

# 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: ISXW487-Z0908155758

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-229--Mike Todd Construction Zebra 2 -- , \*\*  
Truss Count: 25  
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: -



Seal Date: 06/08/2006

-Truss Design Engineer-  
Arthur R. Fisher

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

#	Ref	Description	Drawing#	Date
1	88189--AA1		06159127	06/08/06
2	88190--A1		06159023	06/08/06
3	88192--A3		06159119	06/08/06
4	88193--A4		06159120	06/08/06
5	88194--A5		06159121	06/08/06
6	88195--A6		06159122	06/08/06
7	88196--A7		06159123	06/08/06
8	88197--B1		06159128	06/08/06
9	88198--B2		06159124	06/08/06
10	88199--B3		06159125	06/08/06
11	88200--B4		06159129	06/08/06
12	88201--C1		06159022	06/08/06
13	88202--C2		06159025	06/08/06
14	88203--D1		06159130	06/08/06
15	88204--HJ7		06159011	06/08/06
16	88205--EJ7		06159027	06/08/06
17	88206--J5		06159026	06/08/06
18	88207--J3		06159013	06/08/06
19	88208--J1		06159014	06/08/06
20	88209--HJ5		06159012	06/08/06
21	88210--EJ5		06159015	06/08/06
22	88211--HJD		06159131	06/08/06
23	88212--EJD		06159126	06/08/06
24	88213--K1		06159132	06/08/06
25	88214--K2G		06159133	06/08/06





754-4387  
867-0477 cell

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



Scale = 25"/Ft.

PINE ENGINEERING

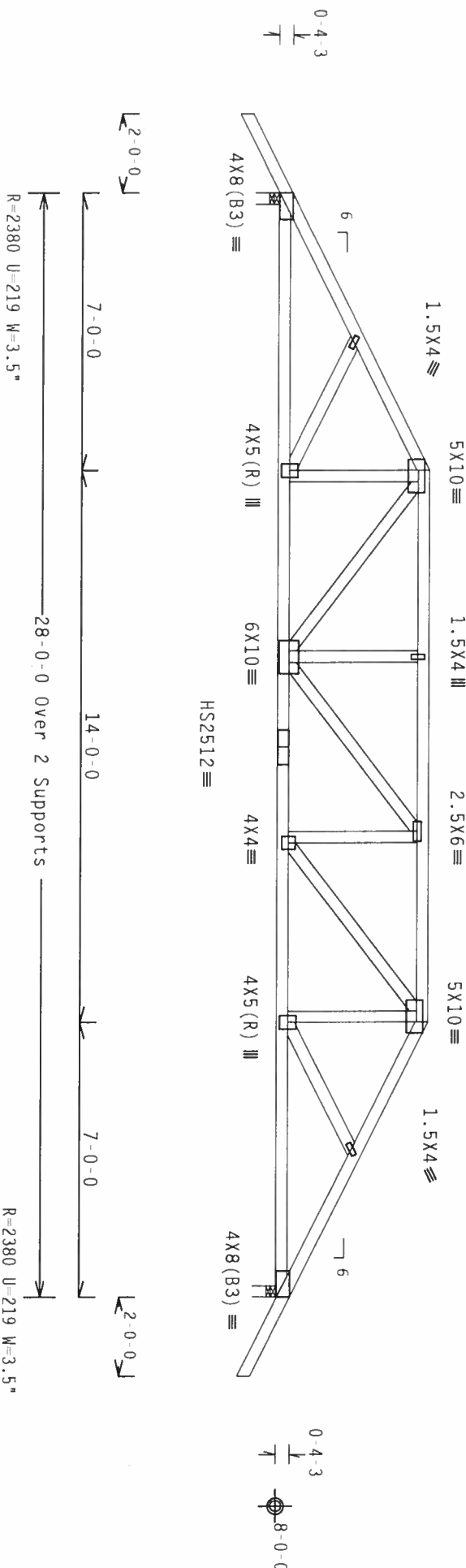
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1SXW487 709

Scale of  $\rho_{11}$  in #567

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

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

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



PLT TYP. 20 Gauge HS, Wave

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

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

Scale = .25"/Ft.

**\*WARNING\*** \*FIRMS REQUIRE EXPERT CARE IN FABRICATING, INSTALLING, SHIPPING, HANDLING, STORING, AND BRACING REFER TO BC51 1.0 (BUILDING COMPONENT SAFETY INFORMATION), DEVELOPED BY TPI (TROSS TRAIL INSTITUTE, 363 D'ORNBURG RD., SUITE 200, MADISON, WI 53719) AND WCA (WOOD RINGS CONSULTING OF AMERICA, 6300 ENTERPRISE IN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. DAMAGES OBSERVED INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

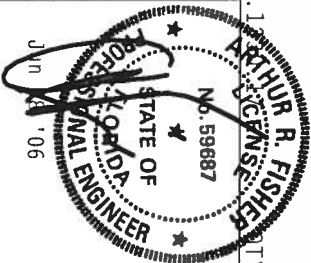
**\*\* IMPORTANT \*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

ALPINE

Alpine Engineered Products, Inc.

1930 Marley Drive  
Haines City, FL 33844

Scale of in # 567



TC LL	20.0 PSF	REF	R487 - - 88190
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	H05R487 06159023
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	8125
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	15XW487 209

JRFF- 1SXW487 Z09

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

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

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

7.24.1

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

Scale = .25"/Ft.

1  
ARTHUR R. FISHER  
LICENSE  
No. 59687  
OT

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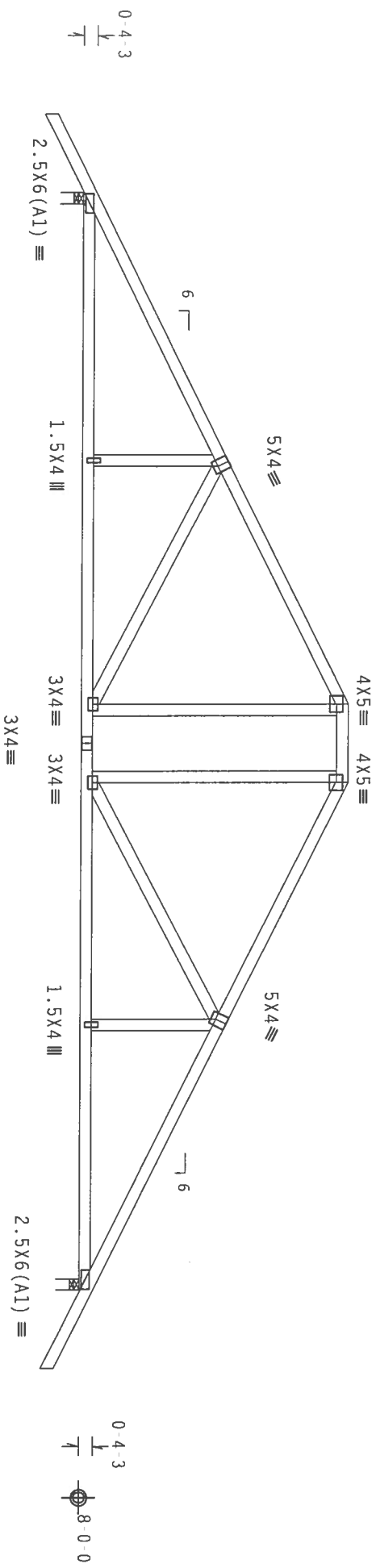
90.80 unq

DUR.FAC.	1.25	
SPACING	24.0"	JRFF-1SXW4R7 Z09

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

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



28'-0" Over 2 Supports  
R=1287 U=180 W=3.5"  
R=1277 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

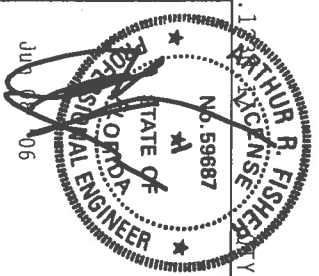
FL/-/4/-/R/-

Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100 SOUTH ZEEB RD., SUITE 200, HANSON, MI 48030, AND AISC 360-10 TRUSS DESIGN GUIDE, PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100 SOUTH ZEEB RD., SUITE 200, HANSON, MI 48030, 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 AND BRACING OF TRUSSES, CONNECTOR PLATES ARE MADE OF 2018/16GA (4.4/5/5) ASTM A653 GRADE 40/60 (4.4/5/5) GALV. STEEL. APPLY ALPINE CONNECTOR PLATES TO ALL TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

ALPINE ENGINEERED PRODUCTS, INC.  
1950 Nalley Drive  
Haines City, FL 33844  
Phone: 888.567.5677  
Fax: 888.567.5677



TC LL	20.0 PSF	REF	R487-88193
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCSR487 06159120
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SECON	108062
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-15XW4R7	Z09

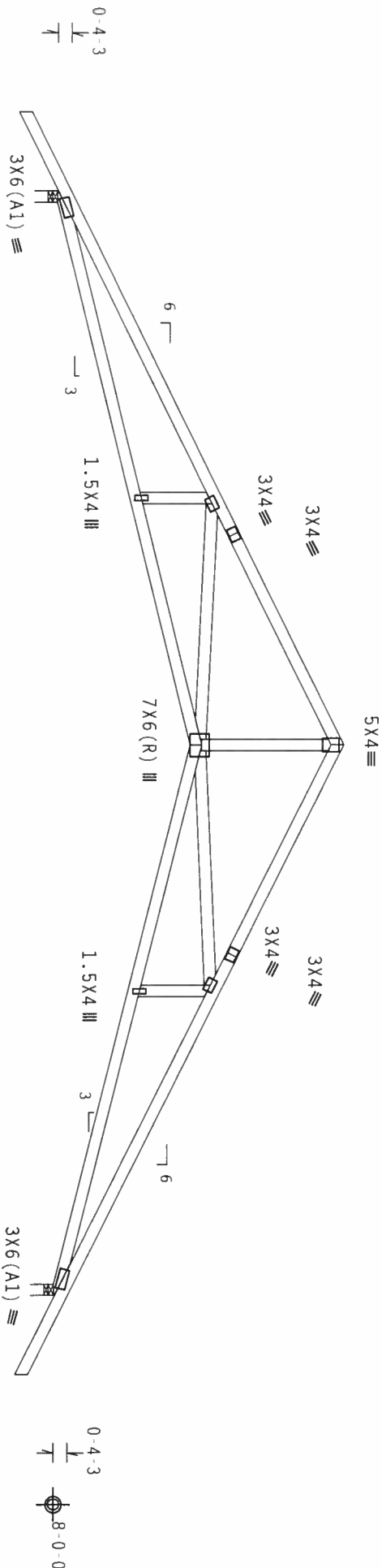
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Calculated horizontal deflection is 0.19" due to live load and 0.29" due to dead load.

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

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

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



14'-0-0 28'-0-0 Over 2 Supports 14'-0-0  
R=1286 U=180 W=3.5"  
R=1296 U=180 W=3.5"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCES 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL CENTER FOR CONSTRUCTION EDUCATION, 1000 N. 10TH ST., SUITE 200, MILWAUKEE, WI 53219, AND WCA (WOOD TRUSS COUNCIL OF AMERICA) 600 PETERSON BLVD., MILWAUKEE, WI 53219, 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.

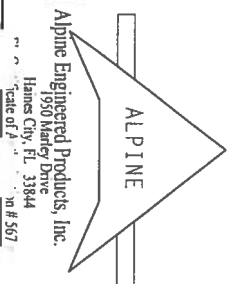
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI- OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI-1. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A Z.

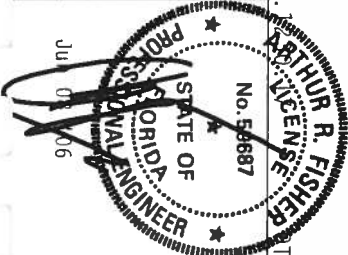
ALL TRUSS CONNECTIONS SHALL BE MADE OF 20/18/16GA (W/4/5/5) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY

ALL TRUSS CONNECTIONS SHALL BE MADE OF 20/18/16GA (W/4/5/5) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY

ALL TRUSS CONNECTIONS SHALL BE MADE OF 20/18/16GA (W/4/5/5) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY



Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Phone # 888-257-5677  
Fax # 888-257-5677



FL - 4 - - / R -		Scale = .25" / Ft.	
TC LL	20.0 PSF	REF	R487 - - 88194
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCUSR487 06159121
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT. LD.	40.0 PSF	SEQN-	108138
DUR. FAC.	1.25		
SPACING	24.0"	URFF -	15XW487 Z09

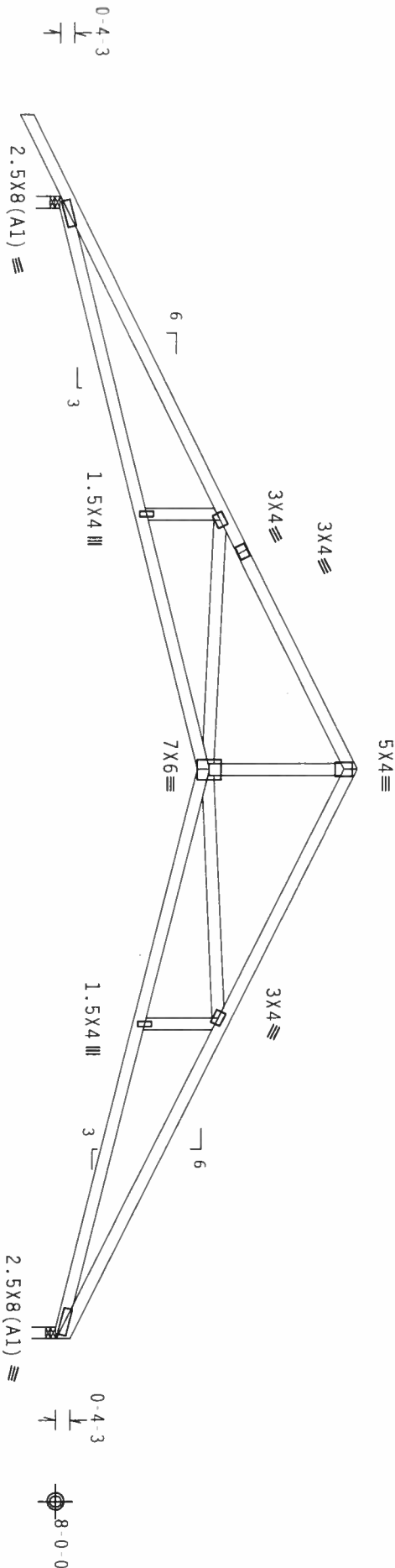
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Calculated horizontal deflection is 0.19" due to live load and 0.30" due to dead load.

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

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

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



14'-0" 14'-0" 28'-0" Over 2 Supports  
R=1292 U=180 W=3.5" R=1157 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 EXTERIOR GALT IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS COMPANY, 1000 ENTERPRISE DR., SUITE 200, HADISON, NJ 07619, AND AISC (4000 TRUSS COMPANY OF AMERICA, 6100 ENTERPRISE DR., HADISON, NJ 07619) 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.

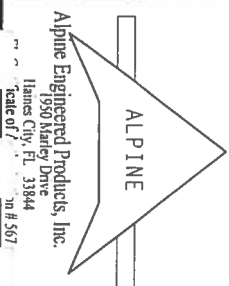
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

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.

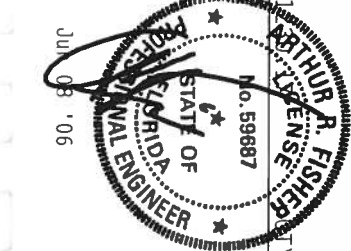
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (4000 TRUSS COMPANY OF AMERICA, 6100 ENTERPRISE DR., HADISON, NJ 07619) AND AISC (4000 TRUSS COMPANY OF AMERICA, 6100 ENTERPRISE DR., HADISON, NJ 07619) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

CONNECTOR PLATES ARE MADE OF 70/30 ZINC ALUMINUM ALLOY (AL-6063) AS PER AISC 4000 (4, 4.1.1.1) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 1604.2.

SEALING OF PLATES FOLLOWED BY (1) SHALL BE PER AISC 4000 (4, 4.1.1.1) GALV. STEEL. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone #567



TC LL	20.0 PSF	REF	R487--	88195
TC DL	10.0 PSF	DATE	06/08/06	
BC DL	10.0 PSF	DRW	HCSR487	06159122
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SECON	108143	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	15XW487	Z09

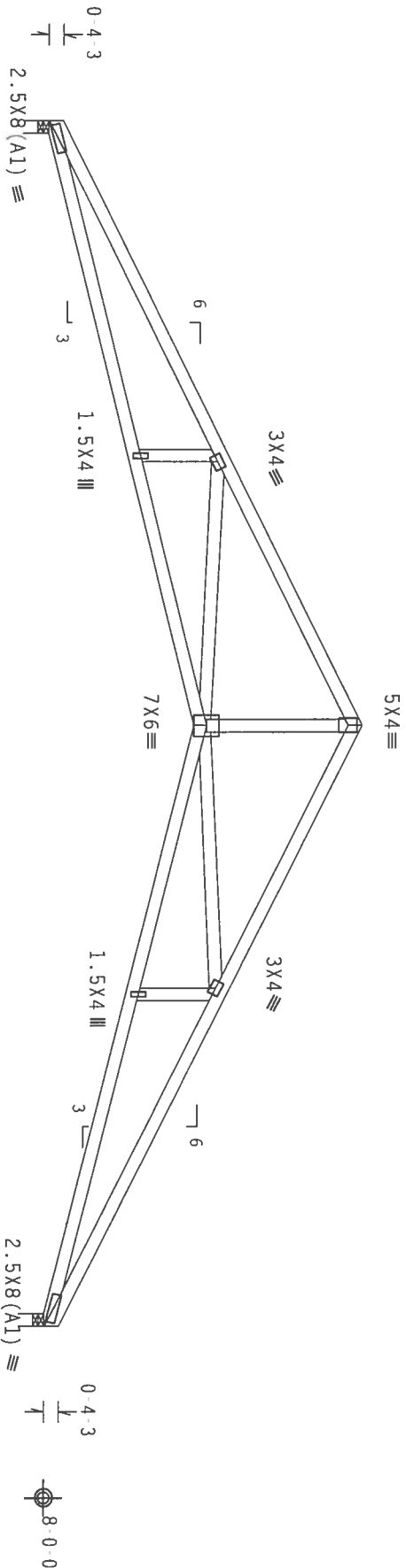
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Calculated horizontal deflection is 0.19" due to live load and 0.30" due to dead load.

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

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

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



14-0-0  
28-0-0 Over 2 Supports  
14-0-0  
R=1162 U=180 W=3.5"

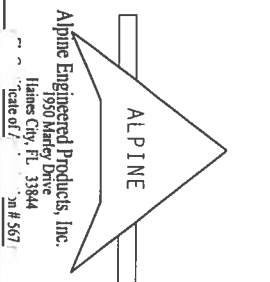
PLT TYP. Wave

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

ARTHUR R. FISHER  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 59687  
JUN 08 '06

FL/-/4/-/R/-

Scale = .25"/ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RETURN TO DESIGNER FOR INSTRUCTIONS. THIS TRUSS IS DESIGNED FOR A LIVE LOAD OF 20 PSF AND A DEAD LOAD OF 10 PSF. THE TRUSS SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN CRITERIA. THE TRUSS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

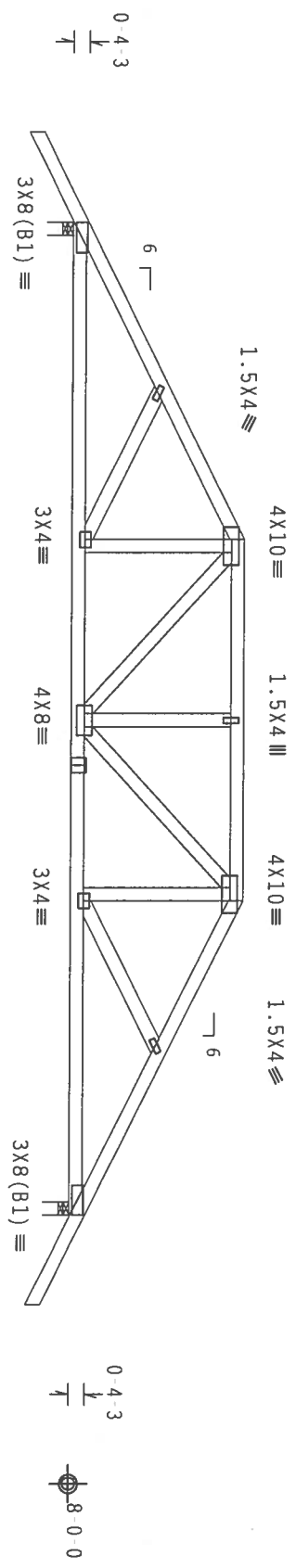
**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD), ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/P) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING SHALL BE AFFIXED TO THE BOTTOM CHORD OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TP1 1 SEC. 2.

TC LL	20.0 PSF	REF R487--	88196
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW HCUSR487	06159123
BC LL	0.0 PSF	HC-ENG JB/AF	*
TOT.LD.	40.0 PSF	SEON-	108148
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-15XM4R7	209

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

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, located anywhere in roof, CAI II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
#1 hip supports 7-0-0 jacks with no webs.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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



Scale = .25"/ft.

ALPINE		ALPINE ENGINEERED PRODUCTS, INC.	
1950 Marley Drive		Haines City, FL 33844	
Tel: 888-567-1111		Fax: 888-567-1111	
Date of: 08/08/06		Job No: 08/06	
TC LL	20.0 PSF	REF	R487 - 88197
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCSR487 06159128
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SECN	108070
DUR. FAC.	1.25		
COATING	24.0"		
		JRF - 15XW/07 209	



110 mph wind, 15.00 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.

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

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

7.24.12361170ENSENCE  
PROPERTY:1

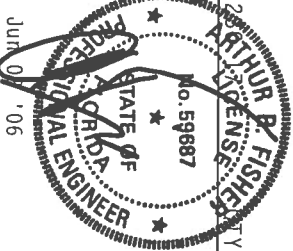
FL/-/4/-/-/R/-

Scale = .25" / Ft.

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

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
Scale of 1" = 300' # 567



TC LL	20.0 PSF	REF	R487 - 88199
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCSR487 06159125
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	108087
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SXMAR7 Z09

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


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

1  
4  
B  
I  
L  
I  
T  
Y  
C  
E  
N  
S  
E  
S  
E  
P

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

Scale = .3125" / ft.

R=898 U=180 H=Simpson LUS26

w/ (3) 10d Common, 0.148"x3.0" nails in Truss  
w/ (4) 10d Common, 0.148"x3.0" nails in Girder  
Girder is (1) 2X6 min. So Pine

STATE OF  
No. 59687

FLORIDA  
NE



100

90. 800 800 800

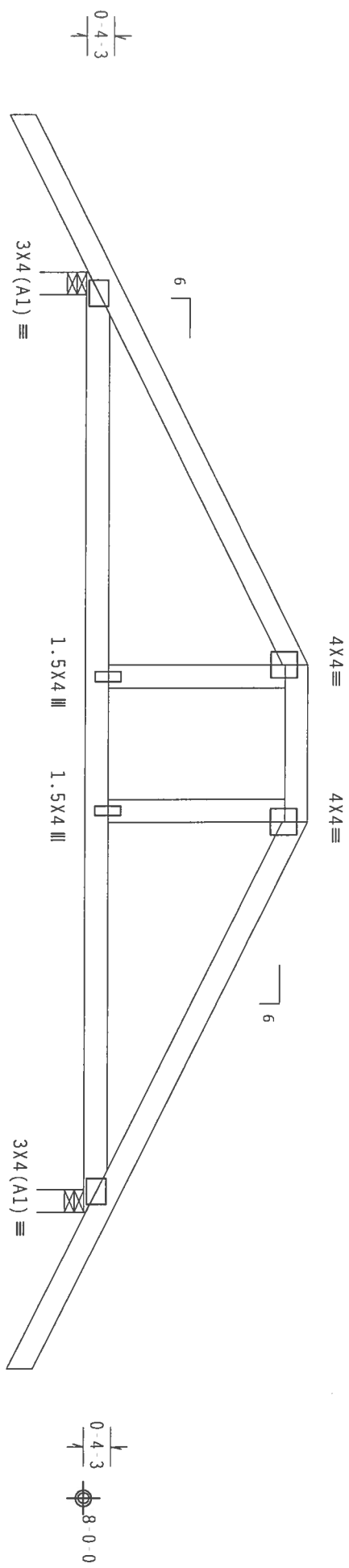
2000

TC LL	20.0 PSF	REF R487 - 88200
TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUR487 06159129
BC LL	0.0 PSF	HC ENG JB/AF
TOT. LD.	40.0 PSF	SEQN- 108093
DUR. FAC.	1.25	
SPACING	24.0"	JRFF - 1SXW487 Z09

JRFF- 1SXW1R7 Z09

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
#1 hip supports 5-0-0 jacks with no webs.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



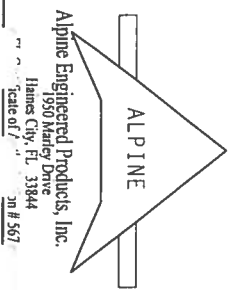
PLT TYP. Wave

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



Scale = .5"/ft.

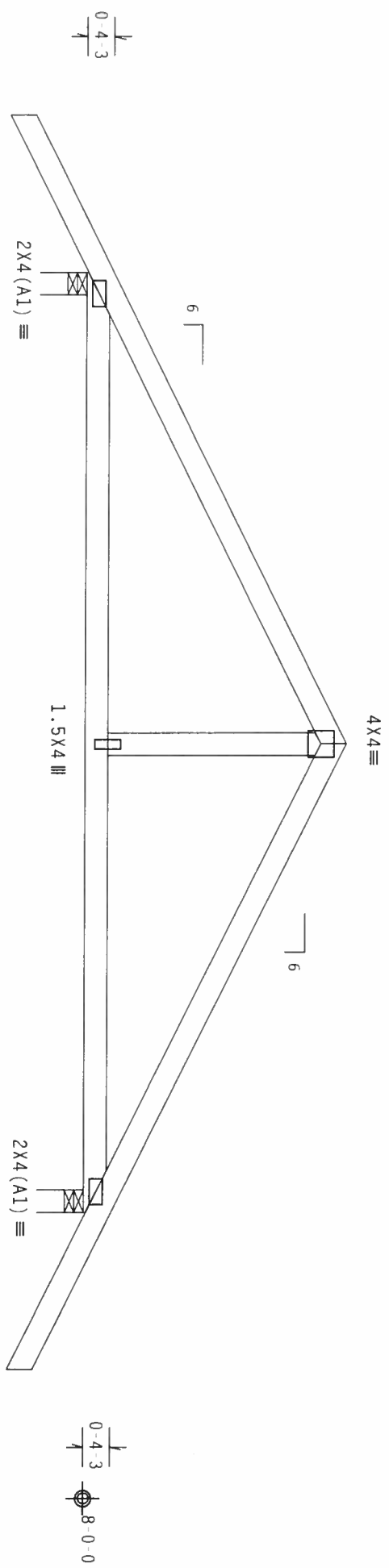
TC LL	20.0 PSF	REF R487-- 88201
TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUSR487 06159022
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 8105
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SXW487 209



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

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, located  
anywhere in roof, CAI II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0  
psf.  
Deflection meets L/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.



2'-0'-0" 6'-0'-0" 12'-0'-0" Over 2 Supports 6'-0'-0" 2'-0'-0"

R=628 U=180 W=3.5"

R=628 U=180 W=3.5"

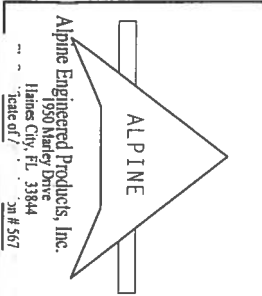
PLT TYP. Wave

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

7.24.12

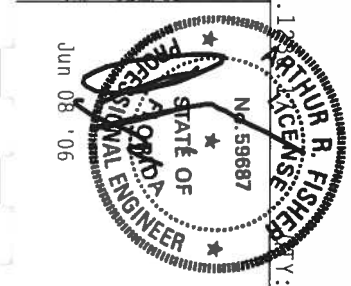
FL/-/4/-/R/-

Scale = .5"/ft.



**\*\*WARNING\*\*** THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.01 BUILDING COMPONENT SAFETY HANDBOOK FOR THE LATEST EDITION OF THE BUILDING COMPONENT SAFETY HANDBOOK, SUITE 200, MADISON, WI 53719 AND WCA HANDBOOK TRUSS CONNECTOR, 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\*\*** 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 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/P) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 4A OF TPI 2002 SEC.3.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN STANDARDS. THE SEAL INDICATES THE SOCIETY HAS REVIEWED THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMST/TPI 1 SEC. 2.

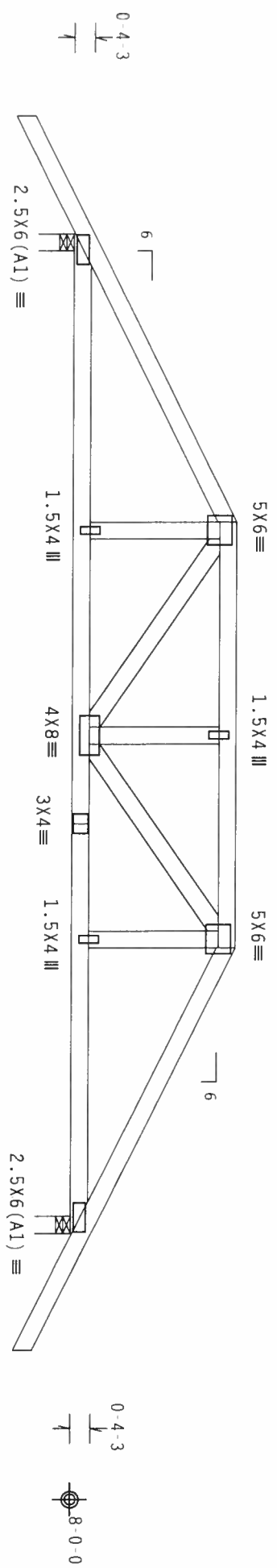


TC LL	20.0 PSF	REF	R487-- 88202
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCSR487 06159025
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEON-	8100
DUR.FAC.	1.25		
SPACING	24.0"	DRF	15XW487 209

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

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, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
#1 hip supports 4-10-8 jacks with no webs.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



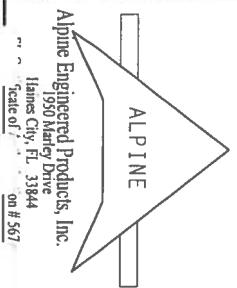
2-0-0  
4-10-8  
7-3-0  
17-0-0 over 2 Supports  
4-10-8  
2-0-0  
R=1151 U=180 W=3.5"

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

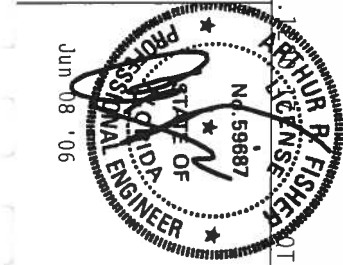
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100 SOUTH ZEEB ROAD, CHICAGO, ILL 60608, FOR THE LATEST EDITIONS OF THE BUILDING COMPONENT SAFETY INFORMATION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS TIGA 2. THE INFORMATION OF PLATES FOLLOWED BY (1) SHALL BE PER AISC A3 OR TPI 2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Scale of: 1/8" = 1'-0"



TC LL	20.0 PSF	REF R487 - 88203
TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUR487 06159130
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEQN 108126
DUR. FAC.	1.25	
SPACING	24.0"	URFF - 1SXW487 Z09

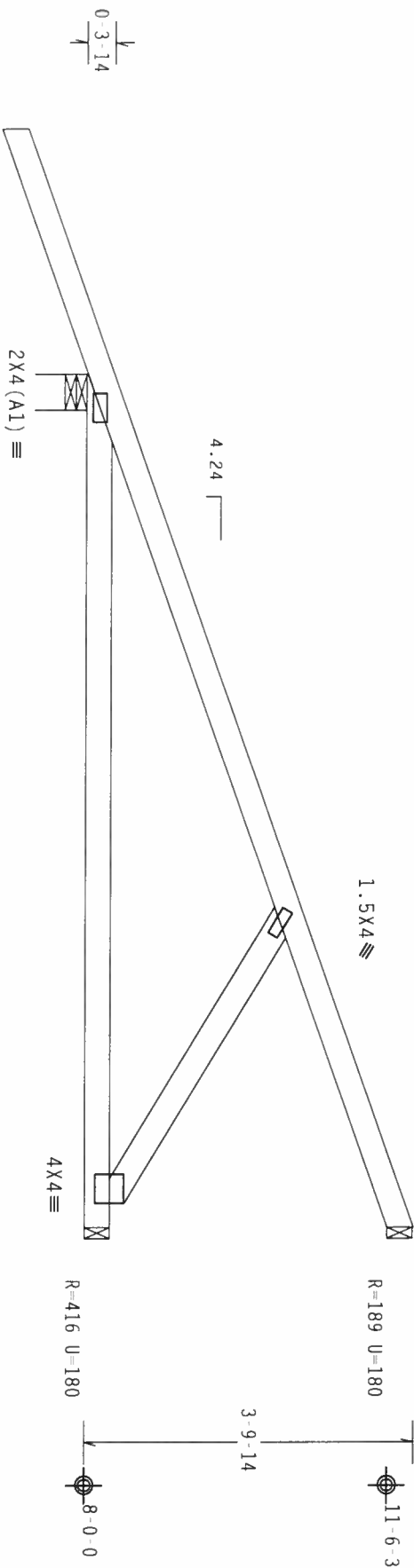
	Top	Bot	Web
chord	2x4	2x4	2x4
SP	SP	SP	SP
#2	#2	#2	#3
Dense	Dense	Dense	

Provide ( 2 ) 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.

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

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



PLT TYP. Wave

Design Crit:  $TPI-2002(STD)/FBC$ 

QTY: 1

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

Scale = .5"/Ft.

**WARNING:** \*TROSSER REQUIRE SPECIAL CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCCL 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPF (TROSSER MAILING, 503 D-001010-01, SUITE 200, MADISON, WI 53719) AND APCA (WOOD TRUSS COUNCIL OF AMERICA, 6100 ENTERPRISE, IN MADISON, WI 53719) FOR SAFETY PRACTICES PERTAINING TO PERFORMING TRUSS FUNCTIONS. \*IF THESE ISSUES INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PARTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED LIGID CILLING.

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

ALPINE ENGINEERING

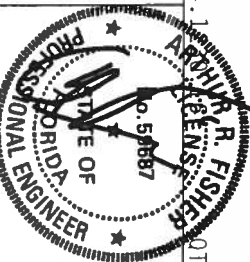
ALPINE

Alpine Engineered Products, Inc.

Haines City, FL 33844

Scale of / 500 # 567

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



Jun 08 '06

TC LL	20.0 PSF	REF	R487 - - 88204
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCUSR487 06159011
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	2126
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SXW487 Z09

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.

BC DL-5.0 psf.

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



7'-0" Over 3 Supports  
R=450 U=180 W=3.5"

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

7.24

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

Scale = .5" / Ft.

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

ALPINE ENGINEERED

TRUSS IN CONFORMANCE WITH TPI:

OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

TRUSSES.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PFR ANNEX A3 OF IP11-2002 SEC.3.

A SEAL ON THIS

Alpine Engineered Products, Inc.

1750 Mainline Drive  
Maines City, FL 33844

Scale of / on # 567

90. 80 unç

FL/-4/-1/R/-		Scale = 5"/ft.
TC LL	20.0 PSF	REF R487 - 88205
TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUR487 06159027
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN 8071
DUR.FAC.	1.25	
SPACING	24.0"	JRFF - ISXWAR7 209

JRFF - ISXWA87 Z09

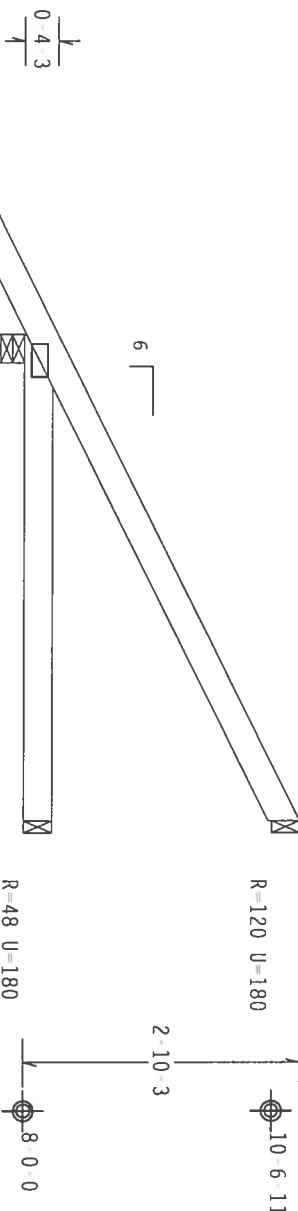
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

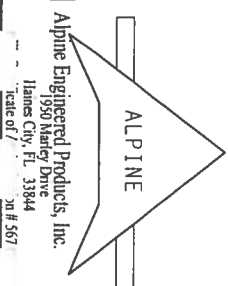
FL/-/4/-/R/-

Scale =.5"/ft.

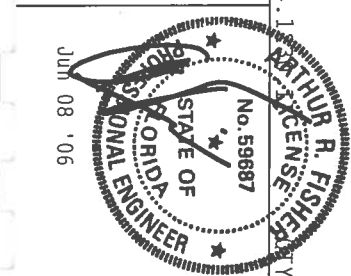
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RIGID CEILING. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*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 AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (CH/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. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE 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  
Scale of: 1/2" = 1'-0"

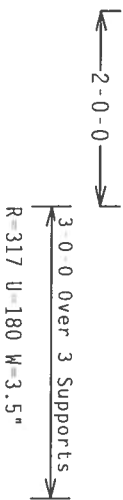


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TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUSR487 06159026
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEQN-8075
DUR. FAC.	1.25	
CDATING	24.0"	JRFF-1SXW07 209

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



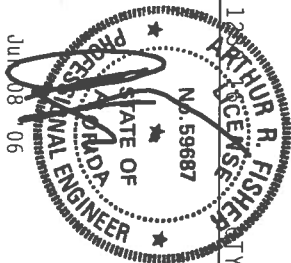
Scale = .5"/Ft.

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

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

1



TC LL	20.0 PSF	REF	R487 - 88207
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCUSR487 06159013
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	87850
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SXW487 Z09

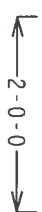
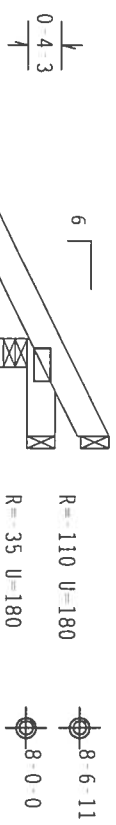
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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



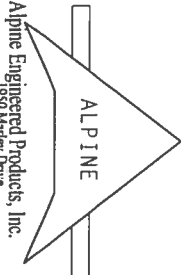
R=361 U=180 W=3.5"

PLT TYP. Wave

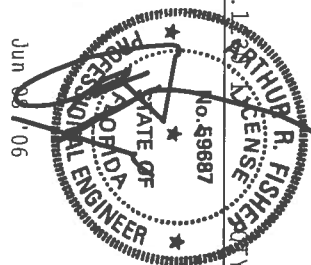
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY) AND WICK (WOOD TRUSS CONSTRUCTION) FOR PROPER 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. APPLY CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASH 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI 1.002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SIGNATURE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone: 888-266-5671



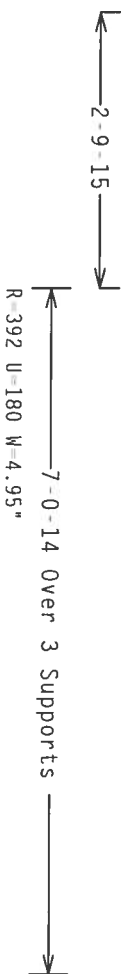
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TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUSR487 06159014
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEQN- 7002
DUR. FAC.	1.25	
SPACING	24.0"	JRFF- 1SXW487 Z09

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110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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 ENGINEERED

Scale of 1 to 100

Scale = .5" / Ft.

Scale = .5" / Ft.

DATE 06/08/06

DRW HCUSR487 06159012

HC-ENG JB/AF

SEQN - 99786

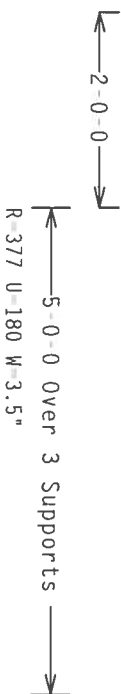
JRFF - 1SXW487 Z09

THE UNIVERSITY OF CHICAGO LIBRARY

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

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

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

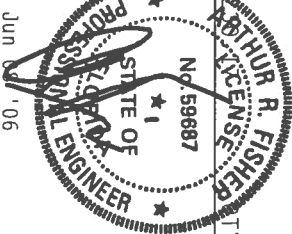
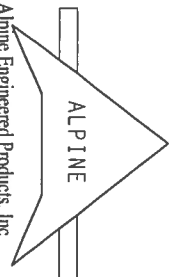


Scale = .5"/Ft.

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

Alpine Engineered Products, Inc.

1930 Marley Drive  
Haines City, FL 33844  
'cale of ' on # 567



TC LL	20.0 PSF	REF	R487 - 88210
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCUSR487 06159015
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN	99551
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	1SXW487 Z09

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

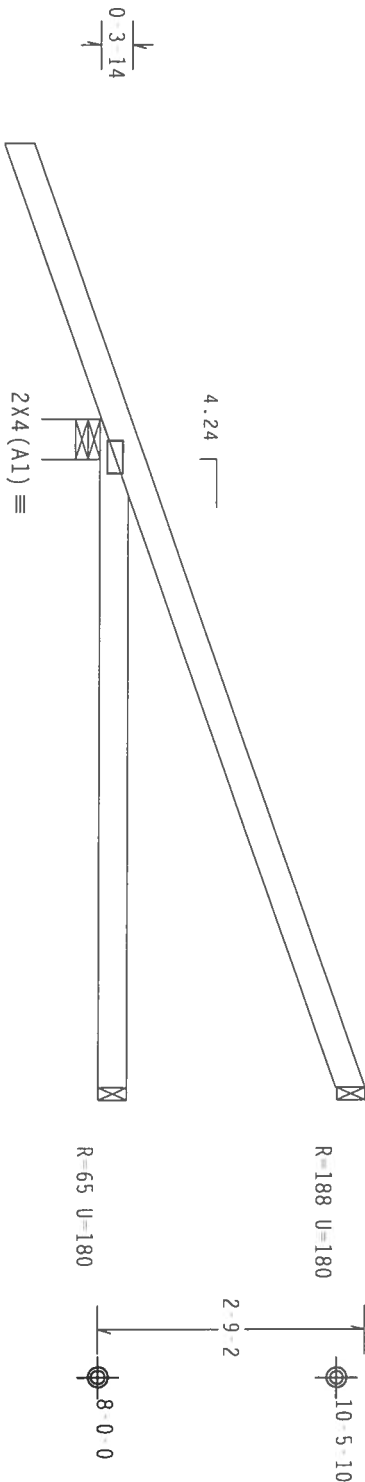
In lieu of structural panels or rigid ceiling use purlins to brace TC @  
24" OC, BC @ 24" OC.

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

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

Hipjack supports 4-10-8 setback jacks with no webs.

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.



2-9-15

6-10-12 Over 3 Supports  
R=385 U=180 W 4.95"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

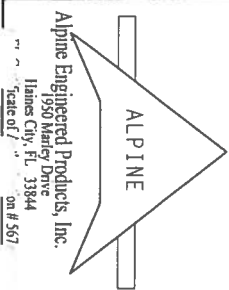
FL/-/4/-/R/-

Scale = .5"/ft.

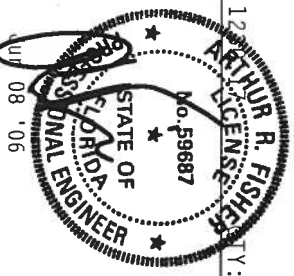
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
RETURN TO THE TRUSS MANUFACTURER FOR INSTRUCTIONS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE TRUSS DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
DOWNSIDE OR, SUITE 200, HANSON, MI 48061, TEL: 313-271-1100, FAX: 313-271-1101, WWW.HANSONTRUSS.COM  
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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE  
CONNECTION PLATES ARE MADE OF 20/18/16GA (W/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 DRAWING 160A.2.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) DRAWING INDICATES, ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGN AND NOT FOR THE MANUFACTURE, SUPPLY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER AISC/TPI 1 SEC. 7.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
on #567



TC LL	20.0 PSF	REF R487-- 88211
TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUSR487 06159131
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 108120
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SXW487 Z09

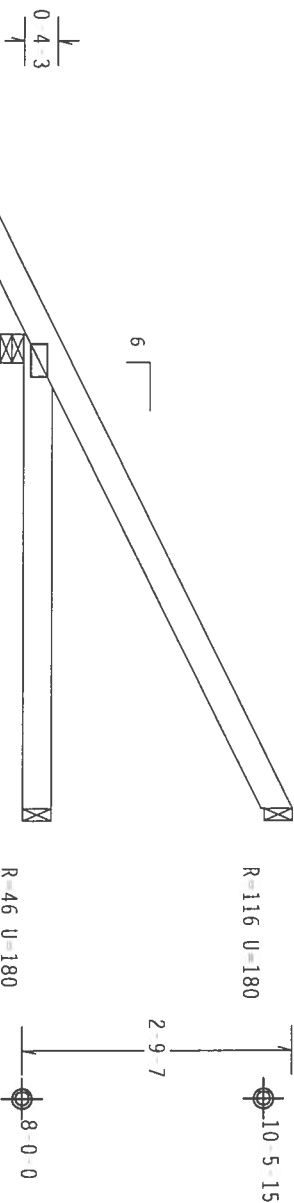
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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



2-0-0

4-10-8 Over 3 Supports  
R=373 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 EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
RECTION TO BEST PRACTICES (INCLUDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 563  
N. 10TH AVE., SUITE 100, MINNEAPOLIS, MN 55412. THESE PRACTICES ARE BASED ON THE ASSUMPTION THAT THE TRUSS  
MANUFACTURER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

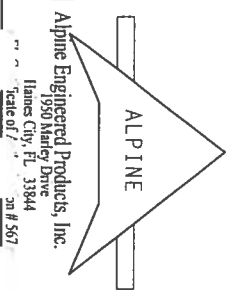
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE  
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 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 SUSTAINABILITY 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-- 88212
TC DL	10.0 PSF	DATE 06/08/06
BC DL	10.0 PSF	DRW HCUSR487 06159126
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 108115
DUR.FAC.	1.25	
SPACING	24.0"	DRFF- 1SXW487 209



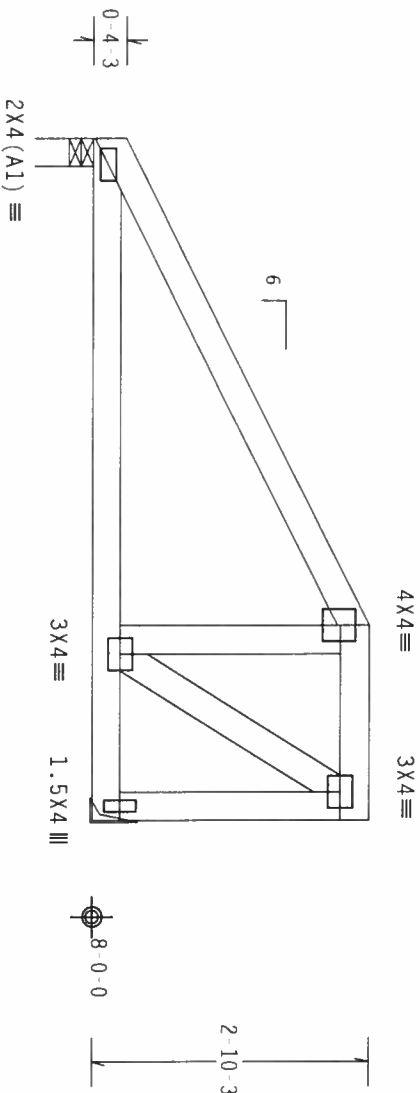
```
#1 hip supports 5-0-0 jacks with no webs.
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Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, 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.



5'-0" 2'-0" 7'-0" Over 2 Supports  
 $P=362$   $U=180$   $W=3.5"$

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1  
EXCHANGE  
PROPERTY: 1

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

Scale = .5" / Ft.

[illegible]

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


ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

scale of 1 to 567

PRODUCTS, THE SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE, INCLUDING A BAKING OF TRUSSES, CONDUCTOR PLATES ARE MADE OF 50/10/16GA (H/H/SR) A578 A563 GR60 40/60 (N) K11.1 GALV STEEL. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON DESIGN, POSITION PER DRAWINGS. ADD A AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX A-4 OR TPII 2007 SEC.3. A SEAL ON THIS DESIGN INDICATES THE SEALING OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SIGNATURE OF THE SEALING OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMEX/TPPI 1 SEC. 2.

		R-488 U180 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 hole (1) 2x6 min. So. Pine
CITY: 1 FL / - / 4 / - / R / -		
TC LL	20.0 PSF	
TC DL	10.0 PSF	
BC DL	10.0 PSF	
BC LL	0.0 PSF	
TOT. LD.	40.0 PSF	
DUR. FAC.	1.25	
SPACING	24.0"	

TC LL	20.0 PSF	REF	R487 - -	88213
TC DL	10.0 PSF	DATE	06/08/06	
BC DL	10.0 PSF	DRW	HCUSR487	06159132
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEON -	108112	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF -	1SXMR487	Z09

REF	R487--	88213
DATE	06/08/06	
DRW	HCUSR487	06159132
HC-ENG	JB/AF	
SEON-	108112	
JRFF-	15XMA87	209

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

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

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.

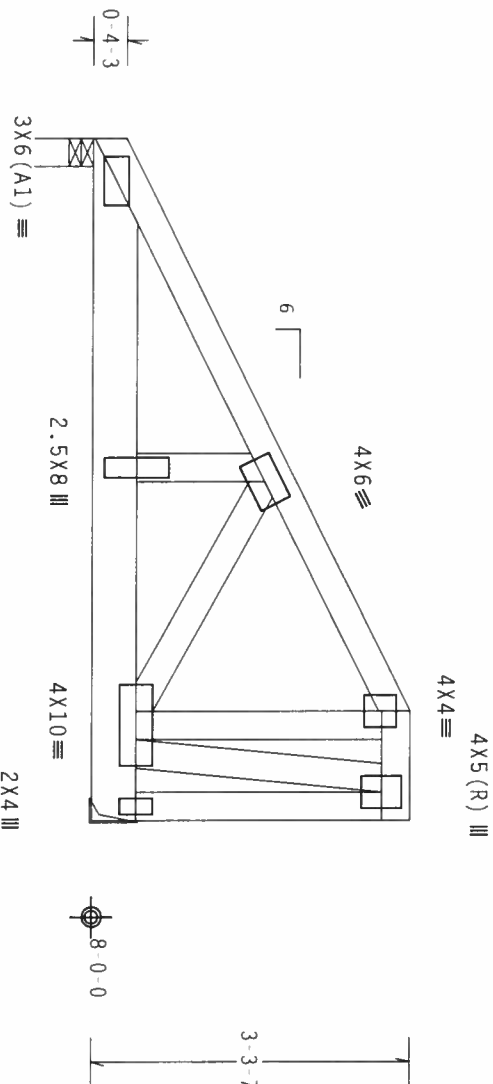
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 62 PLF at 0.00 to 62 PLF at 7.00  
BC - From 20 PLF at 0.00 to 20 PLF at 7.00  
BC - 898 LB Conc. Load at 1.06, 3.06, 5.06

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



7'-0-0 Over 2 Supports  
R=1842 U=180 W=3.5"

R=1429 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 Girder  
Girder is (1) 2x6 min. So.Pine

PLT TYP. Wave

Design CRT: TPI-2002(STD)/FBC

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

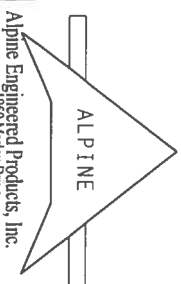
7.24.1

FL/-/4/-/R/-

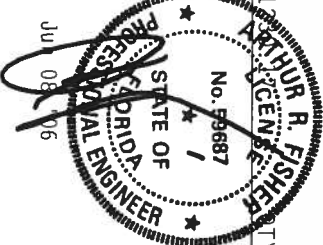
Scale = 5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BEST PRACTICES FOR TRUSS FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. SEE  
DOWNSIDE, 10300 W. 10TH AVE., SUITE 200, MINNEAPOLIS, MN 55420. TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR  
PROVIDING THE TRUSS FABRICATOR WITH THE TRUSS FABRICATOR'S OWNERSHIP AND TRUSS FABRICATOR'S OWNERSHIP.  
TRUSS FABRICATOR 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 AND BRACING OF TRUSSES,  
CONNECTIONS, OR TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR THE TRUSS FABRICATOR'S OWNERSHIP AND TRUSS FABRICATOR'S OWNERSHIP.  
CONNECTIONS SHALL BE MADE OF 20/18/16GA (W/H/S) ASTM A553 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 106A 2.  
AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF THE 2002 SEC.3. A SEAL ON THIS  
DESIGN INDICATES THE SIGNATURE OF THE TRUSS FABRICATOR'S OWNERSHIP AND TRUSS FABRICATOR'S OWNERSHIP.  
BUILDING DESIGNER PER ANSI/SPRI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Tel: 888-267-5677



TC LL	20.0 PSF	REF	R487-- 88214
TC DL	10.0 PSF	DATE	06/08/06
BC DL	10.0 PSF	DRW	HCSR487 06159133
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	108104
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-15XW487	209

