

# 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:1T0Y487-Z0126095052

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-332--Sparks Construction Tillman -- , \*\*  
Truss Count: 40  
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 - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

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

Details: BRCLBSUB-A11015EE-GBLLETIN-PIGBACKA-PIGBACKB-

Seal Date: 09/25/2006

-Truss Design Engineer-

Arthur R. Fisher

Florida License Number: 59687

1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	88865--A1-GE		06269006	09/26/06
2	88866--A2		06269001	09/26/06
3	88867--A3		06269002	09/26/06
4	88868--A4G		06269003	09/26/06
5	88869--A5-GE		06269004	09/26/06
6	88870--B1		06269011	09/26/06
7	88871--B2		06269008	09/26/06
8	88872--C1-GE		06269030	09/26/06
9	88873--C2		06269003	09/26/06
10	88874--C3		06269033	09/26/06
11	88875--D1-GE		06269001	09/26/06
12	88876--D2		06269019	09/26/06
13	88877--D3		06269025	09/26/06
14	88878--D4G		06269013	09/26/06
15	88879--FG1		06269005	09/26/06
16	88880--FG2		06269010	09/26/06
17	88881--HJ7		06269014	09/26/06
18	88882--EJ7		06269018	09/26/06
19	88883--J5		06269015	09/26/06
20	88884--J3		06269016	09/26/06
21	88885--J1		06269017	09/26/06
22	88886--K1		06269023	09/26/06
23	88887--K2		06269024	09/26/06
24	88888--K3		06269006	09/26/06
25	88889--K4		06269004	09/26/06
26	88890--K5		06269028	09/26/06
27	88891--K6		06269029	09/26/06
28	88892--K7		06269026	09/26/06
29	88893--K8		06269027	09/26/06
30	88894--K9		06269009	09/26/06
31	88895--K10G		06269007	09/26/06
32	88896--K11		06269022	09/26/06
33	88897--K12		06269021	09/26/06
34	88898--K13		06269020	09/26/06
35	88899--K14-GE		06269031	09/26/06
36	88900--K15G		06269012	09/26/06

#	Ref	Description	Drawing#	Date
37	88901--AP1-GE		06269005	09/26/06
38	88902--AP2		06269034	09/26/06
39	88903--S1		06269032	09/26/06
40	88904--Z1		06269002	09/26/06





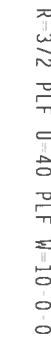
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC

DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Scale = .1875"/Ft.

STATE OF  
No. 59687

REF	R487 - 88865
DATE	09/26/06

BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 64301 RE
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T0V487_Z01

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W6, W23 2x4 SP #2 Dense:

Wind reactions based on MWFRS pressures.

(A) 2x6 SP #3 or better "T" brace, 80% length of web member.

Attach 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 9'-5"-8" to 27'-4"-8".

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

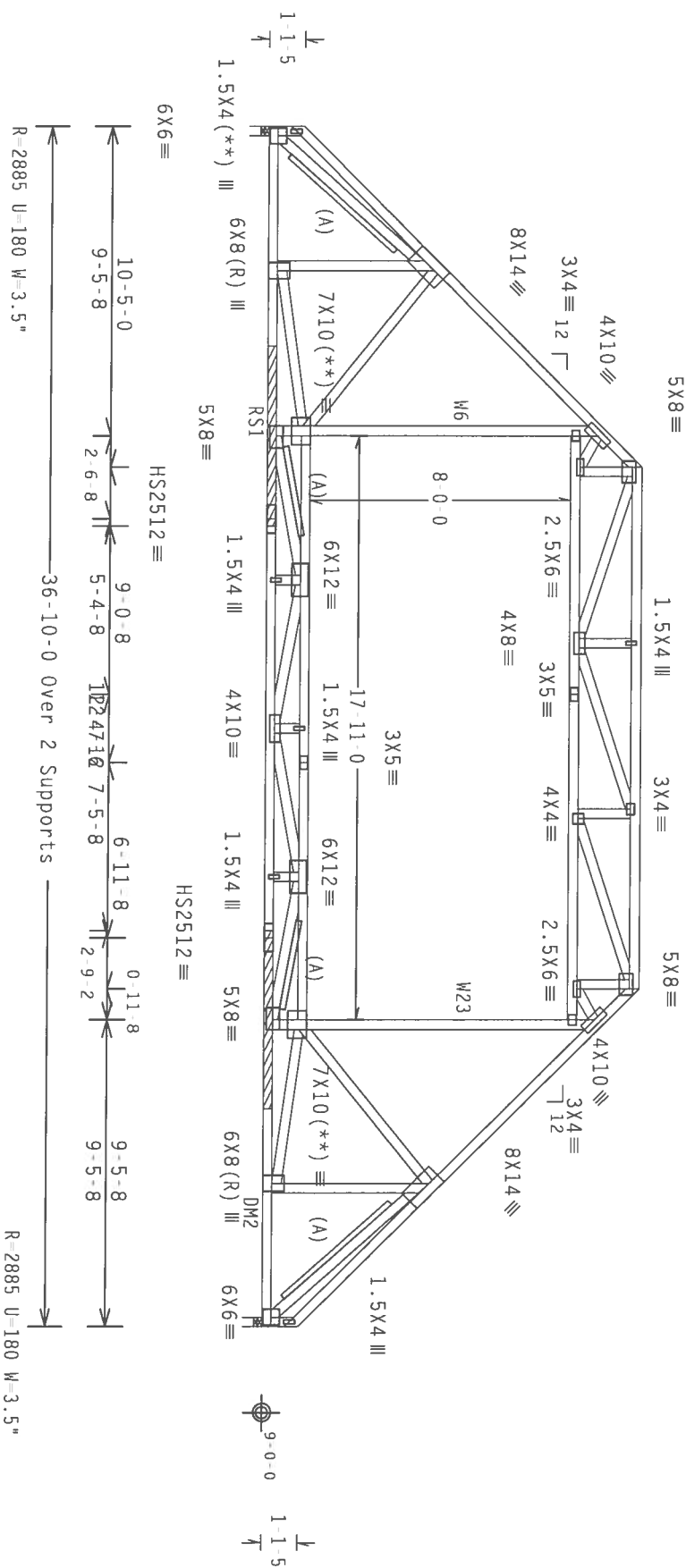
(\*\*) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

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

(1) 2x4x5-6-0 SP #2 Dense Bottom chord scab centered 9'-5"-10" from left end. Attach to one face of chord with (2) rows of 12d Common (0.148"x3.25".min.) nails @ 6" O.C., staggered 3".

(1) 2x4x5-6-0 SP #2 Dense Bottom chord scab centered 27'-4"-6" from left end. Attach to one face of chord with (2) rows of 12d Common (0.148"x3.25".min.) nails @ 6" O.C., staggered 3".



PLT TYP. 20 Gauge HS, Wave

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

FL/-/4/-/R/-

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESI 1.03 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI, INC., 10000 DR., SUITE 200, MADISON, WI 53719, AND WEA (WOOD TRUSS COUNCIL OF AMERICA) GOOD PRACTICES. 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.

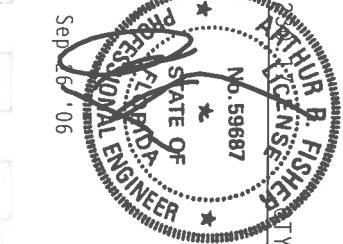
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. FOR ALPINE AND TPI. ALPINE CONNECTIONS ARE MADE OF 20/18/16GA (W/1/2X5) ASTM A553 GRADE 40/60 (W/ K/H/S) GALV. STEEL. APPLY TO ALL CONNECTIONS. ALPINE TRUSSES ARE DESIGNED TO BE USED IN CONFORMANCE WITH THE TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER DESIGN. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

Professional Engineer No. 59687



TC LL	20.0 PSF	REF	R487-- 88866
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCSR487 06269001
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	129211
DUR.FAC.	1.25		
SPACING	24.0"		

JRFF-170V487-201

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	:W6, W23
					2x4 SP #2 Dense:

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 9-5-8 to 27-4-8.

(\*\*) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.32 ft mean ht., ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

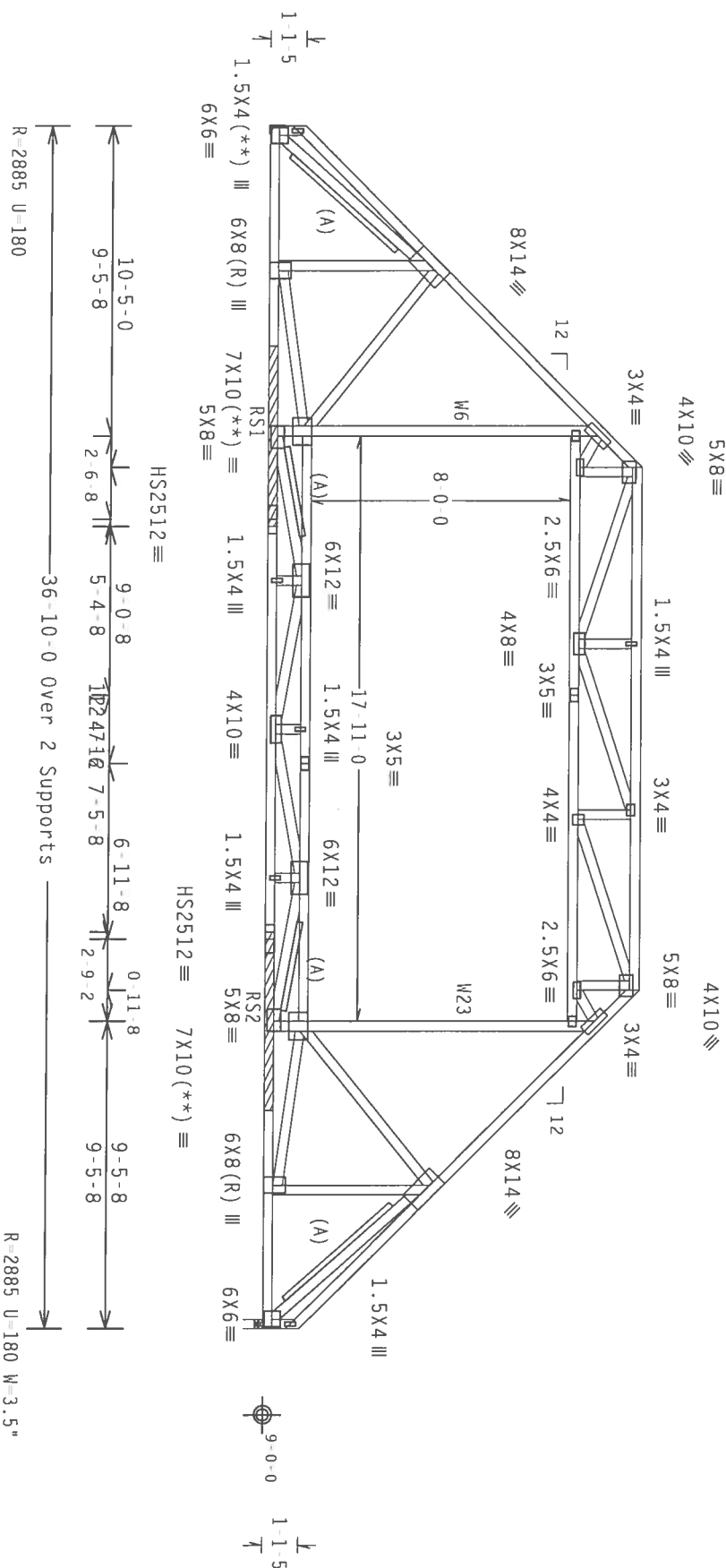
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

**RS1**

(1) 2x4x5 6-0 SP #2 Dense Bottom chord scab centered 9'-5" from left end. Attach to one face of chord with (2) rows of 12d Common (0.148"x3.25", min.)\_nails @ 6" O.C., staggered 3".

**RS2**

(1) 2x4x5 6-0 SP #2 Dense Bottom chord scab centered 27'-4" from left end. Attach to one face of chord with (2) rows of 12d Common (0.148"x3.25", min.)\_nails @ 6" O.C., staggered 3".



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

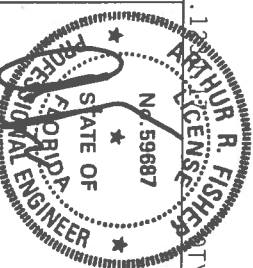
\*WARNING\*—FROSTES ROUTINE EXTERIOR CARE IN FABRICATED, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DES-1 TO 3 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE FROSTES TRADING INSTITUTE, 543 O'ROURD RD., SUITE 200, MADISON, WI 53719, AND WICA (WOOD PRESERVATION) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTLS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

ALPINE

Alpine Engineered Products, Inc.  
1050 Madison Drive  
Boulder, CO 80501

Haines City, FL 33844



FL/-4/-/-/R/-		Scale= .1875"/Ft.	
TC LL	20.0 PSF	REF	R487 - 88867
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	H05R487 06269002
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	129219
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T0V487 201



Top Chord 2x4 SP #2 Dense  
Bot Chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W4, W6, W23 2x4 SP #2 Dense:

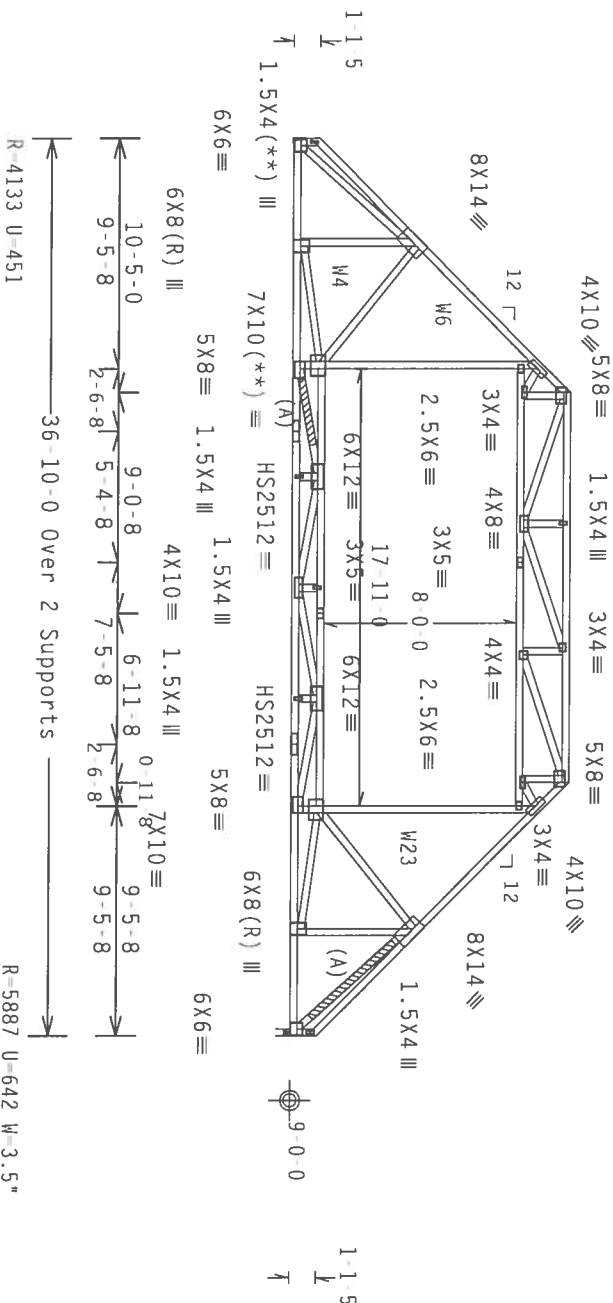
SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 91 PLF at 0.00 to 91 PLF at 28.44  
TC - From 335 PLF at 28.44 to 453 PLF at 34.67  
TC - From 91 PLF at 34.67 to 91 PLF at 36.83  
PLT - From 27 PLF at 9.46 to 27 PLF at 27.38  
BC - From 27 PLF at 0.00 to 27 PLF at 9.46  
BC - From 160 PLF at 9.46 to 160 PLF at 27.38  
BC - From 27 PLF at 27.38 to 27 PLF at 36.83  
TC - 440 LB Conc. Load at 34.67  
BC - 246 LB Conc. Load at 9.46, 27.38

Wind reactions based on MMFRS pressures.

Trusses to be spaced at 32.0" OC maximum.

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 @ 7.50" o.c.  
Bot Chord: 1 Row @ 12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.32 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 5.83 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

Collar tie braced with continuous lateral bracing at 24" OC.

PLT TYP. 20 Gauge HS, Wave

Design Crit: TPI-2002(STD)/FBC

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

TY:1

FL/-/4/-/R/-

Scale = .125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DETAIL 1 ON CONTINUOUS COMPONENT SAFETY INFORMATION, W-527(9) AND W-527(10) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

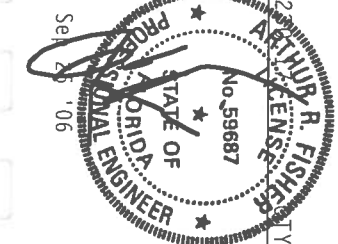
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, CONNECTION PLATES ARE MADE OF 20/18/16GA (4-11/16) ASTM A653 GRADE 40/50 (4, 4-11/16) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T604.2.

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

Phone #571-331-1111  
Fax #571-331-1111



TC LL	20.0 PSF	REF R487-- 88868
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUSR487 06269003
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 129227
DUR.FAC.	1.25	
SPACING	32.0"	JREF- 170V487_Z01

Top chord 2x4 SP #2 Dense :T3 2x6 SP #2:  
Bot chord 2x8 SP SS  
Webs 2x4 SP #3

:W4, W7, W15, W19 2x4 SP #2 Dense:

SPECIAL LOADS

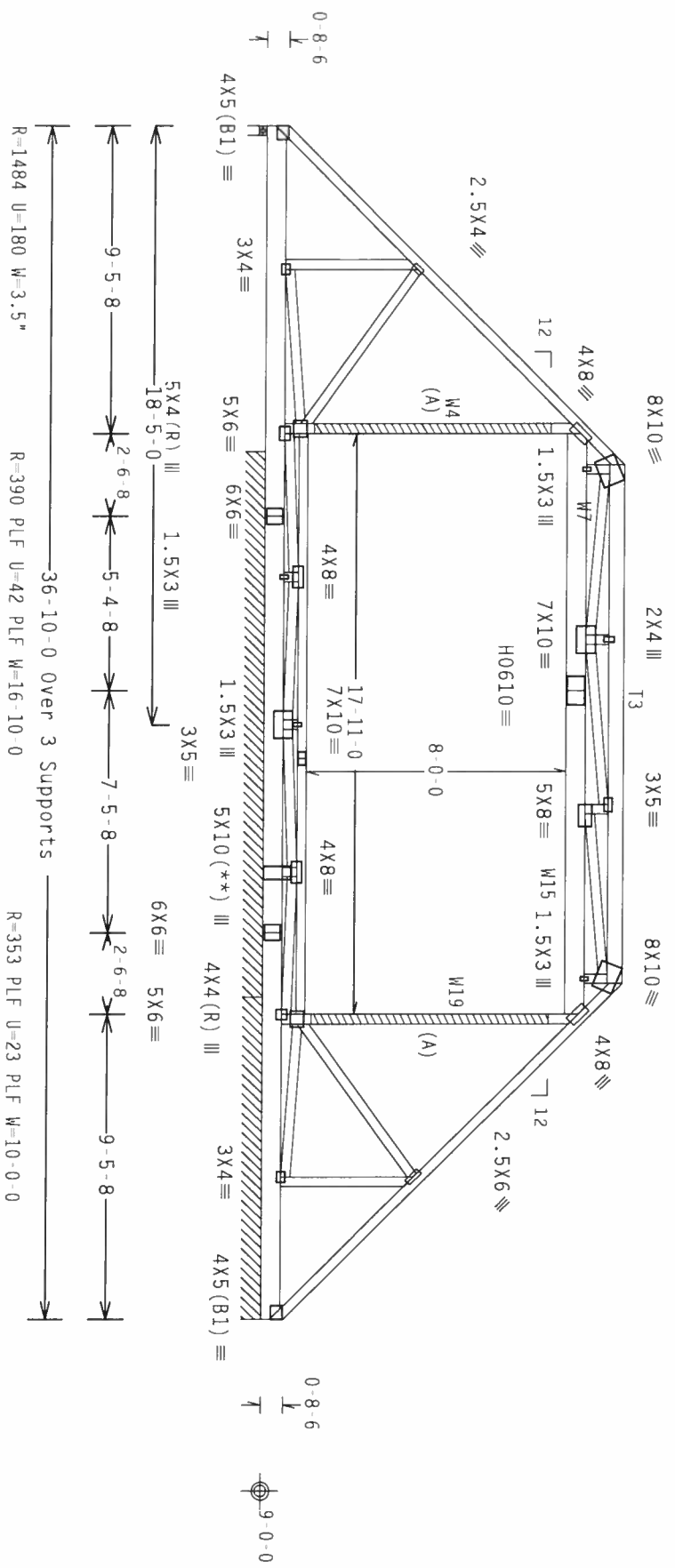
TC - From	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25
TC - From	68 PLF at 0.00 to 68 PLF at 10.42
TC - From	68 PLF at 10.42 to 68 PLF at 36.83
PLT - From	20 PLF at 9.78 to 20 PLF at 27.05
BC - From	20 PLF at 0.00 to 20 PLF at 9.46
BC - From	120 PLF at 9.46 to 120 PLF at 27.38
BC - From	20 PLF at 27.38 to 20 PLF at 36.83
BC - 184 LB Conc. Load at 9.46, 27.38	
BC - 2210 LB Conc. Load at 20.33	
BC - 382 LB Conc. Load at 20.58,	
22.58, 24.58, 34.58	

(\*\*) 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, not located within 4.50 ft from roof edge, Cat II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



PLT TYP. 20 Gauge HS.Wave

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

7.25

FL/-/4/-/R/-

Scale = .1875"/ft.

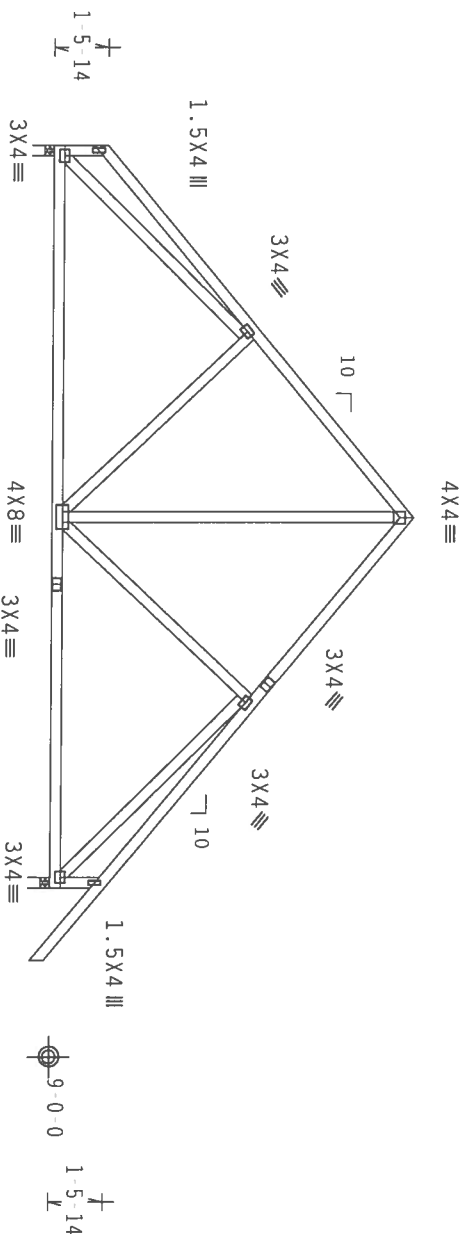
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, TRUSSING, 300 DUNDAS ST. W., SUITE 200, MISSISSAUGA, ON L4V 1L3, CANADA. (905) 276-1111. (905) 276-1112. (905) 276-1113. (905) 276-1114. (905) 276-1115. (905) 276-1116. (905) 276-1117. (905) 276-1118. (905) 276-1119. (905) 276-1120. (905) 276-1121. (905) 276-1122. (905) 276-1123. (905) 276-1124. (905) 276-1125. (905) 276-1126. (905) 276-1127. (905) 276-1128. (905) 276-1129. (905) 276-1130. (905) 276-1131. (905) 276-1132. (905) 276-1133. (905) 276-1134. (905) 276-1135. (905) 276-1136. (905) 276-1137. (905) 276-1138. (905) 276-1139. (905) 276-1140. (905) 276-1141. (905) 276-1142. (905) 276-1143. (905) 276-1144. (905) 276-1145. (905) 276-1146. (905) 276-1147. (905) 276-1148. (905) 276-1149. (905) 276-1150. (905) 276-1151. (905) 276-1152. (905) 276-1153. (905) 276-1154. (905) 276-1155. (905) 276-1156. 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THIS WORK PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY IKUSS M.K.

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

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

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



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

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

7.24.1

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

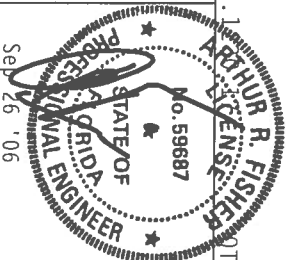
Scale = .1875"/Ft.

\*\*WARNING\*\* PASSENGERS REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO #75-1 (BUILDING COMPONENT SAFETY INFORMATION), RULNISHED BY IPI (CROSS HATCH INSSTITUTE, 584 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 KENNEDY HWY, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED ALL CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED LIGAL CEILING.

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

Alpine Engineered Products, Inc.

1950 Harley Drive  
Haines City, FL 33844  
Certification #:



Sep 26 '06

TC LL	20.0 PSF	REF	R487 - 88870
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06269011
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN	128882
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T0Y487 Z01



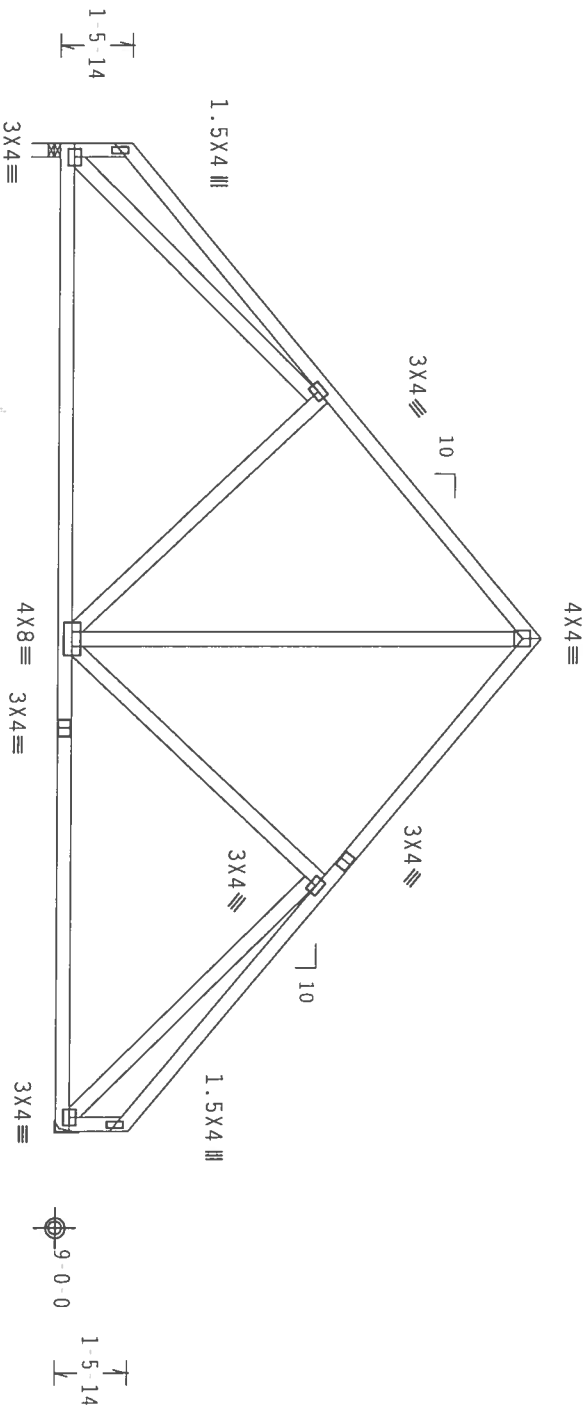
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

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

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



10'-2-0 20'-4-0 Over 2 Supports 10'-2-0  
R=875 U=180 W=3.5"  
R=875 U=180

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), TRUSSING, INSTALLING & BRACING OF TRUSSES, PUBLISHED BY THE NATIONAL TRUSS MANUFACTURING INSTITUTE, 1000 POND DR., SUITE 200, MADISON, WI 53719 AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.) 1100 N. MICHIGAN, CHICAGO, IL 60606. 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.

DESIGN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

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

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A.2.

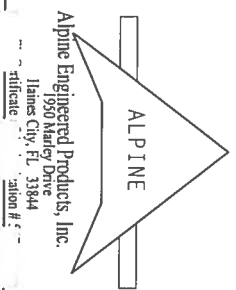
ALL TRUSSES SHALL BE PROVIDED WITH (1) SEAL OR THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



FL/-/4/-/R/-

Scale = .25"/ft.

TC LL	20.0 PSF	REF R487-- 88871
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUSR487 06269008
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 128892
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 110V487_201



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

(A) Continuous lateral bracing equally spaced on member.

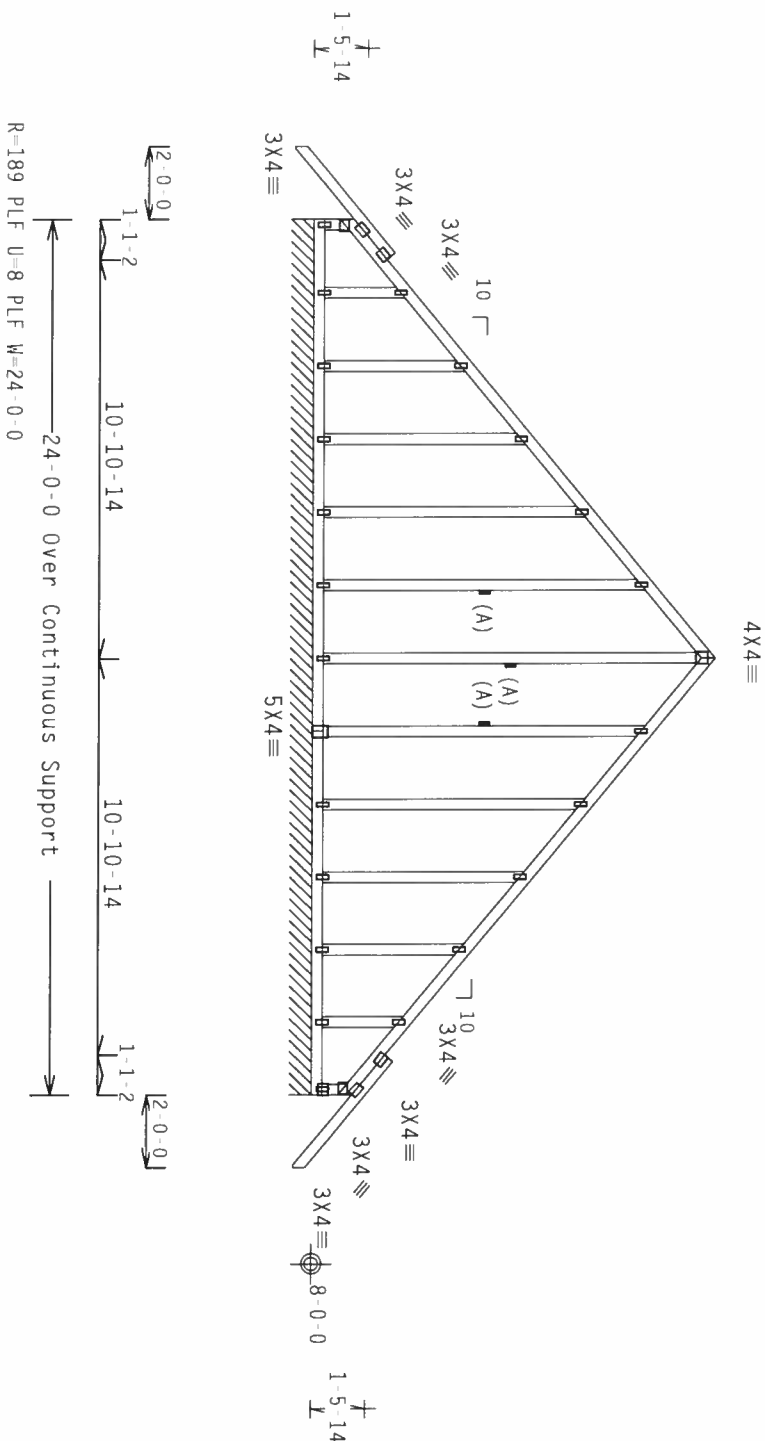
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

See DWGS A11015EE0405 & GBLETTIN0405 for more 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.

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

Fasten rated sheathing to one face of this frame.



Note: All Plates Are 1.5X4 Except As Shown.

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

PLT TYP. Wave

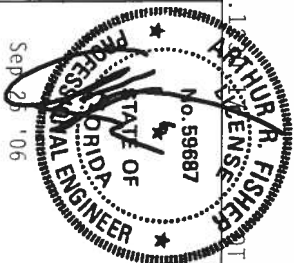
\*WARNING\*—TRISSES REQUIRE EXTERIOR CARE (IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO BC51-103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRISSES PLATE INVENTOR), 5801 D'ORNER DR., SUITE 200, MADISON, MI 48131) AND WICA (WOOD RISKS CONSULT) OF AMERICA, 6300 ENTERPRISE, IN MADISON, MI 52719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UTILITY OFFICIALS 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

Alpine Engineered Products, Inc.

NAME	City, FL	33044	ation #
trifurcate			



FL/-4/-/-/R/-		Scale=.1875"/Ft.
TC LL	20.0 PSF	REF R487-- 88872
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUR487 06269030
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 128962 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T0V487_201

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

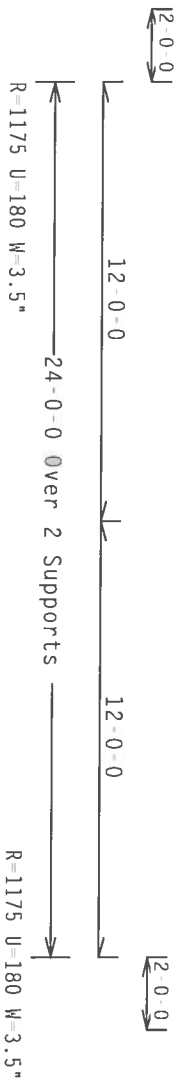
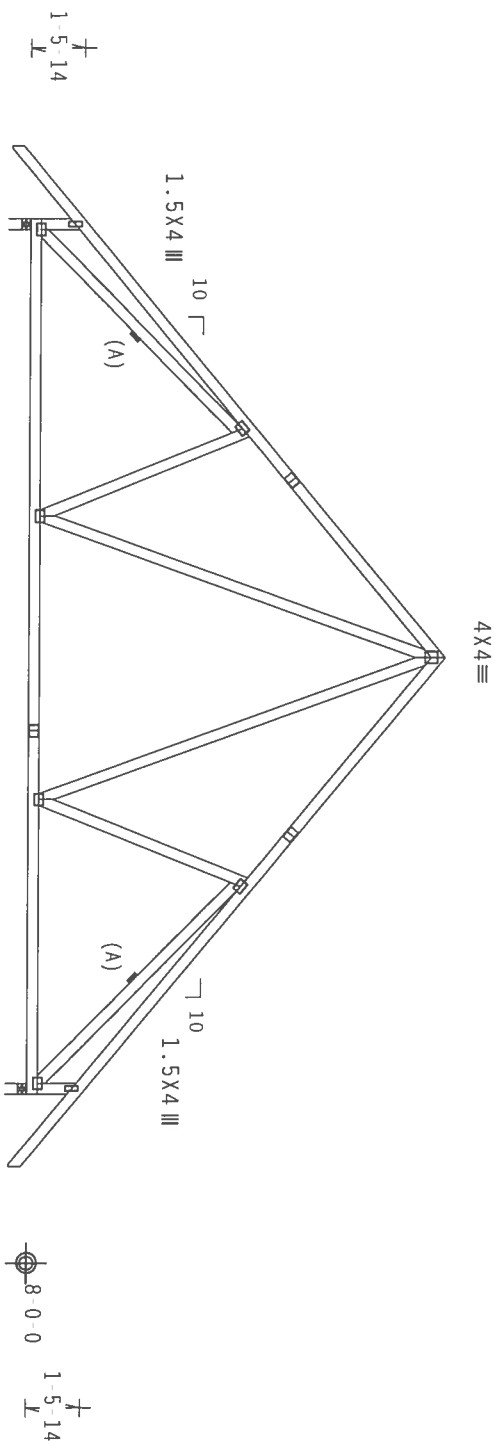
Wind reactions based on MWFRS pressures.

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

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.

(A) Continuous lateral bracing equally spaced on member.

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



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

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

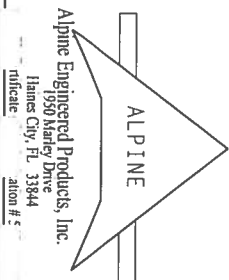
QTY: 1 FL/-/4/-/R/-

Scale = .1875"/ft.

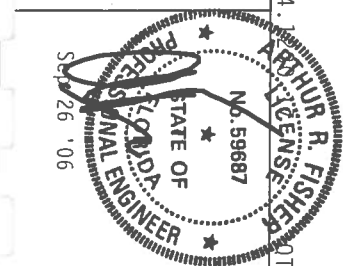
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCST 1.03 (BUILDING COMPONENTS) FOR TRUSS PLATE INSTALLATION, 389 D.000101 DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS FABRICATORS, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/10/16GA (W.4/5/7) ASTM A653 GRADE 40/50 (W. K/H/S) GALV. STEEL. APPLY ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN AS OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING SHALL BE SUFFICIENT FOR PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUBMITTAL OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMST/TPI 1, SEC. 2.



Alpine Engineered Products, Inc.  
1950 Halsey Drive  
Haines City, FL 33844  
Phone # 888-555-5555  
Fax # 888-555-5555



TC LL	20.0 PSF	REF	R487--	88873
TC DL	10.0 PSF	DATE	09/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06269003
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	128950	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF	170V487	201

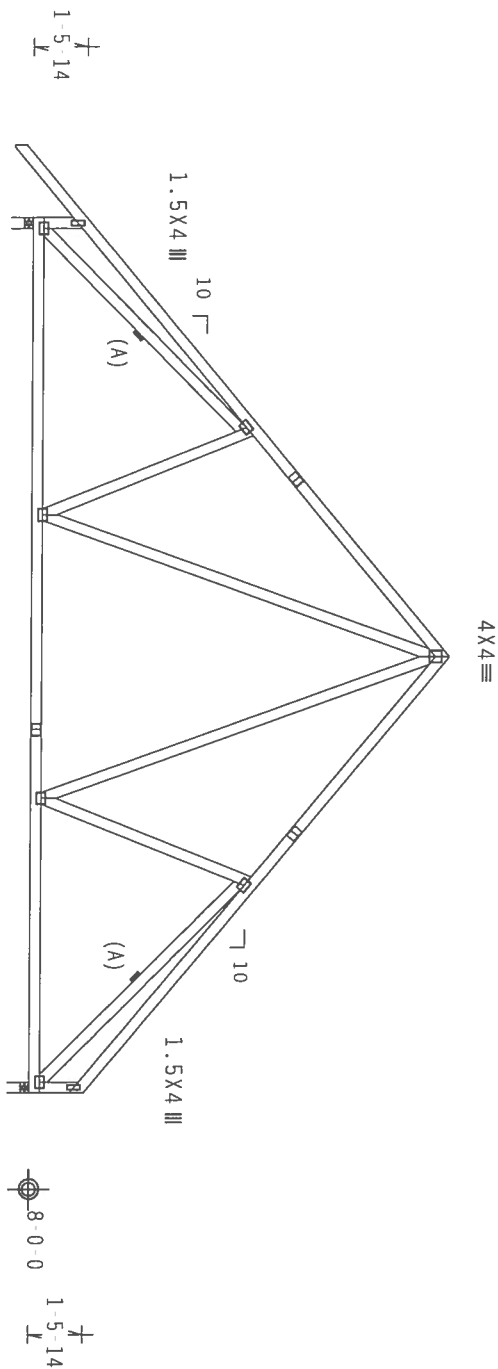
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

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

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

(A) Continuous lateral bracing equally spaced on member.

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

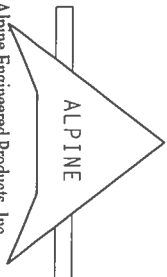


The drawing shows a bridge structure with the following dimensions and features:
 

- Top horizontal dimension: 12-0-0
- Bottom horizontal dimension: 12-0-0
- Span length: 24-0-0
- Support locations: Over 2 Supports
- Left support location: R-1181 U=180 W=3.5"
- Right support location: R-1026 U=180 W=3.5"

Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave



Alpine Engineered Products, Inc.  
1050 MacLean Drive

Haines City, FL 33844  
titulate ration #

11 "WARNING" LABELS REQUIRE EXTERIOR CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING  
12 REFER TO 66251.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSS PAPER INSTITUTE), 503  
13 D'ONORIO DR., SUITE 200, HANSON, MI 47139, AND WPCA (WOOD PROCESS COUNCIL OF AMERICA, 6300 ENTERPRISE LN,  
14 HANSON, MI 47139) FOR SAFETY PRACTICES RELATIVE TO THE USES OF THE PRODUCT. THE USES OF THE PRODUCT INDICATED  
15 FOR CROSS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
16 TOP CHORD SHALLING.

**\*\*IMPORTANT\*\***\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR  
PRODUCTS THE SUELL NOT BE RESPONSIBLE FOR THE QUALITY OF THE INSTALLATION

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

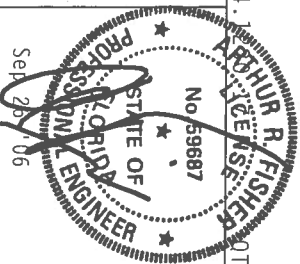
DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF MHS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (H H/5/K) ASTM A653 GRADE 40/60 (H K/H S) GALV STEEL

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 A3 OF IP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACADEMANT OF PROFESSIONAL ENGINEERING REGISTRATION.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE ORDERING INDIVIDUAL. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



FL/-4/-/R/-		Scale=.1875"/ft.
TC LL	20.0 PSF	REF R487 - 88874
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUR487 06269033
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 128954
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T0V487 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.

Shim all supports to solid bearing.

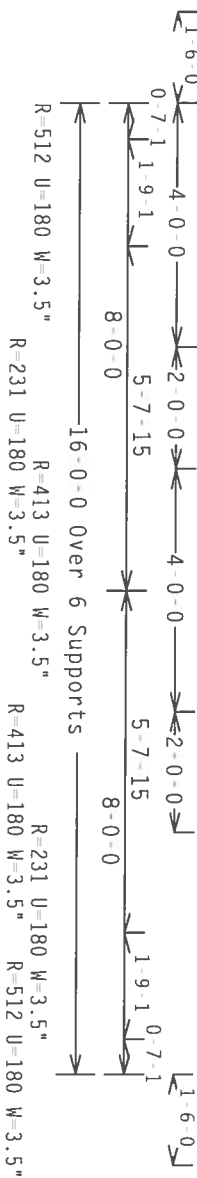
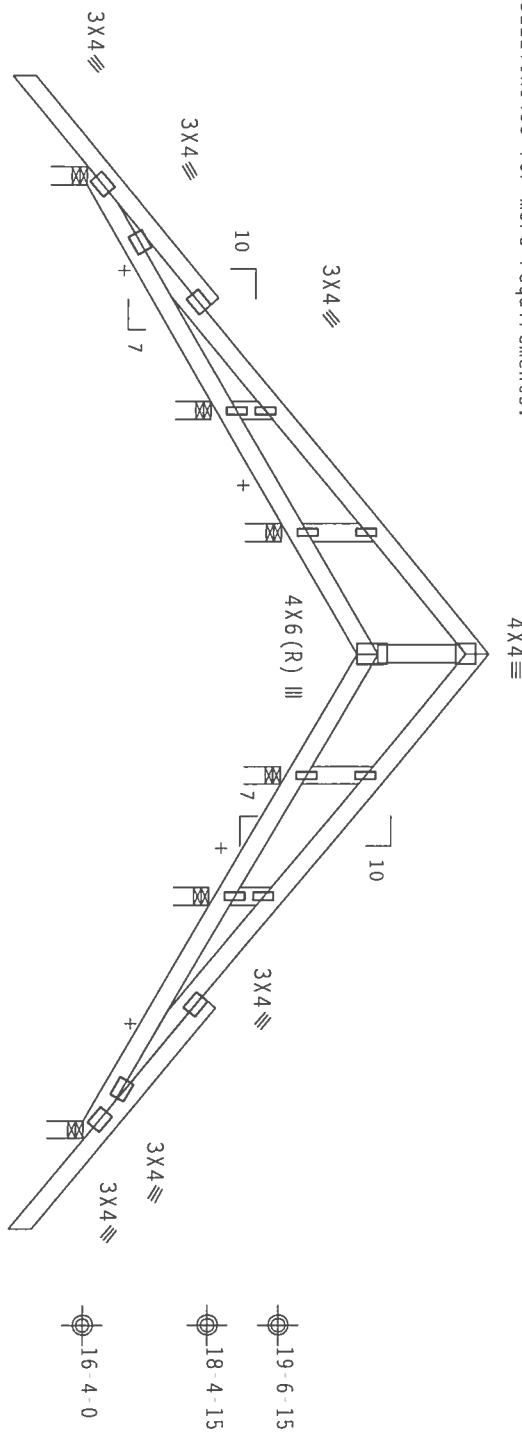
+ MEMBER TO BE Laterally BRACED FOR WIND LOADS PERPENDICULAR TO TRUSS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

110 mph wind, 19.25 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.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



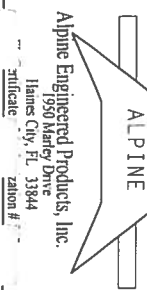
Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

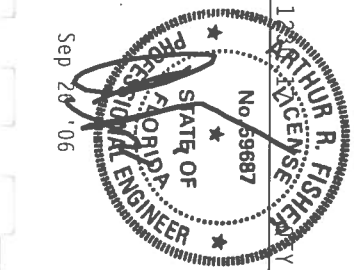
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTERIOR GALT FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE PROTECTED FROM WEATHER. TRUSSES MUST BE STORED IN A DRY AREA. TRUSSES MUST BE HANDLED BY TWO PEOPLE. TRUSSES MUST BE LIFTED BY THE TOP CHORD. TRUSSES MUST BE SUPPORTED BY A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PAI) AND TPI-2002(STD)/FBC. CONSTRUCTION PLATES ARE MADE OF 20/10/16GA (G/H/S/K) ASTM A653 GRADE 40/60 (G, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE SUFFICIENT FOR THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMES/TPI SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PAI) AND TPI-2002(STD)/FBC. CONSTRUCTION PLATES ARE MADE OF 20/10/16GA (G/H/S/K) ASTM A653 GRADE 40/60 (G, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE SUFFICIENT FOR THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMES/TPI SEC. 2.



FL	/	4	/	/	R	/
TC LL		20.0	PSF	REF	R487	88875
TC DL		10.0	PSF	DATE	09/26/06	
BC DL		10.0	PSF	DRW	HCSR487	06269001
BC LL		0.0	PSF	HC-ENG	JB/AF	
TOT.LD.		40.0	PSF	SEQN	128873	REV
DUR.FAC.		1.25				
SPACING		24.0"				

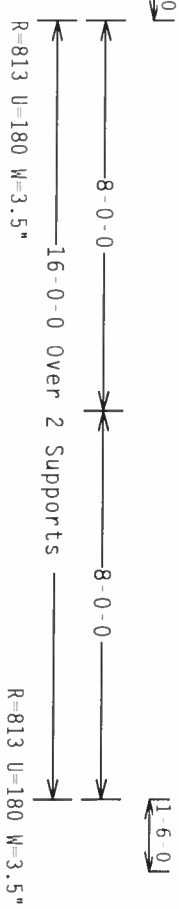
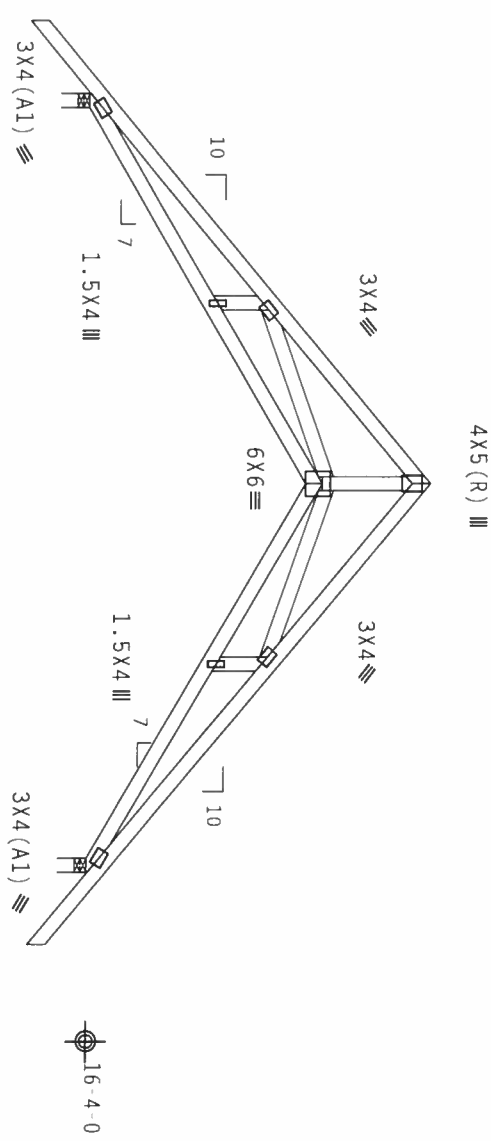
Scale = .3125"/ft.
REF R487 88875
DATE 09/26/06
DRW HCSR487 06269001
HC-ENG JB/AF
SEQN 128873 REV

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 19.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Calculated horizontal deflection is 0.15" due to live load and 0.25" due to dead load.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



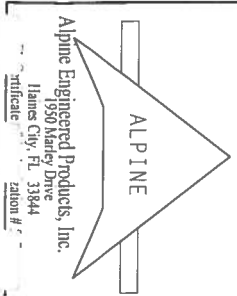
PLT TYP. Wave

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

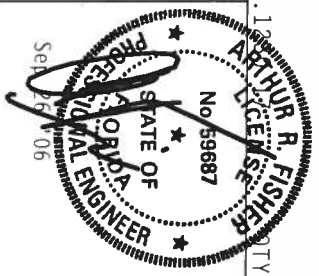
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 53719 FOR SAFETY PRACTICES PRIOR TO PREFABRICATING THESE TRUSSES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.



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

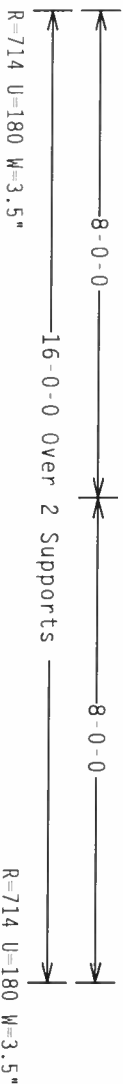


TC LL	20.0 PSF	REF	R487--	88876
TC DL	10.0 PSF	DATE	09/26/06	
BC DL	10.0 PSF	DRW	HCU8R487	06269019
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SECON	128836	
DUR.FAC.	1.25			
SPACING	24.0"			

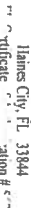
Scale = .25"/ft.



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.



Scale = 3125"/Ft



Sep 26 '06

TC LL	20.0 PSF	REF	R487 - 88877
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCU8R487 06265025
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	128830
DUR.FAC.	1.25		
SPACING	24.0"	JPRFF	1T0V487_201

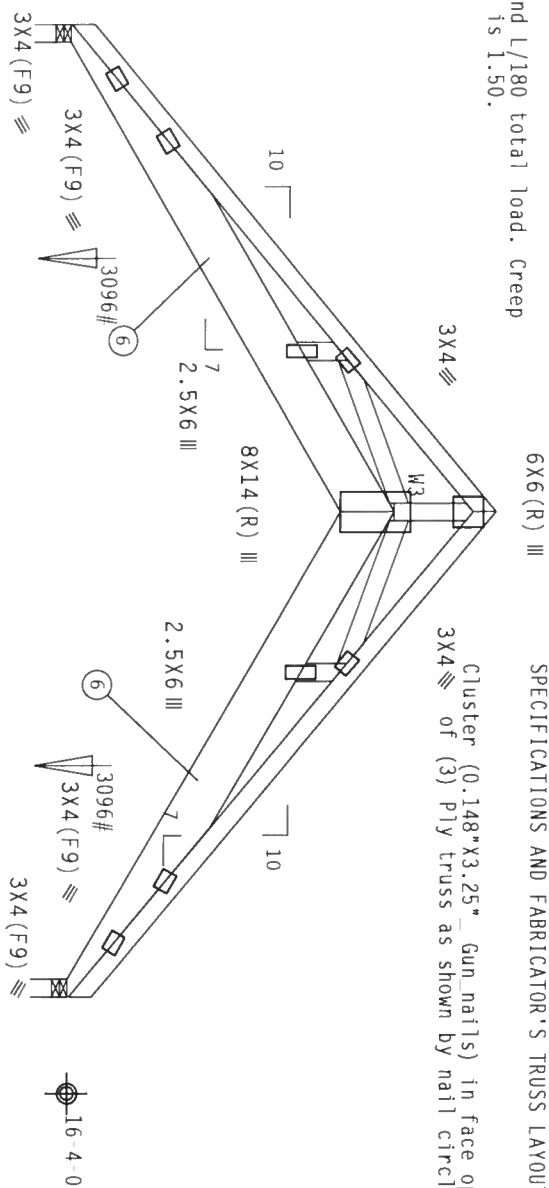
webs 2x4 SP #3 : W3 2x4 SP #2 Dense:

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

3096 LB Conc. Load at 3.83, 12.17

Calculated horizontal deflection is 0.30" due to live load and 0.48" due to dead load.

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



IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND TRUSS FABRICATOR TO REVIEW THIS DWG. PRIOR TO CUTTING LUMBER TO VERIFY THAT ALL DATA, INCLUDING DIMENSIONS AND LOADS, CONFORM TO THE ARCHITECTURAL PLANS/ SPECIFICATIONS AND FABRICATOR'S TRUSS LAYOUT.

### 3 COMPLETE TRUSSES REQUIRED

Top chord:	1 Row	@ 12.00"	0.c.c.
Bot Chord:	1 Row	@ 4.50"	0.c.c.

webs : 1 Row @ 4" o.c.

Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

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.

Cluster (0.148"x3.25" \_ Gun\_nails) in face opposite hanger  
 4 of (3) Ply truss as shown by nail circles.

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

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

7.24.1

FILE: 14-1-1-R/-

$$\text{Scale} = 3125''/\text{ft}$$

TC LL	20.0 PSF	REF	R487 - 88878
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06269013
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN-	129201 REV
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1T0Y487 Z01

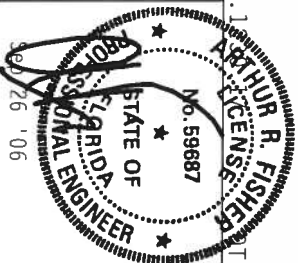

\*WARNING\* ALL TRUCKS REQUIRE EXTERIOR CARGO INFORMATION, HANDLING, SHIPPING, INSURANCE AND BRACING. REFER TO RCCL 1.03 (BUILDING CODES), CARGO SAFETY INFORMATION, PUBLISHED BY IPI (TRUCKS AND TRAILERS), 5300 O'DONOHUE DR., SUITE 200, MADISON, WI 53719, AND NICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE DR., SUITE 100, MADISON, WI 53719, FOR ADDITIONAL INFORMATION. UNLESS OTHERWISE INDICATED, THE 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**

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 UDS (ULTIMATE DESIGN SPEC. BY AISC) AND TPI AIRSIDE ATTACHED.

CONNECTOR PLATES ARE MADE OF 20/16/16GA (W.H./S/K) ASTM A653 GRADE 40/60 (W. K/H./S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16DA 2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES APPROVAL OF CONNECTOR PLATE FABRICATION.

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.

~~Feb 26, 06~~

**ALPINE**  
**Engineered Products, Inc.**  
 Holmes City, FL 33844  
 (950) 446-7000  
 Telex: 154200  
 Cable: ALPINE



Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)

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, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC<sub>0</sub>=DL=5.0 psf, wind BC DL=5.0 psf

Wind reactions based on M/FRS pressures.

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

Truss must be installed as shown with top chord up.

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

1000

TC LL	20.0 PSF	REF	R487 - 88880
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06269010
BC LL	0.0 PSF	HC-ENG	AF/AF
TOT.LD.	40.0 PSF	SEQN	129178
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T0V487 Z01



Design Crit: TPI-2002(STD)/FBC

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

QTY: 1

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

Scale = .5"/Ft.

\*WARNING\*\* \*PASSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO D05-1 (ON BUILDING COMPONENT SAFETY INFORMATION), D06-2 (ON RIGGING), D07-1 (ON ERECTING), D08-1 (ON TRUSS PANELS), D09-1 (ON TRUSS CONNECTIONS), D10-1 (ON TRUSS JOINTS), D11-1 (ON TRUSS BRACING), D12-1 (ON TRUSS DETAILING), D13-1 (ON TRUSS INSULATION), D14-1 (ON TRUSS FINISHES), D15-1 (ON TRUSS MAINTENANCE), D16-1 (ON TRUSS REPAIRS), D17-1 (ON TRUSS REPLACEMENT), D18-1 (ON TRUSS DEMOLITION), D19-1 (ON TRUSS DISPOSAL), D20-1 (ON TRUSS STORAGE), D21-1 (ON TRUSS TRANSPORTATION), D22-1 (ON TRUSS UNLOADING), D23-1 (ON TRUSS LIFTING), D24-1 (ON TRUSS LOWERING), D25-1 (ON TRUSS SETTING), D26-1 (ON TRUSS ANCHORING), D27-1 (ON TRUSS BOLTING), D28-1 (ON TRUSS WELDING), D29-1 (ON TRUSS PAINTING), D30-1 (ON TRUSS CLEANING), D31-1 (ON TRUSS PROTECTIVE COATINGS), D32-1 (ON TRUSS CORROSION PREVENTION), D33-1 (ON TRUSS FIRE PROTECTION), D34-1 (ON TRUSS SEISMIC RETENTION), D35-1 (ON TRUSS VIBRATION CONTROL), D36-1 (ON TRUSS SOUND ATTENUATION), D37-1 (ON TRUSS THERMAL INSULATION), D38-1 (ON TRUSS AIR SEALING), D39-1 (ON TRUSS WEATHER RESISTANCE), D40-1 (ON TRUSS DURABILITY), D41-1 (ON TRUSS LONGEVITY), D42-1 (ON TRUSS RELIABILITY), D43-1 (ON TRUSS SAFETY), D44-1 (ON TRUSS QUALITY), D45-1 (ON TRUSS PERFORMANCE), D46-1 (ON TRUSS EFFICIENCY), D47-1 (ON TRUSS COST EFFECTIVENESS), D48-1 (ON TRUSS SUSTAINABILITY), D49-1 (ON TRUSS ENVIRONMENTAL FRIENDLINESS), D50-1 (ON TRUSS SOCIAL RESPONSIBILITY), D51-1 (ON TRUSS ETHICAL CONDUCT), D52-1 (ON TRUSS TRANSPARENCY), D53-1 (ON TRUSS ACCOUNTABILITY), D54-1 (ON TRUSS INTEGRITY), D55-1 (ON TRUSS HONESTY), D56-1 (ON TRUSS FAIRNESS), D57-1 (ON TRUSS RESPECT), D58-1 (ON TRUSS KINDNESS), D59-1 (ON TRUSS PATIENCE), D60-1 (ON TRUSS HUMILITY), D61-1 (ON TRUSS GRACE), D62-1 (ON TRUSS MERCY), D63-1 (ON TRUSS COMPASSION), D64-1 (ON TRUSS GENTLENESS), D65-1 (ON TRUSS MILDNESS), D66-1 (ON TRUSS SELF-CONTROL), D67-1 (ON TRUSS TEMPERANCE), D68-1 (ON TRUSS MODERATION), D69-1 (ON TRUSS BALANCE), D70-1 (ON TRUSS ORDER), D71-1 (ON TRUSS CLEANLINESS), D72-1 (ON TRUSS NEATNESS), D73-1 (ON TRUSS ORGANIZATION), D74-1 (ON TRUSS DISCIPLINE), D75-1 (ON TRUSS DEDICATION), D76-1 (ON TRUSS COMMITMENT), D77-1 (ON TRUSS PERSEVERANCE), D78-1 (ON TRUSS ENDURANCE), D79-1 (ON TRUSS STAMINA), D80-1 (ON TRUSS COURAGE), D81-1 (ON TRUSS BRAVERY), D82-1 (ON TRUSS CONFIDENCE), D83-1 (ON TRUSS SELF-BELIEF), D84-1 (ON TRUSS POSITIVE THINKING), D85-1 (ON TRUSS OPTIMISM), D86-1 (ON TRUSS HOPE), D87-1 (ON TRUSS FAITH), D88-1 (ON TRUSS LOVE), D89-1 (ON TRUSS AGAPE), D90-1 (ON TRUSS PHILADELPHIA), D91-1 (ON TRUSS STEARNS), D92-1 (ON TRUSS BONDAGE), D93-1 (ON TRUSS FREEDOM), D94-1 (ON TRUSS JUSTICE), D95-1 (ON TRUSS PEACE), D96-1 (ON TRUSS UNITY), D97-1 (ON TRUSS COMMUNITY), D98-1 (ON TRUSS TEAMWORK), D99-1 (ON TRUSS COOPERATION), D100-1 (ON TRUSS SYNERGY).

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

FAHREND, S. J., INC., HAS BEEN SELECTED FOR THE DESIGN AND CONSTRUCTION OF A BRIDGE TO BE BUILT OVER THE RIVER IN CONFORMANCE WITH TPI. THE PROJECT WILL INVOLVE THE FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF AASHTO NATIONAL DESIGN SPEC. BY AIA/S S. J. FAHREND, S. J., INC. CONNECTOR PLATES ARE MADE OF 20/80/16GGA (W/H/5/2). ALL STEEL SHALL BE A572 GR 50.

PLATES TO EACH FACE OF JOISTS 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 IP11:2002 SEC.3.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF INSPECTION. ENGINEERING ACCEPTANCE SHALL BE INDICATED BY A SEAL ON THIS

OWNING FIRM'S ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SAFETY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/FP1 1 SEC. 2.

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
Certification # \_\_\_\_\_

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

Wind reactions based on MMFRS pressures.

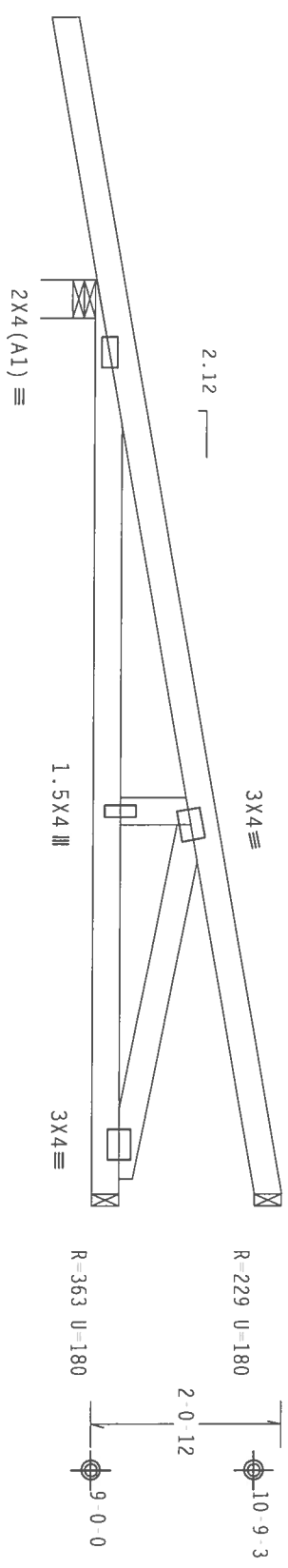
Hipjack supports 7'-0" setback jacks with no webs.

Provide ( 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.



2-9-15  
R=527 U=180 W=4.95\*  
9-10-13 Over 3 Supports

PLT TYP. Wave

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



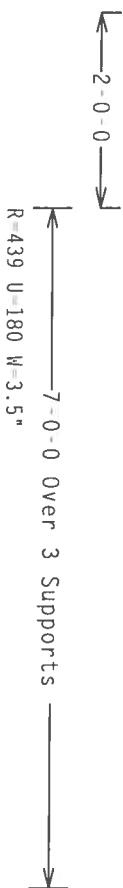
Scale = 5"/ft.

ALPINE		ALPINE	
Alpine Engineered Products, Inc.		Alpine Engineered Products, Inc.	
1950 Manley Drive		1950 Manley Drive	
Haines City, FL 33844		Haines City, FL 33844	
Certificate		Certificate	
Station #		Station #	
TYP. 1		TYP. 1	
FL / - / 4 / - / - / R / -		FL / - / 4 / - / - / R / -	
TC LL		20.0 PSF	REF R487 - 88881
TC DL		10.0 PSF	DATE 09/26/06
BC DL		10.0 PSF	DRW HCUR487 06269014
BC LL		0.0 PSF	HC-ENG JB/AF
TOT. LD.		40.0 PSF	SEGN - 15586
DUR. FAC.		1.25	
SPACING		24.0"	
JREF - 1T0V487_201		JREF - 1T0V487_201	

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

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

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



Scale = .5"/Ft.

James City, FL 33844  
rtificate ation #:

ALPINE ENGINEERED

Sep 26 '06

TC LL	20.0 PSF	REF	R487 - 88882
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06265018
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	15577
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T0Y487 Z01



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

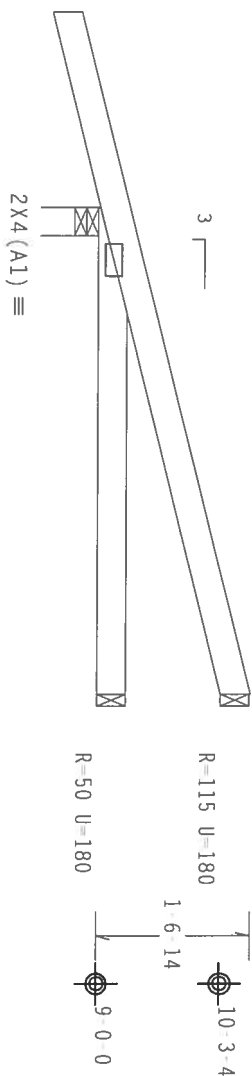
Wind reactions based on MMFRS pressures.

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 purllins to brace TC @ 24" OC, BC @ 24" OC.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24

TY:1

FL/-/4/-/R/-

Scale = 5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03, INCLUDING COMPONENT SAFETY FACTORS, TRUSS SIZES, TRUSS PLATE INSTITUTION, 503, 07000010 DR., SUITE 200, MADISON, WI 53719, AND AISC 340-10, 10.10.1.1, 10.10.1.2, 10.10.1.3, 10.10.1.4, 10.10.1.5, 10.10.1.6, 10.10.1.7, 10.10.1.8, 10.10.1.9, 10.10.1.10, 10.10.1.11, 10.10.1.12, 10.10.1.13, 10.10.1.14, 10.10.1.15, 10.10.1.16, 10.10.1.17, 10.10.1.18, 10.10.1.19, 10.10.1.20, 10.10.1.21, 10.10.1.22, 10.10.1.23, 10.10.1.24, 10.10.1.25, 10.10.1.26, 10.10.1.27, 10.10.1.28, 10.10.1.29, 10.10.1.30, 10.10.1.31, 10.10.1.32, 10.10.1.33, 10.10.1.34, 10.10.1.35, 10.10.1.36, 10.10.1.37, 10.10.1.38, 10.10.1.39, 10.10.1.40, 10.10.1.41, 10.10.1.42, 10.10.1.43, 10.10.1.44, 10.10.1.45, 10.10.1.46, 10.10.1.47, 10.10.1.48, 10.10.1.49, 10.10.1.50, 10.10.1.51, 10.10.1.52, 10.10.1.53, 10.10.1.54, 10.10.1.55, 10.10.1.56, 10.10.1.57, 10.10.1.58, 10.10.1.59, 10.10.1.60, 10.10.1.61, 10.10.1.62, 10.10.1.63, 10.10.1.64, 10.10.1.65, 10.10.1.66, 10.10.1.67, 10.10.1.68, 10.10.1.69, 10.10.1.70, 10.10.1.71, 10.10.1.72, 10.10.1.73, 10.10.1.74, 10.10.1.75, 10.10.1.76, 10.10.1.77, 10.10.1.78, 10.10.1.79, 10.10.1.80, 10.10.1.81, 10.10.1.82, 10.10.1.83, 10.10.1.84, 10.10.1.85, 10.10.1.86, 10.10.1.87, 10.10.1.88, 10.10.1.89, 10.10.1.90, 10.10.1.91, 10.10.1.92, 10.10.1.93, 10.10.1.94, 10.10.1.95, 10.10.1.96, 10.10.1.97, 10.10.1.98, 10.10.1.99, 10.10.1.100, 10.10.1.101, 10.10.1.102, 10.10.1.103, 10.10.1.104, 10.10.1.105, 10.10.1.106, 10.10.1.107, 10.10.1.108, 10.10.1.109, 10.10.1.110, 10.10.1.111, 10.10.1.112, 10.10.1.113, 10.10.1.114, 10.10.1.115, 10.10.1.116, 10.10.1.117, 10.10.1.118, 10.10.1.119, 10.10.1.120, 10.10.1.121, 10.10.1.122, 10.10.1.123, 10.10.1.124, 10.10.1.125, 10.10.1.126, 10.10.1.127, 10.10.1.128, 10.10.1.129, 10.10.1.130, 10.10.1.131, 10.10.1.132, 10.10.1.133, 10.10.1.134, 10.10.1.135, 10.10.1.136, 10.10.1.137, 10.10.1.138, 10.10.1.139, 10.10.1.140, 10.10.1.141, 10.10.1.142, 10.10.1.143, 10.10.1.144, 10.10.1.145, 10.10.1.146, 10.10.1.147, 10.10.1.148, 10.10.1.149, 10.10.1.150, 10.10.1.151, 10.10.1.152, 10.10.1.153, 10.10.1.154, 10.10.1.155, 10.10.1.156, 10.10.1.157, 10.10.1.158, 10.10.1.159, 10.10.1.160, 10.10.1.161, 10.10.1.162, 10.10.1.163, 10.10.1.164, 10.10.1.165, 10.10.1.166, 10.10.1.167, 10.10.1.168, 10.10.1.169, 10.10.1.170, 10.10.1.171, 10.10.1.172, 10.10.1.173, 10.10.1.174, 10.10.1.175, 10.10.1.176, 10.10.1.177, 10.10.1.178, 10.10.1.179, 10.10.1.180, 10.10.1.181, 10.10.1.182, 10.10.1.183, 10.10.1.184, 10.10.1.185, 10.10.1.186, 10.10.1.187, 10.10.1.188, 10.10.1.189, 10.10.1.190, 10.10.1.191, 10.10.1.192, 10.10.1.193, 10.10.1.194, 10.10.1.195, 10.10.1.196, 10.10.1.197, 10.10.1.198, 10.10.1.199, 10.10.1.200, 10.10.1.201, 10.10.1.202, 10.10.1.203, 10.10.1.204, 10.10.1.205, 10.10.1.206, 10.10.1.207, 10.10.1.208, 10.10.1.209, 10.10.1.210, 10.10.1.211, 10.10.1.212, 10.10.1.213, 10.10.1.214, 10.10.1.215, 10.10.1.216, 10.10.1.217, 10.10.1.218, 10.10.1.219, 10.10.1.220, 10.10.1.221, 10.10.1.222, 10.10.1.223, 10.10.1.224, 10.10.1.225, 10.10.1.226, 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Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

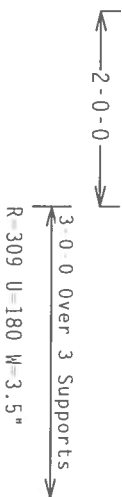
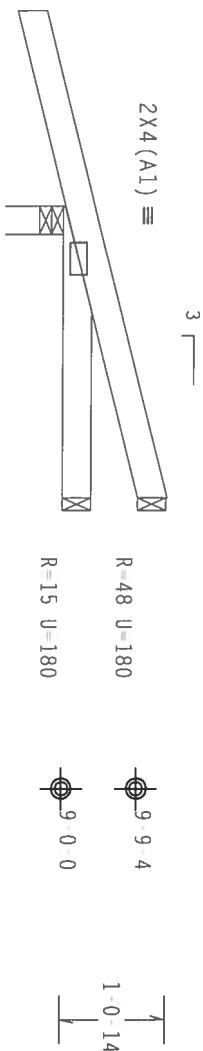
Wind reactions based on MWFRS pressures.

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, 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 purllins to brace TC @ 24" OC, BC @ 24" OC.

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



PLT TYP. Wave

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

7.24.1

QTY:1

FL/-14/-1/-R/-

Scale = .5"/ft.

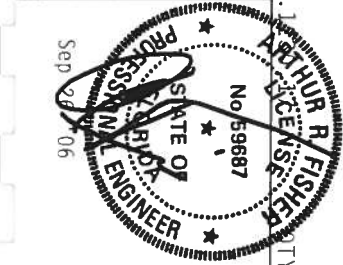
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUILDING CODE OF AMERICA, 1190 LEXINGTON DRIVE, SUITE 200, HANOVER, NH 03755, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUILDING CODE OF AMERICA, 1190 LEXINGTON DRIVE, SUITE 200, HANOVER, NH 03755, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUILDING CODE OF AMERICA, 1190 LEXINGTON DRIVE, SUITE 200, HANOVER, NH 03755, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUILDING CODE OF AMERICA, 1190 LEXINGTON DRIVE, SUITE 200, HANOVER, NH 03755, 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.



TC LL	20.0 PSF	REF	R487--	88884
TC DL	10.0 PSF	DATE	09/26/06	
BC DL	10.0 PSF	DRW	HCUR487	06269016
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SEQN-	15564	
DUR.FAC.	1.25			
SPACING	24.0"			

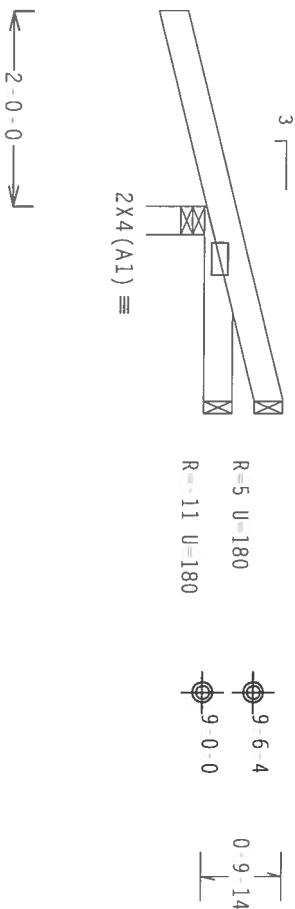
JPRFF-170V4R7\_201

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

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

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

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)

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

7.24.1

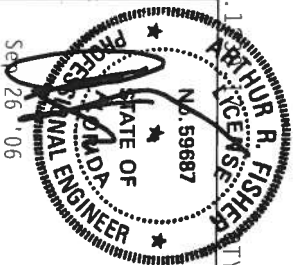
F11-141-1-1R1-

Scale = 5" / Ft

Alpine Engineered Products, Inc.

Haines City, FL 33844

THE CONTRACTOR SHALL FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, AND FAILURE TO BUILD THE DESIGN AS SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASHRAE/ASHRAE 90.1-2005 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 88885
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	H05R487 06269017
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	15570
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T0V487_201

REF ID: A77070

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.

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##1 hip supports 7-0-0 jacks with no webs.
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 $Cq/RT=1.00(1.25)/10(0) \quad 7.24$ 

Scale = .5" / Ft.

Haines City, FL 33844  
Certificate # : 00000000000000000000

ALPINE ENGINEERD

### RESPONSIBILITY OF THE

FL/4/-/R/-

JRFF - ITQVΔR7\_Z01



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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

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

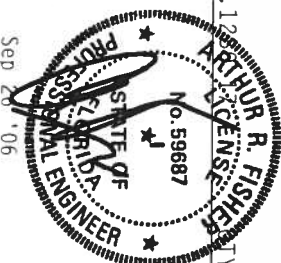
7.24.1

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

Scale = .5"/Ft.

Alpine Engineered Products, Inc.

Haines City, FL 33844  
Certificate # 33844



TC LL	20.0 PSF	REF	R487 - - 88888
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06269006
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	15638
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T0V487 Z01



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

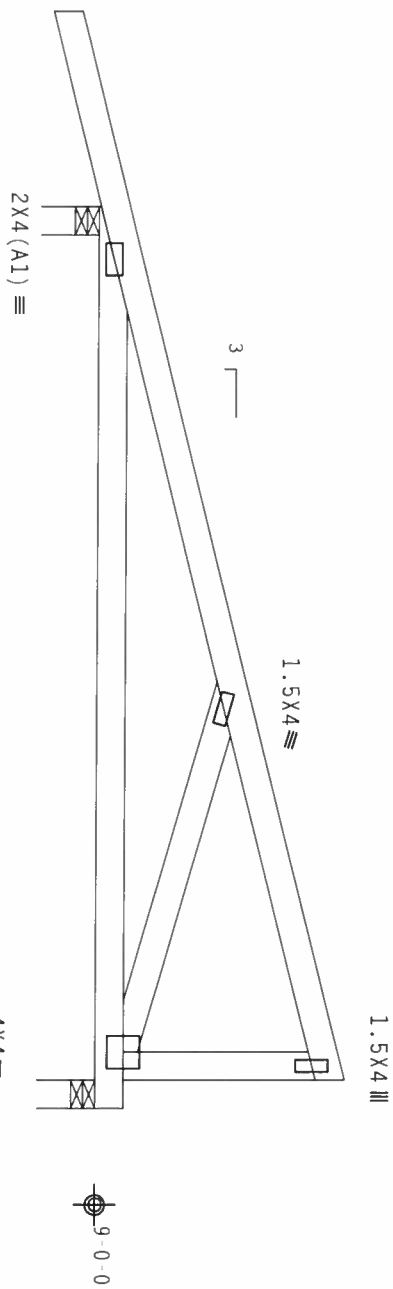
Wind reactions based on MWFRS pressures.

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

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.



2-0-0

9-3-8 Over 2 Supports

R=335 U=180 W=3.5"

PLT TYP. Wave

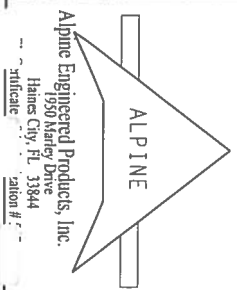
Design Crit: TPI-2002(STD)/FBC

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

7.24.12

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

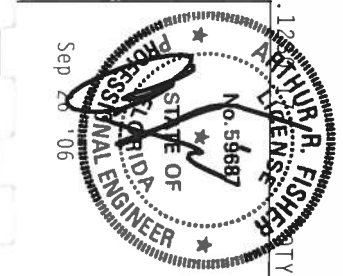
Scale = .5"/ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BEST 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 1505 D'ORVILLE DR., SUITE 200, HADISON, NJ 07719) AND AISC (STEEL CONSTRUCTION, 5300 MARKET ST., HADISON, NJ 07719) 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. 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 (STEEL CONSTRUCTION, 5300 MARKET ST., HADISON, NJ 07719) AND AISC (STEEL CONSTRUCTION, 5300 MARKET ST., HADISON, NJ 07719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



TC LL	20.0 PSF	REF R487-- 88889
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUR487 06269004
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 15657
DUR.FAC.	1.25	
SPACING	24.0"	





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

Right end vertical not exposed to wind pressure.

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


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

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

Scale = .5" / Ft.

1  
ARTHUR R. FISHER  
LICENSE  
No 59687  
1

FE



ESNOMIA E



Sep 20 1906

2

REF	R487 -	88892
DATE	09/26/06	
DRW	HCSUR487	06269026
HC-ENG	JB/AF	
SEQN -	128929	
JRFF	170Y487	Z01

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

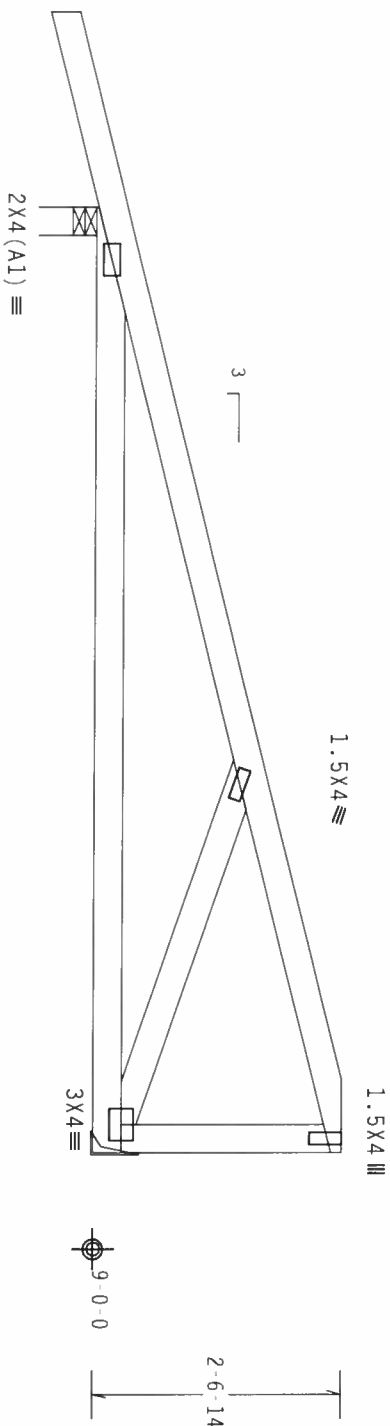
Wind reactions based on MMFRS pressures.

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

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.



2-0-0

R=544 U=180 W=3.5"

R=372 U=180

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

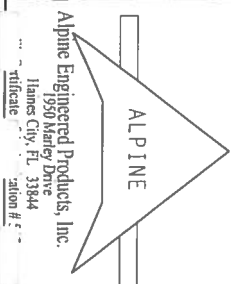
QTY:1 FL/-/4/-/R/-

Scale=.5"/ft.

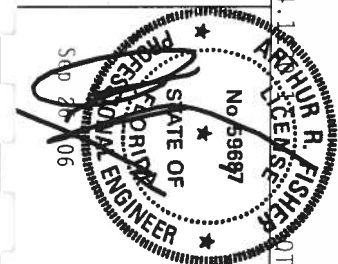
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), BUILDING CODES, LOCAL ORDINANCES, AND AIAA 1000 TRUSS CONSTRUCTION, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/P) ASH 6053 GRADE 40/60 (H, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. POSITION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 4A OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2C.



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



TC LL	20.0 PSF	REF R487--	88893
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW HCUSR487	06269027
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT.LD.	40.0 PSF	SEQN-	128934
DUR.FAC.	1.25		
SPACING	24.0"		

JREF-170VAR7\_201

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

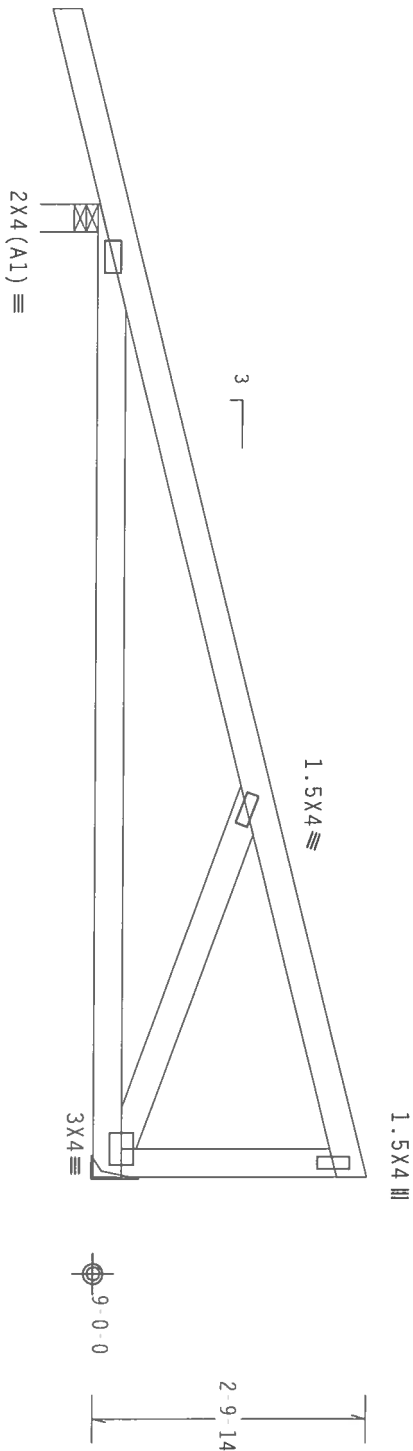
Wind reactions based on MWFRS pressures.

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

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.



PLT TYP. Wave

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

DATE: 11/24/06

FL/-/4/-/R/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESI 1.03 INCLUDING COMPONENT SAFETY INFORMATION. THIS TRUSS IS DESIGNED FOR A DESIGN WIND SPEED OF 110 MPH (157.19) AND WIND AREA TRUSS CONNECTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE

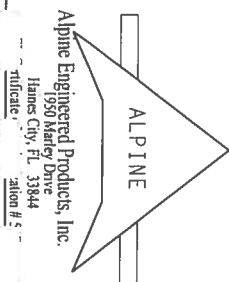
CONNECTION PLATES ARE MADE OF 20/18/16GA (W/4/5/5) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA 2.

POSITION OF PLATES FOLLOWED BY (1) SHALL BE PER AIAA 43 OF TPI 2002 SEC.3.3. A SEAL ON THIS

DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	88894
TC DL	10.0 PSF	DATE	09/26/06	
BC DL	10.0 PSF	DRW	HCSR487	06269009
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SEQN-	15631	
DUR.FAC.	1.25			
SPACING	24.0"	JPRF	110V487	201

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

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

Wind reactions based on MMFRS pressures.

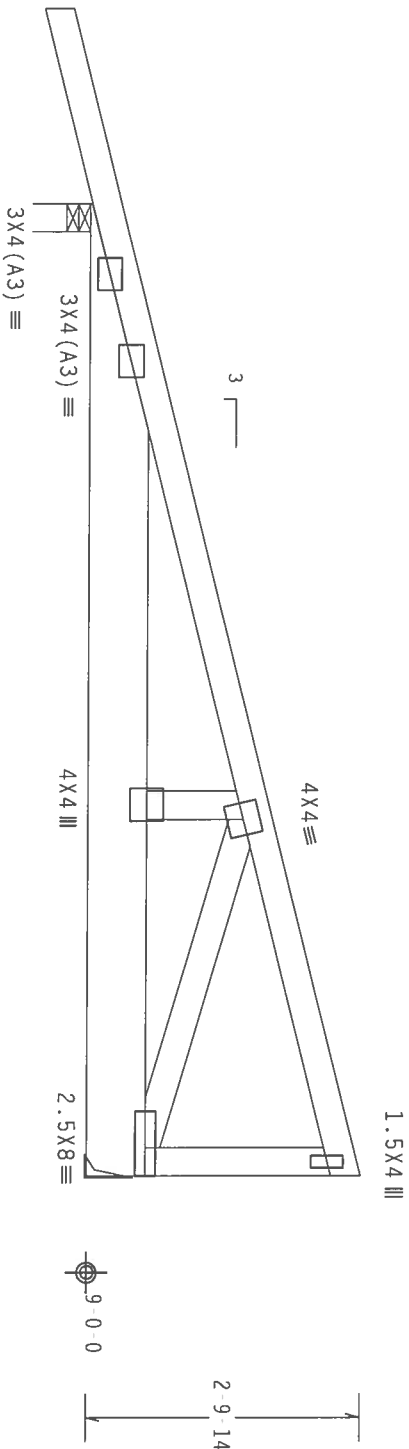
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

SPECIAL LOADS

----- (LUMBER DUR.FAC. 1.25 / PLATE DUR.FAC. 1.25)  
TC - From 61 PLF at 2.00 to 61 PLF at 10.00  
BC - From 4 PLF at 2.00 to 4 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 10.00  
BC - 927 LB Conc. Load at 7.06  
BC - 382 LB Conc. Load at 9.06

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.



2'-0"-0"

R=879 U=180 W=3.5"

10'-0"-0 Over 2 Supports

R=1366 U=180

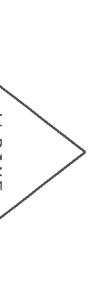
PLT TYP. Wave

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

PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 59687  
R. R. FISHER

FL/-/4/-/R/-

Scale = .5"/ft.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone # 888-255-1111

\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR GART IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BEST 1-03, BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF BRIDGE ENGINEERS, 1505  
D'AMORE DR., SUITE 200, MADISON, WI 53719 AND AISC 360-10 BRIDGE DESIGN GUIDE, 40/60 (4, 8, 10, 12) GALV. STEEL. APPLY  
MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.  
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 360-10 BRIDGE DESIGN GUIDE, 40/60 (4, 8, 10, 12) GALV. STEEL. APPLY  
CONNECTION PLATES ARE MADE OF 20/18/16GA (4, 8, 10, 12) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2  
AND 160B-2. UNLESS OTHERWISE LOCATED OR (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS  
DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 59687  
R. R. FISHER

TC LL	20.0 PSF	REF R487-- 88895
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUR487 06269007
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEON- 15618
DUR. FAC.	1.25	
SPACING	24.0"	
JRFF- 1T0V487_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.


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

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

Scale = .5"/ft.

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

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2 ANY INSPECTION OF PLATES FOLLOWED BY A QUALITY CHECK SHALL BE PERFORMED AT 100%.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSTEES CONDOREX

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE USER. CONSULT WITH AN ARCHITECT FOR THE CROSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

100

TC LL	20.0 PSF	REF	R487 - 88896
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCSR487 06269022
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	128806
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T0Y487 201

170VΔR7\_Z01-JRFF-



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

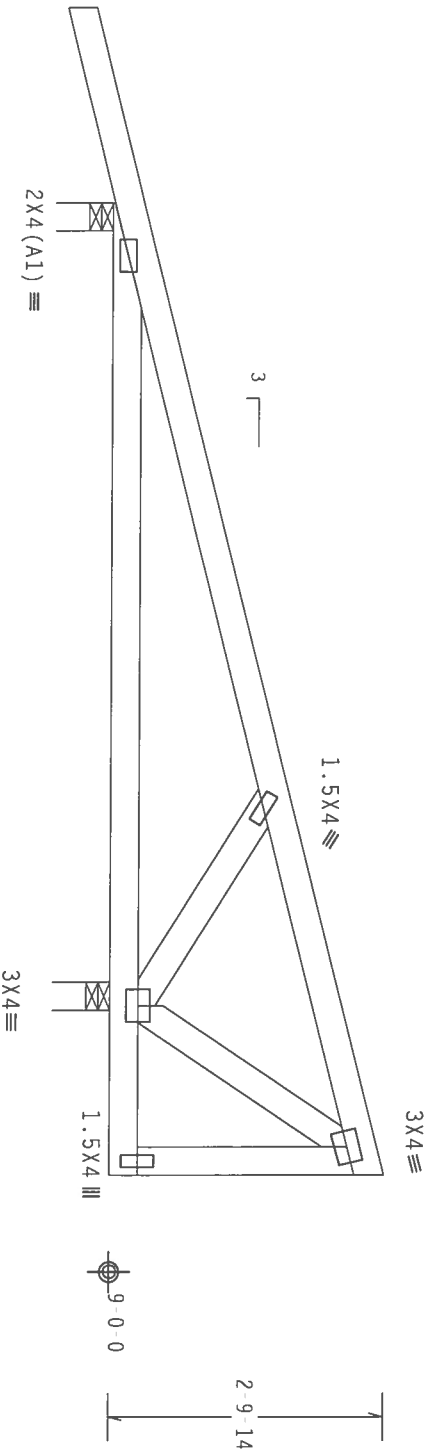
Wind reactions based on MMFRS pressures.

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

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

Right end vertical not exposed to wind pressure.

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



2'-0'-0"

R=471 U=180 W=3.5"

10'-0'-0" Over 2 Supports

R=465 U=180 W=3.5"

1'-8'-8"

PLT TYP. Wave

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

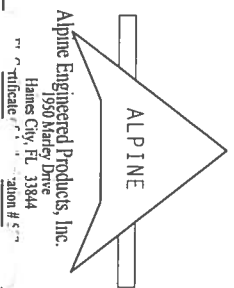
7.24.12

FL/-/4/-/R/-

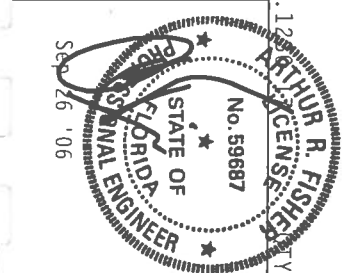
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS COUNCIL OF AMERICA, 3000 ENTERPRISE DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA) 3000 ENTERPRISE DR., SUITE 200, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR CONSTRUCTION WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PAI AND TPI) SHALL BE THE RESPONSIBILITY OF THE INSTALLER AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 100A-2. ANY INSPECTION OF TRUSSES SHOULD BE MADE BY THE TRUSS MANUFACTURER AS OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone: 888-222-2222  
Fax: 888-222-2222  
Email: sales@alpineeng.com  
Website: www.alpineeng.com



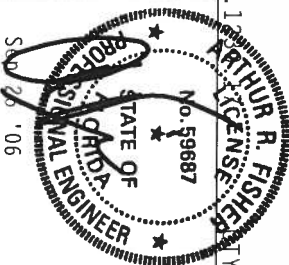
TC LL	20.0 PSF	REF	R487-88897
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCSR487 06269021
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	128823
DUR.FAC.	1.25		
SPACING	24.0"		

JRFF-170V487-201

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.



1920 Marley Drive  
Haines City, FL 33844  
Certificate # \_\_\_\_\_



TC LL	20.0 PSF	REF	R487 -	88898
TC DL	10.0 PSF	DATE	09/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06269020
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	128815	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1T0V487	201

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

:Stack Chord SCI 2x4 SP #2 Dense:

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Stacked top chord must NOT be notched or cut in area (NML).

Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

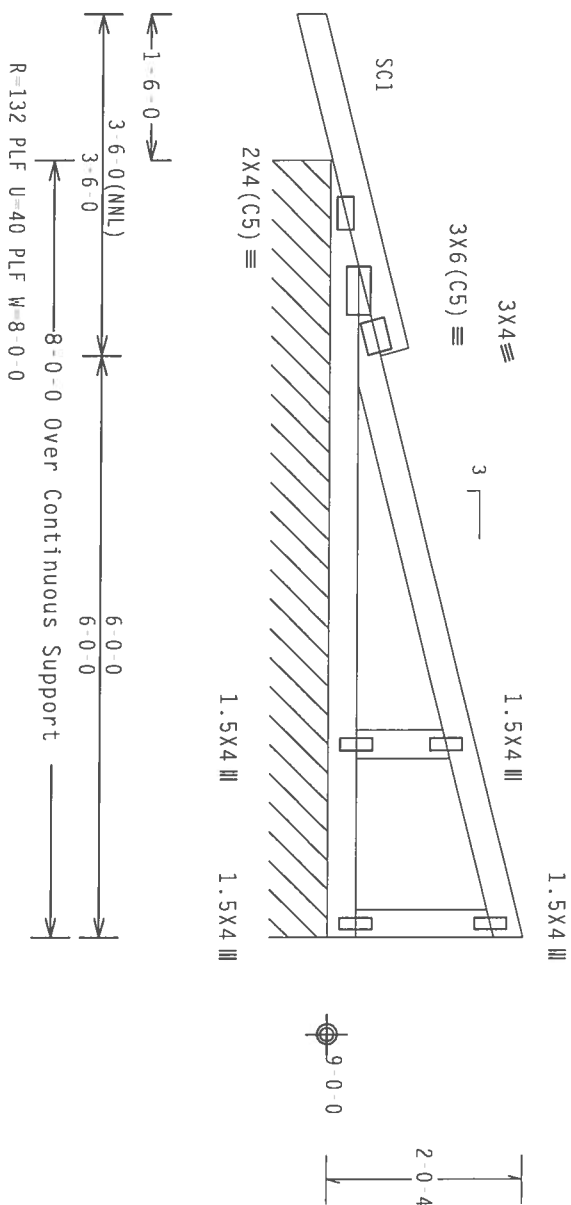
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

ARTHUR R. FISHER

FL/-/4/-/R/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

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

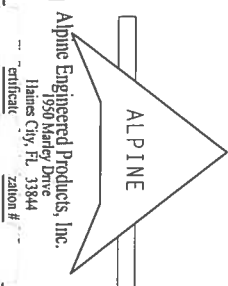
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Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 61 PLF at 0.00 to 61 PLF at 10.00  
BC - From 20 PLF at 0.00 to 20 PLF at 10.00  
BC - 875 LB Conc. Load at 0.23, 2.23, 4.23, 6.23, 8.23

Wind reactions based on MWFRS pressures.

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

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

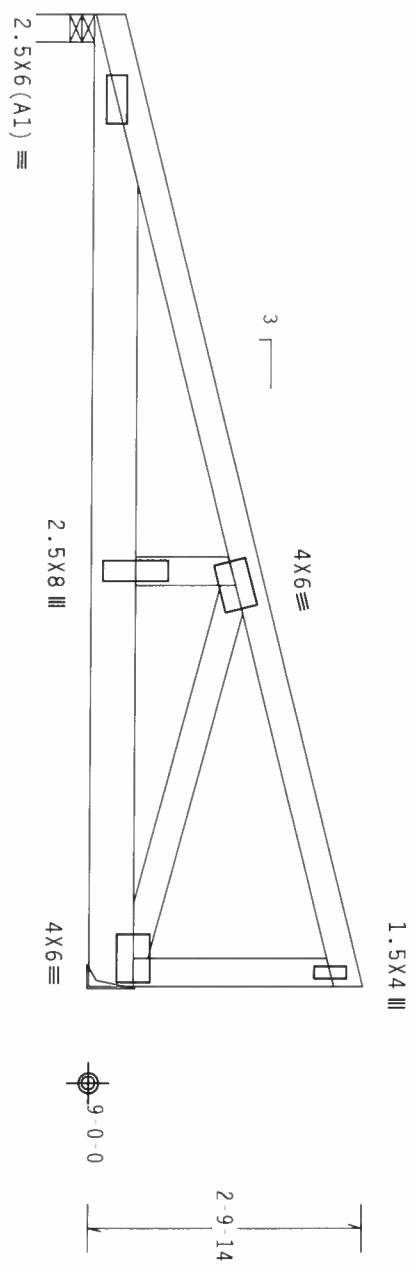
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)

Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @4.25" 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, 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.



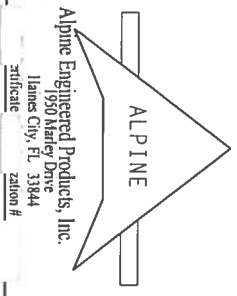
PLT TYP. Wave

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

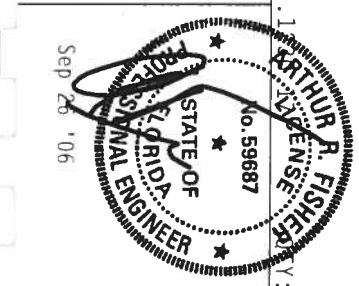
\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RS&I 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL ASSOCIATION OF TRUSS MANUFACTURERS, 1000 MADISON, MI 48119 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. CONNECTION PLATES ARE MADE OF 70/18/16GA (K/H/S/K) ASH 6053 GRADE 40/60 (K, K/H/S) GALV. STEEL. APPLY MINIMUM 1000 PSI OF TENSION TO ALL BOLTS. PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. SEC. 2.



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



TC LL	20.0 PSF	REF R487 - 88900
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUR487 06269012
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEQN - 128909
DUR. FAC.	1.25	

Scale = .5"/ft.  
SPACING 24.0"  
DATE 11/04/07\_201

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

110 mph wind, 24.52 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=1.2 psf.

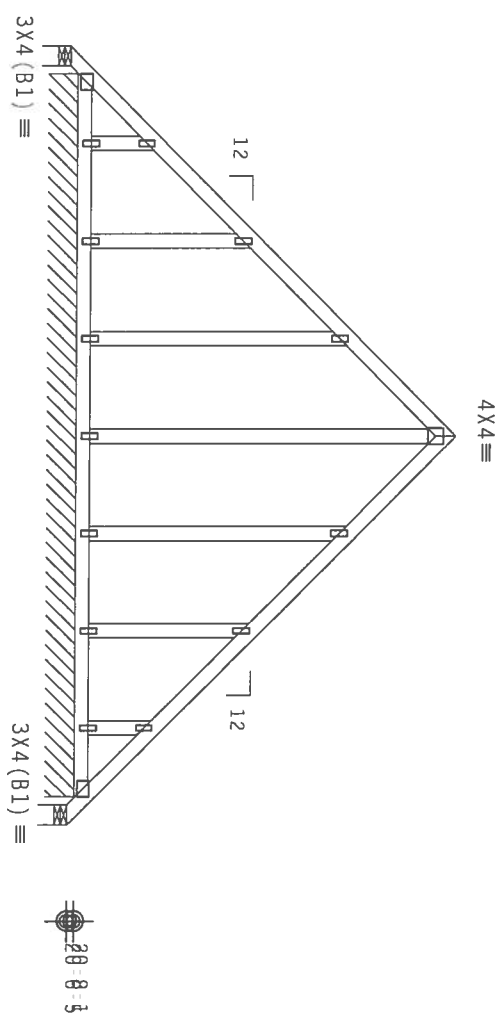
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

**SPECIAL LOADS**  
LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25  
TC - From 68 PLF at 0.00 to 68 PLF at 16.00  
BC - From 4 PLF at 0.00 to 4 PLF at 16.00

Wind reactions based on MWFRS pressures.

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



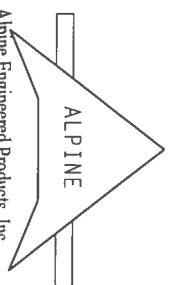
R=19 U=180 W=4.95"  
R=73 PLF U=27 PLF W=14 10 2  
R=19 U=180 W=4.95"

Note: All Plates Are 1.5X4 Except As Shown.

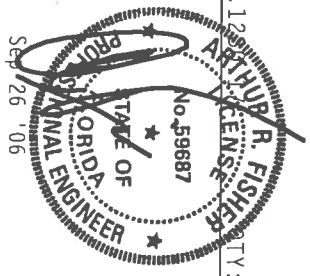
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.12

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION) OF THE 2003 PLATE INSTITUTE, 563 D'ORFORD DR., SUITE 200, MADISON, MI 48719) AND WICK (2000 TRUSS CONNECTOR) OF WICKS 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, CONNECTOR PLATES ARE MADE OF 20/18/10GA (W/H/S/K) ASH 4653 GRADE 40/60 (W, K/H/S) GALV. STEEL. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE THE DESIGNER OF RECORD FOR THIS DESIGN. POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES AND TRUSSES SHALL BE PERFORMED BY THE TRUSS COMPONENT MANUFACTURER. ACCEPTANCE OF PERFORMANCE RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Manley Drive  
Haines City, FL 33844  
Certificate # 12047



FL / - / 4 / - / - / R / -		Scale = .25" / Ft.	
TC LL	20.0 PSF	REF	R487 - 88901
TC DL	10.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06269005
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEGN	128799
DUR. FAC.	1.25		
SPACING	24.0"		
DATE	11/04/07		201

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

110 mph wind, 24.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC  
DL=5.0 psf, wind BC DL=1.2 psf.

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

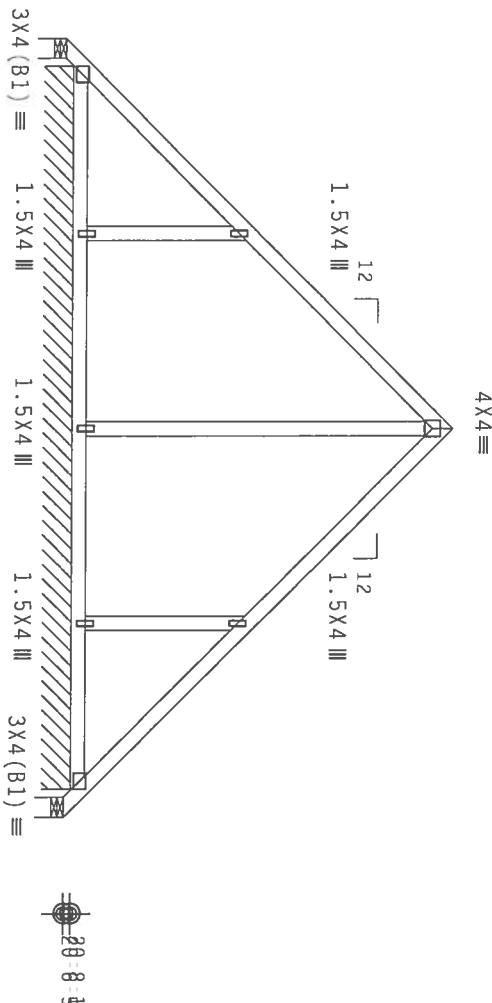
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 68 PLF at 0.00 to 68 PLF at 16.00  
BC - From 4 PLF at 0.00 to 4 PLF at 16.00

Wind reactions based on MMFRS pressures.

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

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



R= 27 U=202 W=4.95"

R=80 PLF U=34 PLF W=14-10-2

R= 27 U=180 W=4.95"

PLT TYP. Wave

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

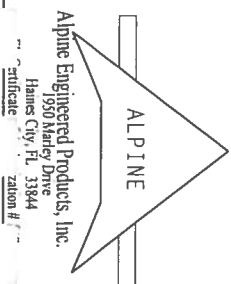
QTY: 1 FL/-/4/-/R/-

Scale = .25"/ft.

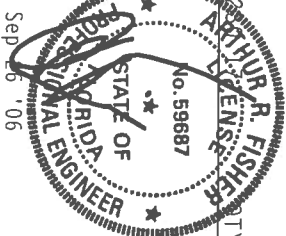
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSS 1.03 (BUILDING COMPONENT SAFETY), UNIFORM BUILDING CODES, 583 (WOODEN BR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS CONSTRUCTION, 1998) FOR SAFETY PRACTICES PRIOR TO PERFORMING 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 CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (ADDITIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (K. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 43 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. SHOULD THE USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMER/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Manley Drive  
Haines City, FL 33844  
Certificate of Designation #

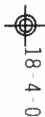


SPACING	24.0"	REF	R487-- 88902
TC LL	20.0 PSF	DATE	09/26/06
BC DL	10.0 PSF	DRW	HCSR487 06269034
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN	128795
DUR. FAC.	1.25		

110 mph wind, 20.05 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


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.


$$\sqrt{1-0-0}$$

R=443 U=180 W=3.5"

Scale = .5"/Ft.



Alpine Engineered Products, Inc.

James City, FL 33844  
 Certificate # 33844

ALPINE ENGINEERS  
TO BUILD THE  
TRUSSES  
ALPINE  
STEEL

ARTHUR R. FISHER  
 LICENSE  
 No. 59687  
 STATE OF  
 FLORIDA  
 PROFESSIONAL ENGINEER

SEP 26 '06

TC LL	20.0 PSF	REF	R487 -	88903
TC DL	10.0 PSF	DATE	09/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06269032
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	15626	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1T0V487	Z01

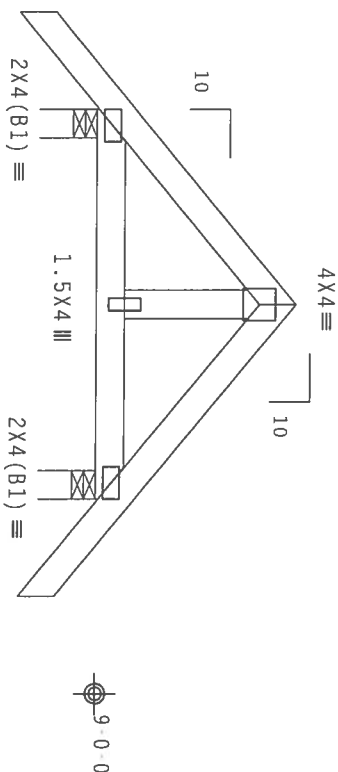
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

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

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



1'-0" 0" 2'-0" 0" 2'-0" 0" 1'-0" 0"

4'-0" 0" Over 2 Supports →  
R-243 U=180 W=3.5"  
R-243 U=180 W=3.5"

PLT TYP. Wave

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

7.24

QTY: 8

FL/-/4/-/R/-

Scale = .5"/ft.

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P&S) AND TPI. ALPINE TRUSSES ARE MADE OF 20/10/10GA (W/H/S/E) ASTM A663 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH OF PLATES FOLLOWED BY THE TRUSS ASSOCIATION, 6300 ENTERPRISE DR., SUITE 200, MADISON, WI 53719. ANY INSPECTION OF TRUSSES SHALL BE LOCATED FOR THIS DESIGN, POSITION PER DRAWINGS FROM 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. 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

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

Professional Engineer  
License # 10000



QTY: 8

FL/-/4/-/R/-

Scale = .5"/ft.

TC LL	20.0 PSF	REF R487 - 88904
TC DL	10.0 PSF	DATE 09/26/06
BC DL	10.0 PSF	DRW HCUSR487 06269002
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT. LD.	40.0 PSF	SEON- 128792
DUR. FAC.	1.25	
SPACING	24.0"	

DATE 11/04/07\_201



# CLB WEB BRACE SUBSTITUTION

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

## NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.  
ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

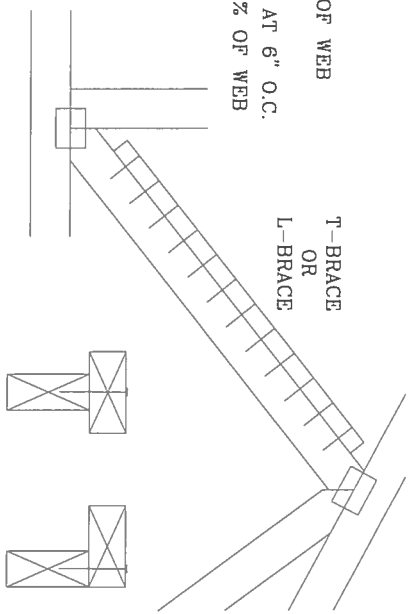
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

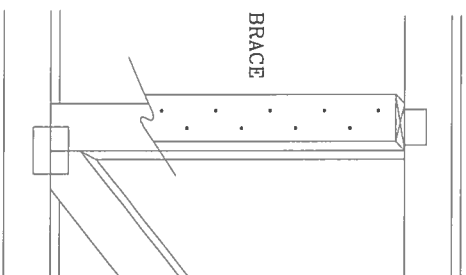
## T-BRACING OR L-BRACING:

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



## SCAB BRACING:

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



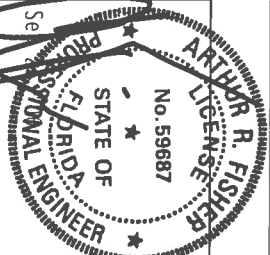
THIS DRAWING REPLACES DRAWING 579,640

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

\*\*VARIATIONS\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS DESIGN AND CONSTRUCTION. THE FOLLOWING TRUSS DESIGNER'S SEAL IS REQUIRED FOR ALL TRUSSES DESIGNED BY ALPINE ENGINEERED PRODUCTS, INC. FOR THE PURPOSES OF THE NATIONAL DESIGN SPEC. OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

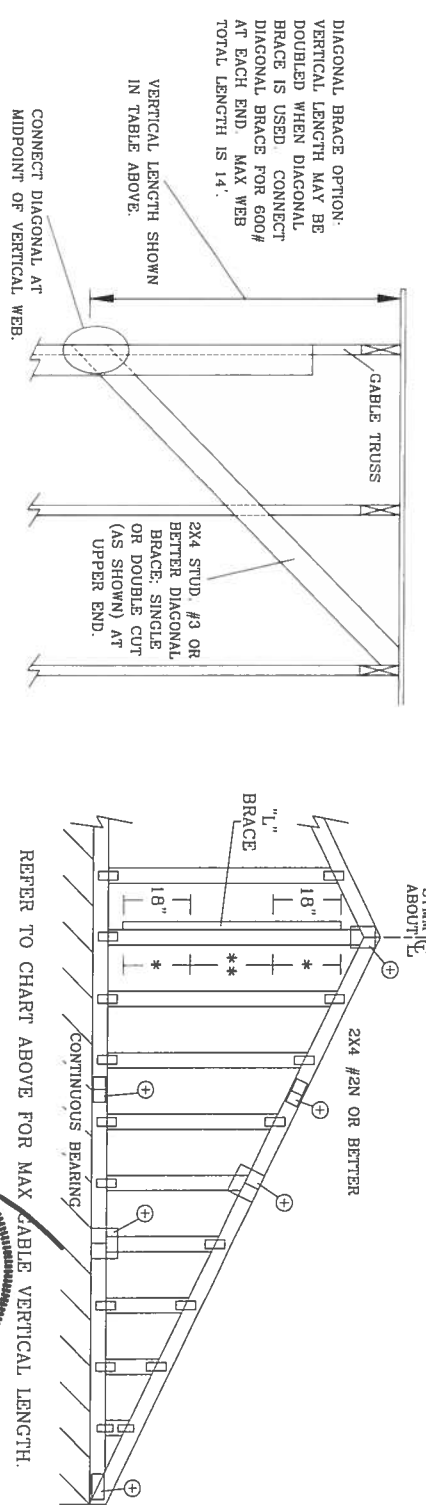
\*\*IMPORTANT\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BRACE THE TRUSSES CORRECTLY, WITH TPI, OR FOR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING THE TRUSSES. THE TRUSSES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE 40/60 (A/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPEC. BY AEPD AND TPI. ALPINE CONNECTOR PLATES ARE REQUIRED TO BE USED. ALL TRUSSES SHALL BE GRADE 40/60 (A/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPEC. ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (I) 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



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCB SUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

2X4 GABLE VERTICAL SPECIES		BRACE		NO BRACES		(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
SPACING	GRADE	BRACE	NO	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"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	8' 1"	9' 5"	9' 8"	12' 4"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	8' 1"	9' 5"	9' 8"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#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"
16" O.C.	SPF	#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"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	SPF	#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"
		STUD	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"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#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"
		#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"
12" O.C.	DFL	#3	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#1 / #2	4' 11"	8' 5"	8' 5"	10' 3"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	DFL	STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	DFL	STUD	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REVISIONS

REF	ASCE7-02-CAB11015
DATE	04/15/05
DRWG	A11015EE0405
ENG	

ARTHUR R. FISHER  
No. 59687  
FLORIDA  
PROFESSIONAL ENGINEER

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

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE 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' O.C. IN 16" END ZONES AND 4" O.C. BETWEEN ZONES.

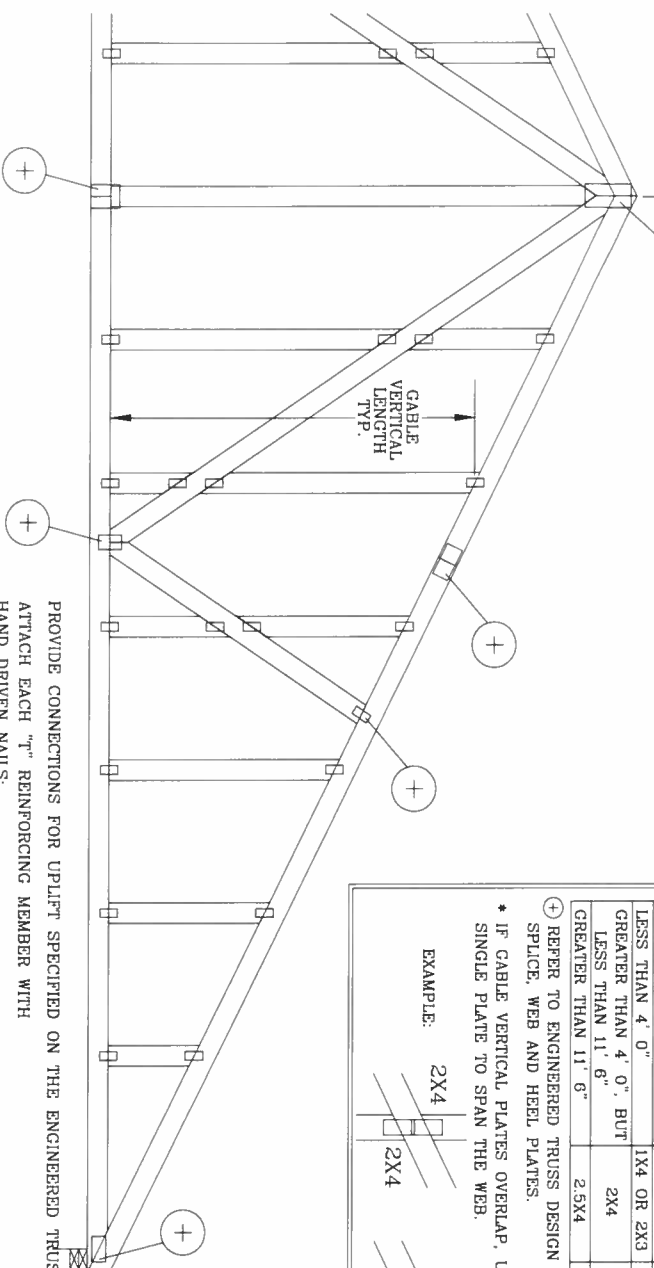
\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE 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.

SYM.  $\oplus$   
ABOUT  $\oplus$



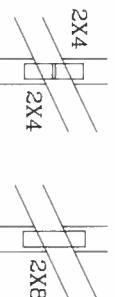
### CABLE VERTICAL PLATE SIZES

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, SPICE, WEB AND HEEL PLATES.

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

### EXAMPLE



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 ASCE OR SBCI WIND LOAD.

ASCE 7-93 CABLE DETAIL. DRAWINGS

A11030ENI103, A10030ENI103, A09030ENI103, A08030ENI103, A07030ENI103  
A11032ENI103, A10032ENI103, A09032ENI103, A08032ENI103, A07032ENI103

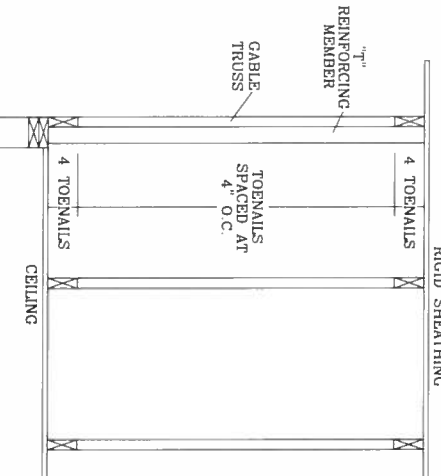
ASCE 7-98 CABLE DETAIL DRAWINGS

AL000007041000 AL000007041000 AL000007041000 AL000007041000

ASCE 7-02 CABLE DETAIL DRAWINGS

AL3030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCC WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.



\*\*\*\*\*WARNING\*\*\*\*\*  
 THESESS RECOVER EXTREME CARE IN FABRICATING, HANDING, SHIPPING, INSTALLING AND  
 BRACING. REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS  
 PLATE INSTITUTE, 583 DONORF RD., 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.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

\*\*\*IMPORTANT\*\*\* A TRUE AND CORRECT COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERING & DESIGN, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR APPLICABLE HANDING, SHIPPING, INSTALLATION & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY ALPINE AND TPI. ALL STEEL CONNECTOR PLATES ARE MADE OF 20/81/66GA (U/S/5/5) ASTM A563 GRADE 50. ALL STEEL PLATES TO EACH FACE OF TRUSS AND C/CHS OTHERWISE LOCATED ON BOTH SIDES DESIGN SUBSTITUTION PER 1609.2. ALL INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMANENT AT OF TPI 1-800-252-7222. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS CONSTRUCTION, INSTALLATION, PERMANENT SEC. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE BUILDING DESIGNER, PER ASU/TPI. SEC. 2

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

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

WEB LENGTH INCREASE W/ "T" BRACE

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

### EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

"J" REINFORCING MEMBER SIZE = 2X

1 BRACE INCREASE (FROM ABOVE) = 10% = 1.10

$$1.10 \times 6' 7'' = 7' 3''$$

NG REPLACES DRAWINGS CAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLETTIN0405
-ENG	DLJ/KAR

MAX TOT. LD. 60 PSF

DUR. FAC. ANY

MAX SPACING 24.0"

# PIGGYBACK DETAIL

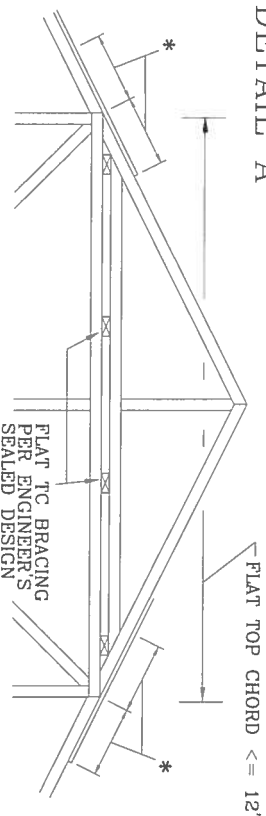
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG.  
LOCATED ANYWHERE IN ROOF, CAT II, EXP C,  
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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

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

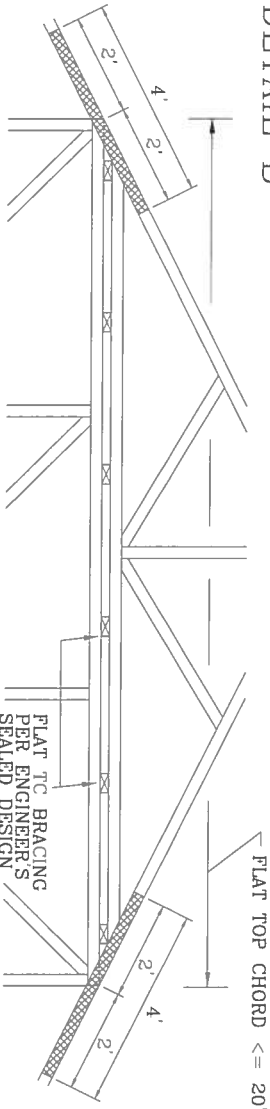
NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

## DETAIL A



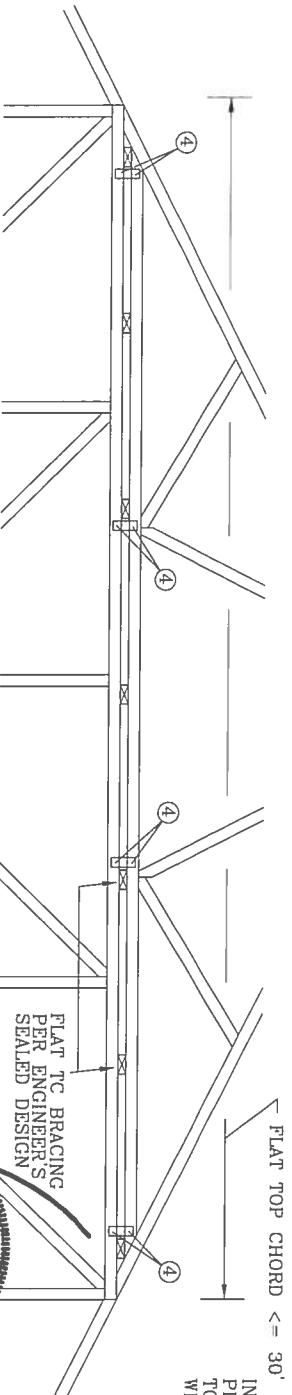
\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131" x 2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

## DETAIL B



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

## DETAIL C



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.

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		ALPINE ENGINEERED PRODUCTS, INC. POMPAHO BEACH, FLORIDA	
***WARNING*** 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, 593 DINDORF 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 OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.		***IMPORTANT*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA C/H/S/KS ASTM A653 GRADE 50/60 C/H/S/KS GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY ANNOTATION, APPLY TO EACH FACE OF TRUSS. THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE DESIGN DECISION SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2	
TC LL	PSF	REF	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.

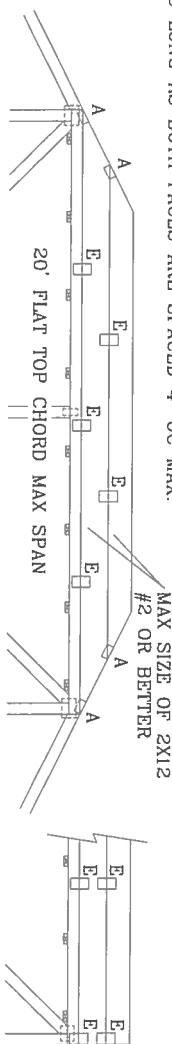
ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

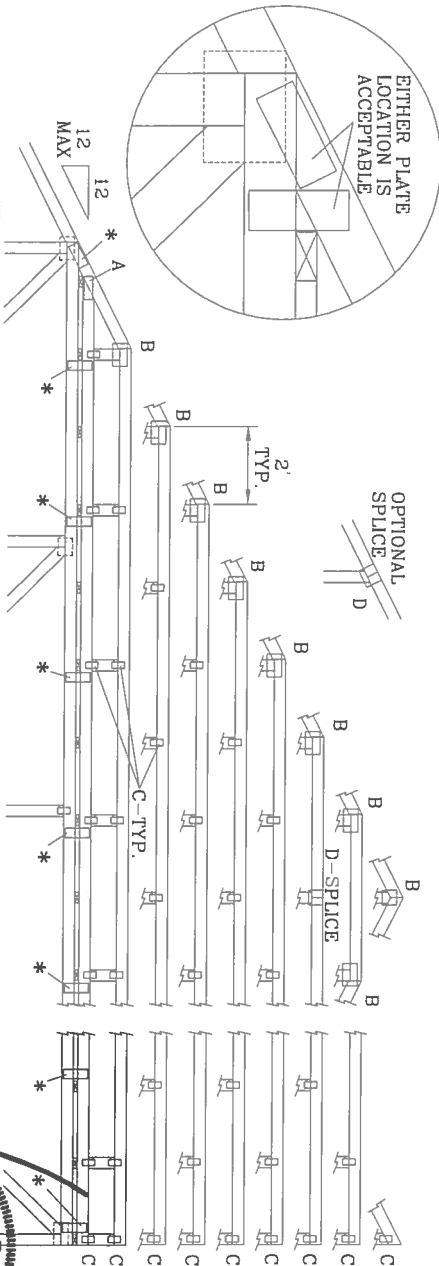
- 130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF
- 110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

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



EITHER PLATE LOCATION IS ACCEPTABLE

OPTIONAL SPLICE



ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

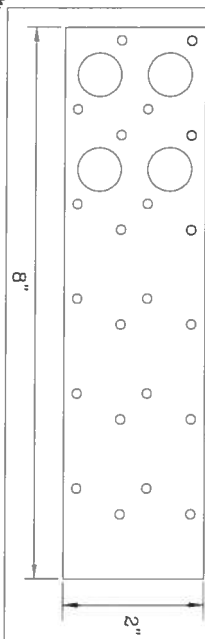
(4) 6d BOX (0.099" X 2", MIN) NAILS.  
"8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES. ATTACH WITH (8) 6d BOX (0.099" X 2", MIN) NAILS PER GUSSET.  
(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

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

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB LENGTH	WEB BRACING CHART
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.

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.



MAX LOADING

55 PSF AT  
1.33 DUR. FAC.

50 PSF AT  
1.25 DUR. FAC.

47 PSF AT  
1.15 DUR. FAC.

SPACING 24.0"

REF PIGGYBACK

DATE 04/14/05

DRWG PIGBACKB0405

ENG DLJ/KAR

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA



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