

# 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: IT14487-Z0102081253

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-309--Owner\_Builder James Kesterke -- , \*\*  
Truss Count: 26  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.24.  
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 - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

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

Details: TCFILLER-BCFILLER-BRCLBSUB-CNBRGBLK-

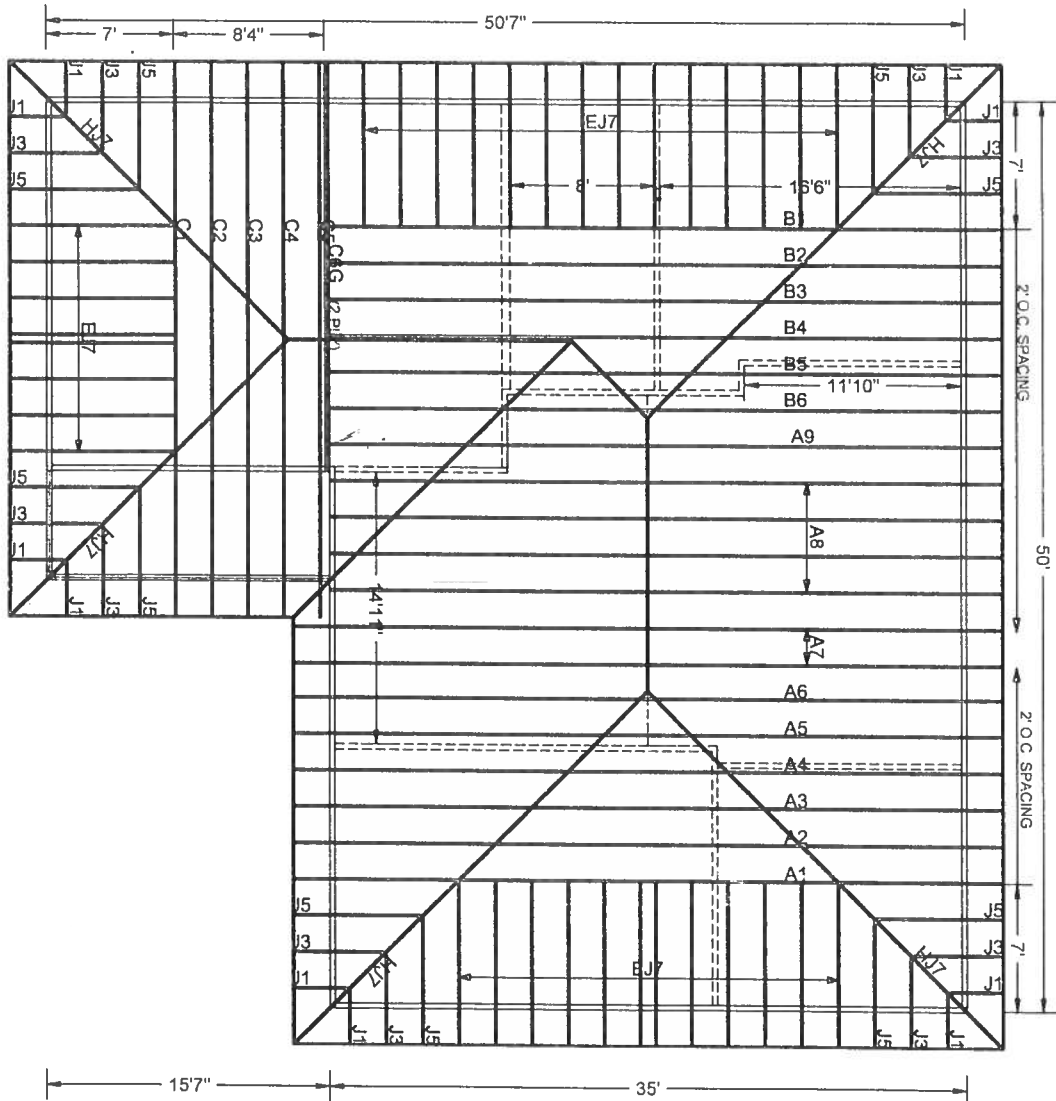


Seal Date: 10/02/2006

-Truss Design Engineer-  
Arthur R. Fisher  
Florida License Number: 59687  
1950 Marley Drive  
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	32037--A1		06275049	10/02/06
2	32038--A2		06275011	10/02/06
3	32039--A3		06275012	10/02/06
4	32040--A4		06275013	10/02/06
5	32041--A5		06275014	10/02/06
6	32042--A6		06275046	10/02/06
7	32043--A7		06275007	10/02/06
8	32044--A8		06275010	10/02/06
9	32045--A9		06275008	10/02/06
10	32046--B1		06275047	10/02/06
11	32047--B2		06275003	10/02/06
12	32048--B3		06275004	10/02/06
13	32049--B4		06275005	10/02/06
14	32050--B5		06275006	10/02/06
15	32051--B6		06275045	10/02/06
16	32052--C1		06275050	10/02/06
17	32053--C2		06275009	10/02/06
18	32054--C3		06275015	10/02/06
19	32055--C4		06275016	10/02/06
20	32056--C5		06275017	10/02/06
21	32057--C6G		06275048	10/02/06
22	32058--HJ7		06275018	10/02/06
23	32059--EJ7		06275002	10/02/06
24	32060--J5		06275019	10/02/06
25	32061--J3		06275020	10/02/06
26	32062--J1		06275001	10/02/06





Scale: 3/32" = 1'

#6-309 JAMES KESTERKE

10/2/06

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

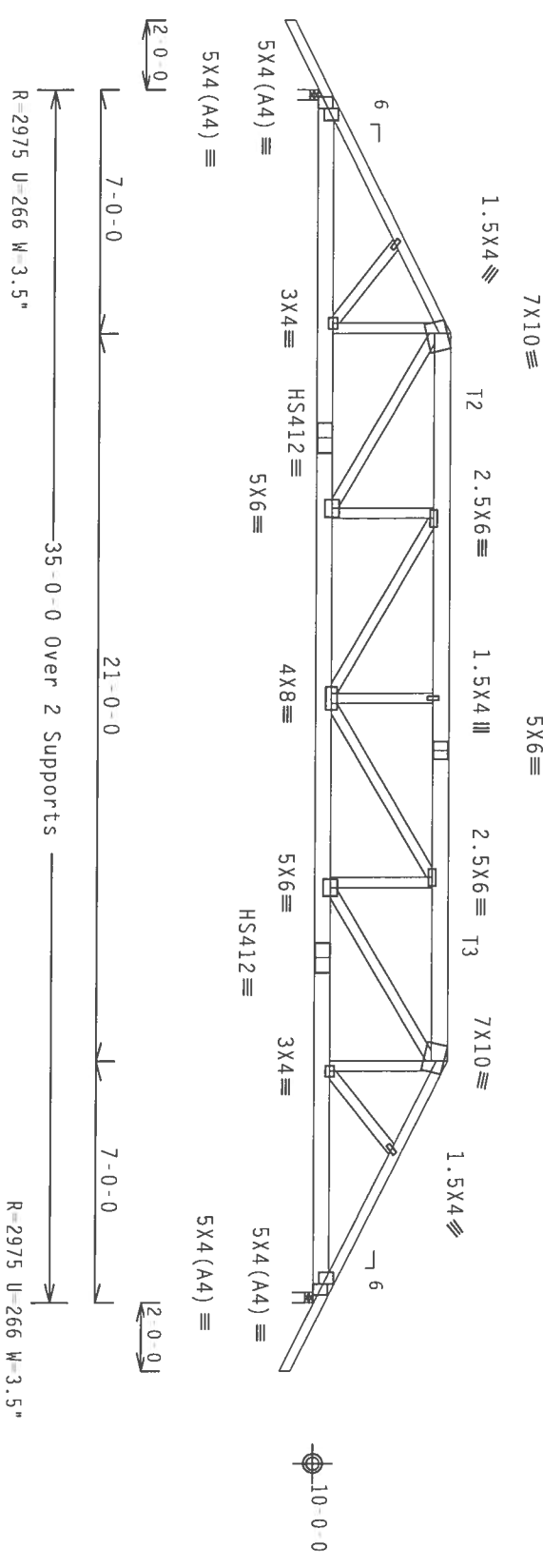
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

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

#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.



PLT TYP. 20 Gauge HS,Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

Scale = .1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

Phone: 888-222-2222

Fax: 888-222-2222

Website: www.alpine-engineered.com

Professional Engineer

State of Florida

No. 59687

02/06

TC LL	20.0 PSF	REF R487-- 32037
TC DL	10.0 PSF	DATE 10/02/06
BC DL	10.0 PSF	DRW HCUSR487 06275049
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 129965
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T14A87-201

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

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

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


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

OTY:1

Scale = .1875"/Ft.

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

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 P11 2002 SEC.3. A SEAL ON THIS

1950 Marley Drive  
Haines City, FL 33844

artifical      zation #

TC LL	20.0 PSF	REF R487 - 32038
TC DL	10.0 PSF	DATE 10/02/06
BC DL	10.0 PSF	DRW HCURS487 06275011
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 16294
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TJ4487 201

JRFF-1T14487-201

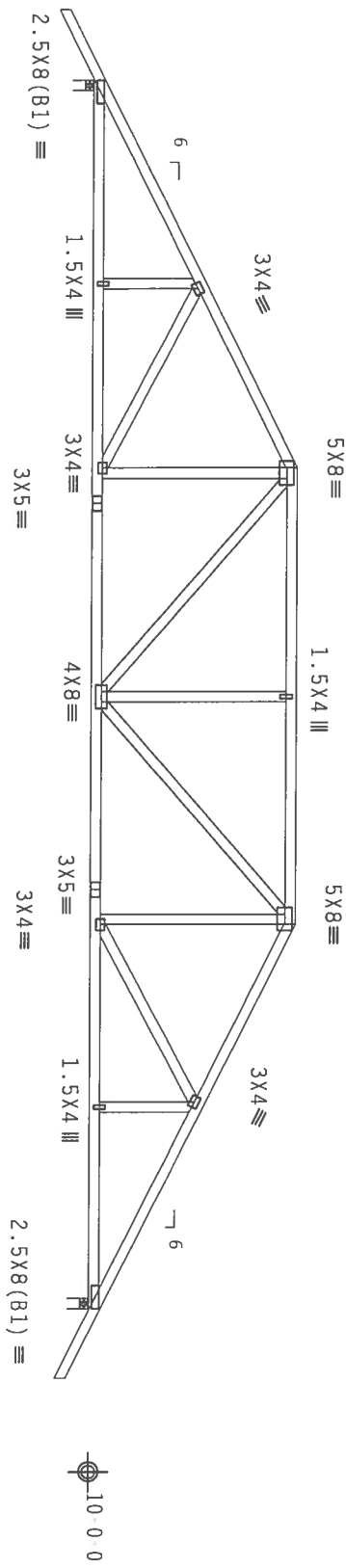
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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.



11'-0'-0  
13'-0'-0  
11'-0'-0  
35'-0'-0 Over 2 Supports  
R=15/75 U=180 W=3.5"

PLT TYP. Wave

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

FL/-/4/-/R/-

Scale = .1875"/ft.

ALPINE

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BESET 1.03 (BUILDING COMPONENT SAFETY INFORMATION), CONSULTING ENGINEER, PROFESSIONAL ENGINEER, HADISON, 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 APA) AND TPI. ALPINE CONNECTION PLANS ARE MADE OF 20/18/16GA (W/H/S/S) ASH K653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY ALL RELEVANT TREATMENTS TO ALL EXPOSED SURFACES. (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

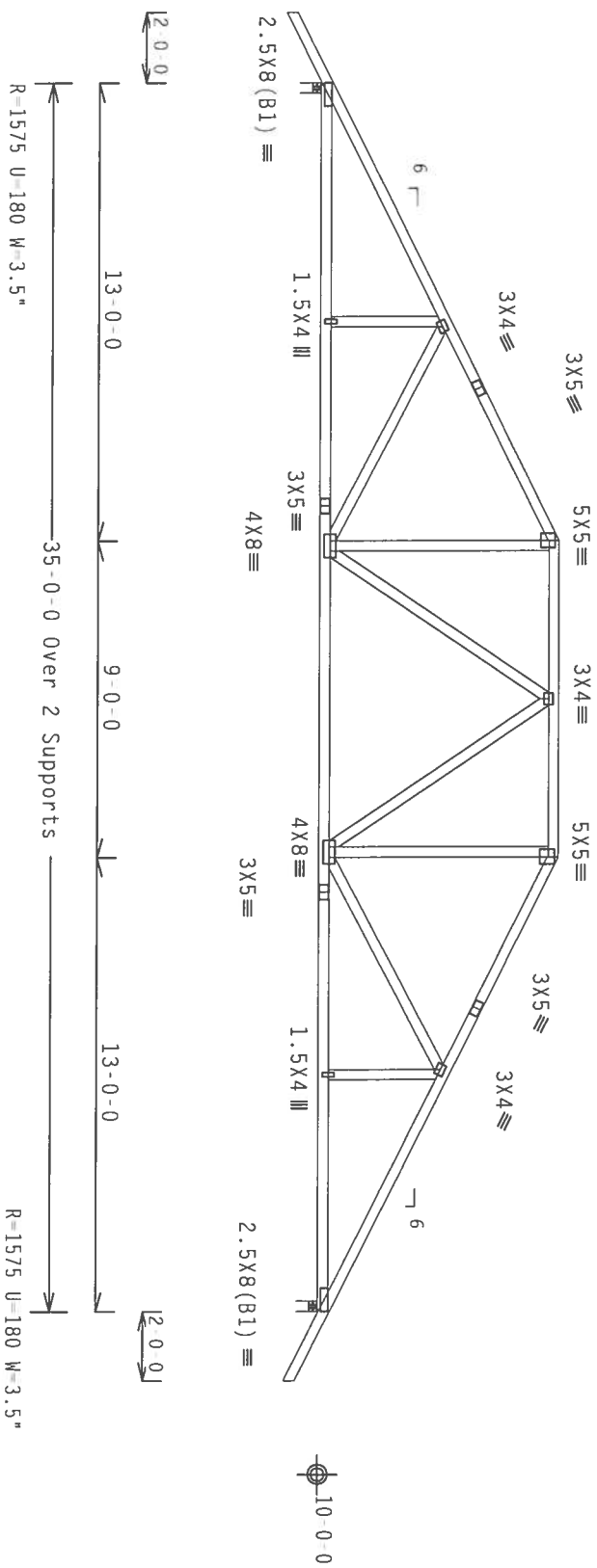
ARTHUR R. FISHER  
No. 59687  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
06/02/06

TC LL	20.0 PSF	REF R487-32039
TC DL	10.0 PSF	DATE 10/02/06
BC DL	10.0 PSF	DRW HCUSR487 06275012
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 16295
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T14A87_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.

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.



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

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

7.24.18

FL/4/1/R/1

Scale = .1875"/Ft

\*"WARNING" FRAMES, REQUIRING EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICE REFER TO ACES 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE CHURCH & DWIGHT PUBLISHING, 5800 UNIVERSITY AVENUE, SUITE 200, HANOVER, MI 48190, AND NICK (GOOD HOUSEKEEPING), 4152799, AND NICK (GOOD HOUSEKEEPING), 4152799, PRIOR TO PERFORMING THESE CONDUITS. UNLESS OTHERWISE INDICATED, ALL CHURCH & DWIGHT SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ALPINE ENGINEERING, INC. **THIS DESIGN MAY BE REPRODUCED FOR YOUR OWN USE ONLY. IT IS NOT TO BE REPRODUCED FOR ANY OTHER PURPOSE.**

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

CONDUCTOR PLATE MADE OF 20/18/1664 (N./H./S/E) ASTM A653 GRADE 40/60 (N. K./H./S) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS SIDE OF TRUSS TO 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.

[illegible]

TC LL	20.0 PSF	REF	R487 - 32040
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCUSR487 06275013
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	16296
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TJ4A87_201

Wind reactions based on MIFRS pressures.

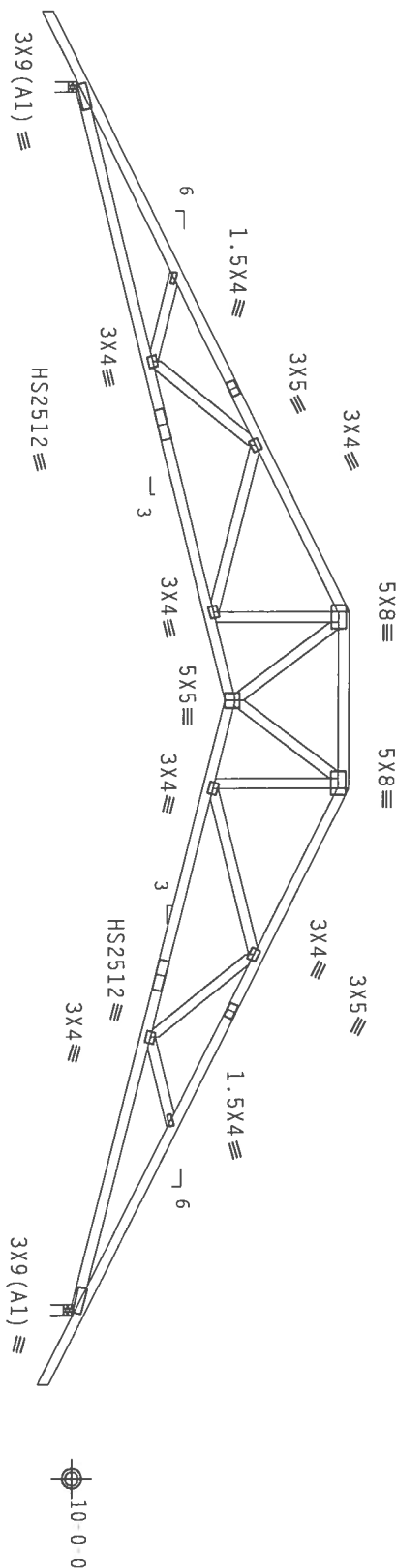
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Calculated vertical deflection is 0.44" due to live load and 0.68" due to dead load at  $X = 17-6-0$ .

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.

Calculated horizontal deflection is 0.31" due to live load and 0.49" due to dead load.

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



15'-0" 0  
 17'-6" 0  
 5'-0" 0  
 15'-0" 0  
 17'-6" 0  
 35'-0" 0 Over 2 Supports  
 R-1585 U-180 W=3.5"  
 R-1586 U-180 W=3.5"  
 12' 0" 0

PLT TYP. 20 Gauge HS, Wave

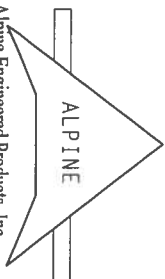
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

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

QTY:1

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

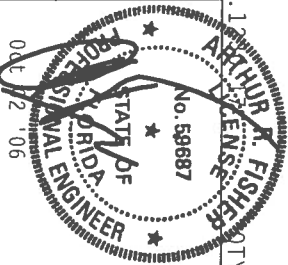
Scale = .1875"/Ft.



Alpine Engineered Products, Inc.  
1850 Market Drive

Haines City, FL 33844

\* **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 CONFORMANCE WITH THE SPECIFICATIONS FOR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF THUSSES, CONNECTION PLATES AND PLATES TO EACH FACE OF THUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1606-2 PLATES TO EACH FACE OF THUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1606-2 AND AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF (1) 2002 SEC. 2. THE SEAL ON THIS DESIGN SECTION SHOWS THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AS/1/PET 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 32041
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCUSR487 06275014
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	16297
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T14A87_201

Webs 2x4 SP #3

Calculated horizontal deflection is 0.31" due to live load and 0.48" due to dead load.

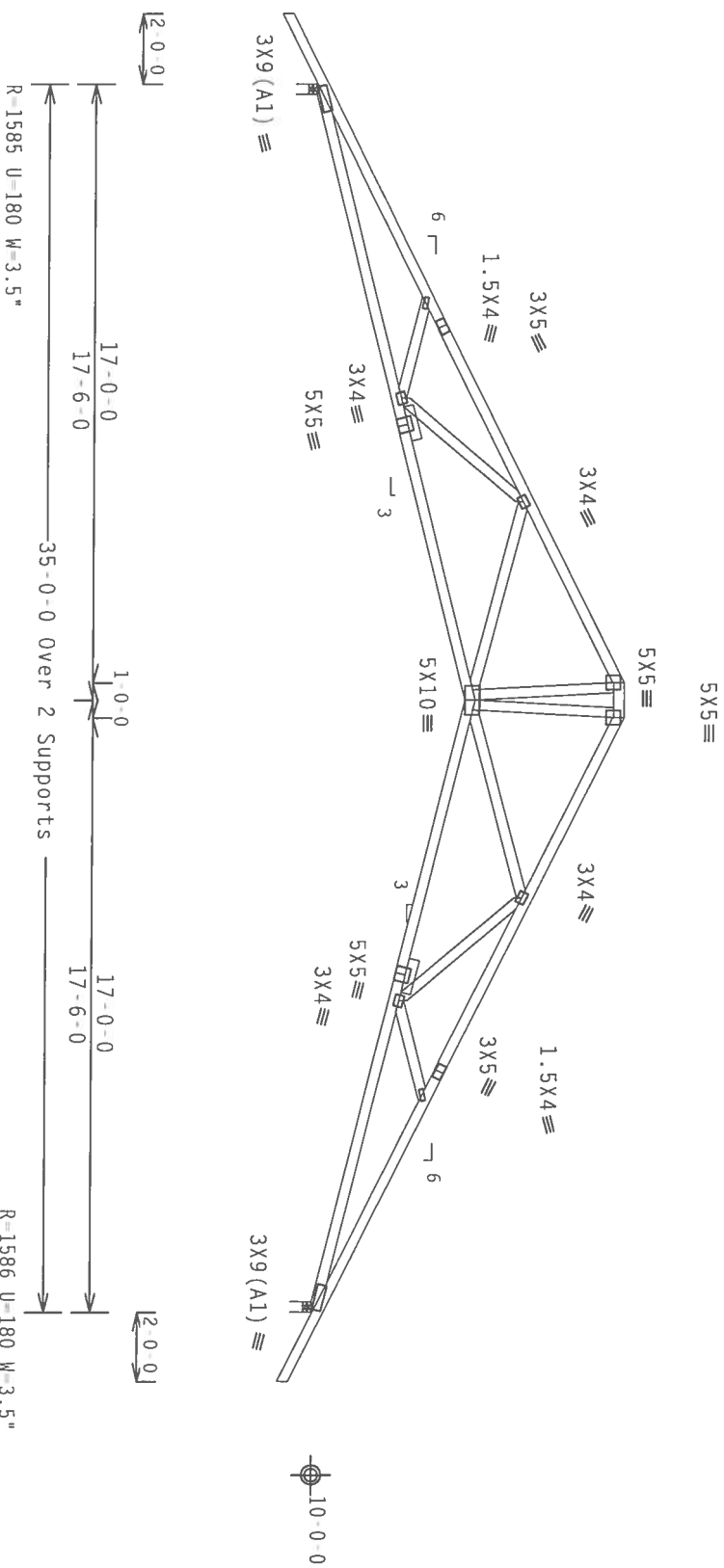
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 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 MMFRS pressures.

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

Calculated vertical deflection is 0.43" due to live load and 0.67" due to dead load at X = 17'-6.0".



Scale = .1875"/Ft.

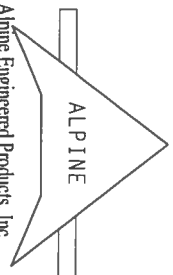
\*\*\*WARNING\*\*\* FUSES REQUIRED EXTERIOR CASE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DESIG 1-0 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TERRACE PLASTIC INSTITUTE, 503 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND TPCA (WOOD FUSES COUNCIL OF AMERICA, 6150 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTLES 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. AND, WITHOUT LIMITATION, THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN.

IN ORDER TO BE RESPONSIBLE FOR ANY VIOLATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS TO CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHEPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE

CORRECTION PLATES MADE OF 20/18/16/104 (M/H/S/5) ASH ARE ASSIGNED 40/60 (N, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED ON THIS DESIGN, POSITION PER DRAWINGS 1604-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4 OF IP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEE FOR THE TRUSS COMPONENTS.

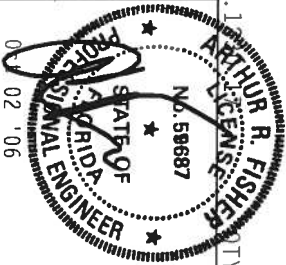
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/SPR 1 SEC. 2.



Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, Fl. 33844

Certificate of Authorization # 449



TC LL	20.0 PSF	REF	R487 -- 32042
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCSUR487 06275046
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	129984
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TJ487_201

JRFF - ITJ4487 Z01



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

Wind reactions based on MMFRS pressures.

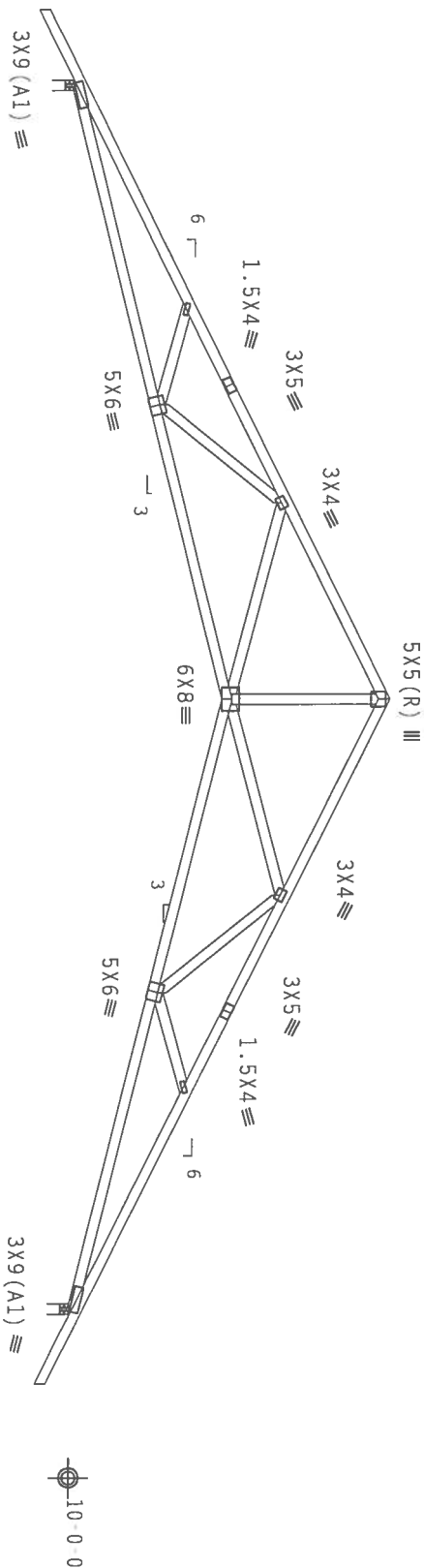
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Calculated vertical deflection is 0.44" due to live load and 0.68" due to dead load at  $X = 17-6-0$ .

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.

Calculated horizontal deflection is 0.32" due to live load and 0.49" due to dead load.

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



200

12-0-0

Elevation view of a beam with the following dimensions and specifications:
 

- Top flange width: 17'-6" (left) and 17'-6" (right)
- Web height: 35'-0" (labeled "Over 2 Supports")
- Material: R=1585 U=180 W=3.5" (indicated at both ends)

R=1585 U=180 W=3.5"

PLT TYP. Wave

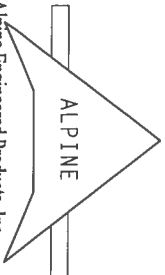
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

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

7.24.1

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

Scale = .1875"/Ft.



Alpine Engineered Products, Inc.

Haines City, FL 33844

Certificate of Authorization # 447

\*WARNING\* THESE RESIDUE EXISTING GASES (FIBERGLASS, MOLDING, SHIPPING, INSTALLING, AND PACKAGING) REFER TO MSD-1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS LITE INSTITUTE, 560 D. O'ROURD RD., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SPECIFIC PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*WARNING\* MAINTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPHINE ENGINEERED PRODUCTS, INC. 2000 N. 10TH AVE. SUITE 200, MADISON, WI 53717

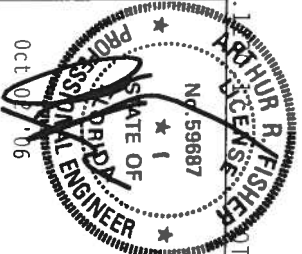
ALPINE ENGINEERED

PROVIDING THE SAME LEVEL OF RESPONSIBILITY FOR ALL DETAILING 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

CONNECTION PLATES ARE MADE OF 20/18/16GA (M./M./S/K) ASTM A653 GRADE 40/60 (M. K/H/S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2  
ANY DISCREPANCY OF PLATES COLOURED BY (1) SHALL BE RECORDED AS OF THIS 2009 ETC.

DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT DRAINING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. A SEAL ON THIS

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - - 32043
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HGUSR487 06275007
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	16293
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TJ487_201

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

Wind reactions based on MMFRS pressures.

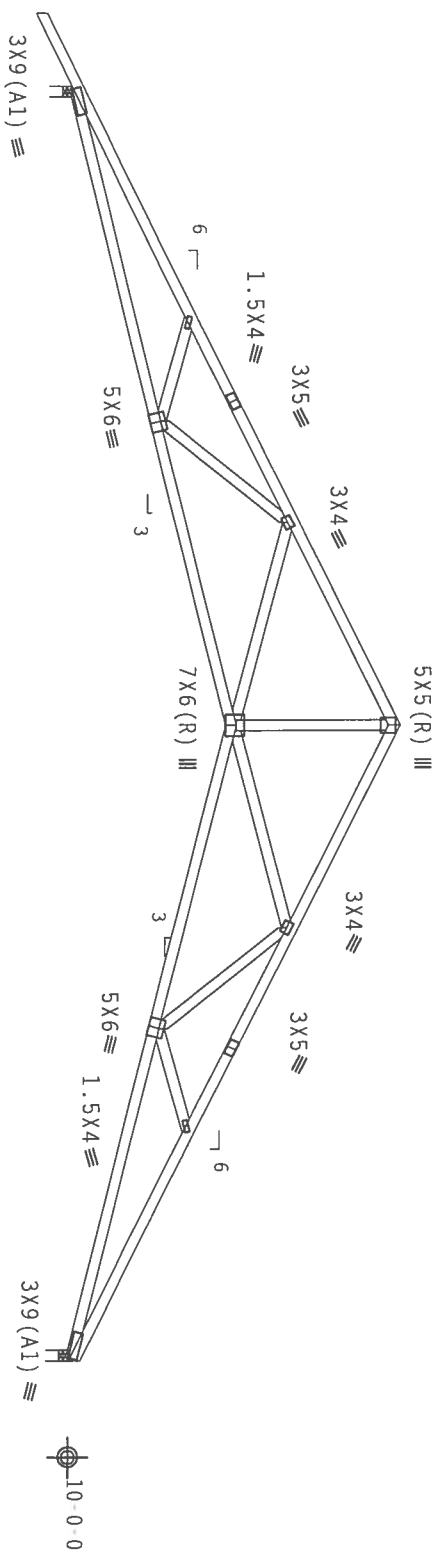
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Calculated vertical deflection is 0.43" due to live load and 0.69" due to dead load at X = 17-6-0.

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.

Calculated horizontal deflection is 0.31" due to live load and 0.49" due to dead load.

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



17-6-0  
35-0-0 Over 2 Supports  
17-6-0  
R-1589 U=180 W=3.5"  
R-1447 U=180 W=3.5"

PLT TYP. Wave

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

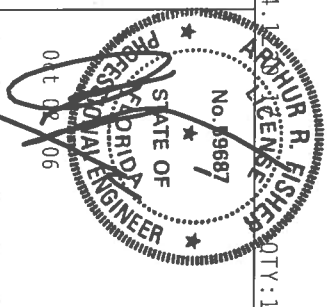
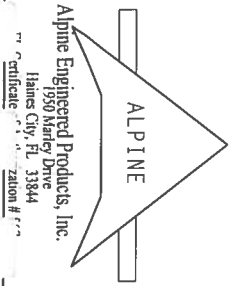
NOTY:1 FL/-/4/-/R/-

Scale = .1875"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES. 1.03. (BUILDING COMPONENT SAFETY AND DESIGN) AND RES. 1.04. (TRUSS PLATE INSTITUTE, 563 DUNBAR RD., SUITE 200, MADISON, WI 53718) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 1000 N. KENNESAW AVE., SUITE 100, KENNESAW, GA 30144) 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 1603 (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. APPLY CONNECTOR PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604 Z.

INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13th Edition, 2005. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487	32044
TC DL	10.0 PSF	DATE	10/02/06	
BC DL	10.0 PSF	DRW	HCUR487	06275010
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT. LD.	40.0 PSF	SEGN	16292	
DUR. FAC.	1.25			
SPACING	24.0"			

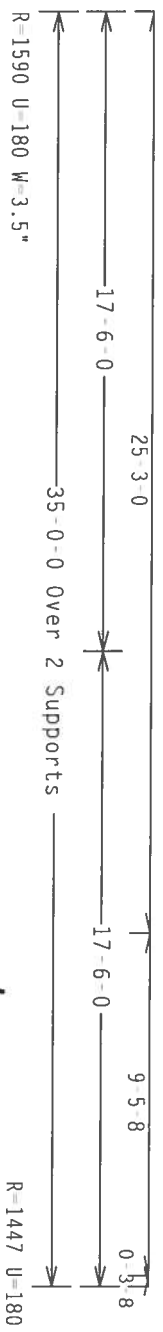
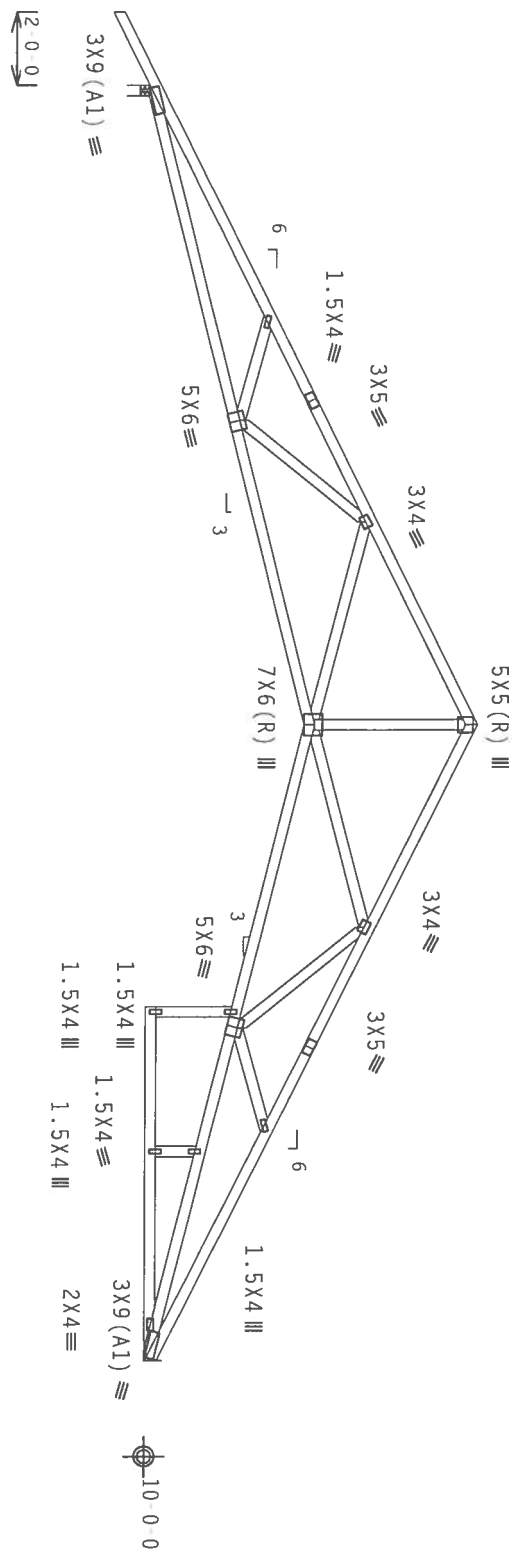
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Filler 2x4 SP #3

Calculated horizontal deflection is 0.31" due to live load and 0.50" due to dead load.

Calculated vertical deflection is 0.44" due to live load and 0.69" due to dead load at X = 17-6-0.

SEE DWGS TC-FILLER1103 AND BC-FILLER1103 FOR FILLER DETAILS.  
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" O.C. INCLUDING A LATERAL BRACE AT CHORD ENDS.

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 MMFRS pressures.  
In lieu of structural panels use purlins to brace TC @ 24" O.C.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

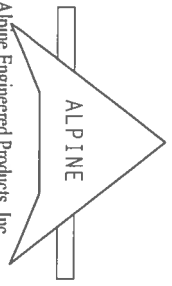


PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.180 HUR R. FISHER QTY:1 FL/-/4/-/R/- Scale = .1875"/ft.

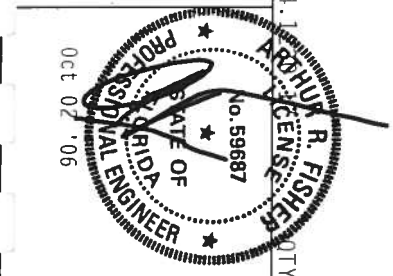
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATING INSTITUTE, 6000 ENTERPRISE DR., SUITE 200, MADISON, WI 53719 AND WEA (WOOD TRUSS COUNCIL OF AMERICA, 6700 ENTERPRISE DR., SUITE 200, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* 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.

DESIGNER'S NOTE: THIS TRUSS IS DESIGNED FOR A LIVE LOAD OF 20/10/100 (L/H/S) ASH 4653 GRADE 40/60 (K/H/S) GALV. STEEL. APPLY THE LIVE LOAD TO THE TOP CHORDS. THE DEAD LOAD IS LOCATED ON THIS DESIGN. POSITION PER DRAWING 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY THE TRUSS DESIGNER SHALL BE THE RESPONSIBILITY OF THE TRUSS DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Tel: 888-222-2222 Fax: 888-222-2222



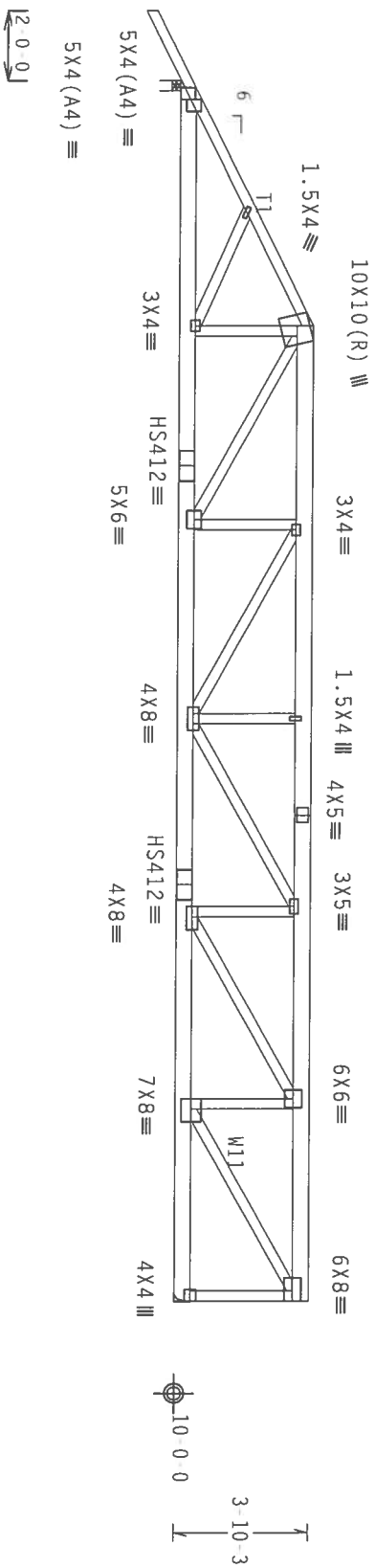
TC LL	20.0 PSF	REF	R487 - - 32045
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCSR487 06275008
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	16319
DUR.FAC.	1.25		
SPACING	24.0"	JBFF-	1TJ487_201

Top chord 2x6 SP #1 Dense : T1 2x4 SP #2 Dense :  
Bot chord 2x6 SP #1 Dense :  
Webs 2x4 SP #3 : W11 2x4 SP #2 Dense :  
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

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

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.



PLT TYP. 20 Gauge HS.Wave

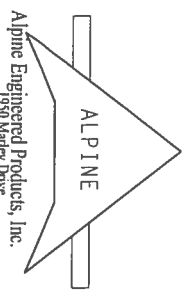
Design Crit: TPI-2002(STD)/FBC

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

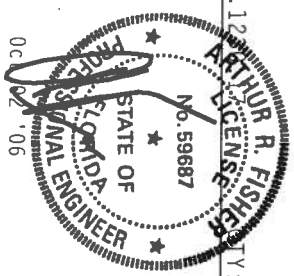
IMPORTANT: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I 1.03 (BUILDING COMPONENT SAFETY INFORMATION), BUILDING AND REPAIR TRUSS COMPANY, 1563 DUNFORD DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COMPANY, 1000 W. 10TH ST., MADISON, WI 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 AIA/P&I AND TPI: ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (4-11/8") ASTM A653 GRADE 40/60 (4, K/H/S) GALV. STEEL. APPLY ANY CONNECTIONS TO TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.

ANY INSPECTION OF TRUSSES SHALL BE PERFORMED AS OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL LIABILITY. THE SEAL OF THE TRUSS COMPANY DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Toll Free 1-800-368-2222  
Fax 888-222-2222



TC LL	20.0 PSF	REF R487-- 32046
TC DL	10.0 PSF	DATE 10/02/06
BC DL	10.0 PSF	DRW HCUSR487 06275047
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 129967
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 11J4AR7 201

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

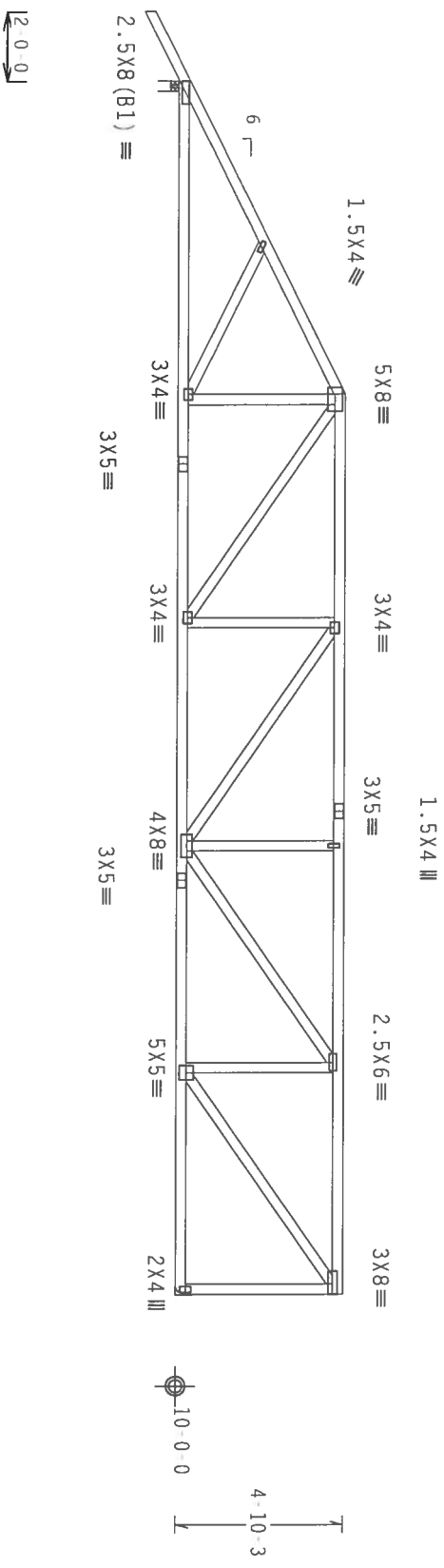
Wind reactions based on MMFRS pressures.

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

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

Right end vertical not exposed to wind pressure.

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



9'-0-0  
26'-0-0  
35'-0-0 Over 2 Supports  
R-1585 U=180 W-3.5"  
R-1431 U=180

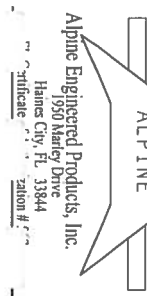
PLT TYP. Wave

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

7.24.12  
ARTHUR R. FISHER  
Professional Engineer  
No. 59687  
STATE OF FLORIDA  
Professional Engineer  
06

Scale = .1875"/ft.

TC LL	20.0 PSF	REF R487--	32047
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW HCUR487	06275003
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT.LD.	40.0 PSF	SEON-	16309
DUR.FAC.	1.25		
SPACING	24.0"	URFF-	1TJ4487_Z01



Alpine Engineered Products, Inc.  
1950 Manley Drive  
Haines City, FL 33844  
Phone # 888-222-2222  
Fax # 888-222-2222

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

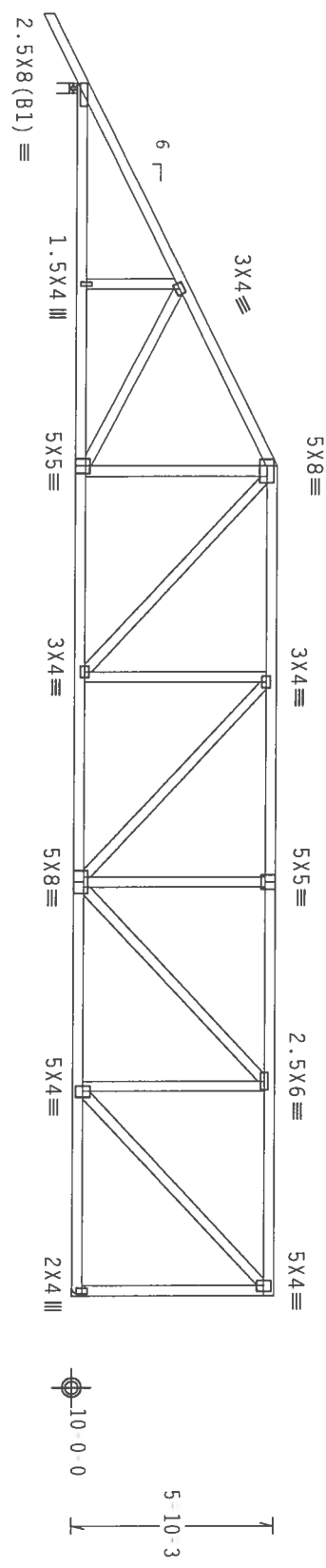
Wind reactions based on MMFRS pressures.

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

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

Right end vertical not exposed to wind pressure.

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



11-0-0  
24-0-0  
35-0-0 Over 2 Supports  
R=1585 U=180 W=3.5"  
R=1431 U=180

PLT TYP. Wave

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

7.24.12

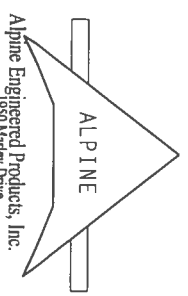
FL/-/4/-/R/-

Scale = .1875"/ft.

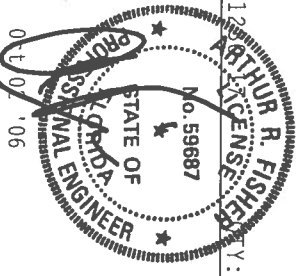
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I 1.03 (BUILDING COMPONENT SAFETY) AND BC&I 1.04 (TRUSS PLATE INSTITUTE, 563 D'ARNO RD., SUITE 200, MADISON, WI 53710) AND WICK (WOOD TRUSS COUNCIL, 1000 W. MADISON, WI 53710) FOR 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 905 (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI.

ALPINE PLATES ON EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. APPLICATION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-16, SECTION 16.2. 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.  
1950 Markey Drive  
James City, FL 33844  
Certificate # 06



TC LL	20.0 PSF	REF	R487 - 32048
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCUR487 06275004
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEGN	16311
DUR. FAC.	1.25		
SPACING	24.0"		

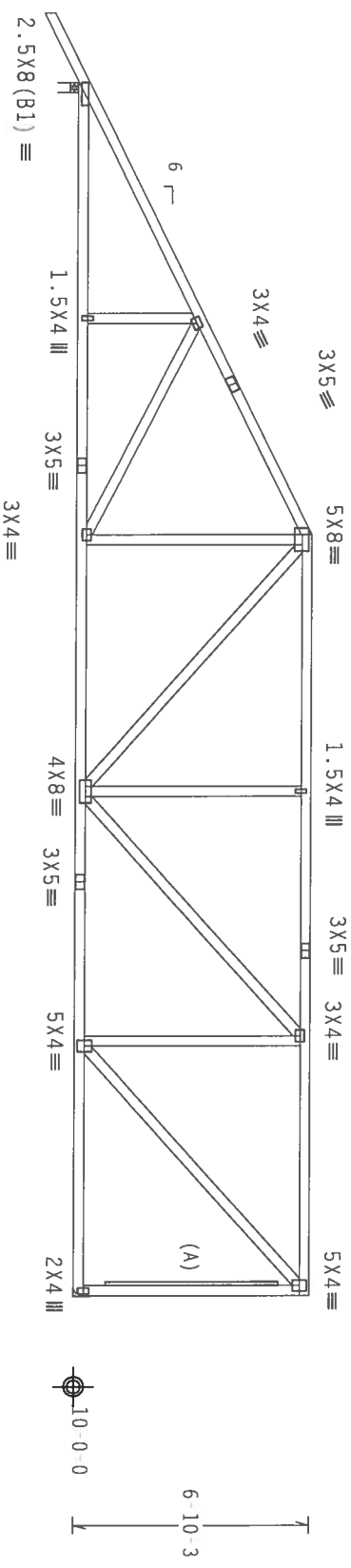
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

(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.

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.  
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)

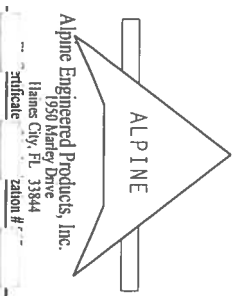
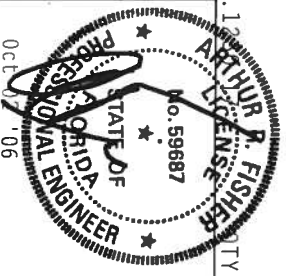
QTY: 1 FL / 4 / - / R / -

Scale = .1875" / Ft.

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

**\*\*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 CORRECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (E/H/S/K) ASH 6053 GRADE 40/60 (K, K/H/S) GALV. STEEL. ALPINE TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF ACCEPTANCE OF PROFESSIONAL ENGINEER OR ARCHITECT SHALL BE PERMANENT AS OF TPI 11-2002 SEC. 3. 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  
Attention #1

TC LL	20.0 PSF	REF R487-- 32049
TC DL	10.0 PSF	DATE 10/02/06
BC DL	10.0 PSF	DRW HCUR487 06275005
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEGN- 16313
DUR. FAC.	1.25	
SPACING	24.0"	UREF- 1TJ4A87_Z01

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

Wind reactions based on MMFRS pressures.

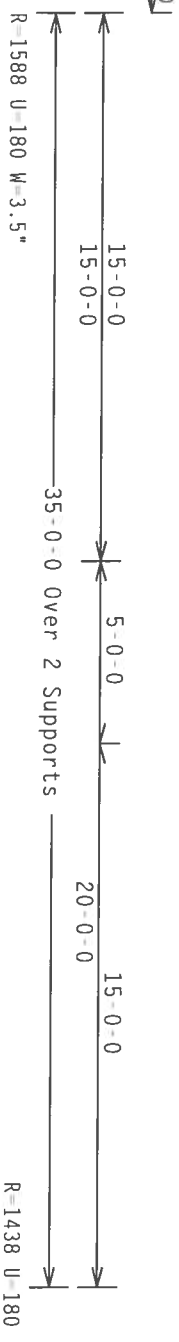
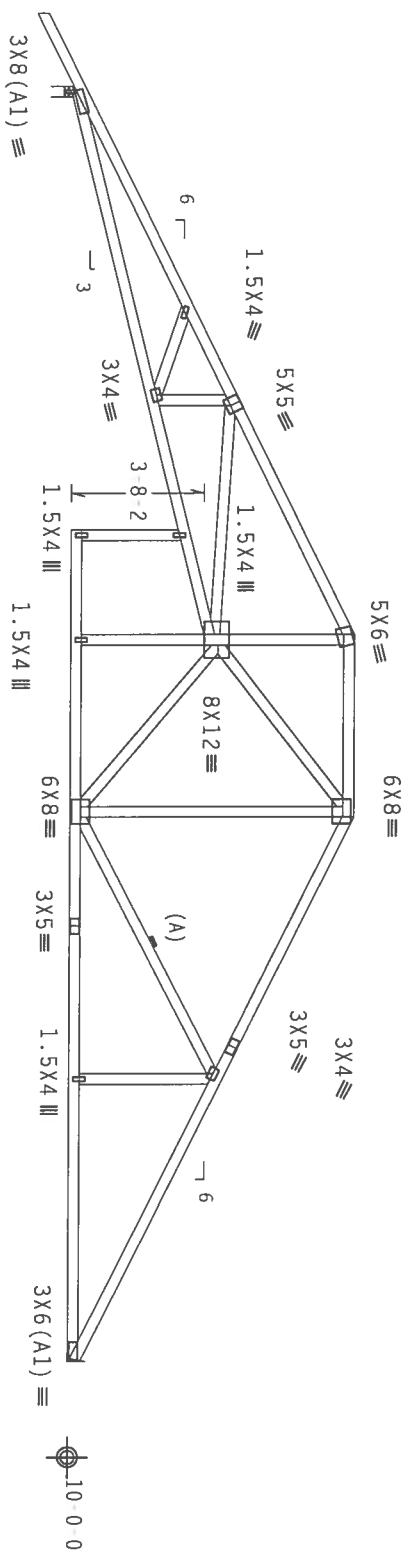
(A) Continuous lateral bracing equally spaced on member.

SEE DWGS TCFILLER103 AND BCFILLER103 FOR FILLER DETAILS.  
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP  
CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT  
CHORD ENDS.

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.

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

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)

7.24.13

FL/-/4/-/R/-

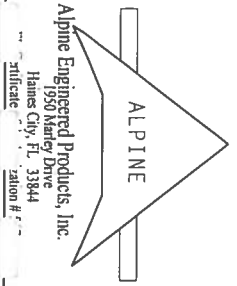
Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES-1.03 (BUILDING COMPONENT SAFETY) AND RES-1.04 (TRUSS PLACING INSTITUTE, 583 D'CONOR RD., SUITE 200, MADISON, WI 53715) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 1000 W. 10TH AVE., SUITE 100, DENVER, CO 80202) 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.

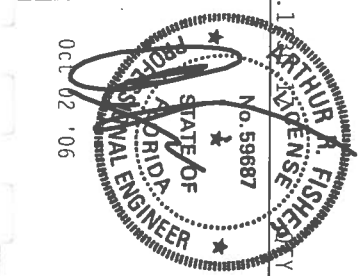
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI- OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.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

CONNECTION PLATES ARE MADE OF 20/18/16GA (W-H/S/K) ASTM A563 GRADE 40/60 (K, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.

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



Alpine Engineered Products, Inc.  
1950 Marney Drive  
Haines City, FL 33844  
Telephone: 888-222-2222



TC LL	20.0 PSF	REF	R487- 32050
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCSR487 06275006
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SECN-	16315
DUR.FAC.	1.25		
SPACING	24.0"	JRFF- 1TJ4487_201	



FL/-4/-/R-		Scale = .1875"/ft.	
TC LL	20.0 PSF	REF	R487 - 32051
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCUSR487 06275045
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	129987
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1TJ4487_201

התאחדות המורים, שיתוף פעולה עם המערכת, וזו תהיה תוצאה של

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.



Scale = .25" / Ft.

WOLFFING UNIVERSITÄT MÜNCHEN/1991 1. SEM. 2.

TC LL	20.0 PSF	REF	R487 - 32052
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCUSR487 06275050
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	129971
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T14487 Z01

Justification

C2 )

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 D1=5.0 psf, wind BC D1=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.



Scale = .25" / Ft.

No. 54687

ALPINE ENGINEERED

ORIGINAL ENCL

Oct 7, 06

1  
1  
1

111

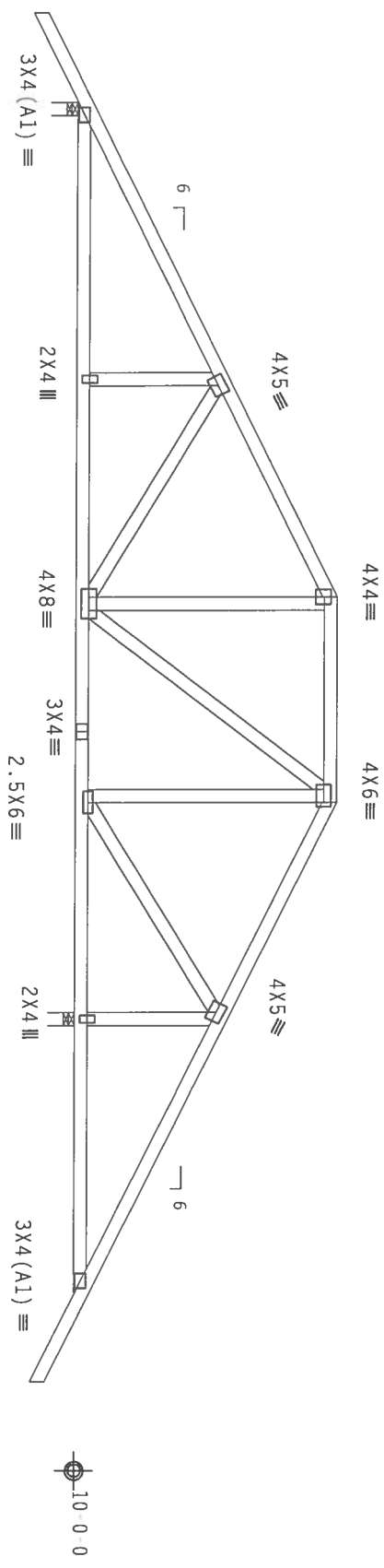
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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.

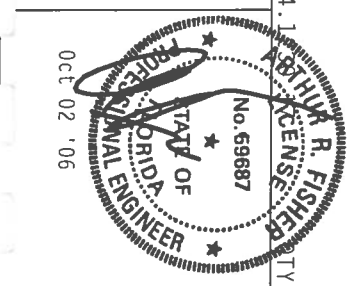
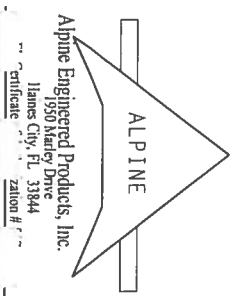


2'-0-0"  
11-0-0  
4-7-0  
26-7-0 Over 2 Supports  
11-0-0  
6-0-0  
2'-0-0"  
R=865 U=180 W=3.5"  
R=1592 U=180 W=3.5"

PLT TYP. Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.18  
Scale = .25"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BC&I 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUREAU OF STANDARDS, 365  
D'ORFORD DR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS CONFLICTS OF AMERICA 6300 EASTERN BLVD.,  
MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PAI AND TPI. ALPINE  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASH 4653 GRADE 40/60 (K, K/H/S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.  
KNUSS ENGINEERING SHALL BE FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI 2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 32054
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCSR487 06275015
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN	16327
DUR. FAC.	1.25		
SPACING	24.0"		

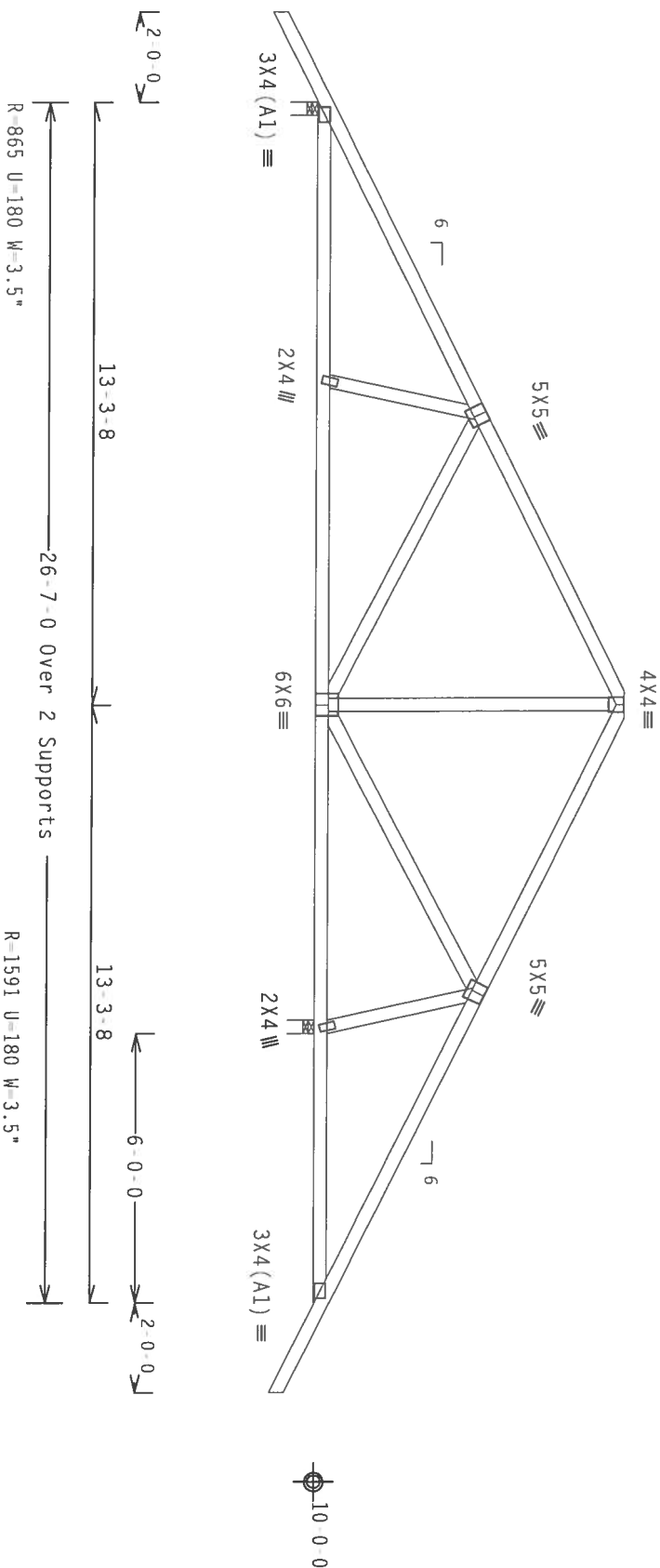
Scale = .25"/ft.  
JREF- 1T14487\_201

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

Wind reactions based on MWFS pressures.

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

PLT TYP. Wave

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

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

Scale = .25" / ft.

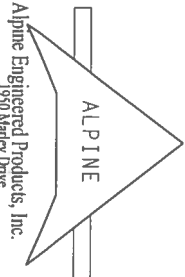
\*"WARNING" STAPLES REQUIRE CARE IN INFORMATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO SPEC 1.03 TO BUILDING EXPERTISE SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS-PLATE INSTITUTE, 503 O'ROURO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD PRES. COUNCIL OF AMERICA, 6200 ENTERPRISE IN MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CEILING.

**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY NEGLIGENCE FROM THIS DESIGN.**

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. APPLIC

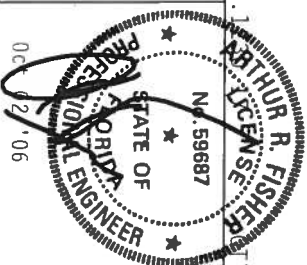
CONCRETE PLATES MADE OF 20/18/1664 (M.J./S/K) ASTM A653 GRADE 40/60 (M. K./H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC.3. A SEAL ON THIS

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/SP 1 SEC. 2.

[illegible]

Alpine Engineered Products, Inc.  
1950 Marley Drive

Haines City, FL 33844  
ertificate      zation #

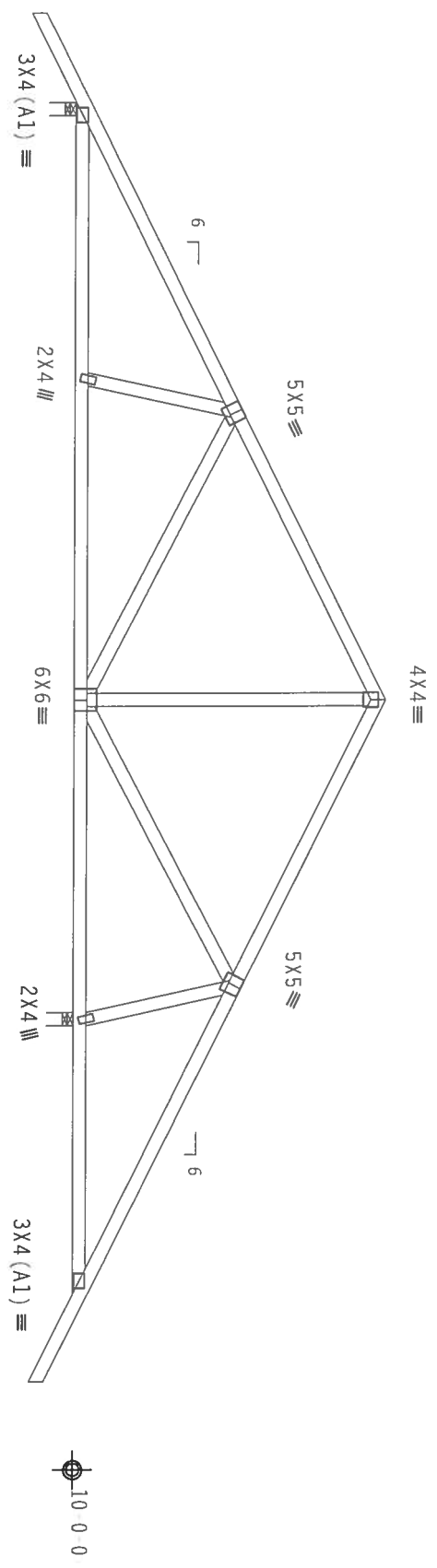


FL/-4/-/R-		Scale=.25"/ft.	
TC LL	20.0 PSF	REF	R487-- 32055
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCUSR487 06275016
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	16329
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T14A87_Z01

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

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.



2-0-0  
13-3-8  
26-7-0 Over 2 Supports  
13-3-8  
6-0-0  
2-0-0  
R-865 U=180 W=3.5"  
R-1591 U=180 W=3.5"

PLT TYP. Wave

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

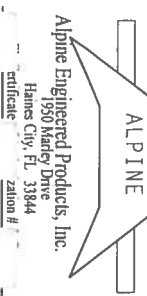
7.24.12

FL/-4/-/-R/-

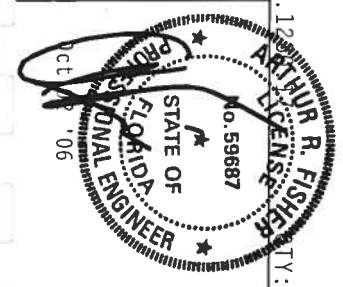
Scale = .25"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RIGID CEILING. THE TRUSS SHALL BE FABRICATED IN ACCORDANCE WITH THE INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 DUNBROOK DR, SUITE 200, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (K/H/S/K) ASTM A653 GRADE 40/60 (K, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN 33 OF TPI 2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone # 888-233-2333  
Fax # 888-233-2333  
E-mail # info@alpineeng.com



TC LL	20.0 PSF	REF	R487 - 32056
TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCSR487 06275017
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN	16331
DUR. FAC.	1.25		
SPACING	24.0"		

JPRFF 1T1AAR7\_201

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

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC From 62 PLF at -2.00 to 62 PLF at 20.58  
BC From 4 PLF at -2.00 to 4 PLF at 0.00  
BC From 20 PLF at 0.00 to 20 PLF at 8.58  
BC From 20 PLF at 8.58 to 20 PLF at 20.58  
BC 2994 LB Conc. Load at 7.06  
BC 1431 LB Conc. Load at 9.06, 11.06, 13.06  
BC 1438 LB Conc. Load at 15.06  
BC 1447 LB Conc. Load at 17.06, 19.06

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

(A) 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.

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

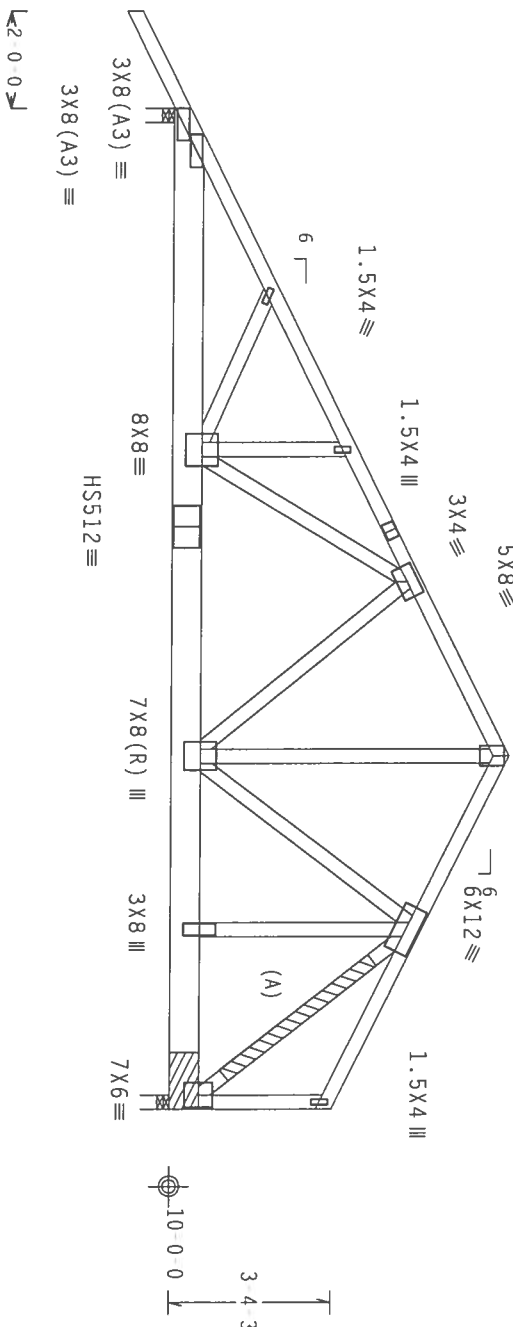
Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails  
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
2 20.292' 1 14" Match Truss  
Bearing block to be same size and species as bottom chord.  
Refer to drawing CNBRGK1103 for additional information.

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.

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



R 5720 U=612 W=3.5"

PLT TYP. 20 Gauge HS, Wave

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

7.24.12

R 7200 U=612 W=3.5"

FL/-4/-/R/-

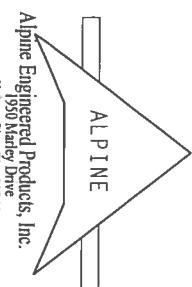
Scale = .25"/ft.

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

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

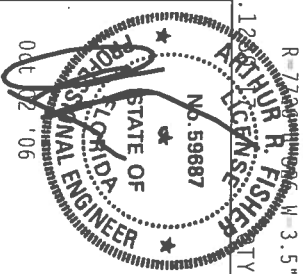
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CORRECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI-2002(STD)/FBC. CONECTOR PLATES ARE MADE OF 2018/16GA (W-11/5X) ASTM A653 GRADE 40/60 (K, K/H/S) GALV. STEEL. APPLY ANY FABRICATION OF TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A Z.

ANY INSPECTION OF TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A Z. DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL DESIGNER'S RESPONSIBILITY. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL DESIGNER'S RESPONSIBILITY. A SEAL ON THIS BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1930 Mandy Drive  
Haines City, FL 33844

ation #

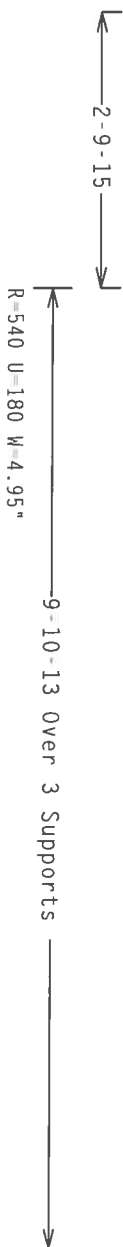


TC LL	20.0 PSF	REF R487-- 32057
TC DL	10.0 PSF	DATE 10/02/06
BC DL	10.0 PSF	DRW HCUR487 06275048
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 129981
DUR.FAC.	1.25	
SPACING	24.0"	JBFF- 1T14A87_201

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.

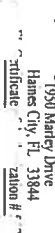
In lieu of structural panels or rigid ceiling use purfins to brace TC @ 24" OC, BC @ 24" OC.

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



Scale = .5"/Ft.

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



**\*IMPORTANT\*** JANISAR A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APPLICABLE ENGINEERING PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN IN CONFORMANCE WITH THE: ON FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING OF TRUSSES.

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF MOD. NATIONAL DESIGN SPEC. BY AREA AND T-1. APPLIED

PLATES TO EACH FACE OF TRUSS AND WELDED TO EACH END OF TRUSS. STAINLESS STEEL GRADE 304L OR 6068 OR 9/16" S15 GALV. STEEL. APPLY

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA AS OF TOP 2002 SEC. 2. STEEL

DRAWING INDICATES ACCEPTANCE OF 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.





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

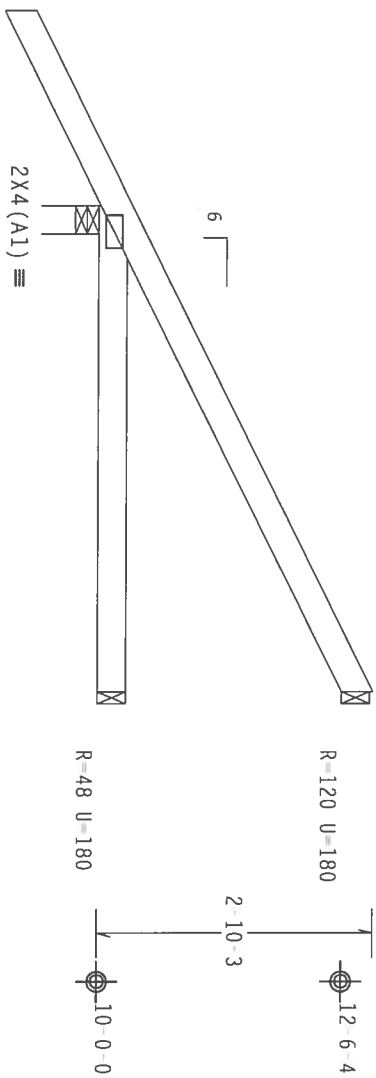
Wind reactions based on MMFRS pressures.

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.



2'-0'-0"

5'-0'-0" Over 3 Supports  
R=377 U=180 W=3.5"

PLT TYP. Wave

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

7.24.12

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

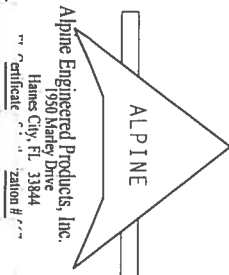
Scale = .5"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PANELS INTERNATIONAL), 6000 ENTERPRISE LN, MADISON, WI 53719, AND WICK (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

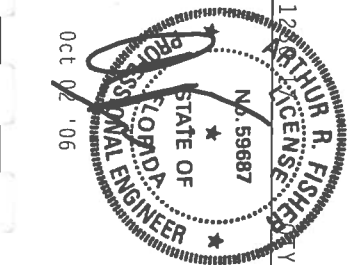
\*\*\*IMPORTANT\*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

CONNECTION PLATES ARE MADE OF 2018/1604 (A1913) ASH 4650 GRADE (40/60 (K/41.5) GALT, STEEL. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN, POSITION PER DRAWINGS 1604 Z.

ANY INSPECTION OF THE TRUSS SHALL BE CONDUCTED BY A PROFESSIONAL ENGINEER. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S 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  
Certificate # 24000



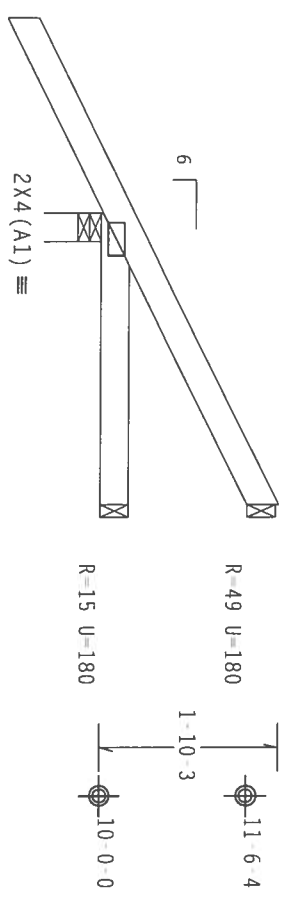
TC LL	20.0 PSF	REF R487- 32060
TC DL	10.0 PSF	DATE 10/02/06
BC DL	10.0 PSF	DRW HCUR487 06275019
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT. LD.	40.0 PSF	SEQN- 16282
DUR. FAC.	1.25	
SPACING	24.0"	JRFF- 1T14487_201

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.



2-0-0  
3 0 0 Over 3 Supports  
R=317 U=180 W=3.5"

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

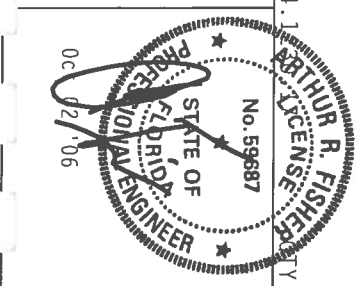
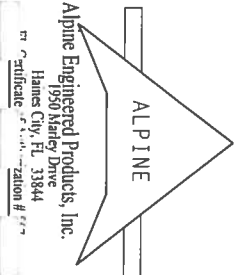
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 500 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. CONNECTOR PLATES AND ANCHOR BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TPI (TRUSS PLATE INSTITUTE, 500 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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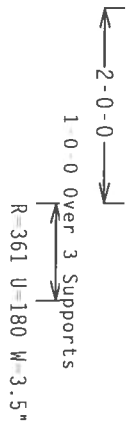
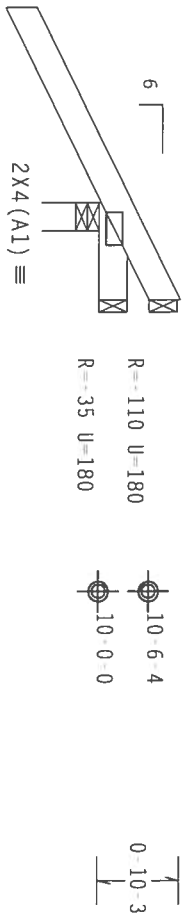
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FL	/4	/1	/R	Scale = .5"/ft.
TC LL	20.0	PSF	REF R487--	32061
TC DL	10.0	PSF	DATE	10/02/06
BC DL	10.0	PSF	DRW HCUR487	06275020
BC LL	0.0	PSF	HC-ENG JB/AF	*
TOT.LD.	40.0	PSF	SEON-	16283
DUR.FAC.	1.25			
SPACING	24.0"		JREF- 1TJ4487	201

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.



PLT TYP. Wave

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

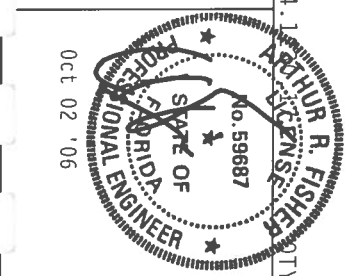
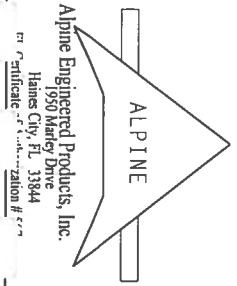
\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 MADISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE 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 CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (E/A/S/K) ASH OR 503 GRADE 40/60 (E/A/S) GALV. STEEL. APPLY

DESIGN OF TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES AND TRUSSES SHALL BE IN ACCORDANCE WITH TPI-2002, SEC. 3.7 FOR THE TRUSS COMPONENT

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

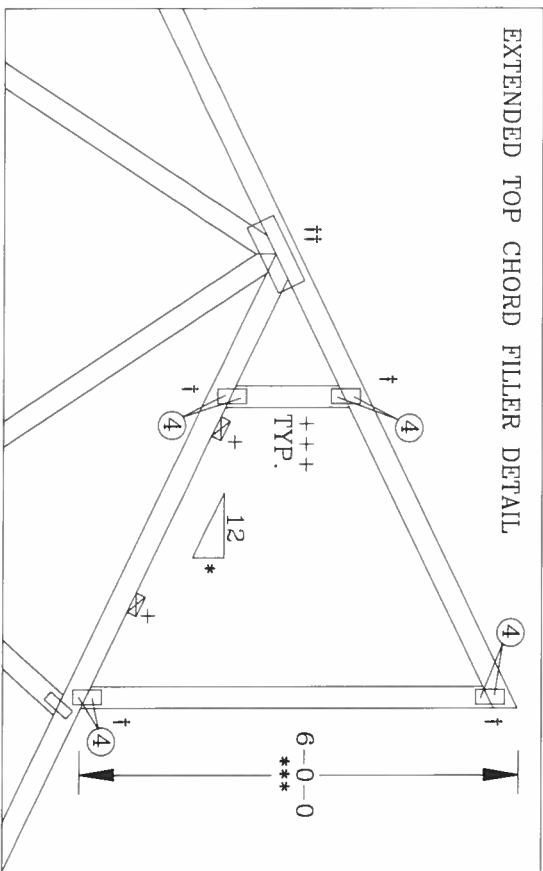


FL / - / 4 / - / - / R / -		Scale = .5" / Ft.	
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TC DL	10.0 PSF	DATE	10/02/06
BC DL	10.0 PSF	DRW	HCUSR487 06275001
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN	16284
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1TJ4487_201

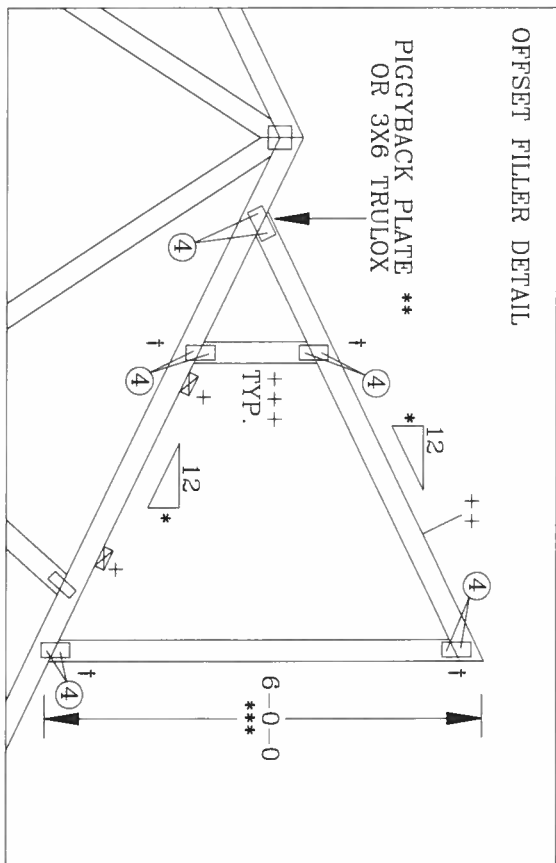
# TOP CHORD FILLER DETAIL

- + 2X4 CONTINUOUS LATERAL BRACING AT 24" OC MAXIMUM SPACING. ATTACH TO EACH TOP CHORD WITH (2) 16d NAILS. BRACING MATERIAL TO BE SUPPLIED AND ATTACHED AT BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.
- ++ 2X4 SO. PINE #2 N OR SPF #1/#2 FILLER TOP CHORD.
- +++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED 48" OC MAXIMUM.
- \* 8/12 MAXIMUM PITCH.
- \*\* 2X8.25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699 FOR PIGGYBACK SPECIAL PLATE INFORMATION.
- \*\*\* 6'0" MAXIMUM HEIGHT.
- † W2X4 OR 3X6 TRUOX.
- †† REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.
- 11 GAUGE (0.120")X1.375" NAILS REQUIRED FOR TRUOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF EACH TRUSS PLY. SEE DWG 160TL FOR NAILING AND TRUOX PLATE REQUIREMENTS.

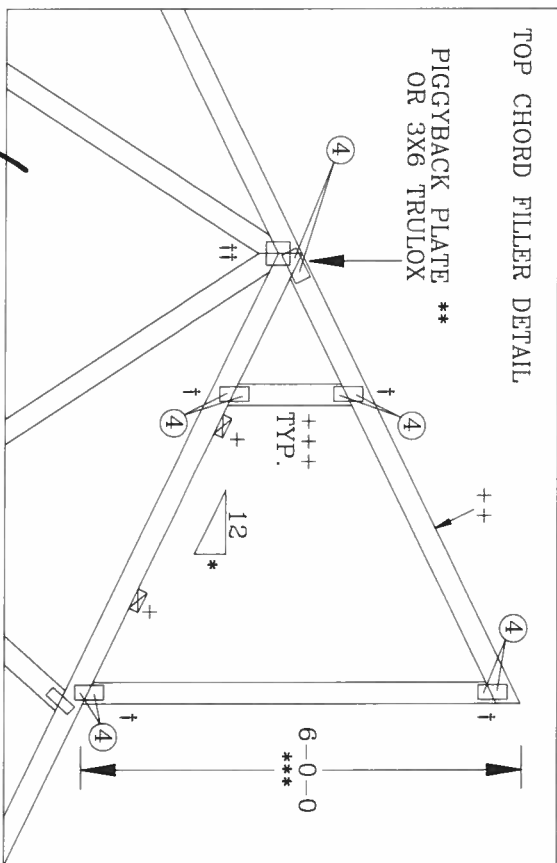
## EXTENDED TOP CHORD FILLER DETAIL



## OFFSET FILLER DETAIL



## TOP CHORD FILLER DETAIL



ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS ASSOCIATION, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021, 2023, 2025, 2027, 2029, 2031, 2033, 2035, 2037, 2039, 2041, 2043, 2045, 2047, 2049, 2051, 2053, 2055, 2057, 2059, 2061, 2063, 2065, 2067, 2069, 2071, 2073, 2075, 2077, 2079, 2081, 2083, 2085, 2087, 2089, 2091, 2093, 2095, 2097, 2099, 2101, 2103, 2105, 2107, 2109, 2111, 2113, 2115, 2117, 2119, 2121, 2123, 2125, 2127, 2129, 2131, 2133, 2135, 2137, 2139, 2141, 2143, 2145, 2147, 2149, 2151, 2153, 2155, 2157, 2159, 2161, 2163, 2165, 2167, 2169, 2171, 2173, 2175, 2177, 2179, 2181, 2183, 2185, 2187, 2189, 2191, 2193, 2195, 2197, 2199, 2201, 2203, 2205, 2207, 2209, 2211, 2213, 2215, 2217, 2219, 2221, 2223, 2225, 2227, 2229, 2231, 2233, 2235, 2237, 2239, 2241, 2243, 2245, 2247, 2249, 2251, 2253, 2255, 2257, 2259, 2261, 2263, 2265, 2267, 2269, 2271, 2273, 2275, 2277, 2279, 2281, 2283, 2285, 2287, 2289, 2291, 2293, 2295, 2297, 2299, 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5621, 5623, 5625, 5627, 5629, 5631, 5633, 5635, 5637, 5639, 5641, 5643, 5645, 5647, 5649, 5651, 5653, 5655, 5657, 5659, 5661, 5663, 5665, 5667, 5669, 5671, 5673, 5675, 5677, 5679, 5681, 5683, 5685, 5687, 5689, 5691, 5693, 5695, 5697, 5699, 5701, 5703, 5705, 5707, 5709, 5711, 5713, 5715, 5717, 5719, 5721, 5723, 5725, 5727, 5729, 5731, 5733, 5735, 5737, 5739, 5741, 5743, 5745, 5747, 5749, 5751, 5753, 5755, 5757, 5759,

# BOTTOM CHORD FILLER DETAIL

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

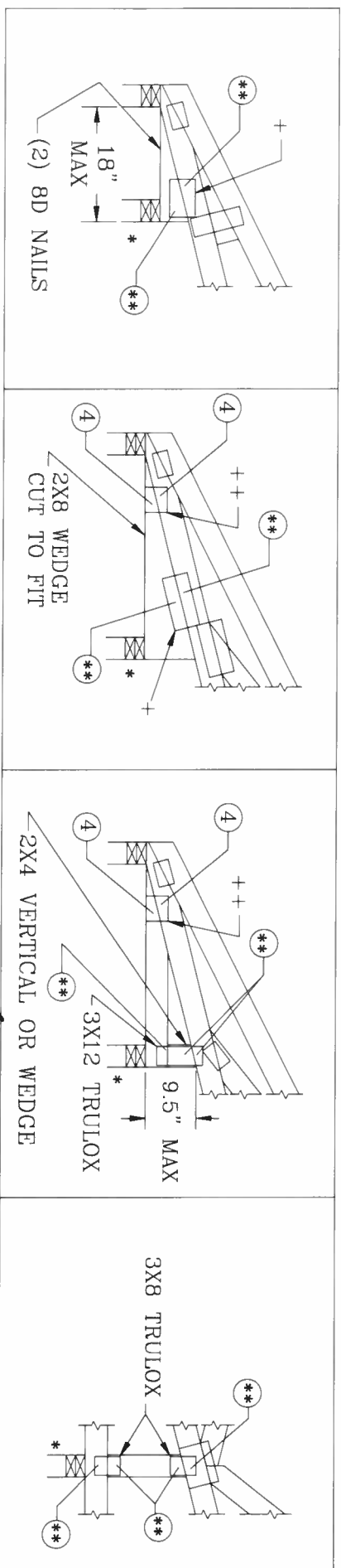
+ 3X4 WAVE OR 4X8 TRULOX  
++ 2X4 WAVE OR 3X6 TRULOX

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

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

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

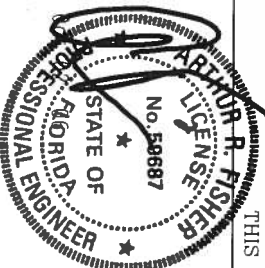
FILLER BOTTOM CHORD OR WEDGE SPECIES	MAXIMUM REACTION		MINIMUM BEARING AREA	** REQUIRED NAILS PER FACE WITH TRULOX PLATES					
	DOWNWARD	UPLIFT		1.00 D.O.L.	1.15 D.O.L.	1.25 D.O.L.	1.33 D.O.L.	1.60 D.O.L.	
DOUGLAS FIR-LARCH	3281#	1656#	1.5" X 3.5"	12	11	10	9	8	
HEM-FIR	2126#	1095#	1.5" X 3.5"	9	8	7	7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



THIS DRAWING REPLACES DRAWINGS A115 A115/R & 884.132

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-103 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS OF AMERICA) FOR THE LATEST EDITIONS OF THE 2003 EDITION, V1.53719) AND V1.53719) AND V1.53719) TRUSS CONSTRUCTION. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP 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. FOR WOOD CONSTRUCTION) AND THE CONDUCTOR PLATES ARE MADE OF 20/18/16GA C/H/S/KS ASTM A653 GRADE 40/60 (V/K/H/S) GALV. STEEL. PER TPI 1-2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THIS DESIGN. POSITION PER DRAWING 160A-2. ANY INSPECTION AND/OR TESTING SHALL BE IN ACCORDANCE WITH THE DESIGN. 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	—	PSF	REF	BC FILLER
TC DL	—	PSF	DATE	11/26/03
BC DL	10.0	PSF	DRWG	BCFILLER1103
BC LL	—	PSF	—	—
TOT. LD.	—	PSF	—	—
DUR. FAC.	1.0/1.15/1.25/1.33			
SPACING	24.0"			

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA



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.

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

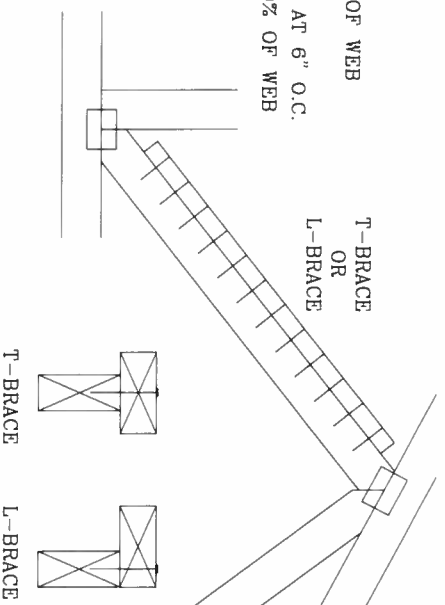
ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE.  
FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE  
BRACING.

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

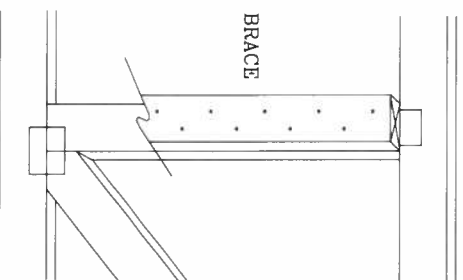
T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

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

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



APPLY SCAB(S) TO WIDE FACE OF WEB.  
NO MORE THAN (1) SCAB PER FACE.  
ATTACH WITH 10d OR .125"x3" GUN  
NAILS AT 6" O.C. BRACE IS A MINIMUM  
80% OF WEB MEMBER LENGTH

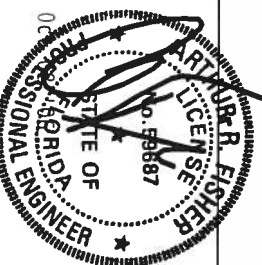


ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* REFER TO RESISTER EXTREME CARE IN FACTICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS BEING A 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 DONOFRED DR., SUITE 200 MADISON, WI 53719 AND VITA C/O/D D TRUSS CONSULT OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A CORRECTLY 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 TRUSSES IN CONFORMANCE WITH TPI DR FACTICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY A762A AND TPI ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA CMH/S/AS 4633 GRADE 40/60 CV/A7633 GALV STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LATEREATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE IN ACCORDANCE WITH TPI DR FACTICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. PROFESSIONAL ENGINEERING RESPONSIBILITY SHALL BE SHOWN BY THE DESIGNER. THE SUBMITTAL OF THIS DESIGN FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ASCE/PEP SEC. 2.



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

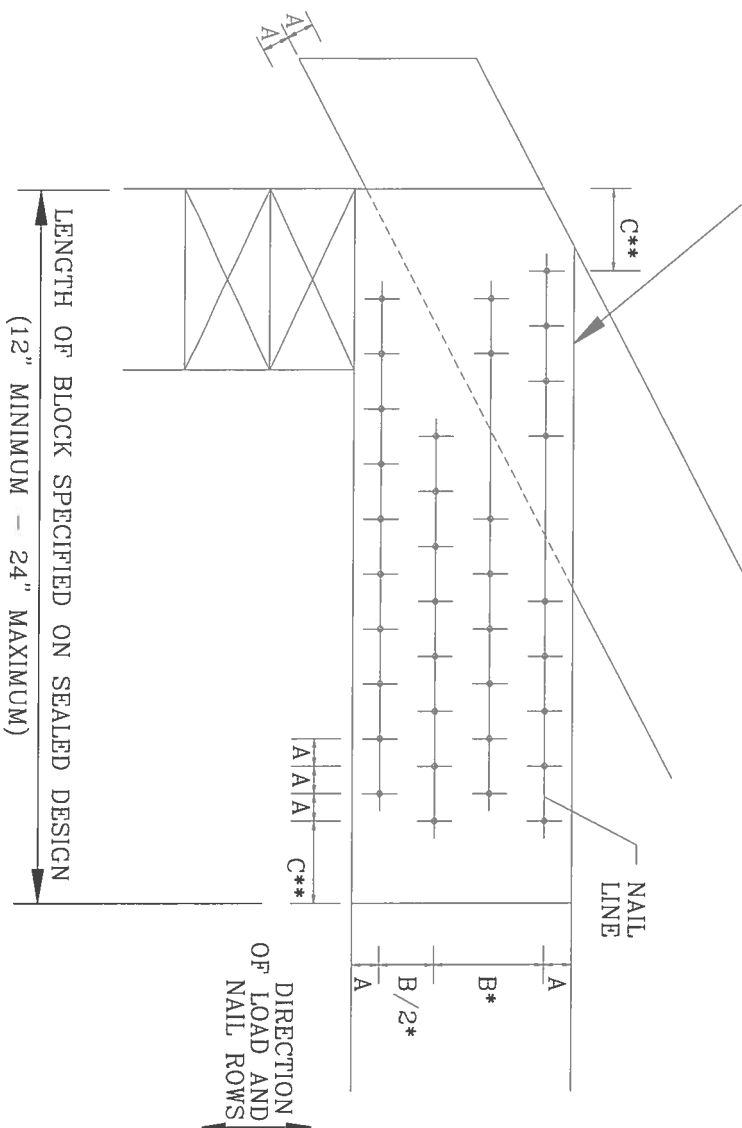
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

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

- \* SPACING MAY BE REDUCED BY 50%  
\*\* SPACING MAY BE REDUCED BY 33%

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



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

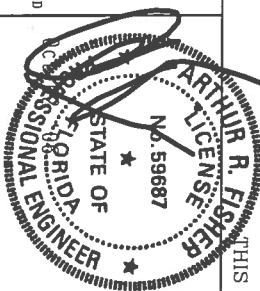
### MINIMUM NAIL SPACING DISTANCES

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

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699



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

[illegible]

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