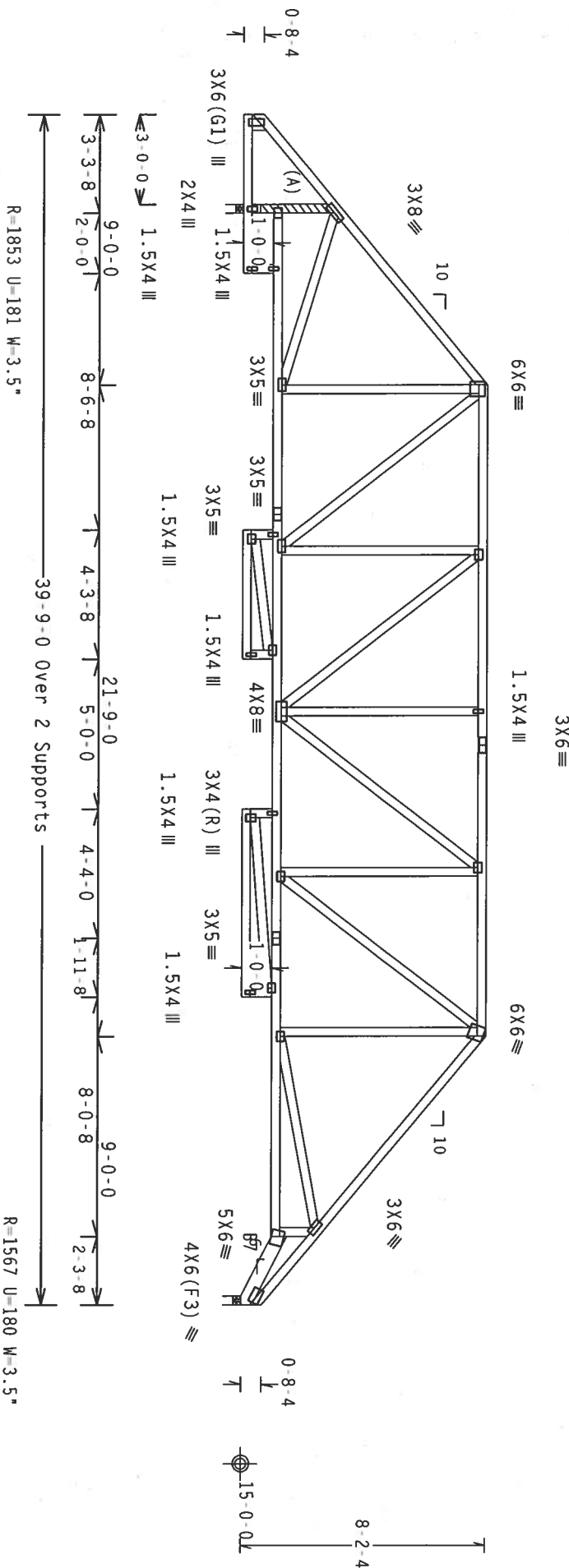
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TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUS6487 06307026
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	12988 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T20487_201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense :B7 2x6 SP #2:  
Weds 2x4 SP #3  
:Lt Studded Wedge 2x6 SP #2:

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

NOTE: Laterally brace bottom chord above filler at 2'0" O.C.  
MAX. INCLUDING A LATERAL BRACE AT CHORD ENDS.

110 mph wind, 19.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Wind reactions based on MWFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

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

7.24.

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

Scale = .1875"/ft.

REF R487-- 63856

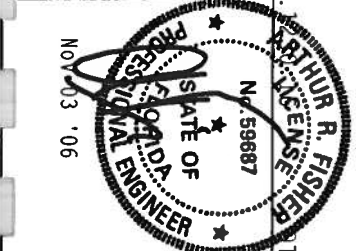
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION 22314) AND WTC3 (WOOD TRUSS CONNECTIONS) UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI-2002. APPLY CONNECTION PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI-2002. APPLY CONNECTION PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2.

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

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



TC LL	20.0 PSF	REF	R487-- 63856
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307027
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135213
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Top chord 2x4 SP #2 Dense  
Bot chord 2x8 SP #1 Dense  
Webs 2x4 SP #3

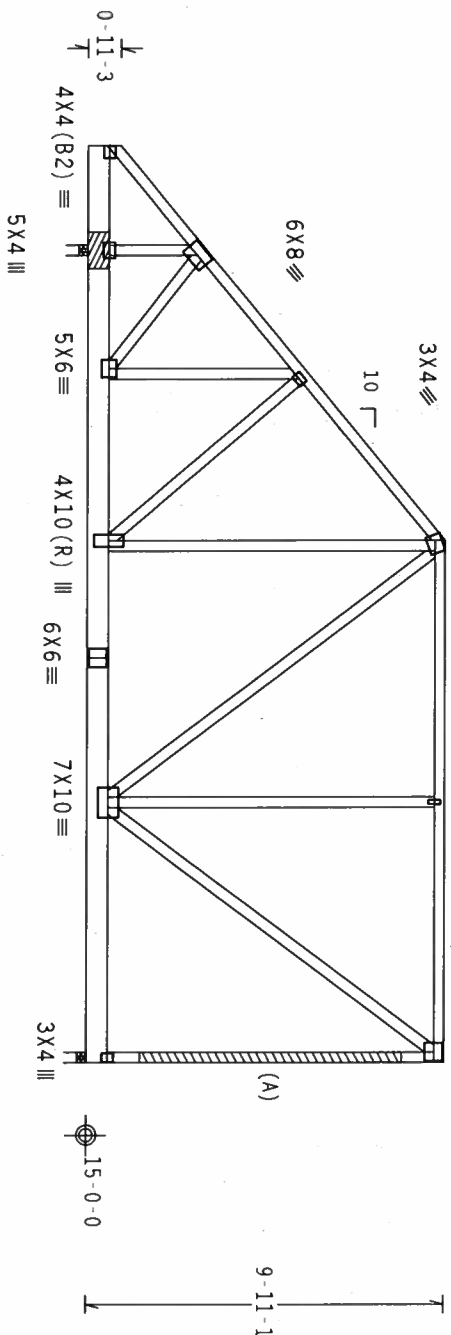
SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 66 PLF at 0.00 to 66 PLF at 25.13  
BC - From 20 PLF at 0.00 to 20 PLF at 25.13  
BC - 926 LB Conc. Load at 1.22  
BC - 822 LB Conc. Load at 3.22  
BC - 947 LB Conc. Load at 5.22  
BC - 1260 LB Conc. Load at 7.22  
BC - 1218 LB Conc. Load at 9.22, 11.22  
BC - 1140 LB Conc. Load at 13.22  
BC - 1209 LB Conc. Load at 15.22  
BC - 726 LB Conc. Load at 17.22, 19.22, 19.94, 21.94, 23.94

Wind reactions based on MMFRS pressures.

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

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



2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25",\_min.)\_nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @3.75" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 12d Common (0.148"x3.25",\_min.)\_nails  
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
1 2.708' 1 12" 6 Match Truss  
Bearing block to be same size and species as bottom chord.  
Refer to drawing CNBRBLK1103 for additional information.

110 mph wind, 20.43 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.  
6X6(R) III

PLT TYP. Wave

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

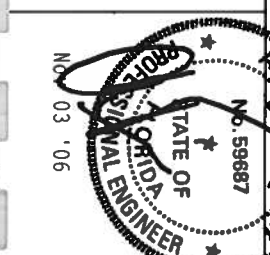
R=8418 U=1463 W=3.5"  
R=6111 U=915 W=3.5"

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TRANSPORT. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING STORAGE. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING INSTALLATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING USE. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING REMOVAL. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING DISPOSAL. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING RECYCLING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING INCINERATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING LANDFILLING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING BURIAL. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING EXCAVATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING REMEDIATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING DEMOLITION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING DECONSTRUCTION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING REPAIR. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING RENOVATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING RESTORATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING PRESERVATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING MAINTENANCE. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING INSPECTION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TESTING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING EVALUATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING DOCUMENTATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING ARCHIVING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING PRESERVATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING MAINTENANCE. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING INSPECTION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TESTING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING EVALUATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING DOCUMENTATION. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING ARCHIVING.

ALPINE

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

Home Office  
Certified  
Travis Timmons



TC LL	20.0 PSF	REF R487-- 63857
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307028
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEON- 135645
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_201

Top chord 2x4 SP #2 Dense : 12 2x6 SP #2:  
Bot chord 2x6 SP #2 : B2 2x4 SP #2 Dense:  
Webs 2x4 SP #3

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 66 PLF at -1.50 to 66 PLF at 29.50  
BC - From 5 PLF at -1.50 to 5 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 2.46  
BC - From 20 PLF at 2.46 to 20 PLF at 28.00  
BC - From 5 PLF at 28.00 to 5 PLF at 29.50  
PLT - 212 LB Conc. Load at (9.06,18.19), (11.06,18.19)  
PLB - 199 LB Conc. Load at (13.06,18.19)  
PLB - 356 LB Conc. Load at (7.00,13.04)  
PLB - 69 LB Conc. Load at (9.06,13.04) (11.06,13.04)  
PLB - 82 LB Conc. Load at (13.06,12.04)  
PLB - 1072 LB Conc. Load at (13.60,12.04)  
PL - 571 LB Conc. Load at (7.06,18.23)

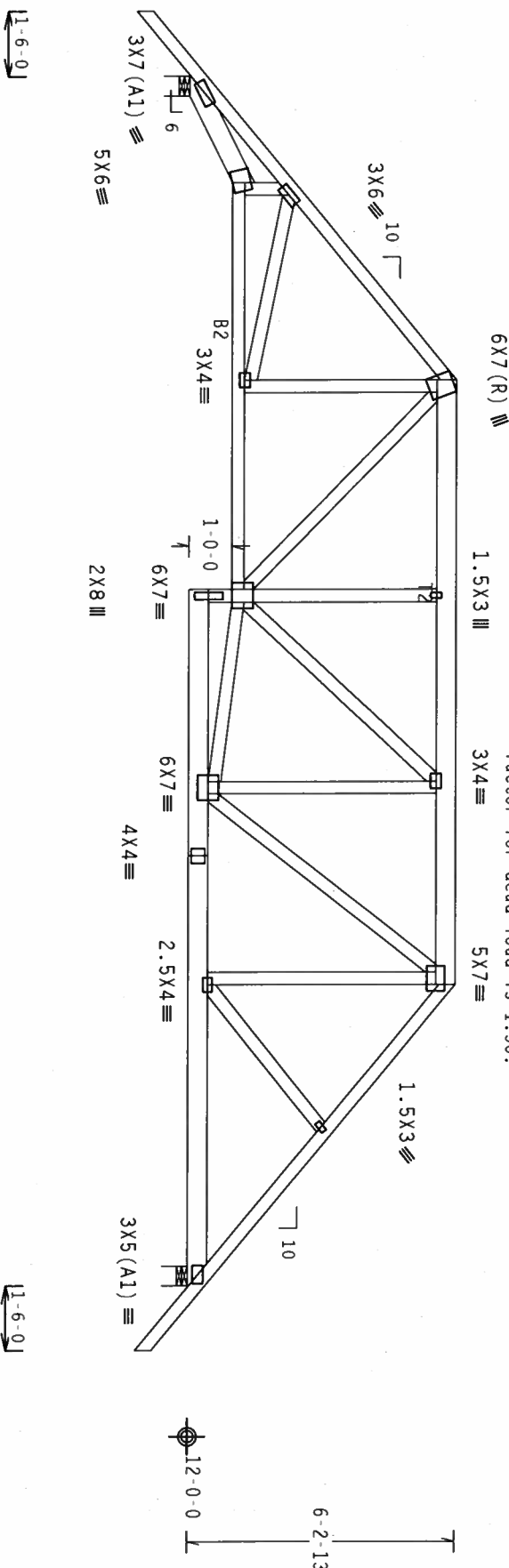
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common @ 0.148"x3.25", min.)\_nails)  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.  
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, Wind BC  
DL=5.0 psf.

Wind reactions based on MMFRS pressures.

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

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



1'-6-0"  
2'-5-8 7'-0-0 9'-4-8 14'-0-0 16'-2-0 7'-0-0  
R=3070 U=415 W=5.5"  
R=2395 U=334 W=5.5"

PLT TYP. Wave

Design Cmt: TPI-2002(STD)/FBC

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

7.31.00

FL/-4/-/-R/-

Scale = .25"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) FOR TRUSS SAFETY INFORMATION. 610  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICOMOD TRUSS COMPANY OF AMERICA, UNLESS  
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
A PROPERLY ATTACHED RIGID CEILING.

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

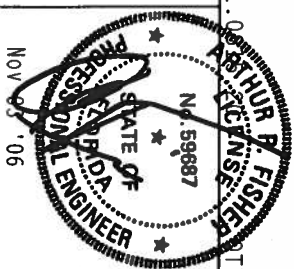
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
DESIGN IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTIONS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2.  
ON INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS  
DESIGN SHOWS THE DESIGNER'S ACCEPTANCE OF THE DESIGN AND THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

Haines City, FL 33844  
Certificate # 1990 Marley Drive  
Station # 1

ALPINE

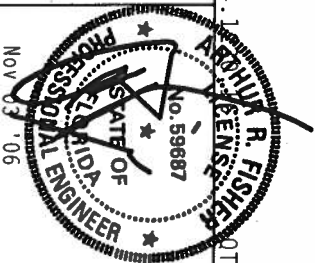


TC LL	20.0 PSF	REF	R487--	63558
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307029
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT.LD.	40.0 PSF	SEON-	12981	REV
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1T20487_Z01	

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



1950 Marney Drive  
Haines City, FL 33844  
Certification # 1234567890



TC LL	20.0 PSF	REF	R487 - - 63859
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307030
BC LL	0.0 PSF	HC-ENG	DAL/AF *
TOT.LD.	40.0 PSF	SEQN-	135803
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Wind reactions based on MWFRS pressures.

110 mph wind, 16.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf.

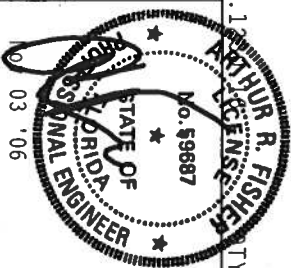

$$Cq/RT=1.00(1.25)/10(0)$$

Scale = .1875"/Ft.

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

Alpine Engineered Products, Inc.

1930 Marney Drive  
Haines City, FL 33844



TC LL	20.0 PSF	REF	R487 - 63860
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307031
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135807
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Wind reactions based on MMFRS pressures.

110 mph wind, 16.43 ft mean hgt., ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf.



Design Crit: TPI-2002(STD)/FBC

$$\frac{Cq/RT=1.00(1.25)/10(0)}{7.24.1}$$

FL/4/-/-/R/-

Scale = .1875"/Ft.

\*\*\*WARNING\*\*\*  
BUILDERS REQUIRE EXTREME CARE IN PARTICUTION, HANDLING, SHIPPING, INSTALLING AND BRACING  
REFER TO BC61 (BULBOSM COMPONENT SYSTEM INFORMATION), PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 218  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD JOINT TRUSS COUNCIL OF AMERICA), 6300  
ENTERPRISE LANE, MOJOSSIN, MI 52379 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
PROPERLY ATTACHED RIGID CEILING.

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

TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN CONG. OR AC308) AND THE

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/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY

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

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

**BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.**



**ALPINE**

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



Professional Engineer Seal for Arthur N. Fisher, State of Florida, No. 59687, dated November 8, 1906.

TC LL	20.0 PSF	REF	R487 - 63861
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307032
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135811
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_Z01

## SPECIAL LOADS

End verticals not exposed to wind pressure.

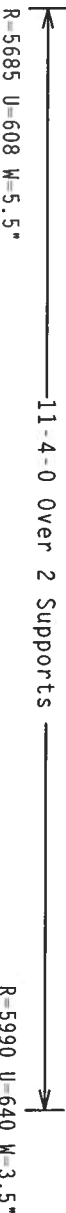
The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

Nailing Schedule: (12d Common (0.148"x3.25",\_min.)\_nails)  
Top Chord: 1 Row @12.00"

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

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

Truss must be installed as shown with top chord up



Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .5" / Ft

REFERENCE	TRUSSES REQUIRE EXTREME CARE IN FABRICATION	HANDLING, SHIPPING, INSTALLING AND BRACING
REFER TO BCSI (BUILDING COMPONENT SELECTION INFORMATION), NORTH LANE STREET, SUITE 312, ALEXANDRIA, VA. 22314		PUBLISHED BY TPI, TRUSS PANE INSTITUTE, 218 AND WICO WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, MADISON, WI 53719	FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS,	UNLESS
OTHERWISE INDICATED, TWO CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE		
PROPERLY ATTACHED RIGID CEILING.		

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE INTERNATIONAL BUILDING CODE (IBC). ANY FAILURE TO BUILD THE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN.

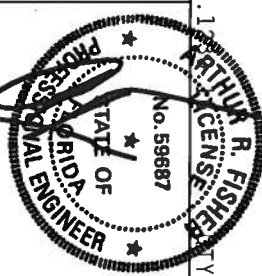
OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

THIS CONTRACT IS SUBJECT TO THE TERMS AND CONDITIONS OF THE STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR, AS SET FORTH IN THE SPECIFICATIONS AND DRAWINGS.

CONNECTION PLATES ARE MADE OF 20/18/16GA (M.H/55/K) L5TH A653 GRADE 40/60 (M, K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2 ALPINE

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

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



TC LL	20.0 PSF	REF	R487 - - 63862
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307033
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	135394
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T20487_201

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

Wind reactions based on MMFRS pressures.

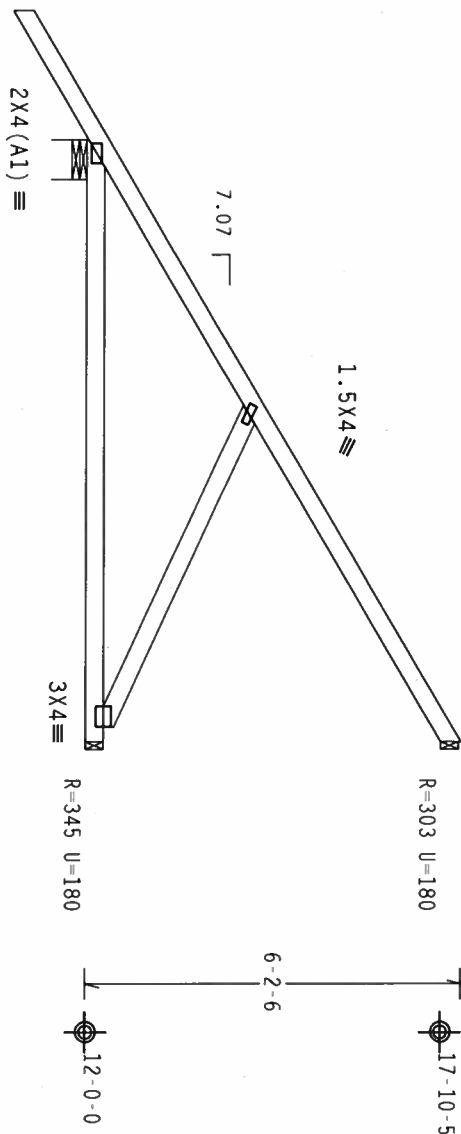
Hipjack supports 7'-0" setback jacks with no webs.

Provide ( 3 ) 16d common nails (0.162"x3.5"), toe nailed at Top chord.  
Provide ( 3 ) 16d common nails (0.162"x3.5"), toe nailed at Bot chord.

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

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

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



2-1-7

9'-10-13 Over 3 Supports  
R=485 U=180 W=7.778"

PLT TYP. Wave

Design Cmt: TPI-2002(STD)/FBC

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

7.24.1

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

Scale = .3125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI TRUSS COUNCIL OF AMERICA, 4300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA - 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 4300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. ALPINE

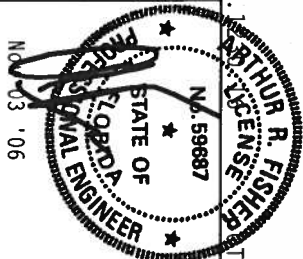
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES COMPLIANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN AND NOT FOR THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

Professional Engineer License # 03-06



TC LL	20.0 PSF	REF R487-- 63863
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307034
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN- 135242
DUR.FAC.	1.25	
SPACING	24.0"	
JREF	1T20487_201	



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

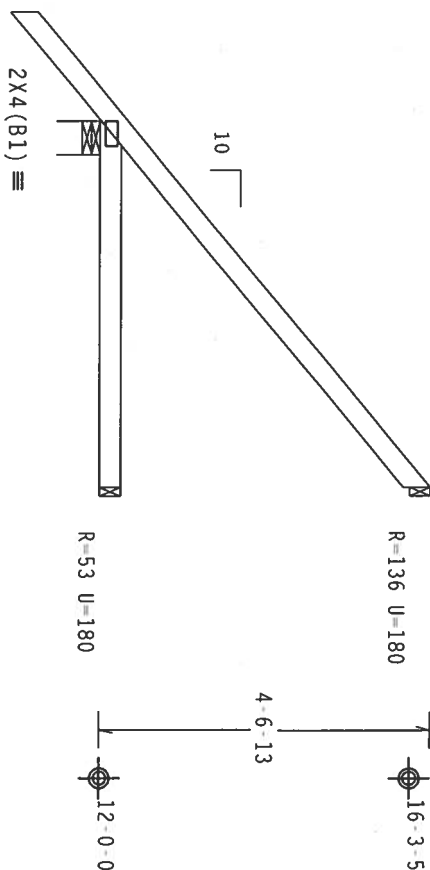
Wind reactions based on MMFRS pressures.

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

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

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

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



1-6-0

5-0-0 Over 3 Supports

R=348 U=180 W=5.5\*

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

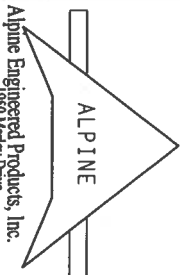
QTY: 1

FL/-/4/-/R/-

Scale = .375"/Ft.

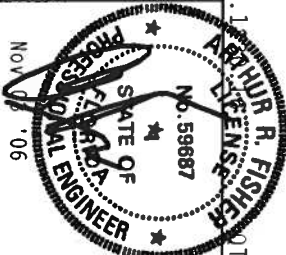
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PANEL INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICA (WOOD INDOOR TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, 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 ASEP) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. DEFLECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN STANDARD 1002 SEC. 3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/FP1 1 SEC. 2.



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

Certificate of Designation #

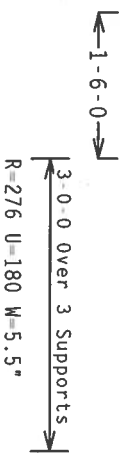


TC LL	20.0 PSF	REF	R487-- 63865
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307036
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	134894
DUR.FAC.	1.25		
SPACING	24.0"	DRFF-	1T20487_201

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

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

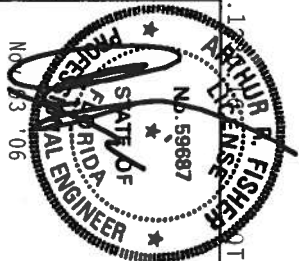
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Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.
```



Scale = .5" / Ft.

ALPINE

1930 Marney Drive  
Haines City, FL 33844



TC LL	20.0 PSF	REF	R487 - 63866
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307037
BC LL	0.0 PSF	HC-ENG	DAL/AF *
TOT.LD.	40.0 PSF	SEQN -	134880
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T20487_201

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

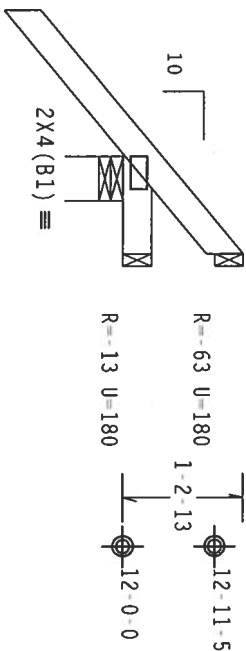
Wind reactions based on MMFRS pressures.

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

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

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

Provide ( 3 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-6-0' over 3 supports  
R=63 U=180  
R=13 U=180  
R=269 U=180 W=5.5"

PLT TYP. Wave

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

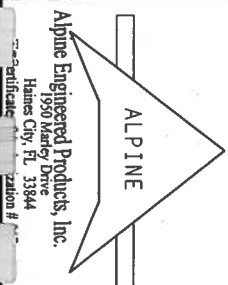
7.24

FL/-/4/-/R/-

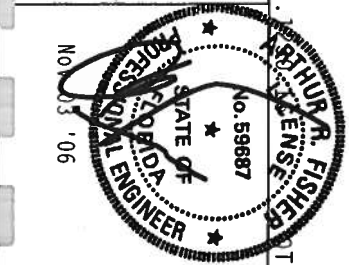
Scale = 5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER LOADS ARE APPLIED, THE TRUSS SHOULD BE INSPECTED FOR DEFLECTIONS, CRACKS, AND OTHER DEFECTS. IF ANY DEFECTS ARE FOUND, THE TRUSS SHOULD BE REINSPECTED PRIOR TO PROCEEDING WITH THE BUILDING. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AEP&A) AND TPI-2002(STD)/FBC. ALPINE 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.  
Haines City, FL 33944  
1990 Marley Drive  
Certification #



TC LL	20.0 PSF	REF	R487-- 63867
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307008
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	134884
DUR.FAC.	1.25		
SPACING	24.0"	DRFF-	1T20487_201

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

Wind reactions based on MMFRS pressures.

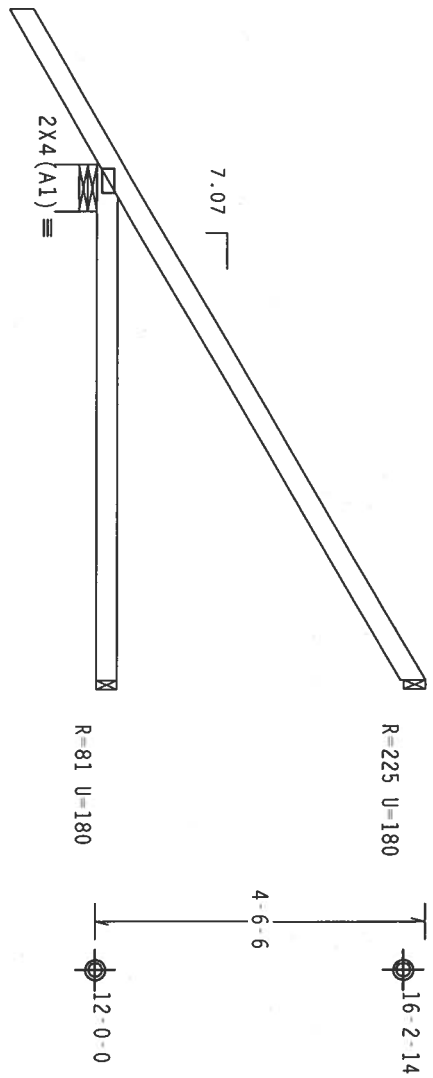
Hipjack supports 5'-0" setback jacks with no webs.

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

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

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

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



2-1-7

7-0-14 Over 3 Supports  
R=324 U=180 W=7.778"

PLT TYP. Wave

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

7.24



FL/-4/-/-R/-

Scale = .375"/Ft.



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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI-2002 (STD). ALPINE 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 SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/HP 1 SEC. 2.

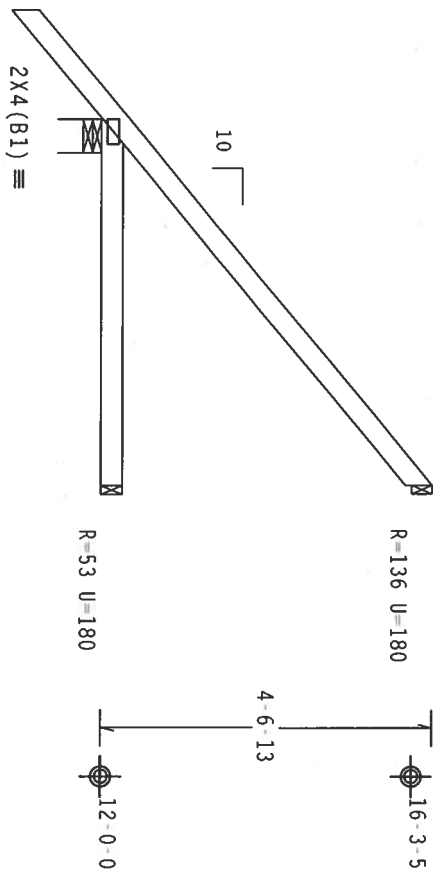
No. 5966  
No. 00106

TC LL	20.0 PSF	REF	R487--	63868
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307038
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT.LD.	40.0 PSF	SEQN-	135218	
DUR.FAC.	1.25			
SPACING	24.0"	DRFF-	1T20487_201	

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

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

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



0.9-1.7

≤5-0-0 Over 3 Supports →  
R=348 U=180 W=5.5"

PLT TYP. Wave

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

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24$$

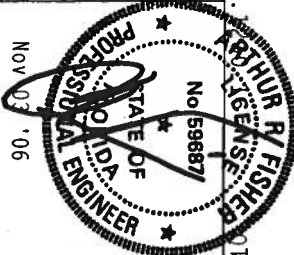
QTY:1 FL/-/4/-/-/R/-

Scale = .375"/Ft.

\*WARNING\* - TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DC-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD ROSS CONSULT), 6300 ENTERPRISE LANE, MADISON, VA, 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 Engineered Products, Inc.  
1950 Marley Drive

114455 City, IL 5584  
zation #



TC LL	20.0 PSF	REF	R487 - - 63869
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307039
BC LL	0.0 PSF	HC-ENG	DAL/AF *
TOT.LD.	40.0 PSF	SEQN-	134877
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T20487_201

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

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

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

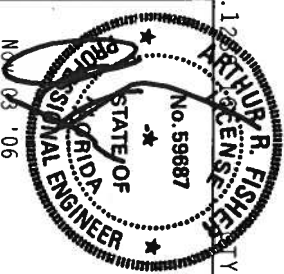


Scale = .5"/Ft.

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

**Alpine Engineered Products, Inc.**

1950 Marley Drive  
Haines City, FL 33844



TC LL	20.0 PSF	REF	R487 - - 63870
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307009
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	135653
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T20487 Z01



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

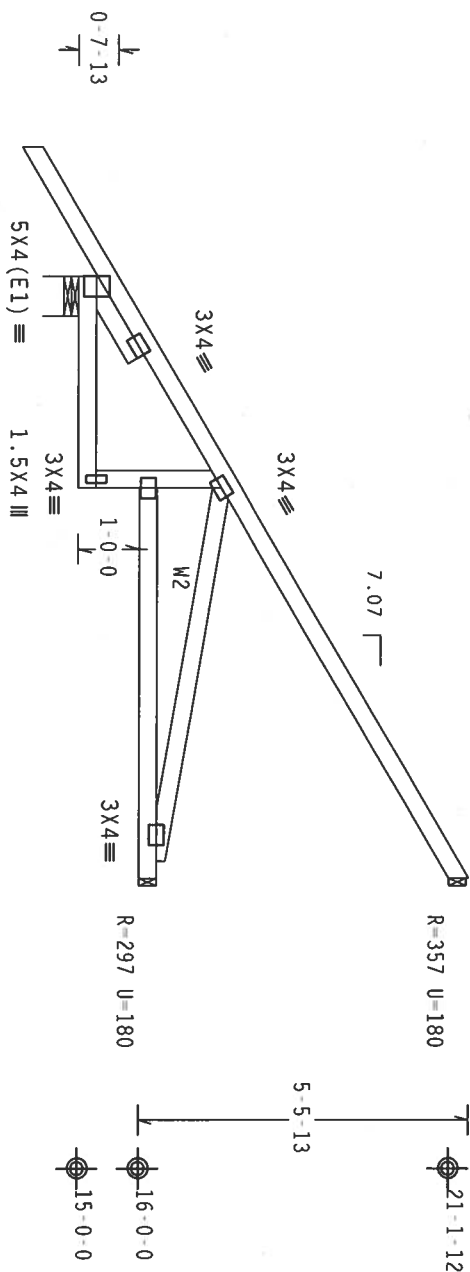
110 mph wind, 17.94 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

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

Provide ( 3 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.

Provide ( 3 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



↳ 2-1-7-7

3-5-12 6-5-1  
9-10-13 Over 3 Supports  
R=477 U=180 W=7.778"

Design Crit: TPI-2002(STD)/FBC

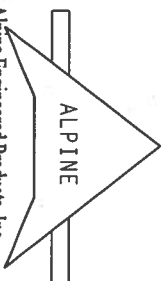
 $C_q/RT=1.00(1.25)/10(0)$ 

7.24.

THE UNIVERSITY OF CHICAGO

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

Scale = .3125"/Ft.



Alpine Engineered Products, Inc.

**WARNING\*\***  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI TRUSS PLAN INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300  
 ENTERPRISE LANE, MOISTON, MI 53119 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

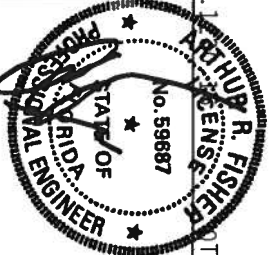
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI

CONNECTOR PLATES ARE MADE OF 20/18/16GA (M.H/SS/K) ASTM A653 GRADE 40/60 (M. K/H.SS) 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 TP11-2002 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/HP1 1 SEC. 2.



FL/-/4/-/-/R/-		Scale = .3125"/Ft.	
TC LL	20.0 PSF	REF	R487 - 63872
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307040
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135135
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T20487_201



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Weds 2x4 SP #2 Dense :W2 2x4 SP #3:  
:Lt Studded Wedge 2x6 SP #2:

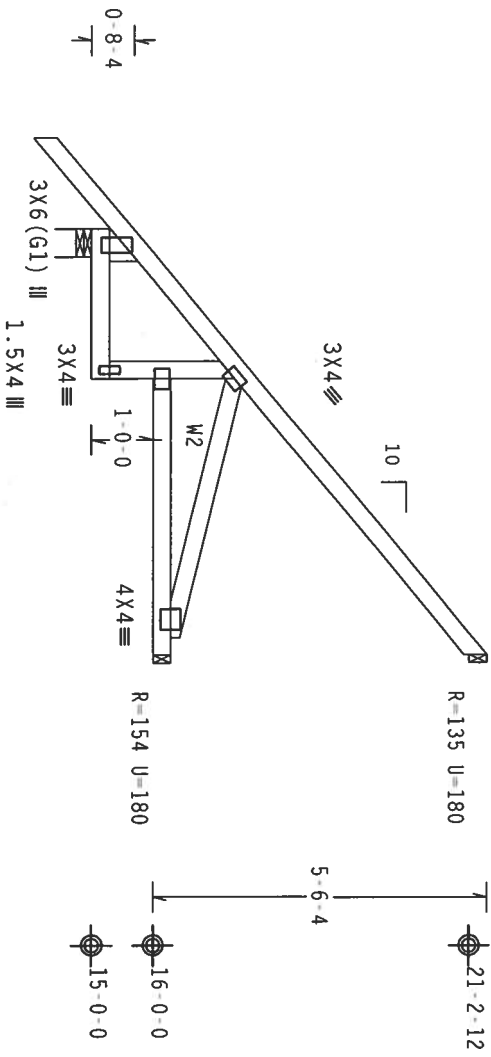
In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.

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

110 mph wind, 17.98 ft mean hgt. ASCE 7-02, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

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



2-5-8  
7-0-0 Over 3 Supports  
R-419 U=180 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

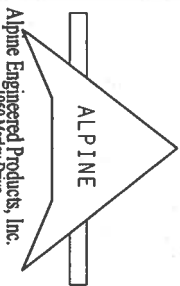
FL/-/4/-/R/-

Scale = .3125"/ft.

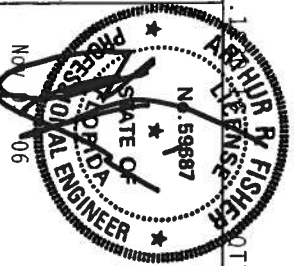
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO TPI-2002(STD) FOR TRUSS CONSTRUCTION DETAILS. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND WICHAHOO TRUSS COMPANY, 6300 ENTERPRISE LANE, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI-2002(STD). ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/155/K) ASTM A653 GRADE 40/60 (W, K/155) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A.2.

ALPINE ENGINEERED PRODUCTS, INC. SHALL BE THE ENGINEER OF RECORD FOR THIS DESIGN. A SEAL ON THIS DRAWING INDICATES THE PROFESSIONAL DESIGNER'S SIGNATURE 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.  
1990 Marley Drive  
Haines City, FL 33844  
Certification #



TC LL	20.0 PSF	REF	R487 - - 63874
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307042
BC LL	0.0 PSF	HC-ENG	DAL/AF *
TOT.LD.	40.0 PSF	SEQN-	135065
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Wind reactions based on MWFRS pressures.

110 mph wind, 17.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



PLT TYP. Wave

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

7.24.7

TY:1

FL/4/R/

Scale = .3125" / Ft.

\*\*\*WARNING\*\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO BC61 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, TRUSS PLAN INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WITH CHORD BRASS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMING WITH ABOVE LISTED PROVISIONS OF UBC, IBC, ASCE, AISC, ACI, AND ALL OTHER APPLICABLE CODES SHALL BE THE RESPONSIBILITY OF THE USER OF THIS DESIGN.

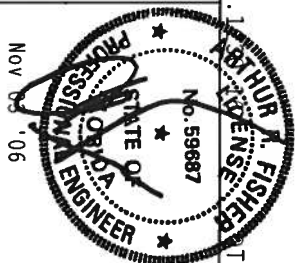
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC, BY AIAA) AND IP1. ALPINE

CONNECTOR PLATES ARE MADE OF 201/18/166A (W.H.55/X) ASTM A563 GRADE 40/60 (W. K.H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

Alpine Engineered Products, Inc.

1930 Manley Drive  
Haines City, FL 33844

ization #



TC LL	20.0 PSF	REF	R487 - 63875
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCSR487 06307043
BC LL	0.0 PSF	HC-ENG	DAL/AF *
TOT.LD.	40.0 PSF	SEQN-	135057
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Weds 2x4 SP #3  
: Lt Studded Wedge 2x6 SP #2:

Calculated horizontal deflection is 0.27" due to live load and 0.14" due to dead load.

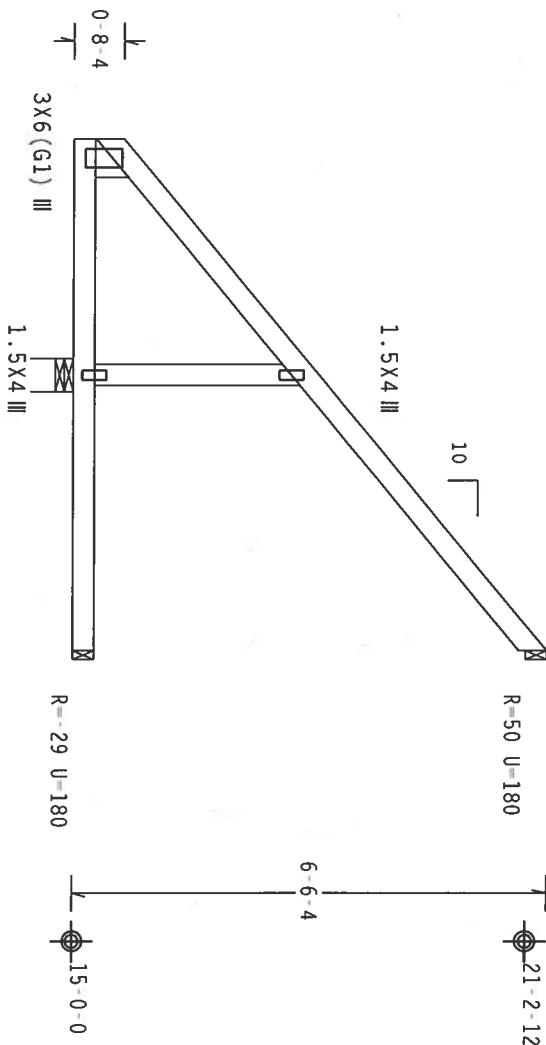
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 18.60 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

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

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



3-0-0  
7-0-0 Over 3 Supports  
R=581 U=180 W=5.5"

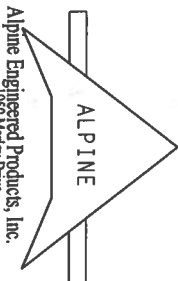
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

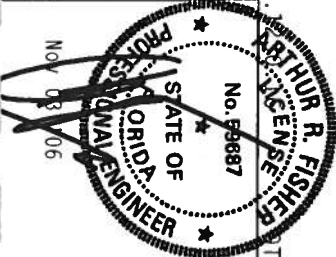
Cq/RT=1.00(1.25)/10(0) 7.24

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY) INFORMATION, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WOOD TRUSS CONSTRUCTION, 6508 ENTERPRISE LANE, 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 ASEP) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/16GA (W/H/SS/Y) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. PLANES OF CONNECTION PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE DESIGN HAS BEEN REVIEWED BY A PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.  
Haines City, FL 33844  
1950 Marley Drive  
Certificate # 773



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

Scale = .375"/ft.

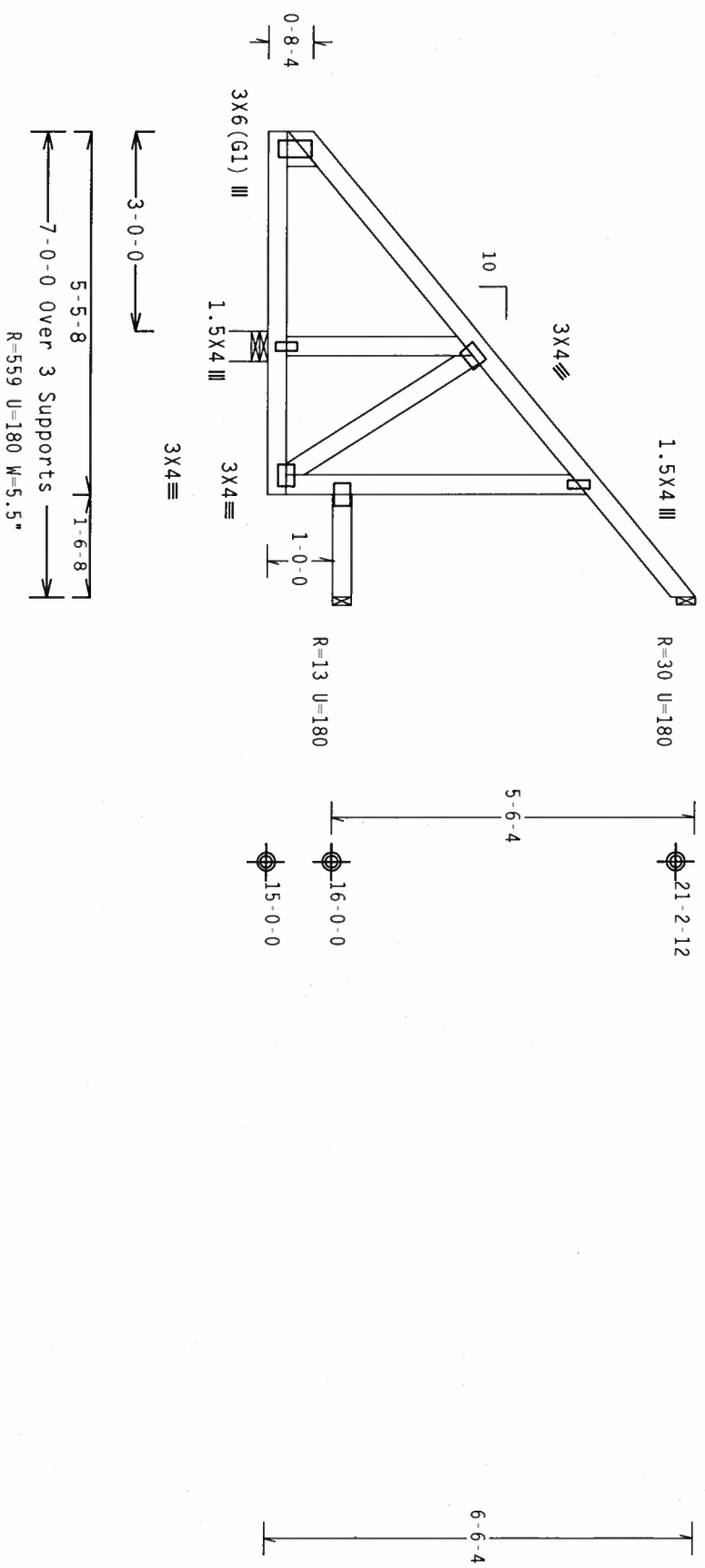
TC LL	20.0 PSF	REF	R487-- 63876
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCSR487 06307044
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT. LD.	40.0 PSF	SEQN-	135071
DUR. FAC.	1.25		
SPACING	24.0"	JRFF-	1T20487_201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:lt Studded Wedge 2x6 SP #2:

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

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

110 mph wind, 18.60 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Wind reactions based on MMFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

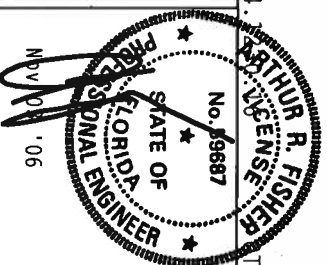
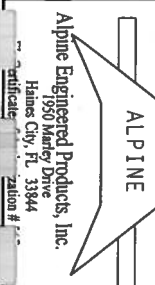
7.24

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

Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304. (703) 591-1000. ENTERPRISE LANE, MOJIBON, MI 53719. FOR SAFETY PRACTICES PRIOR TO PREPARING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/19/16GA (W/V/S/Y) ASTM A653 GRADE 40/60 (W, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUFFICIENCY OF USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/791 SEC. 2.



TC LL	20.0 PSF	REF R487 - 63877
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307045
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN- 135077
DUR.FAC.	1.25	
SPACING	24.0"	

JRFF- 1T20487\_201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Lt Studded Wedge 2x6 SP #2:

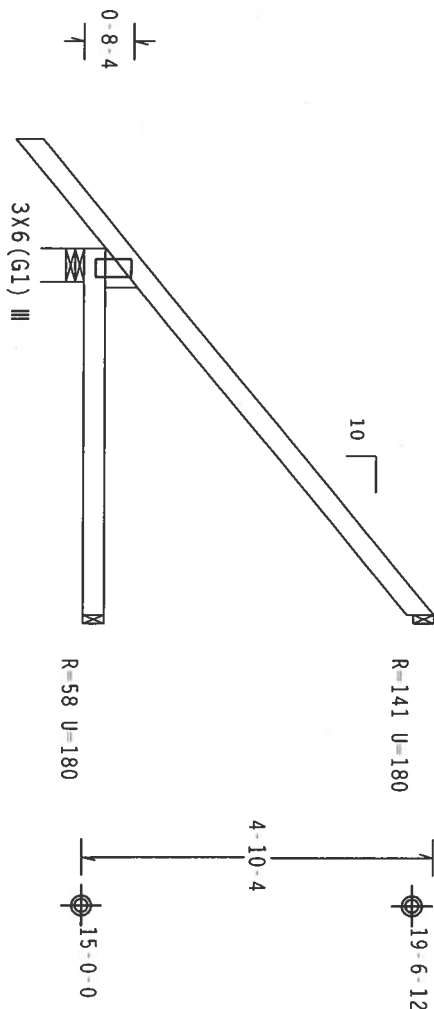
Wind reactions based on MWFRS pressures.

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

110 mph wind, 17.15 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



1-6-0

5-0-0 Over 3 Supports  
R=338 U=180 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

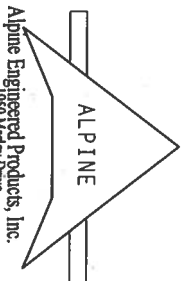
7.24.12

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

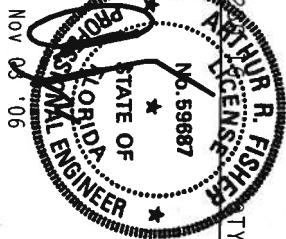
Scale =.375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, 1200 LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WPCA (WOOD TRUSS CONSTRUCTION OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/160A (W/MS/YS) ASTM A653 GRADE 40/60 (K, K/H, S5) GALV. STEEL. APPLY PLATES EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. PLATE SPECIFICATIONS PLACED ON THE PROFESSIONAL SEAL, ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Certificate # 73



TC LL	20.0 PSF	REF	R487--	63878
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307046
BC LL	0.0 PSF	HC-ENG	DAL/AF	*
TOT. LD.	40.0 PSF	SEQN-	135146	
DUR. FAC.	1.25			
SPACING	24.0"	URFF-	1T20487_201	

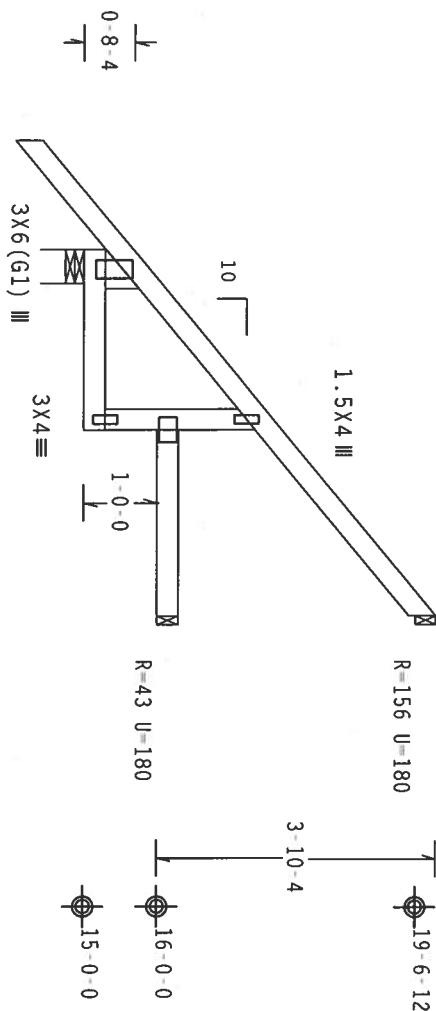
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 17.15 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

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



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

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

7.24.12

FL/4/4/R/

Scale = .375" / Ft.

\*\*WARNING\*\*  
 BUILDERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 TO PREVENT DAMAGE TO THE BUILDING COMPONENTS (SEE INFORMATION). PUBLISHED BY TPI (TRESS PASTE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD CROSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MOISTON, VA, 52179) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMANCE WITH TPI: SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC. BY AASHTO) AND TPI CONNECTOR PLATES ARE MADE OF 20/18/16GA (44 M/55/K) ASTM A563 GRADE 40/60 (44 K/55 CS) CARB


PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 1604-2 CONNECTION TECHNIQUE SHALL BE AS FOLLOWS: 20/10/1000 (W. 11/33/K) 431H 4055 GRADE 40/50 (W. 11/33) GALV. STEEL. APPLI

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 SEC.3 A SEAL ON THIS

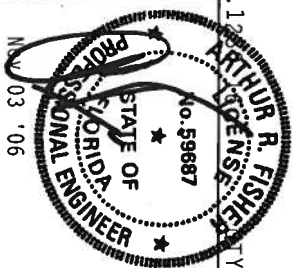
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

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 Maple Drive  
Haines City, FL 33844



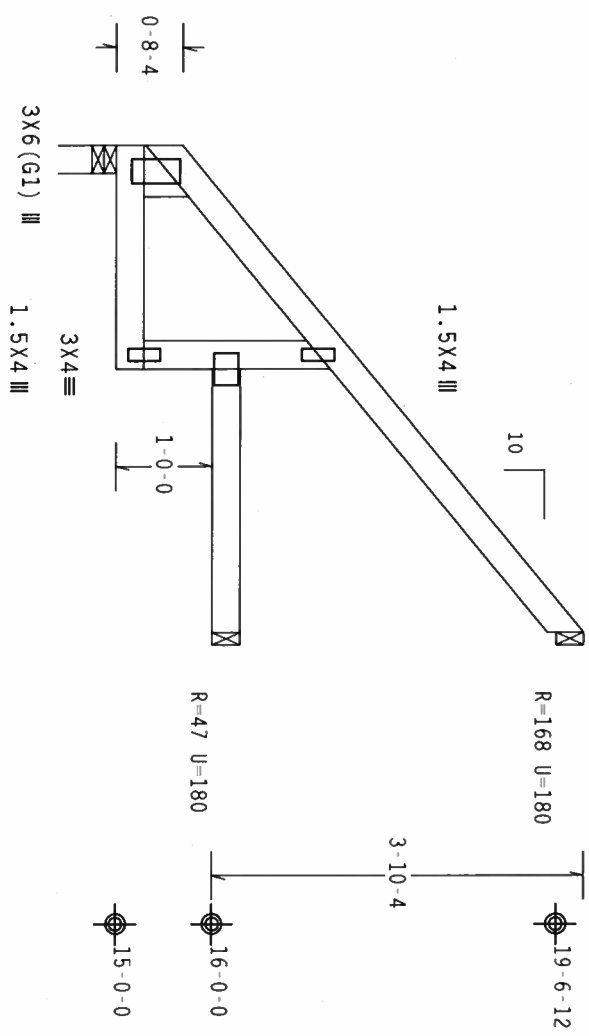
FL/-4/-/-R/-		Scale = .375"/ft.	
TC LL	20.0 PSF	REF	R487 - 63879
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCSR487 06307047
BC LL	0.0 PSF	HC-ENG	DAL/AF *
TOT.LD.	40.0 PSF	SEQN -	135084
DUR.FAC.	1.25		
SPACING	24.0"	URFF -	1T20487_201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:lt Stubby Wedge 2x6 SP #2:

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

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

110 mph wind, 17.77 ft mean hgt, ASCE 7-02, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf.  
Wind reactions based on MMFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.



2-3-8 2-8-8  
5-0-0 Over 3 Supports  
R=215 U=180 W=3.5"

PLT TYP. Wave

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

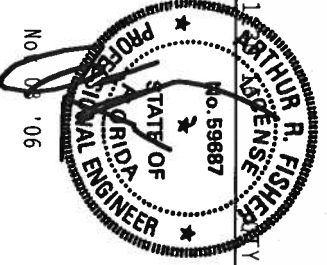
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING.  
REFER TO DETAIL. (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218  
ENTERPRISE LANE, MOBILE, AL 36688) FOR SAFETY PRACTICES PRIOR TO FABRICATING TRUSSES.  
OTHERWISE INDICATED FOR 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 NOS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/N) ASTM A653 GRADE 40/60 (W, K/H/55) 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

Alpine Engineered Products, Inc.  
Haines City, FL 33844

Station #



TC LL	20.0 PSF	REF R487 - 63880
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307048
BC LL	0.0 PSF	HC-ENG DAL/AF *
TOT.LD.	40.0 PSF	SEQN- 135090
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_201

Scale = .5"/ft.

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Lt Studded Wedge 2x6 SP #2:

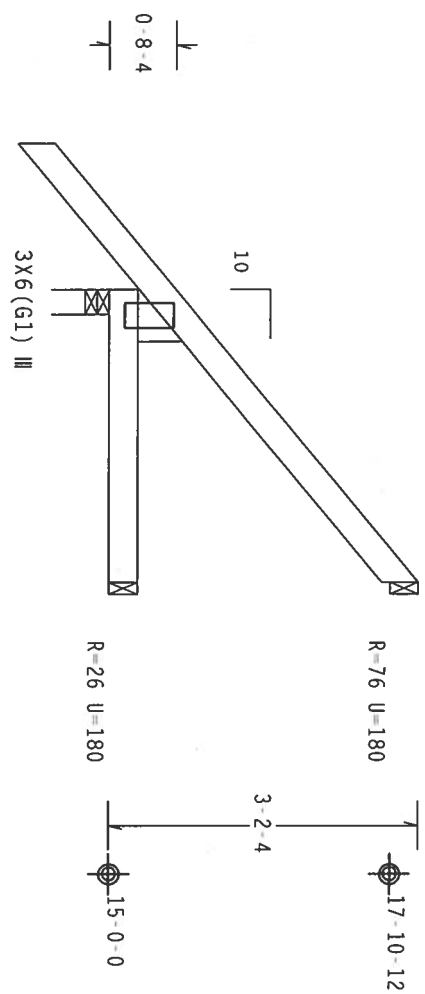
Wind reactions based on MWFRS pressures.

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

110 mph wind, 16.31 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



1-6-0

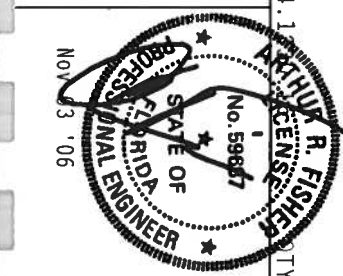
3-0-0 Over 3 Supports  
R-263 U=180 W=3"

PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF BUILDING TRUSSES IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (AISC 360) AND AISC 360 (AISC 360) AND TPI1. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W, K/H, S/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 AS OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI1 1 SEC. 2.

**ALPINE**  
Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone # 888-333-3333  
Fax # 888-333-3333



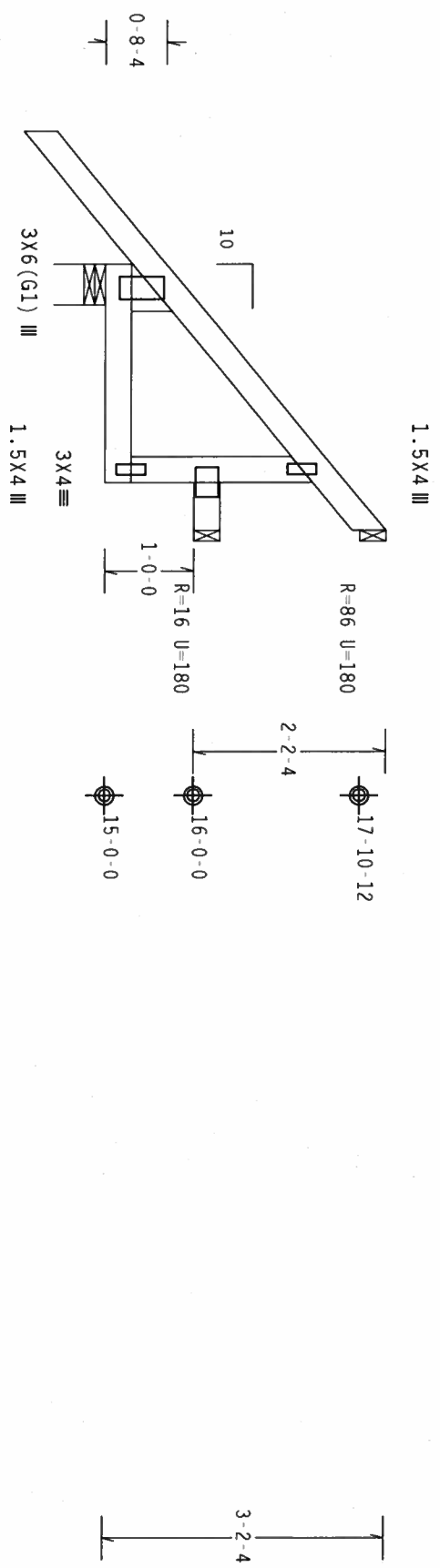
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TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307049
BC LL	0.0 PSF	HC-ENG DAL/AF *
TOT.LD.	40.0 PSF	SEQN- 135141
DUR.FAC.	1.25	
SPACING	24.0"	
URFF	1T20487_Z01	

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:lt Stubbcd Wedge 2x6 SP #2:

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

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

110 mph wind, 16.31 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0  
psf.  
Wind reactions based on MWFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

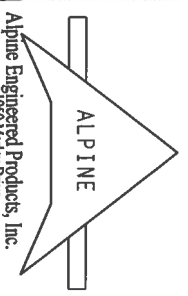


2-5-8  
3-0-0 Over 3 Supports  
R=263 U=180 W=5.5"

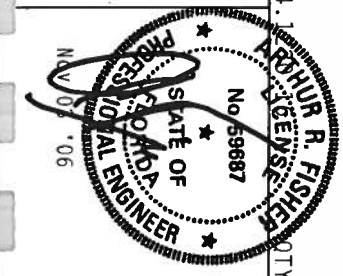
PLT TYP. Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BCST (000) FOR TRUSS MANUFACTURING INSTRUCTIONS. (TRUSS PLATE INSTITUTE, 218  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND LITTON, CO 80120). UNLESS  
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PREPARING THESE FUNCTIONS.  
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ALPINE  
CONNECTOR PLATES ARE MADE OF 2018/166A (W/H/55/Y) ASTM A653 GRADE 40/60 (W, K/H/55) 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 TPI1, 2002 SEC.3. A SEAL ON THIS  
DRAWING 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 Engineered Products, Inc.  
1650 Marley Drive  
Haines City, FL 33844  
Toll Free 1-800-333-3333  
Fax 888-333-3333



TC LL	20.0 PSF	REF	R487-- 63882
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307050
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135095
DUR.FAC.	1.25		
SPACING	24.0"		

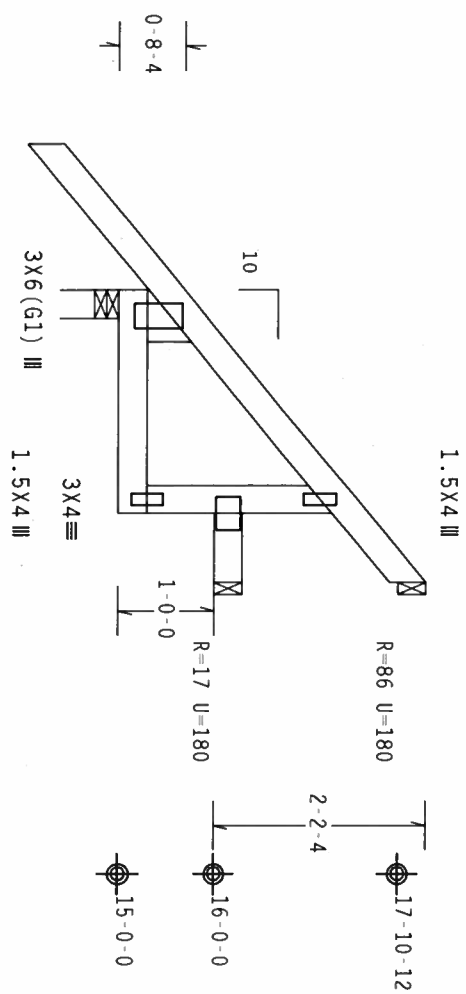
Scale =.5"/ft.

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
: Lt Stubbcd Wedge 2x6 SP #2:

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

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

110 mph wind, 16.31 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Wind reactions based on MWFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



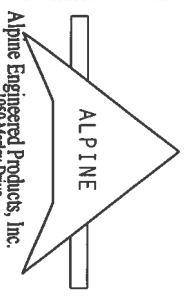
2-3-8  
3-0-0 Over 3 Supports  
R=263 U=180 W=3.5"

PLT TYP. Wave

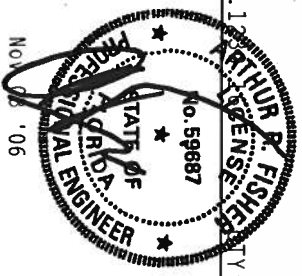
Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) FOR THE LATEST EDITIONS OF THE TRUSS MANUFACTURER'S DESIGN GUIDE. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, MI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (W/N/S/S) ASTM A563 GRADE 40/60 (W, K/N,SS) 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 AMEX AS OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SIGNATURE OF A PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Attention # 77



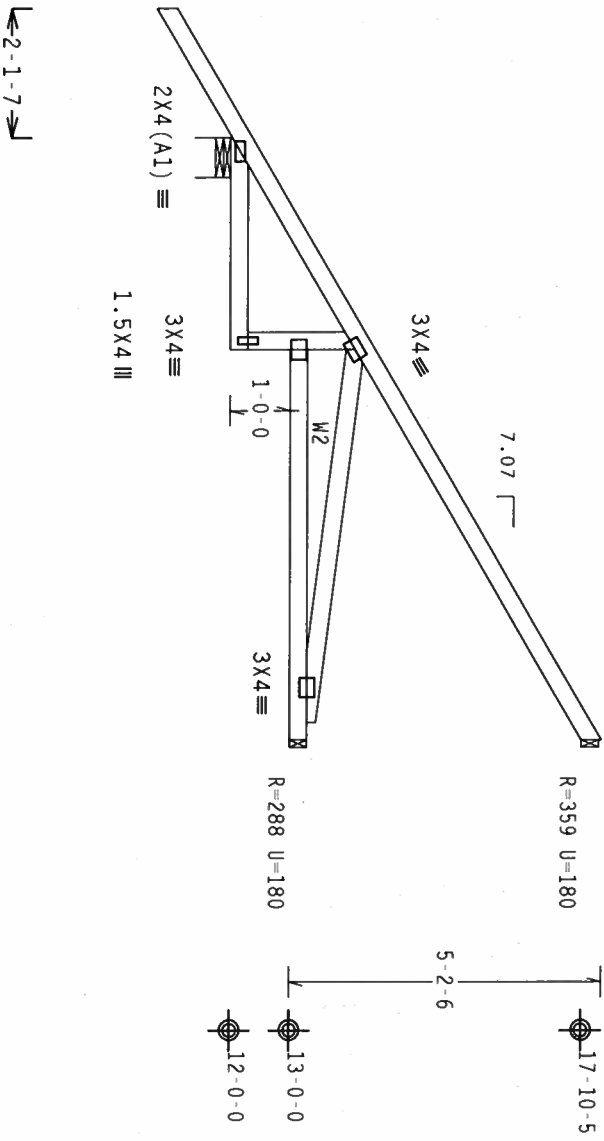
TC LL	20.0 PSF	REF R487-- 63883
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307051
BC LL	0.0 PSF	HC-ENG DAL/AF *
TOT.LD.	40.0 PSF	SEQN- 135100
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T20487_201

Scale =.5"/ft.



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #2 Dense : W2 2x4 SP #3:  
Wind reactions based on MWFRS pressures.  
Hipjack supports 7-0-0 setback jacks with no webs.  
Provide ( 3 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



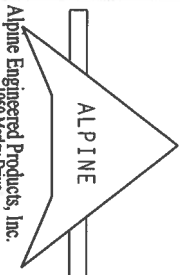
3-5-12 6-5-1  
9-10-13 over 3 Supports  
R=484 U=180 W=7.778

PLT TYP. Wave

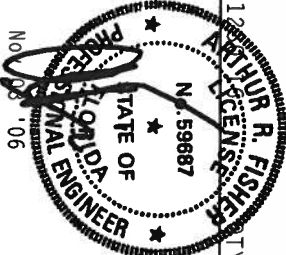
Design Cmt: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.12

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI (CONSTRUCTION) FOR TRUSS DESIGN. TRUSS DESIGN INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304. AND WOOD TRUSS INSTITUTE, 100 ENTERPRISE LANE, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 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 DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/X) ASTM A653 GRADE 40/60 (W, K/H/55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1590 Marley Drive  
Haines City, FL 33844  
Certificate #



TC LL	20.0 PSF	REF	R487 - 63885
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307053
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN	134970
DUR.FAC.	1.25		
SPACING	24.0"		

Scale = .3125"/Ft.

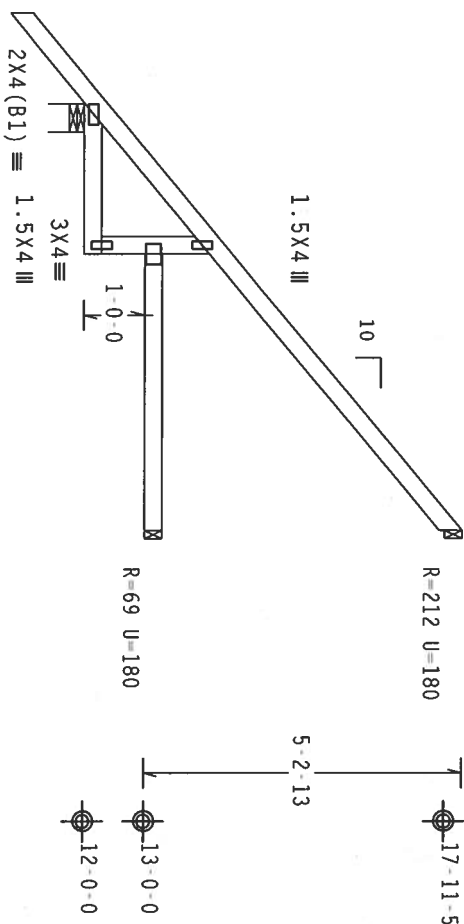
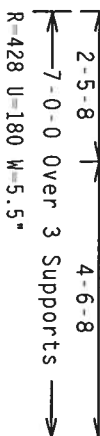
IRFF- 1T20487\_201

Wind reactions based on MWFRS pressures.

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

Calculated horizontal deflection is 0.14" due to live load and 0.23" due to dead load.

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

 $\gamma_{0.9-1}$ 

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24$$

FL/4/-/-/R/-

Scale = .3125"/Ft.

\*\*\*WARNING\*\*\* THESE REQUIRE EXTREME CARE IN PARTICIPATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC91 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, (TPI PRESS INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD JOINTS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MAJORS, IN 52719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

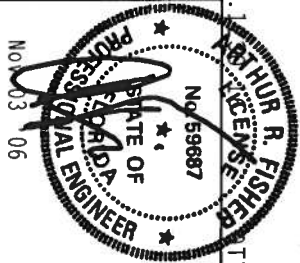
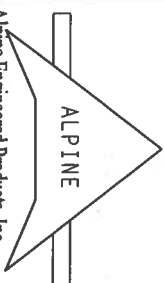
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAIL FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE DESIGN COMPANY, 1275 N. 10TH ST., SUITE 100, DENVER, CO 80202

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS CONNECTION PLATES SHALL BE MADE OF 20/18/1066 (M./MSS/K)S18 A653 GRADE 40/60 (M./K.H./55) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITIONING PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE 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



TC LL	20.0 PSF	REF	R487 - 63886
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307054
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	134943
DUR.FAC.	1.25		
SPACING	24.0"	IRFF -	1T20487 201

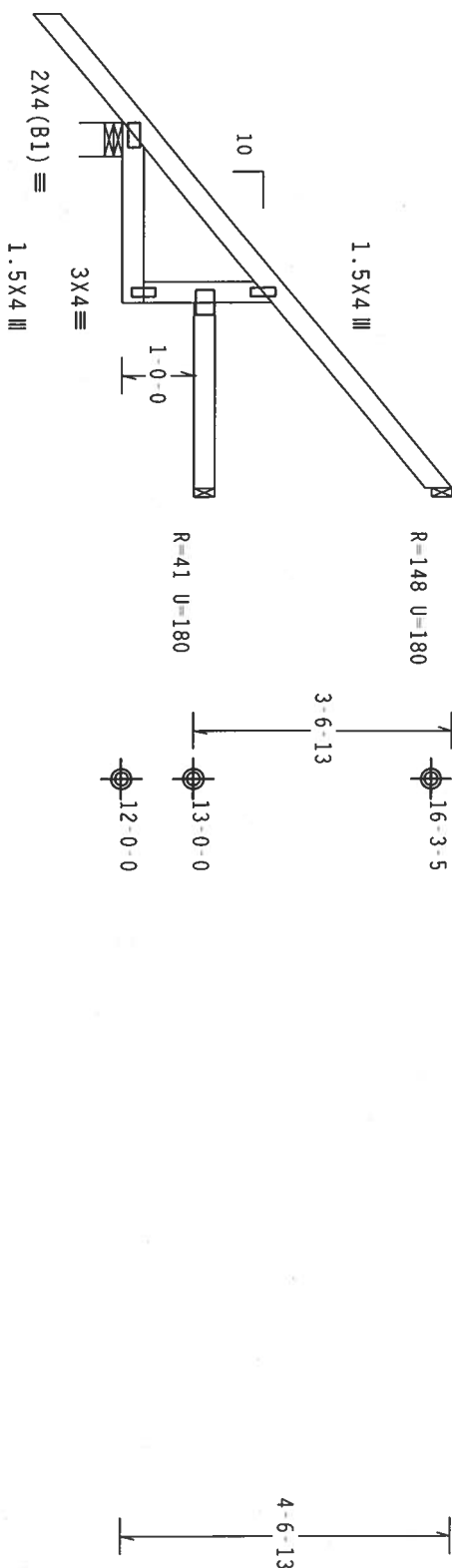
Wind reactions based on MMFRS pressures.

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

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

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

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



LE 1-6-0

2-5-8      2-6-8  
 ↳ 5-0-0 Over 3 Supports ↳  
 R=348 U=180 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24$$

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

Scale = .375" / Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING.  
 REFER TO GC#1 (BUILDING COMPONENT SPECIFICATIONS), PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AISC (AMERICAN INSTITUTE OF STEEL CON-  
 STRUCTORS), INC., 500 N. MICHIGAN, SUITE 1000, CHICAGO, IL 60610, FOR SPECIFICATIONS TO THE AISC  
 ENTERPRISE LAM, 4010/S01, 1/ 5/79 FOR SAFE PRACTICES PRIOR TO PERFORM THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

**\*\*\* IMPORTANT \*\*\***

FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE

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 TP11-2002 SEC.3. A SEAL ON THIS

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

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

1000

Alpine Engineered Products, Inc.  
1050 McLean Drive

1950 Marley Drive  
Hill Country, TX 78644

Haines City, FL 33844

**Certification #**

[illegible]

Professional Engineer Seal for Richard R. Fisher, State of Florida, No. E9687, dated Nov 03 '06.

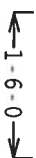
1 FL/-/4/-/-R/-		Scale = .375"/Ft.	
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TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUR487 06307055
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	134948
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T70487_Z01

Wind reactions based on MWFRS pressures.

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

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

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



PLT TYP.: Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

15H

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

Scale = .5"/Ft.

\*\*\*WARNING\*\*\* THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

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

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

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W. H/SS/K) ASTM A653 GRADE 40/60 (W. K/H.SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND LINESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 1604.2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TR11-2002 SEC 3 A SEAL ON THIS PLATES TO EACH FACE OF CROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 SEC.3. A SEAL ON THIS

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

**Certificate of Registration**

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 69687, dated Nov 03 106.

FL/-/4/-/-/R/-		Scale = .5" / Ft.	
TC LL	20.0 PSF	REF	R487 - - 63888
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307056
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	134953
DUR.FAC.	1.25		
SPACING	24.0"	DRFF -	1T20487_201

110 mph wind, 15.32 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

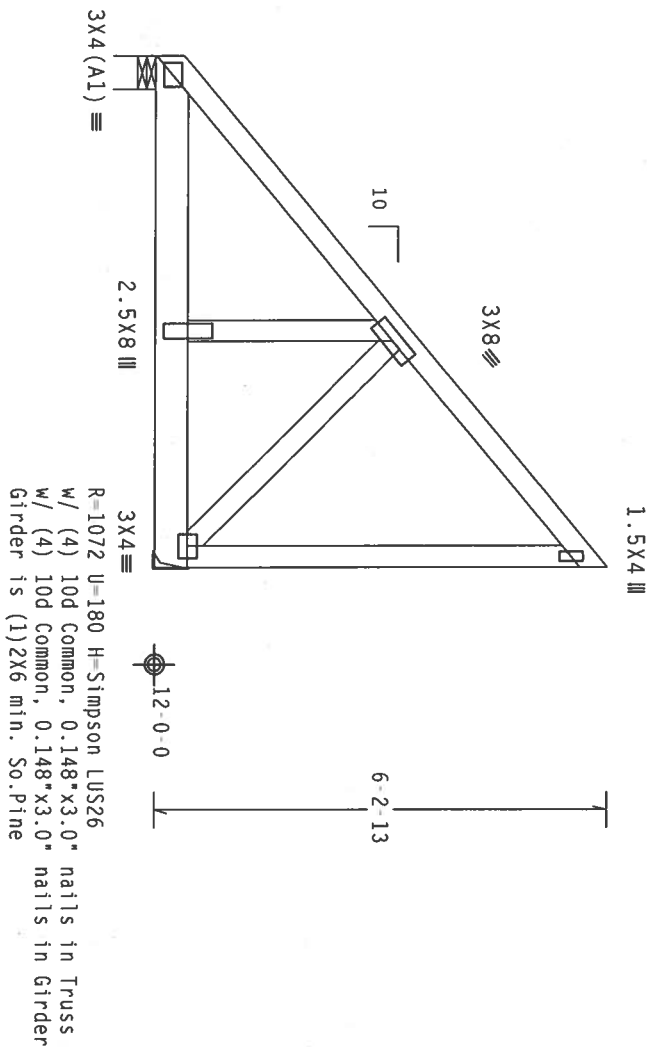
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

TC	From	66 PLF at 0.00 to	66 PLF at 7.00
BC	From	20 PLF at 0.00 to	20 PLF at 7.00
BC	609 LB Conc.	Load at 1.06,	3.06, 5.06

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

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



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

Cq/RT=1.00(1.25)/10(0) 7.24.12

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

Scale = .375"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 BUILDERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 OF THIS BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD JOINTS COUNCIL OF AMERICA), 6300  
 ENTERPRISE LANE, MANASSAS, VA, 20108 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

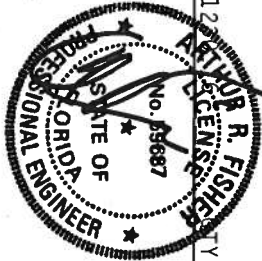
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING DESIGNER PLATES ARE MADE OF POLYESTER FILLS WITH STEEL SHEETS

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

**DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY**

Alpine Engineered Products, Inc.

Gaines City, FL 33644  
Certification



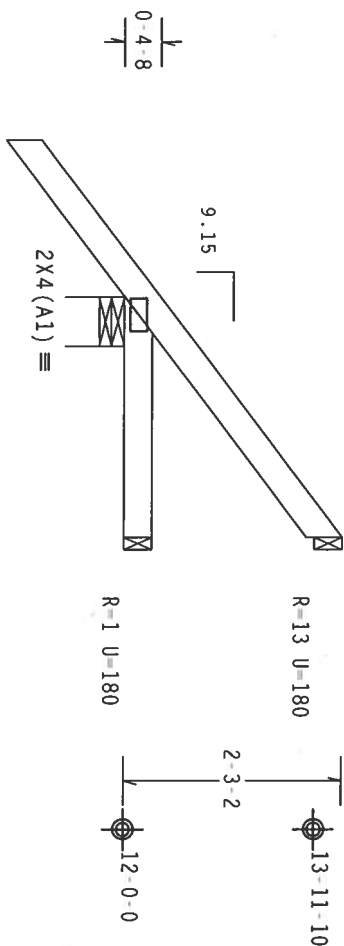
FL/-/4/-/-/R/-		Scale = .375"/Ft.
TC LL	20.0 PSF	REF R487 - - 63889
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUR487 06307057
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN - 134938
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T20487_201

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

Hipjack supports 1-8-15 setback jacks with no webs.

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

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



1-7-5

2-5-10 Over 3 Supports  
R=103 U=180 W=6.011"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

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

Scale = .5" / Ft.

\*\*WARNING\*\*  
 REQUIRES RECURRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO GC#1 (BUILDING COMPONENT SPECIFIC INFORMATION), PUBLISHED BY TPI (TRUSS PACE INSTITUTE), 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), 5300  
 ENTERPRISE LANE, MOISTON, IL 62451 FOR SPECIFIC PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 A PROPERLY ATTACHED RIGID CEILING.


**\*\* IMPORTANT \*\***

FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF GALVALUME<sup>®</sup> ALUMINUM COATED STEEL.

CONNECTION PLATES MADE OF 20Y18/070 (K1518) IN ASS. GRADE: 40/60 (M. K/H. 55) 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 TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR THE PROSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

**\*IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN COMPLAINTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. APPLY TO PLAYERS TO EACH CASE OF TRUSS ORDER #160879 (H/S/S) ASH RAISED GRADE, 40/60 (R/W 55) GALV. STEEL. APPLY TO ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA 40'S OR TPI 2002 SEC. 16.04.2. DRAMING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 59687, dated 03/06.

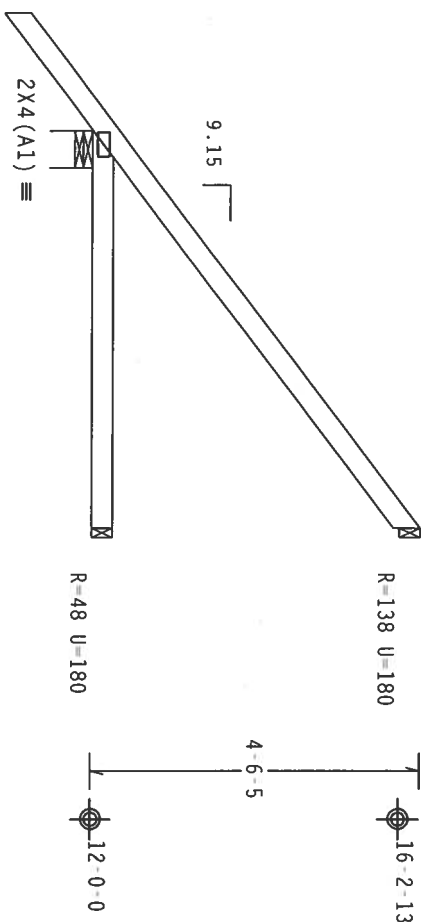
FL/-4/-1/-R/-		Scale =.5"/Ft.	
TC LL	20.0 PSF	REF	R487-- 63890
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCSUR487 06307058
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEON-	134909
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_Z01

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

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

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

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



1-7-6

←5-5-4 Over 3 Supports →  
R=186 U=180 W=6.011"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$\frac{Cq}{RT} = 1.00(1.25)/10(0) \quad 7.24$$

7.24

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

Scale = .375" / Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 BUILDERS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO GC'S (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI, (TRUSS PANE INSTITUTE), 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AISC (WOOD JOINTS COMMITTEE OF AMERICA), 6500  
 ENTERPRISE LANE, MAJLSON, W/ 53179 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE

CONNECTION PLATES ARE MADE OF 20/18/16GA (M.4/H33/KR/518M A653 GRADE 40/50 (M.4/H/55) 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 TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROGRESSIVE ENGINEERING APPROVAL FOR THE TRUSS.

DRAWING AND/OR SITE. THE ACCEPTANCE OF PROFESSIONAL, ENGINEERING RESPONSIBILITY SOLELY FOR THE GROSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/PCI SEC. 2.

**Alpine Engineered Products, Inc.**

1950 Manley Drive  
Haines City, FL 33844  
Certification

Nov 03 '06

FL/-/4/-/-/R/-		Scale = .375"/ft.
TC LL	20.0 PSF	REF R487-- 63891
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCURS487 06307059
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEON- 134912
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T20487_Z01

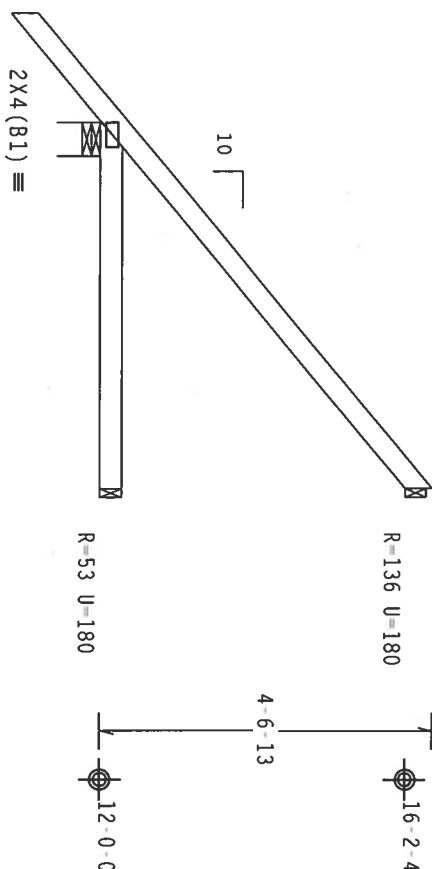
Wind reactions based on MWFRS pressures.

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

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

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

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



W 0-9-0 1-6-0

5-0-0 Over 3 Supports  $\Rightarrow$   
 $R=348$   $U=180$   $W=5.5"$

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

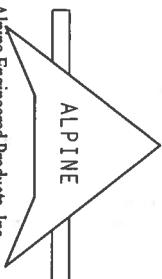
7.24.1

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

Scale = .375" / Ft.

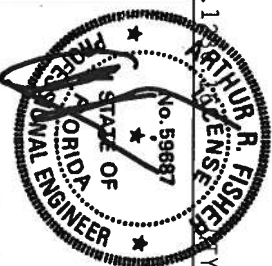
\*\*\*WARNING\*\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PAPER INSTITUTE), 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICA (WOOD ROSS COUNCIL OF AMERICA), 6300  
 ENTERPRISE LANE, MANASSAS, VA 51319 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

\* \* \* 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. FAILURE TO FOLLOW THE DESIGN SHALL BE AT THE USER'S RISK. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL BUILDING CODE SPEC. BY AIA 901.1 AND THE NATIONAL CONNECTION PLATES ARE MADE OF 2018/1664 (A16/HS/22) ASTM A563 GRADE 40/60 (K 2/1/55) GALV. STEEL. APPLY 1604.2 PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S REVIEW FOR THE PROJECT. THE USER SHALL OBTAIN THIS DESIGN SHOWN. THE SATISFACTION 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.  
1050 Main Drive  
Boulder, CO 80501  
303.440.1000  
www.alpineeng.com

Haines City, FL 33844  
Certificate of Registration



FL/-/4/-/-/R/-		Scale = .375"/Ft.
TC LL	20.0 PSF	REF R487 - - 63892
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUR487 06307060
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN - 134906
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T20487_201

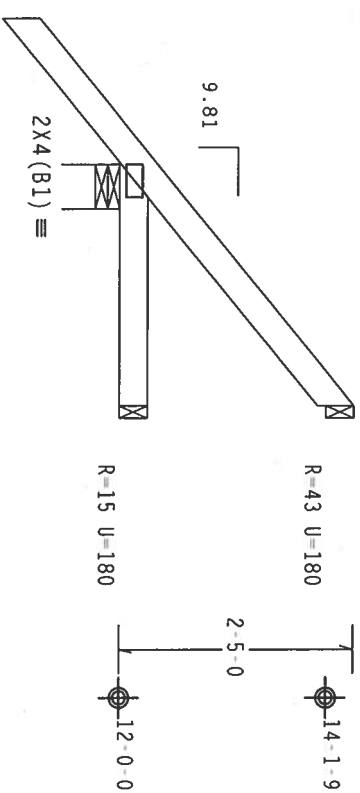
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-6-0

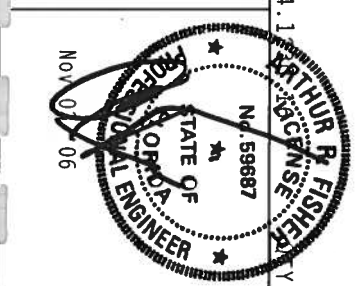
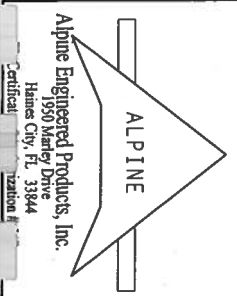
2-5-11 Over 3 Supports  
R=260 U=180 W=5.5"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 31, WILMINGTON, DE 19801. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI-2002. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. DRAMA INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN. THE SEAL IS VALID FOR THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A OF TPI-2002 SEC.3.



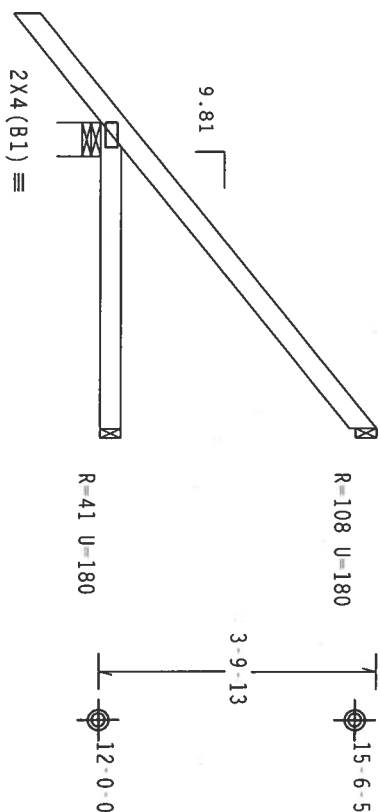
TC LL	20.0 PSF	REF	R487-- 63893
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307061
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	134901
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T20487_201

Scale =.5"/Ft.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



LEI-607

4-2-3 Over 3 Supports  
R=316 U=180 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

FL/4/-/-/R/-

Scale = .375" / Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRILLING  
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IP1 (TRUSS PAPER INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND VICA (WOOD ROSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MOISTON, VA 53139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIDGE CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFLICTING WITH ANY OTHER REQUIREMENTS OF THIS SPECIFICATION SHALL BE THE RESPONSIBILITY OF THE USER.

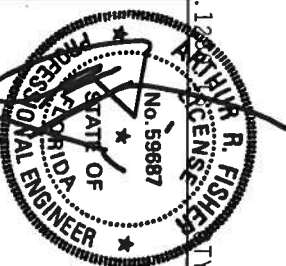
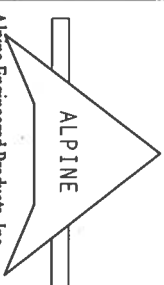
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AASDPA) AND TPI.

CONNECTOR PLATES ARE MADE OF 20/10/16GA (W. H. 55/K) ASTM A653 GRADE 40/60 (W. K/H. 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRIIRS 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 TPII-2002 SEC.3. A SEAL ON THIS

Alpine Engineered Products, Inc

1950 Marley Drive  
Haines City, FL 33844

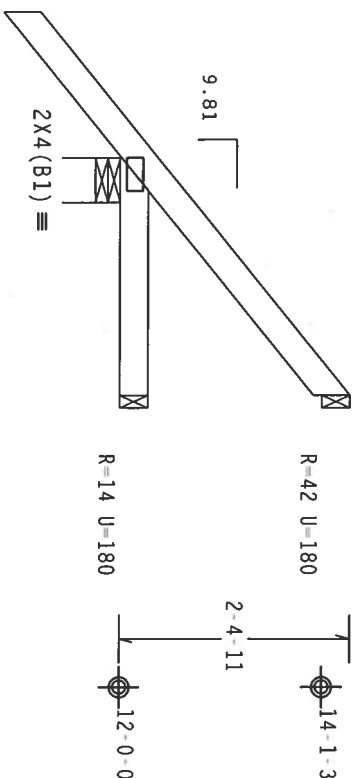


1 FL/-/4/-/-/R/-		Scale = .375"/Ft.
TC LL	20.0 PSF	REF R487 - 63894
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307062
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN - 134899
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T20487.201

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

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

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



1-6-0

2-5-4 Over 3 Supports  
R=259 U=180 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

FL/4/R/

Scale = .5"/Ft.

\*\*\*WARNING\*\*\*  
BUILDS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING  
REFER TO DC31 (TENSILE COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, TRUSS PLAN, INSTITUTE, 218  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND NCA (WOOD JOINTS COUNCIL OF AMERICA, 6300  
ENTERPRISE LANE, MAJESON, VA 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMANCE WITH APPLICABLE SPECIFICATIONS OR ANY OTHER SPECIAL ORDER OR REVISIONS, AND THE USE OF

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

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


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

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

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

DESIGNATION PER ANSI/SPRI 1 SEC. 2.

100



Alpine Engineered Products, Inc.

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

James C. May, Jr. 2004  
Artificial Intelligence #100

## Ethical ization

# I

THUR. R. FISHER  
LICENSE

No. 59687

STATE/OF

# HYBRID

11

**JANUARY**

03.06

22

1

FL/-4/-1/-R/-		Scale =.5"/ft.
TC LL	20.0 PSF	REF R487- 63895
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCU\$R487 06307063
BC LL	0.0 PSF	HC-ENG DAL/AF *
TOT.LD.	40.0 PSF	SECN- 134896
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T20487_201

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

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

Wind reactions based on MMFRS pressures.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

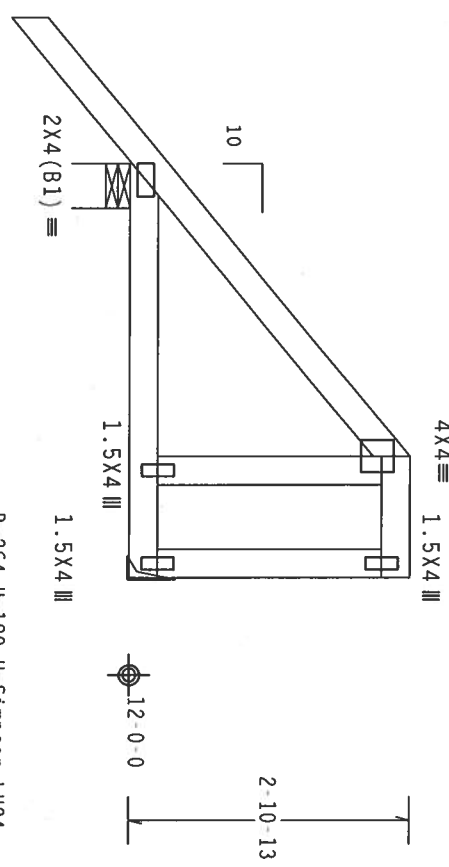
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 66 PLF at -1.50 to 66 PLF at 4.25  
BC - From 5 PLF at -1.50 to 5 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 4.25  
TC - 121 LB Conc. Load at 3.06  
BC - 35 LB Conc. Load at 3.06

Right end vertical not exposed to wind pressure.

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

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



R=264 U=180 H-Simpson LU24  
W/ (2) 10d, 0.148"x1.5" nails in Truss  
W/ (4) 10d Common, 0.148"x3.0" nails in Girder  
Girder is (1)2x6 min. So.Pine

1-6-0  
3-0-0  
1-3-0  
4-3-0 Over 2 Supports  
R=365 U=180 W=5.5"

PLT TYP. Wave

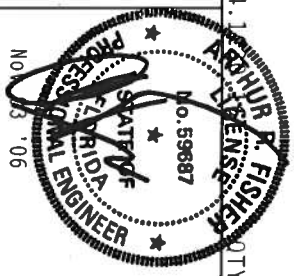
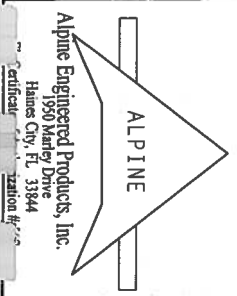
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1

Scale =.5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY) INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITH 4000 TRUSS MANUFACTURING, 1605 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PREPARING THESE TRUSSES. 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 AEPN) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/55/S) ASTM A653 GRADE 40/60 (W. K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. PLATES FROM 160A TO 160Z SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABLE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	63896
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCSR487	06307010
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT.LD.	40.0 PSF	SEQN-	135659	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1T20487_201	

Top chord 2x4 SP #2 Dense  
Bot chord 2x8 SP #1 Dense  
Webs 2x4 SP #3

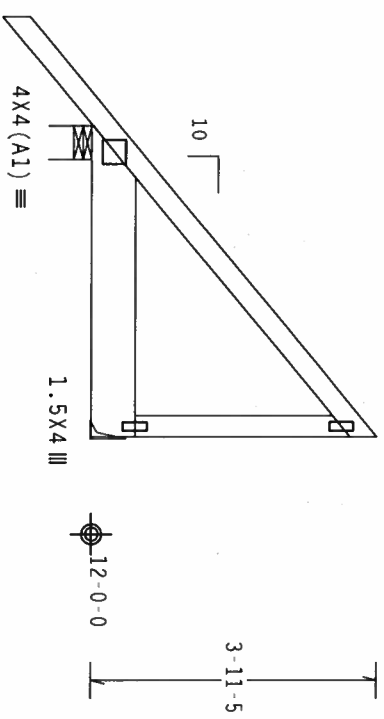
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 66 PLF at -1.50 to 66 PLF at 4.25  
BC - From 5 PLF at -1.50 to 5 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 4.25  
BC - 1360 LB Conc. Load at 2.44

Wind reactions based on MWFRS pressures.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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



R=913 U=180 H=Simpson LUS26-2  
W/ (3) 16d, 0.162"x2.5" nails in Truss  
W/ (4) 16d, 0.162"x2.5" nails in Girder  
Girder is (2)2X8 min. So.Pine

4-3-0 Over 2 Supports  
R=920 U=180 W=5.5"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI BUILDING COMPONENT SAFETY MANUAL, SECTION 10, FOR TRUSS CONSTRUCTION AND INSPECTION. 6320 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WHICH GOOD TRUSS CONSTRUCTION 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 ASEA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/1604 (W/H/SS/S) ASTM A553 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL BE PER ANNEK AS OF TPI 11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE TRUSS COMPONENT DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @5.75" 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 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Right end vertical not exposed to wind pressure.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



TC LL	20.0 PSF	REF R487-- 63897
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUR487 06307012
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN- 135741
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_Z01

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

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

Left side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang. End jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang. Right side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.



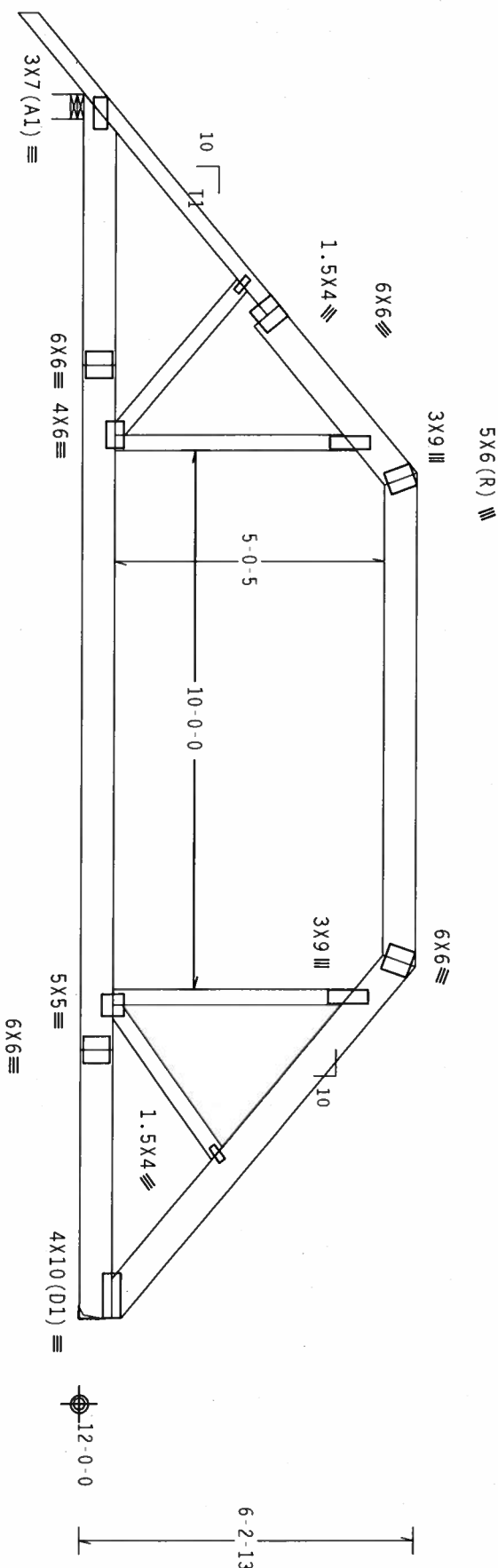
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.



✓ 0-9-17

22-8-8 Over 2 Supports  
R=1795 U=180 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.$$

PLA KENSE

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

Scale = .3125"/Ft.

\*\*WARNING\*\*  
 TSSS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TRUSS PANE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MOJOSUM, VA 53139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THE SE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR PARTICIPATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF GALVALUME® ALUMINUM COATED STEEL.

CONNECTION PLATES MADE OF 2010/1004 (M. 0.75/35) R535 IN ASS. GRADE 40/50 (M. R/H. 55) 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 TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF DEFECTS BY THE CONTRACTOR.

DRAWING INDICATES AVOIDANCE 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.**  
Haines City, FL 33844  
1950 Mainway Drive


critical  
ization #

**\* IMPORTANT:** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE DESIGN IN CONFORMANCE WITH TPI: ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. APINE

DESIGN CONFORMANCE WITH TPI: PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. APINE

TO EACH FACE OF TRUSS (20/10 / 60CS (H/S/VS)) ASYM. BARS GROUND 40/60 (P4 VEH/55) GALV. STEEL. APPLY APINE

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA 2 OR TPI 2000 SECTION 7.0 FOR TRUSSES AND 2. DRAMING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.


 ARTHUR R. FISBEIN  
 No. 59867  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 Nov 03 '06

TC LL	20.0 PSF	REF	R487--	63899
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307064
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT.LD.	40.0 PSF	SEON-	135381	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1T20487_Z01	



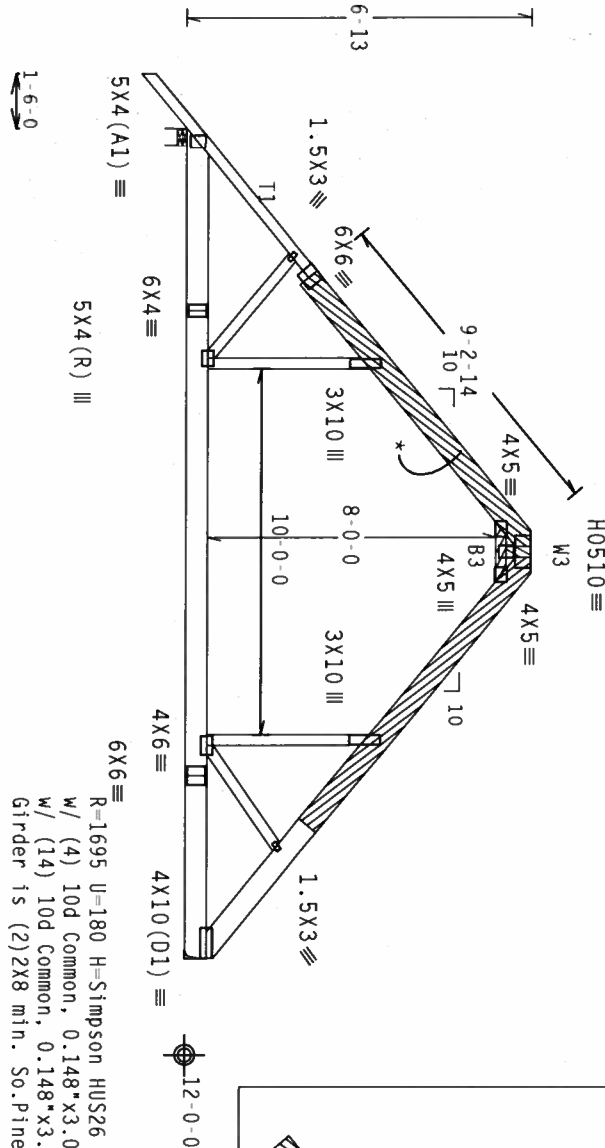
Calculated horizontal deflection is 0.13" due to live load and 0.25" due to dead load.

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

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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

\* (ONE) JACK SCAB, SHADED, LUMBER GRADES. PLATES SAME AS SHOWN ON THIS DRAWING. ATTACH ONE JACK SCAB (SHADED) TO ONE FACE OF EXISTING TRUSS. USE (0.131"x3") GUN NAILS IN 1 ROW @ 4'-0" O.C. INTO ALL MEMBERS IN COMMON WITH EXISTING TRUSS.



R=1695 U=180 H=Stimpson HUS26  
W/ (4) 10d Common, 0.148"x3.0" nails in Truss  
W/ (14) 10d Common, 0.148"x3.0" nails in Girder  
Girder is (2)2X8 min. So.Pine

PLT TYP. 20 Gauge HS, wave

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

CHALLENGE

NOTY:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
 REFER TO BC91 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, TRUSS PLAN INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD JOINTS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MAISON, MI 53139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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


PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN CONFORMANCE WITH APPLICABLE REQUIREMENTS OF HSE, APPLICABLE DESIGN CODES OR LOCAL AND STATE

CONNECTOR PLATES ARE MADE OF 2018/16GA (M H/SS/K) ASTM A653 GRADE 40/50 (M K/M SS) GALV DESIGN CONFORM WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC/A) AND IPI

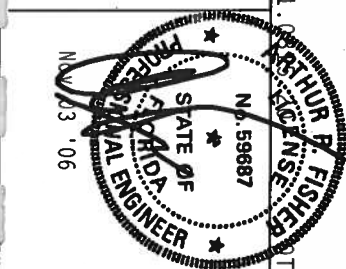
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPII-2002 SEC.3. A SEAL ON THIS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A/2

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY F

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 Mayfield Drive  
Haines City, FL 33844



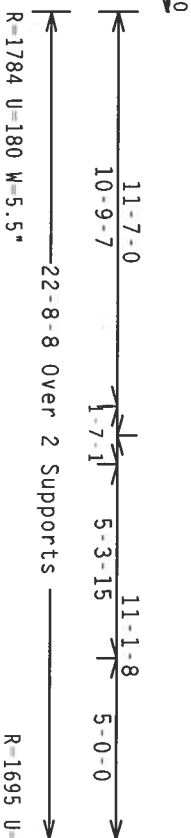
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TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUS487 06307099
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	12965 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T20487_201

110 mph wind, 16.60 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, Cat II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 6-7-0 to 16-7-0.



Design Cr1t: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.2$$

THE UNIVERSITY OF CHICAGO

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

Scale = .1875"/Ft.

R-1695 U=180 H=Simpson HUS26 W/ (4) 10d Common, 0.148"x3.0" nails in Truss w/ (14) 10d Common, 0.148"x3.0" nails in Girders Girder 2x8 min. So. Pine	QTY: 1	FL - / - / - / - R / -	TC LL	20.0 PSF	
			TC DL	10.0 PSF	



Nov 03 '06

10

TC LL	20.0 PSF	REF R487 - 63902
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307066
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN - 135340
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_Z01

Top chord 2x4 SP #2 Dense : T2 2x8 SP #1 Dense:  
Bot chord 2x8 SP #1 Dense : B2 2x4 SP #2 Dense:  
Weds 2x4 SP #3

: Rt Bearing Leg 2x4 SP #3:

Calculated horizontal deflection is 0.15" due to live load and 0.26" due to dead load.

(A) Continuous lateral bracing equally spaced on member.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 6-7-0 to 16-10-8.

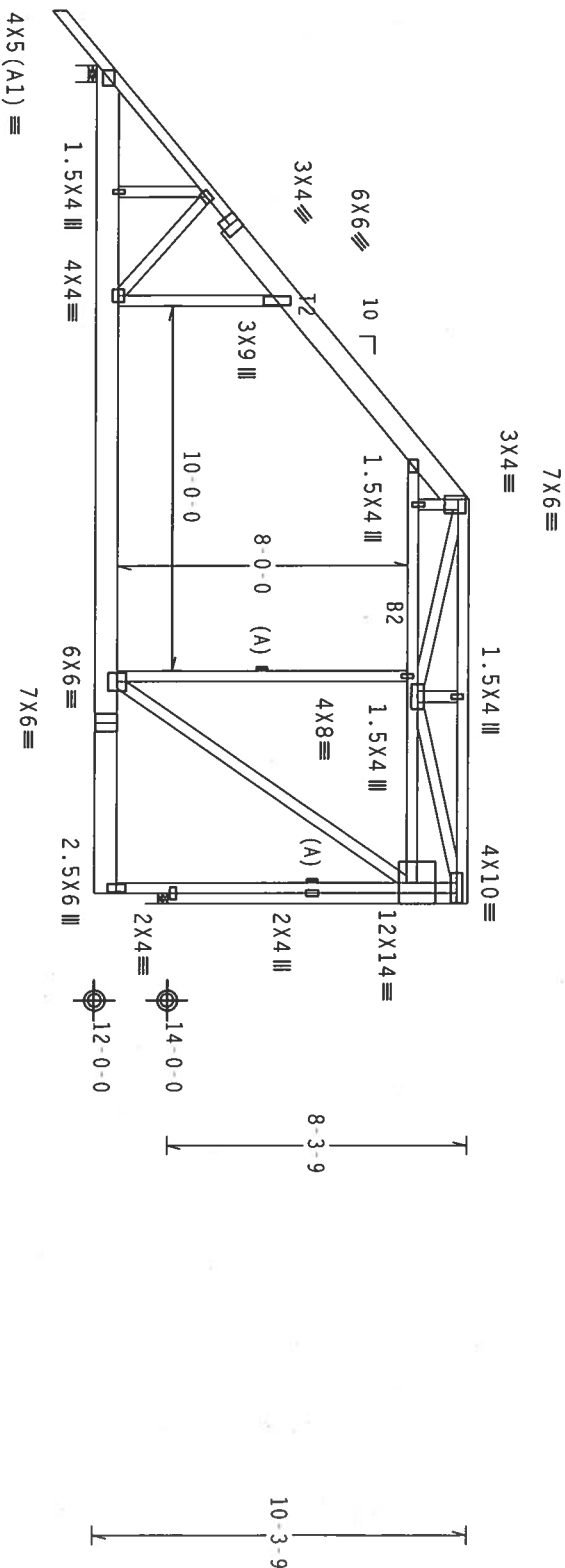
110 mph wind, 16.72 ft mean hgt. ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

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

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



1'-6" 11'-10" 10'-9" 7'-2" 10'-10" 4'-5" 0'-3" 8" 23'-0" Over 2 Supports R=1836 U=180 W=5.5" R=1854 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

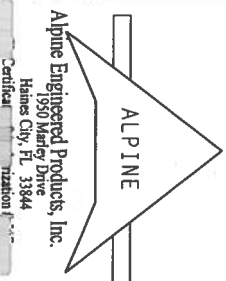
7.24.1

FL/-4/-/R/-

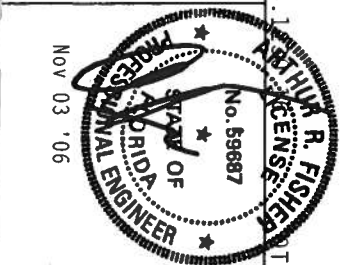
Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE SOURCE FOR TRUSS MANUFACTURING PRACTICES. 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND USE THESE PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W, K/H/SS) 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 AMER AS OF TPI-1-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE REQUIRED. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMST/ITI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487 - - 63903
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307067
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135321
DUR.FAC.	1.25		
SPACING	24.0"	JREF	IT20487_201

Top chord 2x8 SP #1 Dense :T1 2x4 SP #2 Dense:  
Bot chord 2x8 SP #1 Dense  
Webs 2x4 SP #3  
Rt Bearing Leg 2x4 SP #3:

Calculated horizontal deflection is 0.13" due to live load and 0.24" due to dead load.

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

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

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

110 mph wind, 15.89 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

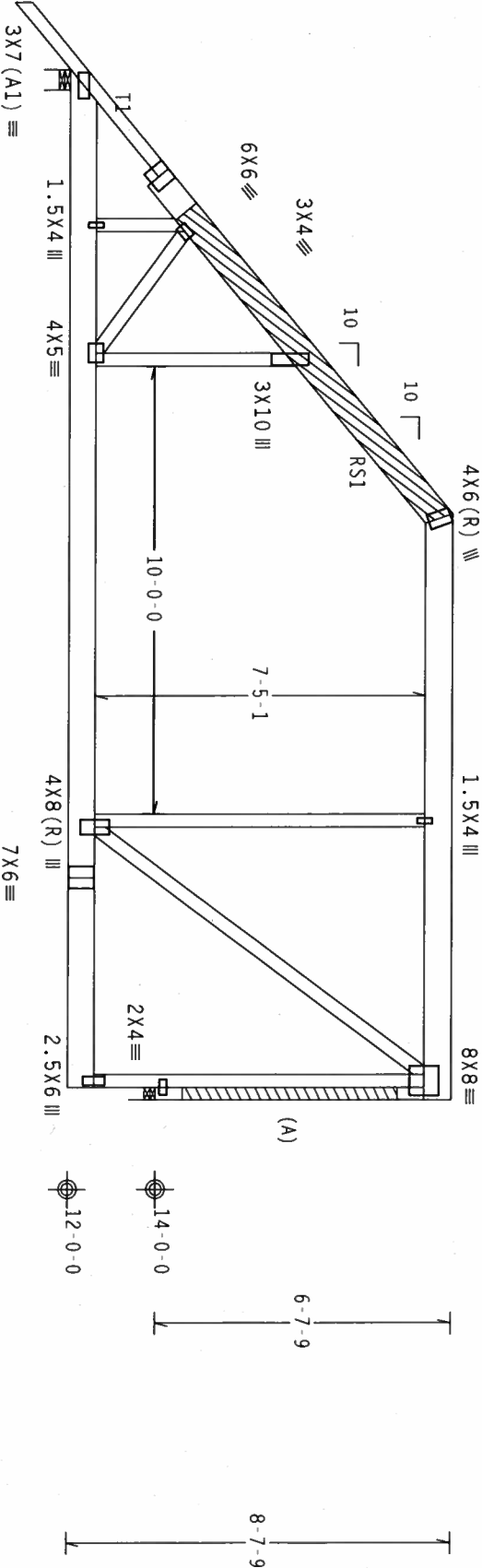
Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 6-7-0 to 16-10-8.

RS1 (1) 2x8X9-0-0 SP #1 Dense Top chord scab centered 6-8-10 from left end. Attach to one face of chord with (4) rows of 12d Common (0.148"x3.25",min.)\_nails @ 6" O.C., staggered 3".



PLT TYP. Wave

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

7.31.00

FL/-/4/-/R/-

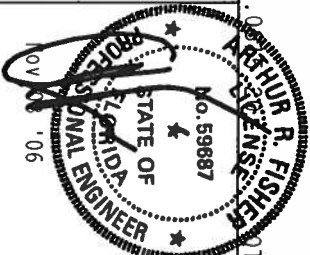
Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI (BRACING COMPANION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/W/55/K) ASTM A653 GRADE 40/60 (W, K/H/55) 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 SOCIETY FOR THE TRUSS COMPONENT BUILDING INDUSTRY. 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.  
Haines City, FL 33844  
1990 Marley Drive  
Certificat



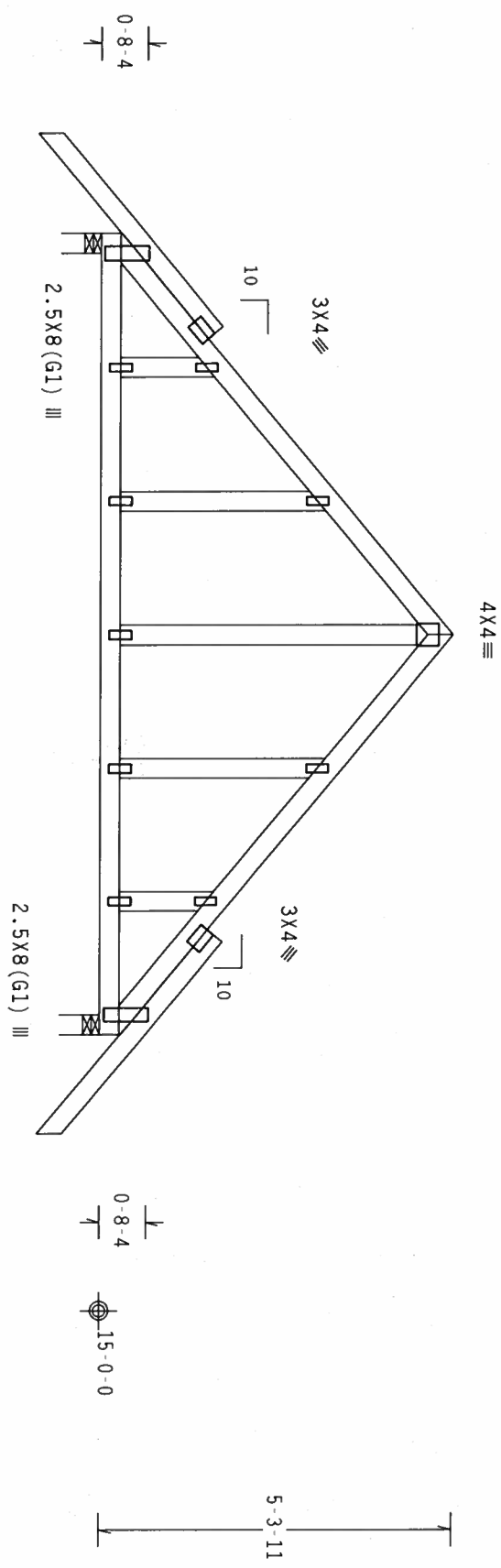
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TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307132
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	12970 REV
DUR.FAC.	1.25		
SPACING	24.0"	IRFF-	1T20487_201

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

Wind reactions based on MWFRS pressures.

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

**\*\*WARNING! 2 UNPLATED JOINT(S) \*\***  
110 mph wind, 17.37 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



1-6-0  
1-6-14  
4-5-2  
12-0-0 over 2 Supports  
1-6-14  
1-6-0  
R=992 U=180 W=3.5"  
R=992 U=180 W=3.5"

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.24.1

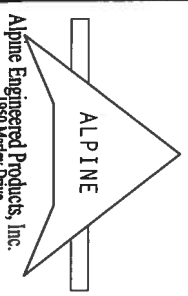
ARTHUR R. FISHER

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

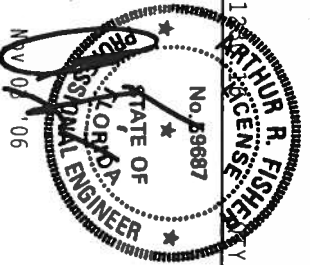
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND NICKI CHOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W, K/H-S5) GALV. STEEL. APPLY ALL SPECIFICATIONS OF TPI. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 180A.2. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



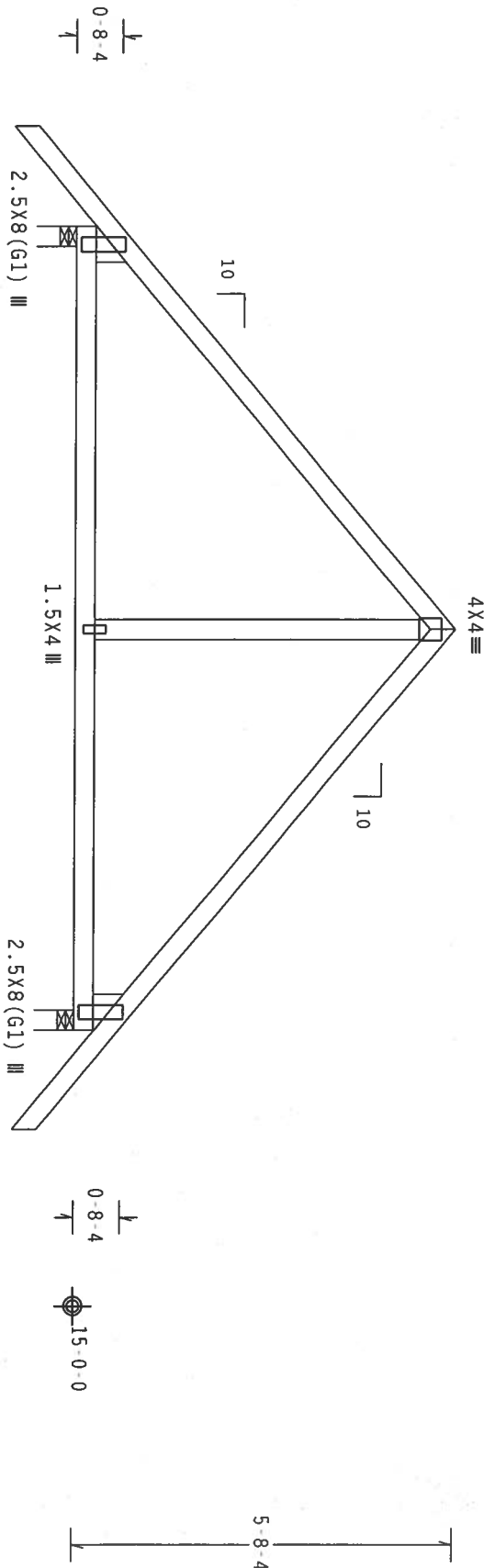
Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Certificate of Registration #72



TC LL	20.0 PSF	REF	R487--	63905
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307068
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT.LD.	40.0 PSF	SEQN-	135052	REV
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1T20487_201	

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Weds 2x4 SP #3  
Lt Studded Wedge 2x6 SP #2: Rt Studded Wedge 2x6 SP #2:  
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 17.56 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.  
Wind reactions based on MMFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.



PLT TYP. Wave

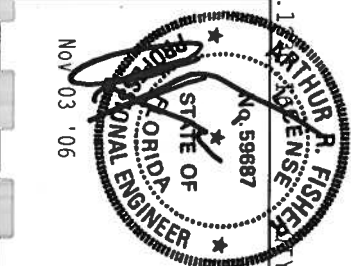
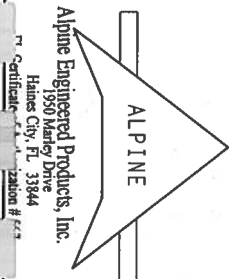
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1

Scale = .375"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENTS) SPECIFICATIONS, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) SPECIFICATIONS, 110 N. MICHIGAN, CHICAGO, IL 60601, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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TC LL	20.0 PSF	REF	R487--	63906
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307100
BC LL	0.0 PSF	HC-ENG	DAL/AF	*
TOT. LD.	40.0 PSF	SEQN-	135046	
DUR. FAC.	1.25			
SPACING	24.0"	JRFF-	1T20487_201	

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

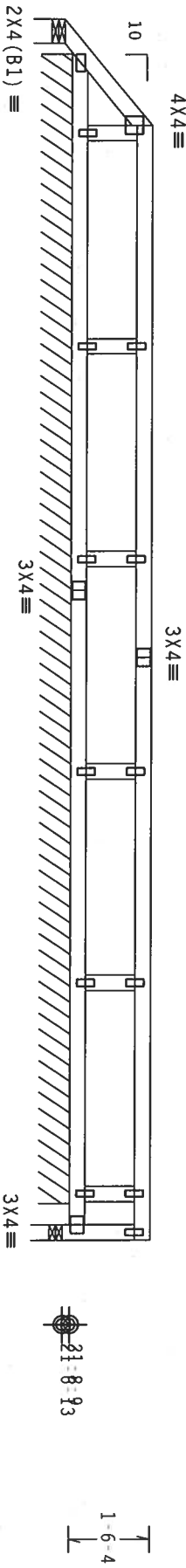
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.40 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



R=24 U=180 W=5.467"  
R=75 PLF U=29 PLF W=21-8-0

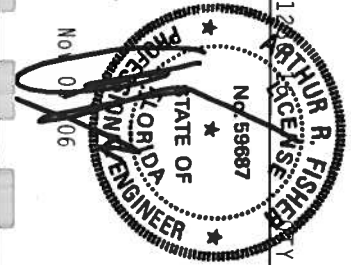
Note: All Plates Are 1.5X4 Except As Shown.

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 360 (10th EDITION) AND AISC 360 (10th EDITION), UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 360 (10th EDITION) AND AISC 360 (10th EDITION), 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.  
Haines City, FL 33844  
Certificate #



TC LL	20.0 PSF	REF	R487--	63907
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	2.0 PSF	DRW	HCSR487	06307069
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT. LD.	32.0 PSF	SECN-	135687	
DUR. FAC.	1.25			
SPACING	24.0"	JRFF-	1T20487_201	

Scale = .3125"/ft.

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

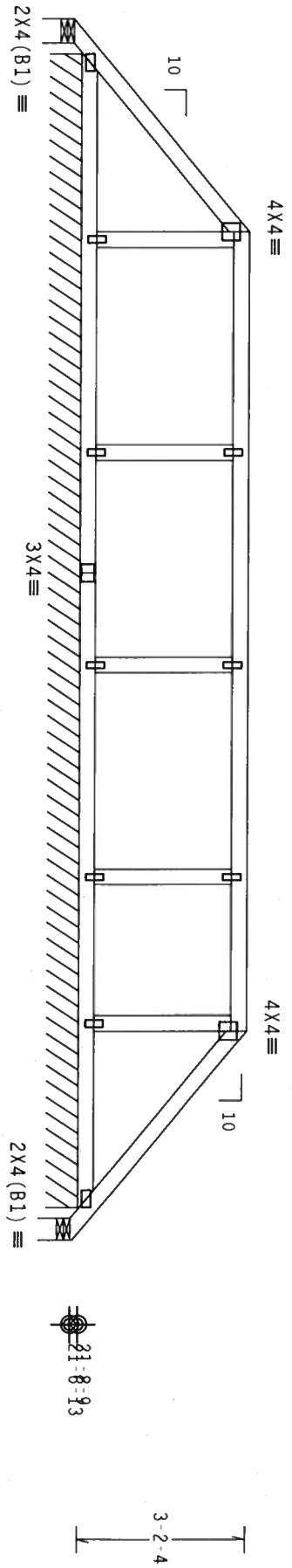
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.

PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.23 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



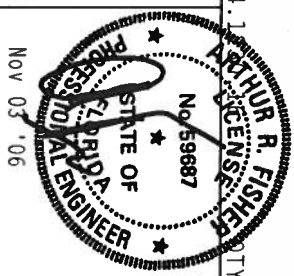
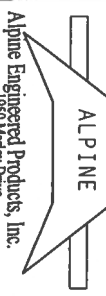
R=35 U=180 W=5.467"  
R=77 PLF U=31 PLF W=21.9-1

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave Design Crit: TP1-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.1

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY) FOR MORE INFORMATION. 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND WFO 1000 TRUSS COASTAL INC. 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 AWS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE



TC LL	20.0 PSF	REF	R487-- 63908
TC DL	10.0 PSF	DATE	11/03/06
BC DL	2.0 PSF	DRW	HCUSR487 06307070
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT. LD.	32.0 PSF	SEQN-	135682
DUR. FAC.	1.25		
SPACING	24.0"	URFF-	1T20487_201

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

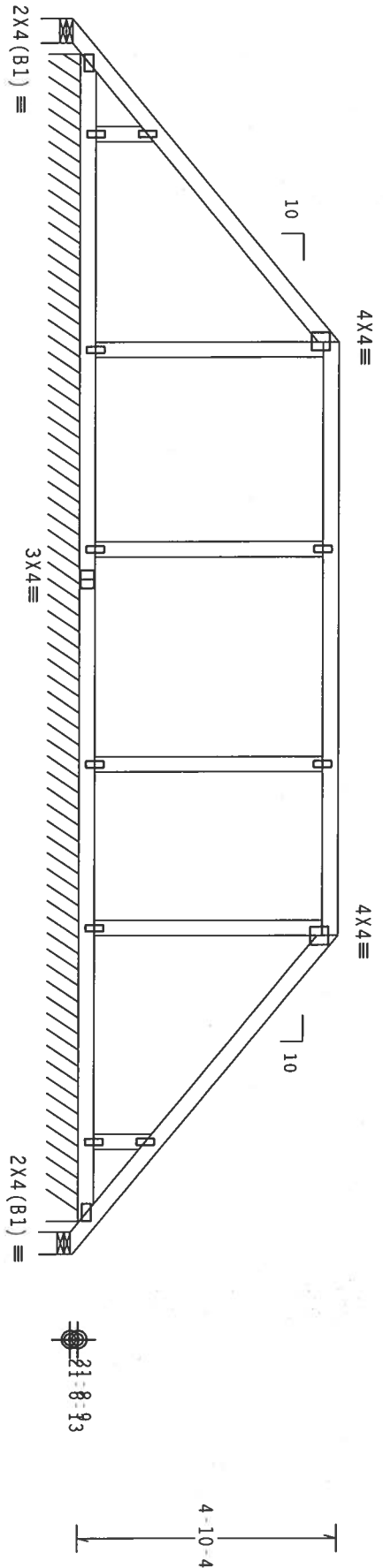
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 24.07 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



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

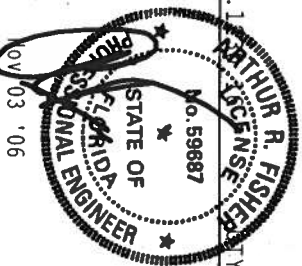
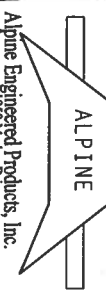
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

Scale = .3125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE BUILDING CODES (INTERNATIONAL, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 N. 1ST ST., SUITE 100, MINNEAPOLIS, MN 55401, OR AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 535 N. DEARBORN ST., SUITE 600, CHICAGO, IL 60610, OR OTHERS) FOR THE LATEST REQUIREMENTS. SAFETY PRECISE BRACING OF TRUSSES IS CRITICAL. 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 COMPONENTS WITH APPLICABLE PROVISIONS OF AISC 360-10 (ASCE 7-02) AND AISC 360-10 (ASCE 7-02) SHALL BE THE RESPONSIBILITY OF THE 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 COMPONENTS WITH APPLICABLE PROVISIONS OF AISC 360-10 (ASCE 7-02) AND AISC 360-10 (ASCE 7-02) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



TC LL	20.0 PSF	REF	R487--	63909
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	2.0 PSF	DRW	HCUSR487	06307071
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT. LD.	32.0 PSF	SEQN-	135678	
DUR. FAC.	1.25			
SPACING	24.0"			

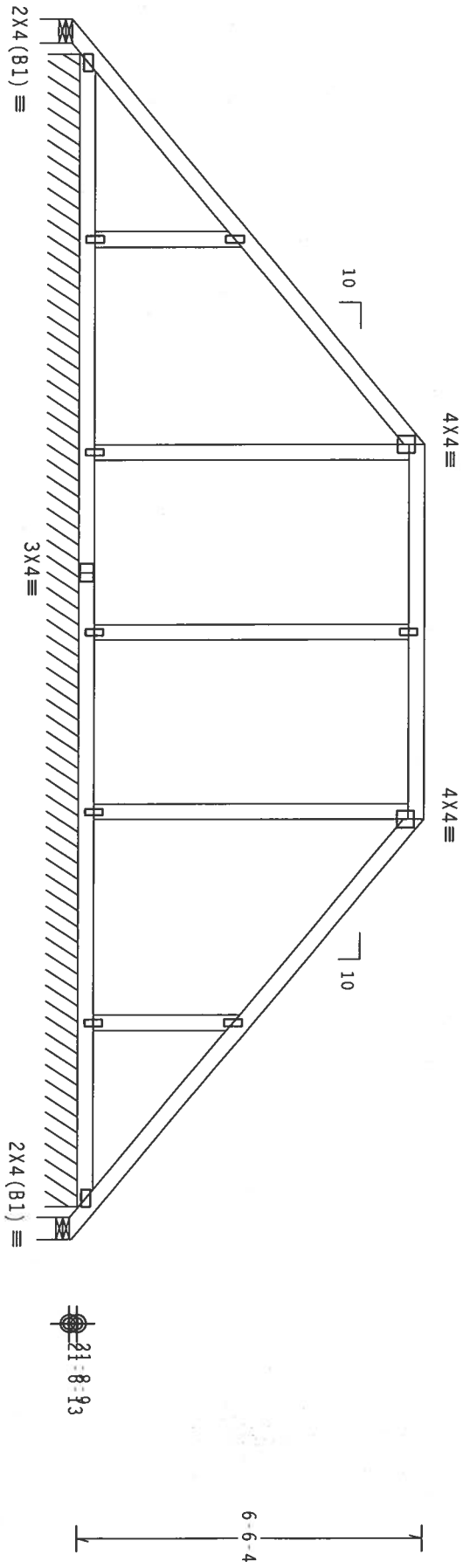
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

110 mph wind, 24.90 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=1.2 psf.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback  
details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS  
-----  
LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25  
TC - From 66 PLF at 0.00 to 66 PLF at 23.02  
BC - From 4 PLF at 0.00 to 4 PLF at 23.02  
Wind reactions based on MMFRS pressures.  
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.



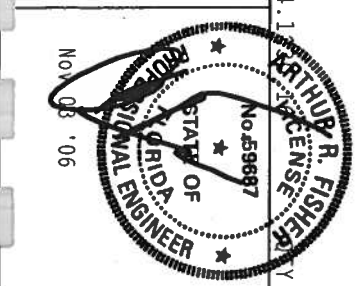
R=25 U=180 W=5.467"  
R=75 PLF U=31 PLF W=21-9-1

Note: All Plates Are 1.5X4 Except As Shown.

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, SHIPPING, INSTALLING AND BRACING.  
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI-2002 (STD).  
CONNECTION PLATES ARE MADE OF 2018/1604 (W.H/S/S) ASTM A553 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS OF TPI-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
BUILDING DESIGNER PER ANK/171 1 SEC. 2.

ALPINE  
Alpine Engineered Products, Inc.  
Haines City, FL 33844  
Certified  
Station # 7-1



TC LL	20.0 PSF	REF	R487--	63910
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCSR487	06307072
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT. LD.	40.0 PSF	SEQN-	135674	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1T20487_201	



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

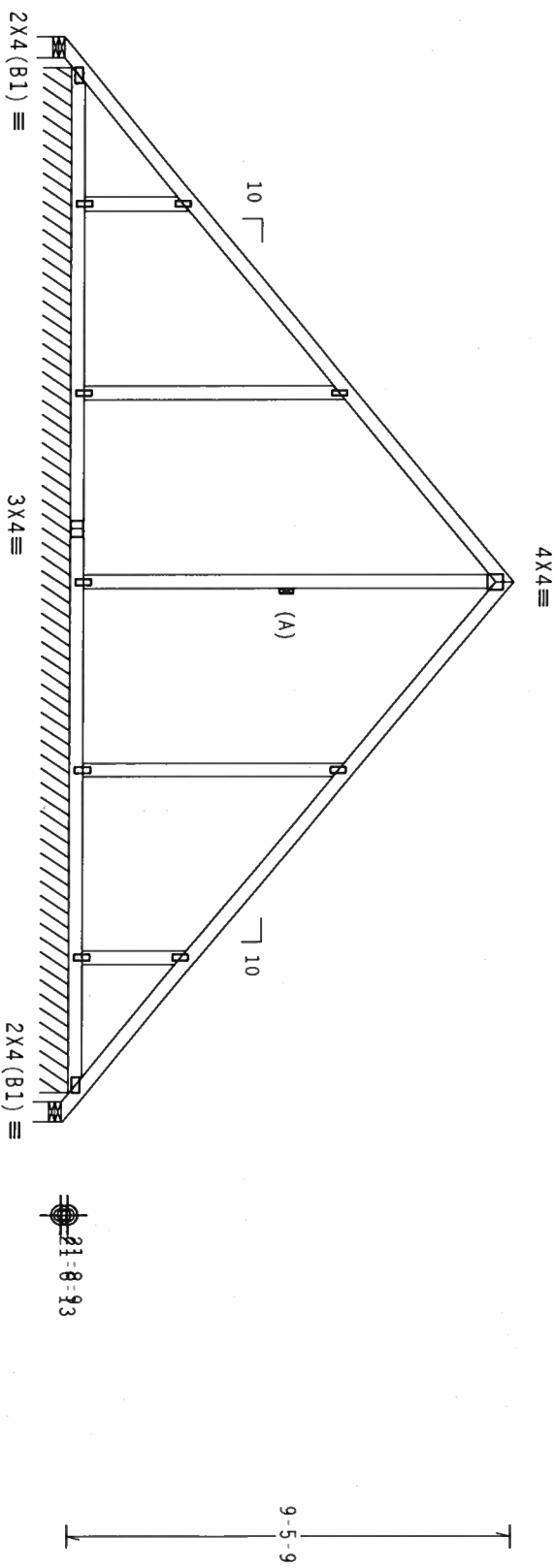
Wind reactions based on MFRRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 26.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

(A) Continuous lateral bracing equally spaced on member.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



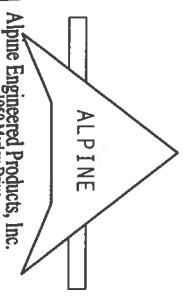
10'-10"-8  
10'-10"-8  
23'-0"-5 Over 3 Supports  
10'-10"-8  
10'-10"-8  
R=2 U=182 W=5.467\*  
R=73 PLF U=31 PLF W=21.9-1  
R=2 U=180 W=4.974\*

Note: All Plates Are 1.5x4 Except As Shown.  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

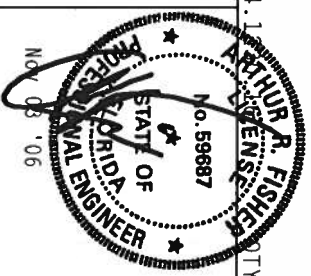
Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRING EXTREME CARE IN FABRICATING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (000) FOR SUPPORTS, CITY OF TAMPA, FL, AND LISTED IN TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304). 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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1604 (W/H/S/S/Y) ASTM A653 GRADE 40/60 (W, K/H, S/S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE STABILITY 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.  
1650 Manley Drive  
Haines City, FL 33844  
Zitation #



TC LL	20.0 PSF	REF	R487 - 63912
TC DL	10.0 PSF	DATE	11/03/06
BC DL	2.0 PSF	DRW	HCUSR487 06307074
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT. LD.	32.0 PSF	SEQN-	135664
DUR. FAC.	1.25		
SPACING	24.0"		

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

Wind reactions based on MWFRS pressures.

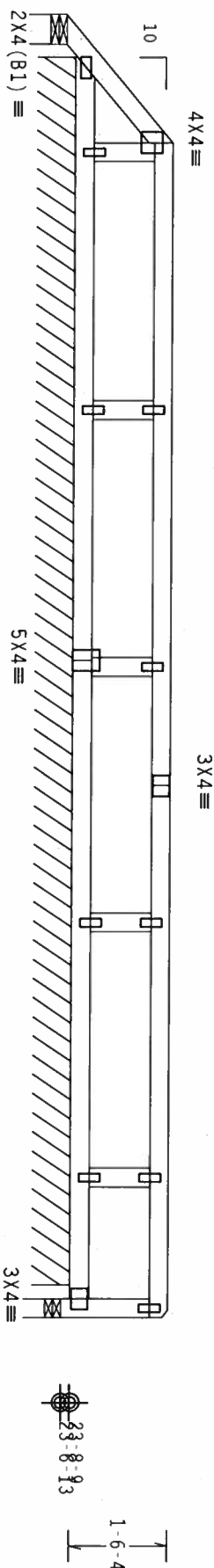
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.

PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 24.40 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



R=23 U=180 W=5.467"  
R=70 PLF U=30 PLF W=19'-2-0

R=37 U=180 W=3.5"

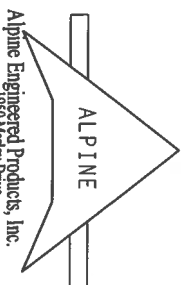
Note: All Plates Are 1.5X4 Except As Shown.  
Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

PLT TYP. Wave

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, 1001 LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WITH WOOD TRUSS COUNCIL OF AMERICA, 600 ENTERPRISE LANE, 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 AISC (AISC 360) AND AISC 360I (AISC 360I) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. A SEAL ON THIS DRAWING INDICATES THE SEALING OF THE TRUSS JOINTS. THE SEALING OF THE TRUSS JOINTS IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC 360I 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marney Drive  
Haines City, FL 33844  
Certificate of Registration # 06



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

Scale = .375"/ft.

TC LL	20.0 PSF	REF R487 - 63913
TC DL	10.0 PSF	DATE 11/03/06
BC DL	2.0 PSF	DRW HCUSR487 06307075
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT. LD.	32.0 PSF	SEQN- 135602
DUR. FAC.	1.25	
SPACING	24.0"	
DRFF	1T20487_201	

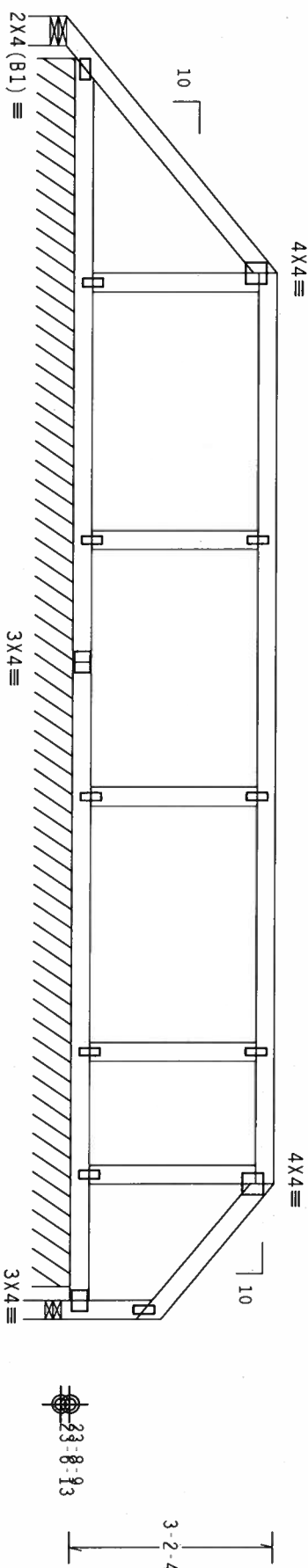
110 mph wind, 25.23 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.

PORTION OF RUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.



R=72 PLF U=32 PLF W=19-2-0

R=61 U=180 W=3.5

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

STADT- UND  
BIBLIOTHEK  
DRESDEN

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

Scale = .375"/Ft.

\*\*WARNING\*\*  
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING.  
 REFER TO GC51 (BULB/TIM COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRESS PASTE, INSTITUTE), 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND ATCA (WOOD ROSS COUNCIL OF AMERICA, 6300  
 ENTERPRISE LANE, MOJOSUM, MI 53179) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, ACTION CONCERNING WITH UNDESIRABLE PRODUCTION OF WORK (SPECIAL SPECIAL) ON THESE TRUSSES.

ALPINE CONNECTOR PLATES TO EACH FACE OF BRISSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-7 PLATES TO EACH FACE OF BRISSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-7

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT  
A SEAL ON THIS

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

111

ALPINE

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

\*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 ROSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, ALPINE COMPANIES WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AREA) AND TPI. APPLY THE FOLLOWING CODES TO THE ROSS: AISC 890 (TYPICAL CONNECTIONS), AISC 890 (PERMANENTLY CONNECTED PLATES TO EACH FACE OF TRUSS) AND UNLESS OTHERWISE INDICATED ON THE ROSS PER DRAWING. PERFORM AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI-2002 SEC. 3. DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE ROSS COMPONENT SECTION SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

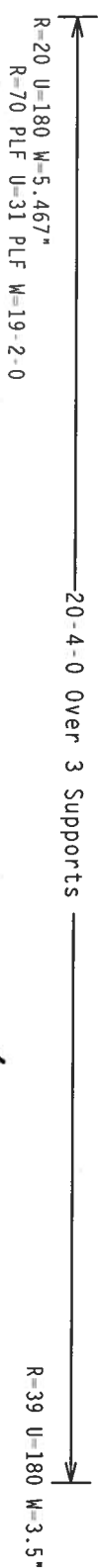
Professional Engineer Seal for Arthur A. Fishel, State of Florida, No. 59687, dated Nov 03 '06.

FL/-/4/-/-/R/-		Scale = .375"/Ft.	
TC LL	20.0 PSF	REF	R487 - 63914
TC DL	10.0 PSF	DATE	11/03/06
BC DL	2.0 PSF	DRW	HCUSR487 06307076
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	32.0 PSF	SEQN -	135611
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T20487_201

Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC UNLESS OTHERWISE SPECIFIED.



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

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

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

Scale = .375" / Ft.

\*\*WARNING\*\*  
 BUILDERS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO BC31 (ROBUST COMPONENT SARE IN INFORMATION). PUBLISHED BY TPI (TRESS PLATE INSTITUTE), 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD JOINT COUNCIL OF AMERICA), 6300  
 ENTERPRISE LANE, MANASSAS, VA, 57319 FOR SARE PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

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

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

CONNECTOR PLATES ARE MADE OF 2024-T3 ALUMINUM. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIAA) AND TPI. ALPINE

CONNECTION PLATES SHALL HAVE: WT 20/10/1000 (M, N/35/K) ASIM A653 GRADE 40/60 (M, K/H/35) 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 TP11-2002 SEC 3 A SEAL ON THIS

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

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

BUILDING DESIGNER PER ANSI/YP1 1 SEC. 2.



Alpine Engineered Products, Inc.

7 Certificate of Authorization # CC3

Medical Association # 023



1

25 JUL 1967 24.0

URTF 11481-201

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

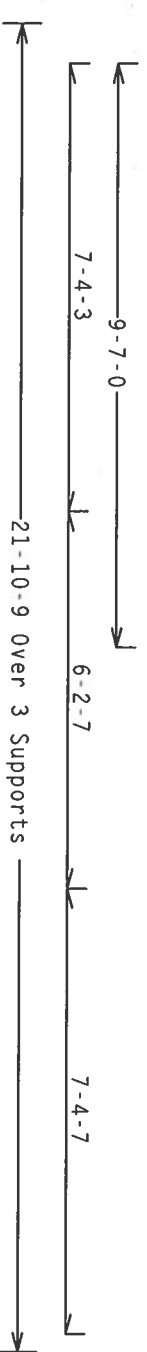
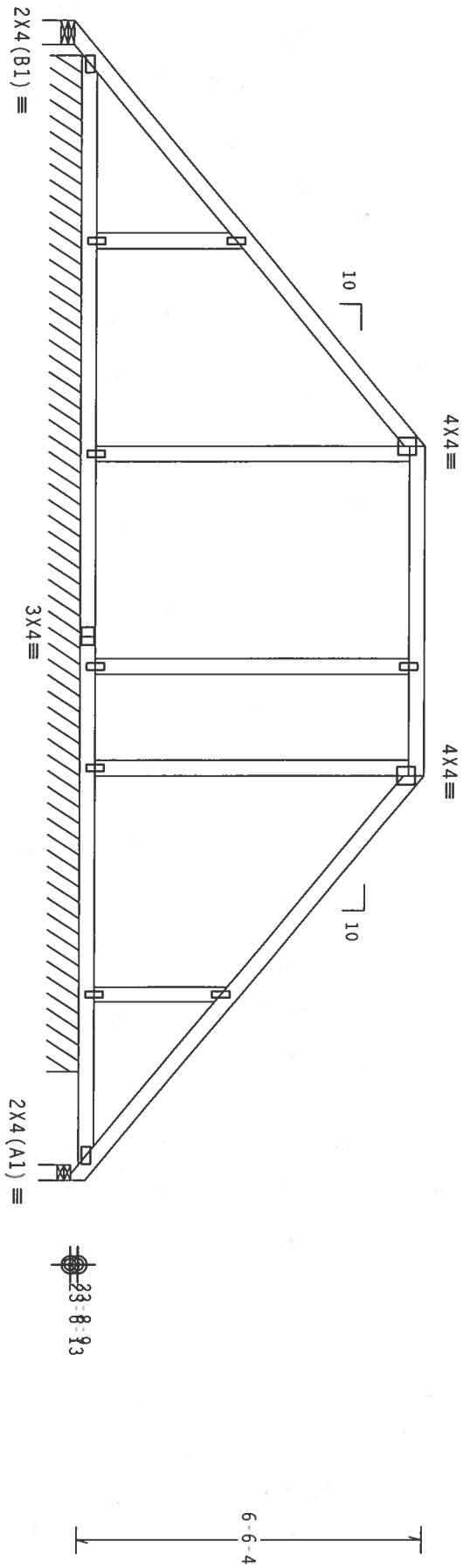
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.

PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 26.90 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



R=32 U=180 W=5.467"  
R=75 PLF U=36 PLF W=19-2-0

R=102 U=180 W=3.5"

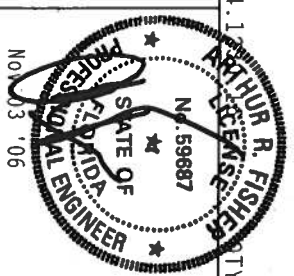
Note: All Plates Are 1.5X4 Except As Shown.

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. 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 OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/19/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W. K/H/SS) 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 A OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNING INDICATES THE RESPONSIBILITY 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.  
Haines City, FL 33844  
Certificate #



FL / - / 4 / - / - / R / -		Scale = .3125" / Ft.	
TC LL	20.0 PSF	REF	R487 - 63916
TC DL	10.0 PSF	DATE	11/03/06
BC DL	2.0 PSF	DRW	HCUSR487 06307078
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT. LD.	32.0 PSF	SEQN-	135625
DUR. FAC.	1.25		
SPACING	24.0"	URFF-	1T20487_201



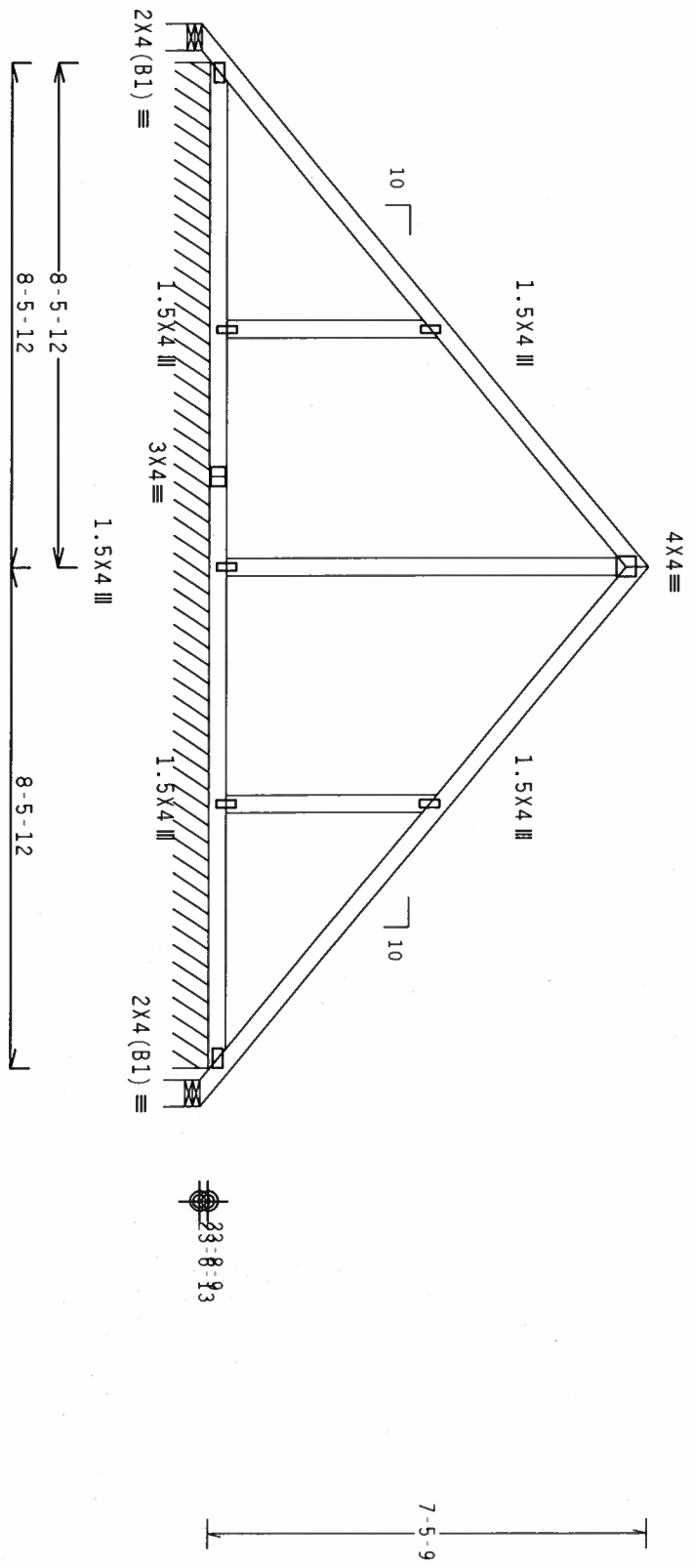
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 27.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



R=87 U=192 W=5.467"  
R=84 PLF U=43 PLF W=16-11-7  
R=86 U=180 W=5.468"

PLT TYP. Wave

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

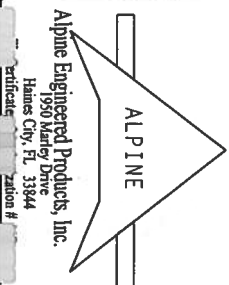
7.24.1

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

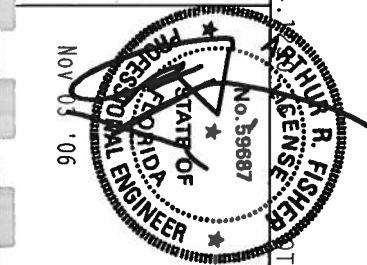
Scale = .3125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 310, ELKHART, IN 46516. TRUSS INSTITUTE, 218 ENTERPRISE LANE, 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 OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/S) ASTM A653 GRADE 40/60 (W, K/H, SS) 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 AMERICAN AS OF TPI 1.2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT 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.  
Haines City, FL 33844  
Nation #



TC LL	20.0 PSF	REF R487-- 63918
TC DL	10.0 PSF	DATE 11/03/06
BC DL	2.0 PSF	DRW HCUSR487 06307080
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	32.0 PSF	SEON- 135636
DUR.FAC.	1.25	
SPACING	24.0"	

JREF- 1T20487\_201

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

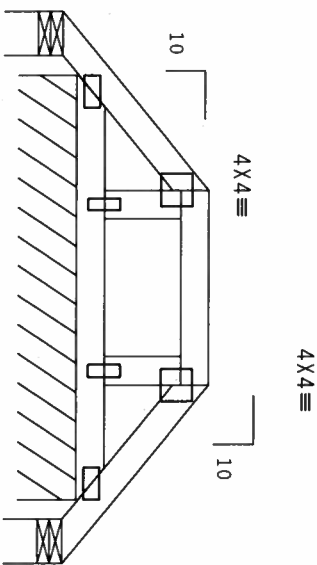
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.47 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



21-10-4  
21-8-4

1-4-9

5-8-0 Over 3 Supports  
R=17 U=180 W=5.467"  
R=76 PLF U=41 PLF W=4-4-4  
R=17 U=180 W=5.467"

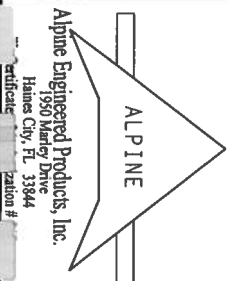
PLT TYP. Wave

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

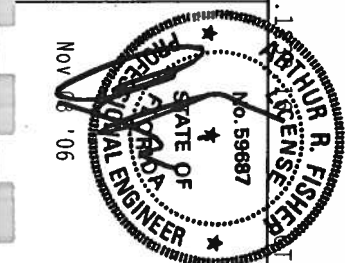
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. (BUTLINGTON COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, MOHAWK, MI 49753) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE 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 ACPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/K) ASTM A653 GRADE 40/60 (W. K/H/55) 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 A OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
Haines City, FL 33844  
Certification #



TC LL	20.0 PSF	REF R487 - 63919
TC DL	10.0 PSF	DATE 11/03/06
BC DL	2.0 PSF	DRW HCUSR487 06307081
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	32.0 PSF	SEQN- 135038
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_201

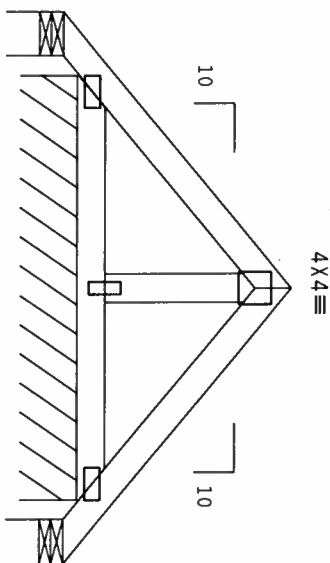
Scale = .5"/ft.

Wind reactions based on MWFRS pressures.

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.

PORTION OF RUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.

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



21-10-8-4

2-2-5

$$2 \times 4(B1) \equiv 1.5 \times 4 \equiv 2 \times 4(B1)$$

5-8-0 Over 3 Supports

R=0	U=180	W=5.467"	R=0	U=180	W=5.467"
R=84	PLF	U=41	PLF	W=4-4-4	

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24$$

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

Scale = .5" / Ft.

**\*WARNING\***  
 ISSUES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO DC61 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PAPER INSTITUTE), 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND ATCA (WOOD ROSS COUNCIL OF AMERICA), 6500  
 ENTERPRISE LANE, MOJOHIO, MI 48151 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CEILING.

**\*\*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 TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF NON-STEEL DESIGN SPEC.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND IPI. ALPINE CONNECTOR PLATES ARE MADE OF 304/18/16GA (4 H/55/K) ASTM A563 GRADE 40/60 (4 H/55) CALW STEEL.

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-2 CONNECTION REQUIREMENTS SHALL BE 20/10/1000 (W. N/35/K) WITH A035 GRADE 40/50 (W. K/N/35) GALV. STEEL. APPLY

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

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

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

**BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.**



Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

certificates	zabon #

ALPINE

**Nº. 59687**

LAIR

100



90.80

FL/-/4/-/-/R/-		Scale = .5"/Ft.	
TC LL	20.0 PSF	REF	R487-- 63920
TC DL	10.0 PSF	DATE	11/03/06
BC DL	2.0 PSF	DRW	HCSUR487 06307082
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	32.0 PSF	SEQN-	135043
DUR.FAC.	1.25		
SPACING	24.0"	IRFF-	1T20487_201

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

Wind reactions based on MWFRS pressures.

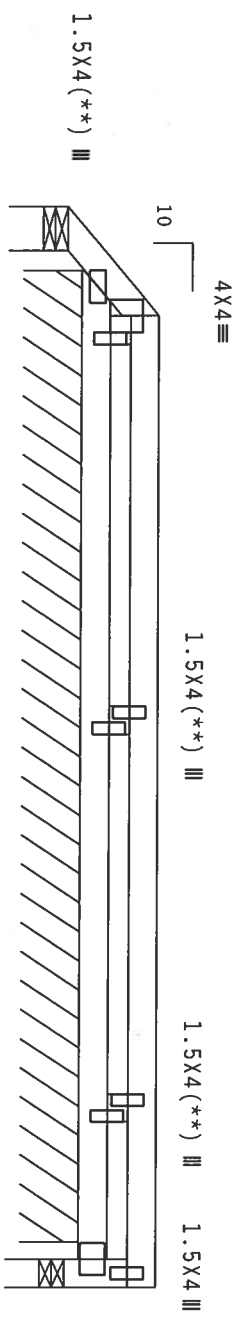
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

(\*\*) 5 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 22.77 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



1.5X4(\*\*) III  
2X4(B1) III  
1.5X4(\*\*) III  
1.5X4(\*\*) III  
3X4 III  
R=2 U=180 W=5.467\*  
R=74 PLF U=29 PLF W=10-0-0  
11-1-8 Over 3 Supports  
R=30 U=180 W=3.5\*

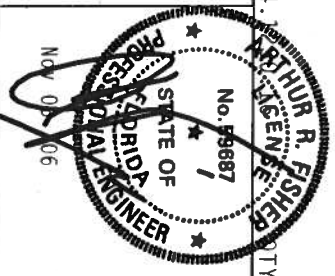
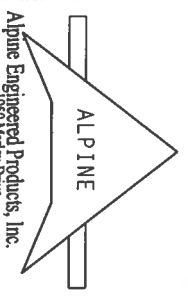
PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC  
CQ/RT=1.00(1.25)/10(0) 7.24.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO THE TRUSS MANUFACTURER'S INSTRUCTIONS IS REQUIRED. TRUSSES ARE TO BE USED IN CONFORMANCE WITH THE DESIGN SPECIFICATIONS OF THE TRUSS MANUFACTURER. TRUSSES ARE TO BE USED IN CONFORMANCE WITH THE DESIGN SPECIFICATIONS OF THE TRUSS MANUFACTURER. TRUSSES ARE TO BE USED IN CONFORMANCE WITH THE DESIGN SPECIFICATIONS OF THE TRUSS MANUFACTURER.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SPECIFICATIONS OF THE TRUSS MANUFACTURER SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SPECIFICATIONS OF THE TRUSS MANUFACTURER SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.



TC LL	20.0 PSF	REF	R487 - 63921
TC DL	10.0 PSF	DATE	11/03/06
BC DL	2.0 PSF	DRW	HCUSR487 06307083
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT. LD.	32.0 PSF	SEQN	135281
DUR. FAC.	1.25		
SPACING	24.0"		

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

Wind reactions based on MMFRS pressures.

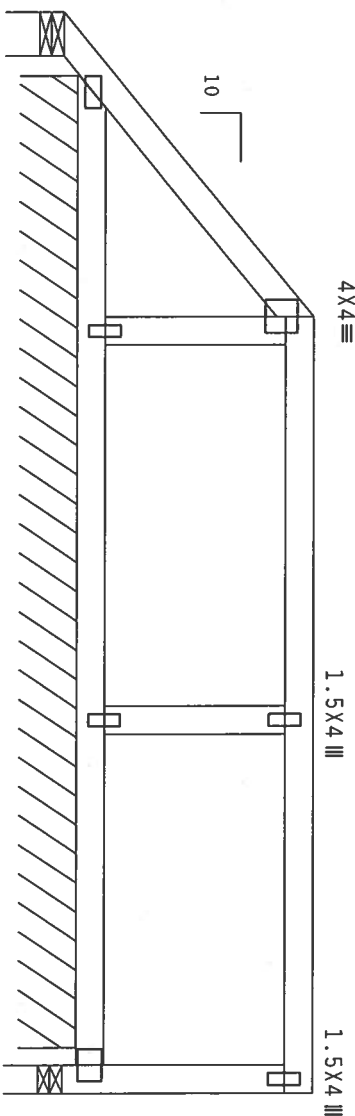
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback  
details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.60 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



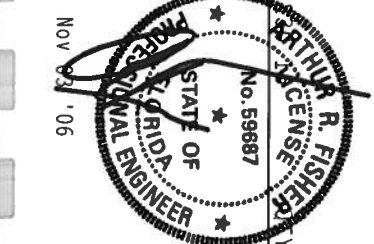
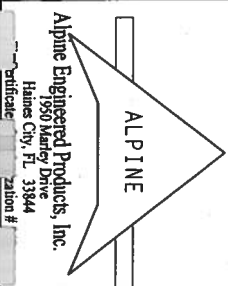
R=-1 U=180 W=5.467"  
R=67 PLF U=32 PLF W=10-0-0  
R=93 U=180 W=3.5"

PLT TYP. Wave

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218  
NORTH LEXINGTON AVENUE, SUITE 200, CHICAGO, ILLINOIS 60601) FOR TRUSS CORRELATION, 6500  
ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO BEGINNING CONSTRUCTION. TRUSSES  
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE  
A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA AND TPI. ALPINE  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W. K/H.S5) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 63922
TC DL	10.0 PSF	DATE 11/03/06
BC DL	2.0 PSF	DRW HCUSR487 06307084
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT. LD.	32.0 PSF	SEQN- 135288
DUR. FAC.	1.25	
SPACING	24.0"	
URFF- 1T20487_Z01		

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

Wind reactions based on MMFRS pressures.

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

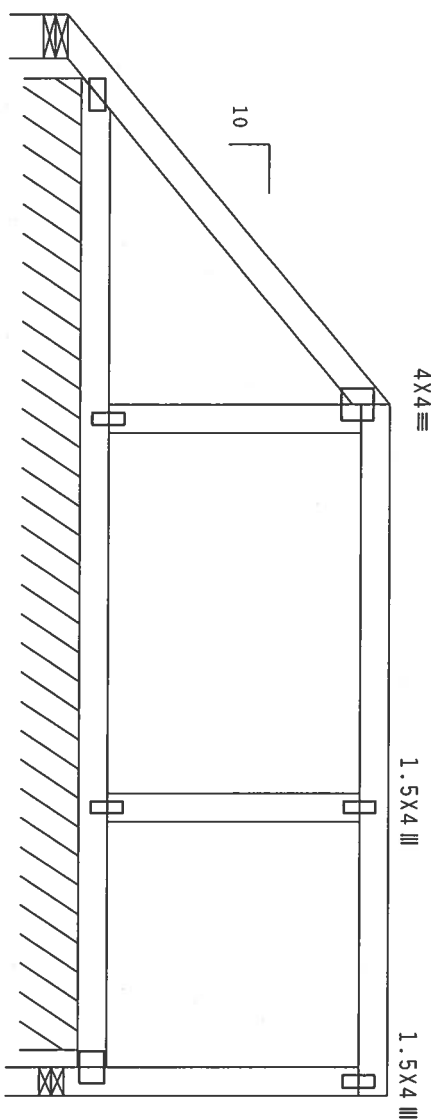
Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.

PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.96 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



R=39 U-180 W-5.467"  
R=74 PLF U=39 PLF W=10-0-0  
R=67 U-180 W=3.5"

PLT TYP. Wave

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

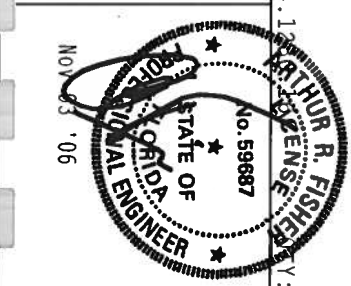
7.24.13

FL/-/4/-/R/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) FOR THE FOLLOWING INFORMATION: 1. THE TRUSS IS TO BE USED IN CONFORMANCE WITH THE FOLLOWING: NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICK (WOOD TRUSS CONNECT) OF INSTRUCT. 210 ENTERPRISE LANE, 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 FOLLOWING: 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/SS/VS) ASTM A653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.Z. PLATES TO EACH FACE OF PLACES FOLLOWED BY (1) SHALL BE PER ANCHOR AS OF 1711-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE DESIGNER'S PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 63923
TC DL	10.0 PSF	DATE 11/03/06
BC DL	2.0 PSF	DRW HCURA87 06307085
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	32.0 PSF	SEQN- 135295
DUR.FAC.	1.25	
SPACING	24.0"	

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

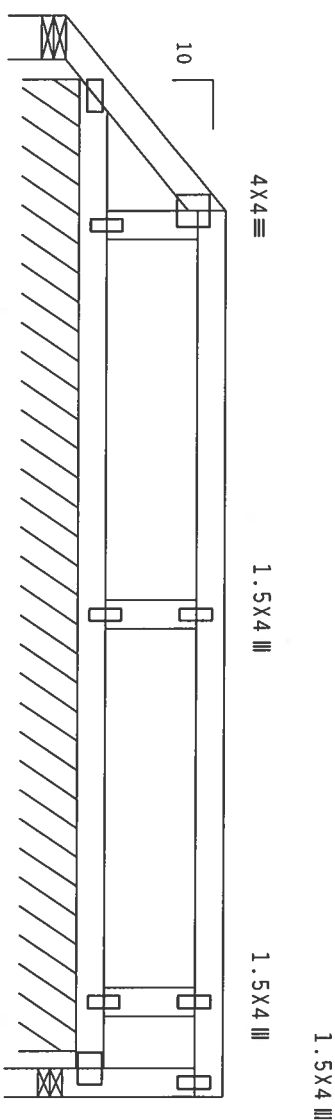
Wind reactions based on MFRS pressures.

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

Refer to DWG PIGBACK1103 or PIGBACK1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.13 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



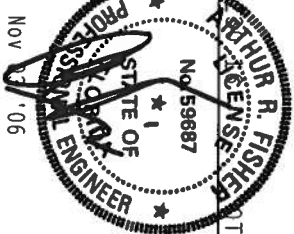
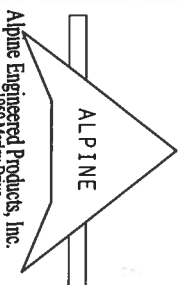
R-23 U=180 W=5.467"  
R-77 PLF U=32 PLF W=10-0-0  
R-29 U=180 W=3.5"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSS IS BEST (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2180 N. 15TH AVE., SUITE 100, DENVER, CO 80202) OR TPI (TRUSS PLATE INSTITUTE, 2180 N. 15TH AVE., SUITE 100, DENVER, CO 80202) FOR SAFETY PRACTICES PRIOR TO FABRICATION. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



FL / - / 4 / - / - / R / -		Scale = .5" / Ft.	
TC LL	20.0 PSF	REF	R487 - 63924
TC DL	10.0 PSF	DATE	11/03/06
BC DL	2.0 PSF	DRW	HCUSR487 06307086
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT. LD.	32.0 PSF	SEQN-	135302
DUR. FAC.	1.25		
SPACING	24.0"	URFF-	1T20487_201

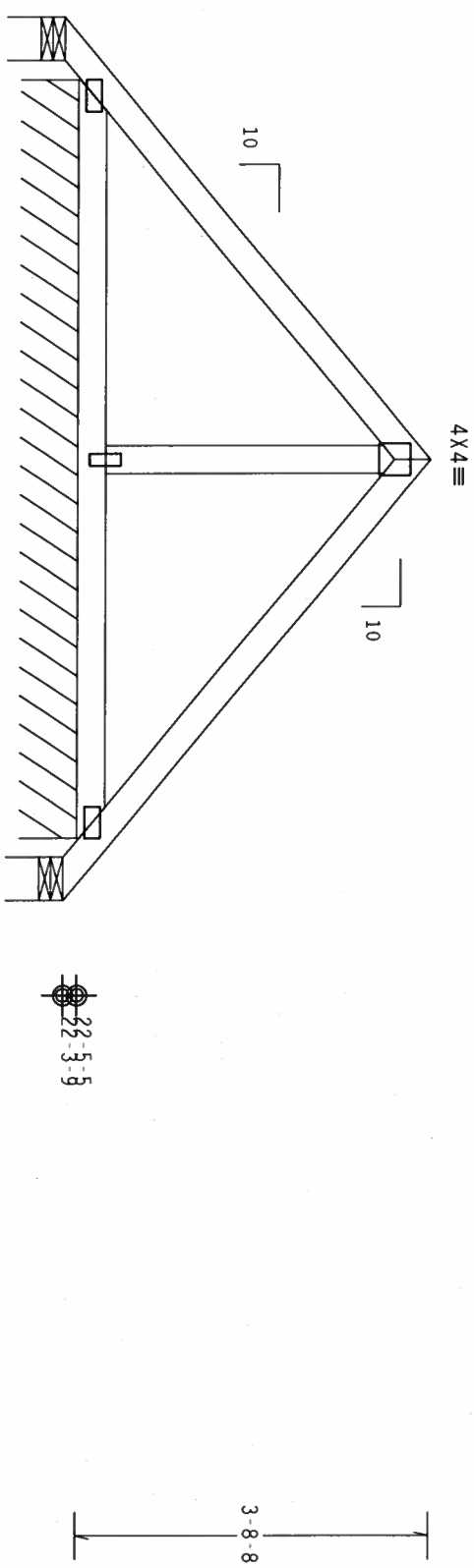
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC.  
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 24.22 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



2X4 (B1) ≡ 1.5X4 III 2X4 (B1) ≡  
3-11-10 3-11-10  
9-3-0 Over 3 Supports  
R=-68 U=180 W=5.467\*  
R=95 PLF U=44 PLF W=7-11-4  
R=-68 U=180 W=5.467\*

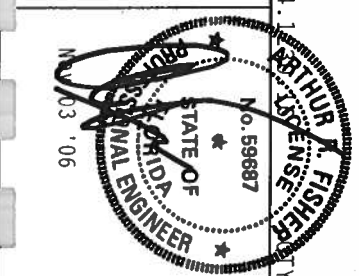
PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING CODE) AND BC32 (BUILDING CODE) FOR ADDITIONAL INFORMATION. 208 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND WITHIN 1000 FEET OF THE TRUSS CONNECTIONS. 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 AWS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/16GA (W/SS/SS) ASTM A653 GRADE 40/60 (W, K/H,SS) 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 A OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER AWS/TPI 1 SEC. 2.

ALPINE  
Alpine Engineered Products, Inc.  
1590 Marney Drive  
Haines City, FL 33844  
Certificat



TC LL	20.0 PSF	REF	R487--	63925
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	2.0 PSF	DRW	HCUSR487	06307087
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT. LD.	32.0 PSF	SEQN-	135475	
DUR. FAC.	1.25			
SPACING	24.0"			
		URFF-	1T20487_201	

Scale = .5"/ft.

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

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

Wind reactions based on MWFRS pressures.

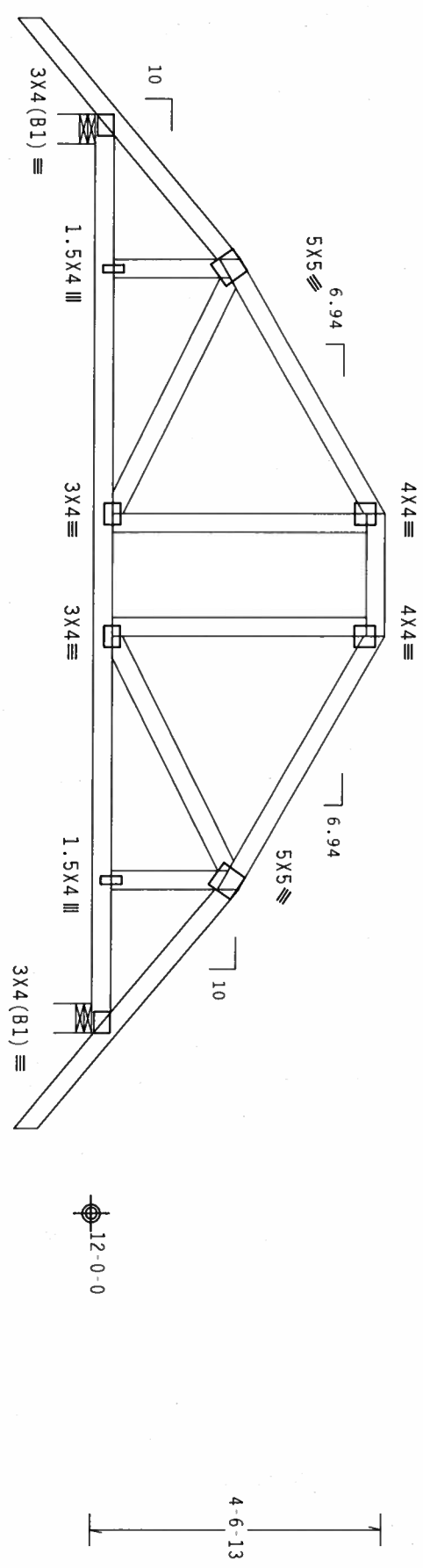
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

SPECIAL LOADS

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

TC - From	66 PLF at -1.50 to 2.26	66 PLF at 2.26 to 6.21
TC - From	63 PLF at 2.26 to 6.21	63 PLF at 6.21 to 12.08
TC - From	63 PLF at 6.21 to 12.08	66 PLF at 12.08 to 15.83
TC - From	66 PLF at 12.08 to 15.83	5 PLF at 15.83 to 20.00
BC - From	20 PLF at -0.00 to 14.33	5 PLF at 14.33 to 15.83
BC - From	5 PLF at 14.33 to 15.83	12.08
TC - 108 LB Conc.	Load at 4.64,	9.33
TC - 138 LB Conc.	Load at 6.21,	8.12
TC - 42 LB Conc.	Load at 11.80	9.33
BC - 41 LB Conc.	Load at 4.64,	8.12
BC - 48 LB Conc.	Load at 6.21,	8.01
BC - 53 LB Conc.	Load at 6.32,	
BC - 14 LB Conc.	Load at 11.80,	



1-6-0

2-3-1 3-11-7 1-10-15 3-11-7 2-3-1

14'-4" Over 2 Supports

R=1124 U=180 W=5.5"

R=1153 U=180 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I BUILDING CODES, SECTION 1604.2, AND 1604.3, AND 1604.4, AND 1604.5, AND 1604.6, AND 1604.7, AND 1604.8, AND 1604.9, AND 1604.10, AND 1604.11, AND 1604.12, AND 1604.13, AND 1604.14, AND 1604.15, AND 1604.16, AND 1604.17, AND 1604.18, AND 1604.19, AND 1604.20, AND 1604.21, AND 1604.22, AND 1604.23, AND 1604.24, AND 1604.25, AND 1604.26, AND 1604.27, AND 1604.28, AND 1604.29, AND 1604.30, AND 1604.31, AND 1604.32, AND 1604.33, AND 1604.34, AND 1604.35, AND 1604.36, AND 1604.37, AND 1604.38, AND 1604.39, AND 1604.40, AND 1604.41, AND 1604.42, AND 1604.43, AND 1604.44, AND 1604.45, AND 1604.46, AND 1604.47, AND 1604.48, AND 1604.49, AND 1604.50, AND 1604.51, AND 1604.52, AND 1604.53, AND 1604.54, AND 1604.55, AND 1604.56, AND 1604.57, AND 1604.58, AND 1604.59, AND 1604.60, AND 1604.61, AND 1604.62, AND 1604.63, AND 1604.64, AND 1604.65, AND 1604.66, AND 1604.67, AND 1604.68, AND 1604.69, AND 1604.70, AND 1604.71, AND 1604.72, AND 1604.73, AND 1604.74, AND 1604.75, AND 1604.76, AND 1604.77, AND 1604.78, AND 1604.79, AND 1604.80, AND 1604.81, AND 1604.82, AND 1604.83, AND 1604.84, AND 1604.85, AND 1604.86, AND 1604.87, AND 1604.88, AND 1604.89, AND 1604.90, AND 1604.91, AND 1604.92, AND 1604.93, AND 1604.94, AND 1604.95, AND 1604.96, AND 1604.97, AND 1604.98, AND 1604.99, AND 1604.100.

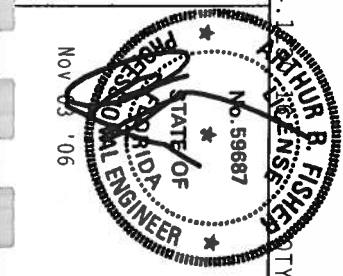
ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

Florida # 134915

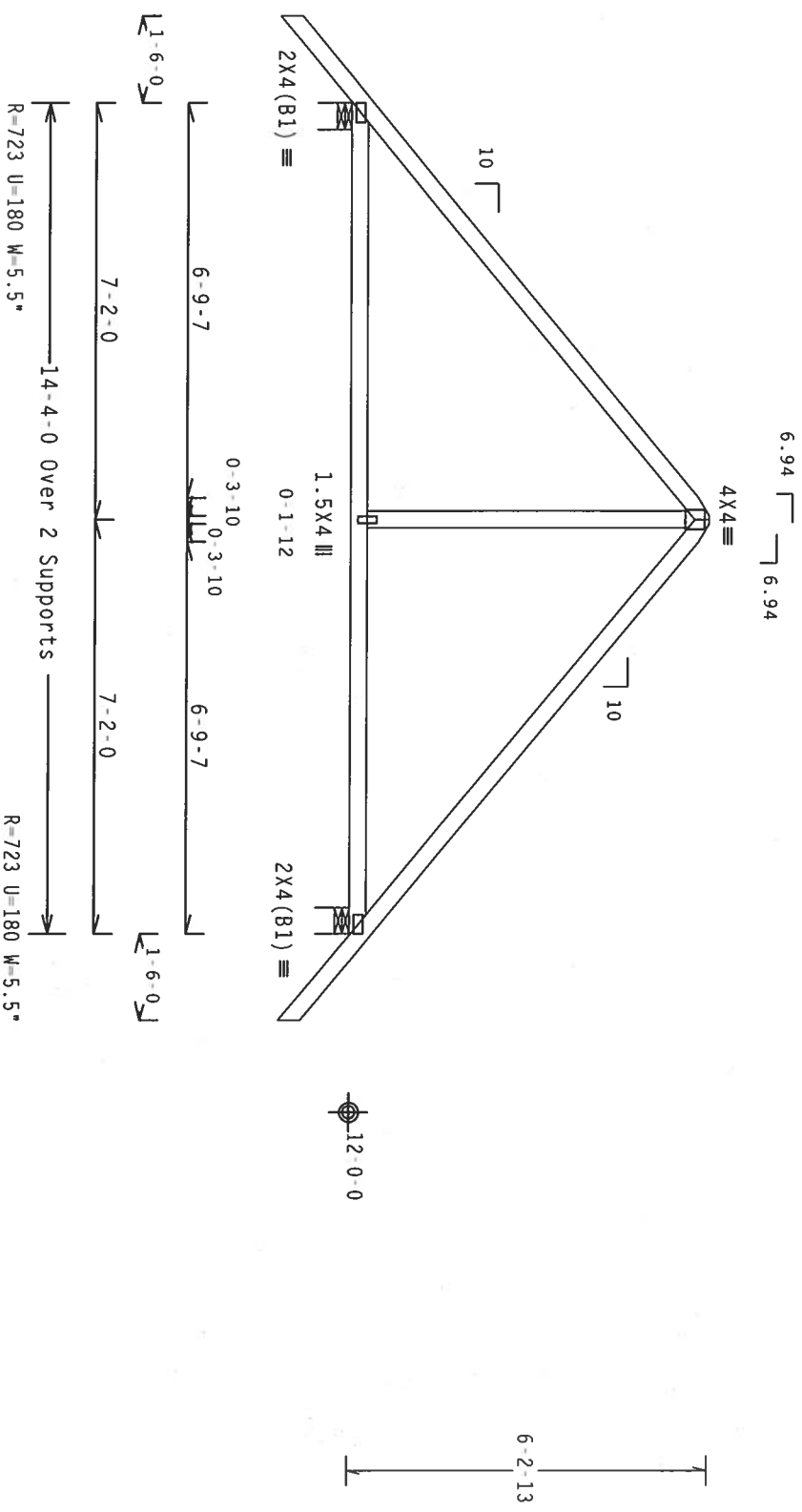


TC LL	20.0 PSF	REF R487 - 63926
TC DL	10.0 PSF	DATE 11/03/06
BC DL	10.0 PSF	DRW HCUSR487 06307088
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT. LD.	40.0 PSF	SEQN- 134915
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1T20487_201

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

Wind reactions based on MFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

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

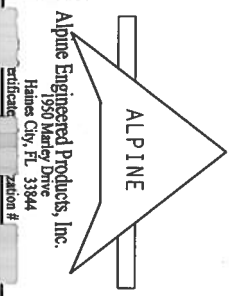
7.24.1

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

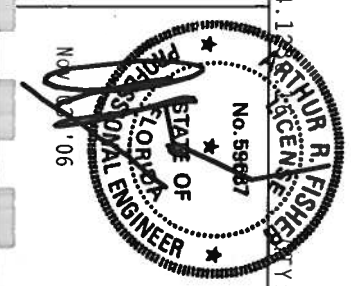
Scale = .3125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE THE FOLLOWING INFORMATION: PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 310, METCALA, IL 60059) AND TP2 (TRUSS COMPANY, 1500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMANCE OF CONSTRUCTION. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TP1. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1604 (W.N/55/S) ASTM A563 GRADE 40/60 (W. K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

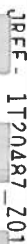


Alpine Engineered Products, Inc.  
1550 Marley Drive  
Haines City, FL 33844  
Certificate #



TC LL	20.0 PSF	REF	R487 - 63927
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307089
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT. LD.	40.0 PSF	SEQN	134921
DUR. FAC.	1.25		
SPACING	24.0"		

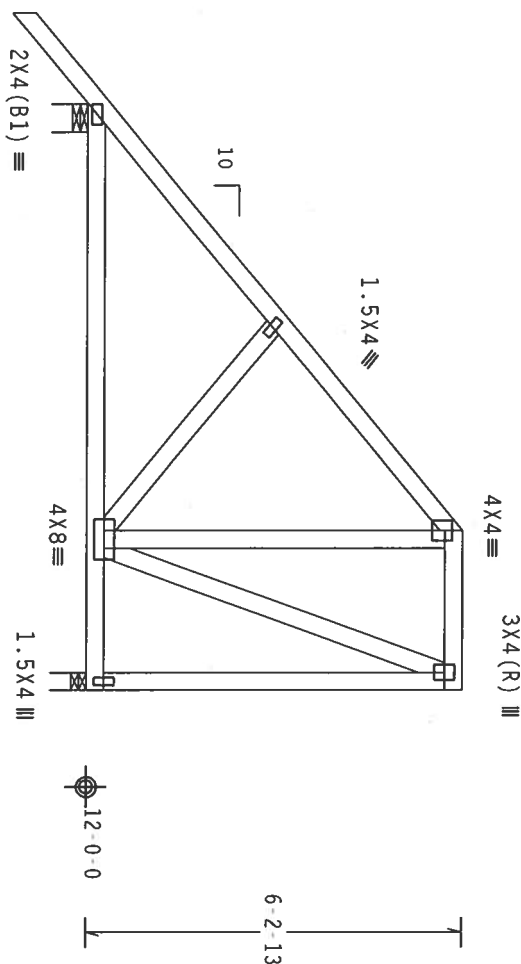
110 mph wind; 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



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

Right end vertical not exposed to wind pressure.

#1 hip supports 7-0-0 jacks with no webs.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



✓ 0-9 ✓

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

QTY:1 FL/4/R/

Scale = .3125"/ft.

\*\*\*WARNING\*\*\* THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (STEEL PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD CROSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MOISTON, VA, 53139 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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


PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, THEREIN COVERED HEREIN, UNLESS SPECIFICALLY NOTED OTHERWISE.

CONNECTOR PLATES ARE MADE OF 2018/16GA (W H/SS/Y) ASTM A563 GRADE 40/60 (W W/H SS) GALV STEEL APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIA/PA) AND TPI.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPII-2002 SEC. 3. A SEAL ON THIS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

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/7PI 1 SEC. 2.



**ALPINE**  
**Engineered Products, Inc.**  
 1950 Maple Drive  
 Haines City, FL 33884  
 Telephone # \_\_\_\_\_  
 Telex # \_\_\_\_\_  
 Fax # \_\_\_\_\_

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 DESIGN IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACKING TRUSSES, TRUSSES, PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN OR PER BUILDING CODES, SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENTRY DESIGNER PER ANSI/TPI 1 SEC. 2.

A circular professional engineer seal for Arthur R. Fishch, State of Florida, No. 59687. The seal includes the text "PROFESSIONAL ENGINEER", "STATE OF FLORIDA", and "No. 59687". A handwritten signature "Arthur R. Fishch" is written across the seal. To the left of the seal, the text "No. 007 '06" is written vertically.

Scale = .3125"/Ft.	
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"
REF	R487 - 63929
DATE	11/03/06
DRW	HCUSR487 06307091
HC-ENG	DAL/AF
SEQN	135247
JREF	1T020487_Z01

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

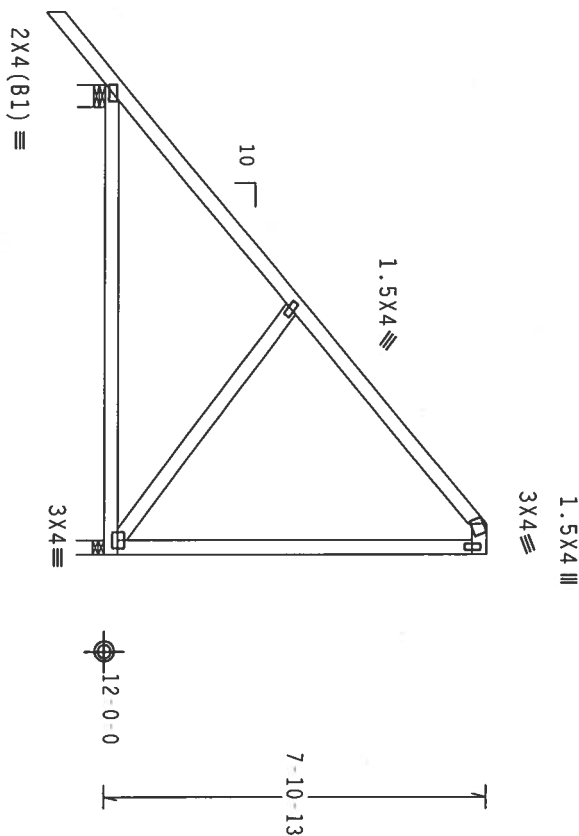
Wind reactions based on MFERS pressures.

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

110 mph wind, 15.53 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



9-0-0  
0-7-8  
1-6-0  
10  
7-10-13  
12-0-0  
9-7-8 Over 2 Supports  
R=537 U=180 W=5.5" R=398 U=180 W=3.5"

PLT TYP. Wave

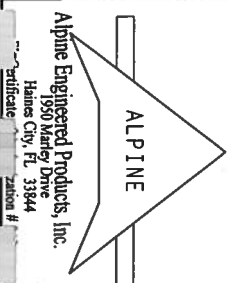
Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.12

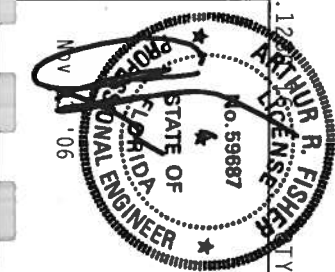
Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES MUST BE DESIGNED AND ENGINEERED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, 218 NORTH LE STREET, SUITE 200, CHICAGO, ILL. 60601. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND INSURANCE. 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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/160A (W, H/SS/S) ASTM A653 GRADE 40/60 (W, K/H, SS) 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 TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNER. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A3 OF TPI1-2002 SEC.3.



Alpine Engineered Products, Inc.  
850 Marley Drive  
Haines City, FL 33844  
Certification #



TC LL	20.0 PSF	REF	R487--	63930
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCUSR487	06307092
BC LL	0.0 PSF	HC-ENG	DAL/AF	*
TOT. LD.	40.0 PSF	SEQN-	135266	
DUR. FAC.	1.25			
SPACING	24.0"			

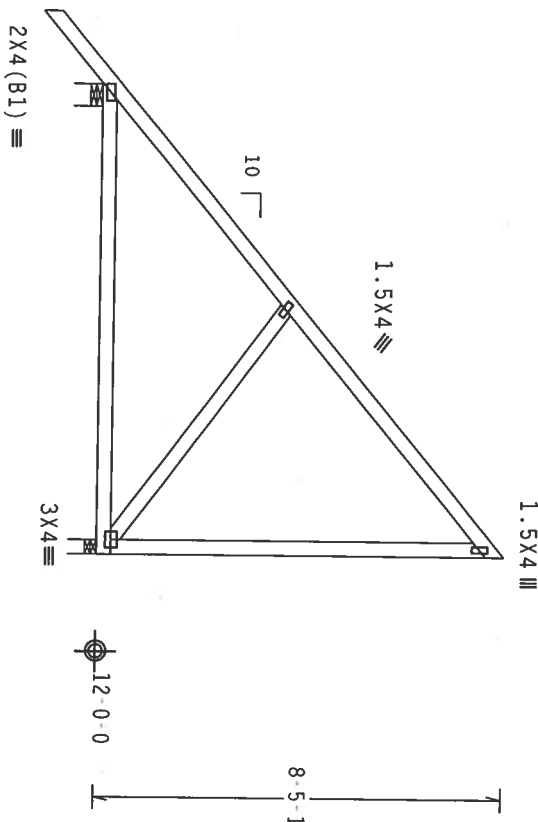
JREF- 1T20487\_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.79 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



9-7-8 Over 2 Supports  
R=537 U=180 W=5.5" R=398 U=180 W=3.5"

PLT TYP. Wave

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

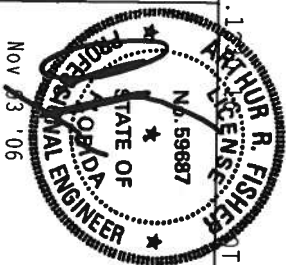
\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE OF AMERICA), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, 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 APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AREA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA IN J/S/S. (NATIONAL DESIGN SPEC. BY AREA AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THE DRAWING PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002, SECTION 2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

FL Certificate of Authorization # 567



Scale = .25"/ft.

FL - 1/4" - 1/8" - 1/16" - 1/32" - 1/64" - 1/128" - 1/256" - 1/512" - 1/1024" - 1/2048" - 1/4096" - 1/8192" - 1/16384" - 1/32768" - 1/65536" - 1/131072" - 1/262144" - 1/524288" - 1/1048576" - 1/2097152" - 1/4194304" - 1/8388608" - 1/16777216" - 1/33554432" - 1/67108864" - 1/134217728" - 1/268435456" - 1/536870912" - 1/1073741824" - 1/2147483648" - 1/4294967296" - 1/8589934592" - 1/17179869184" - 1/34359738368" - 1/68719476736" - 1/137438953472" - 1/274877906944" - 1/549755813888" - 1/1099511627776" - 1/2199023255552" - 1/4398046511104" - 1/8796093022208" - 1/17592186044416" - 1/35184372088832" - 1/70368744177664" - 1/140737488355328" - 1/281474976710656" - 1/562949953421312" - 1/1125899906842624" - 1/2251799813685248" - 1/4503599627370496" - 1/9007199254740992" - 1/18014398509481984" - 1/36028797018963968" - 1/72057594037927936" - 1/144115188075855872" - 1/288230376151711744" - 1/576460752303423488" - 1/1152921504606846976" - 1/2305843009213693952" - 1/4611686018427387904" - 1/9223372036854775808" - 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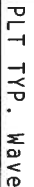
110 mph wind, 19.60 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1-5.0 psf, wind BC D1-5.0 psf

Wind reactions based on MWFRS pressures.

(J) hanger connection not found in inventory file for this condition. Provide connection.

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

Provide for complete drainage of roof.

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

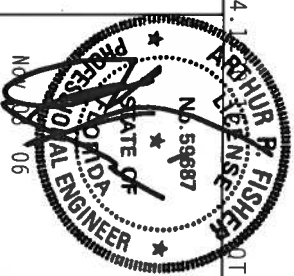
FL/-/4/-/-/R/-

Scale = .1875"/ft.

FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

Alpine Engineered Products, Inc.  
1050 Marley Drive

1550 Mainly Drive  
Haines City, FL 3384



TC LL	20.0 PSF	REF	R487 - - 63932
TC DL	10.0 PSF	DATE	11/03/06
BC DL	10.0 PSF	DRW	HCUSR487 06307094
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN-	135457
DUR.FAC.	1.25		
SPACING	24.0"	URFF-	1T20487_201

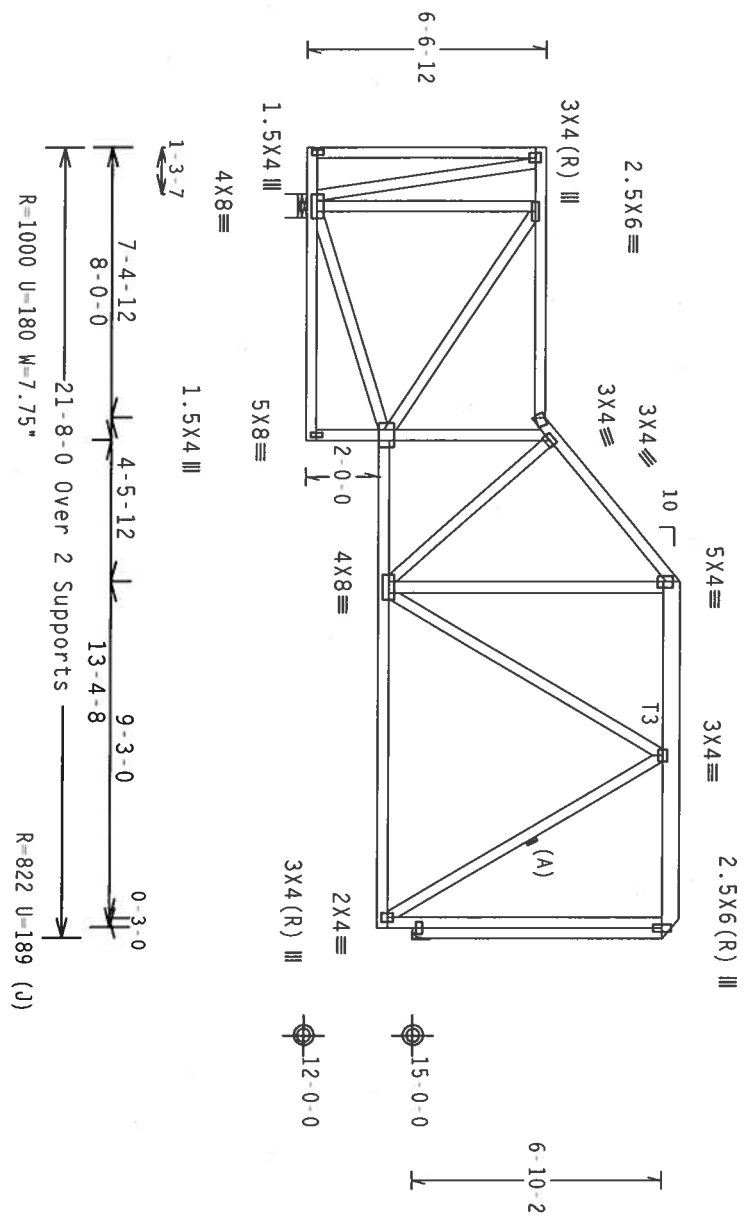
Top chord 2x4 SP #2 Dense :T3 2x6 SP #2:  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Rt Bearing Leg 2x4 SP #3:

Left end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 20.43 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Wind reactions based on MMFRS pressures.  
(J) hanger connection not found in inventory file for this condition. Provide connection.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

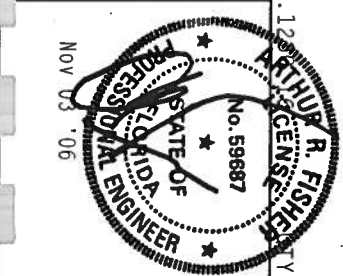
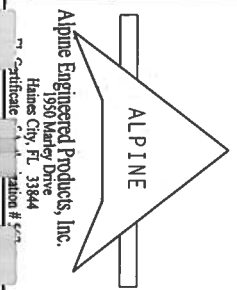


PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY) INFORMATION, SECTION 1.1.1, FOR A COMPLETE LIST OF REFERENCES. 5206 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 5206 ENTERPRISE LANE, MADISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ALL TRUSS CONNECTIONS SHALL BE PERMANENT AS OF 1/11/2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	63933
TC DL	10.0 PSF	DATE	11/03/06	
BC DL	10.0 PSF	DRW	HCSR487	06307095
BC LL	0.0 PSF	HC-ENG	DAL/AF	
TOT.LD.	40.0 PSF	SEQN-	135470	
DUR.FAC.	1.25			
SPACING	24.0"			

Scale = 1/8" = 1'-0"	JREF - 1T20487_201
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# CLB WEB BRACE SUBSTITUTION

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

## NOTES:

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

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

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

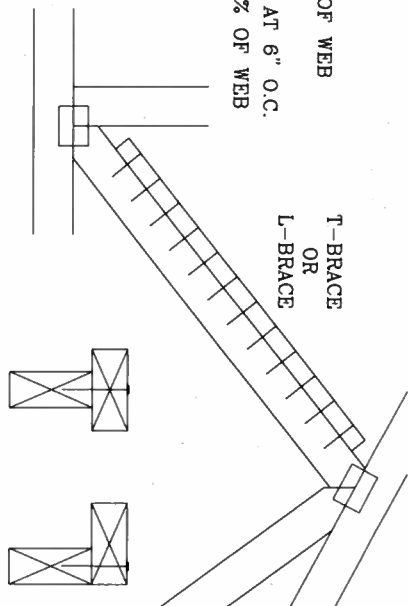
T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

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

T-BRACING  
OR  
L-BRACING:

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

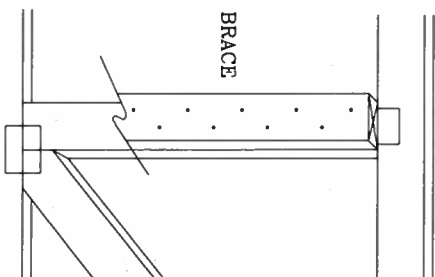
T-BRACE  
OR  
L-BRACE



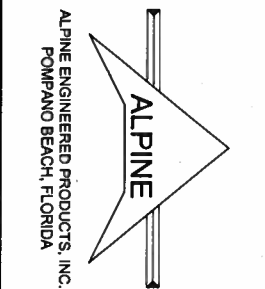
SCAB BRACING:

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

SCAB BRACE

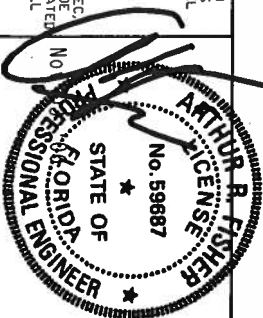


THIS DRAWING REPLACES DRAWING 579,640



\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 BROADRIDGE DR., SUITE 200, HANSDEN, VI. 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. ENGINEER, ARCHITECT, AND OWNER SHALL HAVE A PROPERLY ATTACHED RIGID ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. 44/45) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/2166a C/H/S/7X ASTM A552 GRADE 44/45. ALL TRUSS TO END JOINTS AND ALL TRUSS JOINTS SHALL BE INSPECTED AND ACCEPTANCE OF THIS DESIGN POSITION PER DRAWING 100A-2. ANY INSPECTION AND ACCEPTANCE OF THIS DESIGN SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SILENTLY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCBLSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

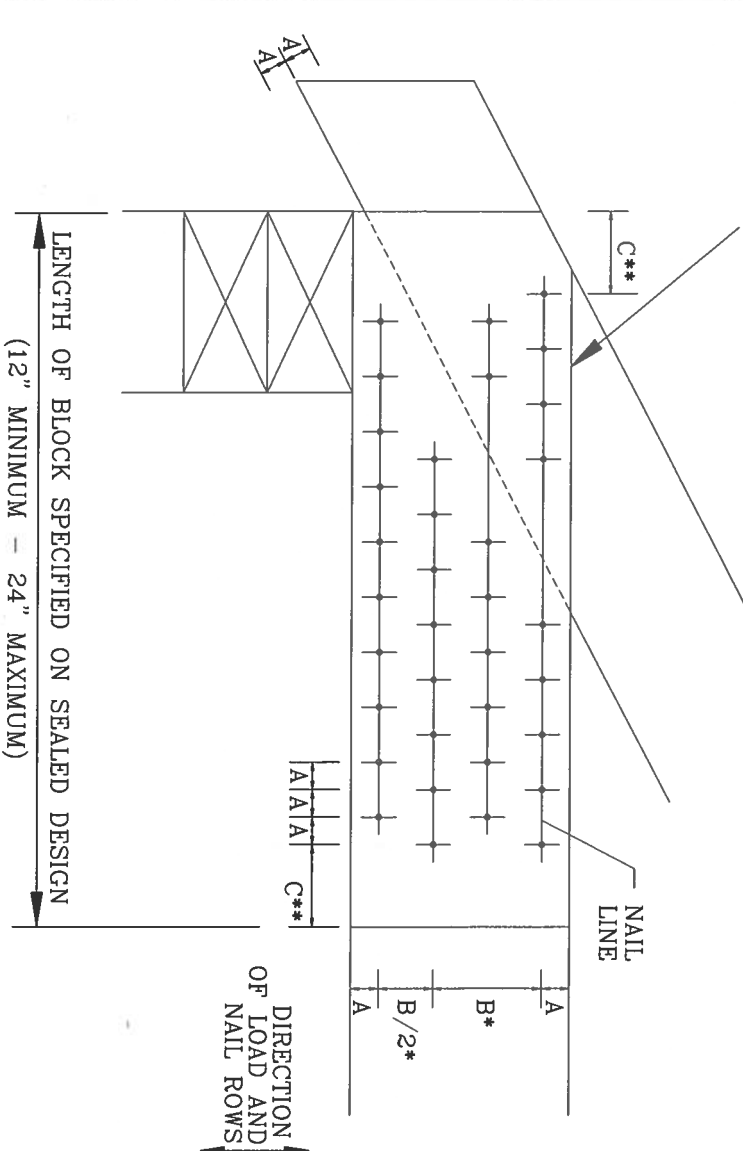
# BEARING BLOCK NAIL SPACING DETAIL

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

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

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

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



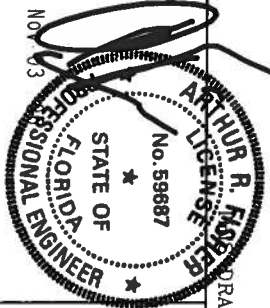
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN.

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

## MINIMUM NAIL SPACING DISTANCES

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

DRAWING REPLACES DRAWING B139 AND CNBRCBLK0699



ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

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

# PIGGYBACK DETAIL

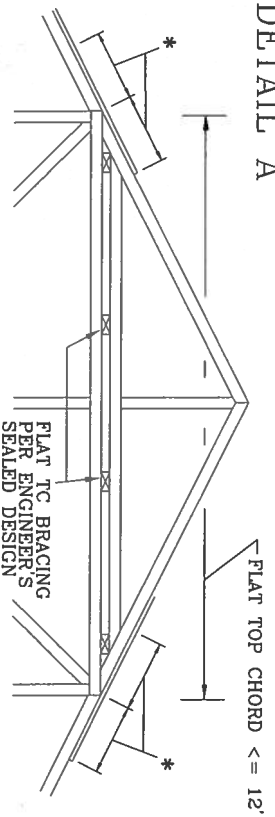
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG.  
LOCATED ANYWHERE IN ROOF, CAT II, EXP C.  
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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

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

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

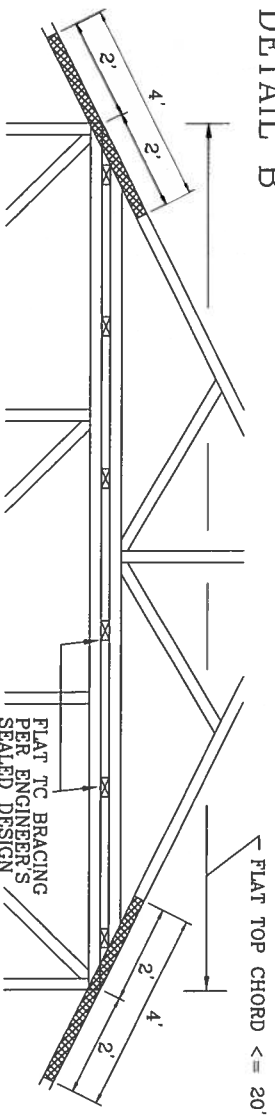
## DETAIL A



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

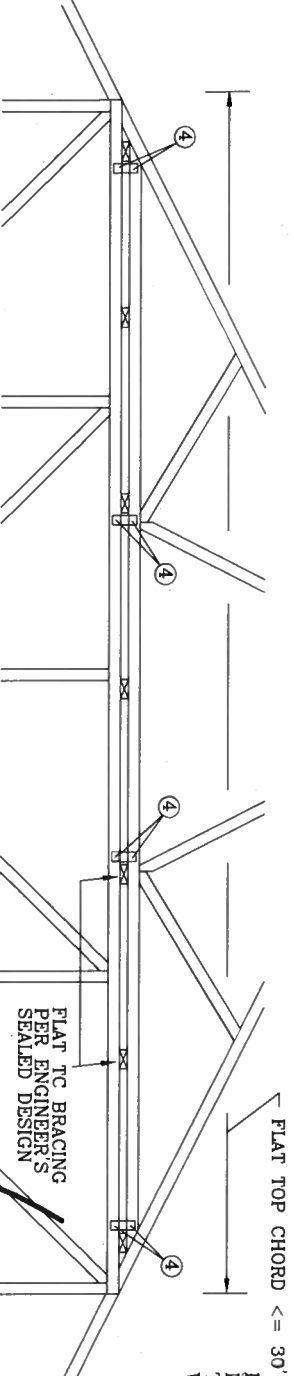
\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

## DETAIL B



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

## DETAIL C



CAP TRUSS TOENAILLED TO TOP CHORD BRACING AND SECURED WITH 3x8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 1607L FOR TRULOX INFORMATION.

IN LIEU OF TRULOX CONNECTORS, ALPINE 6223 SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.

(4) 8d COMMON NAILS (0.131"x2.5")

8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES. ATTACH WITH (6) 8d COMMON NAILS PER GUSSET. (4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

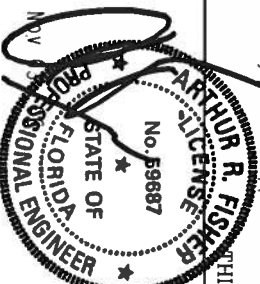
THIS DRAWING REPLACES DRAWINGS 581.670 & 961.860

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

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TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGGYBACK0405
BC LL	PSF	-ENG	DLJ/KAR
TOT. LD.	MAX 60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		

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

# PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

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

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C,

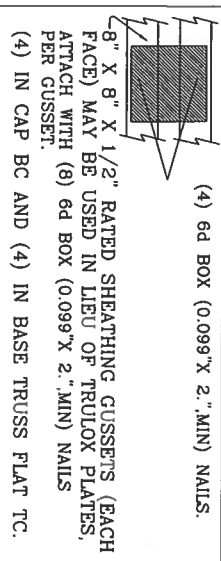
WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

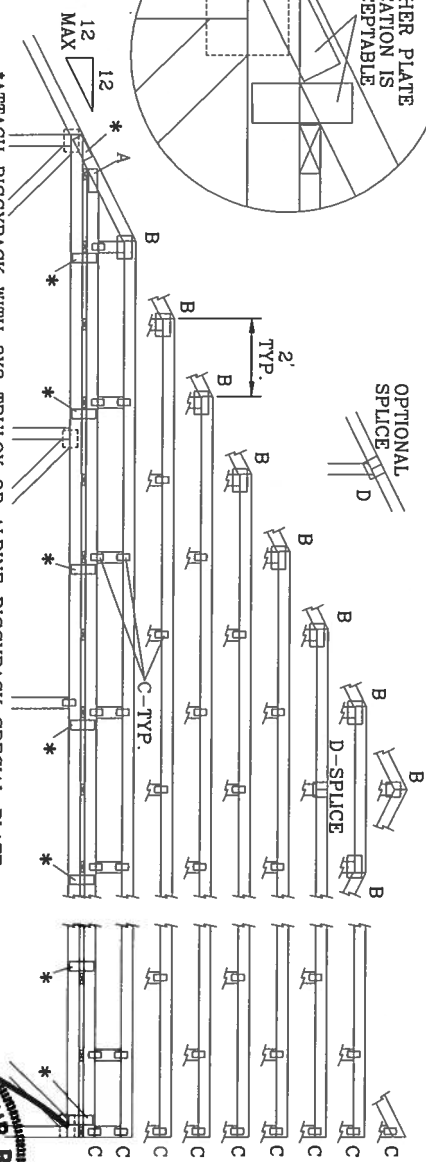
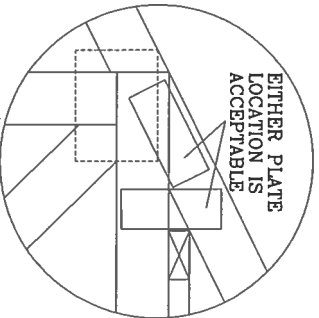
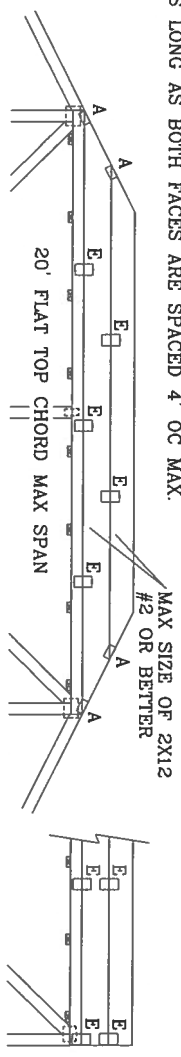
WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

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



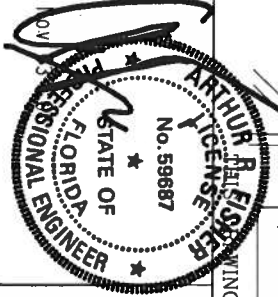
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			



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

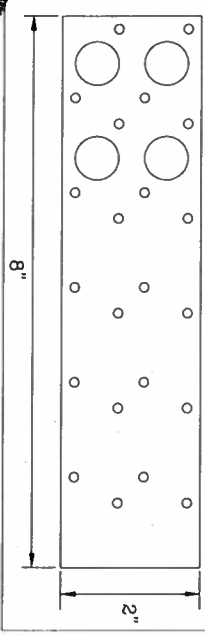
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WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113 X 2.5 MIN) NAILS AT 4' OC.
10' TO 14'	2x4 "T" BRACE, SAME GRADE, SPECIES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

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



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



ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA