

# 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: 1T1E487-Z0112130329

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-347--Will Myers Morris -- , \*\*  
Truss Count: 71  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Versions 7.25, 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 - 32.0 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: BRCLBSUB-CNBRGBLK-A11015EC-GBLLETIN-A11015EE-PIGBACKA-PIGBACKB-

Seal Date: 10/12/2006

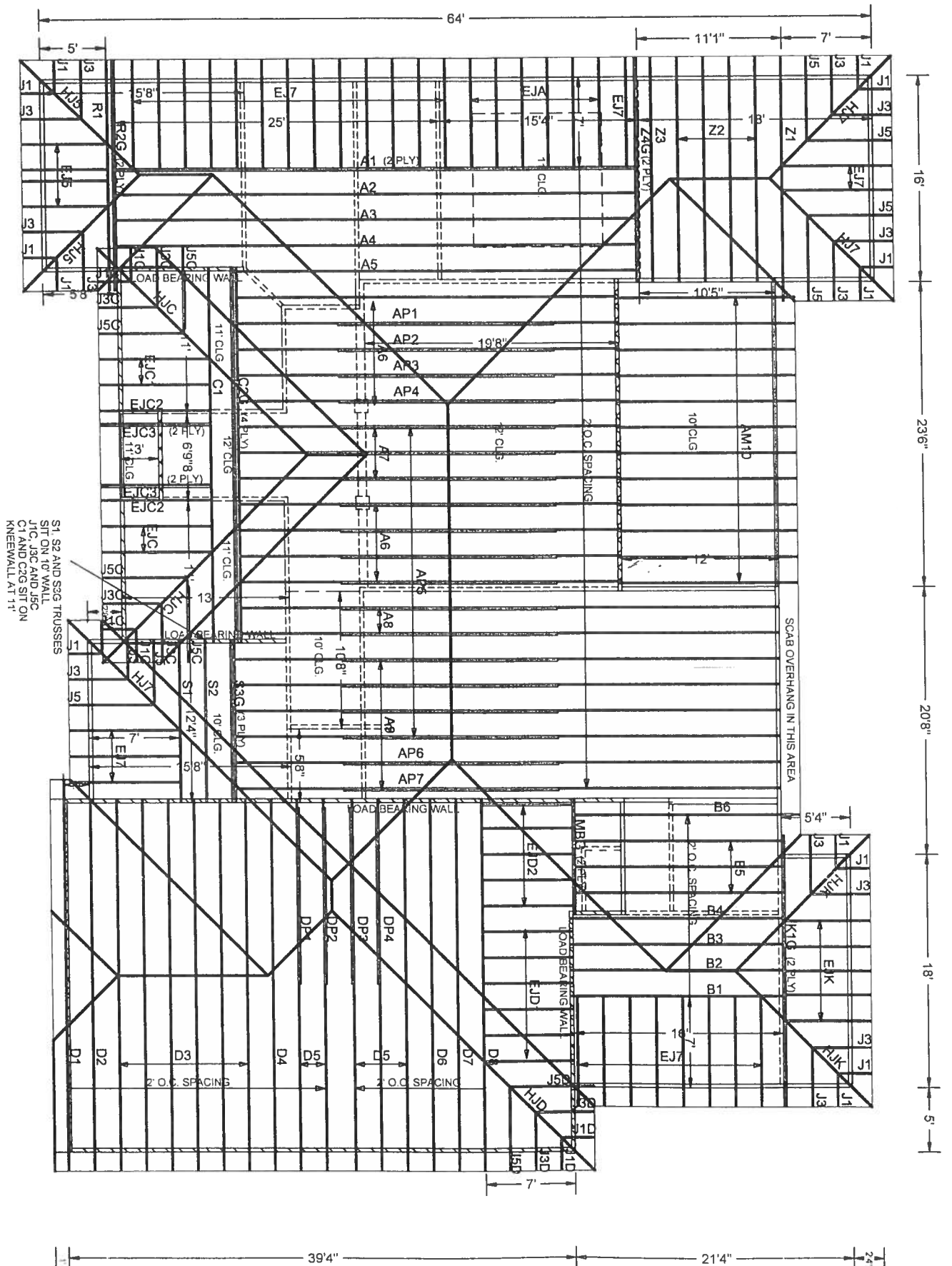
-Truss Design Engineer-  
Arthur R. Fisher

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

#	Ref	Description	Drawing#	Date
1	18779--A1		06285079	10/12/06
2	18780--A2		06285003	10/12/06
3	18781--A3		06285004	10/12/06
4	18782--A4		06285005	10/12/06
5	18783--A5		06285006	10/12/06
6	18784--A6		06285071	10/12/06
7	18785--A7		06285111	10/12/06
8	18786--A8		06285116	10/12/06
9	18787--A9		06285110	10/12/06
10	18788--AM10		06285109	10/12/06
11	18789--B1		06285007	10/12/06
12	18790--B2		06285008	10/12/06
13	18791--B3		06285009	10/12/06
14	18792--B4		06285010	10/12/06
15	18793--B5		06285118	10/12/06
16	18794--B6		06285098	10/12/06
17	18795--MBG		06285080	10/12/06
18	18796--C1		06285067	10/12/06
19	18797--C2G		06285074	10/12/06
20	18798--D1		06285075	10/12/06
21	18799--D2		06285081	10/12/06
22	18800--D3		06285078	10/12/06
23	18801--D4		06285086	10/12/06
24	18802--D5		06285092	10/12/06
25	18803--D6		06285091	10/12/06
26	18804--D7		06285090	10/12/06
27	18805--D8		06285089	10/12/06
28	18806--HJ7		06285064	10/12/06
29	18807--EJ7		06285066	10/12/06
30	18808--HJ5		06285084	10/12/06
31	18809--EJ5		06285106	10/12/06
32	18810--J5		06285065	10/12/06
33	18811--J3		06285093	10/12/06
34	18812--J1		06285099	10/12/06
35	18813--EJA		06285112	10/12/06
36	18814--EJC1		06285122	10/12/06

#	Ref	Description	Drawing#	Date
37	18815--EJC2		06285070	10/12/06
38	18816--EJC3		06285123	10/12/06
39	18817--HJC		06285083	10/12/06
40	18818--J5C		06285085	10/12/06
41	18819--J3C		06285088	10/12/06
42	18820--J1C		06285107	10/12/06
43	18821--HJD		06285073	10/12/06
44	18822--EJD1		06285097	10/12/06
45	18823--EJD2		06285096	10/12/06
46	18824--J5D		06285094	10/12/06
47	18825--J3D		06285077	10/12/06
48	18826--J1D		06285076	10/12/06
49	18827--HJK		06285072	10/12/06
50	18828--EJK		06285069	10/12/06
51	18829--K1G		06285068	10/12/06
52	18830--AP1		06285095	10/12/06
53	18831--AP2		06285102	10/12/06
54	18832--AP3		06285103	10/12/06
55	18833--AP5		06285105	10/12/06
56	18834--AP4		06285104	10/12/06
57	18835--AP6		06285114	10/12/06
58	18836--AP7		06285120	10/12/06
59	18837--DP1		06285100	10/12/06
60	18838--DP2		06285082	10/12/06
61	18839--DP3		06285101	10/12/06
62	18840--DP4		06285087	10/12/06
63	18841--R1		06285119	10/12/06
64	18842--R2G		06285011	10/12/06
65	18843--S1		06285113	10/12/06
66	18844--S2		06285108	10/12/06
67	18845--S3G		06285115	10/12/06
68	18846--Z1		06285063	10/12/06
69	18847--Z2		06285117	10/12/06
70	18848--Z3		06285121	10/12/06
71	18849--Z4G		06285012	10/12/06





#6-347 WILL MYERS - MORRIS

10/3/06

( 6-347-Willi Myers Morris - , \*\* - A1 )

Top chord 2x6 SP #2 : T1 2x4 SP #2 Dense:  
Bot chord 2x6 SP #2 : B3 2x6 SP #1 Dense:  
84 2x4 SP #2 Dense:

Weds 2x4 SP #3 : W10, W12 2x4 SP #2 Dense:

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

SPECIAL LOADS

TC - From	64 PLF at 0.00 to	64 PLF at 1.33
TC - From	129 PLF at 1.33 to	129 PLF at 27.50
TC - From	137 PLF at 27.50 to	137 PLF at 37.54
TC - From	129 PLF at 37.54 to	129 PLF at 40.00
BC - From	20 PLF at 0.00 to	20 PLF at 1.33
BC - From	51 PLF at 1.33 to	51 PLF at 27.50
BC - From	43 PLF at 27.50 to	43 PLF at 37.54
BC - From	51 PLF at 37.54 to	51 PLF at 39.71

2 COMPLETE TRUSSES REQUIRED

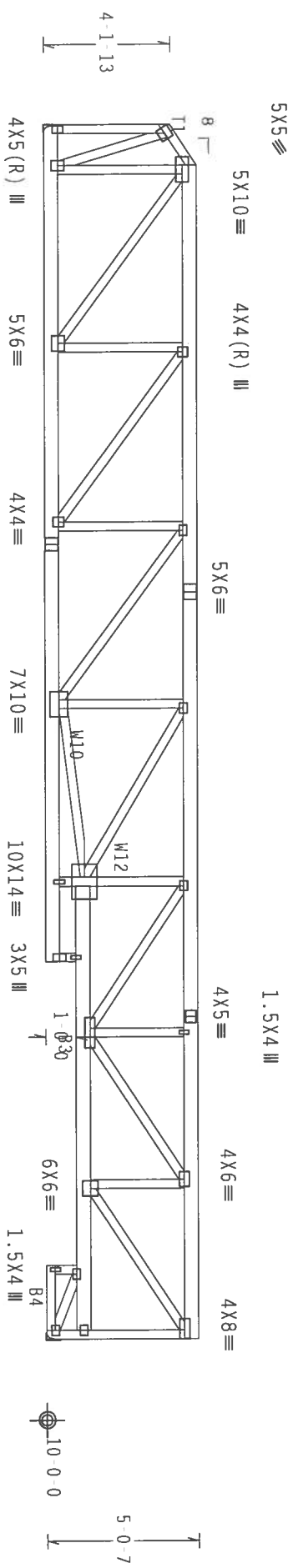
Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Weds : 1 Row @ 4" o.c.

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

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

End verticals not exposed to wind pressure.

Laterally brace BC at 24" OC in lieu of rigid ceiling. Laterally brace BC above filler at 24" OC including a lateral brace at chord ends.



1-4 0  
25-0-0  
38-8-0  
12-2-8  
0-5 8  
R=3552 U-382  
40-0-0 Over 2 Supports  
R=3578 U-385

Note: All Plates Are 3x4 Except As Shown.

PLT TYP. Wave

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

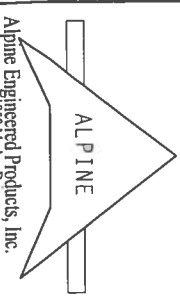
7.25.00

FL/-/4/-/R/-

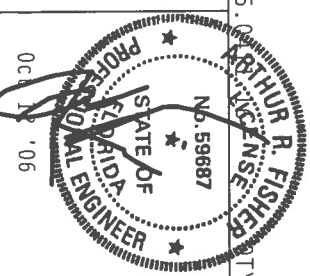
Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR GRADE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BC31-1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 594 D. GORDON DR., SUITE 200, HANSON, WI 53129) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, HANSON, WI 53129) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF WCA (OPTIONAL DESIGN SPEC. BY AREA) AND TPI: ALPINE CONDUCTOR PLATES ARE MADE OF 20/18/16GA (W/N/3/2) ASH A653 GRADE 40/50 (W. 6/1/5) GALV. STEEL. THE 2-PLATE DESIGN IS FOR USE ON TRUSSES WITH 2-PLATE TOP CHORDS. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/TP1 SEC. 2



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Tel: 888-244-2444  
Fax: 888-244-2444



TC LL	20.0 PSF	REF R487 - 18779
TC DL	10.0 PSF	DATE 10/12/06
BC DL	10.0 PSF	DRW HCUSR487 06285079
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEGN- 84139 REV
DUR.FAC.	1.25	
SPACING	SEE ABOVE	DRFF- 171F487 201

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.11" due to live load and 0.17" due to dead load.

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.

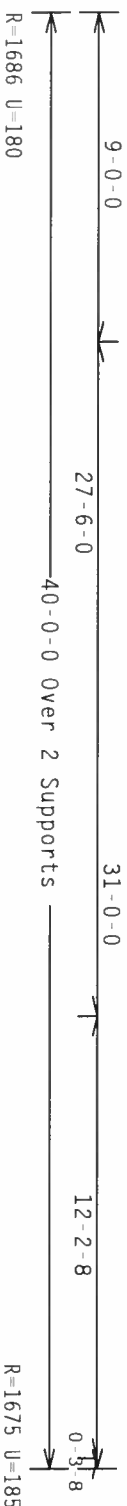
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC=DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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

(A) Continuous lateral bracing equally spaced on member. Or 2x4 SP #3 or better "T" brace, 80% length of web member. Attached With 16d Box or Gun (0.15"x3.5",min.) nails @ 6" OC.

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)

7.24.1387

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

Scale = .1875"/Ft.

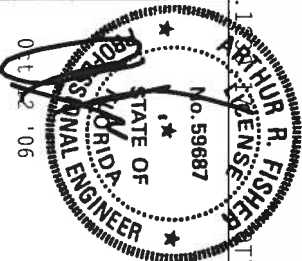
\*WARNING\* - TRUSSES REQUIRE CAREFUL FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO GC-1 TO (DOWLOAD) COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, 503 O'DONNELL DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD RAISED JOINTS CONSULT, OF AMERICA, 6700 ENTERPRISE 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 TOP CHORD CEILING.

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

ALPINE

Alpine Engineered Products, Inc.

James City, FL 33844  
 FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 18780
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285003
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	131654
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T1E487_201

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

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.10" due to live load and 0.16" due to dead load.

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

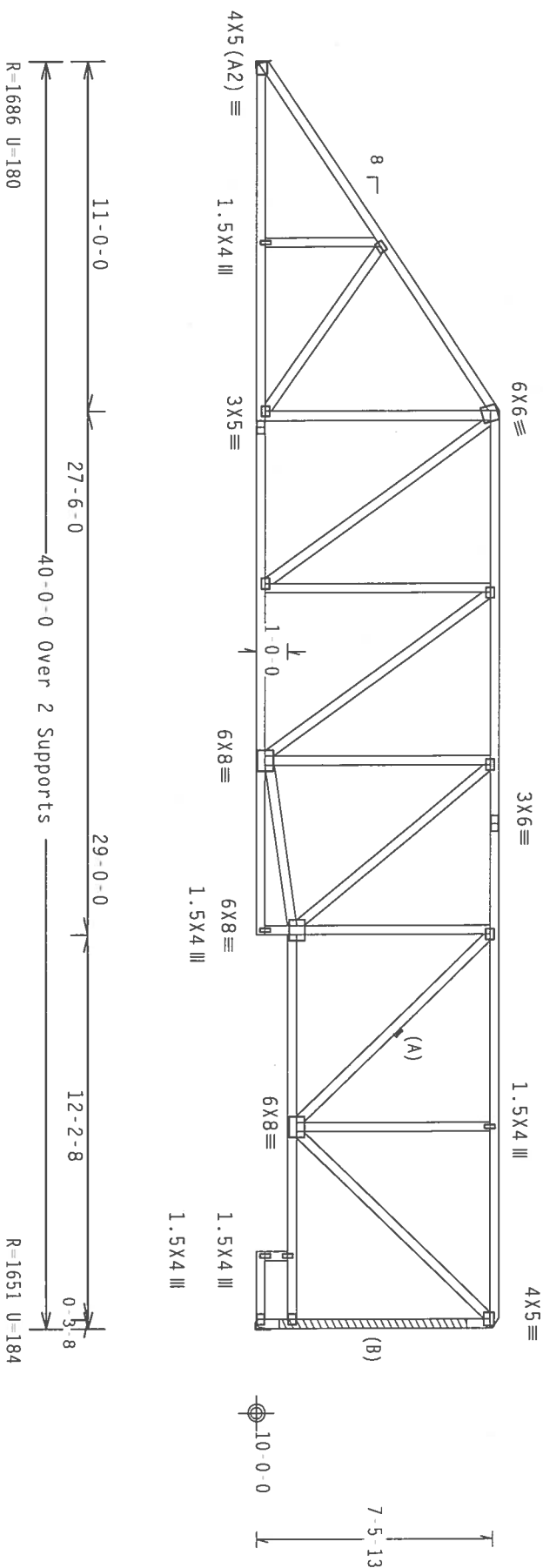
SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.  
 Laterally brace bottom chord above filler  
 at 24" o.c. and top chord under filler at 24" oc including a  
 lateral brace at chord ends.

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

Right end vertical not exposed to wind pressure.

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

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



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

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

7.24.1

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

Scale = .1875"/Ft.

**\*WARNING:** THESE REQUIRE EXPERTISE, CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRAGING. REFER TO BC61 TO OBTAINING COMPETENT SAFETY INFORMATION, PUBLISHED BY TPI (TROSS PLATE INSTITUTE, 563 O'DONNELL RD., SUITE 200, HADSPEN, MI 49319) AND APCA (WOOD FRESS CORPORATION OF AMERICA, 6200 ENTERPRISE LN, HADSPEN, MI 49319) FOR SAFETY PRACTICES PERTAIN TO REPAIRING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TIGID CEILING.

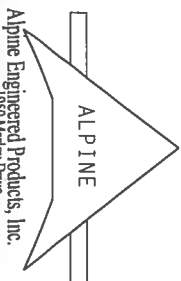
**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.**

TRUSS IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

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

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

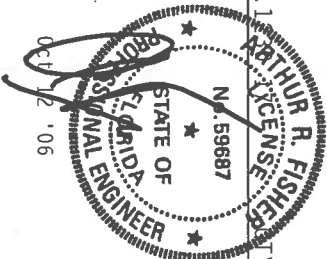
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

[illegible]

Alpine Engineered Products, Inc.  
1050 Madison Drive

Haines City, FL 33844

El Certificate of Adoption # 547



TC LL	20.0 PSF	REF	R487 - 18781
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285004
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	131683
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T1E487_201



Calculated horizontal deflection is 0.09" due to live load and 0.16" due to dead load.

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

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

SEE DWGS. REINFORCING AND BRACINGS 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 6.50 ft from roof edge, CAT 11, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(C) 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.

(B) Continuous lateral bracing equally spaced on member. Or 2x4 SP #3 or better "T" brace, 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.



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

7.24.1 ~~CONFIDENTIALITY~~: 1

Scale = .1875"/Ft.

**WARNING:** THESE BUILDING COMPONENTS ARE FABRICATED, MANUFACTURED, SHIPPED, INSTALLING AND BRACING REFER TO BCCL 1-03 (BUILDING EXPERTISE SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATING INSTITUTE), 563 D-001010 RD., SUITE 200, HADISON, NJ 07739 AND A/E (ARCHITECT) MUST CONSULT OF A/E/F/C, 6300 ENTERPRISE IN HADISON, NJ 07739 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 LIGID CEILING.

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

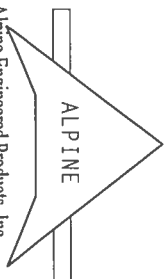
TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING C

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

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

DRAWING INDICATES ACCEPTANCE OF FIVE-STAR ENERGY RATING. SELECT FOR THE FIVE-STAR RATING. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.

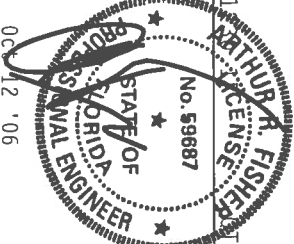
BUILDING DESIGNER PER ANSI/SPR 1 SEC. 2.



Alpine Engineered Products, Inc.

1950 Marley Drive

FI Certificate of Authorization # 567



FL/-/4/-/R/-		Scale = .1875"/Ft.	
TC LL	20.0 PSF	REF	R487 - 18782
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	H05R487 06285005
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN	131699
DUR.FAC.	1.25		
SPACING	24.0"	JREF	IT1F487_Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Webs	2x4	SP	#3	:W3 2x4 SP #2 Dense:

(A) Continuous lateral bracing equally spaced on member.

110 mph wind; 18.45 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



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

7.24.

QTY:1

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

Scale = .1875"/Ft.

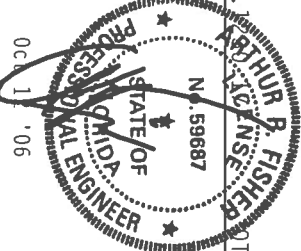
\*WARNING\* - FRASSES REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SPEC 1 TO (BUILDING COMPONENTS SYSTEM INFORMATION), CONSULTED BY IPI (IRONPS PLATE INSTITUTE), 563 O'ROURO DR., SUITE 200, MADISON, WI 53719, AND VICA (WOOD FRASS COUNCIL OF AMERICA), 6300 ENTERPRISE BL, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TUBES IN CONFORMANCE WITH TPI OR FARCILCOT, HANDLING, SHIPPING, INSTALLING & BRACING OF TUBES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. AIRPINE

Alpine Engineered Products, Inc.

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



TC LL	20.0 PSF	REF	R487 - 18783
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285006
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN	131632
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T1E487_201





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

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.18" due to live load and 0.29" due to dead load.

Collar-tie-raced with continuous lateral bracing at 24" OC. or rigid ceiling.

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



Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .1875"/Ft.

**WARNING:** THESE TABLES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRAGING. REFER TO BECI 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLASTIC INSTITUTE, 503 D'ORNBROOK RD., SUITE 200, MADISON, WI 53719) AND WCA (WOOD FRASS COUNCIL OF AMERICA, 6500 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

DESIGN CONFORMS WITH APPLICABLE

TP1. ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive

James City, FL 33844  
Certificate of Authorization # 667

ARTHUR R. FISHER  
LICENSE

No/59687

☆

5 AIBU

100

# NOVIALE

1.06

TC LL	20.0 PSF	REF R487-- 18785
TC DL	10.0 PSF	DATE 10/12/06
BC DL	10.0 PSF	DRW HCUSR487 06285111
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SECN- 131270
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 111E487_201

PREPARED FOR LITHUANIAN (LVAUS & DIMENSION) SUBMITTED BY IKUSZ MK.

(\*\*) 5 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member. Or 2x8 SP #3 or better "T" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 10-1-0 to 22-1-0.

Laterally brace BC at 24" OC in lieu of rigid ceiling  
laterally brace BC above filler at 24" OC including a  
lateral brace at chord ends.

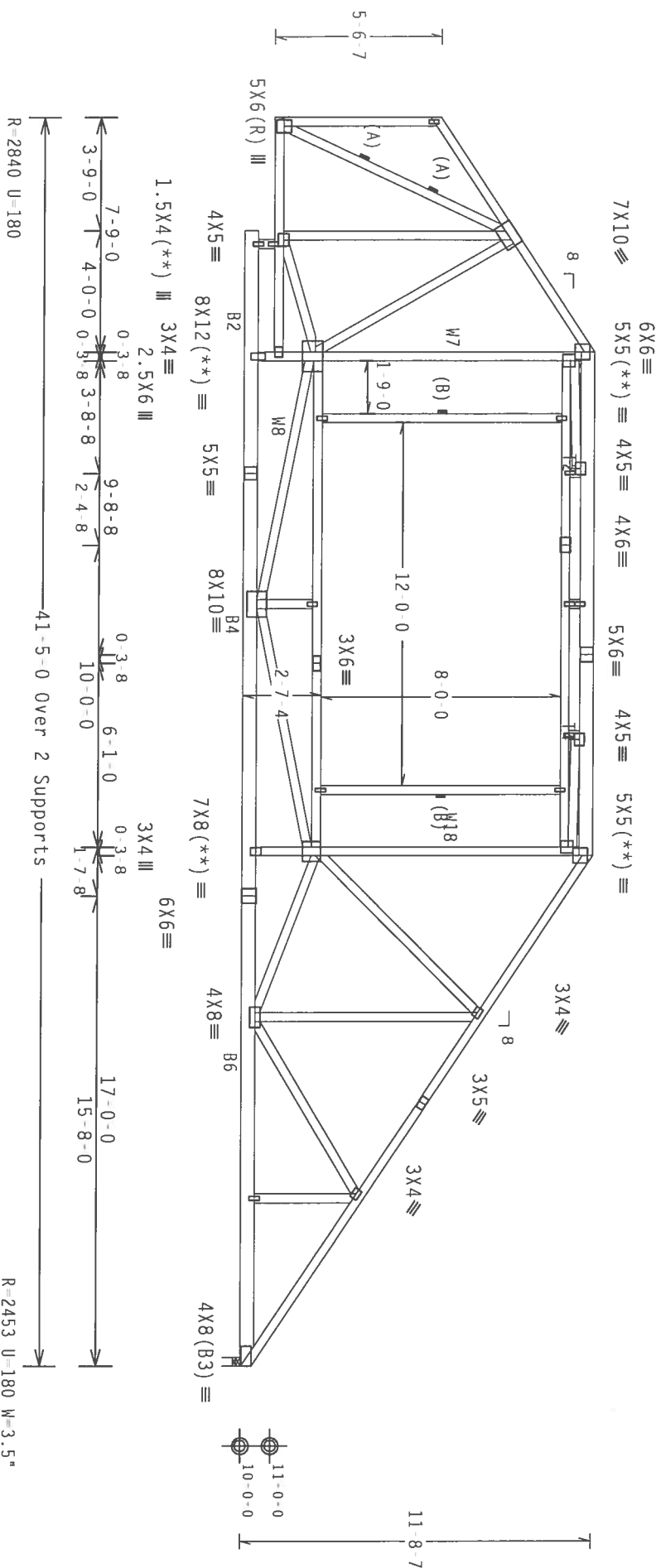
(B) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace, 80% length of web member. Attached with 8d box or gun (0.113"x2.5", min.) nails @ 6" OC.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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

Calculated vertical deflection is 0.40" due to live load and 0.62" due to dead load at X = 16'-1-0".

6X6≡



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

**WARNING:** PRIORS REQUIRE EXTREMELY CARE IN FABRICATION, INSTALLATION, AND BRACING. REFER TO DESIGNS FOR BUILDING COMPONENT SAFETY INFORMATION. DEVELOPED BY TPI (RUSSELL PEARCE INSTITUTE, 503 D ORO RD., SUITE 200, MADISON, WI 53719) AND WFLA (WOOD BRUCE CONSULTING, 4005 E. 63RD STREET, IN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

Alpine Engineered Products, Inc.

James City, FL 33844  
Certificate of Authorization # 461

1. R. HUR. R. FISHE  
J. BENS  
07

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

Scale = .1875"/Ft.

TC LL 20.0 PSF

REF R487 -- 18786

TC DL 10.0 PSF

DATE	10/12/06
------	----------

BC DL 10.0 PSF

DRW HCUSR487 06285116

BC LL 0.0 PSt

HC-ENG TCE/AF

101.LD. 40.0 PSF

SEQN -	131451
--------	--------

DUR.FAC. 1.25

[illegible]

SPACING      24.0"

JREF - 1T1E487-201

Top chord 2x4 SP #2 Dense: T2, T4 2x6 SP #2:  
Bot chord 2x6 SP #2 :B2, B4 2x4 SP #2 Dense:  
B3 2x6 SP #1 Dense:

Left end vertical not exposed to wind pressure.

Calculated vertical deflection is 0.41" due to live load and 0.63" due to dead load at  $X = 16-1-0$ .

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 10-1-0 to 22-1-0.



PLT TYP. Wave	Design cr. cr.	RT-2002 (S10) /TBC	Cq/RT=1.00 (1.25) /

Scale = .1875"/Ft.

**\*\*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

Alpine Engineered Products, Inc.  
1950 Marley Drive

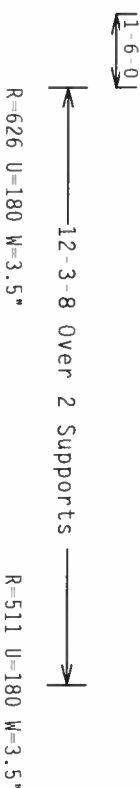
Haines City, FL 33844  
Certificate of Authorization # 567



1. FL/-/4/-/-/R/-		Scale = .1875"/ft.
TC LL	20.0 PSF	REF R487 - 18787
TC DL	10.0 PSF	DATE 10/12/06
BC DL	10.0 PSF	DRW HCU58487 06285110
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 131444
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T1E487_Z01

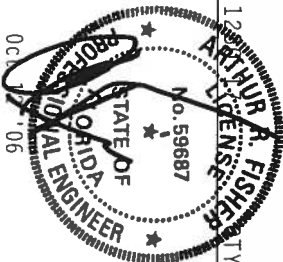
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

Right end vertical not exposed to wind pressure.

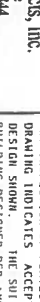


Scale = .25"/Ft.

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



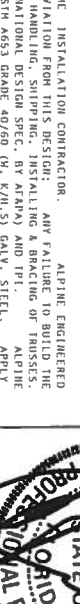
ALPINE



**Alpine Engineering Products, Inc.**  
1950 Haden Drive  
Haines City, FL 33844  
Certificate of Authorization # 567

**\*\*WARNING\*\*** TRUSSES REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 O-GONFORD DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO MENTORING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID SEALING.

**\*\*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 THIS: OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (K/1/5) GALV. STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLICIT 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/TPI1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	18788
TC DL	10.0 PSF	DATE	10/12/06	
BC DL	10.0 PSF	DRW	HCSR487 06285109	
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEON-	131527	
DUR.FAC.	1.25			
SPACING	24.0"	UREF-	1TIE487_201	

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

	(LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)
TC From 134 PLF at 0.00 to 134 PLF at 16.29	
BC From 44 PLF at 0.00 to 44 PLF at 16.00	

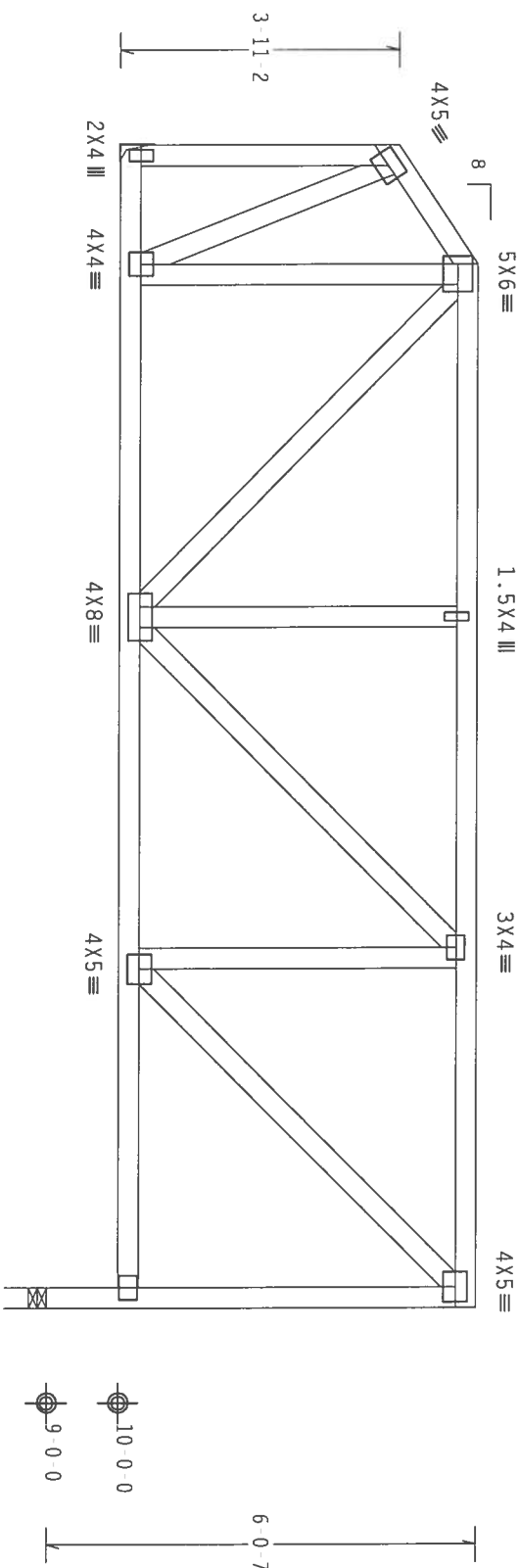
LEG DOWN DESIGNED FOR VERTICAL LOADS ONLY

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 MWRFS pressures.

End verticals not exposed to wind pressure.

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



1'-8" 0 1

14'-7"-8

16'-3" 8 Over 2 Supports

R=1434 U=180

R=1447 U=180 W=3.5"

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

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

7.24.

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

Scale = .375"/Ft.

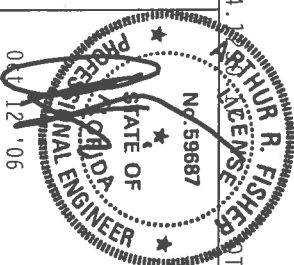
\* \* \*WARNING\* \* \* RISERS REQUIRE EXTERIOR CASE FOR INFORMATION. HANDLING, UNLOADING, INSTALLING AND BRACING REFER TO AC308 (2) BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CONCRETE RESEARCH INSTITUTE, 5403 D'ONOFIO RD., SUITE 200, HAWTHORNE, NJ 07095, AND AISC (300) TRUSS COUNCIL OF AMERICA, 6500 CENTERISE IN HAWTHORNE, NJ 07095 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GIRDOR SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GIRDOR SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

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

CONCRETE PLATES ARE MADE OF 20/18/T1664 (M-15/S16) ASH A63 GRADE 40/60 (M-15/S16) 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 IPII-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT

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



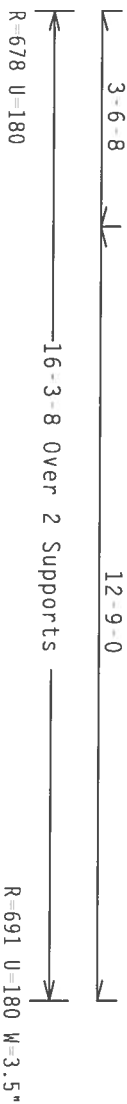
TC LL	20.0 PSF	REF	R487 - 18789
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285007
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	131734
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1TLE487 Z01

110 mph wind, 15.15 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

End verticals not exposed to wind pressure.

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

LEG DOWN DESIGNED FOR VERTICAL LOADS ONLY



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

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

7.24.1

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

Scale = .3125"/Ft.

\*WARNING\*—TRUSSES REQUIRE EXPERTISE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO DECS 1-0 (BUILDING COMPONENT SAFETY INFORMATION), HUNDISHT BY IPI (TRUSS MADE INSTITUTE, 503 D'ORNBROOK DR., SUITE 200, HADISON, NJ 07151) AND WEA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE, IN HADISON, NJ 07157) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTLS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

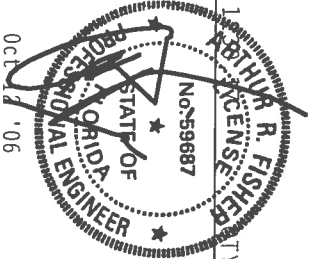
**IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

TRUSS IN CONFORMANCE WITH TP1. OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TP1. ALTHINE CONNECTION PLATE ARE MADE OF GALVANIZED STEEL WITH 10% MINIMUM ZINC COATING.

CONNECTION PLATES MADE OF 2017-T6 ALUMINUM (Mg/Si) ASHRAE 90.1 GRADE 40/60 (H, K/N) S1 GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND... UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER... ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ASHRAE 90.1 GRADE 40/60 (H, K/N) S1 GALV. STEEL. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY STATE FOR THE TRUSS COMPONENTS.

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

Certificate of Acknowledgment # 547



FL/-4/-/R/-		Scale = .3125"/ft.	
TC LL	20.0 PSF	REF	R487 - 18790
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCU8R487 06285008
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	131724
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T1F487_201



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

Wind reactions based on MWFRS pressures.

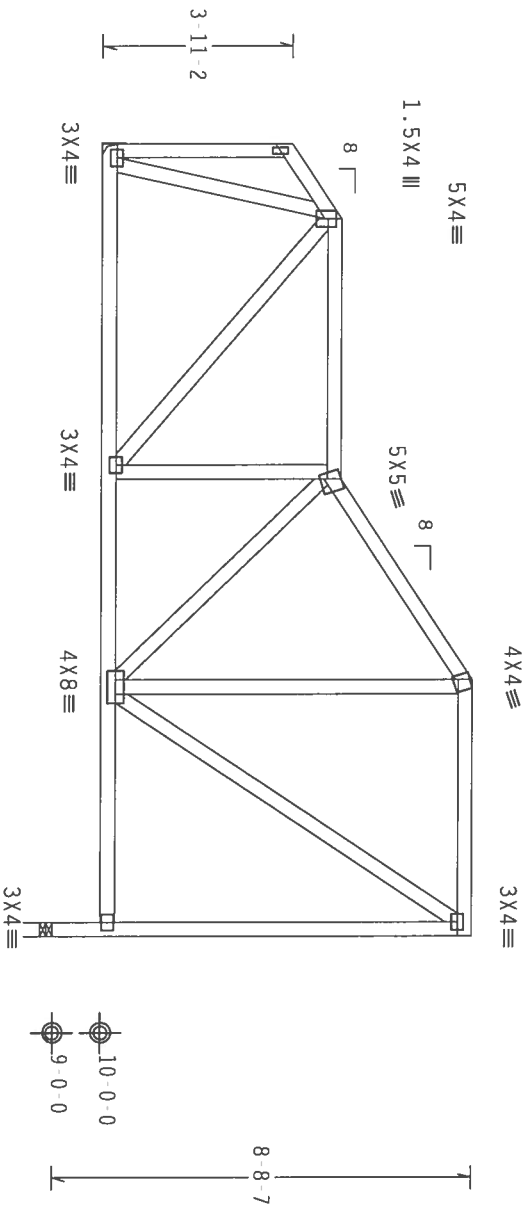
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

LEG DOWN DESIGNED FOR VERTICAL LOADS ONLY

110 mph wind, 15.82 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.

End verticals not exposed to wind pressure.

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



1-6-8 5-4-0 4-1-8 5-3-8  
16-3-8 Over 2 Supports  
R=678 U=180  
R=691 U=180 W=3.5"

PLT TYP. Wave

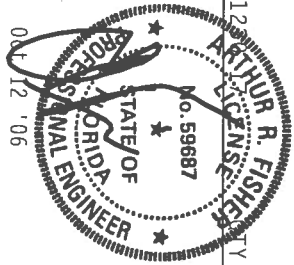
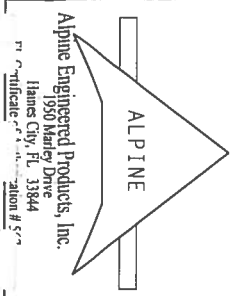
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.12

Scale = .25"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN ERECTION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI AMERICA, 6300 ENTERPRISE BLVD., SUITE 200, MADISON, WI 53719, AND WICKI (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., 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 2010/1604 (W/5/5) ASH 6050 GRADE 40/60 (W/5/5) GALV. STEEL. APPLY CONNECTION PLATES WITH APPLICABLE PROVISIONS OF 2010/1604 (W/5/5) ASH 6050 GRADE 40/60 (W/5/5) GALV. STEEL. APPLY AN INSPECTOR'S SEAL OF APPROVAL TO THE TRUSS. THE SEAL SHALL BE PERMANENT AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF THE TRUSS DESIGN 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--	18791
TC DL	10.0 PSF	DATE	10/12/06	
BC DL	10.0 PSF	DRW	HCSR487	06285009
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT. LD.	40.0 PSF	SEQN-	131717	
DUR. FAC.	1.25			
SPACING	24.0"	JRFF-	1T1F487	Z01

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

Wind reactions based on MWFRS pressures.

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

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

Provide for complete drainage of roof.

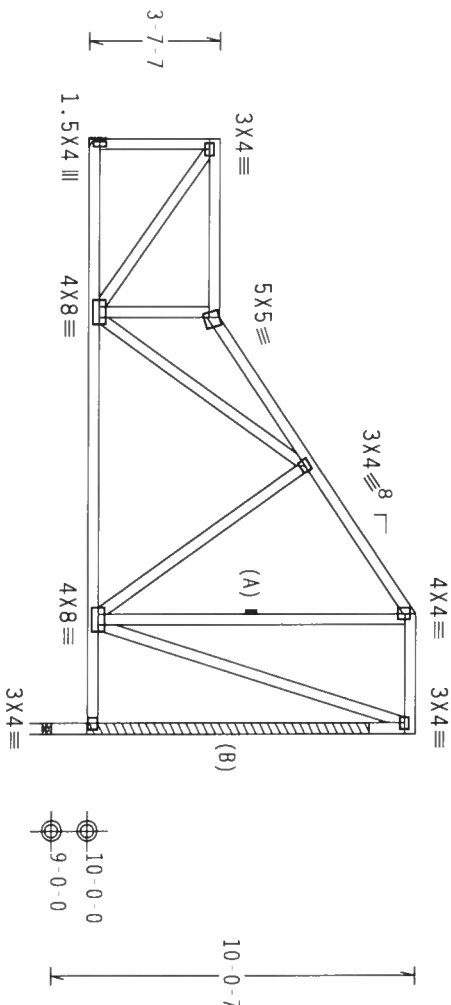
LEG DOWN DESIGNED FOR VERTICAL LOADS ONLY

110 mph wind, 16.33 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.

End verticals not exposed to wind pressure.

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

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



4-10-8 8-1-8 3-3-8  
16-3-8 Over 2 Supports  
R=678 U=180 R=691 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

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

Scale = .1875"/ft.

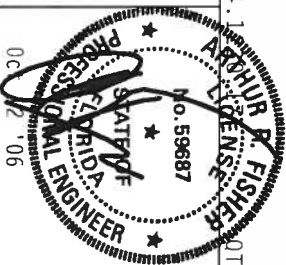
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 DORRIS DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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: TRUSS PLATE INSTITUTE, 503 DORRIS DR., SUITE 200, MADISON, WI 53719; OR WCA: WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719; OR BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 DORRIS DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

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

Professional Engineer License # 5727



TC LL	20.0 PSF	REF	R487 - 18792
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285010
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN-	131710
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	111E487_201

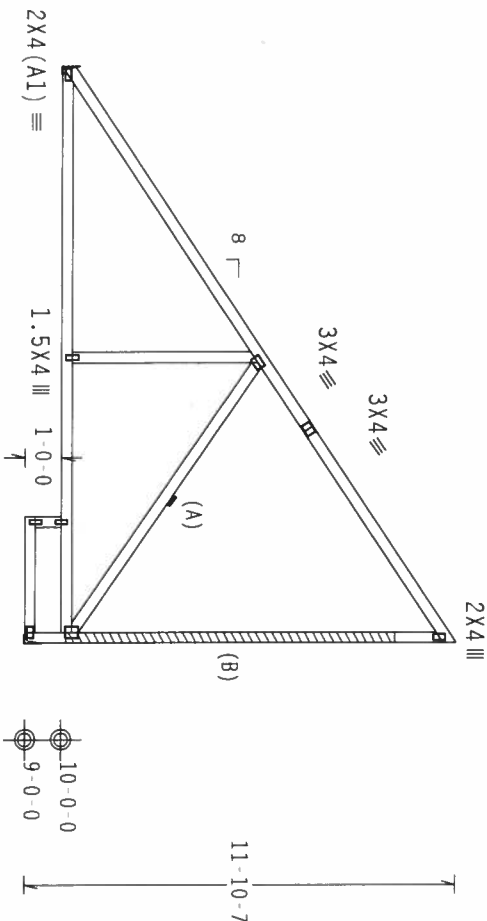
( 6 347 Will Myers Morris , \*\* B5 )

(B) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC. Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Laterally brace BC at 24" OC in lieu of rigid ceiling  
Laterally brace BC above filler at 24" OC including a  
lateral brace at chord ends.

110 mph wind, 15.62 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



$\overbrace{15-5-8}^{0-5-8}$   
 $\overbrace{15-9-0}^{\text{Over 2 Supports}}$   
 $R=667 \quad U=180$

PLT TYP. Wave

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

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

7.24.13

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

Scale = .1875"/Ft.

**\*WARNING\*** THESE RESULTS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRAGING. REFER TO BCS-1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (FIRESS PLAST. INSTITUTE, 503 D. O'ROURO BL., SUITE 200, MADISON, WI 53719) AND NICA (WOOD PRES. COUNCIL OF AMERICA, 6300 ENTERPRISE BL., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE FUNCTIONS. WHENESS GUIDANCE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CHAILLING.

## ADPINE

Alpine Engineered Products, Inc.

El Certificate of Authorization # 567

THUR. R. FISHER  
LICENSE

Scale = .1875"/Ft.

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

7.24.13

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

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

PLT TYP. Wave

## ADPINE

Alpine Engineered Products, Inc.

El Certificate of Authorization # 567

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

Wind reactions based on MWFRS pressures.

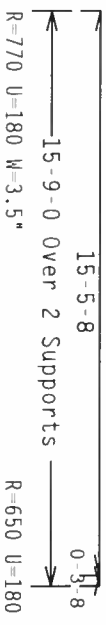
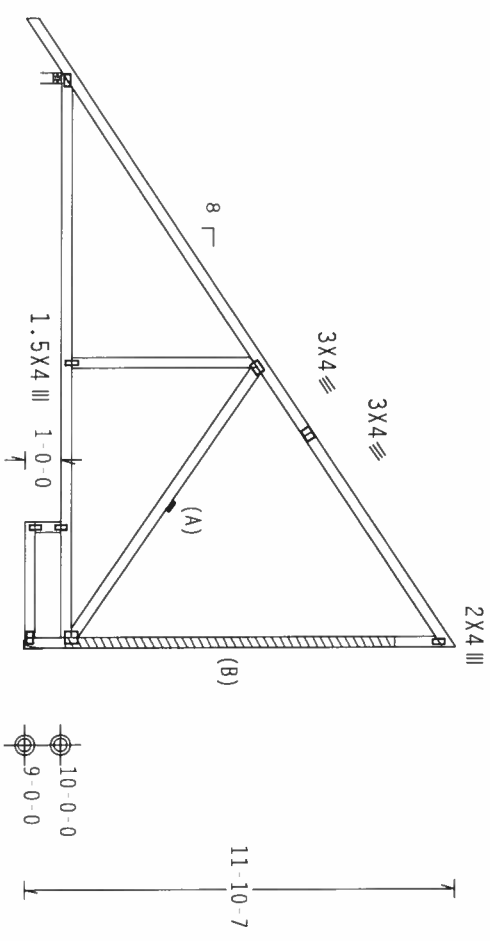
(B) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Laterally brace BC at 24" OC in lieu of rigid ceiling.  
Laterally brace BC above filler at 24" OC including a lateral brace at chord ends.

110 mph wind, 15.12 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.

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



PLT TYP. Wave

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

7.24.12

FL/-/4/-/R/-

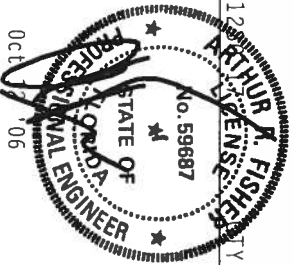
Scale = .1875"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 580 D-0000 RD., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI'S DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTOR PLATES ARE MADE TO 200/180/160S UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER BRANNING 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. BRANNING 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.

ALPINE

Alpine Engineered Products, Inc.  
1500 Marley Drive  
Haines City, FL 33844  
Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 18794
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285098
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	131512
DUR.FAC.	1.25		
SPACING	24.0"	UREF-	11E487_Z01

**2 COMPLETE TRUSSES REQUIRED**  
Nailing Schedule: (12d Common @ 0.148"x3.25")

Nailing Schedule: (12d\_common (0.148"x3.25",\_min.)\_nails)

TC	From	32 PLF at	0.00 to	32 PLF at	9.00	
BC	From	10 PLF at	0.00 to	10 PLF at	9.00	

110 mph wind, 20.07 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

650 LB conc. Load at 1.73

3x6=

 $3 \times 4 =$ 

2-5-0

$$\overline{Y} = 0.6$$

R=2137

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

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

7.25.0

QTY: 1

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

Scale = .1875"/Ft.

ILLING.

RTANT

CONFIDENTIAL

## INDICATION

## HOW TO DESIGN

CONFIDENTIAL

STHUR R. ASHE  
GEN.  
OT

**No. 79687**

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Oct 12 6

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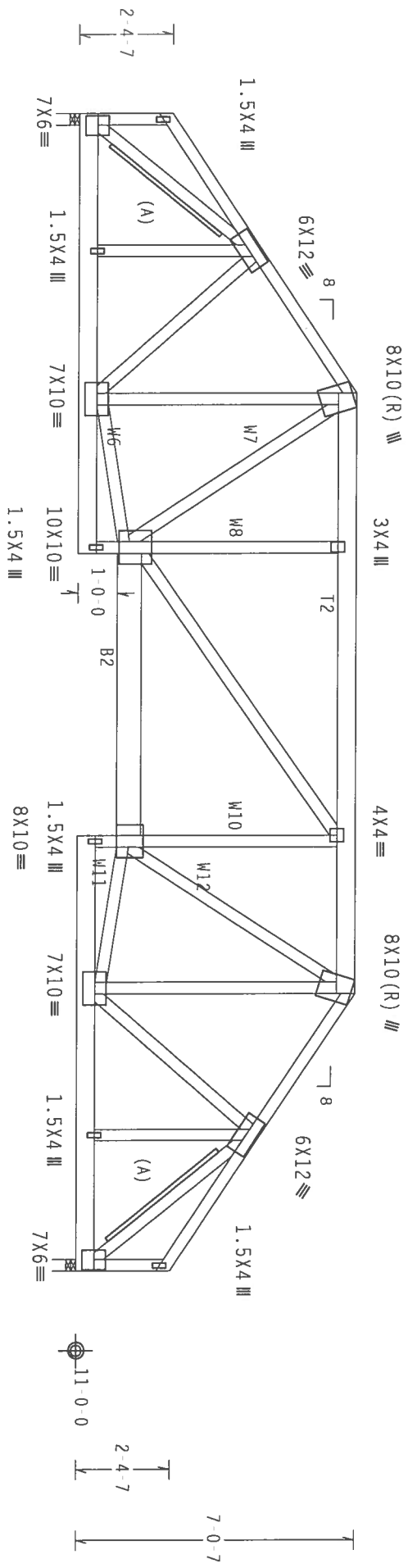
Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:  
Bot chord 2x6 SP #2 :B2 2x8 SP #1 Dense:  
Webs 2x4 SP #3

:W6, W7, W8, W10, W11, W12 2x4 SP #2 Dense:

SPECIAL LOADS

TC	From	64 PLF at 0.00 to	64 PLF at 7.00
TC	From	64 PLF at 7.00 to	64 PLF at 29.08
BC	From	20 PLF at 0.00 to	20 PLF at 29.08
TC	From	381 LB Conc. Load at 7.06,	22.02
TC	From	204 LB Conc. Load at 9.06,	20.02
TC	From	109 LB Conc. Load at 11.06,	18.02
BC	From	447 LB Conc. Load at 7.00,	22.08
BC	From	79 LB Conc. Load at 9.06,	20.02
BC	From	43 LB Conc. Load at 11.06,	18.02
BC	From	47 LB Conc. Load at 12.17,	16.92

110 mph wind, 15.70 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.  
End verticals not exposed to wind pressure.  
(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.  
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.



7-0-0 11-0-0 15-1-0 7-1-0 11-0-0 7-0-0  
29-1-0 Over 2 Supports  
R=2438 U=552 W=3.5"

PLT TYP. Wave

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

7.25.0 RTHUR R. FISHER  
FL/-/4/-/R/-

Scale = .25"/ft.

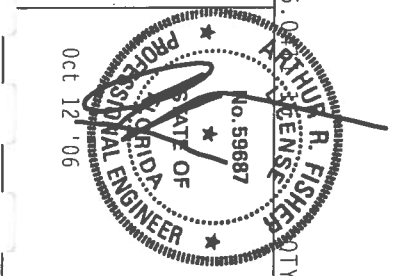
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 503 D-000000 DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 CONDITIONS WITH APPLICABLE PROVISIONS OF 2005 NATIONAL DESIGN SPEC. BY AIA/P&A AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND WEBS (W6, W7, W8, W10, W11, W12) SHALL BE PER ANNEAL 33 OF TPI 2002, SECTION 1004.2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEAL 33 OF TPI 2002, SECTION 1004.2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

Certificate # 111E487-201



TC LL	20.0 PSF	REF	R487 - 18796
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285067
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	84168 REV
DUR. FAC.	1.25		
SPACING	SEE ABOVE	JREF-	111E487_201



## SPECIAL LOADS

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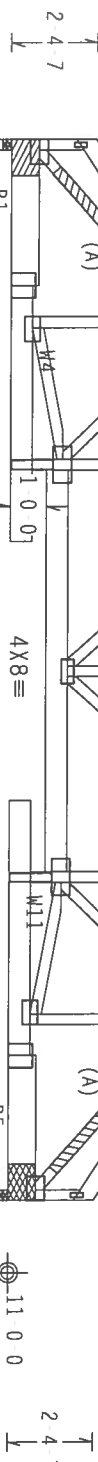
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Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails

Wind reactions based on MFRS pressures.

(A) (2) SP #3 or better scab braces. Same size & 80% length of web

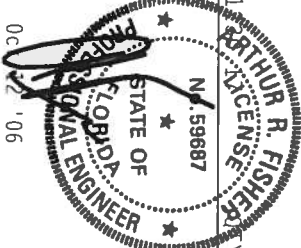


Scale = .1875"/Ft.

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

Alpine Engineered Products, Inc

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



TC LL	20.0 PSF	REF	R487 - 18797
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HGUSR487 06285074
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	131597
DUR.FAC.	1.25		
SPACING	See above	JREF	1T1E487_Z01

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Bot chord 2x6 SP #2 :B2 2x8 SP #1 Dense:  
Webs 2x4 SP #3

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

See DWGS A11015EE0405 & GBULLETIN0405 for more requirements.

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.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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


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

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

Scale = .25"/Ft.

Alpine Engineered Products, Inc.

1920 Manley Drive  
Haines City, FL 33844  
FI Certificate of Authorization # 567

TC LL	20.0 PSF	REF	R487 - - 18798
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285075
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	130954
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1TLE487_201



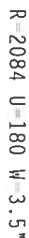
המחלקה הכלכלית (המחלקה הכלכלית)

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

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.15" due to live load and 0.28" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 7-8-0 to 19-8-0.



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

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

7.24.1

TY:1

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

Scale = .1875"/Ft.

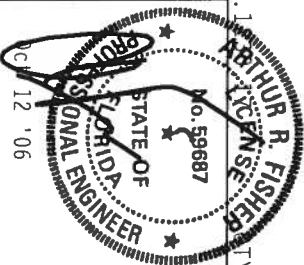
\*WARNING\*—BASSES REQUIRE EXPERT CARE IN FABRICATION, INSTALLING, SHIPPING, HANDLING, STORING, AND BRACING. REFER TO SPEC 1 TO (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE CRUSS HALL INSTITUTE, 503 D'ONORIO DR., SUITE 200, MADISON, WI 53719, AND VICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE BLVD, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

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

ALPINE

**Alpine Engineered Products, Inc.**

FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 18800
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285078
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN -	131009
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	11E487_Z01



Top chord 2x4 SP #2 Dense :11 2x6 SP #2:  
:12 2x8 SP #1 Dense:  
Bot chord 2x6 SP #2 :B2 2x8 SP SS:  
:B3 2x4 SP #2 Dense: :B4 2x8 SP #1 Dense:  
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:  
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'  
Calculated horizontal deflection is 0.31" due to live load and  
0.45" due to dead load.

Collar-tie braced with continuous lateral bracing at 24" OC. or  
rigid ceiling.

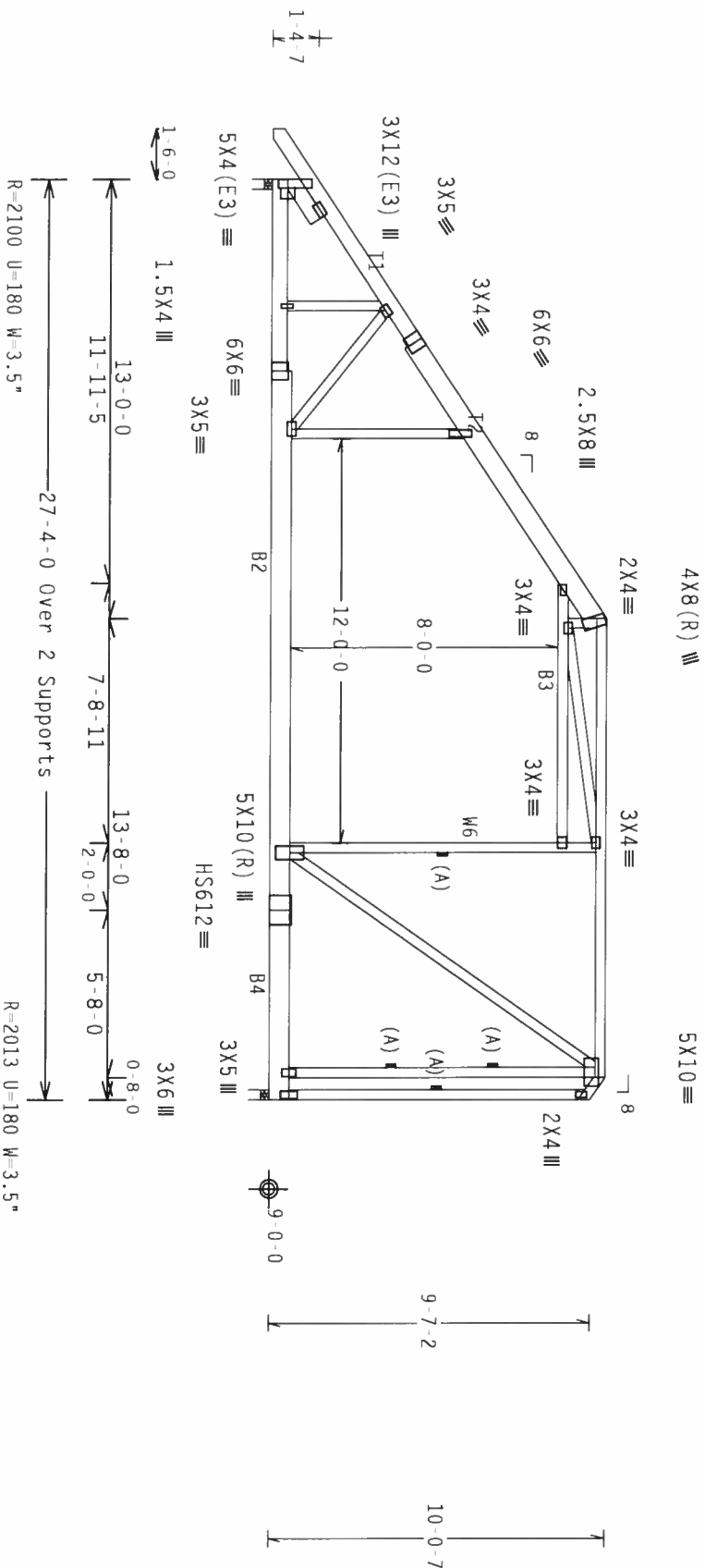
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.  
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from  
7-8-0 to 19-8-0.

Calculated vertical deflection is 0.46" due to live load and  
0.66" due to dead load at X = 7-4-8.



PLT TYP. 20 Gauge HS,Wave

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

QUANTITY: 1 FL/-/4/-/-/R/-

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRED EXTERIOR CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE) D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND NICK (WOOD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

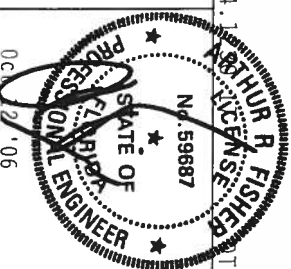
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY NDS) AND TPI. ALPINE CORP. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A Z. ANY INSPECTION OF TRUSSES FOR AND BY ALL PERSONS SHALL BE THE RESPONSIBILITY OF THE INSPECTOR. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

CA Certificate # 44444444444444444444 # 527



TC LL	20.0 PSF	REF R487 - 18802
TC DL	10.0 PSF	DATE 10/12/06
BC DL	10.0 PSF	DRW HCUR487 06285092
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 130995
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 111E487 201



```

BOL CHORD 2x8 SP #2 :BZ 2x8 SP SS:
:B3 2x8 SP #1 Dense:

```

Calculated horizontal deflection is 0.18" due to live load and 0.26" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 7-8-0 to 19-8-0.

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.

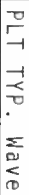
Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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

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

7.24.3

EXCISE SHEET

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

Scale = .25"/Ft.

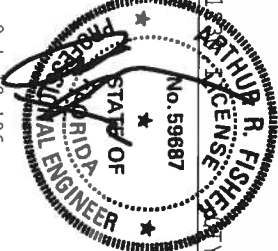
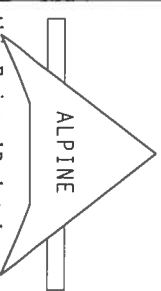
**WARNING:** THIS IS A HIGHLY CORROSIVE CHEMICAL. CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRINKING. REFER TO MSDS 1.03 (BUILDING EXPERTISE CARE IN FABRICATION), PUBLISHED BY THE AMERICAN PLASTERING INSTITUTE, 365 O'DONNELL RD., SUITE 200, HADISON, NJ 07619, AND APCA (AMERICAN PLASTERING COUNCIL), 400 WEST 10TH STREET, SUITE 100, DALLAS, TX 75201, FOR SAFETY PRACTICES PRIOR TO REFORMING THESE FUNCTIONS. MIXTURES OF THIS MATERIAL TO TOP COURED SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM COURED SHALL HAVE A PROPERLY ATTACHED LIGAL 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, A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AWS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTIONS, INC. AND

Alpine Engineered Products, Inc.

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



TC LL	20.0 PSF	REF	R487 - - 18803
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285091
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	131028
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T1E487_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.

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.



7.24.13 FL/4/-/R/-

Scale = .25"/Ft.

Certificate of Authorization # 567

No. 59687  
STATE OF  
NEW YORK

TC LL	20.0 PSF	REF	R487 - 18804
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285090

REF	R487	18804
DATE	10/12/06	
DRW	HCUSR487	062850900

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.

(B) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

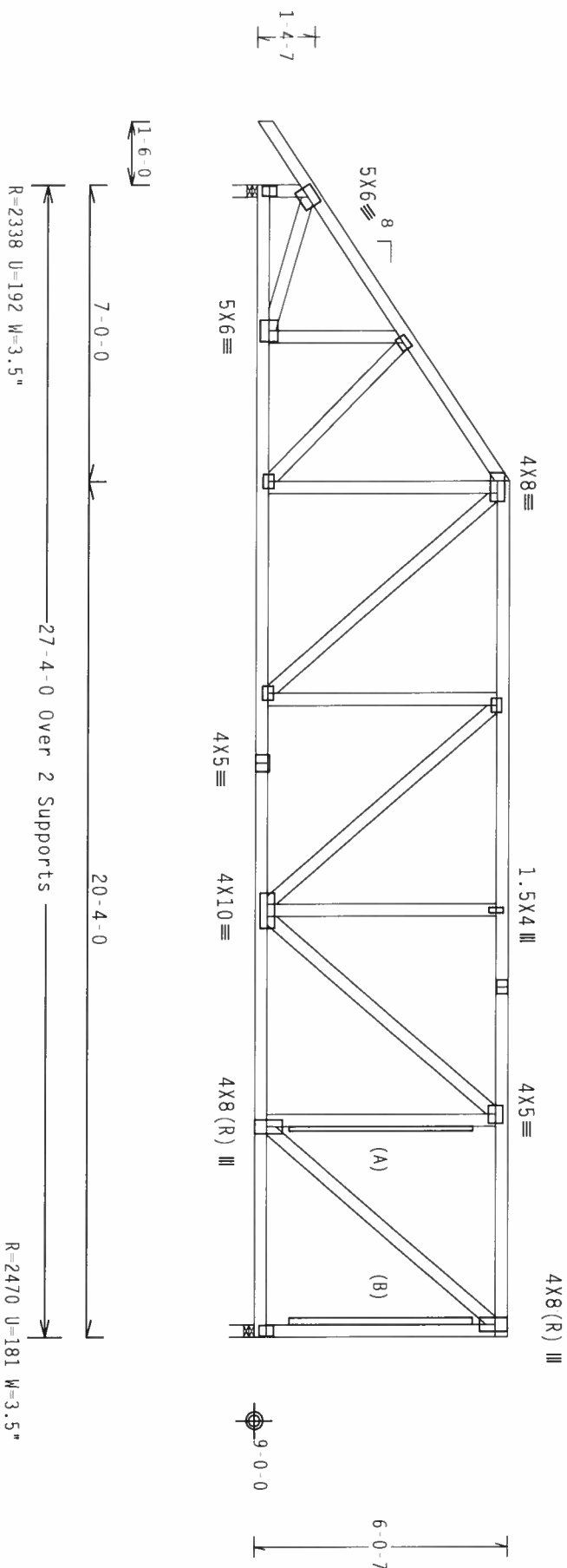
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

Right end vertical not exposed to wind pressure.

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

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

Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-6-0 overhang. Right jacks have 7-0-0 setback with 0-0-0 cant and 1-6-0 overhang. End side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

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

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

7.25.0

QTY:1

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

Scale = .25"/Ft.

\*WARNING\*—FIRMS REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRAGING REFER TO BC51-13 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TIMBER PLASTIC INSTITUTE), 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD PRESERVATION COUNCIL OF AMERICA), 6200 ENTERPRISE LN., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO REENTERING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

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

TRUSS IN CONFORMANCE WITH IPI;  
DESIGN CONFORMS WITH APPLICABLE

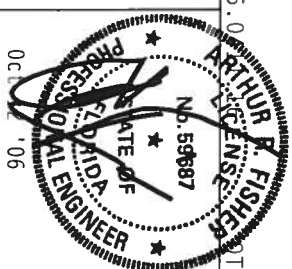
OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING  
PROVISIONS OF THE NATIONAL DEFENSE MOBILIZATION ACT.

## OF TRUSSES

Alpine Engineered Products, Inc.

Haines City, FL 33844

**El Certificate of Authorization # 567**



TC LL	20.0 PSF	REF	R487 - 18805
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCSUR487 06285089
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN -	84182 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF -	1TIE487_Z01

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

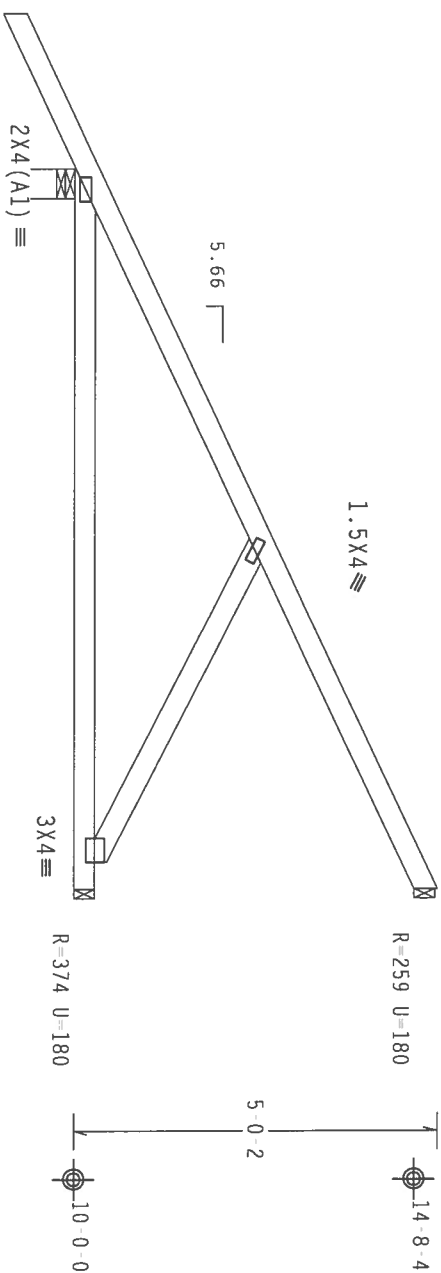
Hipjack supports 7-0-0 setback jacks with no webs.

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.

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

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



2-1-7

9-10-13 Over 3 Supports —————  
R=472 U=180 W=4.95"

PLT TYP. Wave

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

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

7.24.120617  
SHENSHI  
PROPERTY:1

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

Scale = .375"/Ft.

**WARNING:** THESE ITEMS REQUIRE EXPERT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND REPAIRING. REFER TO BCS-1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPT (THUSS STATE INSTITUTE, 503 D'ORLEANS BL., SUITE 200, MADISON, WI 53719) AND VICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE, IN. MADISON, WI 53719) FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

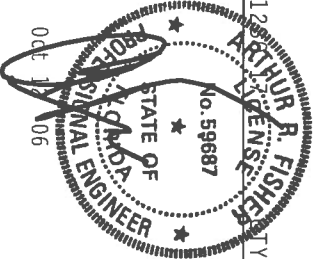
**\*\* IMPORTANT \*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR**

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

**El Certificate of Authorization # 567**



TC LL	20.0 PSF	REF	R487 - 18806
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285064
BC LL	0.0 PSF	HC ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN	130880
DUR. FAC.	1.25		
SPACING	SEE ABOVE	JREF	1T1E487_201

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

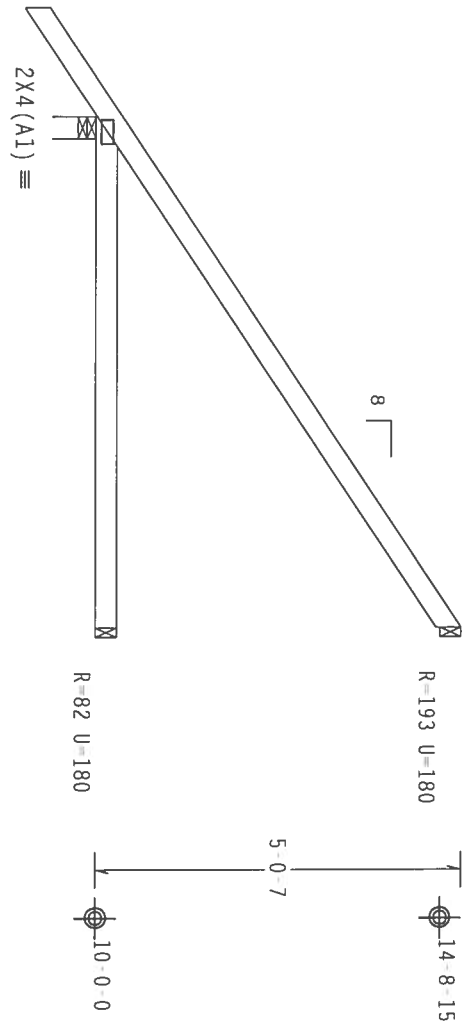
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf.

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

Trusses or components connecting to this girder have been modified by  
the truss designer. The loading for this girder requires verification  
for accuracy.

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

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



≤ 1-6-0

7-0-0 Over 3 Supports  
R=417 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

1

FL/-/4/-/R/-

Scale =.375"/Ft.

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

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



FL/-/4/-/R/-

Scale =.375"/Ft.

TC LL	20.0 PSF	REF R487-18807
TC DL	10.0 PSF	DATE 10/12/06
BC DL	10.0 PSF	DRW HCUSR487 06285066
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN-130751
DUR.FAC.	1.25	
SPACING	24.0"	JREF-1T1E487_201

ALPINE

Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
FL Certificate of Authorization # 5479

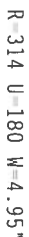
אחרי כנעניו וס שמו וויסנע (כמיטנאויסן א פאמיליע) ווערן געוואלט ווערן געוואלט ווערן געוואלט

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

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

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

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



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

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

7.24.13

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

Scale = .5" / Ft.

ARTHUR R. FISHER  
LICENSE  
No. 59687  
STATE OF

ALPINE ENGINEERED

## FAILURE TO BUILD THE TRACING OF TRUSSES.

Oct 12 '06

TC LL	20.0 PSF	REF	R487 - 18808
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285084
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	130767
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF	1T1E487_Z01

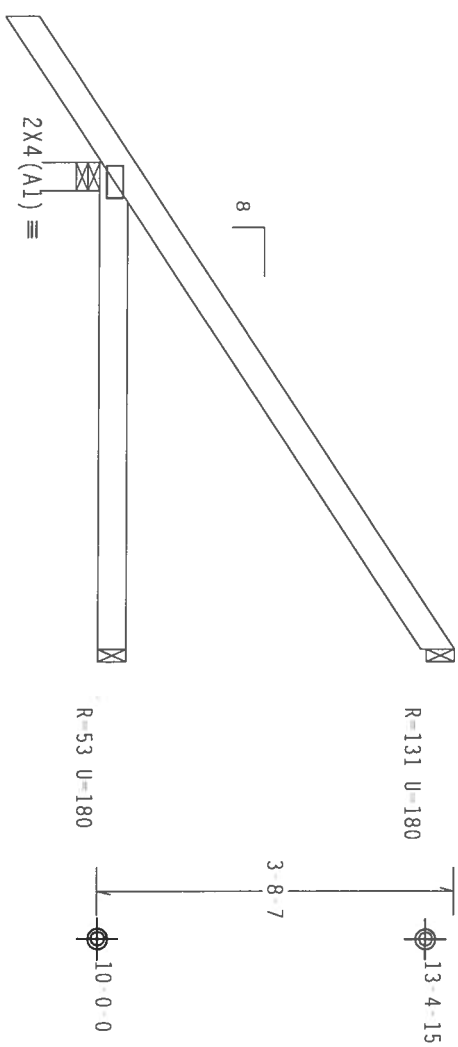


Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



←1-6-0→

←5-0-0 Over 3 Supports →  
R=339 U=180 W 3.5"

PLT TYP. Wave

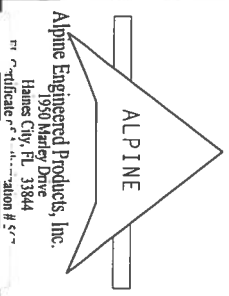
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

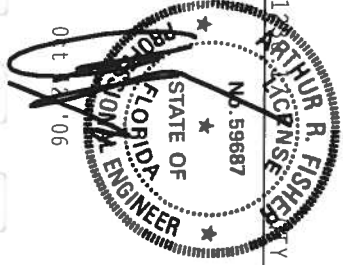
Scale = 5"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTERIOR GABLE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 10000 DORADO DR., SUITE 200, MADISON, WI 53719, AND WICKI (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE ENGINEERED PRODUCTS ARE MADE OF 20/18/16GA (W/15/3X) ASTM A653 GRADE 40/60 (K/4.5) GALV. STEEL. APPLY PROTECTIVE COATINGS TO ALL EXPOSED SURFACES. LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A Z. ANY INSPECTION OF PLATES FOLLOWED BY THE TRUSS DESIGNER SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone: 888-244-2444  
Fax: 888-244-2444  
E-mail: sales@alpineeng.com  
Website: www.alpineeng.com



TC LL	20.0 PSF	REF	R487--	18809
TC DL	10.0 PSF	DATE	10/12/06	
BC DL	10.0 PSF	DRW	HCSR487	06285106
BC LL	0.0 PSF	HC-ENG	TCE/AF	*
TOT. LD.	40.0 PSF	SEQN	130764	
DUR. FAC.	1.25			
SPACING	24.0"	JREF	11E487	201

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

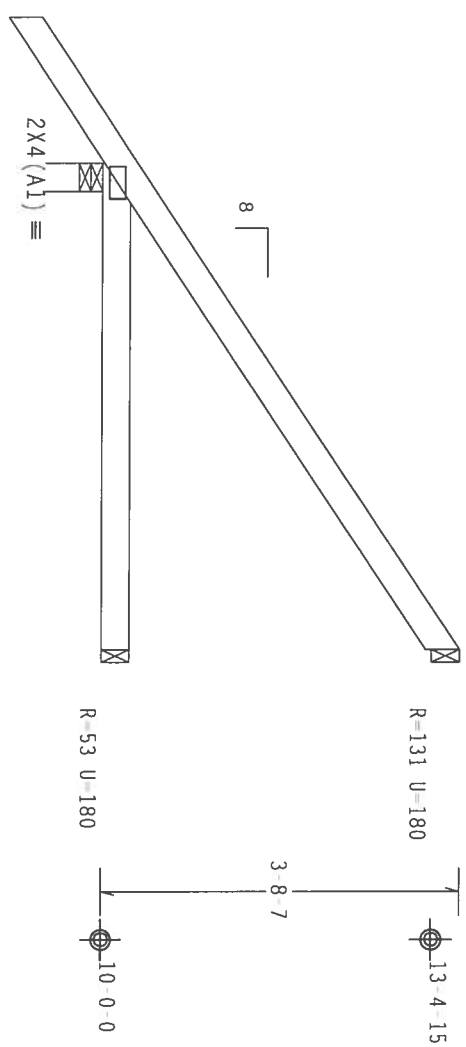
Wind reactions based on MMFRS pressures.

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

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

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

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



1-6-0

5-0-0 Over 3 Supports  
R-339 U-180 W-3.5"

PLT TYP. Wave

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

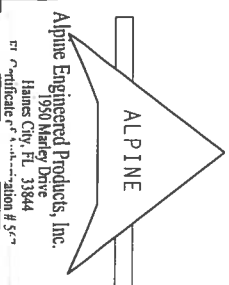
7.24

FL/-/4/-/R/-

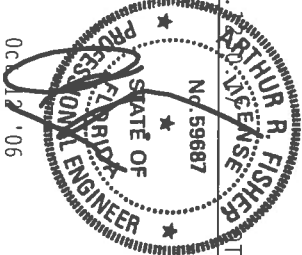
Scale =.5"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 DOWNTOWN DR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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, OR ANY OTHER WORKS WITH APPLICABLE PROVISIONS OF 2003 NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI. ALPINE ENGINEERED PRODUCTS, INC. (AIA/AIA) 1000 W. 10TH AVE., SUITE 200, DENVER, CO 80202. (303) 733-1111. FAX: (303) 733-1112. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF TRUSS CONSTRUCTION (AIA) DESIGN SHOW. 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 of Registration # 372



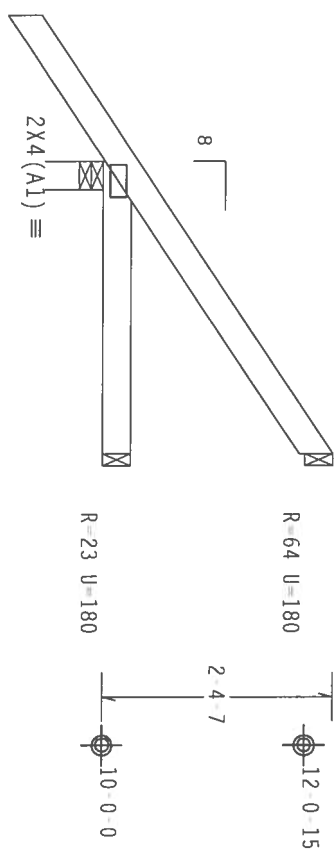
TC LL	20.0 PSF	REF	R487-18810
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCSR487 06285065
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEON-	130770
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	111E487-201

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

Wind reactions based on MFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



← 1 - 6 - 0 →

3 - 0 - 0 Over 3 Supports  
R=268 U=180 W=3.5"

PLT TYP. Wave

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

7.24

TY:1

FL/-/4/-/R/-

Scale = .5"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTERIOR CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'HORIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO CONFORMANCE WITH TPI AND WCA REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE INSTALLER. ALPINE ENGINEERED PRODUCTS, INC. PROVIDES NO WARRANTY OF ANY KIND, INCLUDING DESIGN SPEC, BY ALPINE AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DESIGN. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

PI Certificate of Authorization # 947



Oct 2 '06

TC LL	20.0 PSF	REF	R487 - 18811
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285093
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	130762
DUR.FAC.	1.25		
SPACING	24.0"	JREF	111E487_Z01

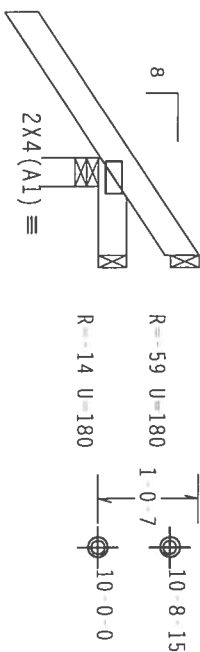
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MFRRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-6-0-0  
1-0-0 Over 3 Supports  
R=261 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

TY:1

FL/-/4/-/R/-

Scale = .5"/Ft.

\*\*WARNING\*\* TRUSSES RIGIDLY EXTERIOR GABLE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WEA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

ALPINE ENGINEERED PRODUCTS, INC.

ALPINE

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

Professional Engineer License No. 59687  
Professional Engineer License No. 59687



TY:1

FL/-/4/-/R/-

Scale = .5"/Ft.

REF

R487-18812

DATE

10/12/06

DRW

HCUSR487 06285099

HC-ENG TCE/AF

SEQN-

130757

DUR.FAC.

1.25

SPACING

24.0"

JREF-111E487\_201

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

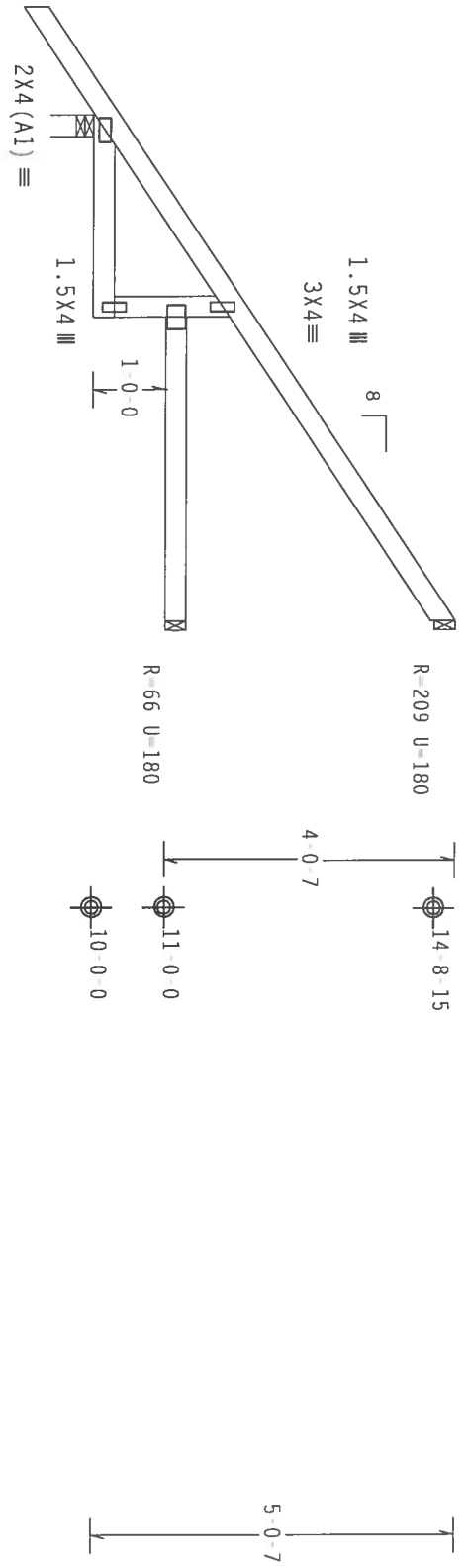
Calculated horizontal deflection is 0.12" due to live load and 0.18" due to dead load.

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

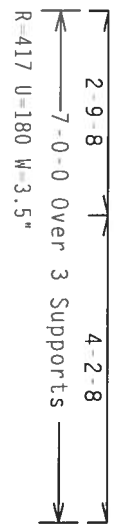
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purtins 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.



L=1-6-0



R=417 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/-

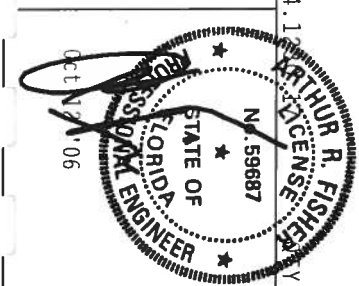
Scale = .375"/ft.

ALPINE

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1950 Marley Drive  
Haines City, FL 33844  
Certificate of Registration # 547

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31.1 ON BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'AMORE DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONTRACTS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 18813
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285112
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	130898
DUR.FAC.	1.25		
SPACING	24.0"	JREF	111E487_201





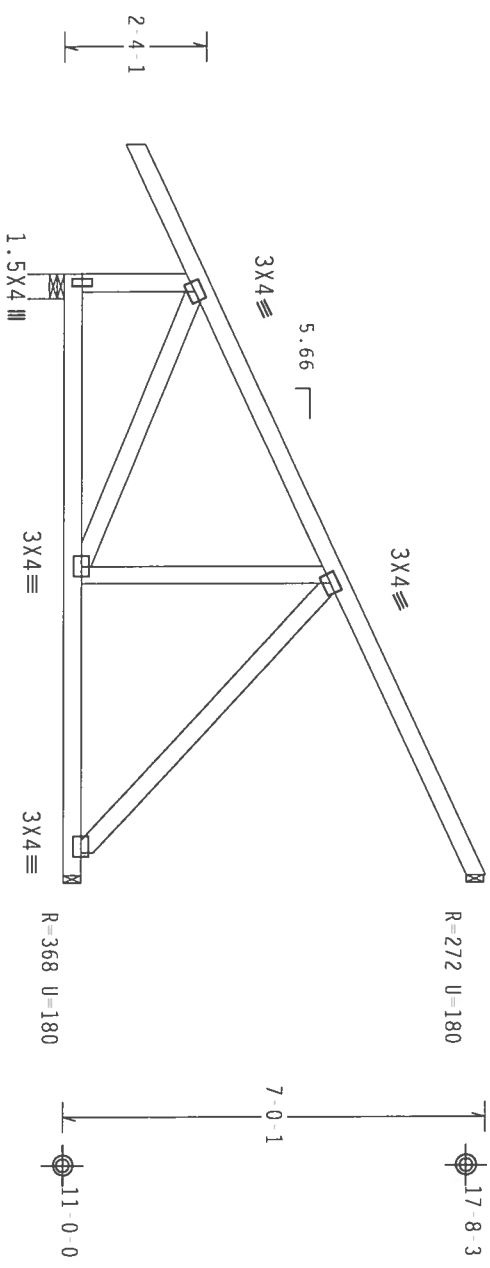




( 6-347-Will Myers Morris , \*\* HUC )  
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.  
Left 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.

110 mph wind, 15.17 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.  
Hi-jack supports 7'-0" setback jacks with no webs.  
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.

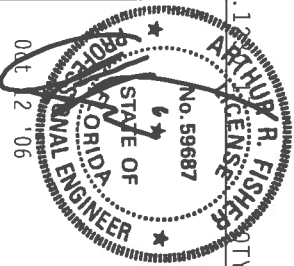
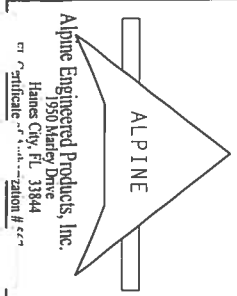


9-10-13 Over 3 Supports  
R=465 U=180 W=4.95"

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

\*\*WARNING\*\* TRUSSES REQUIRING EXTERIOR GABLE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 503 D. GORRARD DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD CHORD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AREA) AND TPI: ALPINE ENGINEERED PRODUCTS, INC. (ALPINE) SHALL 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. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3 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.



FL/-/4/-/1-R/-	Scale = .3125"/Ft.
TC LL 20.0 PSF	REF R487- 18817
TC DL 10.0 PSF	DATE 10/12/06
BC DL 10.0 PSF	DRW HCUR487 06285083
BC LL 0.0 PSF	HC-ENG TCE/AF
TOT.LD. 40.0 PSF	SEQN- 130815
DUR.FAC. 1.25	
SPACING SEE ABOVE	JREF- 1T1E487_201

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

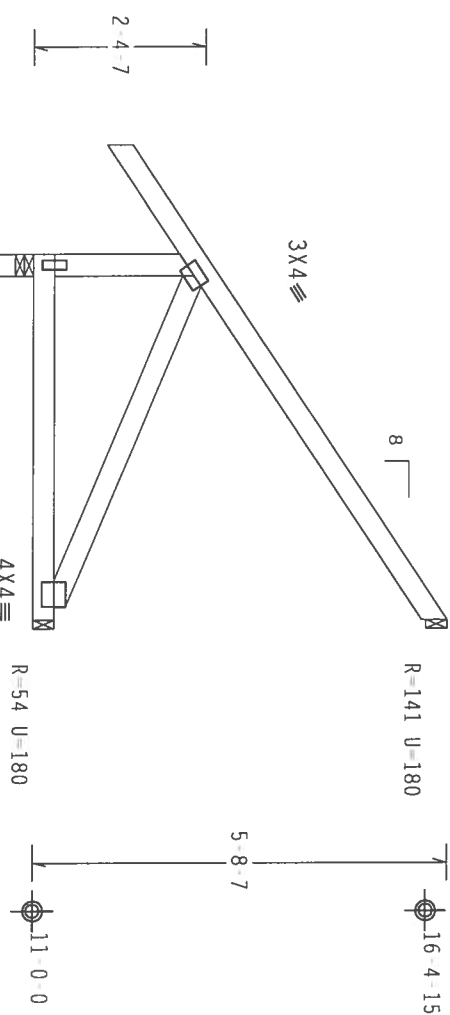
Wind reactions based on MWFRS pressures.

Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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.

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.



L=1'-6" 0

5'-0" 0 Over 3 Supports  
R=329 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/-

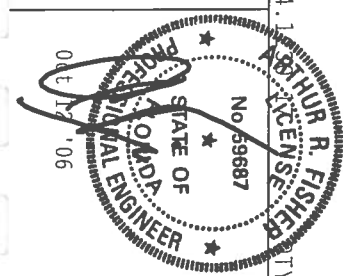
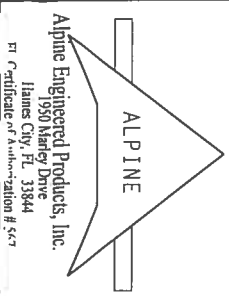
Scale = .375"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BC31.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503  
D. O'NEAL DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN,  
MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

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

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 CONTRACTS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI. ALPINE  
ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. ALPINE ENGINEERED PRODUCTS, INC.  
APPLY TO EACH FACT OF TRUSS AND UNLESS OTHERWISE INDICATED, THE DESIGN SHALL BE PERFORMED PER AOS SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT  
DESIGN SHOWN. THE STABILITY 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	R487-18818
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285085
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	130789
DUR.FAC.	1.25		
SPACING	24.0"	JREF	111E487_201



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

Wind reactions based on MMFRS pressures.

Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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

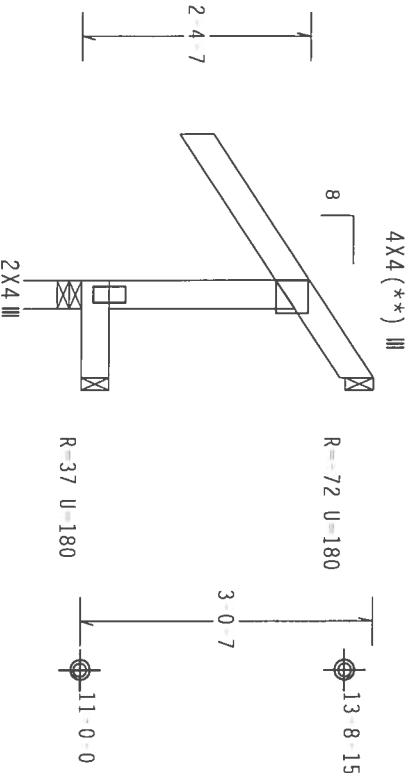
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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

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

Calculated horizontal deflection is 0.22" due to live load and 0.08"  
due to dead load.

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



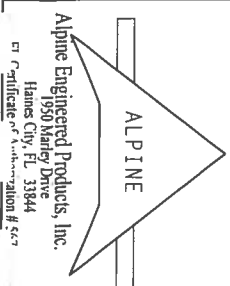
1'-6 0 0 Over 3 Supports  
R=223 U=180 W=3.5"

PLT TYP. Wave

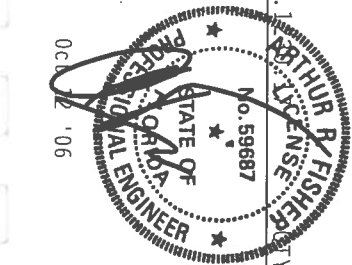
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

**\*\*WARNING\*\*** INUSS'S REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
REFER TO BC&I 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583  
D'ORFORD DR., SUITE 200, 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  
DESIGN 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&A) AND TPI. ALPINE  
ENGINEERED PRODUCTS, INC. (AIA/P&A) 55TH AVE. S.W. GRADE 40/60 (K/24/5) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS CHORDS (TOP & BOTTOM) WITH THIS DESIGN. POSITION PER DRAWINGS 160A Z.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY AN INDEPENDENT ENGINEER. (2) SHALL BE  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE INUSS COMPANY  
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 Mailey Drive  
Haines City, FL 33844  
Certificate of Approval # 547



FL / - / 4 / - / - / R / -		Scale = .5" / Ft.	
TC LL	20.0 PSF	REF	R487 - 18820
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285107
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	130775
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	111E487_201



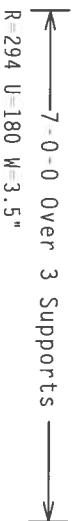
(6-347-Will Myers Morris \*\*, EDD1)

Wind reactions based on MwFRS pressures.

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.



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

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

7.24.13

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

Scale = .375"/Ft.

Alpine Engineered Products, Inc.

Fi Certificate of Authorization # 567

\*\*\*WARNING\*\*\* THESE BUILDING EXISTENCE CASE (IN FABRICATION, MANUFACTURING, SHIPMENT, INSTALLING AND BRACING, REFER TO BC51.03 (OBTAINING EXISTENCE SAFETY INFORMATION), PUBLISHED BY IPT (TRUSS PLATE INSTITUTE), 5803 D'ORNO RD., SUITE 200, MADISON, MI 48131) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE IN MADISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

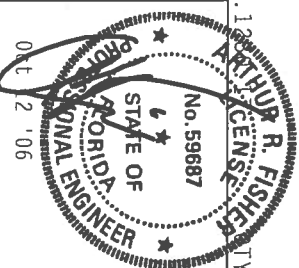
\*\*\*IMPORTANT\*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APPLYING ENGINEERED

ALPINE ENGINEERED

RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE  
PI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
TABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE

PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO OBTAIN THE NECESSARY PERMITS AND/OR APPROVALS PRIOR TO CONSTRUCTION OF THIS PROJECT IS AT THE RISK OF THE USER IN COMPLIANCE WITH TPI'S OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF THUSSES, DESIGN COMFORMS WITH APPLICABLE PROVISIONS OF NIOS (NATIONAL CODE OF SPEC. BY AREA) AND TPI. APPLICATION OF PLATES ARE MADE OF 20X18 POUNDS (6xH/5Y) AVAILABLE GROSS WEIGHT 40/60 (W, K/H, S) GALV. STEEL. PLATES TO EACH FACE OF THUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX X-7 OR TPI 2002 SEC.3.

DRAINAGE INDICATORS ACCEPTABLE OR PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS OF THE STRUCTURE. THE SUITABILITY AND USE OF THIS CONNECTION FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



TC LL	20.0 PSF	REF	R487 - 18822
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUR487 06285097
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	130841
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T1E487_Z01

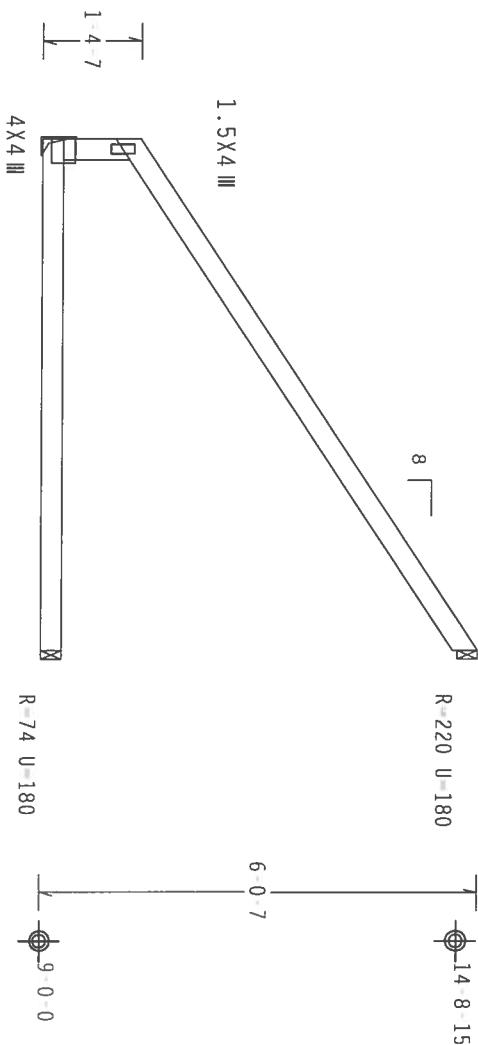
Wind reactions based on MWFRS pressures.

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

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

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

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



7-0-0 Over 3 Supports

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

PROPERTY: 1

FL/14/1/R/

Scale = .375"/Ft.

WARNING: ALL TRUCKS REQUIRE EXTENSIVE CAN FABRICATION, HANDLING, SHIPPING, INSTALLING AND MAINTENANCE. REFER TO BCS1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (IRONSHAKE INSTITUTE, 5603 D'ORLANDO RD., SUITE 200, MADISON, WI 53719) AND MECA (METAL 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 LACID CEILING.

Alpine Engineered Products, Inc.

Haines City, FL 33844  
 Fl Certificate of Authorization # 567

ARTHUR R. FISHER  
LICENSE

STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R487-- 18823
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCU8R487 06285096
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	130846
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TIE487_Z01

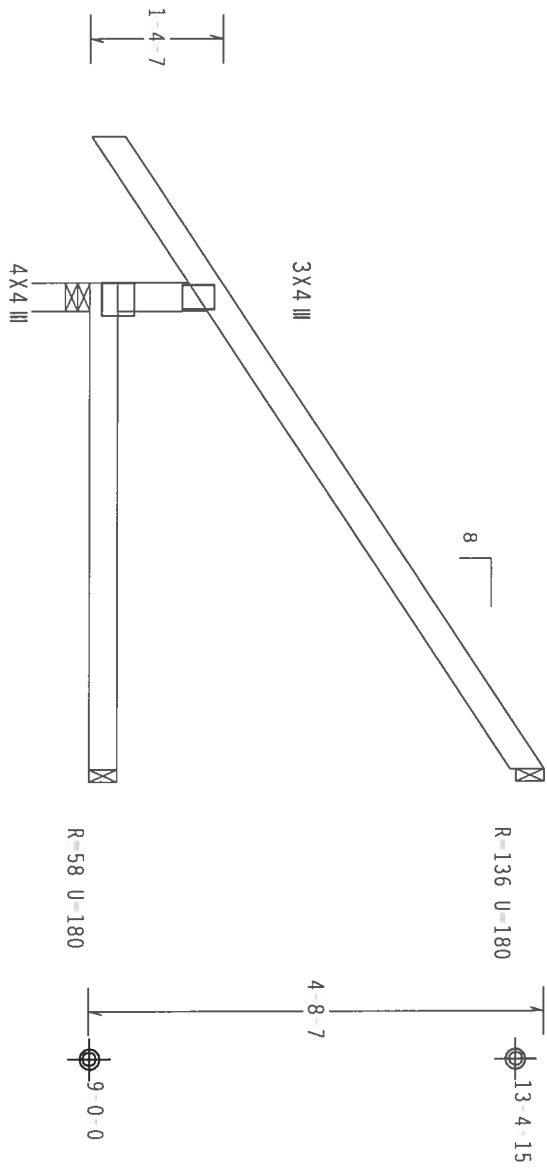
( 6 347--W11 Myers Morris . \*\* J5D )  
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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



←1-6-0→  
5-0-0 Over 3 Supports →  
R-329 U-180 W=3.5"

PLT TYP. Wave

Design Cr1t: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1 ARTHUR R. FISHER  
No. 59687  
STATE OF FLORIDA  
Professional Engineer  
Oct 12 '06

Scale = .5"/ft.

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"

REF R487-- 18824  
DATE 10/12/06  
DRW HCUSR487 06285094  
HC-ENG TCE/AF  
SEQN- 130838  
JREF- 111E487\_201

ALPINE  
Alpine Engineered Products, Inc.  
1950 Marney Drive  
Haines City, FL 33844  
Certificate of Authorization # 547



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.



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

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

7.24.

ITY:

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

Scale = .5"/Ft.

STATE OF  
No. 59687  
★

ALPINE ENGINEERED

OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

0.18/16GA (M, H/S/K) ASTM A653 GRADE 40/60 (M, K/H,S) GALV. ST

REMED BY (1) SHALL BE PER ANNEX A3 OF TPI1 2002 SEC.3.

ITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE ARCHITECT.

1. 300, 6,

ARTHUR R. FISHER  
LICENSE

ITY:

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

Scale = .5"/Ft.

STATE OF  
No. 59687  
★  
★

FLORIDA  
LINE



90.67

:

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

Scale = .5"/Ft.

TC LL	20.0 PSF
TC DL	10.0 PSF

REF	R487--	18825
DATE	10/12/06	

3C DL 10.0 PSF

DRW HCUSR487 06285077

0.0 PSF

HC-ENG TCE/AF

TOT.LD. 40.0 PSF

SEON - 130835

2010 FAS 122

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JOUR.FAL. 1.25

01-01-2017 10:00:00

SPACING 24.0"

JREF - 111E487\_201

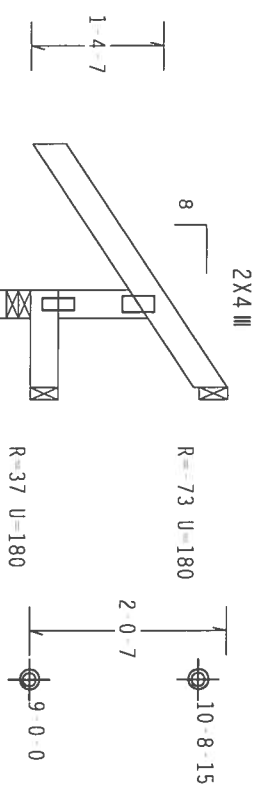
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-6-0  
1-0-0 Over 3 Supports  
R=223 U=180 W=3.5"

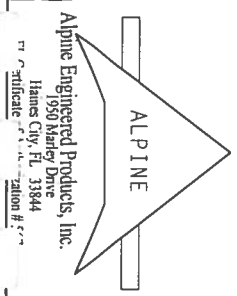
PLT TYP. Wave

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

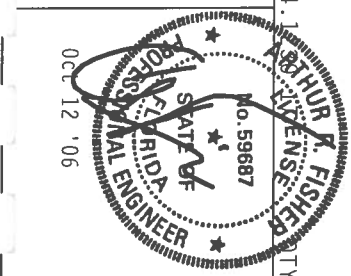
\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'AMORIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300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

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

ALPINE ENGINEERED PRODUCTS, INC. 1950 Marley Drive, Haines City, FL 33844



ANY INSPECTION OF TRUSSES SHALL BE CONDUCTED AS OF 12:00 PM, SECTION PER DRAWINGS 100A-2. ANY INSPECTION OF TRUSSES SHALL BE CONDUCTED AS OF 12:00 PM, SECTION PER DRAWINGS 100A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	18826
TC DL	10.0 PSF	DATE	10/12/06	
BC DL	10.0 PSF	DRW	HCUSR487	06285076
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	130831	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	111E487	Z01

Top chord 2x4 Sp #2 Dense  
Bot chord 2x4 Sp #2 Dense

Wind reactions based on MMFRS pressures.

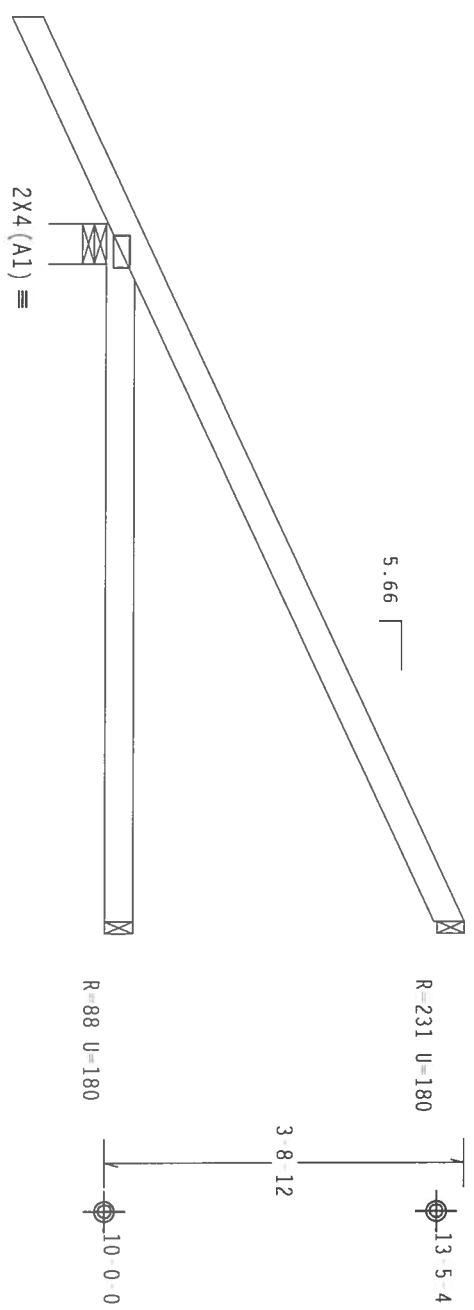
Hipjack supports 5'-1" setback jacks with no webs.

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

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

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

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



2-1-7

7-2-4 Over 3 Supports  
R-287 U=180 W 4.95"

PLT TYP. Wave

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

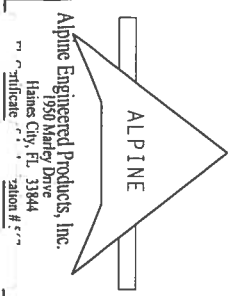
7.24

FL/-4/-/-R/-

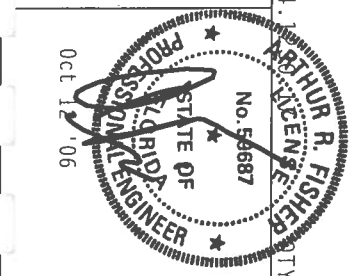
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 103 BUILDING COMPONENT SAFETY INFORMATION FOR THE LATEST EDITION OF THE BUILDING CODES. THIS TRUSS IS DESIGNED TO BE USED IN CONFORMANCE WITH THE 2001 INTERNATIONAL BUILDING CODES. THIS TRUSS IS NOT TO BE USED IN ANY OTHER MANNER. THE TRUSS DESIGNER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 2001 INTERNATIONAL DESIGN SPEC. (BY AREA) AND TPI-2002 (STD). ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T60A-Z. CONNECTIONS TO BE FOLLOWED BY (1) SHALL BE PER AREA 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.



Alpine Engineered Products, Inc.  
Haines City, FL 33844  
1950 Marley Drive  
Station # 277



TC LL	20.0 PSF	REF	R487-18827
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCSR487 06285072
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	130855
DUR. FAC.	1.25		
SPACING	SEE ABOVE	JRFF-	1TJF487_Z01

JREF- 1T1E487\_Z01

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

SPECIAL LOADS

TC - From	64 PLF at -1.50 to 64 PLF at 5.08	4X8	1.5X4 III	4X8
TC - From	32 PLF at 5.08 to 32 PLF at 12.92			
TC - From	64 PLF at 12.92 to 64 PLF at 19.50			
BC - From	5 PLF at -1.50 to 5 PLF at 0.00			
BC - From	20 PLF at 0.00 to 20 PLF at 7.00			
BC - From	10 PLF at 7.00 to 10 PLF at 12.92			
BC - From	20 PLF at 12.92 to 20 PLF at 18.00			
BC - From	5 PLF at 18.00 to 5 PLF at 19.50			
TC - From	365 LB Conc. Load at 5.08, 12.92			
TC - From	134 LB Conc. Load at 7.15, 9.00, 10.85			
BC - From	143 LB Conc. Load at 5.08, 12.92			
BC - From	1366 LB Conc. Load at 7.06			
BC - From	739 LB Conc. Load at 9.06			
BC - From	55 LB Conc. Load at 10.85			
BC - From	685 LB Conc. Load at 11.06, 13.06			
BC - From	667 LB Conc. Load at 15.06, 17.06			

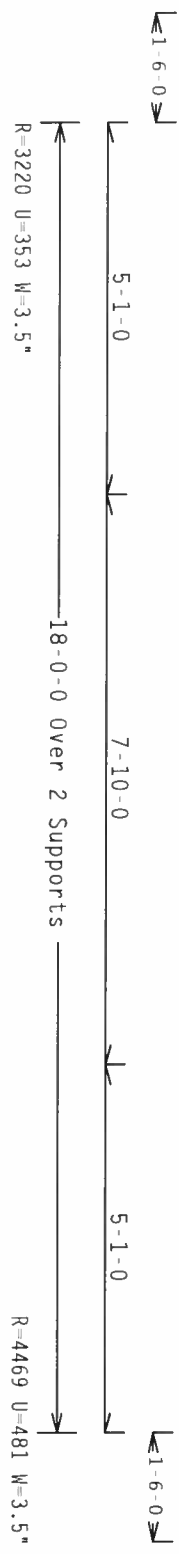
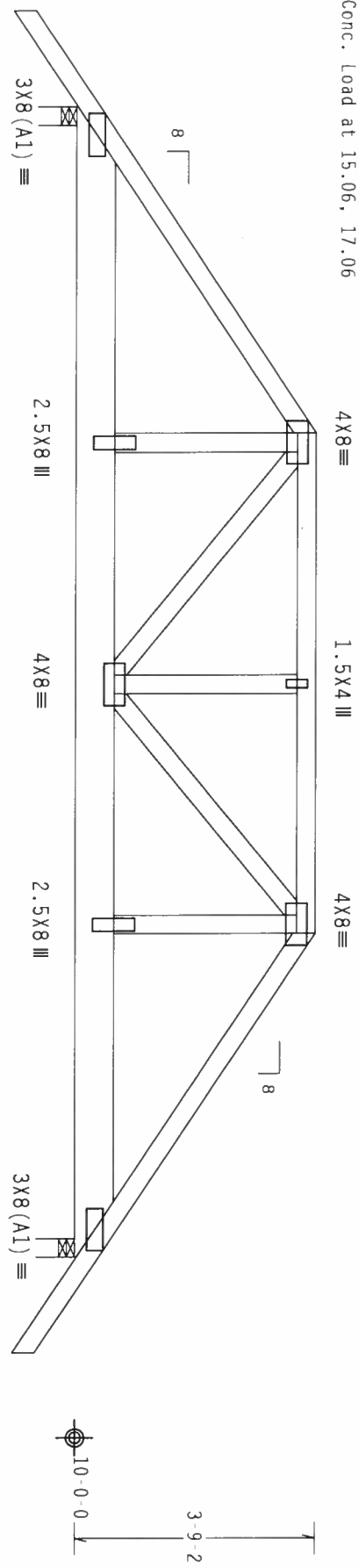
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 6.50" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

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

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

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



PLT TYP. Wave

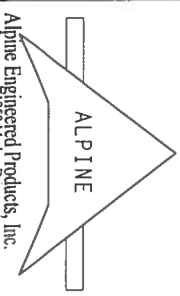
Design Crit: TPI-2002 (STD) / FBC  
Cq/RT=1.00(1.25)/10(0)

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

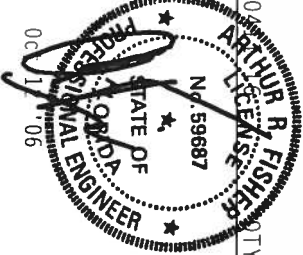
Scale = .375"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 D. O'NEAL DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 PROVISIONS OF THIS DESIGN SPEC, BY A/E/P/S AND TPI, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE TRUSS DURING TRANSPORT AND STORAGE. PROVIDE PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE TRUSS DURING STORAGE AND TRANSPORT. PROVIDE PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE TRUSS DURING STORAGE AND TRANSPORT. PROVIDE PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE TRUSS DURING STORAGE AND TRANSPORT.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Tel: 888-244-2442



TC LL	20.0 PSF	REF	R487 - 18829
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCSR487 06285068
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	84196 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF	1TIE487 201

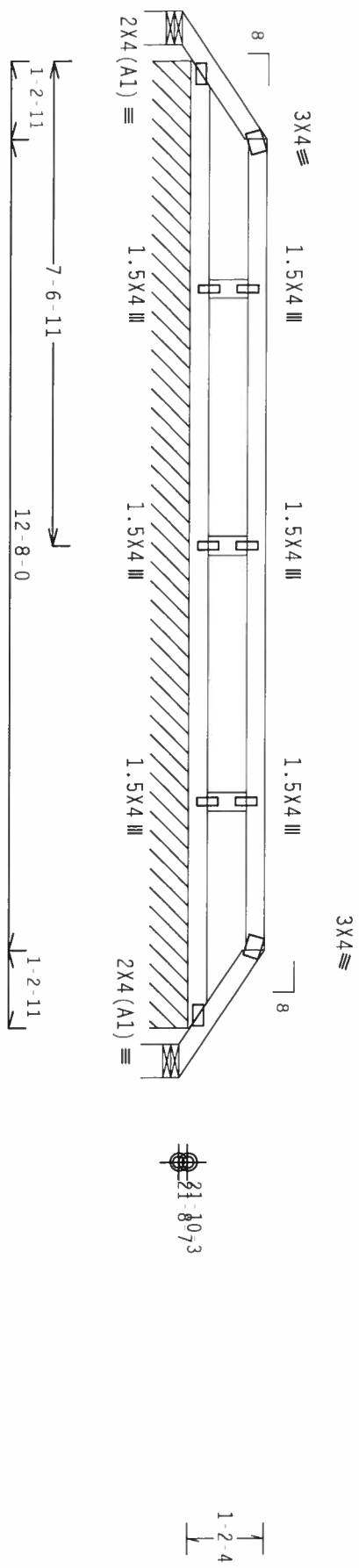
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

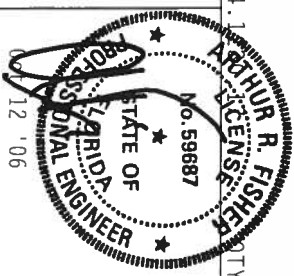
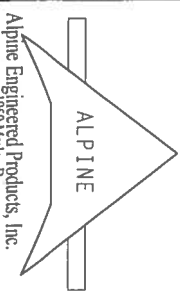


R=6 U=180 W=6.31"  
R=72 PLF U=26 PLF W=15-1-6  
R=6 U=180 W=6.31"  
R=6 U=180 W=6.31"

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 BEST PRACTICES FOR BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 500 DOWDRIE DR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE BL, 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 TO THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.



FL	/	4	/	-	/	R	/	-	Scale = .375"/ft.
TC	LL	20.0	PSF	REF	R487	-	18830		
TC	DL	10.0	PSF	DATE	10/12/06				
BC	DL	2.0	PSF	DRW	HCSR487	06285095			
BC	LL	0.0	PSF	HC-ENG	TCE/AF				
TOT.	LD.	32.0	PSF	SEQN	131281				
DUR.	FAC.	1.25							
SPACING	24.0"			UREF	11E487	201			

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

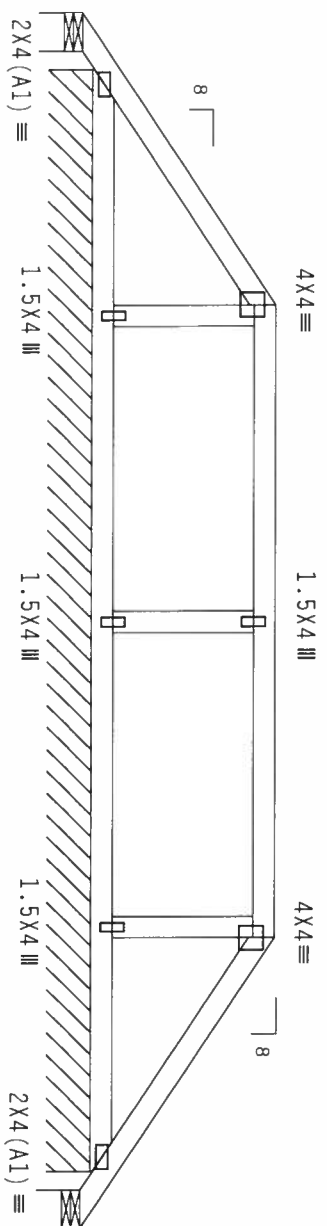
Wind reactions based on MMFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



R=16 U=180 W=6.31"  
R=75 PLF U=30 PLF W=15-1-6

PLT TYP. Wave

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

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

Scale = .375"/ft.

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

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

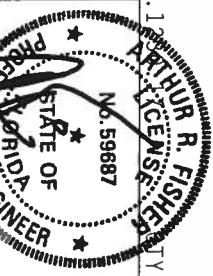
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN COMPANIES WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AIA/PSA AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION OF THE TRUSS.

ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION OF THE TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. 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.

ALPINE

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

Professional Engineer  
Certificate of Authorization # 547



Oct 12 '06

TC LL	20.0 PSF	REF	R487 - 18831
TC DL	10.0 PSF	DATE	10/12/06
BC DL	2.0 PSF	DRW	HCUSR487 06285102
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	32.0 PSF	SEQN-	131287
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	111E487 201

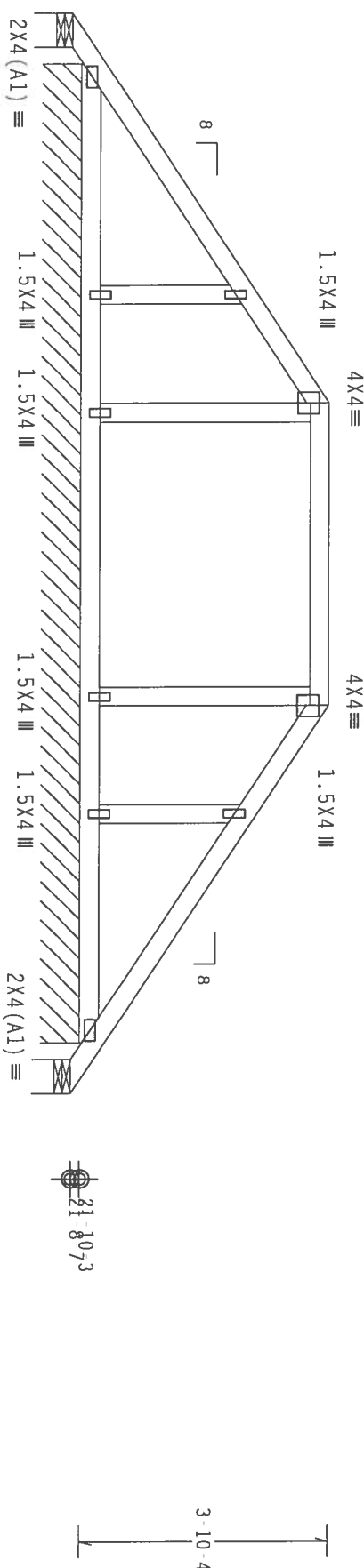
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.70 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



R=37 U=180 W=6.31"  
R=78 PLF U=32 PLF W=15-1-6

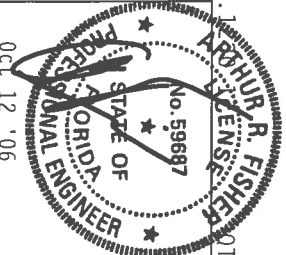
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.18 R. FISHER

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'AMORIO DR., SUITE 200, MADISON, WI 53719) AND WICKA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE ENGINEERED PRODUCTS ARE NOT RESPONSIBLE FOR THE DESIGN OR THE CONSTRUCTION OF THIS TRUSS. THE TRUSS DESIGNER'S DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS. THE BUILDING DESIGNER SHALL BE RESPONSIBLE FOR 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.  
James City, FL 33844  
Certificate of Authorization #529



TC LL	20.0 PSF	REF	R487-18832
TC DL	10.0 PSF	DATE	10/12/06
BC DL	2.0 PSF	DRW	HCUSR487 06285103
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN	131292
DUR.FAC.	1.25		
SPACING	24.0"	JREF	11E487_Z01

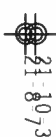


110 mph wind, 24.48 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf

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

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.



5-4-15

$$R = -18^\circ \quad U = 180^\circ \quad W = 6.31'$$

Scale = .375"/Ft.

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

TC LL	20.0 PSF	REF R487 - - 18833
TC DL	10.0 PSF	DATE 10/12/06
BC DL	2.0 PSF	DRW HCUR487 06285105
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	32.0 PSF	SEON- 131297
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TTE487_Z01

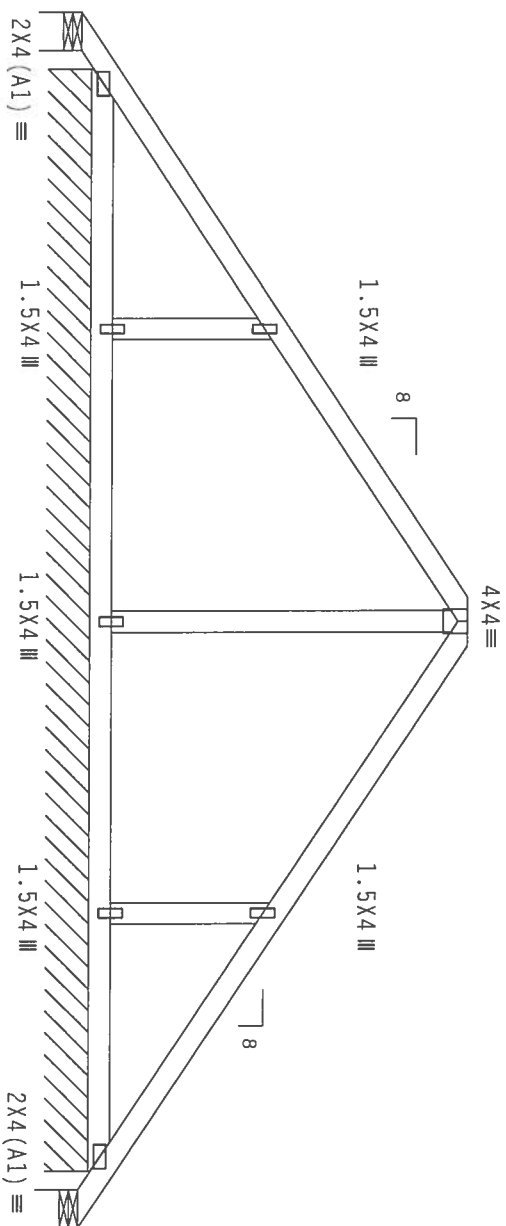
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 24.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



7'-6-11 7'-6-11 7'-6-11  
R=18 U=180 W=6.31"  
R=75 PLF U=30 PLF W=15-1 6  
R=18 U=180 W=6.31"

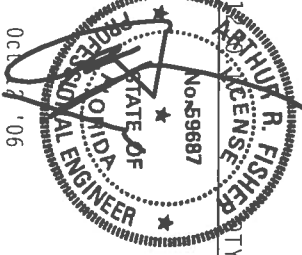
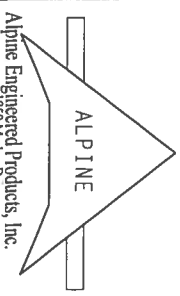
PLT TYP. Wave Design Crit: TP1-2002 (STD) /FBC Cq/RT=1.00(1.25)/10(0) 7.24

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'AMORIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD 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 TPI PROVISIONS OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION PLATES MUST BE INSTALLED TO THE TRUSS CHORDS IN ACCORDANCE WITH TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI PROVISIONS OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT 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 = .375" / Ft.	
TC LL	20.0 PSF	REF	R487 - - 18834
TC DL	10.0 PSF	DATE	10/12/06
BC DL	2.0 PSF	DRW	HCSR487 06285104
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	32.0 PSF	SEQN-	131302
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	11E487_Z01

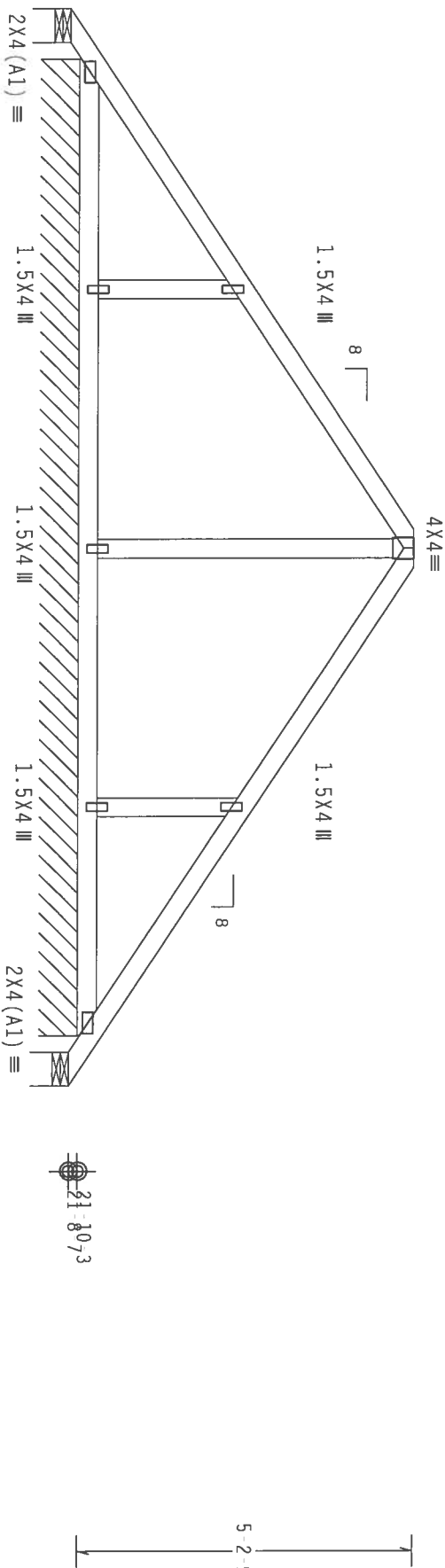
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 24.39 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



R=18 U=180 W=6.31"  
R=75 PLF U=30 PLF W=15-1-6

7-6-11 7-6-11 7-6-11

16-8-0 Over 3 Supports

R=18 U=180 W=6.31"

PLT TYP. Wave

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

7.24

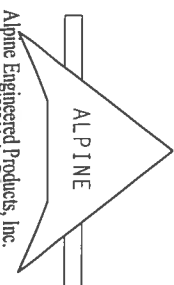
TY:1

FL/-/4/-/R/-

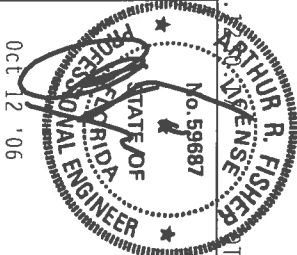
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51.1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 DODGERS BLVD., SUITE 200, MADISON, WI 53719) AND NCA (NATIONAL COUNCIL OF AMERICA, 6200 ENTERPRISE BLVD., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND JOISTS (IF/WHEN STAGGERED GAUGE, 40/80 (4" & 8" S) GALT STEEL. ALPINE ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY 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  
TPI Certificate of Authorization # 529



TC LL	20.0 PSF	REF R487-18835
TC DL	10.0 PSF	DATE 10/12/06
BC DL	2.0 PSF	DRW HCUR487 06285114
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	32.0 PSF	SEON- 131456
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TIE487_201

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

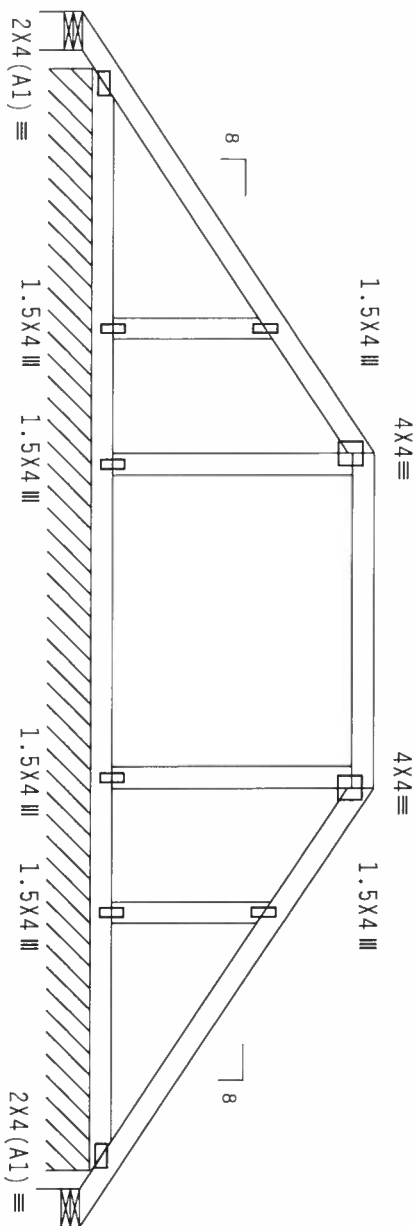
Wind reactions based on MMFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.72 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



21-80-3

3-10-9

R=37 U=180 W=6.31"  
R=78 PLF U=32 PLF W=15-1-6

PLT TYP. Wave

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

7.24.12

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

Scale = .375"/ft.

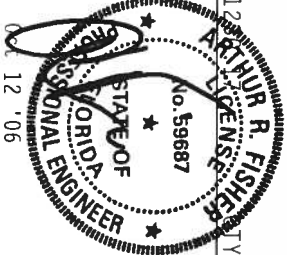
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31.103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DOWNSIDE DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.



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



TC LL	20.0 PSF	REF	R487 - 18836
TC DL	10.0 PSF	DATE	10/12/06
BC DL	2.0 PSF	DRW	HCUSR487 06285120
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	32.0 PSF	SEQN-	131461
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	111E487_201

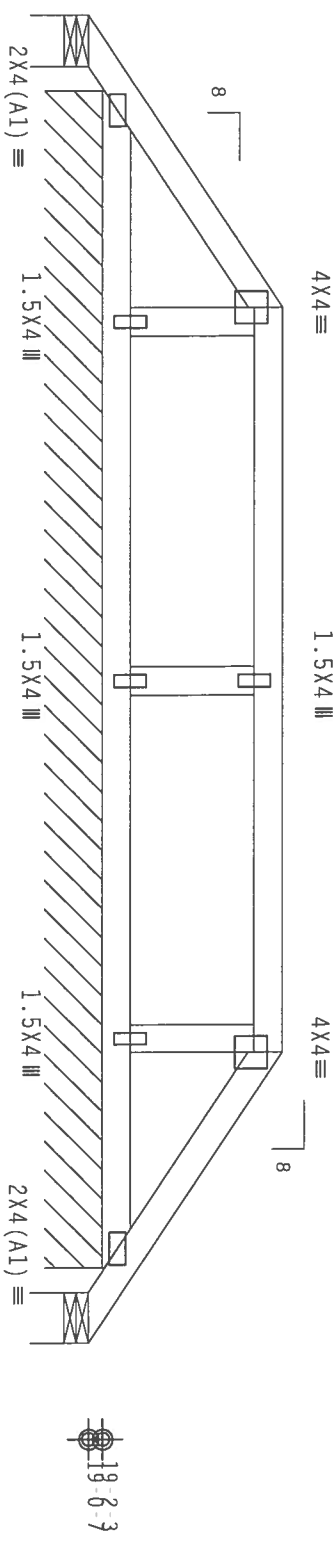
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



R=11 U=180 W=6.31"  
R=72 PLF U=24 PLF W=12-1-7  
13-8-0 Over 3 Supports  
R=11 U=180 W=6.309"

PLT TYP. Wave

Design Cr1t: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.12 R. FISHER  
No. 59687  
STATE OF CALIFORNIA  
Professional Engineer  
Oct 1 '06

Scale = .5"/ft.

ALPINE				ALPINE			
Alpine Engineered Products, Inc.				Alpine Engineered Products, Inc.			
1950 Marley Drive				1950 Marley Drive			
Haines City, FL 33844				Haines City, FL 33844			
Certificate of Registration # 667				Certificate of Registration # 667			
***WARNING*** TRUSSES REQUIRE EXTERNAL CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LB, 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, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2016/T606 (AL-9003) ALUMINUM OR 4090/40 (AL-9003) GALV. STEEL. APPLY TO ALL TRUSSES. TRUSSES SHALL BE DESIGNED FOR PERMANENT LOADS PER ASCE 7-02. ANY INSPECTION OF PLATES FOLLOWED BY TPI 2002 SEC. 3. DRAWING INDICATES ACCEPTED PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.			
TC LL	20.0 PSF	REF	R487-18837	TC LL	20.0 PSF	REF	R487-18837
TC DL	10.0 PSF	DATE	10/12/06	TC DL	10.0 PSF	DATE	10/12/06
BC DL	2.0 PSF	DRW	HCUSR487 06285100	BC DL	2.0 PSF	DRW	HCUSR487 06285100
BC LL	0.0 PSF	HC-ENG	TCE/AF	BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN	130818	TOT.LD.	32.0 PSF	SEQN	130818
DUR.FAC.	1.25			DUR.FAC.	1.25		
SPACING	24.0"	JREF	11IE487-201	SPACING	24.0"	JREF	11IE487-201



THIS WORK PREPARED FROM COMPUTER INPUT (LUAUS & DIMENSIONS) SUBMITTED BY IRUSS MFK.

Wind reactions based on MWFRS pressures.

110 mph wind, 20.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=1.2 psf.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



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

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

7.24.12

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

Scale = .5"/Ft.

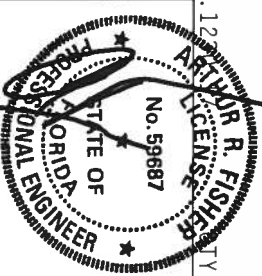
\* **WARNING:** \* **TRAFFIC:** ROUTINE EXTERIOR CARE, E.g. FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO REG-1 (OR BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRAFFIC MARKING INSTITUTE), 580 O'DONNELL DR., SUITE 200, MADISON, WI 53719, AND MICA (MODERN TRAFFIC CONSULT), 6500 ENTERPRISE, IN MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. \* **UNLESS OTHERWISE INDICATED,** FOR CHORD 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

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

Alpine Engineered Products, Inc.

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



TC LL	20.0 PSF	REF	R487 - 18839
TC DL	10.0 PSF	DATE	10/12/06
BC DL	2.0 PSF	DRW	HCUSR487 06265101
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN-	130824
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T1E487_201

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

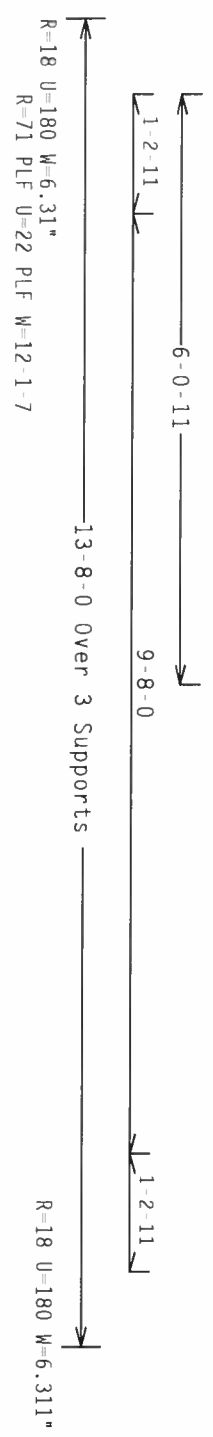
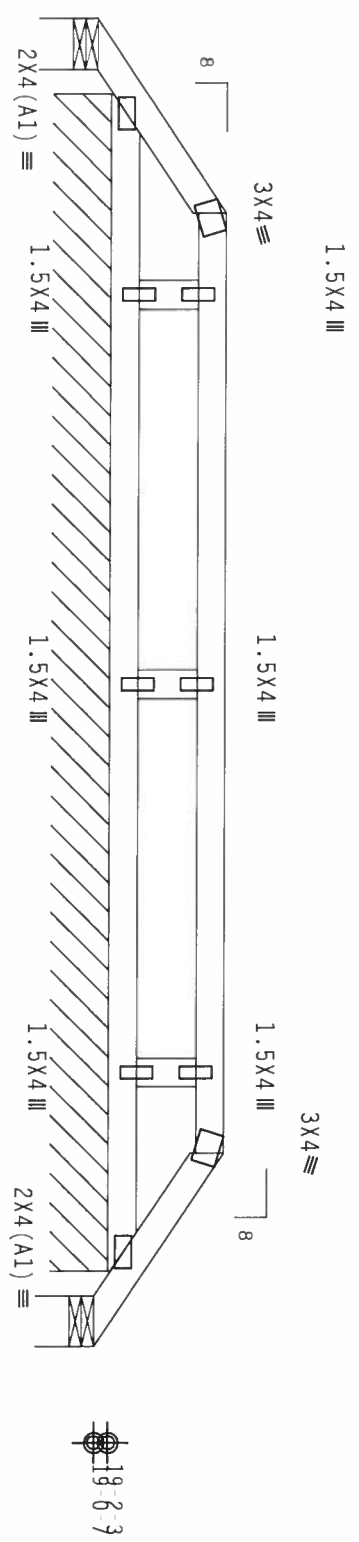
Wind reactions based on MMFRS pressures.

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

Refer to DWG PIGBACK0405 or PIGBACK0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 19.70 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1  
FL/-/4/-/-/R/-

Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Tel: 888-444-ALPINE

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 MADISON, MI 48319) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. FOR STEEL), AISC 360-10, AISC 360-16, AISC 360-22, AISC 360-23, AISC 360-24, AISC 360-25, AISC 360-26, AISC 360-27, AISC 360-28, AISC 360-29, AISC 360-30, AISC 360-31, AISC 360-32, AISC 360-33, AISC 360-34, AISC 360-35, AISC 360-36, AISC 360-37, AISC 360-38, AISC 360-39, AISC 360-40, AISC 360-41, AISC 360-42, AISC 360-43, AISC 360-44, AISC 360-45, AISC 360-46, AISC 360-47, AISC 360-48, AISC 360-49, AISC 360-50, AISC 360-51, AISC 360-52, AISC 360-53, AISC 360-54, AISC 360-55, AISC 360-56, AISC 360-57, AISC 360-58, AISC 360-59, AISC 360-60, AISC 360-61, AISC 360-62, AISC 360-63, AISC 360-64, AISC 360-65, AISC 360-66, AISC 360-67, AISC 360-68, AISC 360-69, AISC 360-70, AISC 360-71, AISC 360-72, AISC 360-73, AISC 360-74, AISC 360-75, AISC 360-76, AISC 360-77, AISC 360-78, AISC 360-79, AISC 360-80, AISC 360-81, AISC 360-82, AISC 360-83, AISC 360-84, AISC 360-85, AISC 360-86, AISC 360-87, AISC 360-88, AISC 360-89, AISC 360-90, AISC 360-91, AISC 360-92, AISC 360-93, AISC 360-94, AISC 360-95, AISC 360-96, AISC 360-97, AISC 360-98, AISC 360-99, AISC 360-100.

TC LL	20.0 PSF	REF	R487--	18840
TC DL	10.0 PSF	DATE	10/12/06	
BC DL	2.0 PSF	DRW	HCUSR487	06285087
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT. LD.	32.0 PSF	SEQN-	130828	
DUR. FAC.	1.25			
SPACING	24.0"	UREF-	1TIE487	_201



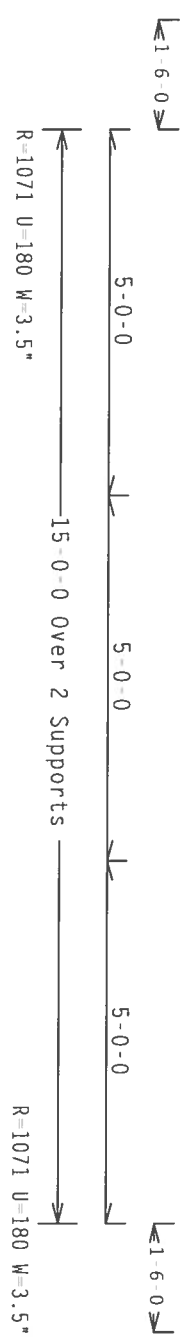
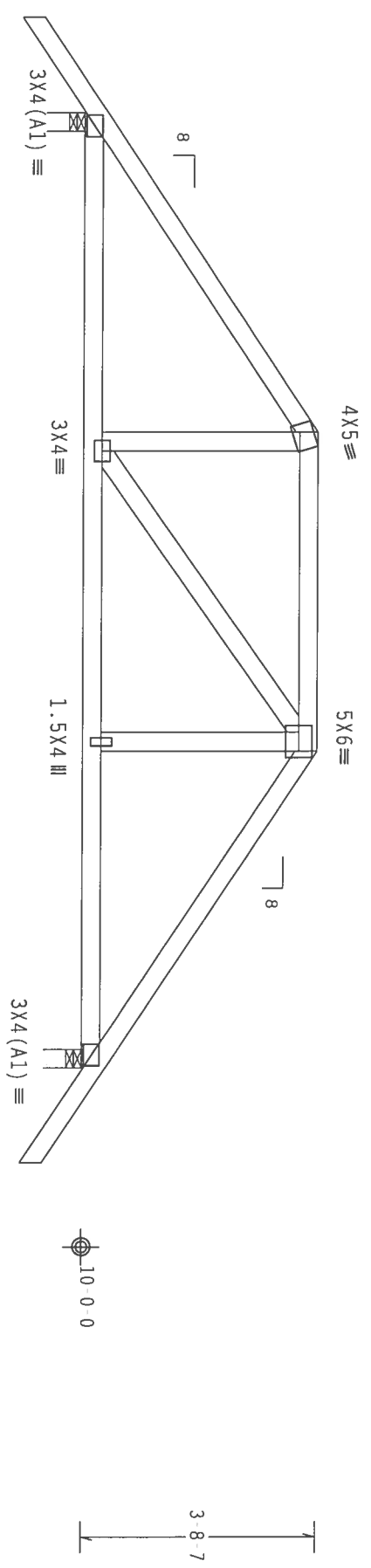
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

#1 hip supports 5-0-0 jacks with no webs.

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.122

ARTHUR R. FISHER

PROFESSIONAL ENGINEER

STATE OF FLORIDA

No. 59667

06/12/06

ALPINE

Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
FL Certificate of Authorization # 547

Scale = .375"/ft.

REF R487- 18841

DATE 10/12/06

DRW HCUSR487 06285119

HC-ENG TCE/AF

SEQN- 130801

DUR. FAC. 1.25

SPACING SEE ABOVE

JREF- 111E487\_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 64 PLF at -1.50 to 64 PLF at 16.50  
BC - From 5 PLF at -1.50 to 5 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 15.00  
BC - From 5 PLF at 15.00 to 5 PLF at 16.50  
BC - 3552 LB Conc. Load at 7.06  
BC - 1686 LB Conc. Load at 9.06, 11.06, 13.06

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.

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

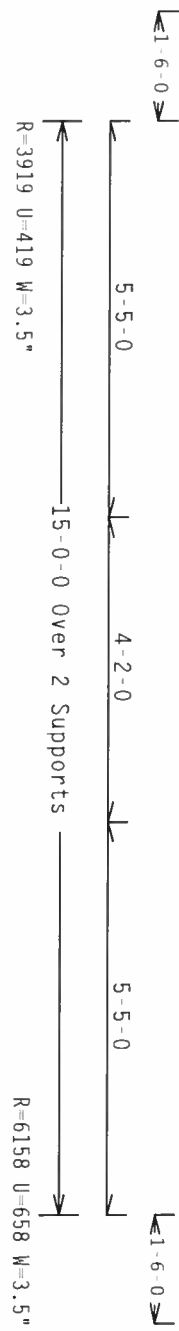
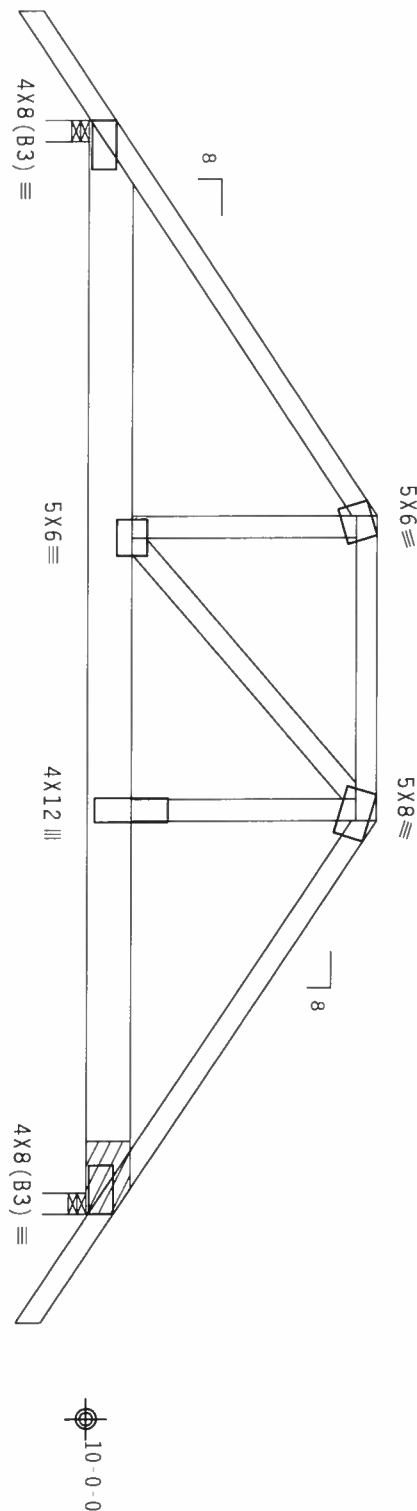
2 COMPLETE TRUSSES REQUIRED

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 14.708' 1 12" 4 Match Truss  
Bearing block to be same size and species as bottom chord.  
Refer to drawing CNBRBLK1103 for additional information.

Wind reactions based on MWFRS pressures.

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



PLT TYP. Wave

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

7.24.12

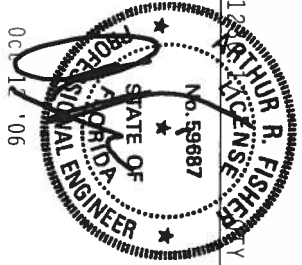
Scale = .375"/ft.

ALPINE

Alpine Engineered Products, Inc.  
1950 Marney Drive  
Haines City, FL 33844  
Certificate of Authorization # 457

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE), 583 D. OROBERTO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6200 ENTERPRISE LN., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 ACCORDANCE WITH THE MANUFACTURING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2003 EDITION, AND THE CONNECTOR PLATES ARE MADE OF 20/18/16GA (40/35/21) ASTM A653 GRADE 40/42 (40/35) GALV STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002, SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



FL / - / 4 / - / - / R / -	Scale = .375"/ft.
TC LL 20.0 PSF	REF R487 - 18842
TC DL 10.0 PSF	DATE 10/12/06
BC DL 10.0 PSF	DRW HCUSR487 06285011
BC LL 0.0 PSF	HC-ENG JB/AF
TOT. LD. 40.0 PSF	SEQN- 131744
DUR. FAC. 1.25	
SPACING 24.0"	JREF- 111E487_201

[illegible]

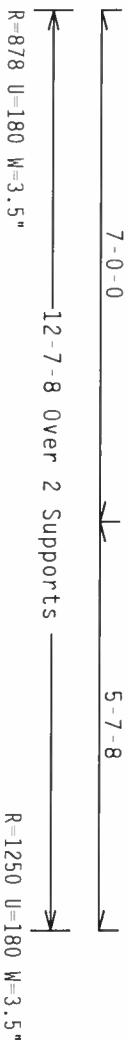
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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

left side jacks have 7-0-0 setback with 0-0-0 cant and 1-6-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 0-0-0 overhang. Right side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

0-0-0 overhang.



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 = .375"/Ft.

**WARNING:** THESE ARTS REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. REFER TO BCS1-1.03 (BUILDING CODES, CARE IN FABRICATING), PUBLISHED BY TPI (TERRACE PLANT INSTITUTE, 563 D'ORNBORO RD., SUITE 200, MADISON, WI 53719) AND NICA (NATIONAL FIREPROOFING SOCIETY OF AMERICA, 6500 INTERSTATE IN MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PAPER'S AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BRUSSELS TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AWS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTION PLATES MADE ON PERMANENTLY STAMPED OR IDENTIFIED PLATES.

CONNECTION PLATES, MADE OF 2017 (AL-Ti-0.5%) ASH 6053 GRADE, 40/60 (8" x 1/8") GALV. STEEL 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 43 OF TPII 2002 SEC. 3.  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLICIT FOR THE TRUSS COMPONENT  
A SEAL ON THIS

DESIGN SHOP. THE SUITABILITY AND USE OF THIS COMPONENT FOR THE THIS COMPONENT FOR THE BUILDING DESIGNER PER ANSI/HP 1 SEC. 2.

TC LL	20.0 PSF	REF	R487 - - 18843
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285113
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	130906
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1T1E487 Z01

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

Wind reactions based on MMFRS pressures.

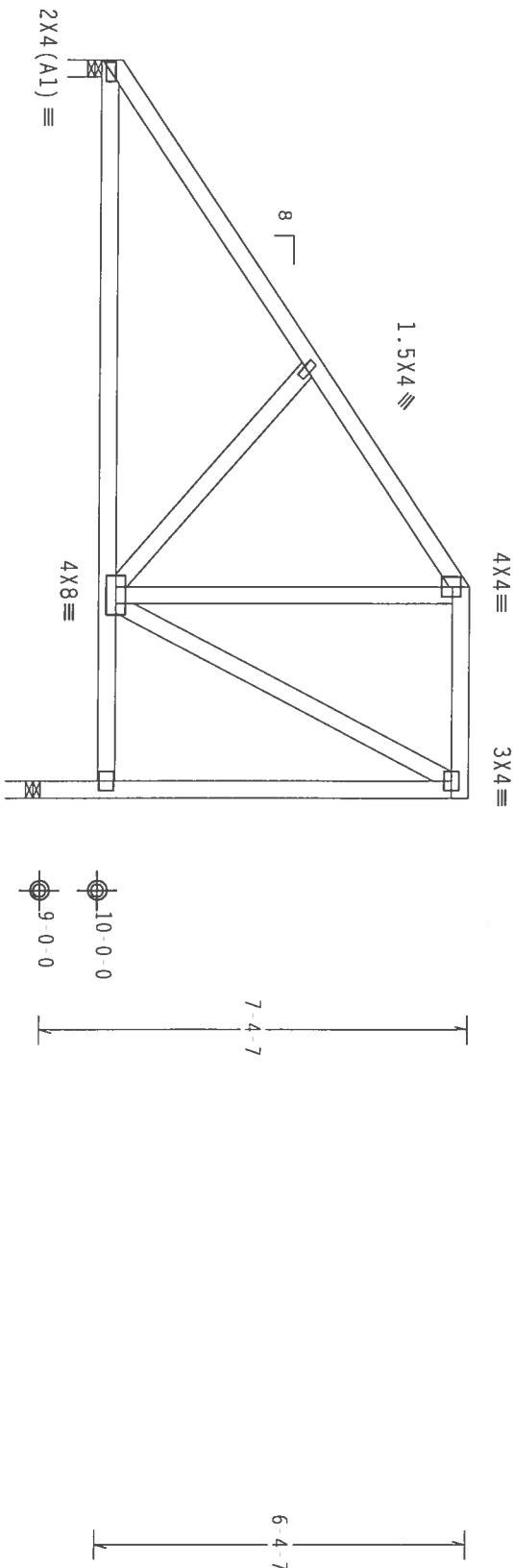
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

Leg down designed for vertical loads only.

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 3-7-8  
12-7-8 Over 2 Supports  
R=530 U=180 W=3.5" R=530 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 = .3125"/ft.

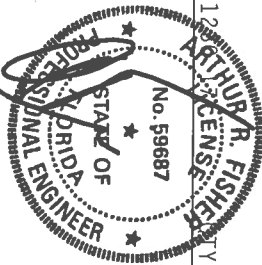
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 1500 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. CONNECTOR PLATES HAVE APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE TRUSSES ARE DESIGNED TO LAST 40 YEARS (40/100 (40, 60/100) GALT. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE DESIGN COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

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

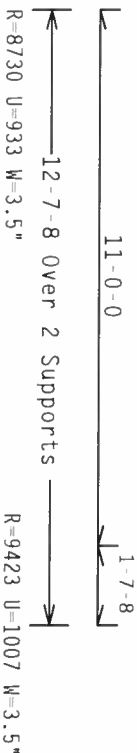
Professional Engineer License # 447



TC LL	20.0 PSF	REF	R487--	18844
TC DL	10.0 PSF	DATE	10/12/06	
BC DL	10.0 PSF	DRW	HCUSR487	06285108
BC LL	0.0 PSF	HC-ENG	TCE/AF	*
TOT.LD.	40.0 PSF	SEQN-	130911	
DUR.FAC.	1.25			
SPACING	24.0"			
		JREF-	17TE487	201

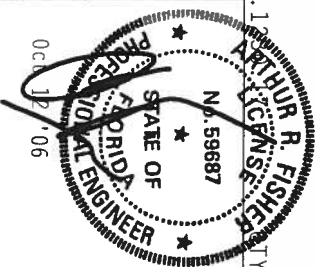
Leg-down designed for vertical loads only.

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



Scale = .25" / Ft.

James City, FL 33844  
Certificate # 33844



TC LL	20.0 PSF	REF	R487 - 18845
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285115
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN -	131479
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF -	11E487_Z01

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

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



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

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

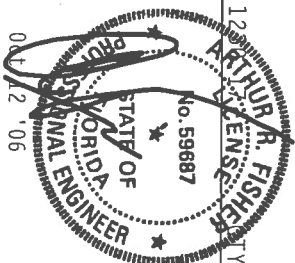
7.24.12

FI/14/1-1R/-

Scale = .375" / Ft.

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

FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 18846
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCU8487 06285063
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	130885
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JRFF	111F487 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 TCDL=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.



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

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

7.24.13

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

Scale = .3125"/Ft.

No. 59687

ALPINE ENGINEERED

TRUSS IN CONFORMANCE WITH IPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

FI Certificate of Authorization # 567

TC LL	20.0 PSF	REF	R487-- 18847
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285117
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	130890
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	11IE487_Z01

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

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.



ARTHUR R. FISHER  
LICENSE

Scale = .3125"/Ft.

**Alpine Engineered Products, Inc.**

FL Certificate of Authorization # 567

\* **WARNING** \* TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RC-31 (2) BUILDING EXHIBIT "CARE IN FABRICATION". PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 5030 BELLVIEW DR., SUITE 200, MADISON, MI 47731) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., TOP CONRO SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CONRO SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\* **IMPORTANT** \* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. AT THE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI'S ON FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. FOR WOOD TRUSSES), CONNECTOR PLATES ARE MADE OF 20/18/16GA. (W.H./S/K) ASTM A563 GRADE 40/60 (W, K/H/S) GALV STEEL. PLATES TO EACH FACE OF TRUSS AND TO EACH FACE OF EACH CHORD. POSITION PER DRAWINGS 160A-Z. DRAWING DETAILS OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING DETAILS OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN SIGN THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER A11/TPI 1 SEC. 3.

90. 2000

STATE OF FLORIDA  
PROFESSIONAL ENGINEER

No. 59687

TC LL	20.0 PSF	REF	R487 - 18848
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06285121
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN -	130895
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	111E/87 Z01

JR-F - TITLE 17 201



## 2 COMPLETE TRUSSES REQUIRED

Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 3.00" o.c.  
Walls : 1 Row @ 4" o.c.

Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails

Right end vertical not exposed to wind pressure.

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.

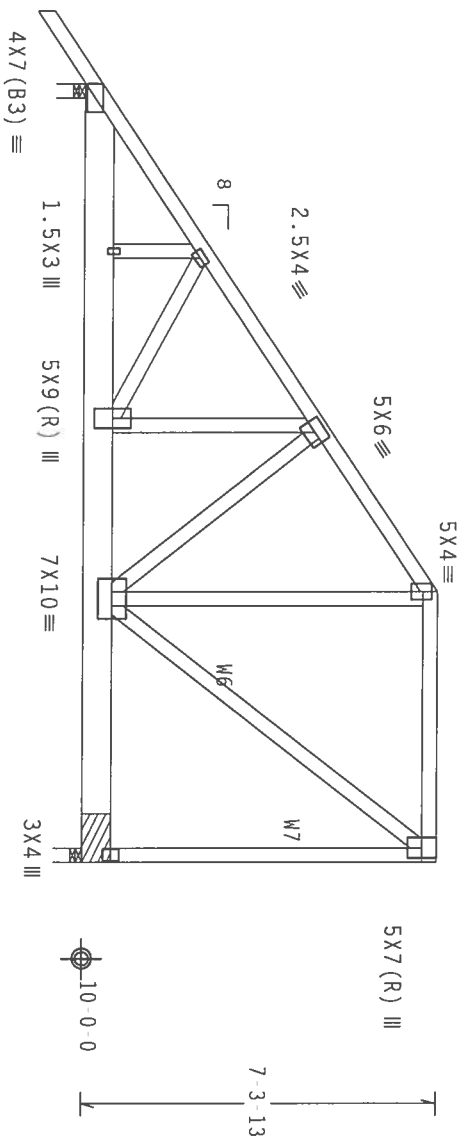


Diagram illustrating the dimensions and support locations for a beam. The total length is 10.5. The distance from the left end to the first support is 16.0. The distance between the two supports is 0.0. The distance from the second support to the right end is 5.7. The beam is labeled "Over 2 Supports". The dimensions are given as R=4409 U=474 W=3.5" and R=6858 U=738 W=3.5".

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

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

7.25.01

FL/14/1-1R/1-

Scale = .25"/Ft.

**\*WARNING:**—TRUSSES REQUIRING EXHIBIT CANNOT BE FABRICATED, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE), 5832 D. ORO RIO RD., SUITE 200, HADISON, NJ 07151, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, HADISON, NJ 07157) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PILES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, SHIPPING, INSTALLING & BRACING OF TRUSSES

TRUSSES IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/S/K) ASH A653 GRAD. 40/60 (W. K/H.5) GALV. STEEL. APPLY

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

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

BUILDING DESIGNER PER ANSI/API 1 SEC. 2.

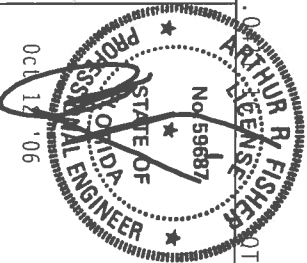
100

ALPINE

Alpine Engineered Products, Inc.

Haines City, FL 33844

FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 18849
TC DL	10.0 PSF	DATE	10/12/06
BC DL	10.0 PSF	DRW	HCSR487 06285012
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	67904 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TIE487_Z01

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 PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

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

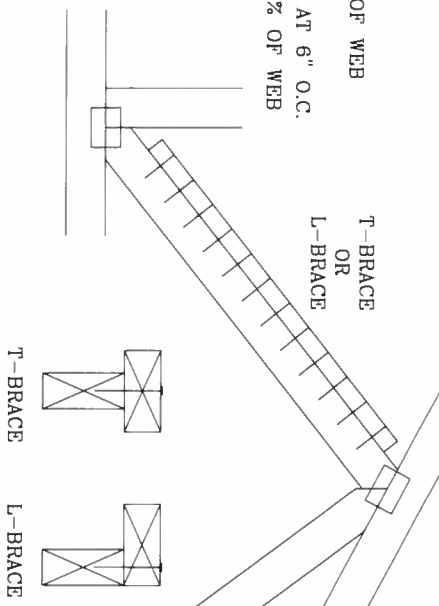
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

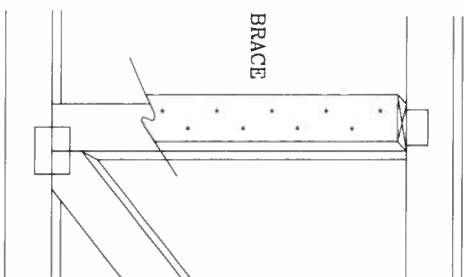
APPLY TO EITHER SIDE OF WEB  
NARROW FACE  
ATTACH WITH 16d NAILS AT 6" O.C.  
BRACE IS A MINIMUM 80% OF WEB  
MEMBER LENGTH

T-BRACE  
OR  
L-BRACE



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

SCAB BRACE



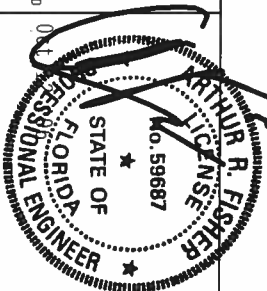
THIS DRAWING REPLACES DRAWING 579,640

# ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAN0 BEACH, FLORIDA

THE TRUSSES, REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS & PLATE INSTITUTE, 5903 BONDURD RD, SUITE 200, MADISON, WI 53719) AND WIGA (WOOD TRUSS COUNCIL OF AMERICA, INC., 1000 W. MADISON ST. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. THE TRUSSES SHOULD BE HANDLED AND STORED PROPERLY. THE TRUSSES, STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

PRODUCT NAME: 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 THE TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD CONSTRUCTION), DESIGN CONNECTOR PLATES ARE MADE OF 2018/1816GA (U.S. ASTM A653 GRADE 40/60 GALV. AND GALV. STEEL CONNECTOR PLATES ARE MADE OF 2018/1816GA (U.S. ASTM A653 GRADE 40/60 GALV. AND GALV. STEEL). THE TRUSSES SHALL BE INSPECTED BY AN INSPECTOR (AS REQUIRED BY PER ANNEK A3 OF TPI-1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN, THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSV1/P1 1 SEC. 2

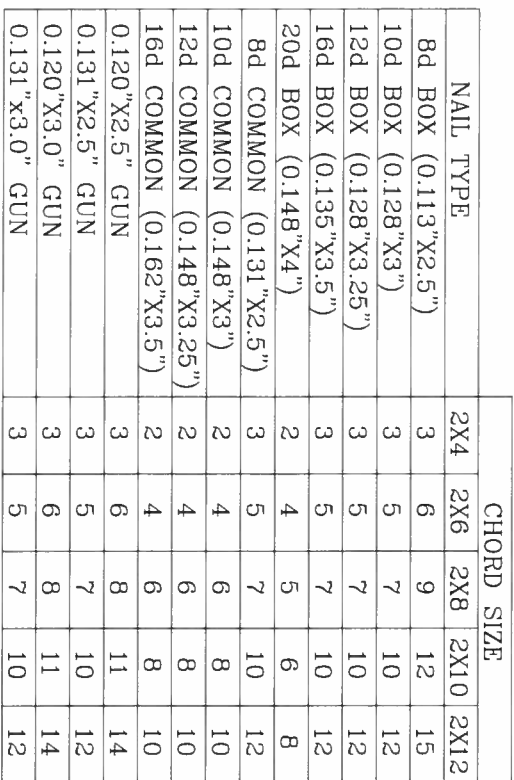


TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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)

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.

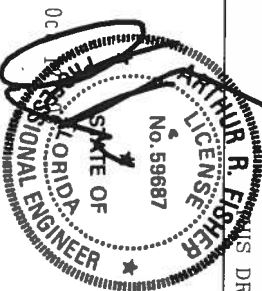


### MINIMUM NAIL SPACING DISTANCES

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 CNBRGBLK06999

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

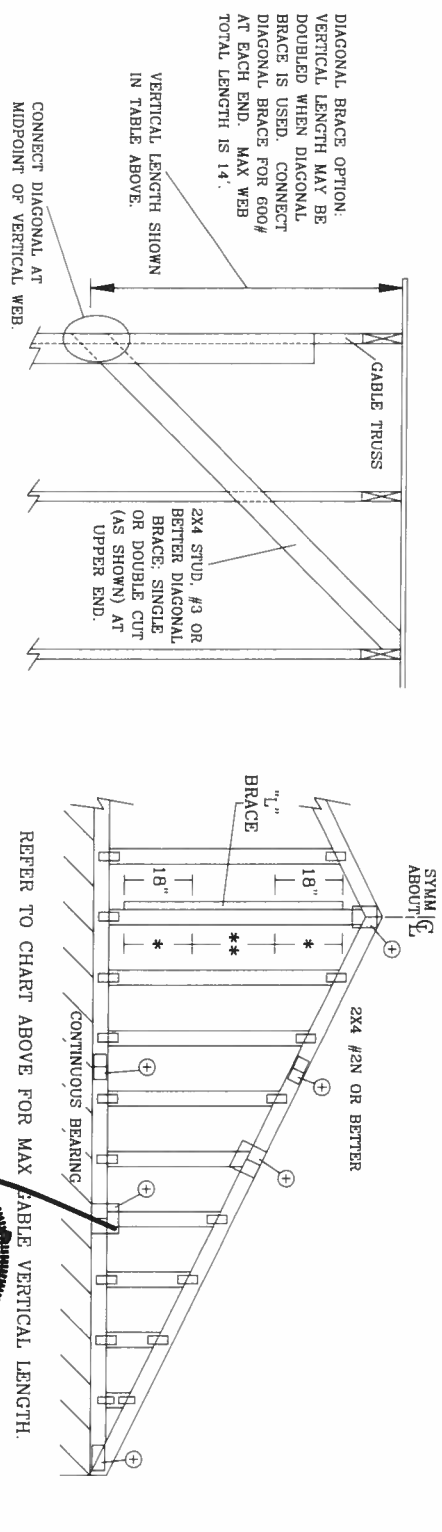


REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGblk1103
-ENG	SJP/KAR

-ENG SJP/KAR

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

MAX GABLE VERTICAL LENGTH		2x4		BRACE		NO		BRACES		(1) 1x4 "L" BRACE •		(1) 2x4 "L" BRACE •		(2) 2x4 "L" BRACE •		(1) 2x6 "L" BRACE •		(2) 2x6 "L" BRACE •	
SPACING	GABLE VERTICAL SPECIES	GRADE	BRACE	NO	BRACES	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	STUD	#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	3' 10"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	STUD	#3	3' 10"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	3' 10"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	SPF	#1 / #2	4' 5"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	STUD	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SPRUCE-PINE-FIR	HEM-PIR
#1 / #2 STANDARD	#2 STUD
#3 STUD	#3 STANDARD
DOUGLAS FIR-LARCH	
#3 STUD	#3 STUD
STANDARD	STANDARD
GROUP B:	
HEM-FIR	HEM-BTR
#1 & BTR	#1
SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 80 PSF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
- CABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS.
- \* FOR (1) "L" BRACE: SPACE NAILS AT 2' 0" O.C. IN 16' END ZONES AND 4' 0" O.C. BETWEEN ZONES.
- \*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' 0" O.C. IN 16' END ZONES AND 6' 0" O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0" BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*VARIATIONS\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT DESIGN) BY THE BUILDING RESEARCH BOARD, NATIONAL PLATE INSTITUTE, 583 DUNDRAFF DR., SUITE 200, MADISON, WI 53719 AND VTC-0201 TRUSS, THROUGH PLATE INSTITUTE, 6300 ENTERPRISE LN., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS OR ANY DAMAGE TO THE BUILDING OR PERSONS OR PROPERTY. DESIGN, INSTALLING & BRACING OF TRUSSES. DESIGN CONCEPTS WITH APPROPRIATE SAFETY FACTORS SHALL BE DESIGN SPEC. BY AEP® AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018-T3 ALUMINUM (AL-6061-T6) 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 ACCEPTED BY (C) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

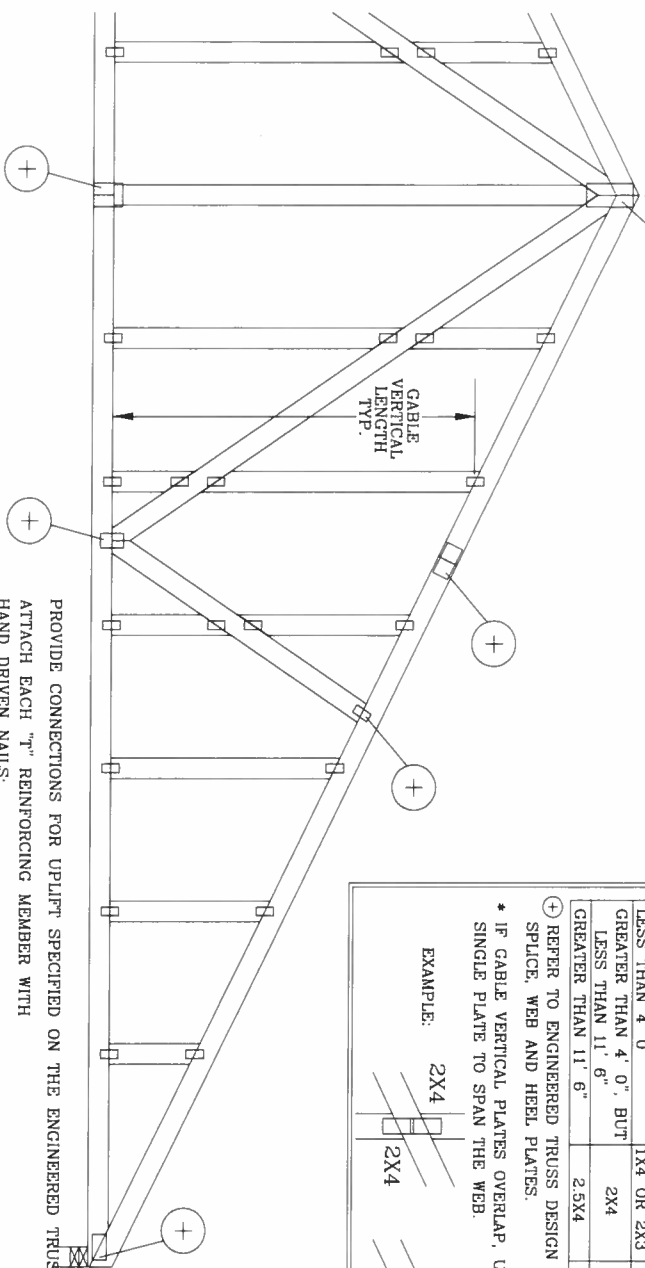
REF ASC7-98-GAB11015

DATE 11/26/03

DRWG A11015EC1103

-ENG

SYM.  $\oplus$   
ABOUT

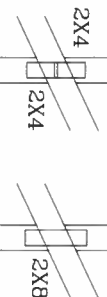


CABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X6
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X6
GREATER THAN 11' 6"	2.5X4	2.5X6

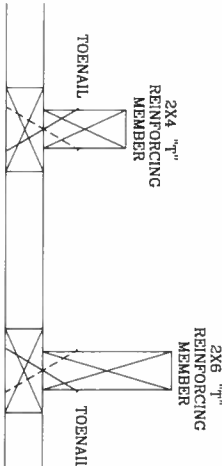
⊕ REFER TO ENGINEERED CROSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

\* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

**EXAMPLE:**



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



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

WEB LENGTH INCREASE W/ "T" BRAC

WIND SPEED AND MRH	T <sub>1</sub> REINF. MBR. SIZE	SBCCI	ASCE
110 MPH 15 FT	2x4	10 %	10 %
110 MPH 30 FT	2x4	40 %	50 %
100 MPH 15 FT	2x6	10 %	10 %
100 MPH 30 FT	2x4	50 %	50 %
100 MPH 15 FT	2x4	10 %	10 %
100 MPH 30 FT	2x6	30 %	50 %
90 MPH 15 FT	2x4	10 %	10 %
90 MPH 30 FT	2x6	40 %	40 %
90 MPH 15 FT	2x4	20 %	40 %
90 MPH 30 FT	2x6	20 %	10 %
80 MPH 15 FT	2x4	10 %	10 %
80 MPH 30 FT	2x6	30 %	50 %
80 MPH 15 FT	2x4	10 %	20 %
80 MPH 30 FT	2x6	10 %	30 %
70 MPH 15 FT	2x4	20 %	10 %
70 MPH 30 FT	2x6	20 %	40 %
70 MPH 15 FT	2x4	0 %	20 %
70 MPH 30 FT	2x6	0 %	20 %
30 FT	2x4	10 %	30 %

### EXAMPLE

ASCE WIND SPEED = 100 MPH  
MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

"J" REINFORCING MEMBER SIZE = 2X4

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

$$1.10 \times 6' 7'' = 7' 3''$$
[illegible]

876,719 GAB98117 DRAWINGS CES

REF	LE
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DATE 04/11/2018

DRWG GI

-ENG DI

[illegible]

MAX TOT. LD. 60 PSF
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JR. FAC. ANY

MAX SPACING 24.0"

## ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

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 NOS (NATIONAL DESIGN & BRACING) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16/6GA C/VH/AS ASTM A653 GRADE 50 C/VH/AS GAL. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED OR INDICATED BY DRAWING PER DRAWING 160A-2, AN INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PERFORMED TO DETERMINE PERMANENTLY SOLELY. ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY. THE TRUSS COMPONENT DESIGN SHOWN. THE DESIGNER'S SIGNATURE, PER ANSI/CPRI, SEC. 2

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN  
 ATTACH EACH "T" REINFORCING MEMBER WITH  
 HAND DRIVEN NAILS:  
 10d COMMON (0.148" X 3," MIN) TOENAILS AT 4" O.C. PLUS  
 (4) 16d COMMON (0.162" X 3.5," MIN) TOENAILS IN TOP AND BOTTOM CHORD.  
 GUN DRIVEN NAILS:  
 8d COMMON (0.131" X 2.5," MIN) TOENAILS AT 4" O.C. PLUS  
 (4) TOENAILS IN TOP AND BOTTOM CHORD.  
 THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCCE  
 OR SBCCI WIND LOAD.  
 SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI  
 WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE OR SBCCI  
 VERTICAL LENGTH.

REF LEFT-IN VEBT

DATE 04/14/03

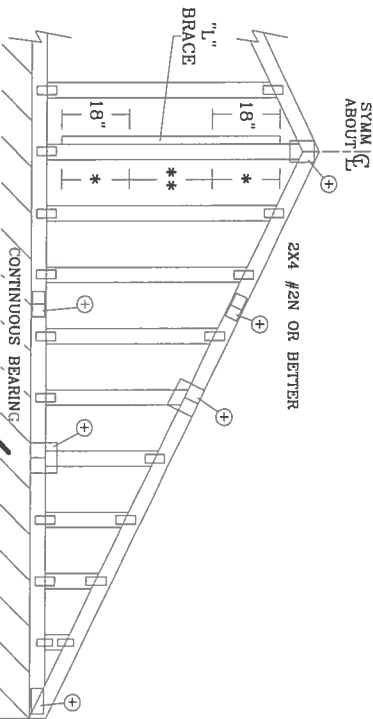
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DIR FAC ANY

MAX SPACING	24.0
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ING 24.0"



ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

DIAGONAL BRACE OPTION:  
VERTICAL LENGTH MAY BE  
DOUBLED WHEN DIAGONAL  
BRACE IS USED. CONNECT  
DIAGONAL BRACE FOR 600#  
AT EACH END. MAX WEB  
TOTAL LENGTH IS 14'.

VERTICAL LENGTH  
IN TABLE ABOVE

CONNECT DIAGONAL AT  
MIDPOINT OF VERTICAL WEB

■WARNING■  
BARRIERS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, AND SHIPPING. INSTALLING AND  
MAINTAINING BARRIERS REQUIRES SPECIALIZED TRAINING. SEE THE FOLLOWING REFERENCES FOR  
PLATE INSTITUTE, 563 DUNDAS RD. S., SUITE 200, MADISON, WI 53719 AND VITA CYCLOS THERM CONDUCT  
OF AMERICA, 6300 ENTERPRISE, IN MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING  
THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED  
STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*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 RUILD THE TRIPS IN CONFORMANCE WITH TOI, NO COOPERATING, WARNING CURRENTING INSTALLING &

40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED, PROVIDE PLATES WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION FOR STEEL STRUCTURES BY AISC AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRABED

ON THIS DESIGN, USUALLY PER DRAWINGS 1604-2, ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TPI-1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE

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

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ITEM - FIVE

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**DOUGLAS FIR-LARCH**

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**Abstract**

HARING (5 PSF TC DEAD LOAD)

THIS LOAD FROM 4 0  
TH 3' 0" OVERHANG ON 13"

JIANG.

RACE: SPACE NAILS AT 2" O.C.

PACKETS: SPACE NAILS AT 3" O.C. BETWEEN JOISTS AND 4 O.C. BETWEEN STUDS.

JONES AND B. U.C. BETWEEN 20

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## COMMON TRUSS DESIGN FOR

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DEF ASSEMBLY 03 CABIN

DATE 04/15/05

DPWG 41101EFG04C

## END

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100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG,  
LOCATED ANYWHERE IN ROOF, CAT II, EXP C,  
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC,  
ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF  
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98,  
CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT. II,  
EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.

\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

PIGGYBACK CAP TRUSS TOENAILLED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

FLAT TOP CHORD  $\leq 30^\circ$

PLAT TC BRACING  
PER ENGINEER'S  
SEALED DESIGN

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CAP TRUSS TOENAILLED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 1607L FOR TRULOX INFORMATION.

FLAT TOP CHORD  $\leq 30^\circ$ 

IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.

(4) 8d COMMON NAILS (0.131"X2.5")

8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 8d COMMON NAILS PER GUSSET, (4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

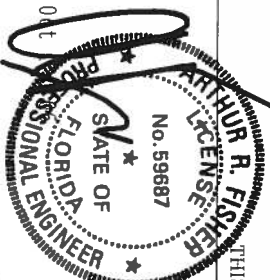
THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860



ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND  
 \*\*\*WARNING\*\*\* REFER TO BECI-1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS  
 PLATE INSTITUTE, 583 DUNDAS RD. SUITE 200, MADISON, WI 53719 AND VITA (VANDU) TRUSS CONSULT  
 OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING  
 STRUCTURAL ANALYSIS. UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED  
 STRUCTURAL PANELS AND BOLTS/CLIPS SHALL HAVE A MINIMUM ATTACHED RIGID CEILING.

\*\*\*WARNING\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
 PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO  
 BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING &  
 BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC,  
 BY AISC/AIA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018T6/GA (A13705) ASTM A633 GRADE  
 50, 50K. ALL OTHERS ARE MADE OF 2018T6/GA (A13705) ASTM A633 GRADE 50, 50K. UNLESS OTHERWISE LOCATED  
 ON THIS DESIGN, POSITIONED, OR OTHERWISE INDICATED, ALL BOLTS SHALL BE 1/2" DIA. A325. ALL BOLTS  
 BE PER ANNEX A3 OF TPI-1-2008 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF  
 PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF  
 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	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGBACKA0405
BC LL	PSF	-ENG	DLJ/KAR
TOT. LD. MAX 60	PSF		
DUR. FAC.	1.15		
SPACING	24.0"		



TOP CHORD 2X4 #2 OR BETTER  
BOT CHORD 2X4 #2 OR BETTER  
WEBS 2X4 #3 OR BETTER

# PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

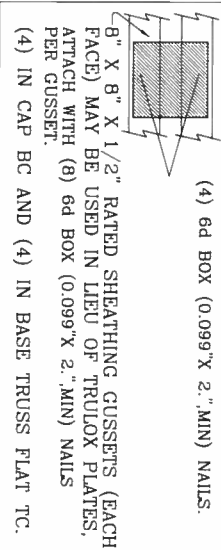
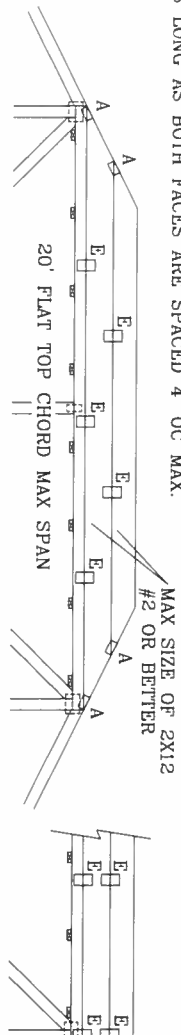
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C,

WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC, ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E,\*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



130 MPH WIND, 30' MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

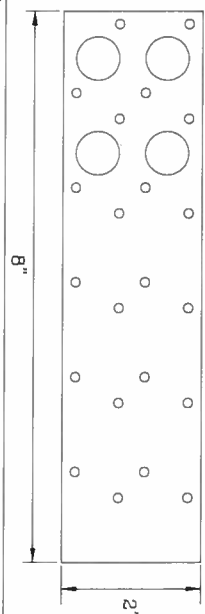
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

## WEB BRACING CHART

WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC.

## \* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



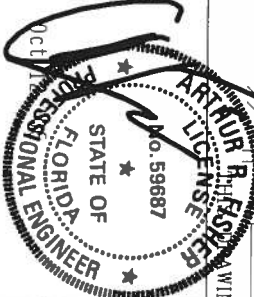
\*ATTACH PIGGYBACK WITH 3X8 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

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

\*\*\*HYPERFRAM\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY AREA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16/6A (W/H/S/K) ASTM A653 GRADE 50/50.5 (ZNS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED OR NOTED, FASTEN WITH 16D BOX (0.135" X 3.5" MIN) NAILS. THIS BRACING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL FOR THIS BRACING DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA



DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045

MAX LOADING	REF	PIGGYBACK
55 PSF AT	DATE	04/14/05
1.33 DUR. FAC.	DRWG	PIGGYBACK0405
50 PSF AT	ENG	DLJ/KAR
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
SPACING		24.0"