

# 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: ISZH487-Z0104151744

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-268--Glenwood King Gray -- , \*\*  
Truss Count: 98

Model Code: Florida Building Code 2004

Truss Criteria: ANSI/TPI-2002(STD)/FBC

Engineering Software: Alpine Software, Version 7.24.

Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC

Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

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

Details: CNBRGBLK-BRCLBSUB-A11015EE-GBLLETIN-PIGBACKA-PIGBACKB-A11030EE-

Seal Date: 08/04/2006

-Truss Design Engineer-  
Arthur R. Fisher

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

#	Ref	Description	Drawing#	Date
1	67615--A1		06216006	08/04/06
2	67616--A2		06216007	08/04/06
3	67617--A3		06216008	08/04/06
4	67618--A4		06216009	08/04/06
5	67619--A5		06216010	08/04/06
6	67620--A7		06216011	08/04/06
7	67621--A8		06216012	08/04/06
8	67622--A9		06216013	08/04/06
9	67623--A10		06216014	08/04/06
10	67624--A11		06216015	08/04/06
11	67625--A12		06216017	08/04/06
12	67626--A13		06216038	08/04/06
13	67627--A14		06216018	08/04/06
14	67628--A15		06216019	08/04/06
15	67629--A16		06216020	08/04/06
16	67630--A17		06216021	08/04/06
17	67631--A18		06216022	08/04/06
18	67632--A19		06216023	08/04/06
19	67633--A20		06216024	08/04/06
20	67634--A21		06216025	08/04/06
21	67635--A22		06216026	08/04/06
22	67636--A23		06216027	08/04/06
23	67637--A24		06216028	08/04/06
24	67638--A25		06216029	08/04/06
25	67639--B1		06216035	08/04/06
26	67640--B2		06216036	08/04/06
27	67641--B3		06216037	08/04/06
28	67642--B4		06216039	08/04/06
29	67643--B5		06216040	08/04/06
30	67644--B6		06216041	08/04/06
31	67645--B7		06216042	08/04/06
32	67646--B8		06216043	08/04/06
33	67647--B9		06216044	08/04/06
34	67648--B10G		06216016	08/04/06
35	67649--C1G		06216047	08/04/06
36	67650--C2G		06216048	08/04/06
37	67651--C3-GE		06216049	08/04/06
38	67652--D1		06216050	08/04/06

#	Ref	Description	Drawing#	Date
39	67653--D2		06216051	08/04/06
40	67654--D3		06216052	08/04/06
41	67655--D4		06216053	08/04/06
42	67656--D5		06216054	08/04/06
43	67657--HJ7		06216034	08/04/06
44	67658--EJ7		06216032	08/04/06
45	67659--J5		06216030	08/04/06
46	67660--J3		06216055	08/04/06
47	67661--J1		06216056	08/04/06
48	67662--J1A		06216057	08/04/06
49	67663--J2A		06216058	08/04/06
50	67664--J3A		06216059	08/04/06
51	67665--HJA		06216060	08/04/06
52	67666--EJA1		06216061	08/04/06
53	67667--EJA2		06216062	08/04/06
54	67668--EJA3		06216063	08/04/06
55	67669--HJB		06216033	08/04/06
56	67670--J3B		06216031	08/04/06
57	67671--HJC		06216046	08/04/06
58	67672--EJC		06216045	08/04/06
59	67673--MGR		06216004	08/04/06
60	67674--HJR		06216064	08/04/06
61	67675--EJR		06216005	08/04/06
62	67676--EJRR		06216065	08/04/06
63	67677--EJRRR		06216066	08/04/06
64	67678--J5R		06216067	08/04/06
65	67679--J5RR		06216003	08/04/06
66	67680--J3R		06216068	08/04/06
67	67681--J1R		06216069	08/04/06
68	67682--AP1		06216070	08/04/06
69	67683--AP2		06216071	08/04/06
70	67684--AP3		06216072	08/04/06
71	67685--AP4		06216073	08/04/06
72	67686--AP5		06216074	08/04/06
73	67687--AP6		06216075	08/04/06
74	67688--AP7		06216076	08/04/06
75	67689--AP8		06216077	08/04/06
76	67690--AP9		06216078	08/04/06

#	Ref	Description	Drawing#	Date
77	67691--BP1		06216079	08/04/06
78	67692--BP2		06216080	08/04/06
79	67693--BP3		06216081	08/04/06
80	67694--BP4		06216082	08/04/06
81	67695--BP5		06216083	08/04/06
82	67696--R1		06216001	08/04/06
83	67697--R2		06216002	08/04/06
84	67698--S1		06216084	08/04/06
85	67699--S2		06216085	08/04/06
86	67700--S3		06216086	08/04/06
87	67701--S4		06216087	08/04/06
88	67702--S5		06216088	08/04/06
89	67703--S6		06216089	08/04/06
90	67704--S7G		06216090	08/04/06
91	67705--S8		06216091	08/04/06
92	67706--S9		06216092	08/04/06
93	67707--S10		06216093	08/04/06
94	67708--S11		06216094	08/04/06
95	67709--X1-GE		06216095	08/04/06
96	67710--X2-GE		06216096	08/04/06
97	67711--Z1-GE		06216097	08/04/06
98	67712--Z2		06216098	08/04/06





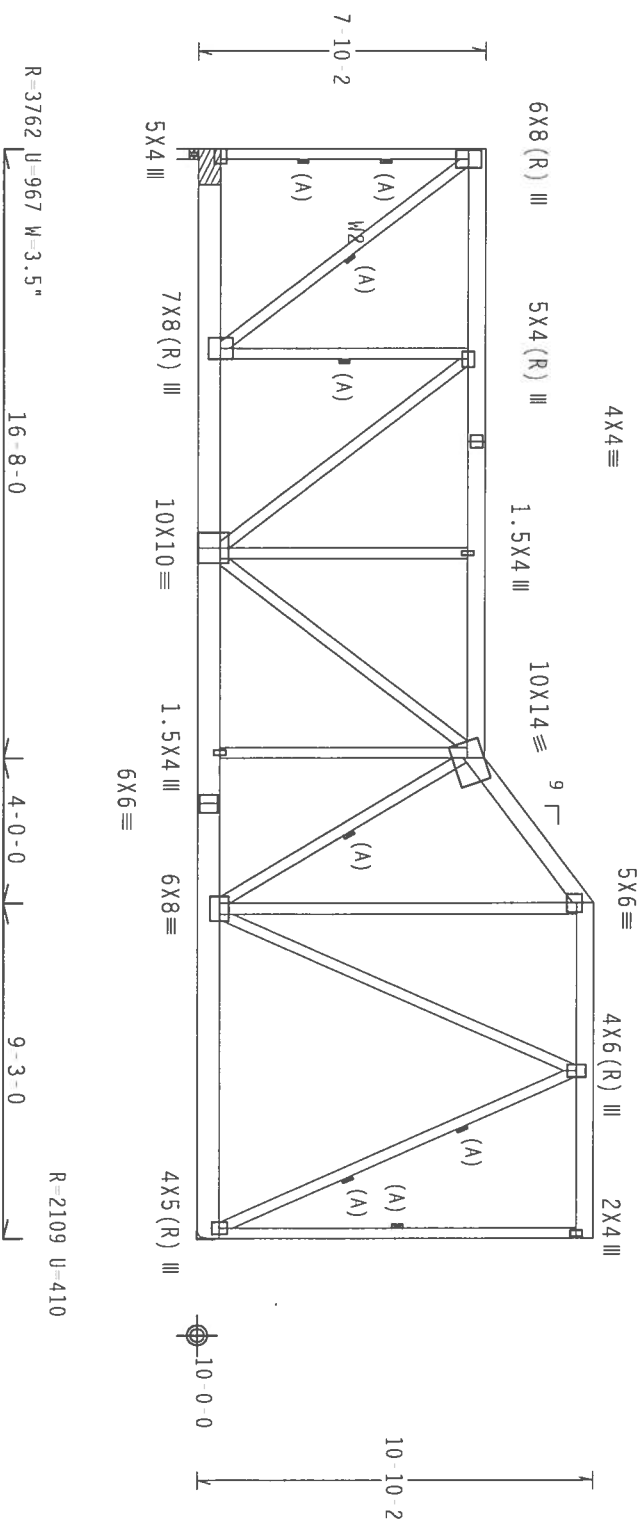
Top	chord	2x6	SP	#1	Dense
Bot	chord	2x8	SP	#1	Dense
	webs	2x4	SP	#3	:W2 2

End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.11" DL: 0.17" recommended camber 1/4"

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

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



PLT TYP. Wave

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

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

THE ABILENE REPORT

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

Scale = .1875"/Ft.

\*"WARNING" LABELS REQUIRE EXTERIOR CASE FABRICATION, INSTALLING, SHIPPING, INSTALLING AND PACKAGING TO MEET 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPT (TROSS PLATE INSTITUTE), 583 O'CONNOR RD., SUITE 200, HADSPEN, MI 49419, AND MECHANICAL (GOOD TRUSS CONNECTION) OF AMERICA, 6300 ENTERPRISE BLVD., HADSPEN, MI 49419, 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 ACID CEILING.

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

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

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY CTS SHALL BE NEARLY AS OF 1011 2002 SEC 3. A SEAL ON THIS

AND INSPECTION OF TRUSS FOLLOWED BY (1) SHIELD OF STEEL ANGLES AS OF 1912002 SEC. 3. A SCALE ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2

## SPECIAL LOADS

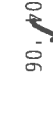
	(LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25)
TC	From 65 PLF at 0.00 to 65 PLF at 29.92
BC	From 20 PLF at 0.00 to 20 PLF at 29.92
TC	205 LB Conc. Load at 0.73, 2.73, 4.73, 6.73, 8.73
BC	79 LB Conc. Load at 0.73, 2.73, 4.73, 6.73, 8.73
BC	1909 LB Conc. Load at 9.60

110 mph wind, 19.34 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

(A) Continuous lateral bracing equally spaced on member.

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

Provide connection for concentrated load(s) shown.



ARTHUR R. FISHBEEK  
P.E. LICENSE  
No. 69687  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

FL / - / 4 / - / R / -

Scale = .1875" / Ft.

TC LL	20.0 PSF	REF R487 - 67615	
TC DL	10.0 PSF	DATE 08/04/06	
BC DL	10.0 PSF	DRW HCURS487 06216006	
BC LL	0.0 PSF	HC-ENG TCE / AF	
TOT. LD.	40.0 PSF	SEQN - 120574	
DUR. FAC.	1.25		
SPACING	24.0"	JRFF - 1SZH487 201	

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 : W4 2x4 SP #2:

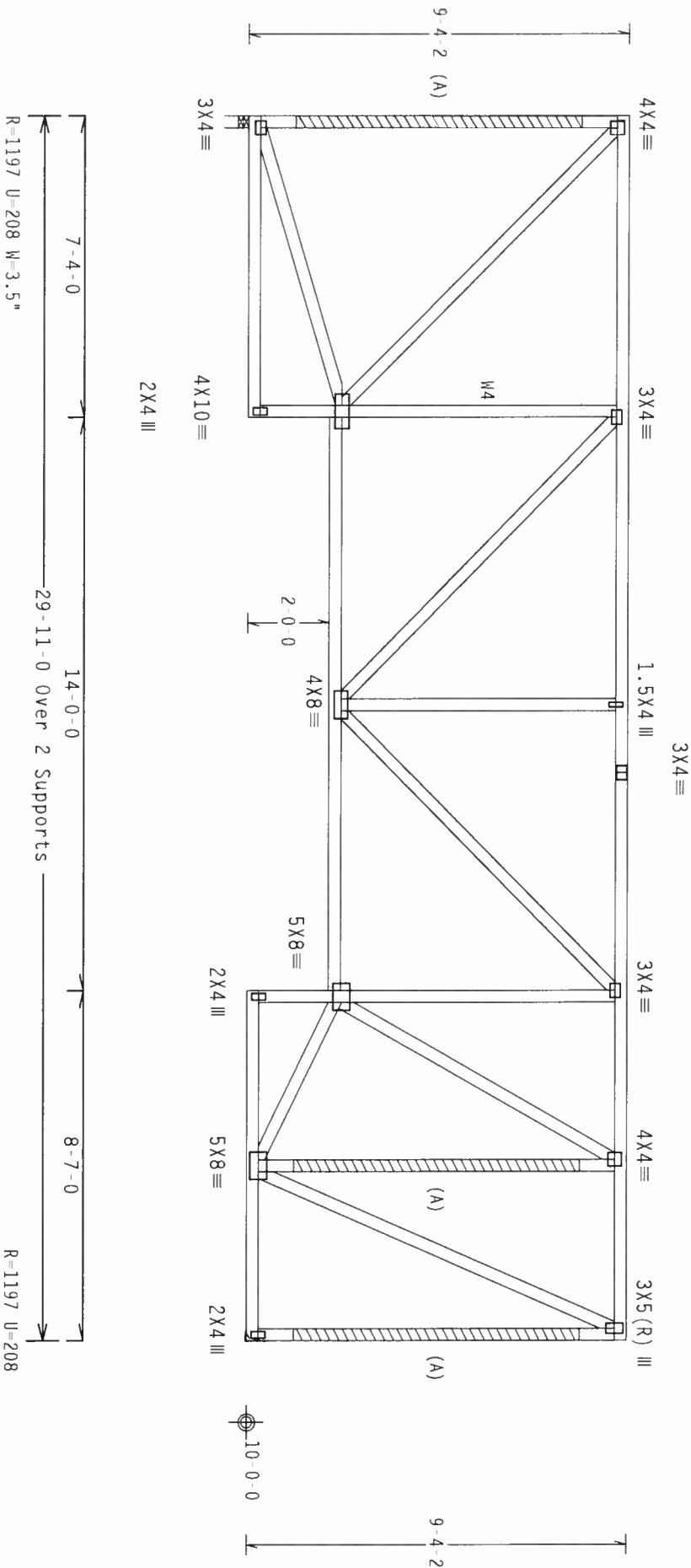
End verticals not exposed to wind pressure.

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

110 mph wind, 19.34 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.  
Deflection meets L/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.

Truss must be installed as shown with top chord up.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

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

Scale = .25"/ft.

**\*\*WARNING\*\*** THESE REQUIREMENTS ARE IN FURTHERANCE OF THE PROVISIONS OF THE BUILDING CODE OF THE STATE OF FLORIDA, CHAPTER 63, PART 1, F.S. (FAC) AND THE BUILDING CODE OF THE STATE OF FLORIDA, CHAPTER 63, PART 2, F.S. (FAC). THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THESE REQUIREMENTS TO THE PROJECT. THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THESE REQUIREMENTS TO THE PROJECT. THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THESE REQUIREMENTS TO THE PROJECT.

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ALPINE

Alpine Engineering Products, Inc.  
1990 Marjorie Drive  
Haines City, FL 33844  
Tel: 888-567-5671



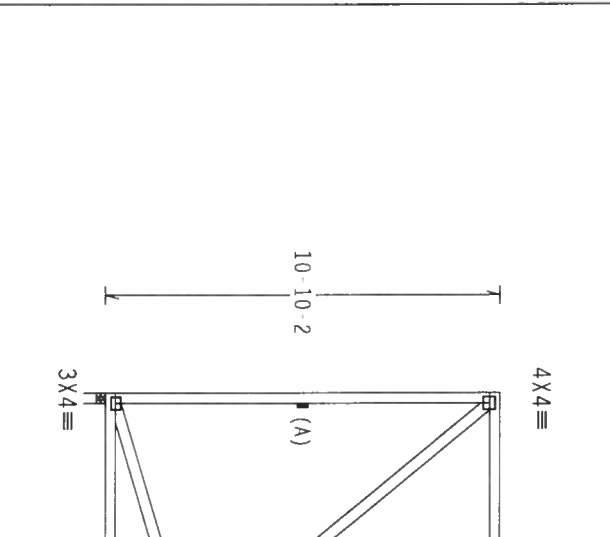
TC LL	20.0 PSF	REF	R487 - 67616
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCSR487 06216007
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN	118508
DUR. FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 201

[illegible]

110 mph wind, 20.84 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



7-4  
R=1197 U=236

PLT TYP. Wave

PLT TYP. Wave

PLT TYP. Wave

PLT TYP. Wave

PLT TYP. Wave

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSS'S RIGIDITY REFER TO BC'S 1 03 (BUILDING D'OHOFIO DR., SUITE 200, MADISON, WI 53719) FOR SAFETY TOP CHORD SHALL HAVE PROPERLY RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A C

ALPINE PRODUCTS, INC. SHALL NOT BE TRUSS IN CONFORMANCE WITH TP DESIGN CONFORMS WITH APPLICABLE

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
Telephone of Architect: # 567  
DESIGN SHOWN. THE SULLABY  
BUILDING DESIGNER PER ANSI/T

PLT TYP. Wave

PLT TYP. Wave

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSS'S RIGIDITY REFER TO BC'S 1 03 (BUILDING D'OHOFIO DR., SUITE 200, MADISON, WI 53719) FOR SAFETY TOP CHORD SHALL HAVE PROPERLY RIGID CEILING.

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**\*\*IMPORTANT\*\*** FURNISH A C

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DESIGN CONFORMS WITH APPLICA

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Alpine Engineered Products, Inc.

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
Telephone of Architect: 813/567-  
DESIGN SHOWN. THE SULLABY  
BUILDING DESIGNER PER ANSI/T

1950 Marley Drive  
Haines City, FL 33844  
Telephone of Architect: 813/567-  
DESIGN SHOWN. THE SOUTHERN  
BUILDING DESIGNER PER ANSI/T





Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	:W1 2>

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

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

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

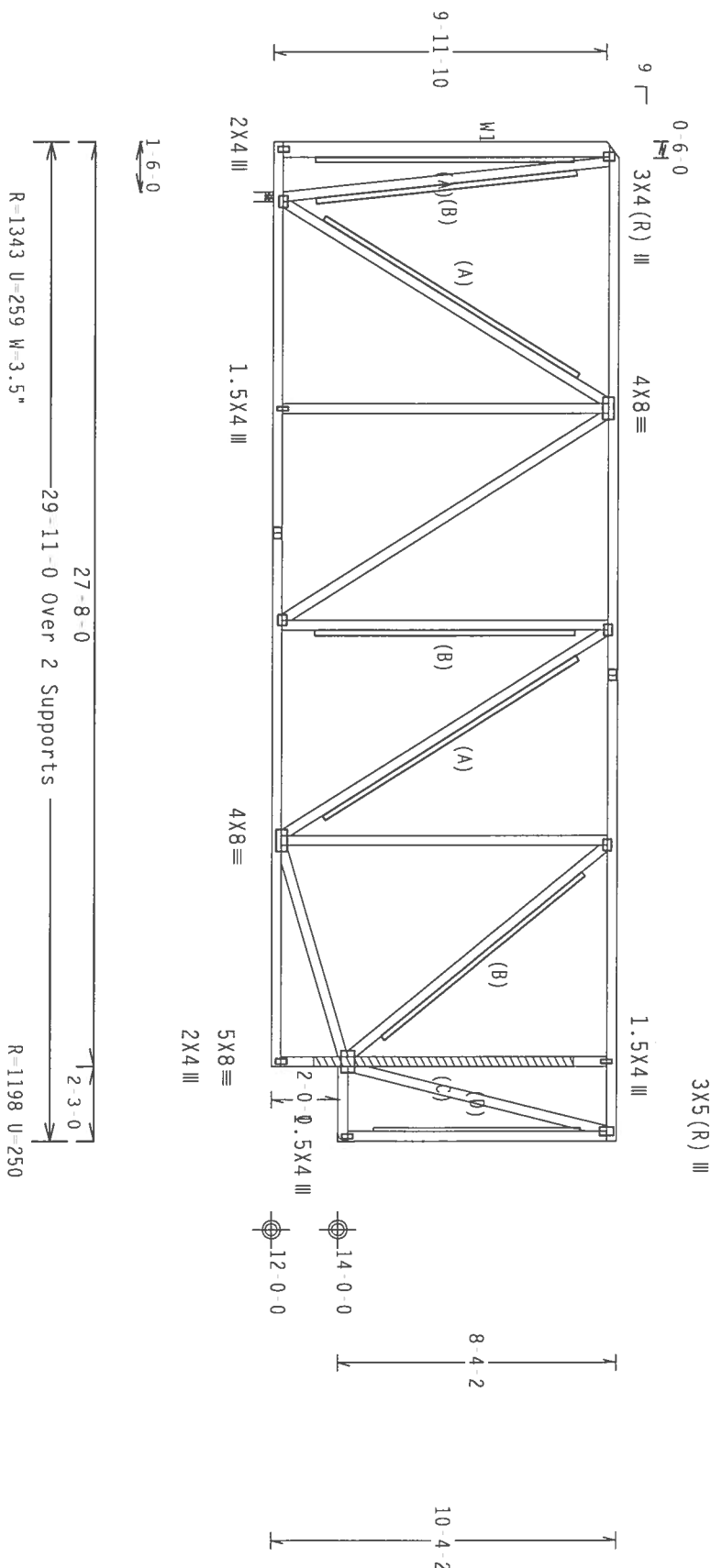
110 mph wind, 22.34 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT 11, EXP 8, wind TC<sub>0</sub> = 5.0 psf, wind BC DL = 5.0 psf.

End verticals not exposed to wind pressure.

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

(B) 2x4 Sp#3 or better "T" brace. 80% length of web member, attached with 16d box or gun (0.135x3.5", min.) nails @ 6" OC, or (1) continuous lateral brace equally spaced on member.

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



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

FL/4/-/R/-

Scale = .1875"/Ft.

[illegible]

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PFA) AND TP1

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF IP112002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT IS THE RESPONSIBILITY OF THE

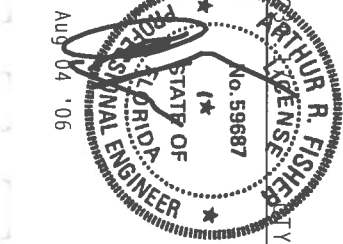
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND ARCHITECT. SEE 2.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

2.  $\frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$

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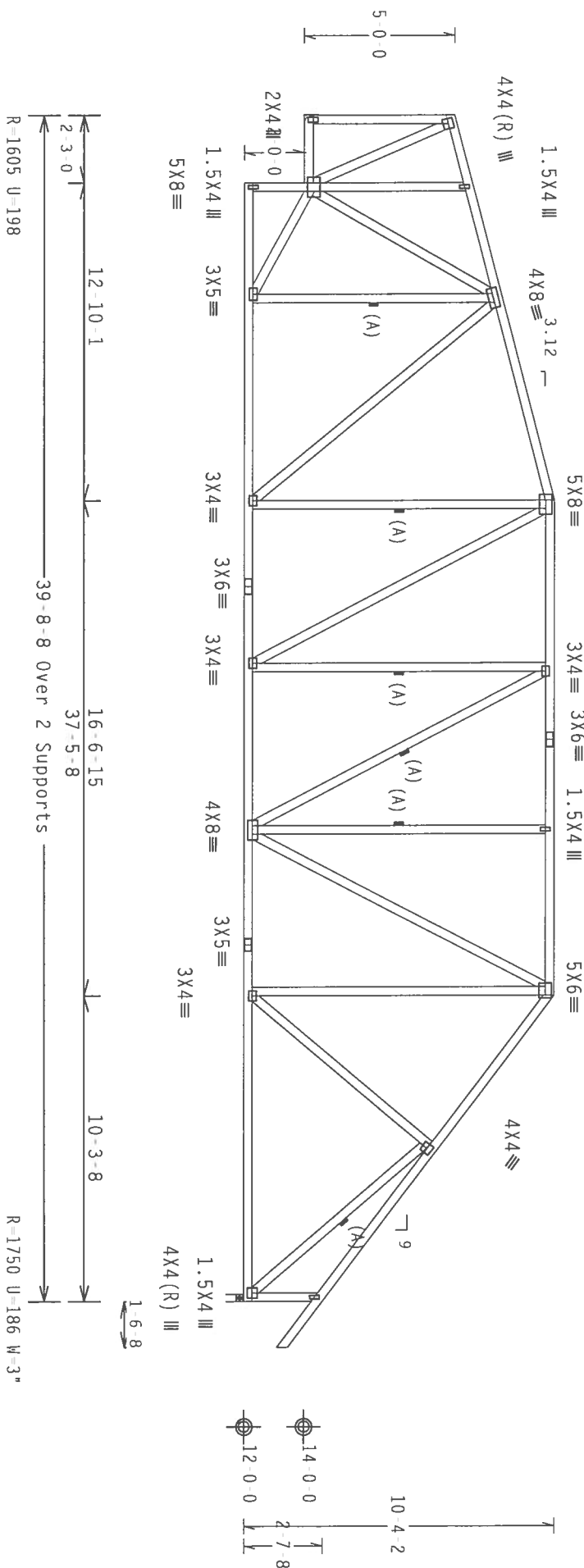
FL / 4 / - / R / -		Scale = .1875" / Ft.
TC LL	20.0 PSF	REF R487 - 67619
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216010
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 121231
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZH487 Z01

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

110 mph wind, 17.91 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.



PLT TYP. Wave

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

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

7.24.

TY:1

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

Scale = .1875"/Ft.

[illegible]

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

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

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1 2002 SEC.3. A SEAL ON THIS

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

100

TC LL	20.0 PSF	REF	R487 - 67620
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216011
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121212
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 Z01



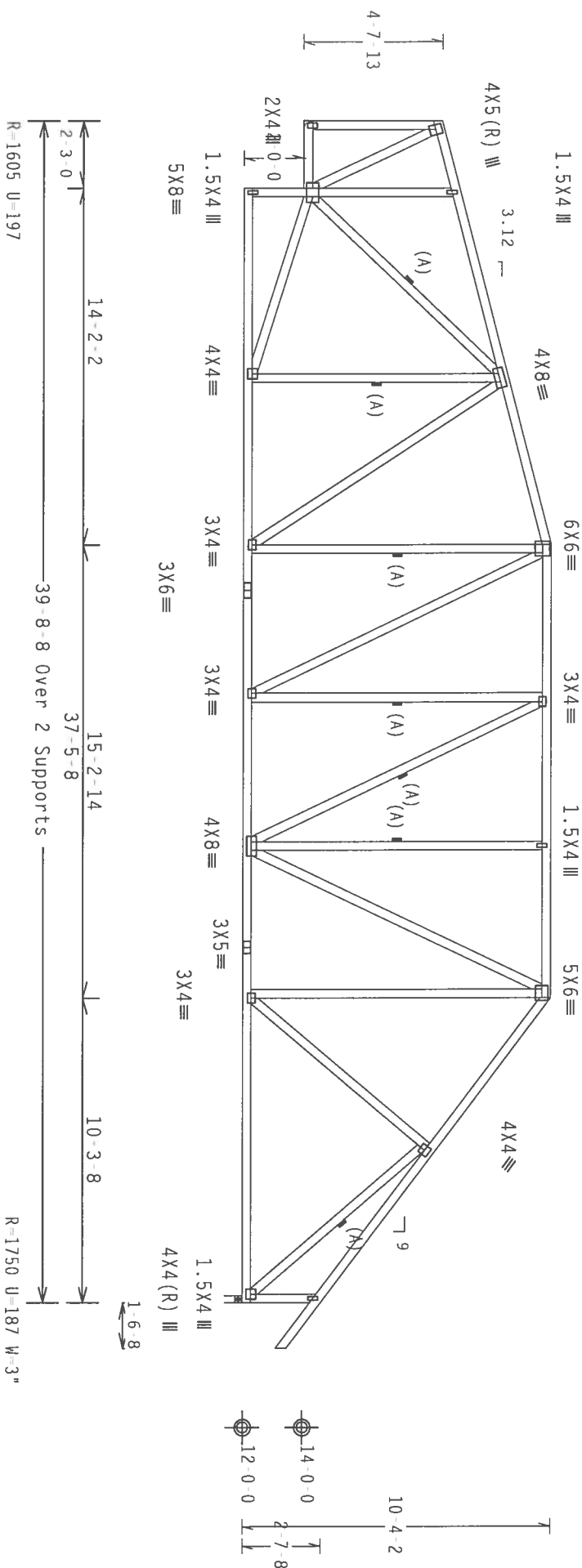
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 17.91 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 exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001

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

Scale = .1875"/ft.

**WARNING:** ALL PRICES REQUIRE EXPEDITED CASH IN LIQUIDATION. IMMEDIATE SHIPPING, INSTALLING, AND PACKING REFER TO BEST 1.03 (BUILDING EXPERTISE IN SAFETY INFORMATION). PUBLISHED BY TPI (TROSS PAPER INSTITUTE, 5030 O RIND RD., SUITE 200, HADSPON, MI 48131) AND AFRICA (GOOD TRUSTS CONSULT OR AMERICA, 6300 FRANKLIN BLVD, HADSPON, MI 48131) FOR SELLING PRACTICES. PRIOR TO RECEIVING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED LIGID CLIPPING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. TRUSSES CONFORMING WITH ALL APPLICABLE REQUIREMENTS OF AISC DESIGNATED SPECIFICATIONS SHALL BE ACCEPTED AND THE

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC., BY AREA) AND UPL. APPLM.

CONCRETE PLATE, HAD UP TO 18/16GA (H. II/S/K) WITH A653 GRADE 40/50 (H. K/H.S.) GALV. STEEL. APPLY PLATES TO EACH FACE OF BEAM AND WELD JOINTS LOCATED ON THIS DESIGN POSITION PER DRAWINGS 1604-2

ANY INSPECTION OF PLATE'S FOLLOWED BY (1) SHALL BE PERMITTED AS OF APRIL 2002 SEC 3 A SCAL ON THIS  
 FLEXIBLE TO EACH PAIR OF 18033 AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION FOR DRAWINGS THRU 2

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

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2

TC LL	20.0 PSF	REF	R487 - 67621
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216012
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121203
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 201

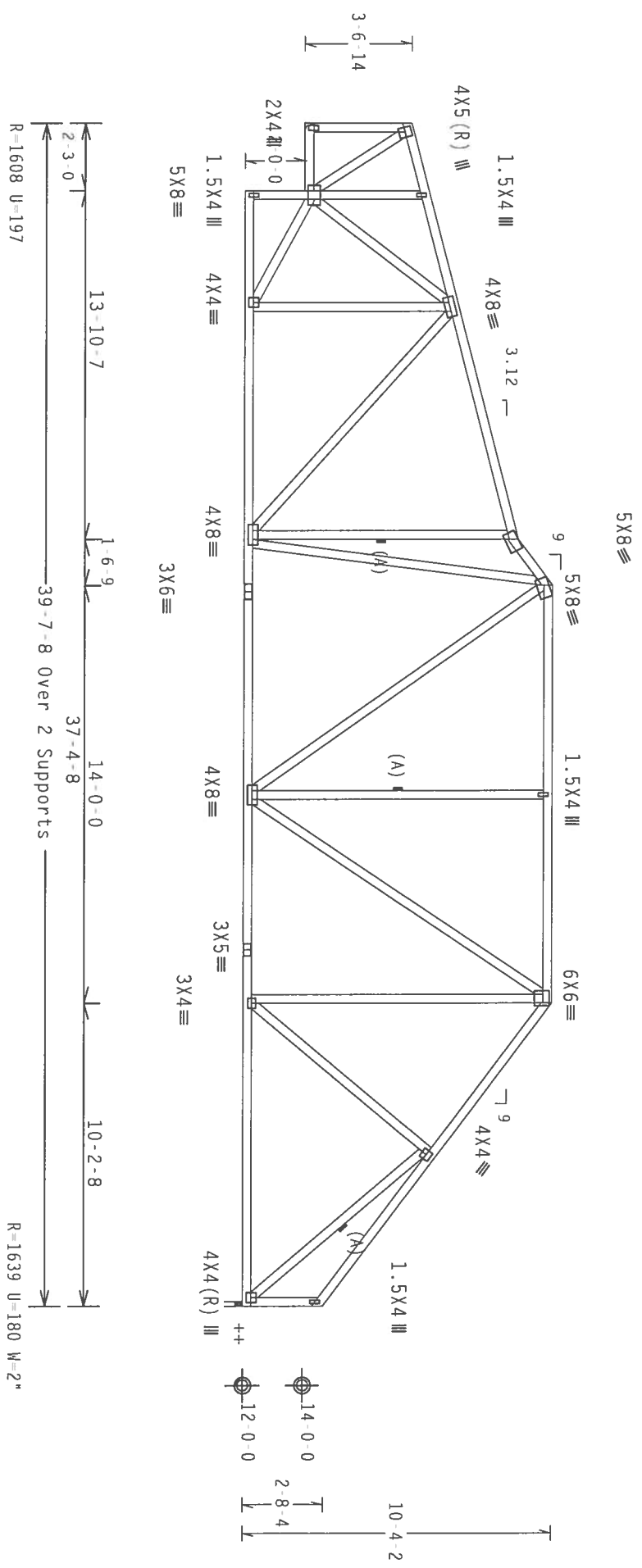


Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

End verticals not exposed to wind pressure.

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

110 mph wind, 18.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
(A) Continuous lateral bracing equally spaced on member.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.  
++ Anchorage req'd to prevent truss from slipping off bearing.



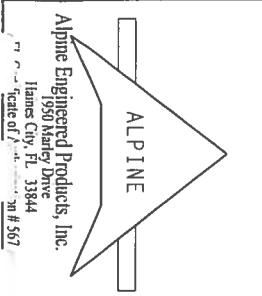
PLT TYP. Wave

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



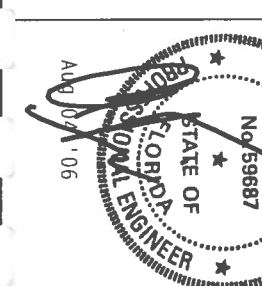
FL/-/4/-/R/-

Scale = .1875"/ft.



**\*\*IMPORTANT\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES 1.03 (BUILDING COMPONENT SAFETY INFORMATION), BUILDING DEPT. OF AMERICA, 6700 CHURCH ST. IN MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MD5 (NATIONAL DESIGN SPEC. BY AREA) AND TPI. APPLY CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASH 4653 GRADE, 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S ACCEPTANCE OF THE DESIGN AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT BUILDING DESIGNER PER AREA/TYPE 1 SEC. 2.

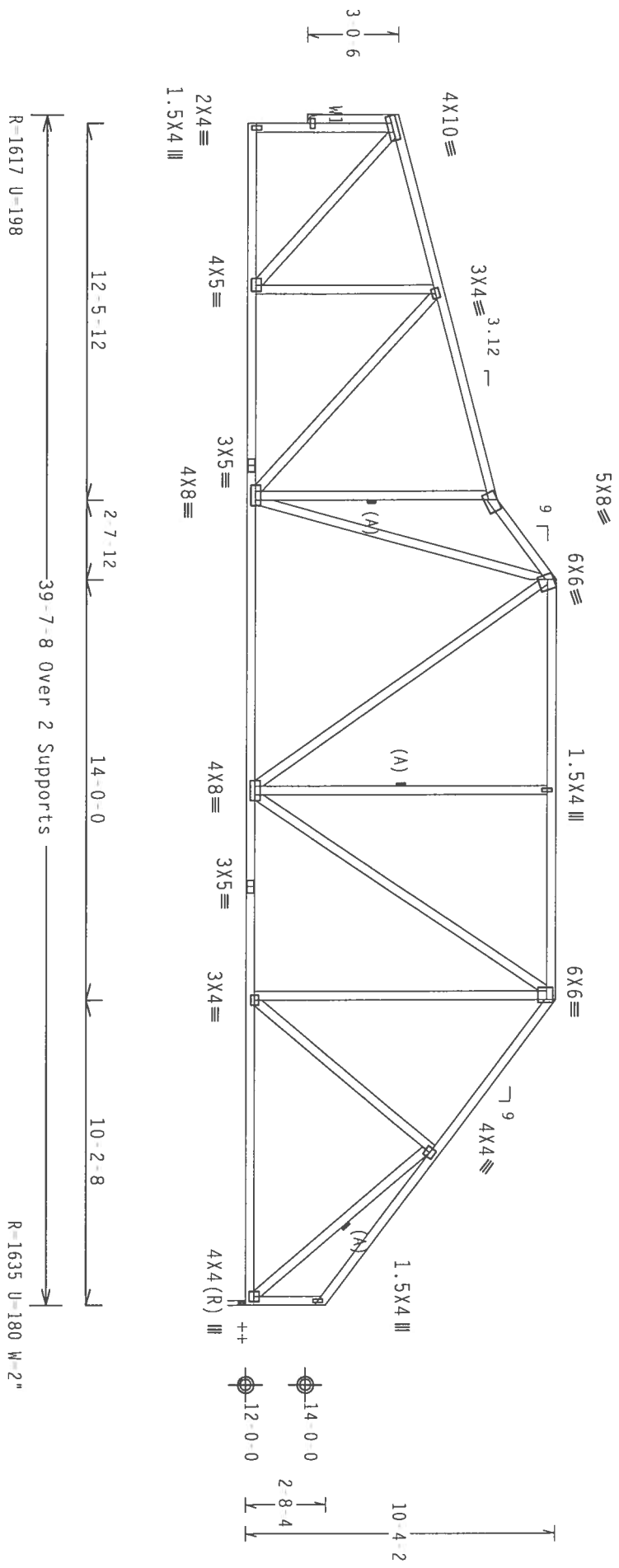


TC LL	20.0 PSF	REF R487 - 67623
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216014
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEON- 121162
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487 201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W1 2x4 SP #2 Dense:  
:Lt Bearing Leg 2x4 SP #3:

(A) Continuous lateral bracing equally spaced on member.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 18.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
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.  
++ Anchorage req'd to prevent truss from slipping off bearing.



PLT TYP. Wave

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

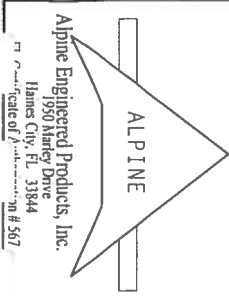
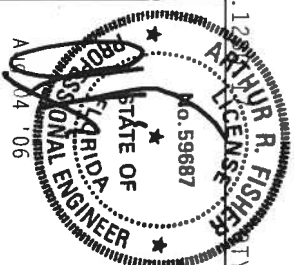
FL/-/4/-/R/-

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ORFORD DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL, 6700 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONDITIONS WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASH 4653 GRADE, 40/60 GR. K/H/SI GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.

PERFORMANCE OF THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE TRUSS BEING BUILT IN ACCORDANCE WITH THE DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487 - 67624
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216015
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEGN- 121151
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZH487 201

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

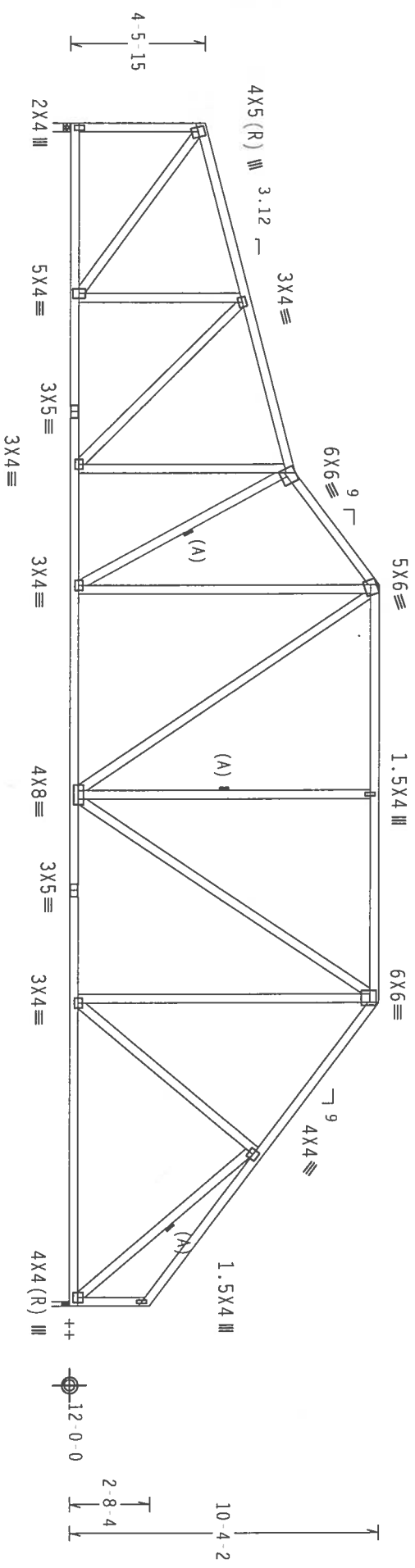
End verticals not exposed to wind pressure.

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

++ Anchorage req'd to prevent truss from slipping off bearing.

110 mph wind, 18.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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



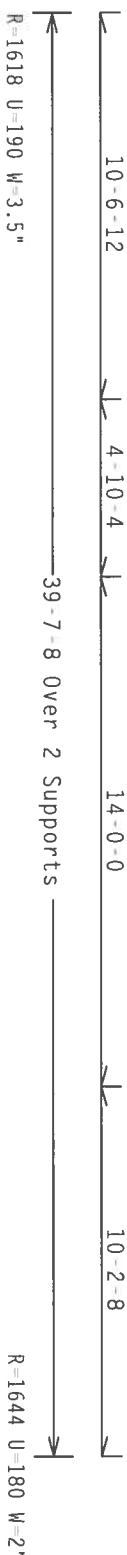
Scale = .1875"/ft.

ALPINE		ALPINE ENGINEERED PRODUCTS, INC.	
Haines City, FL 33844		1990 Marley Drive	
Tel: 888.567.567		Fax: 888.567.567	
E-mail: info@alpinepe.com		www.alpinepe.com	
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING THE TRUSS SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGN OF THE TRUSS SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGN OF THE TRUSS SHALL BE THE RESPONSIBILITY OF THE USER.		ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING THE TRUSS SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGN OF THE TRUSS SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGN OF THE TRUSS SHALL BE THE RESPONSIBILITY OF THE USER.	
TC LL	20.0 PSF	REF	R487 - 67625
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216017
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEON	118356
DUR. FAC.	1.25		
SPACING	24.0"	URF	1SZH487 201

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

(A) Continuous lateral bracing equally spaced on member.

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



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

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

7.24.1206-17CENSEMENT SHEET

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

\* \* \* \* \*

**WARNING** \* \* \* \* \* PROSSES, RIGID EXTERNAL CASE, IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO GC51 1.0 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE THUSS PLATE INSTITUTE, 5831 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS CONNECT) OF AMERICA, 6500 ENTERPRISE DRIVE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TIED CEILING.

\* \* \* \* \*

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

TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TRUSS CONFORMANCE WITH TPI; AND PROVIDING OF ANY CRITICAL DESIGN CHECKS BY AREA; AND THE

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

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

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEAL AS OF APRIL 2002 SEC.5.  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE

DESIGN SHOWS THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF PROFESSIONAL ENGINEERING SOCIETY FOR THE INDUSTRY.

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

[illegible]

TC LL	20.0 PSF	REF	R487 - 67626
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216038
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	118354
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 Z01

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

End verticals not exposed to wind pressure.

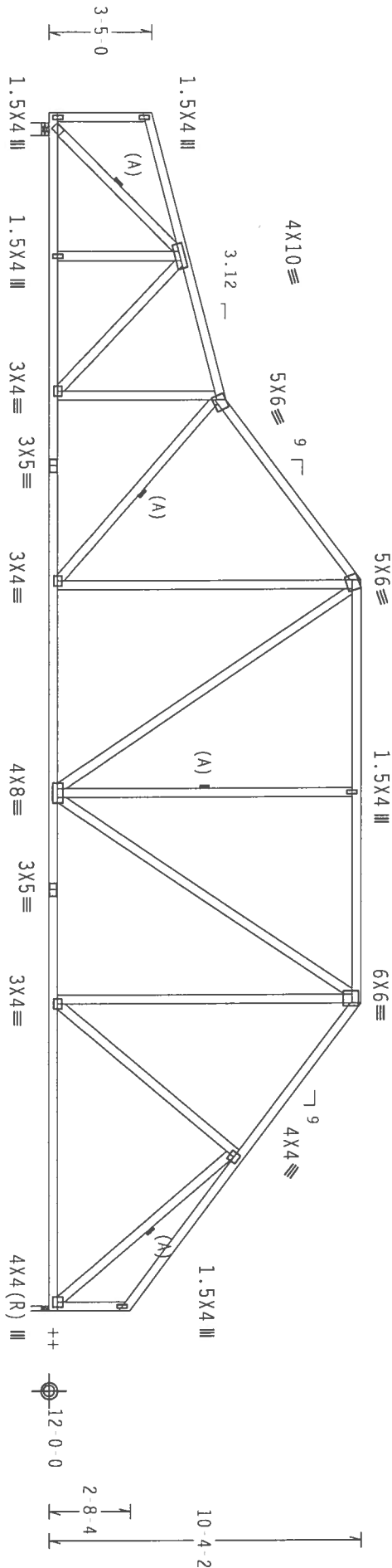
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

++ Anchorage req'd to prevent truss from slipping off bearing.

110 mph wind, 18.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



R=1644 U=188 W=4.95"

R=1622 U=180 W=2"

PLT TYP. Wave

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

7.24.12

FL/-/4/-/R/-

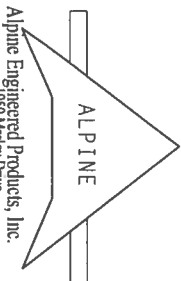
Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BESET 1.03 (CONTINUING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 5840 GONORIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE BL, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

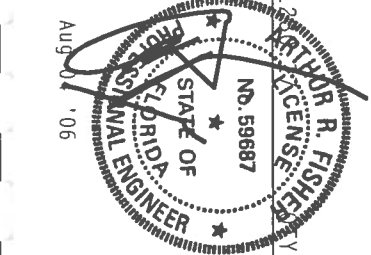
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. APPLICABLE CONNECTIONS ARE MADE OF 20/18/16GA (W/H/S/S) ASH/ASA GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 2. DRAWING INDICATES THE LOCATION OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEE THE A SEAL ON THIS DRAWING FOR THE LOCATION OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/701.1 SEC. 2.



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

File # 567



TC LL	20.0 PSF	REF	R487-67627
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216018
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN	118352
DUR. FAC.	1.25		
SPACING	24.0"	JRFF	1SZH487 201



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

End verticals not exposed to wind pressure.

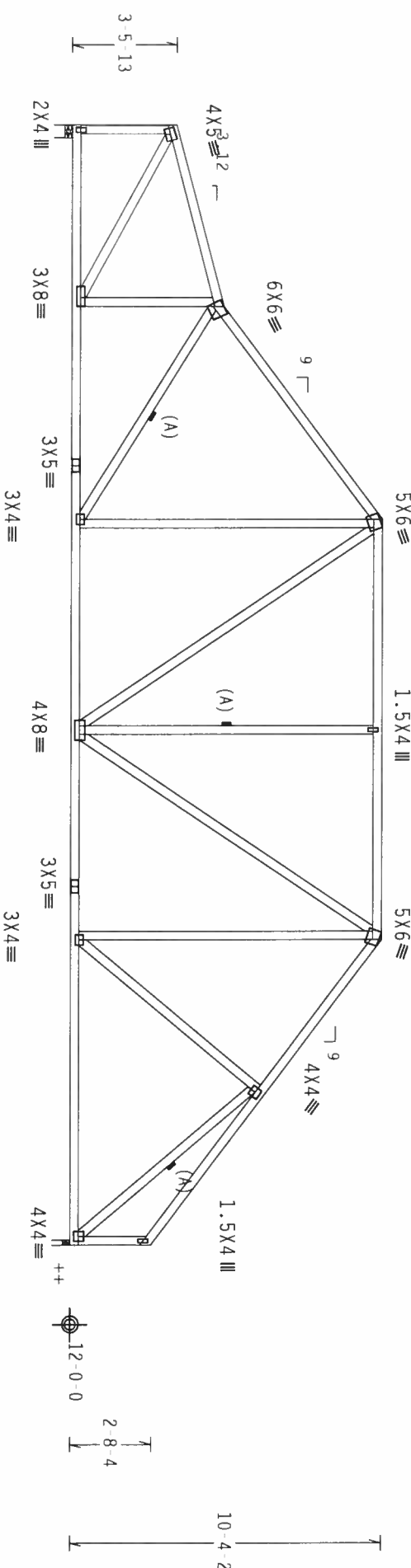
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

++ Anchorage req'd to prevent truss from slipping off bearing.

110 mph wind, 18.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



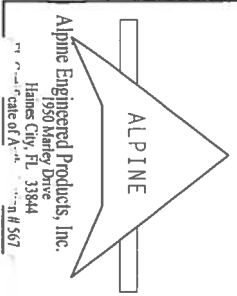
6-0-5 7-0-11 14-0-0 10-2-8  
37-3-8 Over 2 Supports  
R=1533 U=180 W=4.95"  
R=1550 U=180 W=2"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/R/- Scale = .1875"/ft.

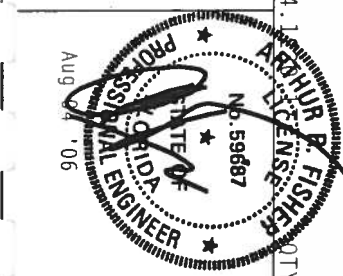
\*\*\*HARRING\*\*\* TRUSSES SHOWN EXTERIOR CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 503 D'CORRADO DR., SUITE 200, MADISON, WI 53719 AND WICK (WOOD TRUSS CONNECT, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (ADDITIONAL DESIGN SPEC. BY AREA) AND TPI. APPLICABLE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.

APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ALL TRUSSES SHALL BE PER AREA A3 OF TPI 1.02, SEC. 3 FOR THE TRUSS COMPONENT DESIGN INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marney Drive  
Haines City, FL 33844  
Phone: 888-255-5671  
Fax: 888-255-5672



TC LL	20.0 PSF	REF R487 - 67628
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216019
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEON- 118350
DUR. FAC.	1.25	
SPACING	24.0"	URFF - 1SZH487 Z01

A16)

110 mph wind, 18-52 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf

(A) Continuous lateral bracing equally spaced on member.

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



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

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

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

Scale = .1875"/Ft.

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

[illegible]

CONNECTION PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL (ENGINEERING) RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PLR ANSI/7P1.1 SEC. 2.

BUILDING DESIGNER: PLR ANSI/TPI 1 SEC. 2.

RAINES CITY, FL 33844  
 P.O. Box 567

BUILDING DESIGNER: PLR ANSI/TPI 1 SEC. 2.

100

CDACJING	24.0"	JRFF-1SZHAA7	Z01
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JRFE-1SZH127 201

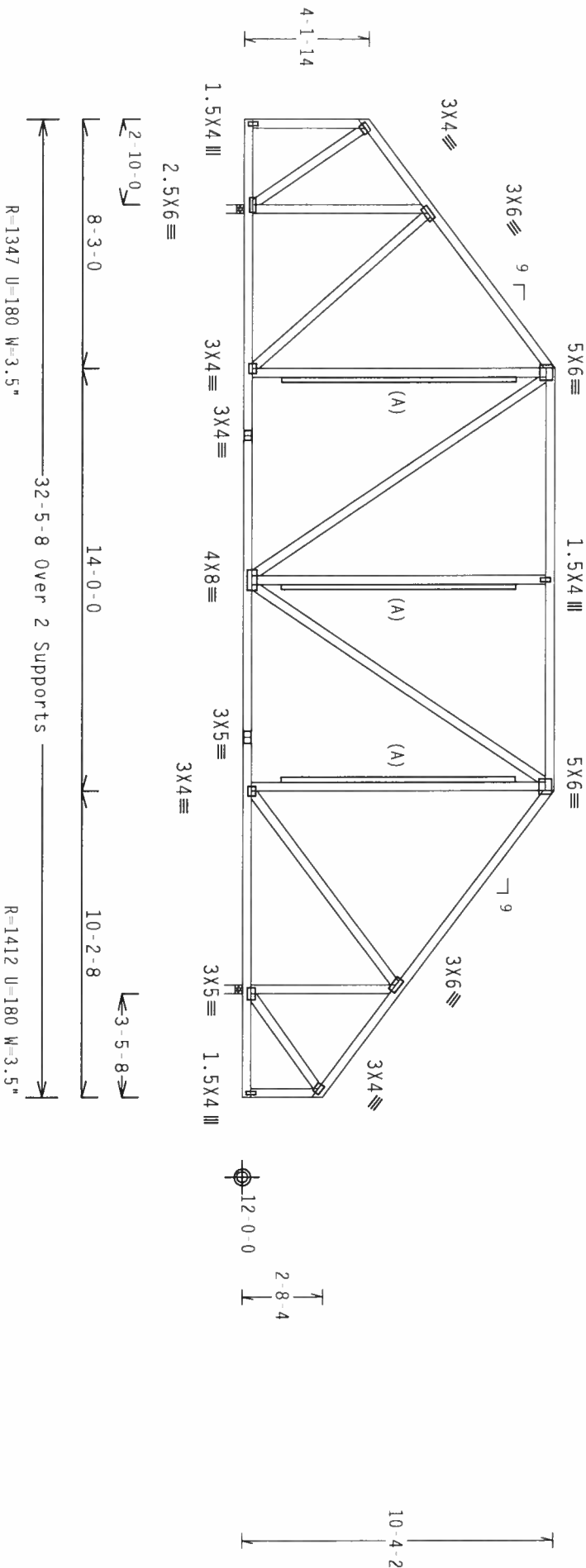
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

End verticals not exposed to wind pressure.

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

110 mph wind, 18.52 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.

(A) 2x4 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.  
Deflection meets L/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.



PLT TYP. Wave

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

7.24.18

FL/-/4/-/R/-

Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND UNLOADING. REFER TO DESI 1.03 (INCLUDING COMPONENT SAFETY INFORMATION). CONSULT WITH TPI TRUSS PLANT INSTITUTE, 500 D'ORFORD DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE TRUSSES. 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.

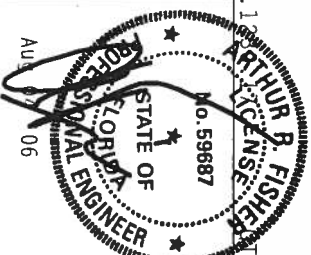
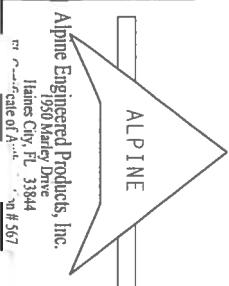
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

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

CONNECTION 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 AMER 43 OF TPI 2002 SEC. 3.3. OR THE TRUSS COMPANY

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SIGNED FOR THE TRUSS COMPANY



TC LL	20.0 PSF	REF	R487 - 67630
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216021
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	118312
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 201

110 mph wind, 16.91 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.

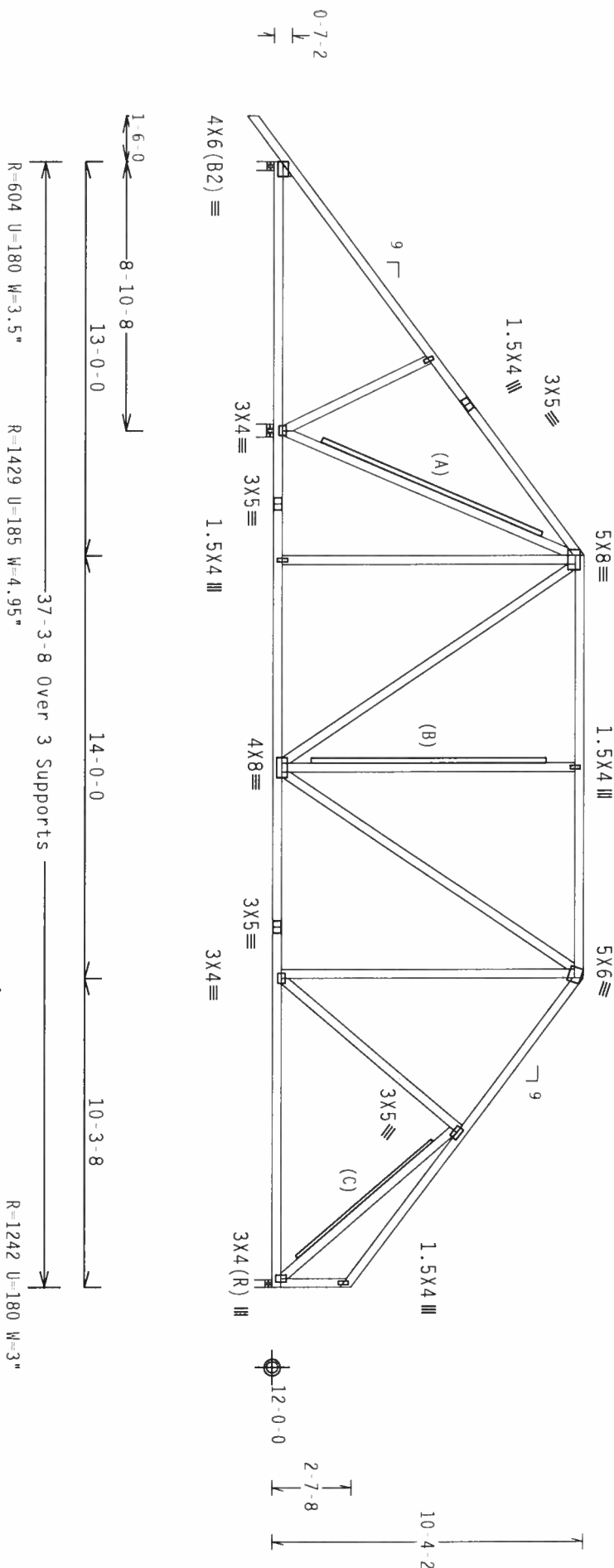
(C) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

(B) 2x4 SP #3 or better "T" brace. 80% length of web member.

(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.

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .1875"/Ft.

**\*\*WARNING\*\*** PRICES INCLUDE EXTRACT CASE FABRICATION, INSTALLING, SHIPPING, UNLOADING, AND BRACING. REFER TO NC-1 FOR DOWLING COMPONENT SAFETY INFORMATION. FURNISHED BY TPI (BROSSE HALL INSTITUTE, 560 O'ROURD DR., SUITE 200, MADISON, IL 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE, ILL. MADISON, IL 53719) FOR SAFETY PRACTICES RELATIVE TO PERFORMING TRUSS 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.

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

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

Alpine Engineered Products, Inc.  
1050 Hayden Drive

150 Mainway Drive  
Haines City, FL 33844  
FI Certificate of Authorization # 567

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

TC LL	20.0 PSF	REF	R487 - 67631
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216022
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121419
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 Z01

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

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

(C) 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.

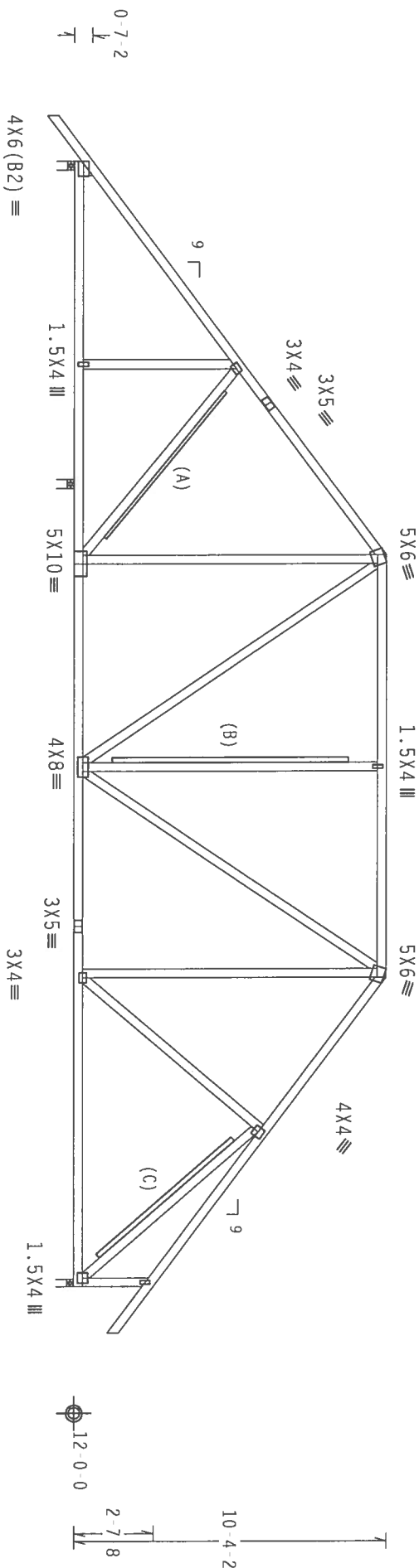
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 16.91 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 exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

(B) 2x4 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.

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



10-7-12  
13-0-0  
14-0-0  
10-3-8  
1-6-0  
1-6-8  
37-3-8 Over 3 Supports  
R=1510 U=180 W=3.5"  
R=255 U=180 W=3.5"  
R=1619 U=180 W=3"

PLT TYP. Wave

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

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

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES EXPOSED TO EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BESET 103 (OUTLIDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 DORCHESTER DR., SUITE 200, HADISON, MI 53129) AND APCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 ENTERPRISE LN, HADISON, MI 53129) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HIS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. APPLY PLATES TO EACH FACT OF TRUSS AND, UNLESS OTHERWISE LOCATED FOR THIS DESIGN, POSITION PER DRAWINGS 160A, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z, 160AA, 160AB, 160AC, 160AD, 160AE, 160AF, 160AG, 160AH, 160AI, 160AJ, 160AK, 160AL, 160AM, 160AN, 160AO, 160AP, 160AQ, 160AR, 160AS, 160AT, 160AU, 160AV, 160AW, 160AX, 160AY, 160AZ, 160BA, 160BB, 160BC, 160BD, 160BE, 160BF, 160BG, 160BH, 160BI, 160BJ, 160BK, 160BL, 160BM, 160BN, 160BO, 160BP, 160BQ, 160BR, 160BS, 160BT, 160BU, 160BV, 160BW, 160BX, 160BY, 160BZ, 160CA, 160CB, 160CC, 160CD, 160CE, 160CF, 160CG, 160CH, 160CI, 160CJ, 160CK, 160CL, 160CM, 160CN, 160CO, 160CP, 160CQ, 160CR, 160CS, 160CT, 160CU, 160CV, 160CW, 160CX, 160CY, 160CZ, 160DA, 160DB, 160DC, 160DD, 160DE, 160DF, 160DG, 160DH, 160DI, 160DJ, 160DK, 160DL, 160DM, 160DN, 160DO, 160DP, 160DQ, 160DR, 160DS, 160DT, 160DU, 160DV, 160DW, 160DX, 160DY, 160DZ, 160EA, 160EB, 160EC, 160ED, 160EE, 160EF, 160EG, 160EH, 160EI, 160EJ, 160EK, 160EL, 160EM, 160EN, 160EO, 160EP, 160EQ, 160ER, 160ES, 160ET, 160EU, 160EV, 160EW, 160EX, 160EY, 160EZ, 160FA, 160FB, 160FC, 160FD, 160FE, 160FF, 160FG, 160FH, 160FI, 160FJ, 160FK, 160FL, 160FM, 160FN, 160FO, 160FP, 160FQ, 160FR, 160FS, 160FT, 160FU, 160FV, 160FW, 160FX, 160FY, 160FZ, 160GA, 160GB, 160GC, 160GD, 160GE, 160GF, 160GG, 160GH, 160GI, 160GJ, 160GK, 160GL, 160GM, 160GN, 160GO, 160GP, 160GQ, 160GR, 160GS, 160GT, 160GU, 160GV, 160GW, 160GX, 160GY, 160GZ, 160HA, 160HB, 160HC, 160HD, 160HE, 160HF, 160HG, 160HH, 160HI, 160HJ, 160HK, 160HL, 160HM, 160HN, 160HO, 160HP, 160HQ, 160HR, 160HS, 160HT, 160HU, 160HV, 160HW, 160HX, 160HY, 160HZ, 160IA, 160IB, 160IC, 160ID, 160IE, 160IF, 160IG, 160IH, 160II, 160IJ, 160IK, 160IL, 160IM, 160IN, 160IO, 160IP, 160IQ, 160IR, 160IS, 160IT, 160IU, 160IV, 160IW, 160IX, 160IY, 160IZ, 160JA, 160JB, 160JC, 160JD, 160JE, 160JF, 160JG, 160JH, 160JI, 160JJ, 160JK, 160JL, 160JM, 160JN, 160JO, 160JP, 160JQ, 160JR, 160JS, 160JT, 160JU, 160JV, 160JW, 160JX, 160JY, 160JZ, 160KA, 160KB, 160KC, 160KD, 160KE, 160KF, 160KG, 160KH, 160KI, 160KJ, 160KK, 160KL, 160KM, 160KN, 160KO, 160KP, 160KQ, 160KR, 160KS, 160KT, 160KU, 160KV, 160KW, 160KX, 160KY, 160KZ, 160LA, 160LB, 160LC, 160LD, 160LE, 160LF, 160LG, 160LH, 160LI, 160LJ, 160LK, 160LL, 160LM, 160LN, 160LO, 160LP, 160LQ, 160LR, 160LS, 160LT, 160LU, 160LV, 160LW, 160LX, 160LY, 160LZ, 160MA, 160MB, 160MC, 160MD, 160ME, 160MF, 160MG, 160MH, 160MI, 160MJ, 160MK, 160ML, 160MN, 160MO, 160MP, 160MQ, 160MR, 160MS, 160MT, 160MU, 160MV, 160MW, 160MX, 160MY, 160MZ, 160NA, 160NB, 160NC, 160ND, 160NE, 160NF, 160NG, 160NH, 160NI, 160NJ, 160NK, 160NL, 160NM, 160NO, 160NP, 160NQ, 160NR, 160NS, 160NT, 160NU, 160NV, 160NW, 160NX, 160NY, 160NZ, 160OA, 160OB, 160OC, 160OD, 160OE, 160OF, 160OG, 160OH, 160OI, 160OJ, 160OK, 160OL, 160OM, 160ON, 160OO, 160OP, 160OQ, 160OR, 160OS, 160OT, 160OU, 160OV, 160OW, 160OX, 160OY, 160OZ, 160PA, 160PB, 160PC, 160PD, 160PE, 160PF, 160PG, 160PH, 160PI, 160PJ, 160PK, 160PL, 160PM, 160PN, 160PO, 160PP, 160PQ, 160PR, 160PS, 160PT, 160PU, 160PV, 160PW, 160PX, 160PY, 160PZ, 160QA, 160QB, 160QC, 160QD, 160QE, 160QF, 160QG, 160QH, 160QI, 160QJ, 160QK, 160QL, 160QM, 160QN, 160QO, 160QP, 160QQ, 160QR, 160QS, 160QT, 160QU, 160QV, 160QW, 160QX, 160QY, 160QZ, 160RA, 160RB, 160RC, 160RD, 160RE, 160RF, 160RG, 160RH, 160RI, 160RJ, 160RK, 160RL, 160RM, 160RN, 160RO, 160RP, 160RQ, 160RR, 160RS, 160RT, 160RU, 160RV, 160RW, 160RX, 160RY, 160RZ, 160SA, 160SB, 160SC, 160SD, 160SE, 160SF, 160SG, 160SH, 160SI, 160SJ, 160SK, 160SL, 160SM, 160SN, 160SO, 160SP, 160SQ, 160SR, 160SS, 160ST, 160SU, 160SV, 160SW, 160SX, 160SY, 160SZ, 160TA, 160TB, 160TC, 160TD, 160TE, 160TF, 160TG, 160TH, 160TI, 160TJ, 160TK, 160TL, 160TM, 160TN, 160TO, 160TP, 160TQ, 160TR, 160TS, 160TT, 160TU, 160TV, 160TW, 160TX, 160TY, 160TZ, 160UA, 160UB, 160UC, 160UD, 160UE, 160UF, 160UG, 160UH, 160UI, 160UJ, 160UK, 160UL, 160UM, 160UN, 160UO, 160UP, 160UQ, 160UR, 160US, 160UT, 160UU, 160UV, 160UW, 160UX, 160UY, 160UZ, 160VA, 160VB, 160VC, 160VD, 160VE, 160VF, 160VG, 160VH, 160VI, 160VJ, 160VK, 160VL, 160VM, 160VN, 160VO, 160VP, 160VQ, 160VR, 160VS, 160VT, 160VU, 160VV, 160VW, 160VX, 160VY, 160VZ, 160WA, 160WB, 160WC, 160WD, 160WE, 160WF, 160WG, 160WH, 160WI, 160WJ, 160WK, 160WL, 160WM, 160WN, 160WO, 160WP, 160WQ, 160WR, 160WS, 160WT, 160WU, 160WV, 160WW, 160WX, 160WY, 160WZ, 160XA, 160XB, 160XC, 160XD, 160XE, 160XF, 160XG, 160XH, 160XI, 160XJ, 160XK, 160XL, 160XM, 160XN, 160XO, 160XP, 160XQ, 160XR, 160XS, 160XT, 160XU, 160XV, 160XW, 160XX, 160XY, 160XZ, 160YA, 160YB, 160YC, 160YD, 160YE, 160YF, 160YG, 160YH, 160YI, 160YJ, 160YK, 160YL, 160YM, 160YN, 160YO, 160YP, 160YQ, 160YR, 160YS, 160YT, 160YU, 160YV, 160YW, 160YX, 160YY, 160YZ, 160ZA, 160ZB, 160ZC, 160ZD, 160ZE, 160ZF, 160ZG, 160ZH, 160ZI, 160ZJ, 160ZK, 160ZL, 160ZM, 160ZN, 160ZO, 160ZP, 160ZQ, 160ZR, 160ZS, 160ZT, 160ZU, 160ZV, 160ZW, 160ZX, 160ZY, 160ZZ



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

TC LL	20.0 PSF	REF R487 - 67632
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216023
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 121441
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487 201

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

(C) 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.

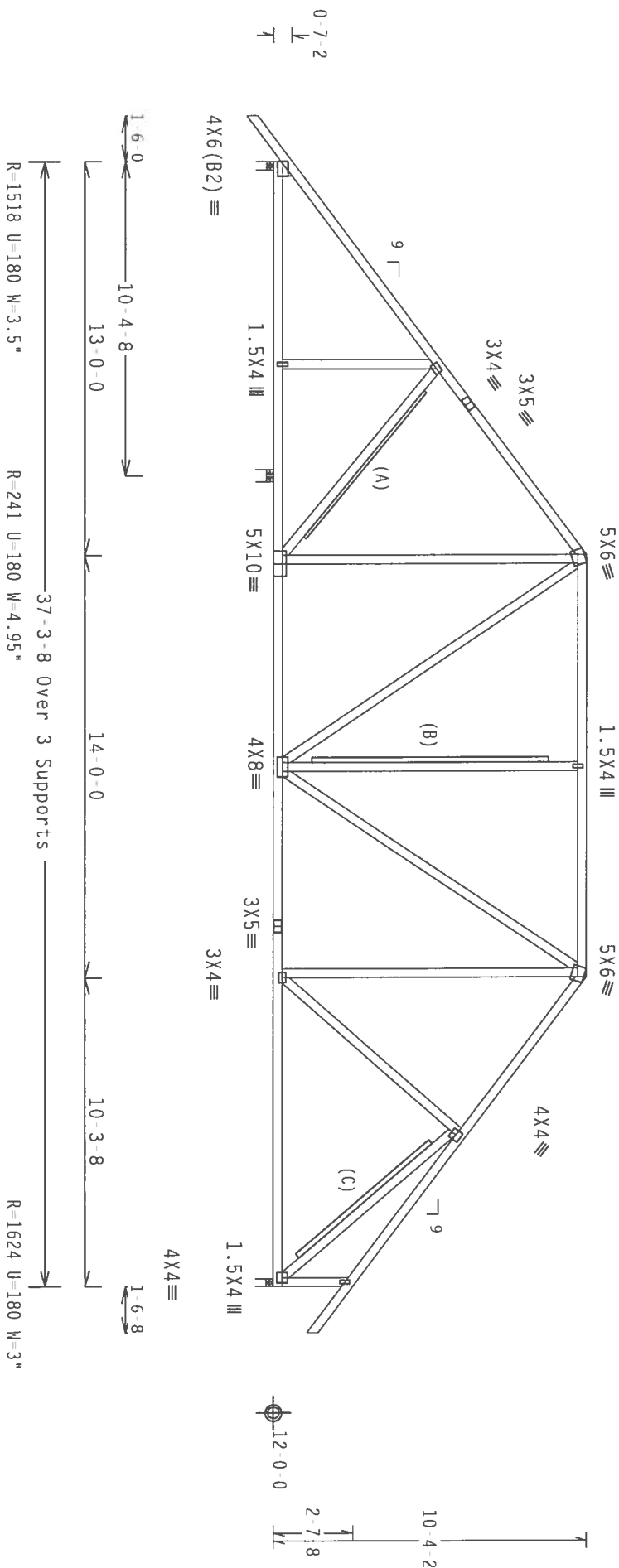
Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

110 mph wind, 16.91 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 exposed to wind pressure. Deflection meets  $L/240$  criteria for brittle and flexible wall coverings.

(B) 2x4 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.

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



PLT TYP. Wave

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

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

CONFIDENTIALITY: 1

FL/14/1/R/

Scale = .1875"/Ft.

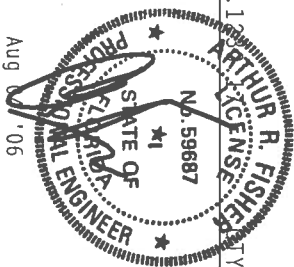


Alpine Engineered Products, Inc.  
1050 Madison Drive

1950 Mainway Drive  
Haines City, FL 33844

**\*\*WARNING\*\*** PRICES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PACKAGING RITE TO DESIG 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPT (TRUSS PANEL INSTITUTE), 5683 DORCHESTER DR., SUITE 200, HANSDEN, MI 57179; AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6700 ENTERPRISE BLVD., HANSDEN, MI 57179 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GIRDOR SHALL HAVE PROPERLY ATTACHED STRUCTURAL PARTS AND BOTTOM GIRDER SHALL HAVE A PROPERTY ATTACHED RIDGE CELLING.

**\*IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APPLICABLE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THIS DESIGN. ANY FAILURE TO BUILD TO THE SPECIFICATIONS WILL BE CONSIDERED AN ACT OF NEGLIGENCE. STEEL AND TYPICAL DIMENSIONS ARE GIVEN FOR DESIGNER'S COMPARISON ONLY. APPLICATION OF THIS DESIGN IS LEFT TO THE USER'S DISCRETION. ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE ALTERNATE DIMENSIONS. CORRELATOR PLATES ARE MADE OF 2010/1056A (F/H/S/F) ASH OR 663 GRADE .060/60 (F/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. TOP CHORD INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ALLOW AS OF REPT-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 67633
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCU8487 06216024
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121446
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1SZH487_201





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

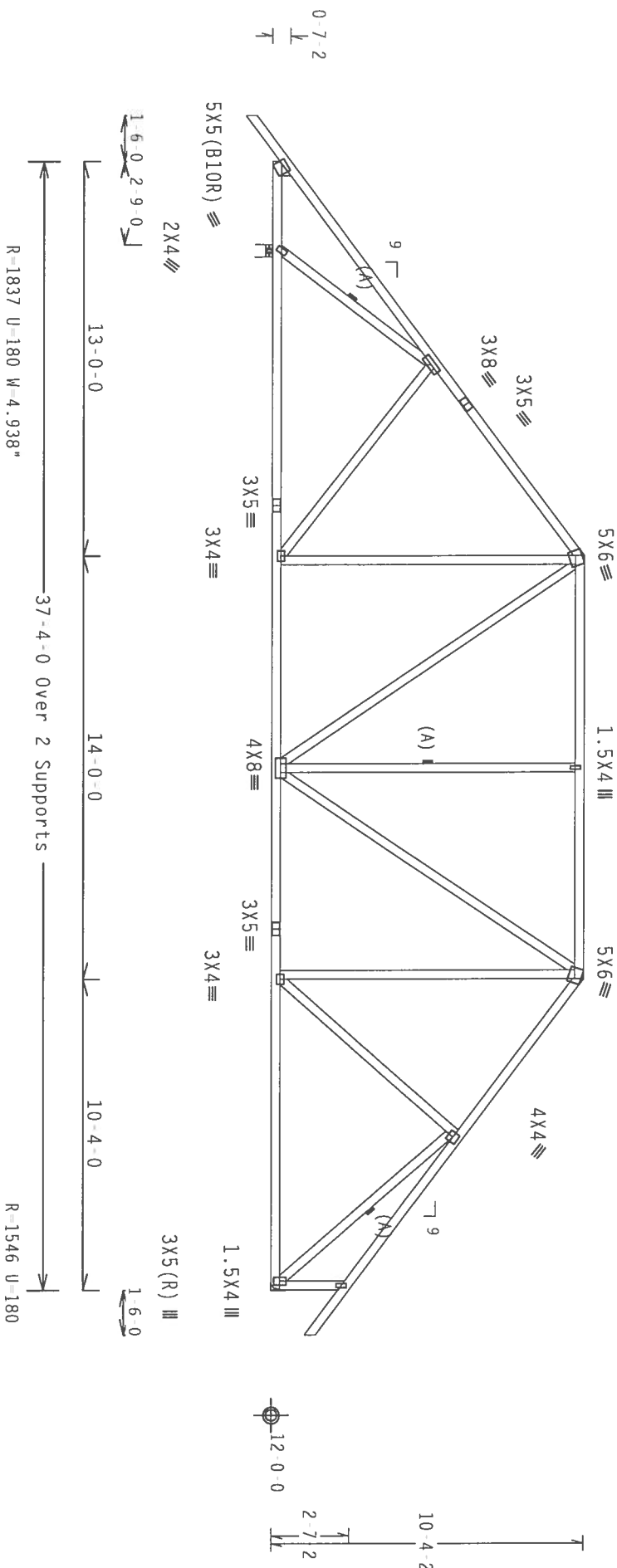
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 16.91 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 exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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



PLT TYP. Wave

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

FL/-/4/-/R/-

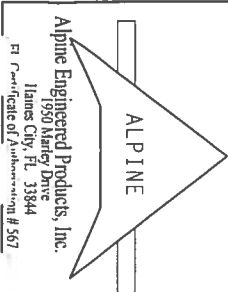
Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES. 1.03, CONTINUOUS COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 560 D'ORFORD DR., SUITE 200, MADISON, WI 53719, AND NCA (NATIONAL TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE BLVD., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

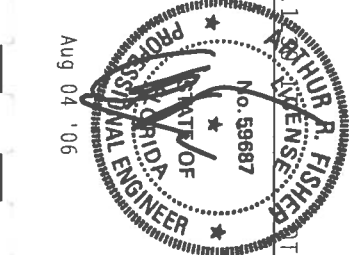
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

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/RAI) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (K, K/H, SI GALT, STEEL). APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES A3 OR TPI-1 2002 SEC.3.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AM3/TPI 1 SEC. 7.



ALPINE ENGINEERED PRODUCTS, INC. 1950 MONEY DRIVE JAMES CITY, FL 33844  
FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 67635
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUR487 06216026
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	121467
DUR. FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 201

110 mph wind, 16.16 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



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



Aug 04 '06

TC LL	20.0 PSF	REF	R487 - 67636
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216027
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121474
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 Z01

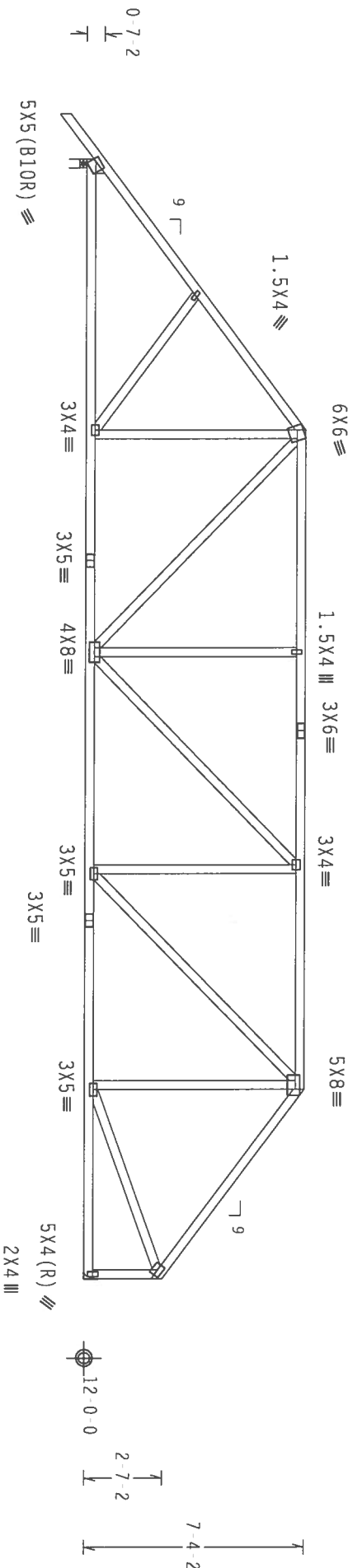
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Lt Wedge 2x4 SP #3:

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

110 mph wind, 15.41 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/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.

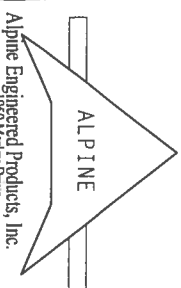


9'-0" 0  
22'-0" 0  
6'-4" 0  
37'-4" 0 Over 2 Supports  
R=1696 U=180 W=3.5"  
R=1583 U=180

PLT TYP. Wave

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTERIOR GUTTER, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ALPINE CONSTRUCTION PLATES ARE MADE OF 20/18/16GA (W/H/S/Y) ASH 4653 GRADE 40/60 (K/H/S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 43 OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN SIGNATURE INDICATES THE SUIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
Haines City, FL 33844  
Phone: 888-233-2333  
Fax: 888-233-2333



FL/4/-/-/R/-

Scale = .1875"/ft.

TC LL	20.0 PSF	REF R487 - 67637
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216028
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEON- 121482
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487 201

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

Bot chord 2x6 SP #1 Dense

Web 2x4 SP #3 :W9 2x4 SP #2 Dense:

:Lt Wedge 2x4 SP #3:

(A) Continuous lateral bracing equally spaced on member.

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

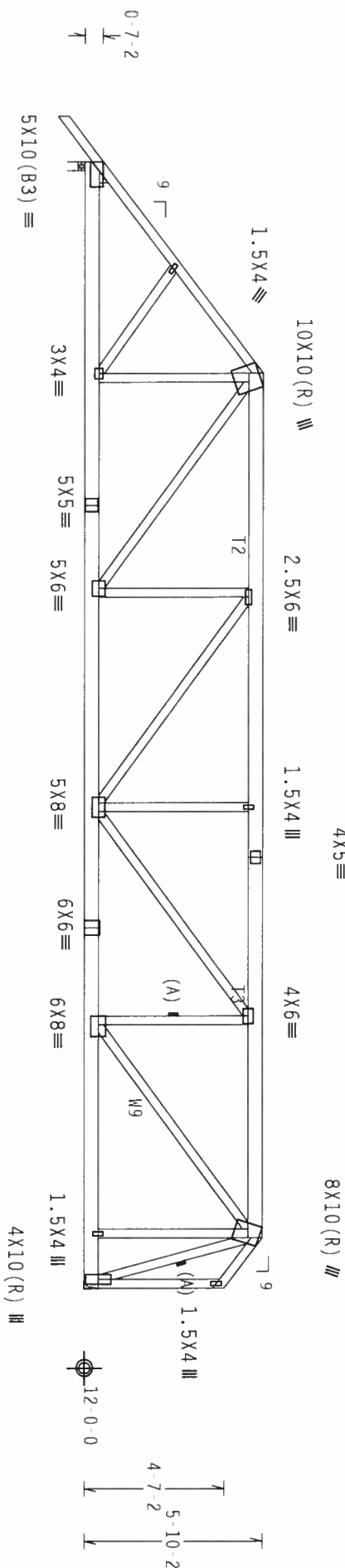
Left side jacks have 7'-0" setback with 0'-0" cant and 1'-6" overhang. End jacks have 7'-0" setback with 0'-0" cant and 1'-6" overhang. Right side jacks have 0'-0" setback with 0'-0" cant and 0'-0" overhang.

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

Right end vertical not exposed to wind pressure.

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

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



1-6-0  
7-0-0  
28-8-0  
1-8-0  
37-4-0 Over 2 Supports  
R=3288 U=238 W=3.5"  
R=3371 U=222

PLT TYP. Wave

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

FL/-/4/-/R/-

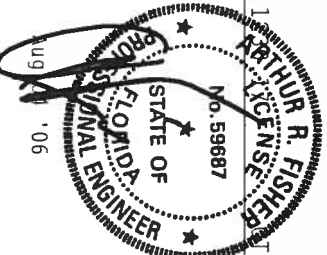
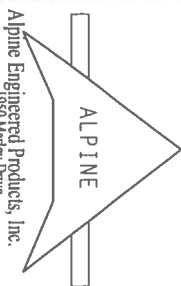
Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSS'S REQUIRED EXTERIOR GALT IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. REFER TO BCSE 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WCA GOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 2010/1604 (RHS/RS) ASH AND GRAD 40/60 (RHS/RS) GALV STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604 Z.

ANY IDENTIFICATION OF PLATES FOLLOWED BY (1) SHALL BE THE ANKER OF TPI 2002, SECTION 3 FOR THE TRUSS COMPANY'S DESIGN. THE SOLIDITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



SPACING	SFF ABOVE	JRFF- 1SZH487 201
DUR.FAC.	1.25	
TOT.LD.	40.0 PSF	SEQN- 121548
BC DL	10.0 PSF	HC-ENG TCE/AF
TC DL	10.0 PSF	DRW HCUR487 06216029
REF	R487 - 67638	DATE 08/04/06

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 65 PLF at -1.50 to 65 PLF at 7.00  
TC - From 63 PLF at 7.00 to 63 PLF at 32.77  
TC - From 63 PLF at 32.77 to 63 PLF at 34.13  
TC - From 65 PLF at 34.13 to 65 PLF at 41.67  
BC - From 5 PLF at -1.50 to 5 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 40.17  
BC - From 5 PLF at 40.17 to 5 PLF at 41.67  
TC - 204 LB Conc. Load at 7.06, 9.06, 11.06, 13.06, 15.06, 17.06, 19.06, 20.08, 21.10, 23.10, 25.10, 27.10, 29.10, 31.10  
TC - 351 LB Conc. Load at 33.10  
BC - 826 LB Conc. Load at 7.00  
BC - 80 LB Conc. Load at 9.06, 11.06, 13.06, 15.06, 17.06, 19.06, 20.08, 21.10, 23.10, 25.10, 27.10, 29.10, 31.10  
BC - 414 LB Conc. Load at 33.17

Provide connection for concentrated load(s) shown.

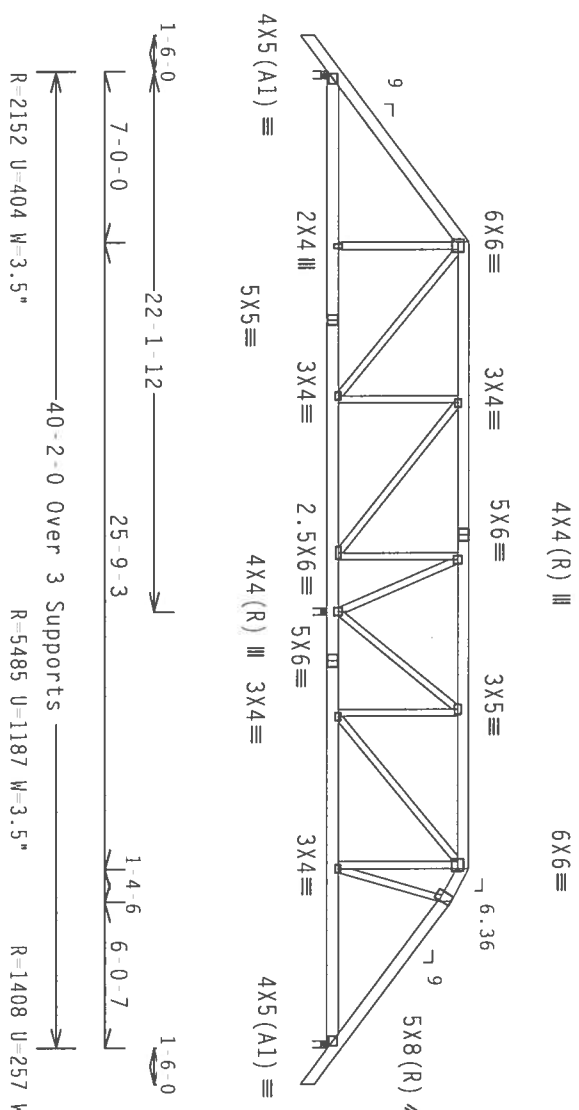
2 COMPLETE TRUSSES REQUIRED

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

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

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

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



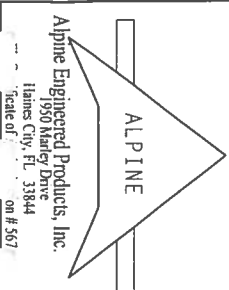
PLT TYP. Wave

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



FL/-/4/-/R/-

Scale = .125"/Ft.



\*\*WARNING\*\* TRUSSES REQUIRE EXISTING GALT IN FABRICATION, HANDLING, STORING, INSTALLING AND BRACING. REFER TO DESIGNER'S BUILDING COMPONENT SAFETY INFORMATION. PERMITTED BY TPI (TRUSS PLATE INSTITUTE, 583 BROADWAY DR., SUITE 200, HANSON, NH 03219) AND HICKS (HICKS TRUSS COMPANY, 6000 ENTERPRISE, HANSON, NH 03219) 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 2010 INTERNATIONAL DESIGN SPEC. BY ALPINE AND TPI. ALPINE CONSTRUCTION PLANS ARE MADE OF 70/10/10GA (4.0/5.0) ASTM A653 GRADE 40/60 (4.0/5.0) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INDICATION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN STEEL INSTITUTE (ASTM) SPEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SHEET FOR THE TRUSS COMPONENT BUILDING OR USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMERICAN STEEL INSTITUTE SPEC. 3.

TC LL	20.0 PSF	REF	R487--	67639
TC DL	10.0 PSF	DATE	08/04/06	
BC DL	10.0 PSF	DRW	HCUSR487	06216035
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	40.0 PSF	SEON	118446	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1SZH487	201

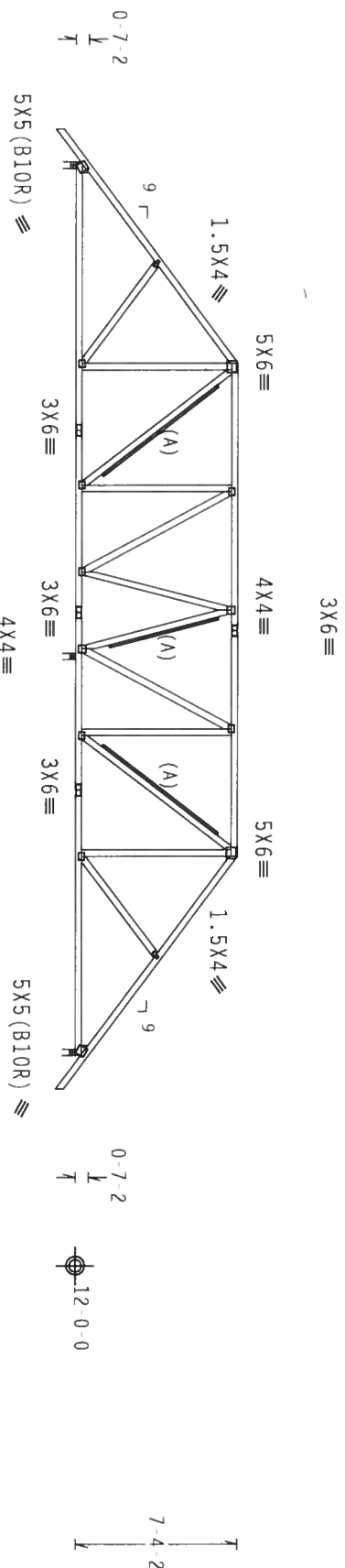
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

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

WARNING: THIS TRUSS MUST BE INSTALLED EXACTLY AS SHOWN.  
IT CAN NOT BE USED INSTALLED END-FOR-END.

110 mph wind, 15.41 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) 1x4 SP #3 or better "T" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



1'-6" 0  
9'-0" 0  
22'-1" 12  
22'-2" 0  
40'-2" 0 Over 3 Supports  
1'-6" 0  
9'-0" 0  
R=1020 U=180 W=3.5"  
R=1767 U=198 W=3.5"  
R=838 U=180 W=3.5"

Note: All Plates Are 3x4 Except As Shown.

PLT TYP. Wave

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

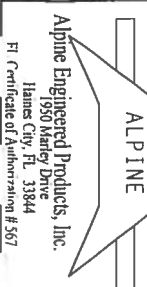
7.24.12

FL/-/4/-/R/-

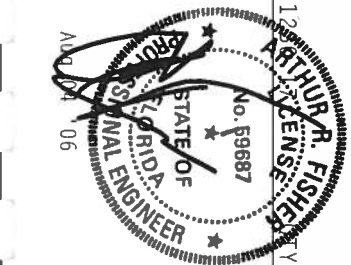
Scale = .125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BESET, INCLUDING CORRECT SAFETY INFORMATION, CONSULT WITH THE MANUFACTURER'S INSTRUCTIONS FOR PROPER TO BESET, SPLIT 200, HANDBOOK, HT 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA) GOOD PRACTICES TO HANDBOOK, HT 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (H/H/S/P) ASTM A653 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.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN ASSOCIATION OF ENGINEERS. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS THE SOCIETY'S LIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 7.



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



TC LL	20.0 PSF	REF	R487 - - 67640
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216036
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	121304
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1SZH487 201

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

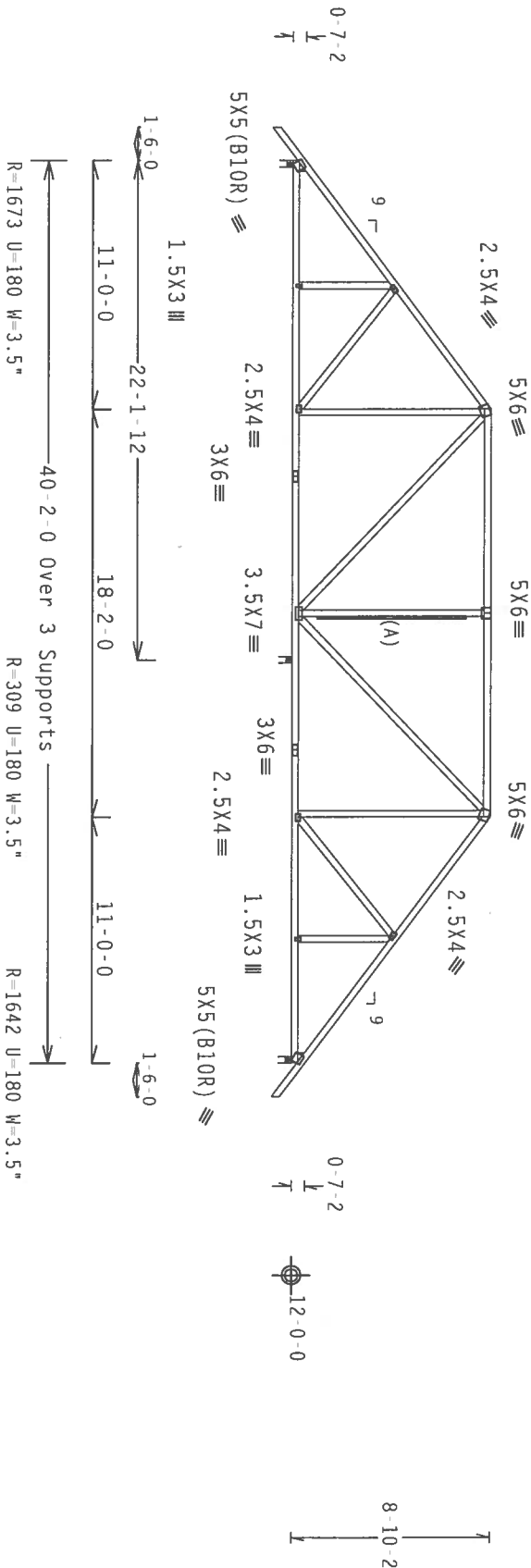
Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

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

110 mph wind, 16.16 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 6.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.

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

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



PLT TYP. Wave

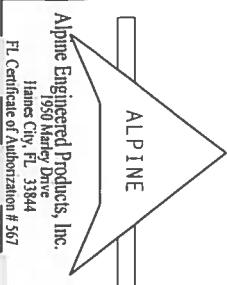
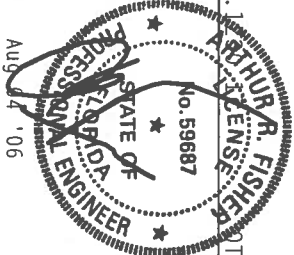
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7-24-11

Scale = .125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BEST PRACTICES (INCLUDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY THE TRUSS ASSOCIATION, 1000  
D'AMORE DR., SUITE 200, MADISON, WI 53719, AND AIAA (AIAA) TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE DR.,  
MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES,  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AIAA (AIAA) TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE DR.,  
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 Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
FL Certificate of Authorization #567

Aug 14 '06

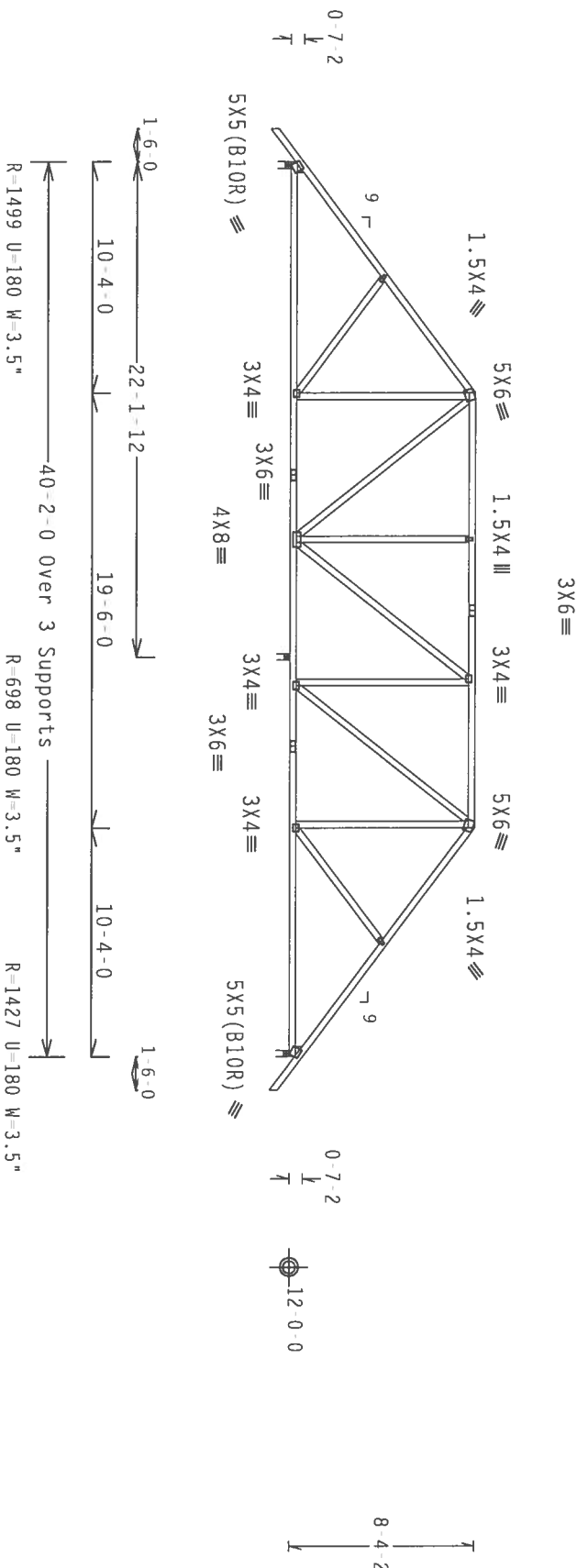
TC LL	20.0 PSF	REF R487 -- 67641
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216037
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 80672 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487 201



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

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

110 mph wind, 15.91 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

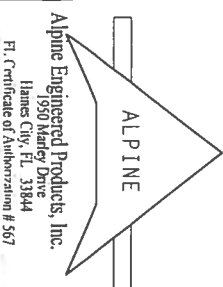
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

FL/-/4/-/R/-

Scale = .125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXISTING GUTTER FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BECA 1.03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE BUILDING RESEARCH CORPORATION, 1000 RIVER RD., SUITE 200, MADISON, WI 53719, AND WICK CHORD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 OR BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ALPINE) AND TPI-2002(STD)/FBC. CONSTRUCTION OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, AND 160B. CONSTRUCTION OF PLATES FOLLOWED BY (1) SHALL BE PER ALPINE AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE DESIGNER'S RESPONSIBILITY. SHEET FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 67642
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216039
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	121322
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 201

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

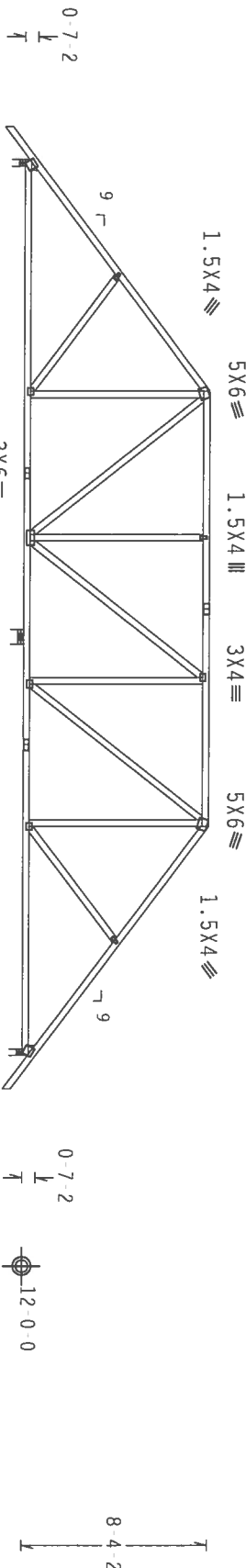
: Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

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

110 mph wind, 15.91 ft mean hgt, ASCE 7-02, CLOSED Bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

3X6≡



1-6-0  
10-4-0  
21-3-14  
19-6-0  
10-4-0  
1-6-0  
R=1603 U=180 W=3.5"  
40-2-0 Over 3 Supports  
R=447 U=180 W=7.75"  
R=1575 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

FL/-/4/-/R/-

Scale = .125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 10000 DORADO DR., SUITE 200, MADISON, WI 53719, AND NICKI GOOD TRUSS COUNCIL OF AMERICA, 6400 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 2018/1604 (N/A/S) ASH A653 GRADE 40/60 (K/1.5) GALV. STEEL. APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A Z.

ALPINE ENGINEERED PRODUCTS, INC. SHALL BE THE OWNER AS OF TPI-2002 SEC.3. A SEAL ON THIS

DRAWING INDICATES ACCEPTABLE FOR THE BUILDING COMPONENT DESIGN SIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

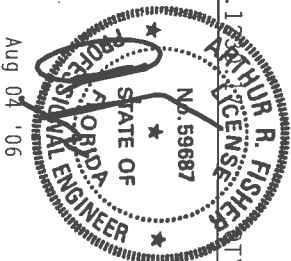
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.

James City, FL 33844

FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487-- 67643
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216040
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121332
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 201

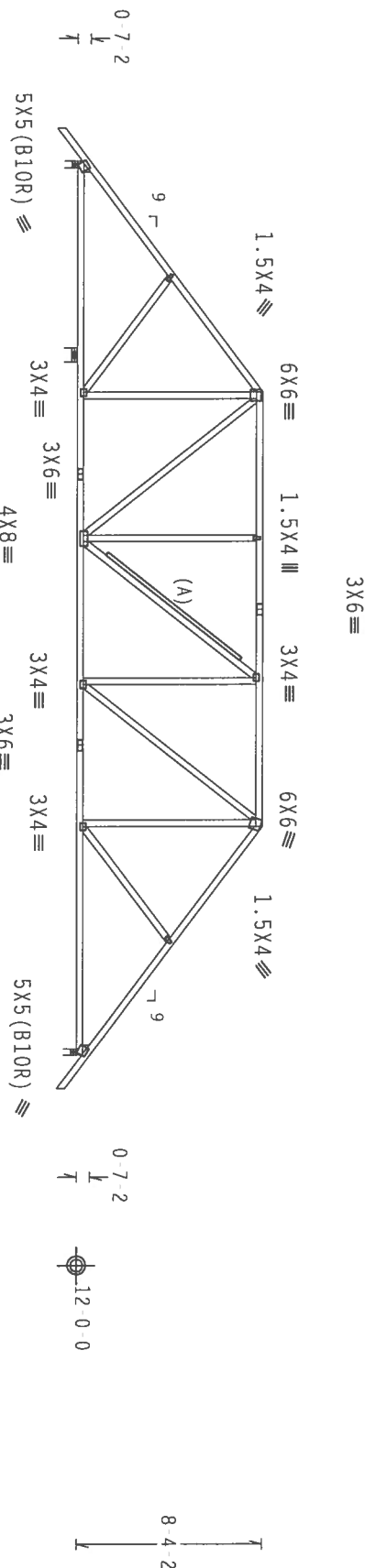
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

1Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

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

110 mph wind, 15.91 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 6.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf.

(A) 2x4 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.  
Deflection meets L/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.



1'-6" 0  
8'-7" 14" 1  
10'-4" 0  
19'-6" 0  
10'-4" 0  
1'-6" 0  
40'-2" 0 Over 3 Supports  
R=1536 U=206 W=3.5"  
R=352 U=180 W=7.75"  
R=1736 U=181 W=3.5"

PLT TYP. Wave

Design Cr1t: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10.0

7.24.1

Scale = .125"/ft.

\*\*WARNING\*\* TRUSSES, BEAMS, JOISTS, GIRDERS, ARCHES, COLUMNS, WALLS, AND OTHER STRUCTURAL MEMBERS SHALL BE DESIGNED TO RESIST ALL LOADS AND STRESSES IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DESIGN OR INSTALLATION CONTRACTOR.

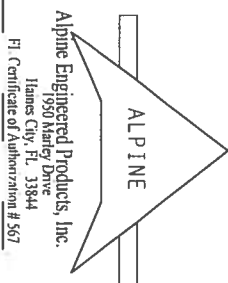
DESIGN CONTRACTOR WITH APPLICABLE PROVISIONS OF AISC 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

DESIGN CONTRACTOR WITH APPLICABLE PROVISIONS OF AISC 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

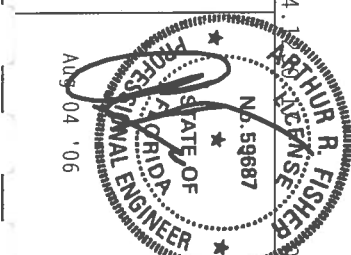
DESIGN CONTRACTOR WITH APPLICABLE PROVISIONS OF AISC 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

DESIGN CONTRACTOR WITH APPLICABLE PROVISIONS OF AISC 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

DESIGN CONTRACTOR WITH APPLICABLE PROVISIONS OF AISC 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.



ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DESIGN OR INSTALLATION CONTRACTOR.



TC LL	20.0 PSF	REF R487- 67644
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216041
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 121339
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487 201

TC LL	20.0 PSF	REF	R487 - 67645
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216042
BC LL	0.0 PSF	HC ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	121351
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SZH487 201



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:  
:W11 2x4 SP #2:

Left end vertical not exposed to wind pressure.

Calculated horizontal deflection is 0.15" due to live load and 0.21" due to dead load.

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

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

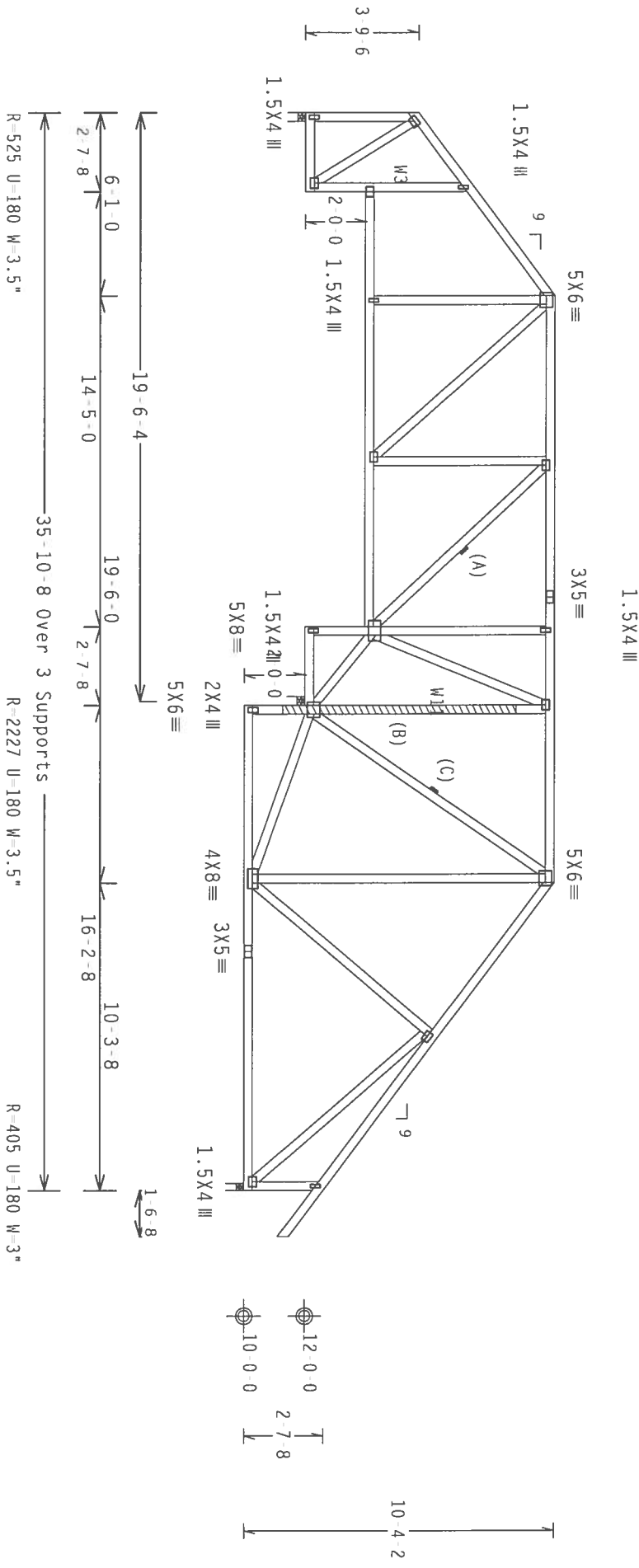
110 mph wind, 15.91 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.

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

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

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

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



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

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

FL/-/4/-/R/-

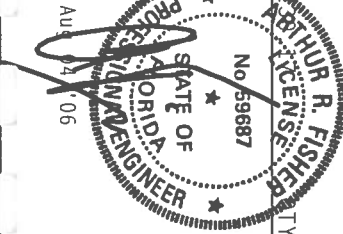
Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES ARE TO BE USED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS AND THE INSTRUCTIONS PROVIDED. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSSES.

ALPINE

Alpine Engineering Products, Inc.  
1950 Meyer Drive  
Haines City, FL 33844

Scale: 1/4" = 1'-0"



TC LL	20.0 PSF	REF R487 -- 67647
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216044
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEON- 121356
DUR. FAC.	1.25	
SPACING	24.0"	JRF- 1SZH/R7 Z01

**SPECIAL LOADS**  
 (1) UNIFORM RING FAC = 1.25 / PLATE RING FAC = 1.25

Provide connection for concentrated load(s) shown.



Design Crit: TPI-2002(STD)/FBC R=12846 U=2561

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

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

Alpine Engineered Products, Inc.  
1050 Madison Drive

1950 Mainly Drive  
Haines City, FL 33844  
Scale of A in #567

Nailling schedule: (10d\_common\_(0.148"x3",\_min.)\_na11s)

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

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

Bearing blocks: Nail type: 10d-Common-(0.148"x3"-min)-nails  
Rtg 1X-LOC #BLOCKS LENGTH/INLK #NAILS/INLK MATCH PLATE  
2 19.35 12 12

Refer to drawing CNBR5BL1103 for additional information.

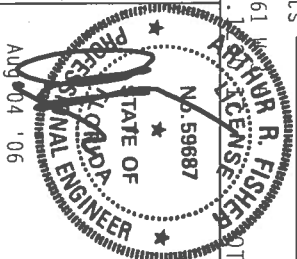
110 mph wind, 15.91 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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

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

Scale = .1875"/Ft.





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

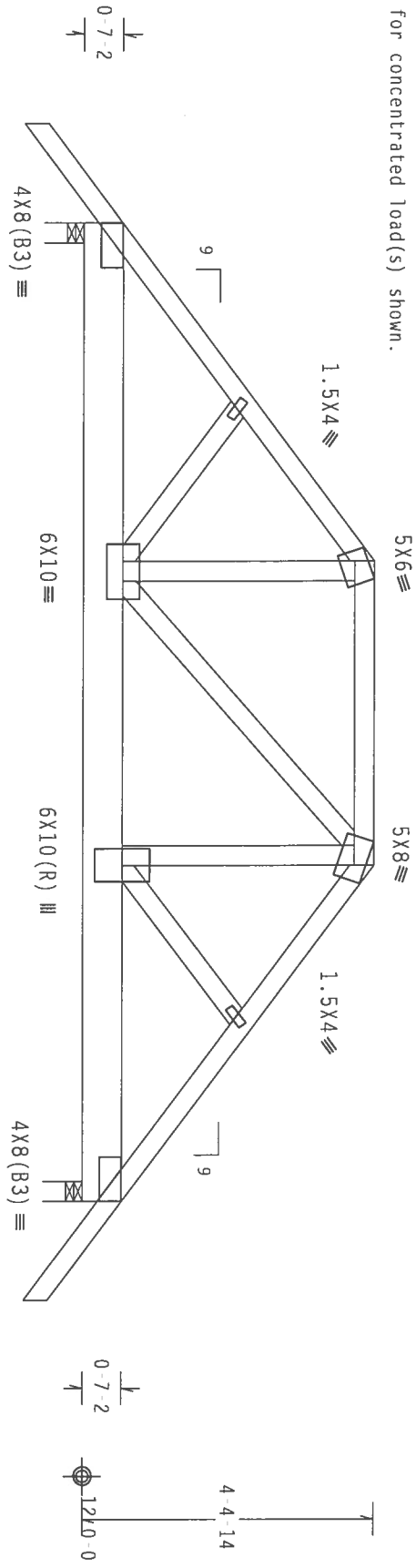
SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 65 PLF at -1.50 to 65 PLF at 16.25  
BC - From 5 PLF at -1.50 to 5 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 14.75  
BC - From 5 PLF at 14.75 to 5 PLF at 16.25  
TC - 416 LB Conc. Load at 5.08, 9.67  
TC - 155 LB Conc. Load at 7.15, 7.60  
BC - 168 LB Conc. Load at 5.08, 9.67  
BC - 3431 LB Conc. Load at 7.06  
BC - 60 LB Conc. Load at 7.60  
BC - 1583 LB Conc. Load at 9.06  
BC - 1565 LB Conc. Load at 11.06  
BC - 1435 LB Conc. Load at 13.06

Provide connection for concentrated load(s) shown.

2 COMPLETE TRUSSES REQUIRED

Nailling Schedule: (12d Common (0.148"x3.25", min.)\_nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @3.25" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.  
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



≤1-6-0  
5-1-0  
4-7-0  
5-1-0  
≤1-6-0  
R=4432 U=514 W=3.5"  
R=6583 U=731 W=3.5"

PLT TYP. Wave

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

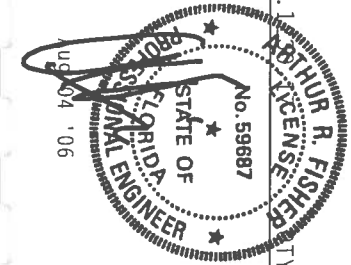
7.24.1

FL/-/4/-/R/-

Scale = .375"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TO PREVENT DAMAGE TO THE TRUSSES, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED: 1. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE WETNESS OR MOISTURE. 2. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE HEAT OR FIRE. 3. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE VIBRATION. 4. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE LOADS. 5. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE STRESS. 6. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE TENSION. 7. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE COMPRESSION. 8. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE BENDING. 9. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE TORSION. 10. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE SHEAR. 11. DO NOT ALLOW THE TRUSSES TO BE EXPOSED TO EXCESSIVE RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PAI AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (K/H/S/X) ASTM A653 GRADE 40/60 (K. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL OF PER AIA/PAI AND TPI. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/PAI AND TPI SEC. 7.



TC LL	20.0 PSF	REF R487-- 67649
BC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216047
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SECN- 118687
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487 201

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

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

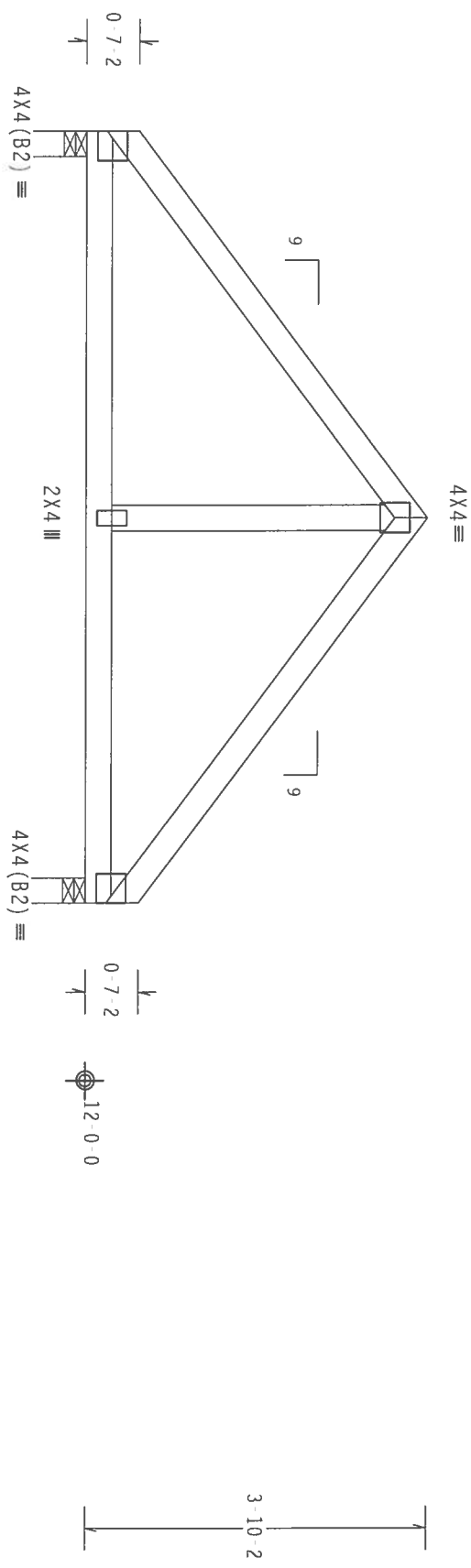
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 65 PLF at 0.00 to 65 PLF at 8.67  
BC - From 20 PLF at 0.00 to 20 PLF at 8.67  
BC - 218 LB Conc. Load at 2.10, 4.10, 4.56, 6.56

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

Provide connection for concentrated load(s) shown.



4-4-0 8-8-0 Over 2 Supports 4-4-0  
R=804 U=180 W=3.5" R=804 U=180 W=3.5"

PLT TYP. Wave

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

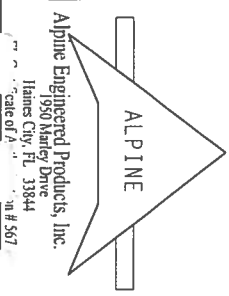
TY:1 FL/-/4/-/R/-

Scale = .5"/ft.

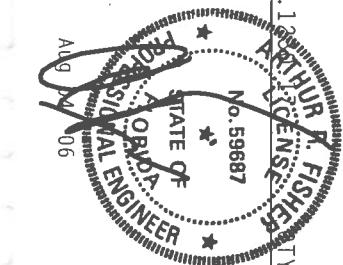
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE PROTECTED FROM EXCESSIVE MOISTURE, CORROSION, AND DAMAGE TO THE TRUSS PLATE. TRUSSES MUST BE PROTECTED FROM EXCESSIVE MOISTURE, CORROSION, AND DAMAGE TO THE TRUSS PLATE. TRUSSES MUST BE PROTECTED FROM EXCESSIVE MOISTURE, CORROSION, AND DAMAGE TO THE TRUSS PLATE.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI-2002. ALPINE TRUSSES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (K. K/H/S) GALV. STEEL. APPLY ALPINE TRUSSES 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 PERFORMED BY A QUALIFIED PERSONNEL (A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SOLE RESPONSIBILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI-1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI-2002. ALPINE TRUSSES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (K. K/H/S) GALV. STEEL. APPLY ALPINE TRUSSES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.



SPACING	24.0"	REF	R487	67650
DUR. FAC.	1.25	DATE	08/04/06	
TOT. LD.	40.0 PSF	DRW	HCSR487	06216048
BC DL	10.0 PSF	HC-ENG	TCE/AF	
BC LL	0.0 PSF	SECN-	118428	

JREF-1SZH487 201

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

Truss spaced at 24.0" OC designed to support 1-6.0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

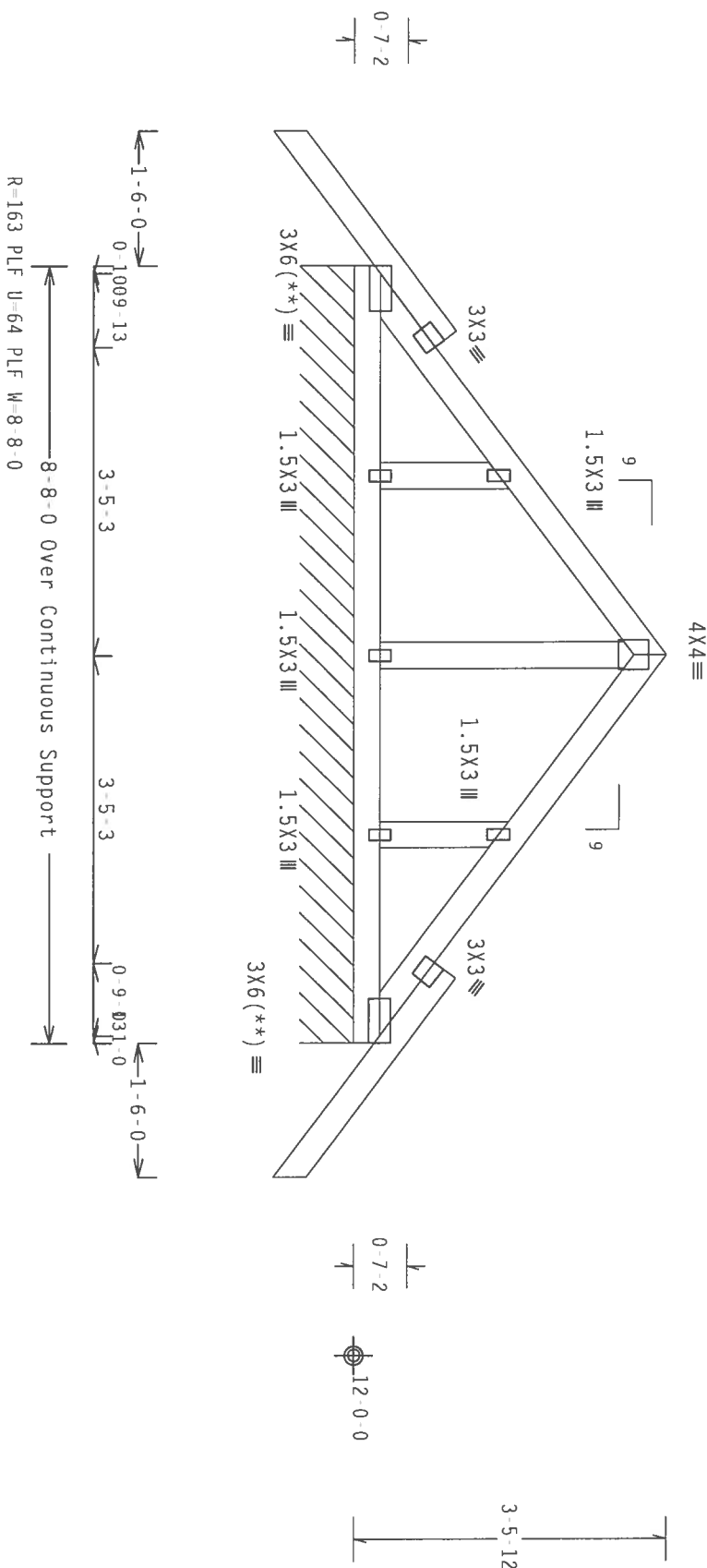
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

See DWGS A11015EE0405 & GBLLET1N0405 for more requirements.

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



PLT TYP. Wave

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

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

**STENSCH**

$$:1 \quad FL/-/4/-/-/R/-$$

Scale = .5" / Ft.

\*WARNING\* FIBERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIG 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATING INSTITUTE, 563 O'DONNOR RD., SUITE 200, HANSDEN, IL 53119) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 N. LAKE ST., SUITE 1800, CHICAGO, IL 60610) FOR SAFETY PRACTICES PERTAINING TO REINFORCING FIBER FUNCTIONS. THESE DISCREPANCIES INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TIGID CEILING.

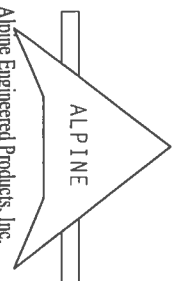
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

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

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

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

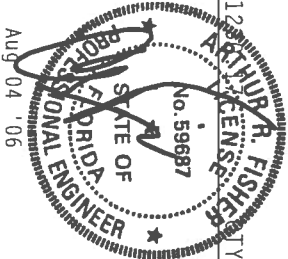
BUILDING DESIGNER PER ANSI/HPI 1 SEC. 2



Alpine Engineered Products, Inc.  
1650 Madison Drive

1700 Mainway Drive  
 Gaines City, FL 33844

in # 567



TC LL	20.0 PSF	REF	R487 - 67651
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216049
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	80675 REV
DUR.FAC.	1.25		
SPACING	SFF ABOVE	JRFF-	1SZH487 Z01

MR. KUSS BT SUBMITTED (KUSS & DIMENSION) INFO KUSS BT SUBMITTED

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.

(A) 1x4 Sp #3 or better "I" brace, 80% length of web member.  
Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.  
#1 hip supports 6-11-8 jacks w/2 panel TC and no end vert.

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

7.24.12

ITY: 1

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

Scale = .25"/Ft.

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

ALPINE ENGINEERING

Alpine Engineered Products, Inc.

-1950 Marley Drive  
Haines City FL 33844

300 # 567

[illegible]

SPACING ST- ABOVE

JR-F-15ZHA87-201

Deflection meets  $L/360$  live and  $L/240$  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



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

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

12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001

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

Scale = .25"/Ft.

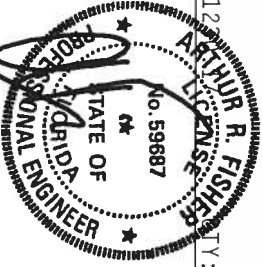
**\*WARNING\*** \*FIRMS REQUIRED EXERCISE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND DRABING REFER TO BGCI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI GROUPS MARKETING INSTITUTE, 583 D'AMICO RD., SUITE 206, MADISON, WI 53719, AND AICA (WOOD JOINT CONNECTION) OF AMERICA, 6500 ENTERPRISE BLVD., MADISON, WI 53719 FOR SAFETY PRACTICES PERTAIN TO REPAIRING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED BRIDGING.

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

ALPINE

Alpine Engineered Products, Inc.

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



TC LL	20.0 PSF	REF	R487 - - 67653
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCSR487 06216051
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN -	120645
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 Z01

[illegible]

110 mph wind, 16.16 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

Calculated horizontal deflection is 0.10" due to live load and 0.19" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-3-8 to 17-7-0.


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

4. I

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

Scale = .1875"/Ft.

No. 59687

ALPINE ENGINEERD

## OF TRUSSES.



Aug 04 '06

11

TC LL	20.0 PSF	REF R487 - 67654
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 0621605
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 120641
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1SZH487 201

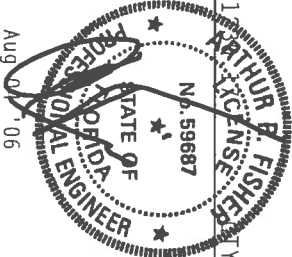
JRFF - 1SZH487 Z01

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 538 to 177-0.



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



TC LL	20.0 PSF	REF	R487 - 67655
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216053
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	120629
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 201

Top chord 2x8 SP SS :B3 2x4 SP #2 Dense:  
Bot chord 2x8 SP SS :B3 2x4 SP #3  
Webs 2x4 SP #3

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

Calculated horizontal deflection is 0.10" due to live load and 0.19" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-3-8 to 17-3-8.

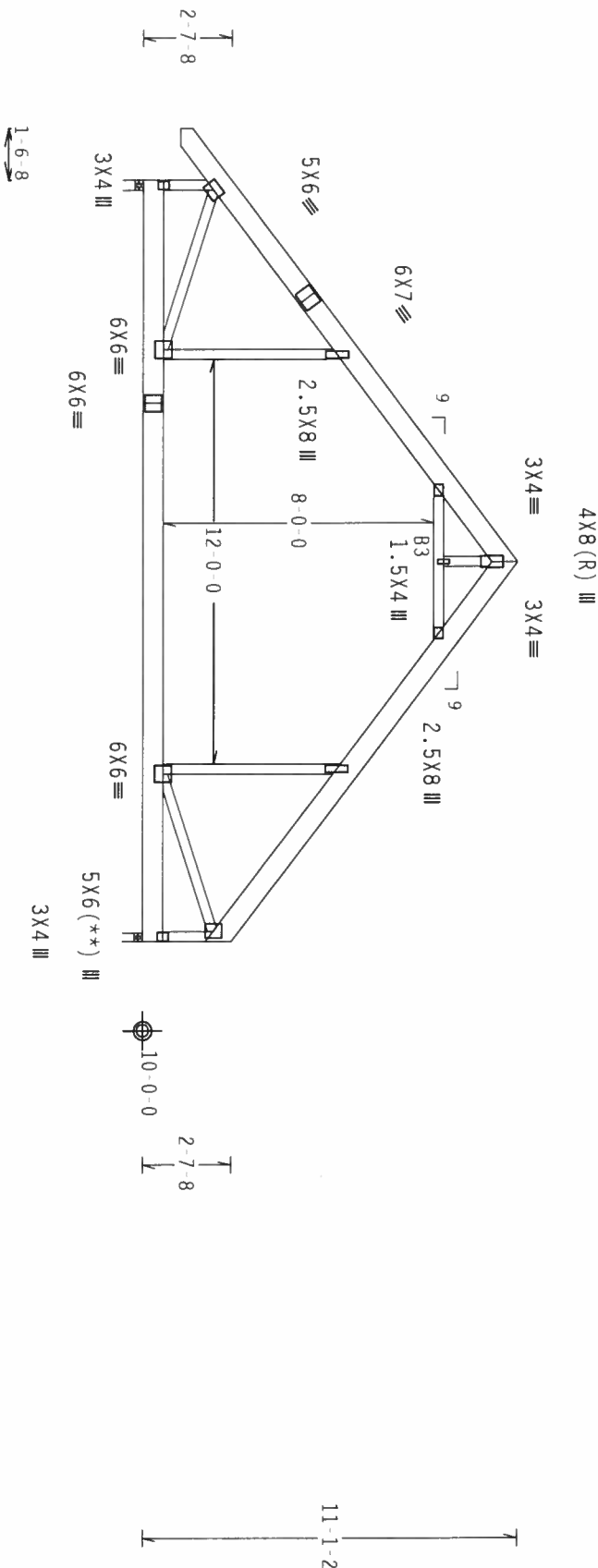
(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 16.28 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.

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

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



11-3-8  
8-11-12  
22-7-0 Over 2 Supports  
13-7-4  
11-3-8  
R=1907 U=180 W=3.5"  
R=1793 U=180 W=3"

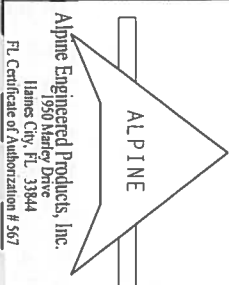
PLT TYP. Wave

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

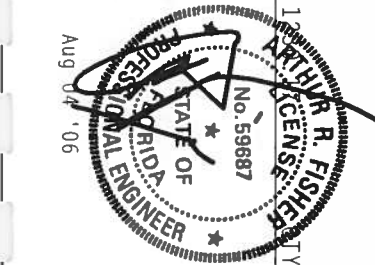
\*\*WARNING\*\* TRUSS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DETAIL 1.03 (BUILDING COMPLIANT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE - 983 DODGERS DR., SUITE 200, MADISON, WI 53719) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. - 530 N. DEARBORN, CHICAGO, IL 60610) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. - 530 N. DEARBORN, CHICAGO, IL 60610) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. - 530 N. DEARBORN, CHICAGO, IL 60610) 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 Mainway Drive, Illinois City, IL 33844  
FL Certificate of Authorization #567



FL	/	4	/	/	R	/	-
TC LL	20.0	PSF	REF	R487	-	67656	
TC DL	10.0	PSF	DATE	08/04/06			
BC DL	10.0	PSF	DRW	HCUSR487	06216054		
BC LL	0.0	PSF	HC-ENG	TCE/AF			
TOT.LD.	40.0	PSF	SEON	80678	REV		
DUR.FAC.	1.25						
SPACING	24.0	"	JRFF	-	1SZH487	201	

Scale = .1875" / Ft.



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

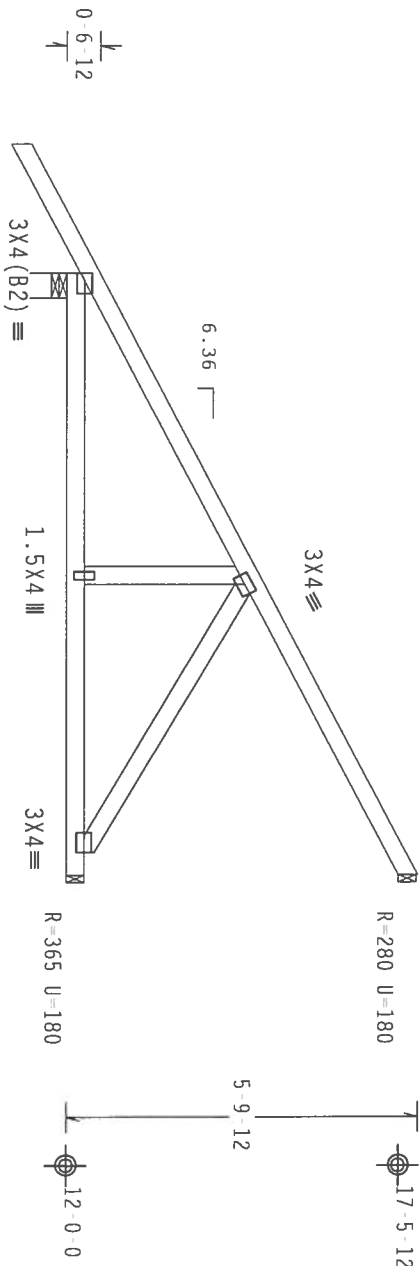
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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

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



2-1-7

9'-10.13" Over 3 Supports  
R=474 U=180 W=4.95"

PLT TYP. Wave

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

7.24.1

FL/4/-/R/-

20.0 PSF

Scale = .3125" / Ft.

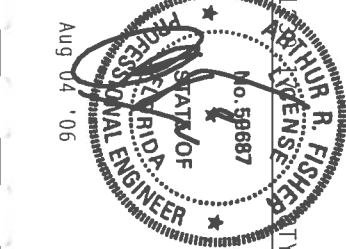
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 500 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND WFA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS TADA 2. APPLICATION OF PLATES TO TOP CHORD (T) SHALL BE PLACED AS SHOWN ON TPI-2002 (SEC. 3.3.3). FOR THE TOP CHORD THIS MEANS THE PLATES SHALL BE PLACED AS SHOWN ON TPI-2002 (SEC. 3.3.3). FOR THE BOTTOM CHORD THIS MEANS THE PLATES SHALL BE PLACED AS SHOWN ON TPI-2002 (SEC. 3.3.3). FOR THE TRUSS CHORDS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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



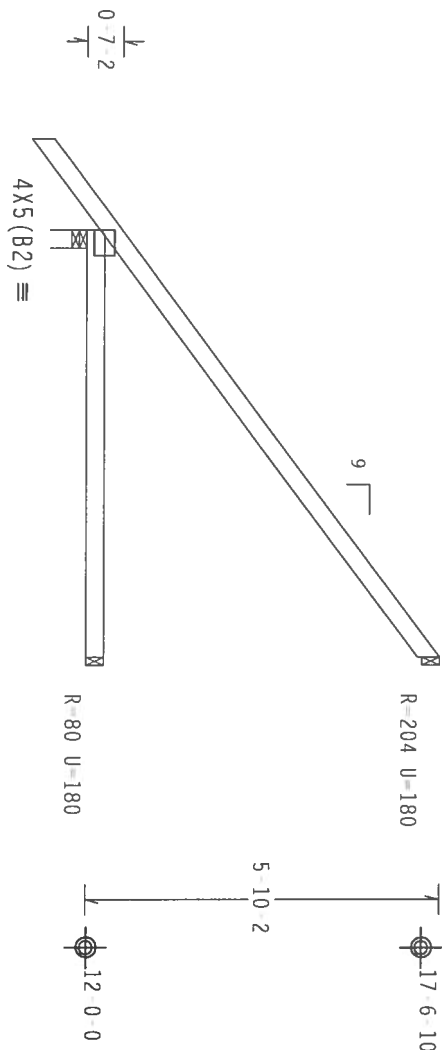
TC LL	20.0 PSF	REF	R487 - 67657
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216034
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON	118465
DUR.FAC.	1.25		
SPACING	SFF ABOVE	JRFF -	1S2H487 201

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

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

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

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



✓ 09-17

← 7'-0" Over 3 Supports →  
R=416 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

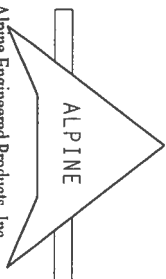
 $c_q/RT=1.00(1.25)/10(0)$ 

7.24.

THUR. R. FISHER  
LICENSE

TTY: 17 FL / - / 4 / - / - / R / -

Scale = .3125" / Ft.



Alpine Engineered Products, Inc.  
1050 Madison Drive

Haines City, FL 33844  
 Tel. 813/291-567

**\*WARNING\*** \*BIDDERS REQUIRE EXPLICIT CALL TO FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC-1 OR BUILDING COMPONENTS SPECIFICATION, FURNISHED BY TPI (TUBES WARE INSTITUTE, 503 O'CONNOR DR., SUITE 200, MADISON, WI 53719) FOR STEEL, WOOD TRUSS CONNECT, OR AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAW EYE 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 LIFT CLIPPING.

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

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

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

CONNECTOR PLATES ARE MADE OF 20/10/166A (H, H/5/K) ASTM A653 GRADE 40/60 (H, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND BRACES OUTRIGGER LOCATED ON THE DESIGN POSITION WITH BRACES ACROSS

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

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. SEE 1001.00 FOR FURTHER INFORMATION.

100

TC LL	20.0 PSF	REF	R487 - - 67658
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	H05R487 06216032
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	118304
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 Z01

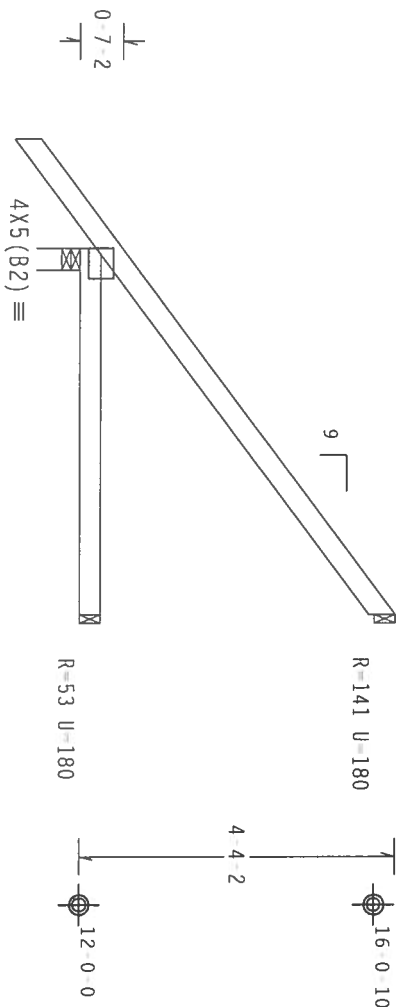
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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

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

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



≤ 1-6-0

≤ 5-0-0 Over 3 Supports →  
R-336 U=180 W=3.5"

PLT TYP. Wave

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

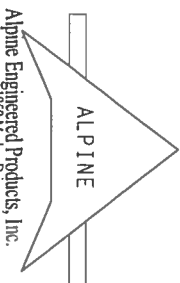
7.24.1

FL/-/4/-/R/-

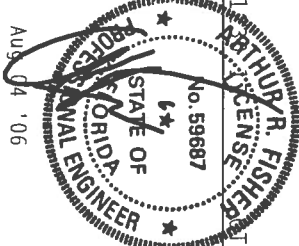
Scale = .375"/Ft.

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

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES,  
CONNECTION PLATES AND NAILS OF 20/10/10GA (W/S/R) ASTM A653 GRADE 40/70 (W, F/M/S) GALV. STEEL. ALPINE  
ENGINEERED PRODUCTS SHALL BE RESPONSIBLE FOR THIS DESIGN, POSITION PER DRAWINGS, TYP. 2,  
ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE CONSIDERED AS ACCEPTANCE OF THE TRUSS COMPONENT  
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
James City, FL 33844  
FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 67659
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216030
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	118297
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 Z01

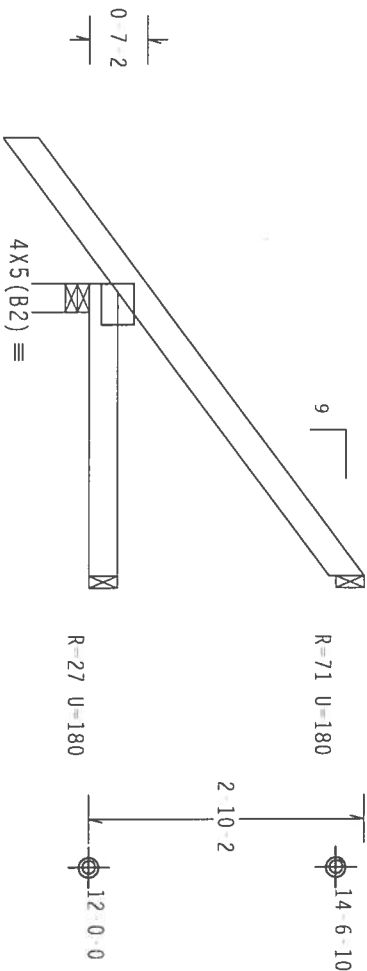
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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

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

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



←1-6-0→

3 0 0 Over 3 Supports  
R-262 U-180 W-3.5"

PLT TYP. Wave

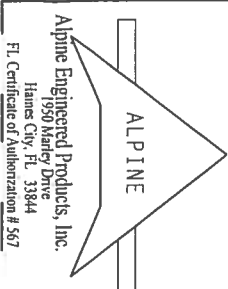
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

**\*\*WARNING\*\*** TRUSSES ROUTED EXISTING GABLE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO RES 1.03 (INCLUDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563  
B-CHURCH RD., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR.  
MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

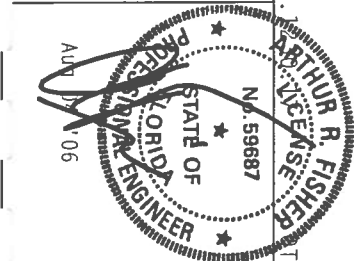
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES,  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ALPINE) AND TPI. ALPINE  
CONNECTION PLATES ARE MADE OF 20/18/16GA (W/S/VS WITH AGS) GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A &

ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERMITTED AS OF 1/1/1 2002 SEC 3. A SEAL ON THIS  
DESIGN INDICATES THE DESIGNER'S RESPONSIBILITY FOR THE TRUSS COMPONENT  
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TYPE: 6	FL / - / 4 / - / - / R / -	Scale = .5" / Ft.
TC LL	20.0 PSF	REF R487 - 67660
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216055
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 118266
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487 Z01

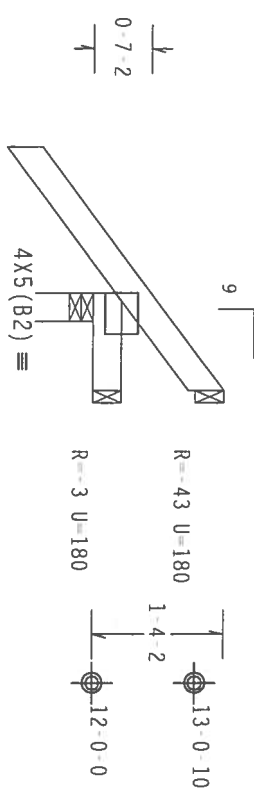
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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

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

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



1-6-0 over 3 supports  
R-236 U-180 W-3.5"

PLT TYP. Wave

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

7.24.1

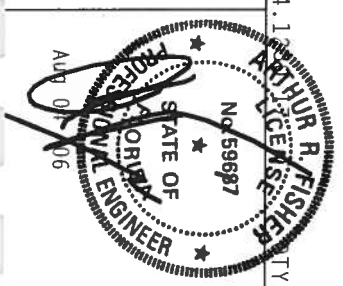
Scale =.5"/ft.

\*\*WARNING\*\* TRUSSES RIGIDLY ATTACHED TO EXISTING CEILING, FLOOR, WALL, OR FOUNDATION. REFER TO BC31.03 (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 560 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



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



TC LL	20.0 PSF	REF	R487-- 67661
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216056
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	118300
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 201

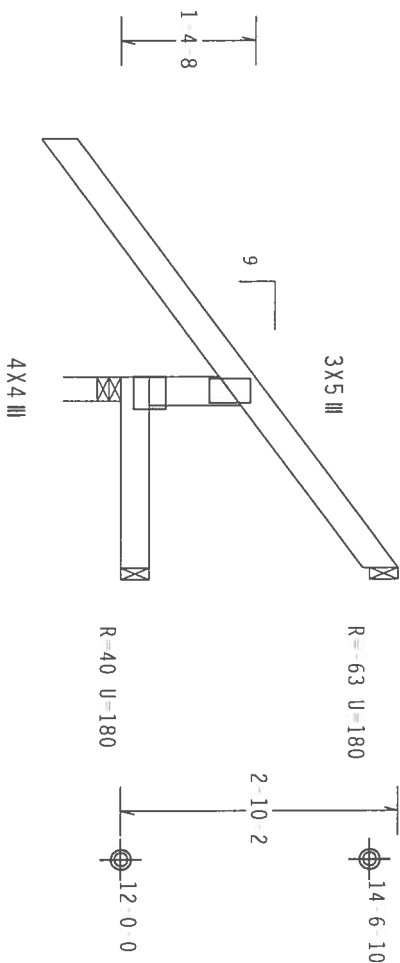
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#2	Dense

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

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

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

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



2 5 4

1-11.8 Over 3 Supports

R-360 U-180 W-3"

PLT TYP. Wave

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

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

7.24.

UNCLASSIFIED

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

Scale = .5"/Ft.

**WARNING:** THESE BUILDING EXISTENCE, CARE, MAINTENANCE, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BSCE 1.03 (REQUIRED COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATING INSTITUTE), 563 D-ORIOLE DR., SUITE 200, MODHSH, MI 53119, AND WEA (WOOD HOURS COUNCIL OF AMERICA), 6300 INTERSTATE 10, MODHSH, MI 53119, 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.

TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC BY AISC AND TPI

CONNECTOR PLATES ARE MADE OF 2018/16GA (H.11/S.K) ASH 1653 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-2.

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.  
1050 Madison Drive

1750 MAULEY DRIVE  
HAINES CITY, FL 33844  
FL Certificate of Authorization # 567

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Aug 04 '06

TC LL	20.0 PSF	REF R487 - 67662
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216057
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN - 121508
DUR.FAC.	1.25	
SPACING	24.0"	JRFF - 1SZH487 Z01

REF	R487 -	67662
DATE	08/04/06	
DRW	HCUSR487	06216057
HC-ENG	TCE/AF	
SEQN-	121508	
JRFF-	1SZH487	Z01

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

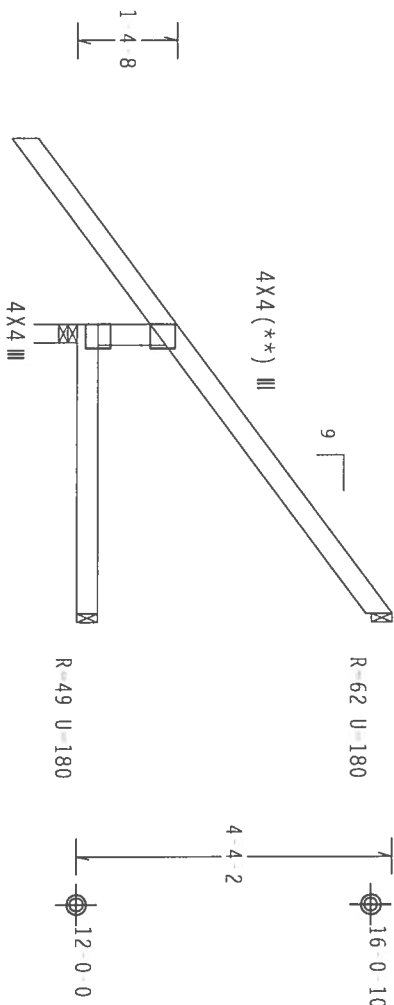
Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

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

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

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.



13 11 8 over 3 Supports  
R=403 U=180 W=3"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.

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

Scale = .375"/Ft.


**WARNING:** THESE PRACTICES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCCL 1.03 (BUILDING COMPONENT SAFETY INFORMATION), HIGHLIGHTED BY TPI (TROSS PRAISE INSTITUTE), 3653 D'ORNO ROAD, SUITE 200, MADISON, WI 53719, AND APCA (AMERICAN PAPER AND CHEMICAL ASSOCIATION), 6700 ENTERPRISE, IN MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS, AND BOTTOM CORD SHALL HAVE A PROPERLY ATTACHED TIDAL CILLING.

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

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

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

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



**Alpine Engineered Products, Inc.**  
 11405 Mary Drive  
 Dallas, TX 75244  
 Tel. (214) 343-8800  
 Telex 730000  
 Cable: ALPINE  
 In # 567

TC LL	20.0 PSF	REF	R487 - 67663
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216058
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	121502
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	1SZH487 Z01

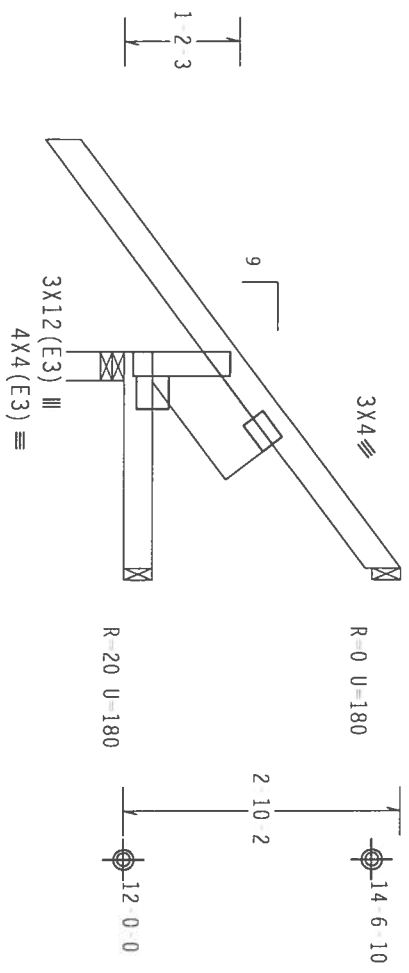
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
: Lt Slider 2x8 SP #1 Dense: BLOCK LENGTH = 1.500'

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

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

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

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



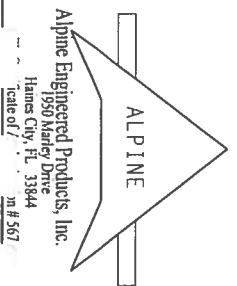
2-2-3  
2-2-10 Over 3 Supports  
R=322 U=180 W-3.493"

PLT TYP. Wave

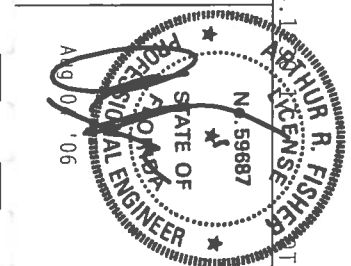
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

Scale = .5"/ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RESISTANCE RATING INFORMATION. TRUSSES SHOULD BE INSTALLED BY TPI-2002 (STD) OR TPI-2002 (FBC) IN CONFORMANCE WITH TPI-2002 (STD) OR TPI-2002 (FBC) OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THIS NATIONAL DESIGN SPEC. BY AIAA) AND TPI-2002 (FBC). TRUSSES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS TIGA 2. ALL TRUSSES SHALL BE PROTECTED BY (1) SHALL BE PER AIAA) AS IN TPI-2002 SEC.3. A SEAL ON THIS TRUSS INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SPECIFICATION. THE 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	67664
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW HCUSR487	06216059
BC LL	0.0 PSF	HC-ENG TCE/AF	
TOT.LD.	40.0 PSF	SEON-	118316
DUR.FAC.	1.25		
SPACING	24.0"	JRFF- 1S2H487	Z01



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.

SPECIAL LOADS				
	1	2	3	4
TC	From	63 PLF at -1.54 to	63 PLF at 7.21	
BC	From	5 PLF at -1.54 to	5 PLF at 0.00	
BC	From	20 PLF at 0.00 to	20 PLF at 7.21	
TC	2 LB Conc.	Load at 1.61		
TC	237 LB Conc.	Load at 4.44		
BC	54 LB Conc.	Load at 1.61		
BC	102 LB Conc.	Load at 4.44		

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

Provide connection for concentrated load(s) shown.



Design Crit: TPI-2002(STD)/FBC

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

7.24.12

FL/4/-/R/

Scale = .375"/ft.

\*\*\*WARNING\*\*\*: PRICES, REQUIRE, EXISTING, CARE, IN FABRICATION, MANUFACTURE, SHIPPING, INSTALLING, AND BRACING, REFER TO DCCL 1 TO (BUILDING, COMPONENT, SAFETY, INFORMATION). PUBLISHED BY IPT (THEORETICAL INSTITUTE), 503 D'ONOFIO RD., SUITE 200, MADISON, WI 53719, AND WPCA (WOOD TRUSS, CONNECTION, AMERICA), 6100 ENTERPRISE IN, MADISON, WI 53719, FOR SAFETY PRACTICES, PRIOR TO MEETING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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


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

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

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

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT IS THE RESPONSIBILITY OF THE OWNER. THE ARCHITECT HAS NO LIABILITY FOR THE LOSS OF OR DAMAGE TO THE BUILDING OR ITS CONTENTS.

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
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**Alpine Engineered Products, Inc.**  
 1980 Mariner Drive  
 Haines City, FL 33844  
 Telex 017 1000000  
 In # 567

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 55687, dated August 07, 2006.

FL / 4' - / R -		Scale = .375" / Ft.	
TC LL	20.0 PSF	REF	R487 - 67665
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216060
BC LL	0.0 PSF	HC - ENG	TCE / AF
TOT. LD.	40.0 PSF	SEQN	118426
DUR. FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 201

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

Calculated horizontal deflection is 0.18" due to live load and 0.11" due to dead load.

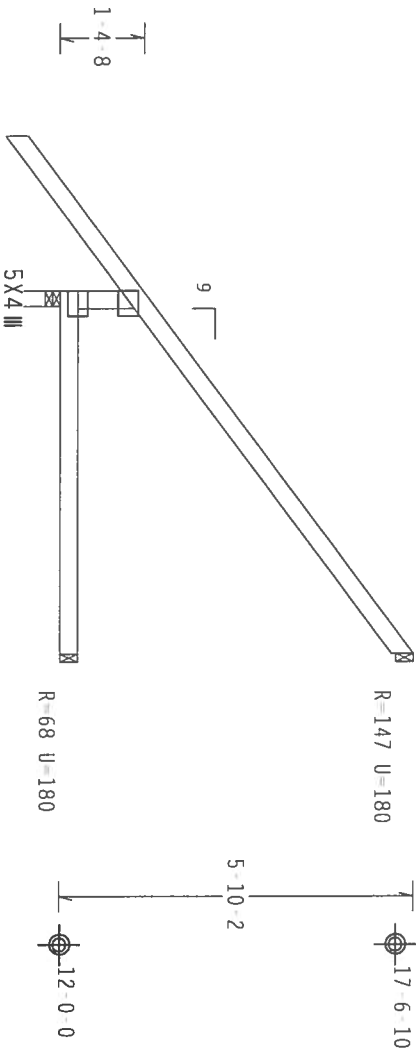
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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

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



2'-6'-8" →

5-11-8 Over 3 Supports →  
R=469 U=180 W=3"

PLT TYP. Wave

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

7.24.1

FL/-/4/-/R/-

Scale = .3125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PROVIDED BY TPI (TRUSS PLATE INSTALLATION), BSA (BUILDING SAFETY ASSOCIATION), SUITE 200, MADISON, WI 53719, AND WCA (WOOD CRAFTING ASSOCIATION), SUITE 100, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

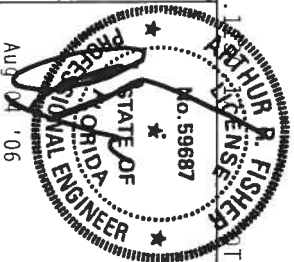
\*\*IMPORTANT\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

ALPINE ENGINEERED PRODUCTS, INC.

ALPINE

Alpine Engineered Products, Inc.  
1950 Marley Drive  
Tampa City, FL 33644

Date of: m #567



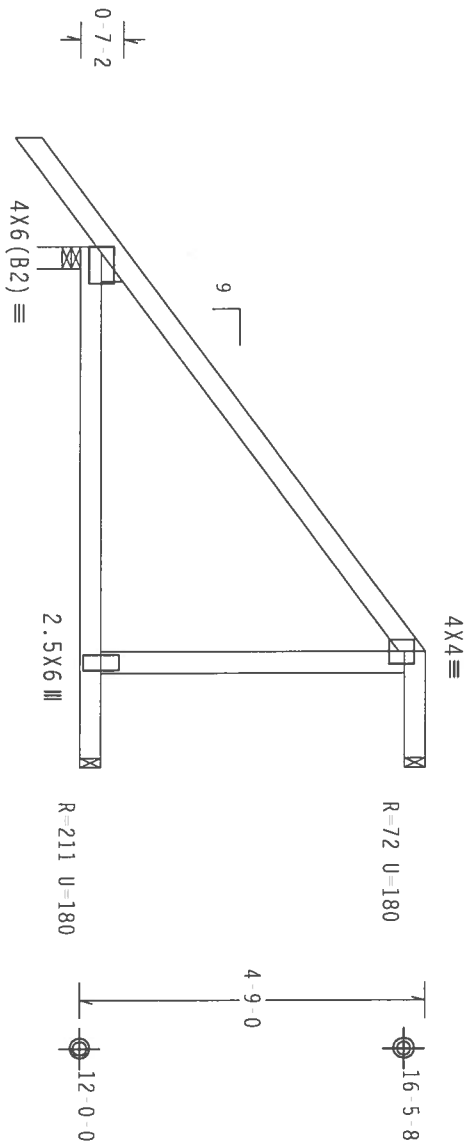
TC LL	20.0 PSF	REF	R487 - - 67666
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216061
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	121496
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 Z01



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

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

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



7-0-0 Over 3 Supports  
R-416 U=180 W=3.5"

PLT TYP. Wave

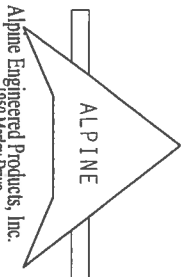
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10.0)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGN 101 (INCLUDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 500 PONDRIED DR., SUITE 200, HANSON, MI 48061) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BL, HANSON, MI 48061) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

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

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A 2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA AS OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SPECIFICATIONS. THE SEAL 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 #567



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

Scale = .375" / Ft.

TC LL	20.0 PSF	REF R487 - 67668
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216063
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEON- 121512
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZH487 201

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

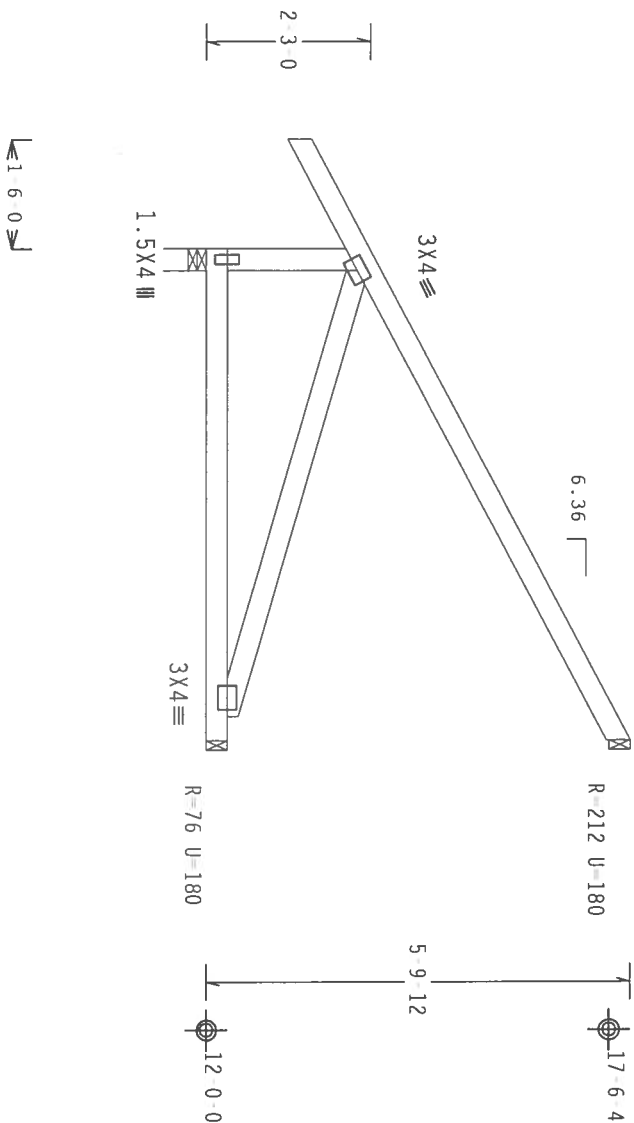
Hipjack supports 4-9-0 setback jacks with no webs.

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

110 mph wind, 15.63 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  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

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

7.24.12

FL/-/-/-/R/-

Scale = .375"/Ft.

\*WARNING\* \*\*PAPERS REQUIRE EXPERIENCE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC-1.0 (BUILDING EXPERIENCE IN SAFETY INFORMATION), CONSULTED BY IPI (IRONPS, MAIL, INSTITUTE), 563 O'DONNELL DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS CONSULT, OF AMERICA), 6500 E. ENDERBURY, MADISON, WI 53719 FOR SAFETY PRACTICES RELATIVE TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ICEBOLD CILLING.

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


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

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNE X A3 OF TPI1 2002 SEC 3. A STATE ON THIS

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

Journal of Management Education 36(10) 1039-1054



**ALPINE**  
**Engineered Products, Inc.**  
 1950 Alameda Drive  
 Gaines City, FL 33844  
 Telex 15 567  
 in # 567

TC LL	20.0 PSF	REF	R487 - 67669
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216033
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121281
DUR.FAC.	1.25		
SPACING	SFF ABOVE	JRFF-	1SZH487 Z01

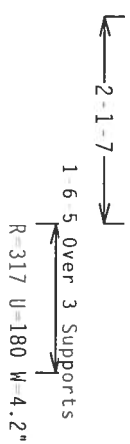
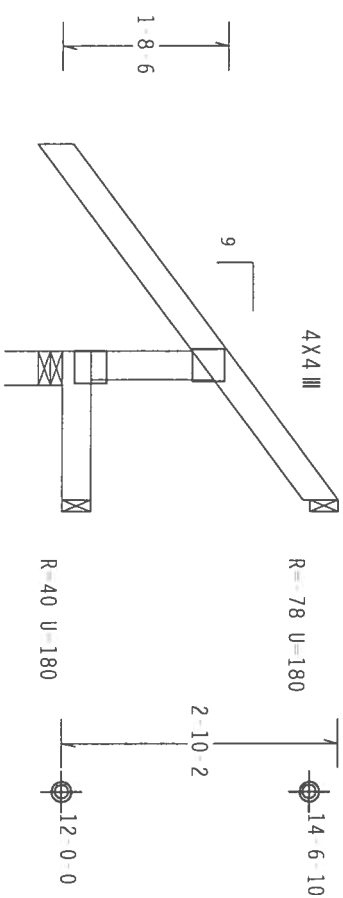
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #2 Dense

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

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

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

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



PLT TYP. Wave

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

7.24.1

Scale = .5"/ft.

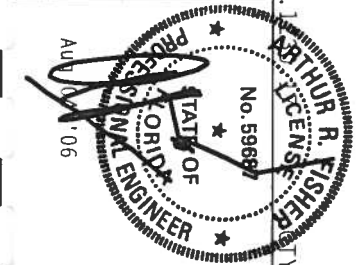
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 N. MICHIGAN AVE., SUITE 200, HANSON, MI 48219, AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.), 530 N. DEARBORN AVE., SUITE 100, HANSON, MI 48219 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AIA/PAI AND TPI. ALPINE CONTRACTOR NOTES ARE MADE OF 20/18/16GA (W/H/SX) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

SEAL OR PLATES FOLLOWED BY (1) SHALL BE PERMANENT AND OF TPI-1, 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES THE DESIGNER'S RESPONSIBILITY. A SEAL FOR THE TRUSS COMPONENT DESIGN SHOWN INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487-- 67670
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUR487 06216031
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	118294
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 201

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

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

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

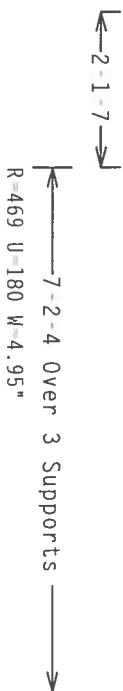
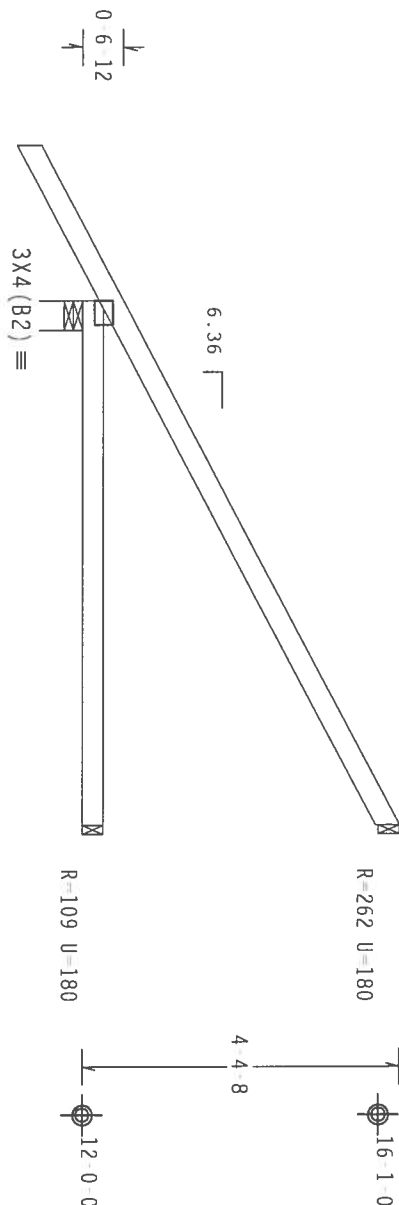
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Provide connection for concentrated load(s) shown.

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 63 PLF at 2.12 to 63 PLF at 7.19  
BC - From 5 PLF at 2.12 to 5 PLF at 0.00  
TC - From 20 PLF at 0.00 to 20 PLF at 7.19  
BC - From 86 LB Conc. load at 1.48  
TC - 142 LB Conc. load at 4.31  
BC - 6 LB Conc. load at 1.48  
BC - 53 LB Conc. load at 4.31

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)

7.24.1

QTY: 2

FL/-/4/-/R/-

Scale = .375"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, 2005. THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER BRACING OF THE TRUSS. THE TRUSS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

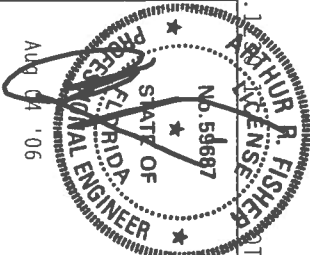
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 13TH EDITION, 2005. THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER BRACING OF THE TRUSS. THE TRUSS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

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

Job #567



TC LL	20.0 PSF	REF R487 - 67671
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216046
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 118424
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZH487 201

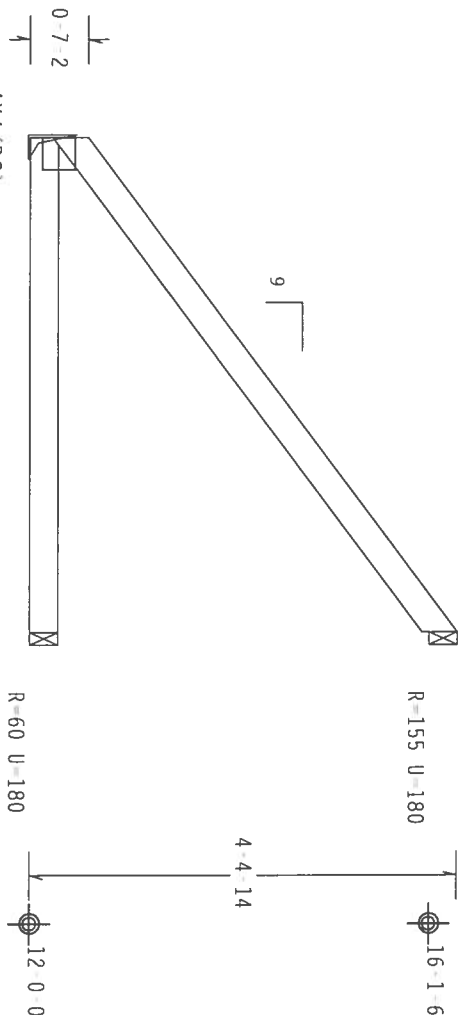
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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

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

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



5-1-0 Over 3 Supports  
R 218 U-180

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24

QTY: 4

FL/-/4/-/R/-

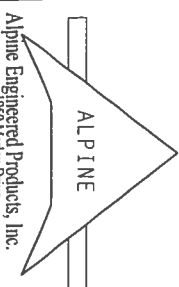
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES INCLUDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI AND AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 1300 MARKET STREET, PITTSBURGH, PA 15203. 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\*\*** FINISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONSTRUCTION PLANS ARE MADE OF 20/18/16GA (W.U./S/S) ASH ASKS 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 TADA 2.

ALL TRUSSES SHALL BE INSPECTED BY (1) SHALL BE PER AMER. AS OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN. THE SEAL IS NOT TO BE USED FOR THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMER. TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 67672
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216045
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON	121517
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	15ZHA87 Z01



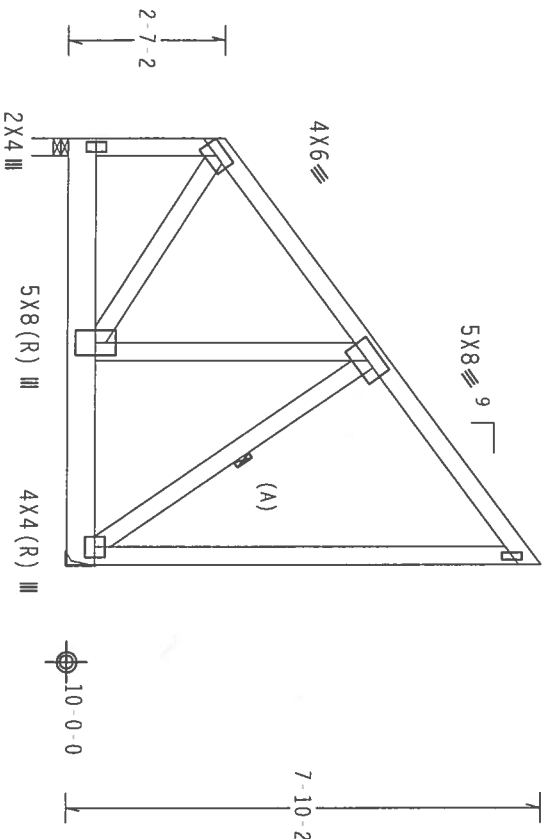
מק. כנען ב' סיון תשס"ב (KANEK & SONS) ופני אקוויטרי פאר שפארטס גוטן

110 mph wind, 15.22 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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

1.5X4 III



SPECIAL LOADS			
	(LUMBER	DUR.FAC.=1.25	/ PLATE DUR.FAC.=1.25)
TC	From	65 PLF at 0.00 to	65 PLF at 7.00
BC	From	20 PLF at 0.00 to	20 PLF at 7.00
BC	213 LB Conc.	Load at	1.09
BC	2185 LB Conc.	load at	3.06
BC	861 LB Conc.	Load at	5.06

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

Provide connection for concentrated load(s) shown.

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

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

12/15/17

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

Scale = .3125"/Ft.

$\leftarrow 7-0-0$  Over 2 Supports  $\rightarrow$   
 $R=1944$   $U=338$   $W=3.5''$   $R=1909$   $U=305$

\*WARNING\*\* FRILES REQUIRE EXTENSIVE CARE IN INFORMATION, HANDLING, SHIPPING, INSTALLING AND PRACTICE. REFER TO NCST 1-103 (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PRACTICE INSTITUTE), 6200 DONOR DR., SUITE 200, HAVESON, WI 53719, AND NICA (WOOD TRUSS COUNCIL), 6700 ENTERPRISE BLVD, HAVESON, 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.**

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

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

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

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

BUILDING DESIGNER PLR ANSI/ISO 1 SEC. 2.



ALPINE

Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines Fl. 33844

Circle 567 on Reader Service Card

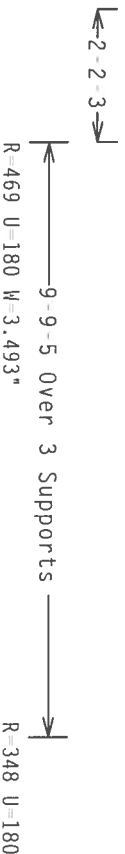
TC LL	20.0 PSF	REF	R487 - 67673
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216004
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	118494
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH4R7 201

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

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

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

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



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

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

7.24.

QTY:3

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

Scale = .3125"/Ft.

<b>*WARNING*</b>	THIS IS A DANGEROUS EXTREMELY TOXIC INFLAMMATORY AND IRRITANT	HANDS,	SLEEPING,	EATING, DRINKING,
REFER TO MSDS FOR ADDITIONAL COMPOUND SAFETY INFORMATION.	POLISHED BY JPI CHESSING PLAST INSTITUTE, 963			
DONORIO RD., SUITE 200, MADISON, WI 53729, AND VICA GROUND PAPER'S DIRECT OF AMERICA, 6780 INTERSTATE N.				
MADISON, WI 53729) FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE 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.**

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

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

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

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

[illegible]

**ALPINE**

**Alpine Engineered Products, Inc.**  
James City, FL 33844  
1950 Kaley Drive  
Phone (813) 291-1100  
Telex 154140  
Fax (813) 291-1101  
Circle # 567

TC LL	20.0 PSF	REF	R487 - 67674
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCSH487 06216064
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	120540
DUR.FAC.	1.25		
SPACING	SFF ABOVE	JRFF-	1SZH487 Z01

(6 268 - Glenwood King Gray . \*\* - EJR)

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #2 Dense :W2 2x4 SP #3:

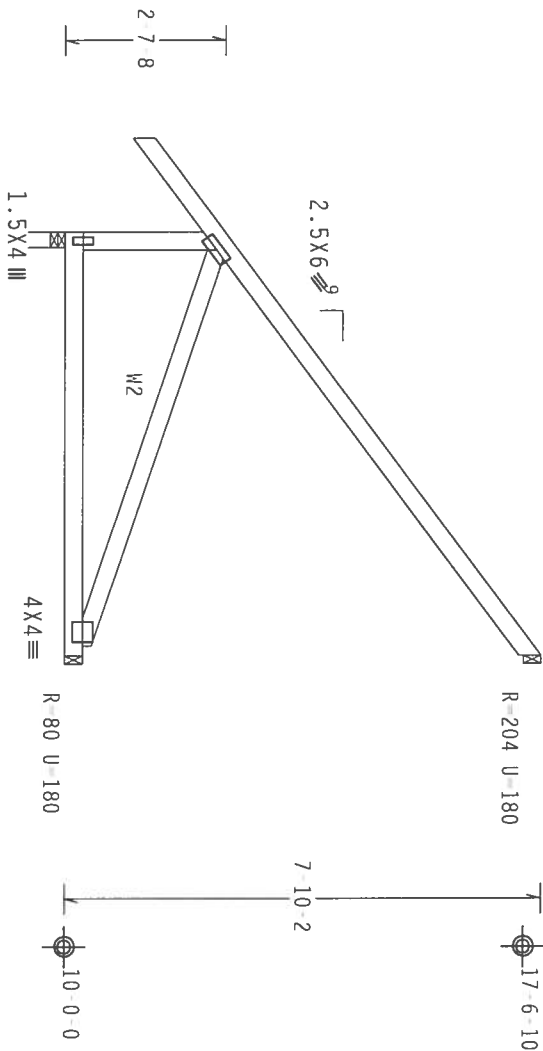
Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

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

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

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

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.



6-11-8 Over 3 Supports  
R=416 U=180 W=3"

PLT TYP. Wave

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

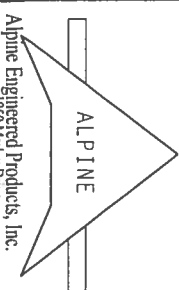
7.24.12

Scale = .3125"/ft.

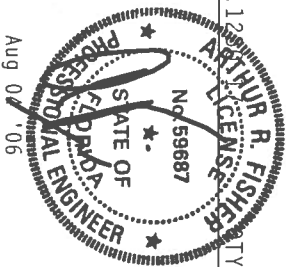
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'OHORIO DR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THIS (NATIONAL DESIGN SPEC. BY AIA/AS) AND TPI. APPLICABLE CONNECTIONS ARE MADE OF 20/18/10GA (T/H/S/2) WITH 4653 GRADE 40/60 (K, R/S) GALV. STEEL. APPLY ALL TYPICAL CONNECTIONS AND BRACING DETAILING LOCATED ON THIS DESIGN. PROVISION PER DRAWINGS 160A-Z.

ANY DEVIATION OF THIS DESIGN, BY THE INSTALLATION CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY IS SOLELY FOR THE TRUSSES COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



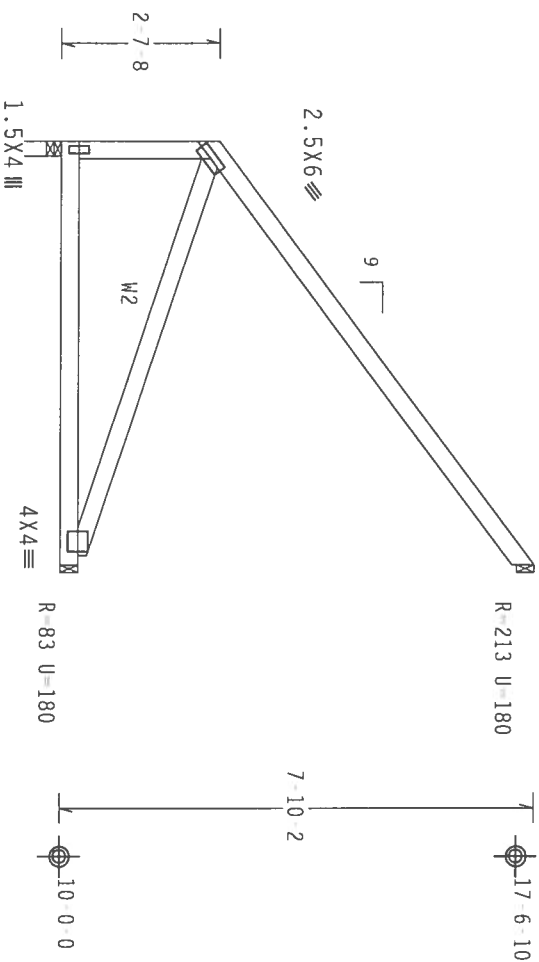
Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone # 567



TC LL	20.0 PSF	REF R487 - 67675
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216005
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON 120685
DUR.FAC.	1.25	
SPACING	24.0"	JRFF-1SZH487 201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #2 Dense :W2 2x4 SP #3:  
Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.  
Deflection meets L/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.

110 mph wind, 15.23 ft mean hgt, ASCE 7-02, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,  
wind BC DL=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.

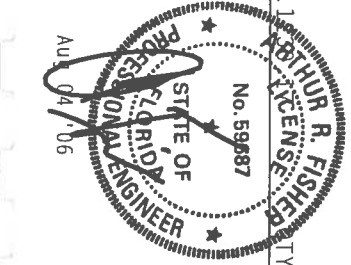
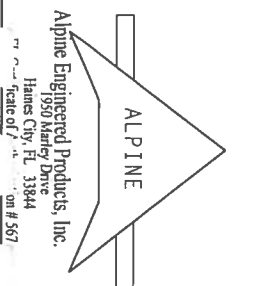


6-11-8 Over 3 Supports  
R-296 U-180 W=3"

PLT TYP. Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)  
7.24.1  
Scale = .3125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PROTECT ALL EXPOSED SURFACES FROM DAMAGE. DO NOT ALLOW TRUSSES TO BE EXPOSED TO WEATHER. DO NOT ALLOW TRUSSES TO BE EXPOSED TO MOISTURE. DO NOT ALLOW TRUSSES TO BE EXPOSED TO SOLAR RADIATION. DO NOT ALLOW TRUSSES TO BE EXPOSED TO OZONE. DO NOT ALLOW TRUSSES TO BE EXPOSED TO OTHER HAZARDOUS MATERIALS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



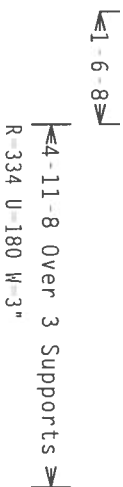
TC LL	20.0 PSF	REF R487-- 67676
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216065
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 120678
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZH487 201



110 mph wind, 15.00 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 1I, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

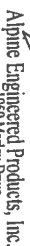
In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.

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

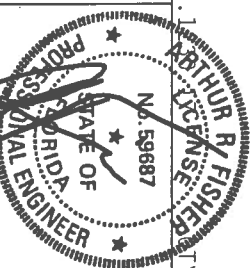


Scale = .375"/Ft.

CONCRETE FOR PLATES, TENDON OR  $\Delta$ OR/BEAM (E-10/ST/ST) AS A663 GRADE, 40/50 PSI, 70/80 PSI, WATER, STEEL, PLATES TO EACH FACE OF TROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS TENDON 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY AN RSW AS OF TP11 2002 SEC. 3. DRAWING INDICATES ACCEPTANCE OF PROVISIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. DISTINGUISHING THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TP11 SEC. 2.



1930 Marney Drive  
Haines City, FL 33844  
"Scale of A..." in #567



TC LL	20.0 PSF	REF	R487 - 67678
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216067
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	120527
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 Z01

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

Left end vertical not exposed to wind pressure.

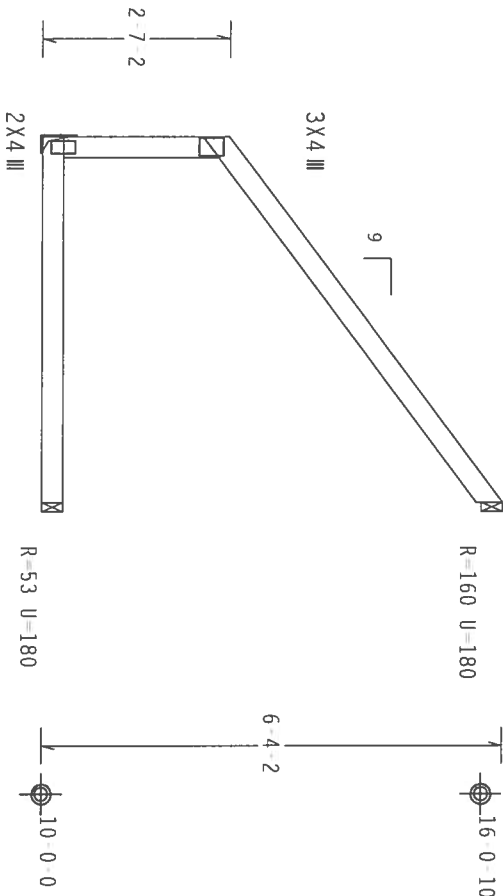
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

Calculated horizontal deflection is 0.36" due to live load and 0.23" due to dead load.

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



≤5'-0-0 Over 3 Supports ⇒  
R-213 U=180

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

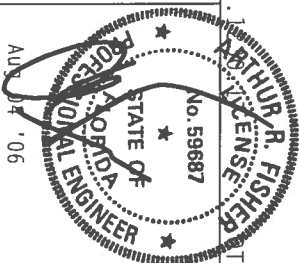
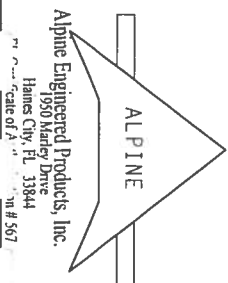
FL/-4/-/-R/-

Scale = .375"/Ft.

**\*\*WARNING\*\*** BRUSSES ROUTING EXISTING CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RETAINING WALLS AND OTHER STRUCTURES SHALL BE PROTECTED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNN RD., SUITE 100, HARTFORD, CT 06105) 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 MD5 (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 67679
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216003
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 120544
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZHAR7 201

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #2 Dense :W2 2x4 SP #3:

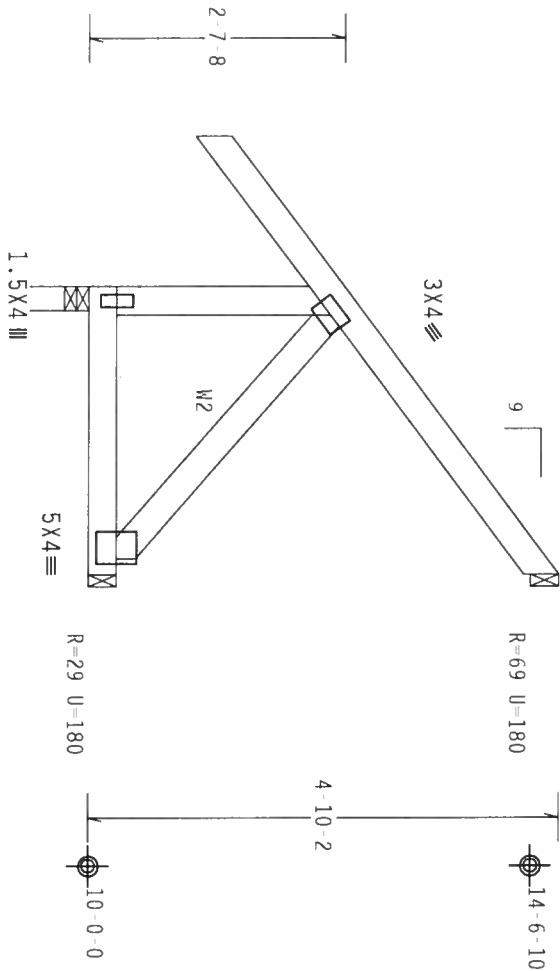
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

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

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

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



1'-6-8" →  
2'-11-8" over 3 Supports  
R=262 U=180 W=3"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10.0)

7.24

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

Scale = .5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BESET TO BUILDING CONSTRUCTION SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 FIREBRIDGE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PROCEEDING 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.

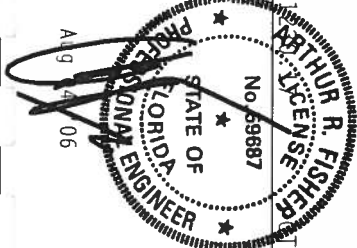
CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE TRUSSES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWING 1604.2.

CLUSTERS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWING 1604.2. DRAWING INDICATES ACCEPTANCE OF THIS DESIGN FOR THE BUILDING DESIGNER AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

1990 Marley Drive  
Haines City, FL 33844

Phone #567



TC LL	20.0 PSF	REF R487 - 67680
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216068
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 120533
DUR.FAC.	1.25	
SPACING	24.0"	DRFF- 1SZH487 201



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

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

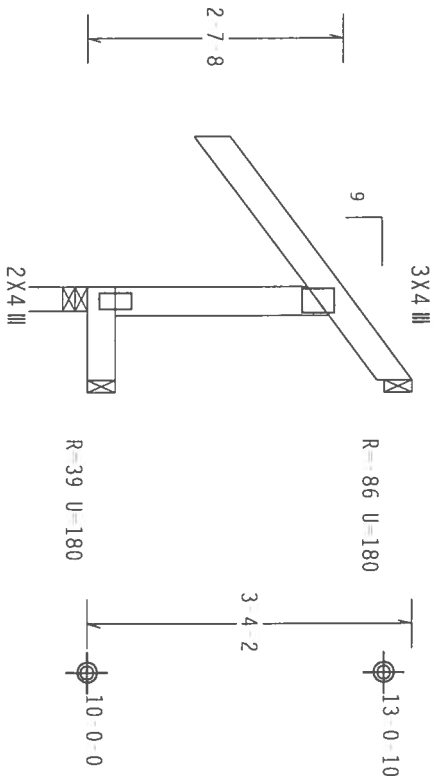
In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.

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

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

Calculated horizontal deflection is 0.32" due to live load and 0.11"  
due to dead load.

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



1'-6-8" Over 3 Supports  
0'-11-8" Over 3 Supports  
R=235 U=180 W=3"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR GART IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND UNLOADING.  
BETTER TO BESE 1 ON BUILDING COMPONENT SAFETY INFORMATION, FURNISHED BY TPI TRUSS PLATE INSTITUTE, 563  
DUNFORD DR., SUITE 200, MADISON, WI 53719 AND WEA 4800 TRUSS CONNECT OF AMERICA, 6300 ENTERPRISE LN,  
MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

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

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) 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 T00A-2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE FOR THE TRUSS COMPONENT  
INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEAL FOR THIS TRUSS COMPONENT  
INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEAL FOR THIS TRUSS COMPONENT  
INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEAL FOR THIS TRUSS COMPONENT

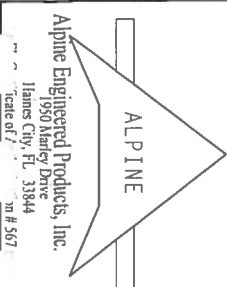
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



QTY: 2 FL/-/4/-/R/-

Scale = .5"/ft.

TC LL	20.0 PSF	REF R487 - - 67681
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216069
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 120536
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SZH487 Z01



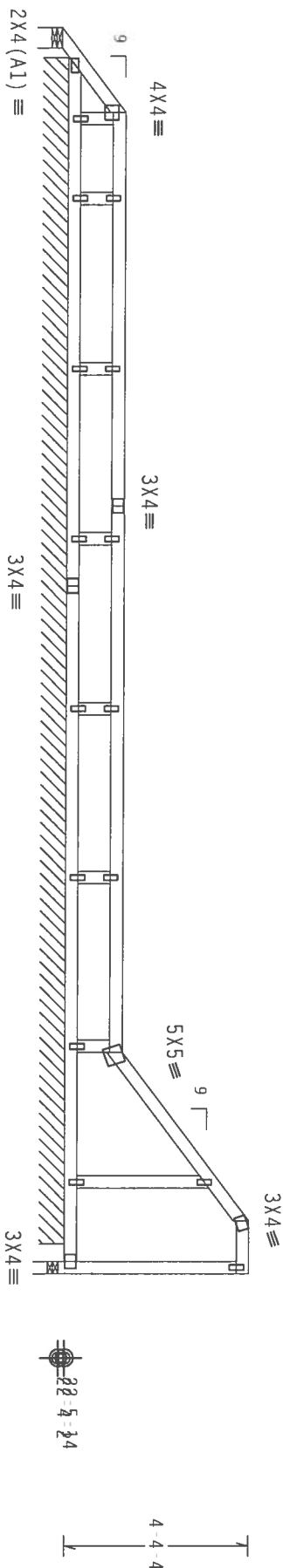
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 24.59 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=1.2 psf

Right end vertical not exposed to wind pressure.

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



R=13 U=180 W=5.833"  
R=69 PLF U=32 PLF W=28-0-0

 $R=55 \quad U=180 \quad W=3.5''$ 

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

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

7.24.12

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

Scale = .25"/Ft.

\* \* \*WARNING\* \* \* PROSPECTS OF INJURY EXIST FROM CABLE FABRICATION, HANDLING, SHIPPING, INSTALLING, AND REPAIRING. REFER TO ACES 1 TO 4 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE THIBODUX PAPER INSTITUTE, 5800 O'DONNELL DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD INDUSTRIES COUNCIL OF AMERICA, 6300 ENTERPRISE DRIVE, MADISON, WI 53719) FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TIE-DOWN CEILING.

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

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

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

CONNECTOR PLATES ARE MADE OF 20/18/16GA (H, H/S/K) ASTM A653 GRADE 40/60 (H, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF BRUS AND WELDS OTHERWISE LOCATED ON THIS DESIGN POSITION WITH BRASS/ALUMINUM SCREWS

PLATES TO EACH PCL. OF TROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2  
ANY INSPECTION OF PLATE'S FOLLOWED BY (1) SHALL BE PERFORMED AS OF 1911-2002 SEC 2 A SEAL ON THE

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS AND INSPECTION OF PLATES FOLLOWED BY (1) SHALL, BE PER ANNEX A3 OF IP-11 2002 SEC.3. A SEAL ON THIS

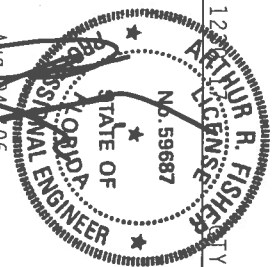
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT IS THE RESPONSIBILITY OF THE INDIVIDUAL ACCEPTANCE OF PROFESSIONAL ENGINEERING SOCIETY FOR THE CROSS COMPONENT.

DESIGNER: THE ARCHITECT AND ONE OF THE CONTRACTORS FOR THE BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

Haines City, FL 33844

scale of / in # 567

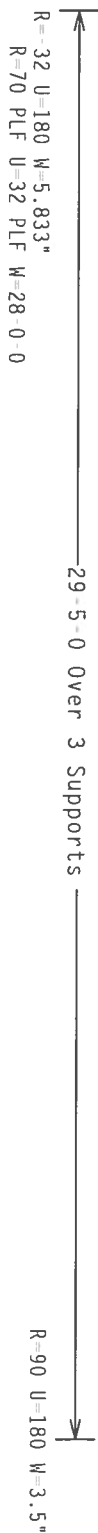


FL/-4/-/-/R/-	Scale = .25"/Ft.
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	2.0 PSF
BC LL	0.0 PSF
TOT.LD.	32.0 PSF
DUR.FAC.	1.25
SPACING	24.0"
REF	R487 - 67682
DATE	08/04/06
DRW	HCUSR487 06216070
HC-ENG	TCE/AF
SEON-	121109
JRFF -	1SZH487 Z01

110 mph wind, 24.61 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

Deflection meets  $L/360$  live and  $L/240$  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

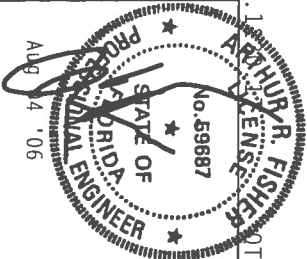
FL/4/-/R/

Scale = .25"/Ft.

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

Alpine Engineered Products, Inc.

1930 Marley Drive  
Haines City, FL 33844  
- "cate of A" in # 567

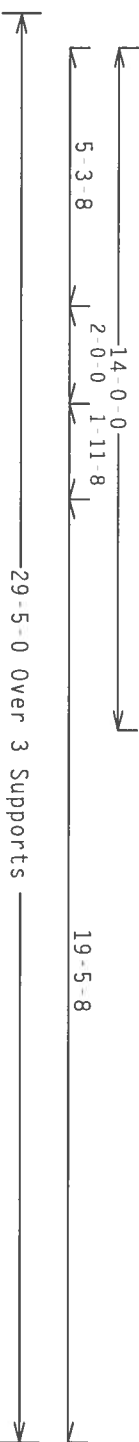


TC LL	20.0 PSF	REF	R487 - 67683
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCSR487 06216071
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEON-	121240
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 Z01

110 mph wind, 24.59 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP 8, wind TC DL=5.0 psf, wind BC DL=1.2 psf

Right end vertical not exposed to wind pressure.

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



R=83 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

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

PROPERTY: 1

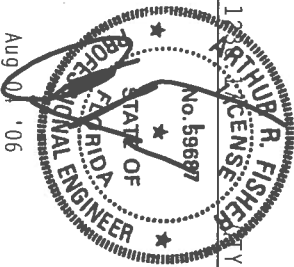
FL/14/1/R/

Scale = .25"/Ft.

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

Alpine Engineered Products, Inc.

1950 Markey Drive  
Haines City, FL 33844  
Date of / / on #567



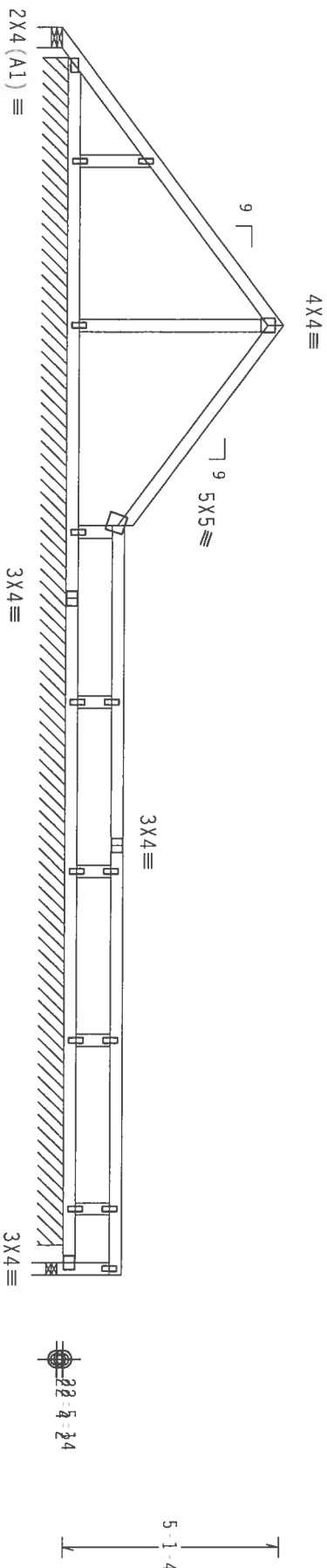
TC LL	20.0 PSF	REF	R487 - -	67684
TC DL	10.0 PSF	DATE	08/04/06	
BC DL	2.0 PSF	DRW	HCUSR487	06216072
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	32.0 PSF	SEQN-	121247	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1SZH487	Z01

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.

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

110 mph wind, 24.97 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/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=15 U=180 W=5.833"  
R=68 PLF U=30 PLF W=28-0-0

R=11 U=180 W=3.5"

Note: All Plates Are 1.5X4 Except As Shown.

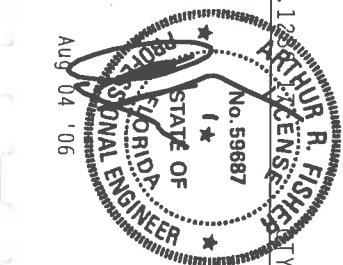
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.12

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PRIOR TO BEING USED, THE TRUSS MUST BE INSPECTED BY A QUALIFIED ENGINEER. THE TRUSS MUST BE USED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS AND THE TRUSS MUST BE USED IN ACCORDANCE WITH THE TRUSS MFG. INSTRUCTIONS. THE TRUSS MUST BE USED IN ACCORDANCE WITH THE TRUSS MFG. INSTRUCTIONS. THE TRUSS MUST BE USED IN ACCORDANCE WITH THE TRUSS MFG. INSTRUCTIONS.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN.



ALPINE Engineered Products, Inc.  
1950 Mary Drive  
Haines City, FL 33844  
Tel: 888-567-5677

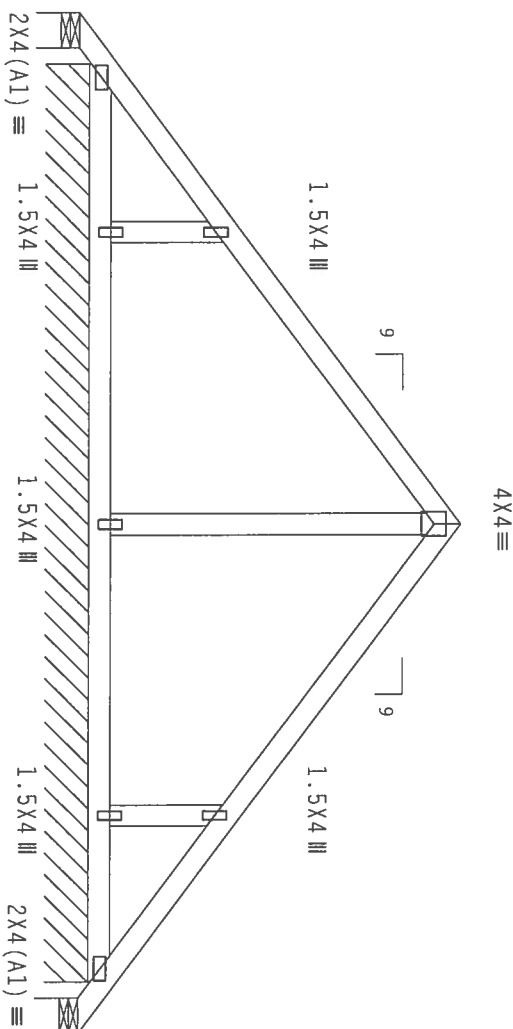


TC LL	20.0 PSF	REF R487-67685
TC DL	10.0 PSF	DATE 08/04/06
BC DL	2.0 PSF	DRW HCUR487 06216073
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	32.0 PSF	SEON-121254
DUR.FAC.	1.25	
SPACING	24.0"	JRFF-1SZH487 201

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

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

110 mph wind, 24.97 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 CB DL=1.2 psf.



5-1-4

$R=24$   $U=180$   $W=5.833^a$   $14-0-0$  Over 3 Supports  $R=24$   $U=180$   $W=5.834$   
 $R=70$  PLF  $U=27$  PLF  $W=12.7-0$

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

QTY:17 FL/-/4/-/-/R/-

Scale = .375"/Ft.

**WARNING:** THESE FIBERS REQUIRE SPECIAL CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SECTION 1.03 (BUILDING COMPONENTS SAFETY INFORMATION), FURNISHED BY THE FIBERS MARKETING INSTITUTE, 583 D'ORVILLE DR., SUITE 100, MADISON, WI 53719, AND THE AMCA (GOOD FIBERS COUNCIL) OF AMERICA, 6500 ENTERPRISE IN MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

TC LL	20.0 PSF	REF R487 - 67686
TC DL	10.0 PSF	DATE 08/04/06
BC DL	2.0 PSF	DRW HCURS487 0621607

DATE 08/04/06

BC DL 2.0 PSF | DRW HCUSR487 06216074


BC LL	0.0 PSF	HC-ENG TCE/AF
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
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9	9	9
10	10	10
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100	100	100

TOT ID	320	PSE	SEON	121257
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25	6
7	1
5	1
1	1
0	1
0	1

CZ.T .WY:VOD

SPAL, ING 74.0 JKFF 152H48/ 201



**ALPINE**  
**Engineered Products, Inc.**  
 1950 Menden Drive  
 Haines City, FL 33844  
 Telex 017-  
 In # 567

[illegible]

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 59687, Exp. 06.

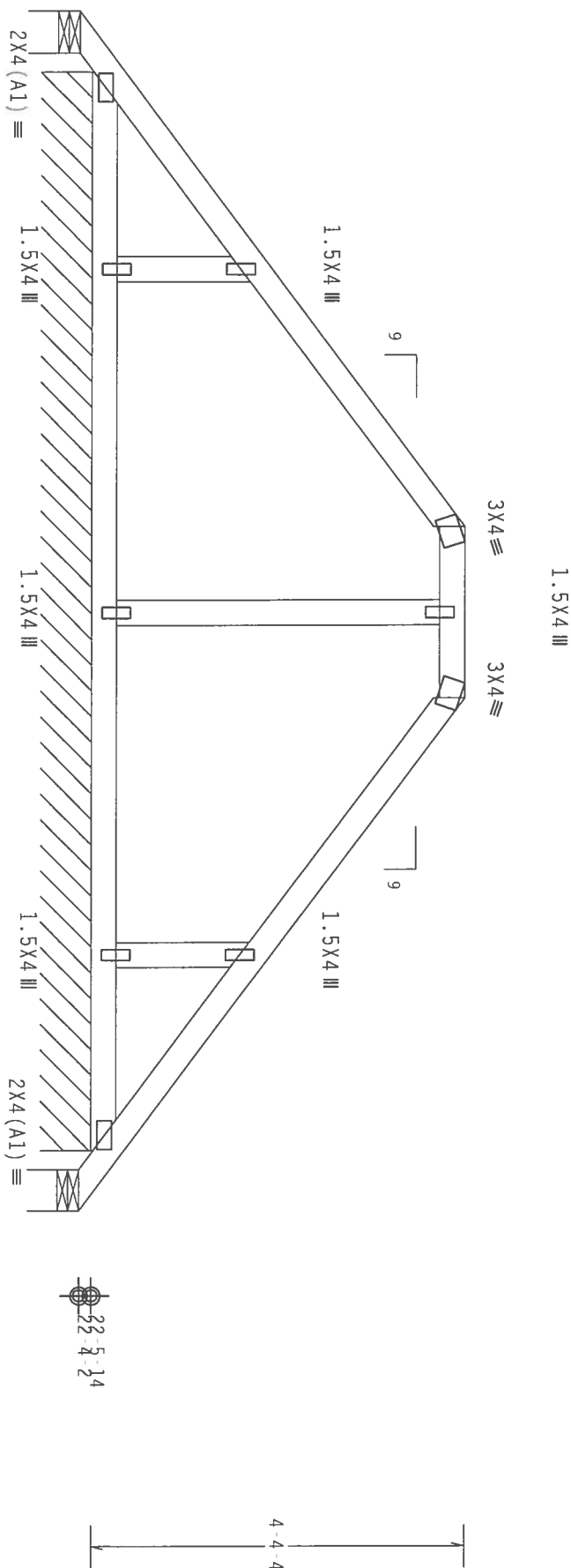
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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

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

110 mph wind, 24.59 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/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=26 U=180 W=5.833"  
R=70 PLF U=28 PLF W=12-7-0  
14-0-0 Over 3 Supports  
R=26 U=180 W=5.833"

PLT TYP. Wave

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

7.24.1

ARTHUR R. FISHER

REGISTERED PROFESSIONAL ENGINEER

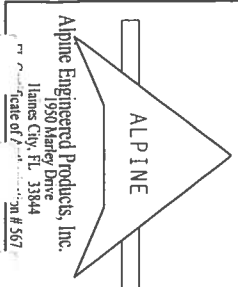
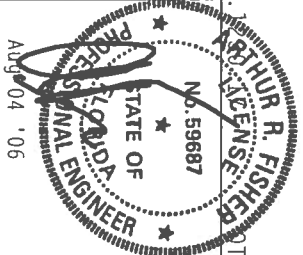
QTY:1

FL/-/4/-/R/-

Scale = .5"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 3810 DOWDRIE DR., SUITE 200, MADISON, WI 53719) AND WITH A GOOD TRUSS COUNCIL OF AMERICA, 6300 FAIRFACET LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* \*TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE PLATES EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. ADD 2.0 PSF PER TRUSS. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



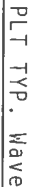
Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone #567

TC LL	20.0 PSF	REF	R487-67687
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCUSR487 06216075
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEON	118346
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	1SZH487 201

110 mph wind, 23.84 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TD DL=5.0 psf, wind BC DL=1.2 psf

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

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



7.24.1

FL/14/1/R/

Scale = .5" / Ft.

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

CONDUCTOR PLATES TO EACH FACE OF IRONSS AND INSPECTION OF PLATES FOLLOWED BY DRAWING INDICATES ACCEPTANCE OF PROVISIONAL ENGINEERING RESPONSIBILITY FOR THE THIRDS COMMENT

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

TC LL	20.0 PSF	REF	R487 - 67688
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCUSR487 06216076
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN -	118344
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 Z01



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

110 mph wind, 23.09 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.

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



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

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

7.24.1

OT

Y:1 · FL/-/4/-/-/R/-/

Scale = .5" / Ft.

\*\*\*WARNING\*\*\* FRAMES REQUIRE EXTENSIVE CARE IN HANDLING, SHIPPING, INSTALLING AND DRACING. REFER TO GC51-1 FOR BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLANET INSTITUTE, 5815 O'CONNOR DR., SUITE 200, HADLEY, MA 02148) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE, HADLEY, MA 02148). THESE PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. THESE OTHERWISE INDICATED. TPI CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TACID SEALING.

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

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

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

CONNECTOR PLATE IS MADE OF 20/18/16GA (H. H/5/K) A5TH A653 GRADE 40/60 (H. K/H.S) GALV. STEEL. APPLY

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

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 AND USER.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

[illegible]

Aug 04 '06

TC LL	20.0 PSF	REF	R487 - 67689
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCUSR487 06216077
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN-	118342
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 Z01

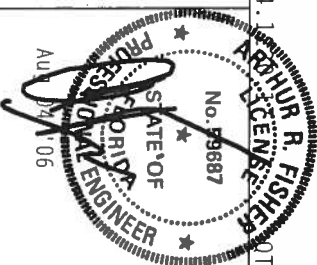
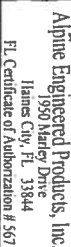
Right end vertical not exposed to wind pressure.



Scale = .5"/Ft.

R=33 U=180 W=5.833"  
R=79 PLF U=44 PLF W=6-6-8

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



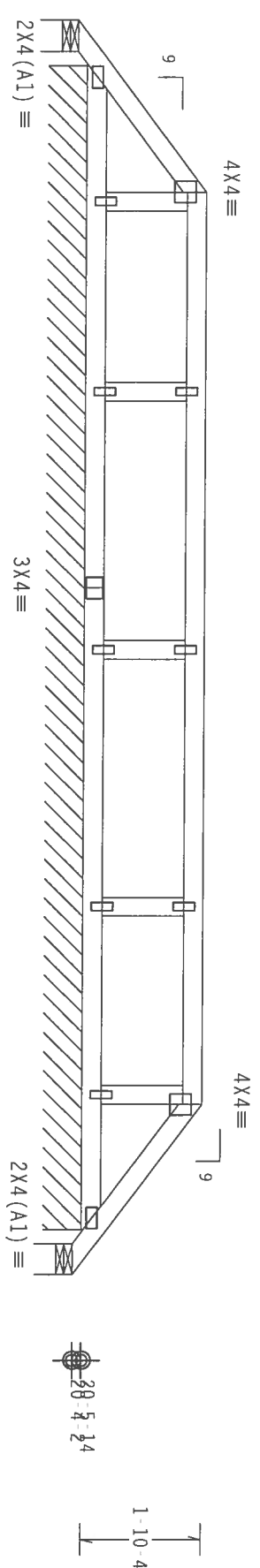
TC LL	20.0 PSF	REF	R487 - 67690
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCUSR487 06216078
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN-	118398
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 Z01

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.

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

110 mph wind, 21.34 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/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

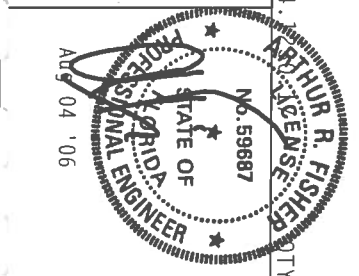
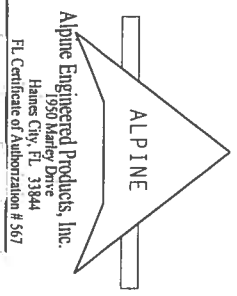


R=9 U=180 W=5.833"  
R=72 PLF U=25 PLF W=18-1-0  
1-11-8  
9-0-8  
14-2-0  
1-11-8  
19-6-0 Over 3 Supports  
R=9 U=180 W=5.834"

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

\*\*\*WARNING\*\*\* TRUSSES ARE NOT TO BE USED IN CONNECTION WITH ANY OTHER BUILDING COMPONENTS. TRUSSES ARE TO BE USED IN CONFORMANCE WITH THE DESIGN CRITERIA AND SPECIFICATIONS OF THE MANUFACTURER. TRUSSES ARE TO BE USED IN CONFORMANCE WITH THE DESIGN CRITERIA AND SPECIFICATIONS OF THE MANUFACTURER. TRUSSES ARE TO BE USED IN CONFORMANCE WITH THE DESIGN CRITERIA AND SPECIFICATIONS OF THE MANUFACTURER.



TC LL	20.0 PSF	REF	R487-67691
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCUSR487 06216079
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	32.0 PSF	SEON	121262
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1SZH487 201

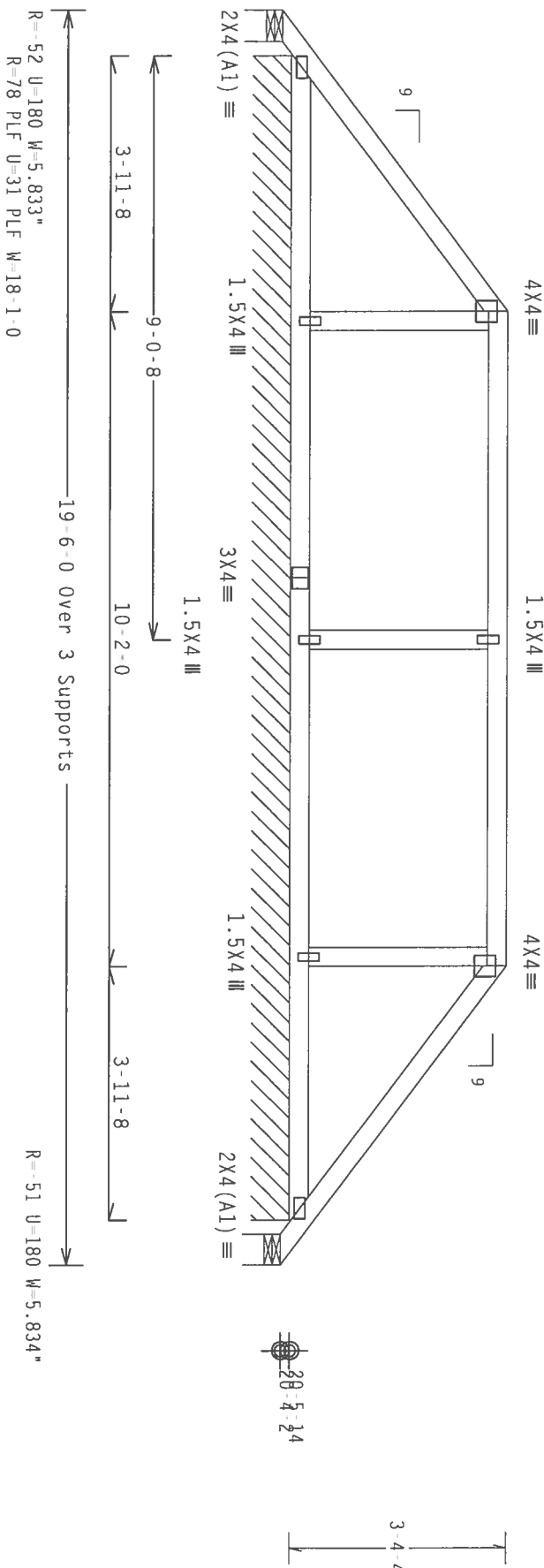
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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

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

110 mph wind, 22.09 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/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.



PLT TYP. Wave

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

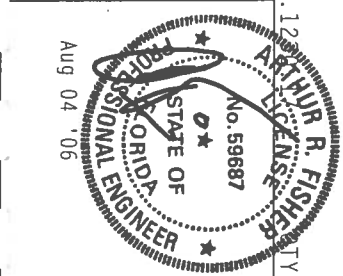
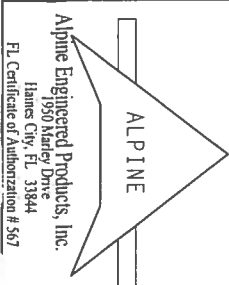
FL/-/4/-/R/-

Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO RES 1.01 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503  
D-0000 RD., SUITE 200, MADISON, WI 53719), AND MECA (GOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN,  
MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE  
CORPORATION PLATES ARE MADE OF 20/19/16GA (W/15/15) ASPM A553 GRADE 40/60 (W/ 8/11.5) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z,  
AND INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE THE OWNER'S AND (2) TPI-2002 SEC. 3. A SEAL ON THIS  
DESIGN SHALL BE OBTAINED BY PROVISIONAL ENGINEERING RESPONSIBILITY. SIGNED FOR THE TRUSS COMPONENT  
DESIGNER AND THE TRUSS DESIGNER. 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--	67692
TC DL	10.0 PSF	DATE	08/04/06	
BC DL	2.0 PSF	DRW	HCUSR487	06216080
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT.LD.	32.0 PSF	SEON-	121265	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SZH487	Z01

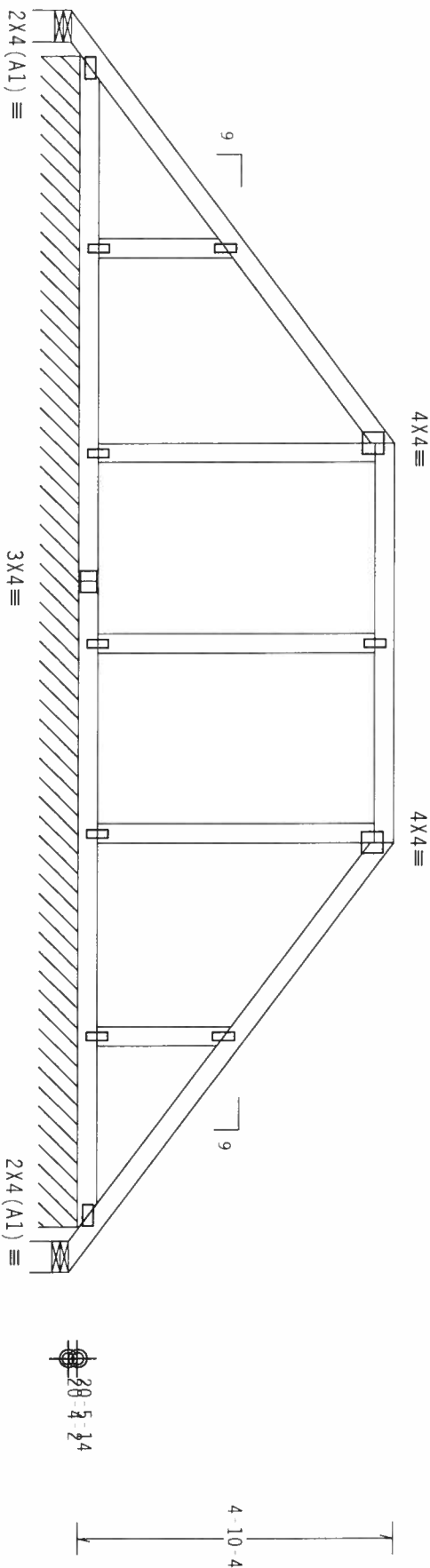
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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

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

110 mph wind, 22.84 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/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=9 U=180 W=5.833"  
R=74 PLF U=27 PLF W=18-1 0  
19-6-0 Over 3 Supports  
R=9 U=180 W=5.834"

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.24.1

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

Scale = .375"/ft.

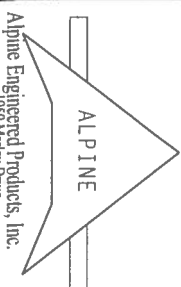
\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DETAIL 103 (INCLUDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 600 OGDON DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6200 CHESTER DR., 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 CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. APPLY

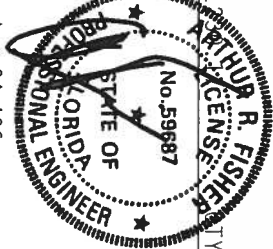
CONNECTION PLATES ARE MADE OF 20/18/16GA (U-H/S) ASTM A653 GRADE 40/50 (U, K/H/S) GALV STEEL. APPLY

APPLY TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING TAD 2. ALL TRUSSES SHALL BE PROTECTED AGAINST FIRE BY THE APPLICATION OF A SEAL OR THIS DRAWING INDICATES THE ACCEPTANCE OF PROTECTION. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - - 67693
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCSR487 06216081
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN-	121268
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 201

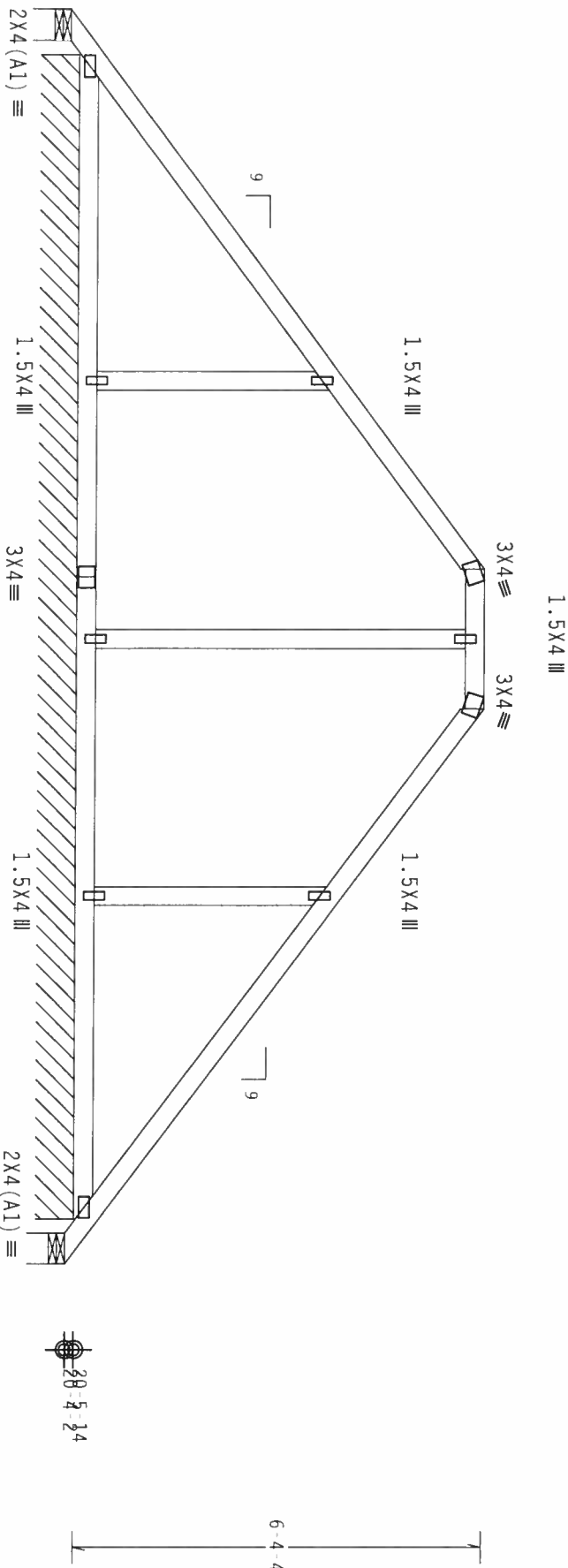
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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

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

110 mph wind, 23.59 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/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.



R=118 U=180 W=5.833"  
R=86 PLF U=39 PLF W=18-1-0

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

FL/-/4/-/R/-

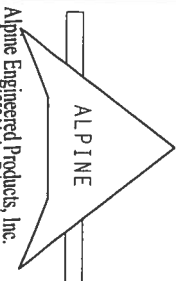
Scale = .375"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, WELDING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIG. 103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100 N. MICHIGAN, SUITE 200, CHICAGO, IL 60611, AND AISC 308 (STEEL ERECTORS' GUIDE TO SAFE PRACTICES), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100 N. MICHIGAN, SUITE 200, CHICAGO, IL 60611, 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.

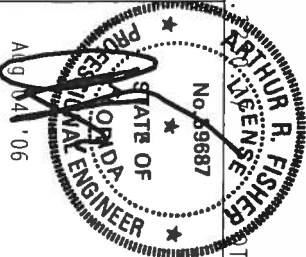
\*\*IMPORTANT\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

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

CONNECTIONS ARE TO BE MADE TO 2002 (NATIONAL DESIGN SPEC., BY AISC) AND TPI-2002 (STD). APPLY ANY INSPECTION OF ACCEPTANCE, BUT (1) SHALL BE PERFORMED AS OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES THE SUFFICIENCY 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  
a # 367

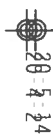


TC LL	20.0 PSF	REF R487 - 6/694
TC DL	10.0 PSF	DATE 08/04/06
BC DL	2.0 PSF	DRW HCUSR487 06216082
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	32.0 PSF	SEON- 121271
DUR. FAC.	1.25	
SPACING	24.0"	JRFF- 1SZH487 201

110 mph wind, 24.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D=5.0 psf, wind BC DL=1.2 psf

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

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



7-2-0

Scale = .3125" / Ft.

ARTHUR R. FISHER  
LICENSE  
No. 59687  
STATE OF

ALPINE ENGINEERED

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
Estate of A. J. in #567

TC LL	20.0 PSF	REF	R487 - 67695
TC DL	10.0 PSF	DATE	08/04/06
BC DL	2.0 PSF	DRW	HCSR487 06216083
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEQN-	121274
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SZH487 Z01

JRFF- 1SZH487 Z01

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

(B) 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.

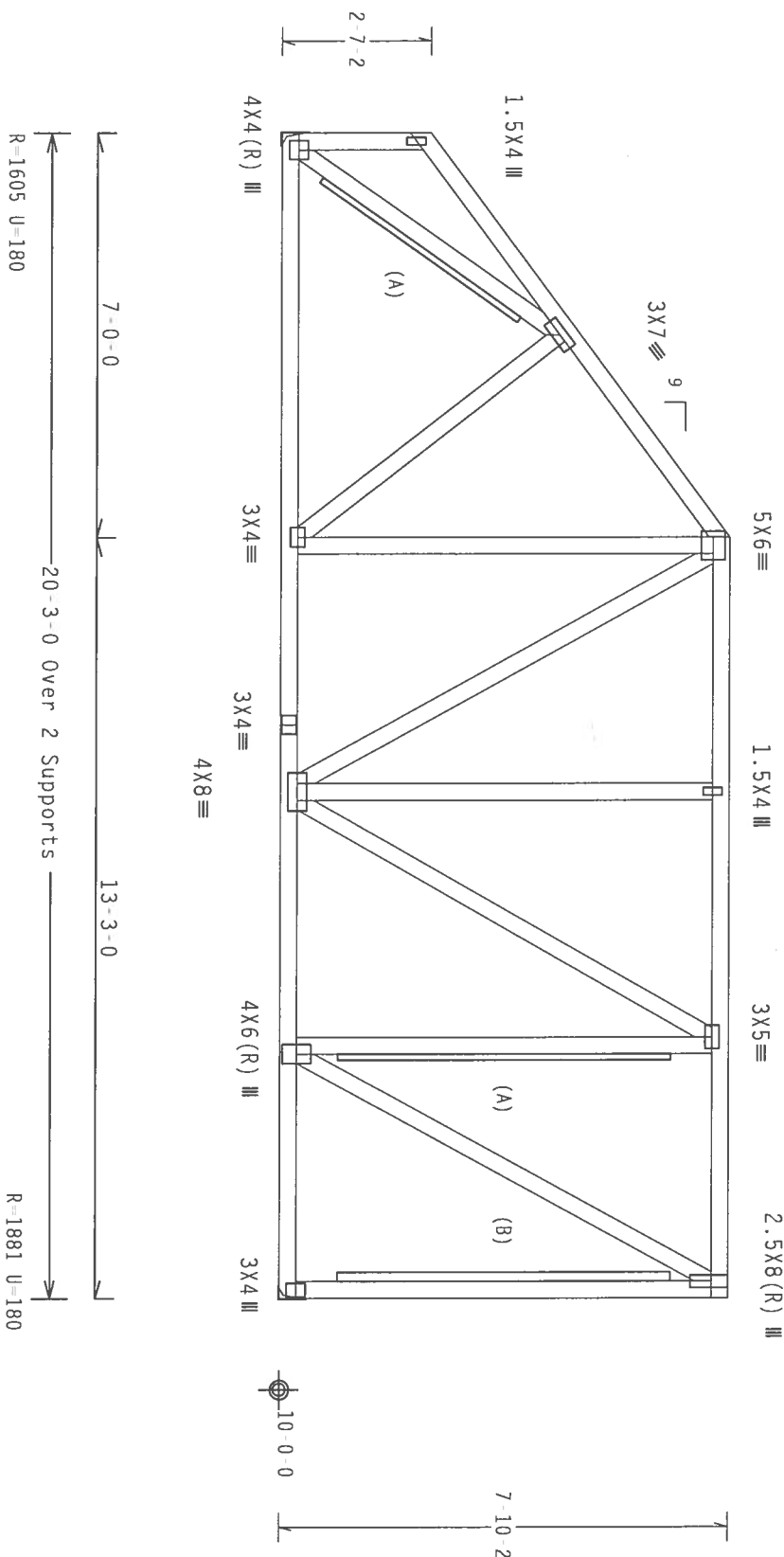
#1 hip supports 7-0-0 jacks with no webs.

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

110 mph wind, 15.22 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) 1x4 SP#3 or better 1" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC. In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

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

Scale = .3125"/Ft.

**WARNING:** TRISSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING AND INSTALLATION. INSTRUCTIONS REFER TO DESIGNS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TROSSER PLATE INSTITUTE, 590 O'CONNOR BL., SUITE 200, MADISON, WI 53719, AND THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) OF AMERICA, 6500 ENTERPRISE, IN MADISON, WI 53719, FOR SAFETY PRACTICES RELATIVE TO VERTICAL TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED LIFTING POINT.

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


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

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

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

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

BUILDING DESIGNER PER ANSI/API 1 SEC. 2.



**ALPINE**

**Alpine Engineered Products, Inc.**  
 1950 Marley Drive  
 Itasca City, FL 33844  
 State of FL  
 in # 567

Professional Engineer Seal for Arthur A. Fisher, State of Florida, No. 55687, dated August 4, 2006.

TC LL	20.0 PSF	REF	R487 - 67696
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216001
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN -	120555
DUR.FAC.	1.25		
SPACING	SFF ABOVE	JRFF -	1SZH487 Z01



THIS WORK PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY KUSS MRK.

110 mph wind, 15.97 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) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

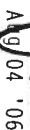

$$\frac{Cq}{RT} = 1.00(1.25)/10(0) \quad 7.24$$

Scale = .25" / Ft.

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

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
n #567



FL/-4/-/-R/-		Scale = .25"/Ft.	
TC LL	20.0 PSF	REF	R487 - 67697
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUR487 06216002
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	120560
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 Z01

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

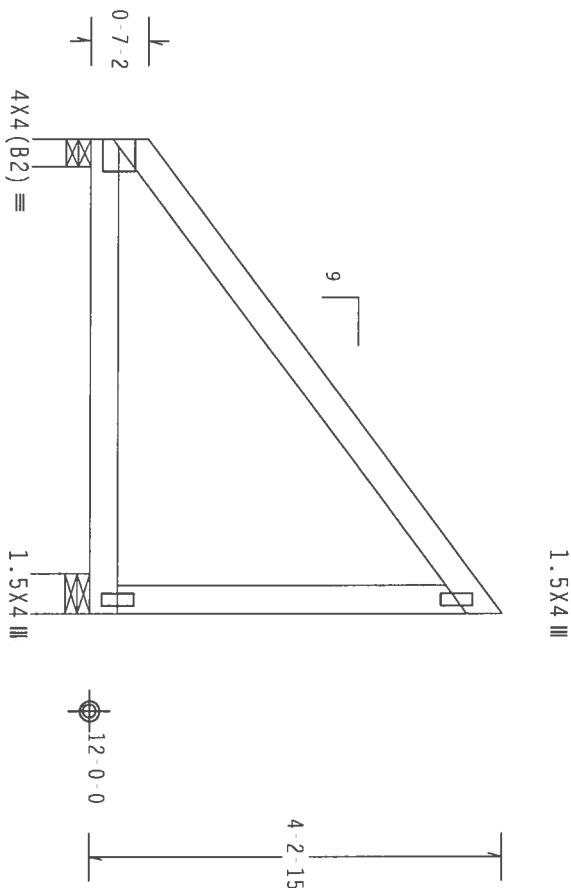
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

Right end vertical not exposed to wind pressure.

Hipjack supports 3-5-5 setback jacks with no webs.



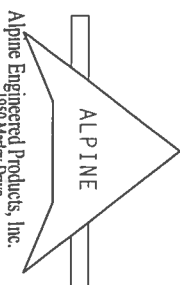
4-10-7 Over 2 Supports  
R=81 U=180 W=3.5"  
R=160 U=180 W=4.95"

PLT TYP. Wave

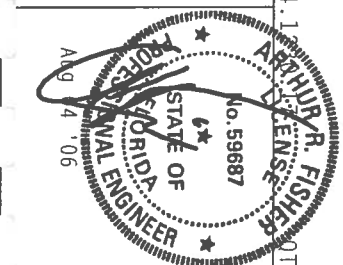
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 DORRIS DR., SUITE 200, MADISON, WI 53719, AND WICK CHORD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BL, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED 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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2010/1604 (40/50/50) ASH 6060 GRADE 40/60 (40/50) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ALL TRUSSES SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, 2005. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE DESIGN. THE DESIGNER'S RESPONSIBILITY IS TO THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
Phone: 888-567-5671



TC LL	20.0 PSF	REF R487-67698
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUR487 06216084
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEQN-121371
DUR. FAC.	1.25	
SPACING	SFF ABOVE	
JRFF	1SZH487	Z01

Scale = .5"/ft.

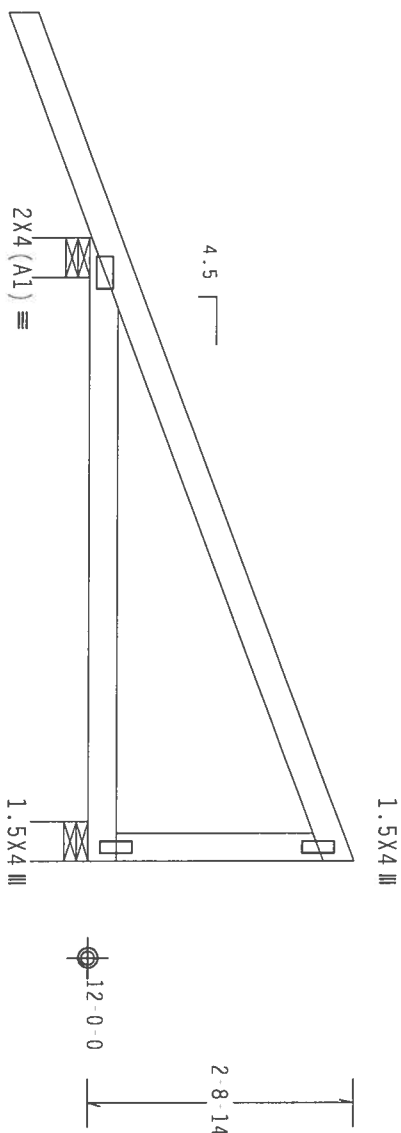
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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

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

Right end vertical not exposed to wind pressure.

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



2-3-10

6-5-1 Over 2 Supports  
R=450 U=180 W=4.923"  
R=224 U=180 W=4.95"

PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC

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

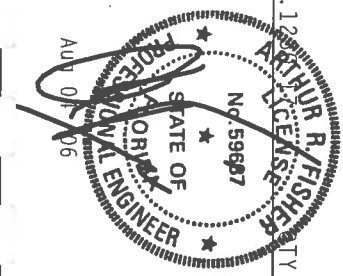
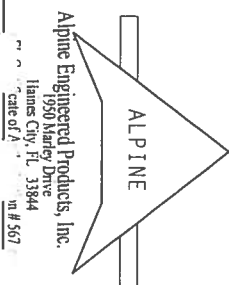
7.24.12

FL/-4/-/-R/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 TRUSSES PLATE INSTITUTE, 583 D-ORRARIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

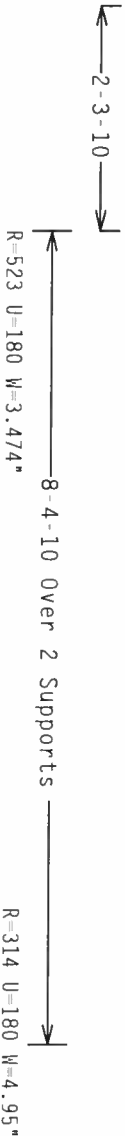
**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TP1. ALPINE TRUSSES SHALL BE MADE OF 2018/16GA (W. 48/57) ASH 6053 GRADE 40/60 (W. 47/4.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS TEMA 7. UNLESS OTHERWISE SPECIFIED, ALL TRUSSES SHALL BE PER ANHX 2.2 OF TP11-2002, SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE BY THE PROFESSIONAL ENGINEER. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TP11 SEC. 2.



TC LL	20.0 PSF	REF	R487--	67699
TC DL	10.0 PSF	DATE	08/04/06	
BC DL	10.0 PSF	DRW	HCUSR487	06216085
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT. LD.	40.0 PSF	SEQN-	118560	
DUR. FAC.	1.25			
SPACING	24.0"	JRFF-	1SZH487	Z01


110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf.

Right end vertical not exposed to wind pressure.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Scale = .5"/Ft.

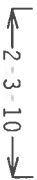
calc of A in # 567

A circular professional engineer seal for Arthur R. Fishen, State of Florida. The seal contains the text "ARTHUR R. FISHEN", "LICENSE", "No. 55687", "STATE OF FLORIDA", and "PROFESSIONAL ENGINEER". There are two stars on the seal. A handwritten signature is written across the seal. To the left of the seal, the date "Aug 04 '06" is stamped vertically.

TC LL	20.0 PSF	REF	R487 - - 67700
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216086
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121377
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZH487 Z01

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

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



PLT TYP. Wave

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

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

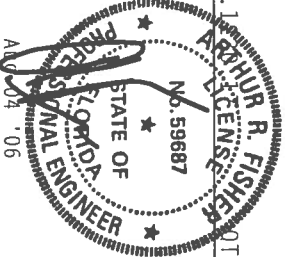
Scale = .375"/Ft.

ALPINE

Alpine Engineered Products, Inc.

1950 Marney Drive  
Haines City, FL 33844

Calc of A in # 567



FL/-4/-/R/-		Scale=.375"/ft.
TC LL	20.0 PSF	REF R487 67701
TC DL	10.0 PSF	DATE 08/04/06
BC DL	10.0 PSF	DRW HCUSR487 06216087
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 121382
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZH487_Z01

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

Right end vertical not exposed to wind pressure.  
Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.


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

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

Scale = .375"/Ft.

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

TRUSS IN CONFORMANCE WITH IPI:

OR FABRICATING, HANDLING, SHIPPING, INSTALLING &amp; BRACING

### ING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE

THE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIAA) AND TPI

ALPINE

CONNECTOR PLATES ARE MADE OF 2 PLATES TO EACH FACE OF TRUSS

20/18/16GA (W, M/S/K) ASTM A653 GRADE: 40/60 (W, K/H, S) GALV S

## SELL, APPLY

PLATE TO EACH FACE OF TRUSS  
ANY INSPECTION OF PLATE FOLD

UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING BY (1) SHALL BE PER ANNEX A OF IPII 2002 SEC 3

DRAWINGS 160A-Z

DRAWING INDICATES ACCEPTANCE

OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLICIT FOR THE HONOR OF (1) SHALL BE PERMITTED AS OF 1/1/2002 SEC.3.

A SEAL ON THIS  
RUSS COMPONENT

DESIGN SHOWN THE SUITABILITY

ITY AND USE OF THIS COMPONENT IS THE RESPONSIBILITY OF THE USER. THE USER ASSUMES ALL LIABILITY FOR THE PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE

### RUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI

AND USE OF THIS CONSTRUCTION FOR THE BUILDING IS THE RESPONSIBILITY OF THE USER.

### Stability of the

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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Aug 04 '06

TC LL	20.0 PSF	REF	R487 - 67702
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	H05R487 06216088
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	118564
DUR.FAC.	1.25		
SPACING	24.0"	JRF-F - 1SZH487	Z01

JRFF- 1SZHA87 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  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.



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

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

2006-11-17  
BENS  
CH

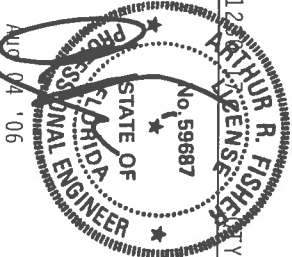
FL/-/4/-/-/R/-

Scale = .5"/Ft.

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

Alpine Engineered Products, Inc.

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



FL / - / 4 / - / - / R / -		Scale = .5" / Ft.	
TC LL	20.0 PSF	REF	R487 - 67703
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCU8R487 06216089
BC LL	0.0 PSF	HC ENG	TCE / AF
TOT. LD.	40.0 PSF	SEON	118552
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1SZH487 701

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

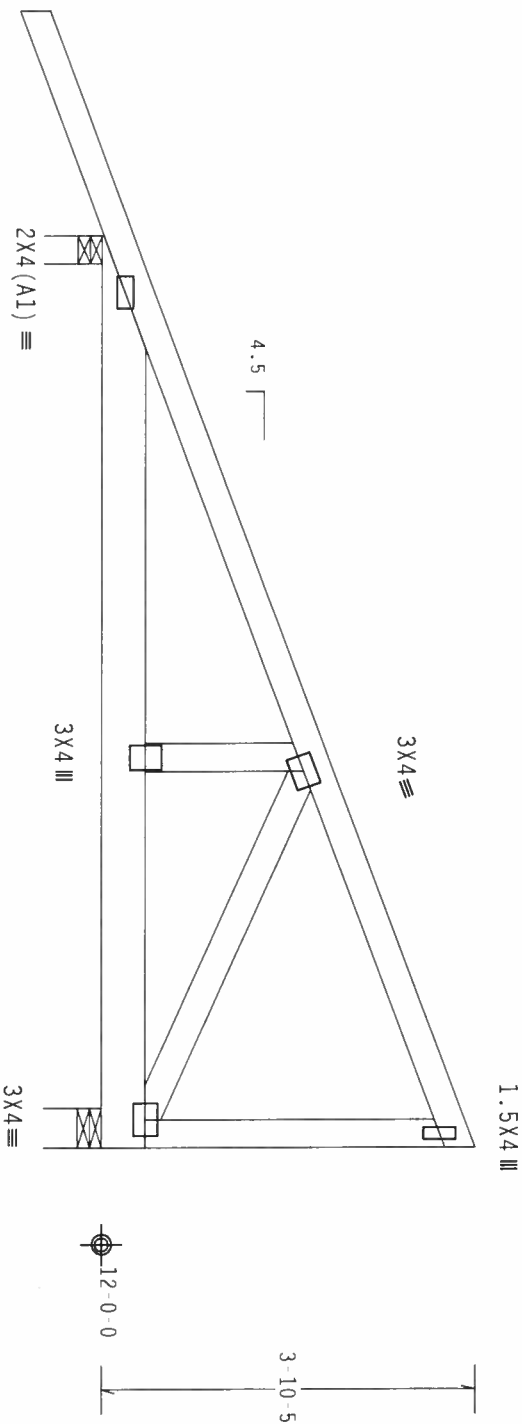
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

SPECIAL 00AD5		(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC - From	61 PLF at -2.30 to	61 PLF at 9.41	
BC - From	4 PLF at -2.30 to	4 PLF at 0.00	
BC - From	20 PLF at 0.00 to	20 PLF at 9.41	
BC - 379 LB Conc.	Load at 1.72		
BC - 297 LB Conc.	Load at 4.55		
BC - 215 LB Conc.	Load at 7.38		

Right end vertical not exposed to wind pressure.

Provide connection for concentrated load(s) shown.



2-3-10

R=1078 U=180 W=3.474"

R=730 U=180 W=4.95 m

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.

**"MARINER"** HORSES (BLOODING, EXPERT, CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING) REFER TO BEST 103 (BUILDING COMPLEX, CARE IN FABRICATION), HANDLING, SHIPPING, INSTALLING AND BRACING, 503 D-000010-BE, SUITE 200, MOJAVE, IN 53119) AND A7ICA (GOOD PRESS CONSULT, OF A7ICA, 6300 CHIEFSEAL IN 53119) FOR SAFETY PRACTICES PRIOR TO WORKING THESE FUNCTIONS. THESE GUIDANCE INDICATED TO TOP CORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTLES AND BOTTOM CORDS SHALL HAVE A PROPERLY ATTACHED LIGID CLOSING.

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


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

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

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

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

100



**Alpine Engineered Products, Inc.**  
 1950 Meyer Drive  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 567

Professional Engineer Seal for Arthur R. Fisher, State of Florida, License No. 59687, dated August 6, 2006.

TC LL	20.0 PSF	REF	R487 - 67704
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216090
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	118598
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 201



Deflection meets  $L/360$  live and  $L/240$  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



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 = .375"/Ft.

**WARNING:** THESE TRUCKS REQUIRE EXPERT CARE IN FABRICATING, INSTALLING, SHIPPING, UNLOADING, AND BRACING. REFER TO BCSI 1-800-BUILDING-COMPONENT-SYSTEMS INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 560 D'ORNBROOK DR., SUITE 200, MADISON, WI 53719, AND APCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 CHIFFENEAU RD., MADISON, WI 53719, FOR SAFETY PRACTICES PERTAIN TO RETROFITTING TRUSS FUNCTIONS. THESE OTHERWISE UNCOATED TRUSS CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CEILING.

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

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

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2007 SEC.3. A SEAL ON THIS

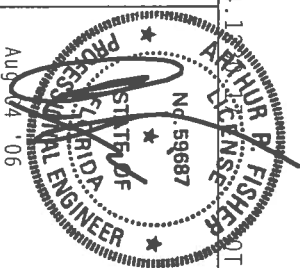
DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT IS THE RESPONSIBILITY OF THE INDIVIDUALS ACCEPTING PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE CROSS COMPONENT DESIGN SHOWN.

BUILDING DESIGNER PER ANSI/API 1 SEC. 2

Alpine Engineered Products, Inc.

Manassas City, FL 33844

FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - - 67705
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216091
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	118591
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH487 201





110 mph wind, 15.42 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TD DL=5.0 psf, wind BC DL=5.0 psf

Right end vertical not exposed to wind pressure.

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

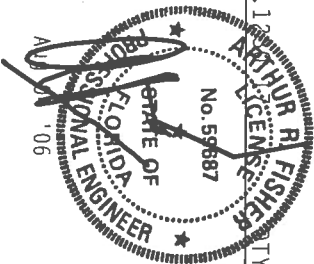

$$Cq/RT=1.00(1.25)/10(0)$$

Scale = .375"/Ft.

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

Alpine Engineered Products, Inc.

Haines City, FL 33844  
FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487 - 67708
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCU8R487 06216094
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	121392
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SZH4R7 201

110 mph wind, 18.22 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.

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

Truss spaced at 24.0" OC designed to support 1-6-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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.



Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .1875"/Ft.

\*WARNING: ALL PARTS REQUIRE EXTENSIVE HAND FABRICATION, INCLUDING SHIPING, TRAILING AND DRAGGING. REFER TO SECT 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSS PLATE INSTITUTE), 303 D'ORNO RD. • SUITE 200, MADISON, WI 53715, AND VICA (WOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE BLVD, MADISON, WI 53717, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

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

TRUSS IN CONFORMANCE WITH IP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF HDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (H-H/S/K) 45TH A653 GRADE 40/60 (M-K/H-S) GALV STEEL APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE NEARLY AS OF THIS 2002

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 AISI/TPI 1 SEC. 2

[illegible]

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 59687, dated August 6, 2006.

FL/-4/-1/R/-		Scale=.1875"/ft.	
TC LL	20.0 PSF	REF	R487 - 67709
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06216095
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	118615 REV
DUR.FAC.	1.25		
SPACING	SFF ABOVE	JRFF-	1SZH4R7 Z01



Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Web	2x4	SP	#3	:M1, W

End verticals exposed to wind pressure. Deflection meets  $L/240$  criteria for brittle and flexible wall coverings.

See DWGS A11015EE0405 & GBLETTIN0405 for more requirements.

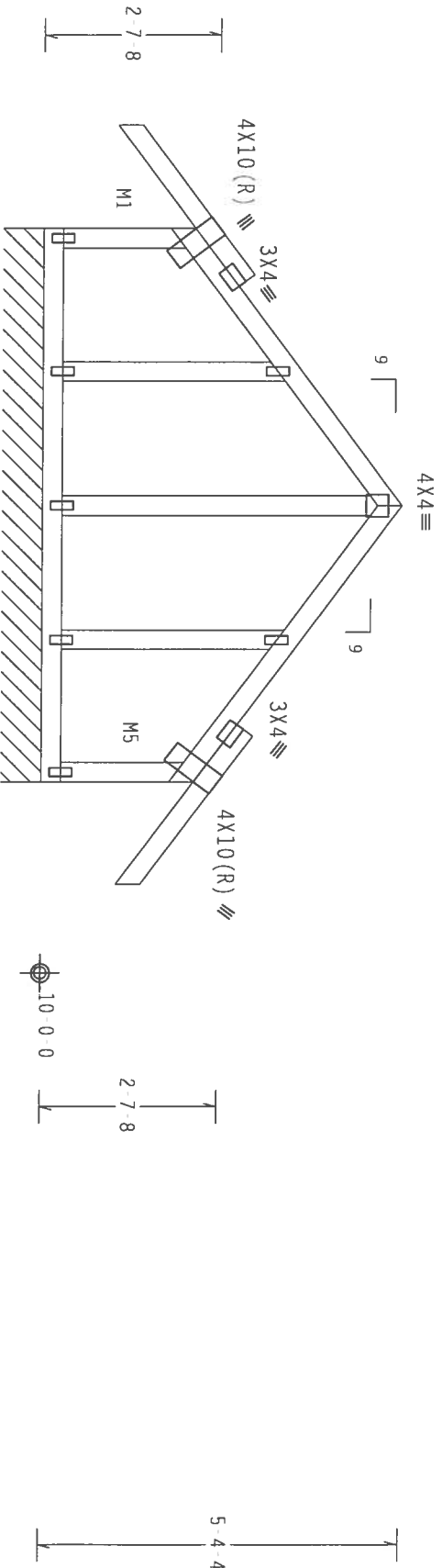
Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

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

Truss spaced at 24.0" OC designed to support 1-6 0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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.



8-3-0 Over Continuous Support →

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave



Alpine Engineered Products, Inc.

1950 Marney Drive  
Haines City, FL 33844

FL Certificate of Authorization # 567

[illegible]

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

## ADDITIONAL READING

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN.

## ALFANI ENGINEERED TO BUILD THE

TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLATION

## BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA)

TP1. ALPINE

CONNECTOR PLATES ARE MADE OF 20/18/16GA (H, H/S/K) ASTM A653 GRADE 40/60 (H, K/T

Y. STEFL. APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITIONED AS SHOWN.

FOR DRAWINGS 160A-Z.

ANY INSPECTION OF PILES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 SELECTING DRAWING INDICATES ACCORDANCE OF PROPOSED PILE WITH THE REQUIREMENTS OF THE

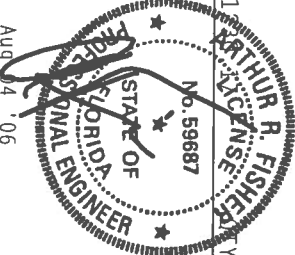
A SEAL ON THIS

# DESIGN SHOW THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR BUILDING

THE IRUS COMPONENT

THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS  
BUILDING DESIGNER PER ANSI/AP1 1 SEC. 2

## RESPONSIBILITY OF THE

[illegible]

FL / - / 4 - / - / R / -		Scale = .375" / Ft.	
TC LL	20.0 PSF	REF	R487 - 67711
TC DL	10.0 PSF	DATE	08/04/06
BC DL	10.0 PSF	DRW	HGUSR487 06216097
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	121402
DUR.FAC.	1.25		
SPACING SEE ABOVE		JREF	1SZH487 201

# BEARING BLOCK NAIL SPACING DETAIL

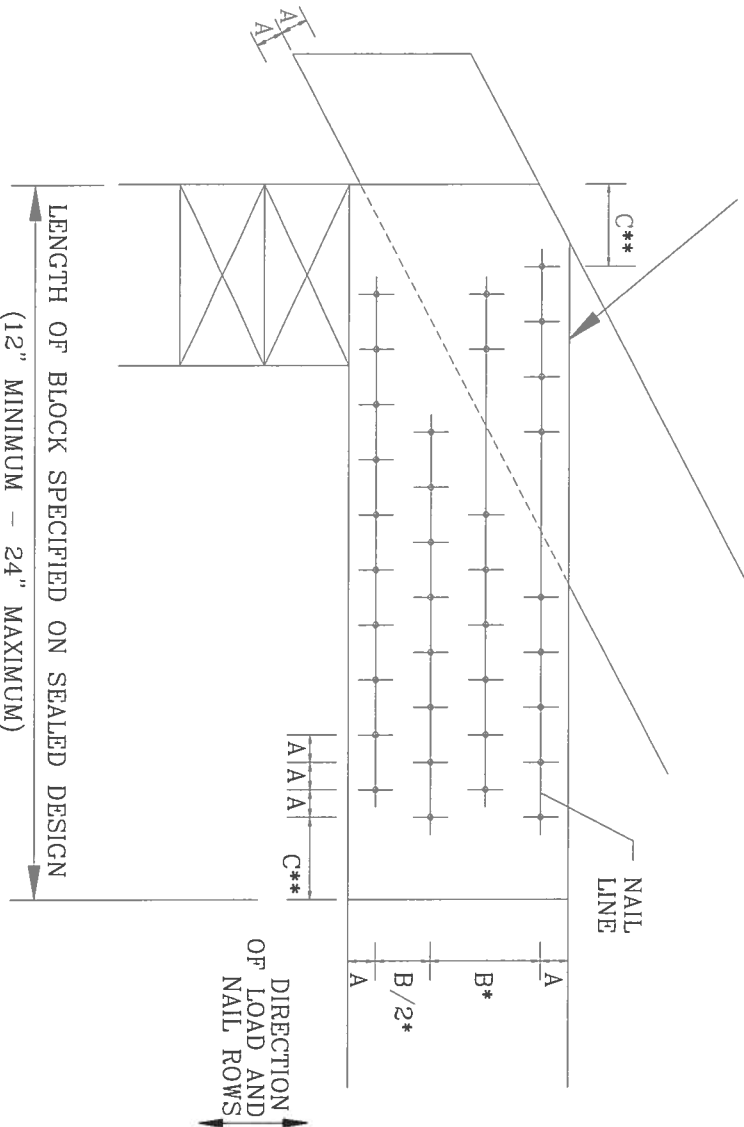
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

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

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:  
 • SPACING MAY BE REDUCED BY 50%  
 • SPACING MAY BE REDUCED BY 33%

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



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

## MINIMUM NAIL SPACING DISTANCES

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

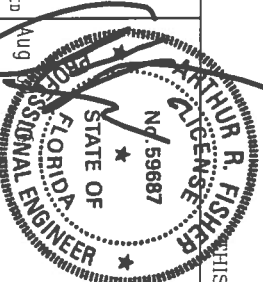
THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PRODUCTS, INC.), 3800 WILSON ROAD, SUITE 200, HANOVER, VA 22060 AND TPI (TRUSS PRODUCTS, INC.), 3800 WILSON ROAD, SUITE 200, HANOVER, VA 22060 FOR THE LATEST REVISIONS OF 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 BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/EA AND TPI). ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (V/A/S/X) ASTM A653 GRADE 50. ALL TRUSS AND CHORD MEMBERS SHALL BE MADE OF 20/18/16GA (V/A/S/X) ASTM A653 GRADE 50. ALL TRUSS AND CHORD MEMBERS SHALL BE PER ANNEAL AS 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.



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



# BEARING BLOCK NAIL SPACING DETAIL

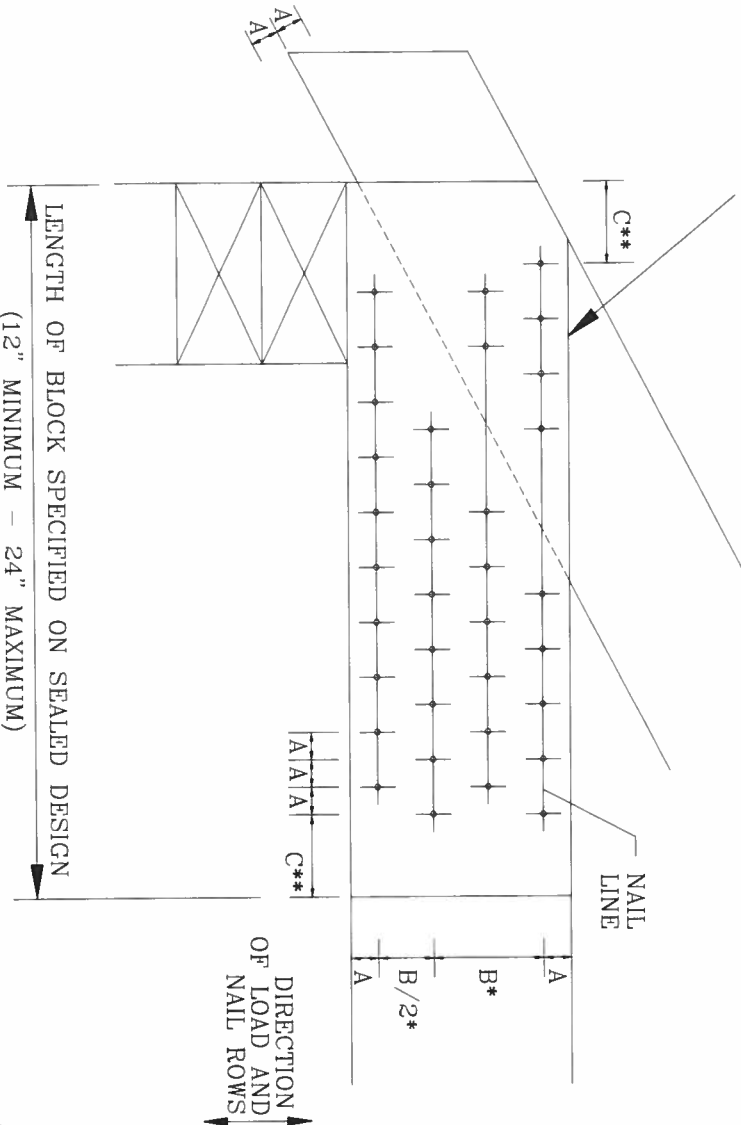
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

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

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:  
 • SPACING MAY BE REDUCED BY 50%  
 • SPACING MAY BE REDUCED BY 33%

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



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

## MINIMUM NAIL SPACING DISTANCES

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

LENGTH OF BLOCK SPECIFIED ON SEALED DESIGN  
 (12" MINIMUM - 24" MAXIMUM)

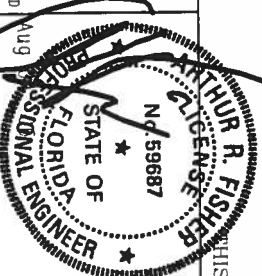
DIRECTION OF LOAD AND NAIL ROWS

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
 POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY) AND VITAC (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENCLAVE DRIVE, SUITE 200, FORT WORTH, TEXAS 76116) FOR SAFETY PRACTICES PRIOR TO PERFORMING 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 CONNECTORS WITH APPLICABLE PROVISIONS OF AIA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENCLAVE DRIVE, SUITE 200, FORT WORTH, TEXAS 76116) AND VITAC (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENCLAVE DRIVE, SUITE 200, FORT WORTH, TEXAS 76116) SHALL BE USED. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.



REF BEARING BLOCK  
 DATE 11/26/03  
 DRWG CNBRGJLK1103  
 -ENG SJP/KAR

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

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

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

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

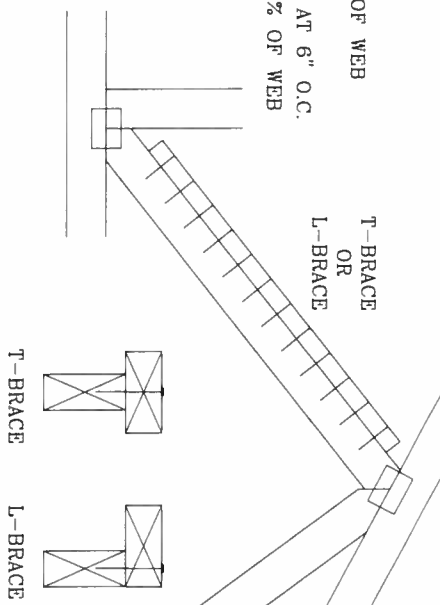
ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

**WARNING:** THESE DEVICES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC1-103 "BUILDING COMPONENT SAFETY INFORMATION," PUBLISHED BY TPI TRUSS AND PLATE INSTITUTE, 583 DUNDRIID RD., SUITE 200, MADISON, WI 53719, AND WTA (WOOD TRUSS CONCRETE) OF AMERICA, 6300 ENTERPRISE IN. MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*IMPORTANT:** A TRUE 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 FOR NON-CONTRADICTORY DESIGN SPECIFICATIONS AND REQUIREMENTS AND MEETS ALL REQUIREMENTS OF 2018/ALFA AISC 360 DESIGN BASIS GRADE 50/60 PLAYS IN FULL STEEL CONNECTIONS AND PLATES OF GRADE 50/60 FILLERS BY TPI. PER ANNEK A3 OF TPI-1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THIS DESIGN. POSITION FOR DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY J) SHALL BE 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.

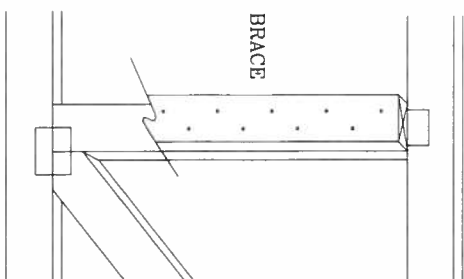
APPLY TO EITHER SIDE OF WEB  
NARROW FACE.  
ATTACH WITH 16d NAILS AT 6" O.C.  
BRACE IS A MINIMUM 80% OF WEB  
MEMBER LENGTH

T-BRACE  
OR  
L-BRACE



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

SCAB BRACE

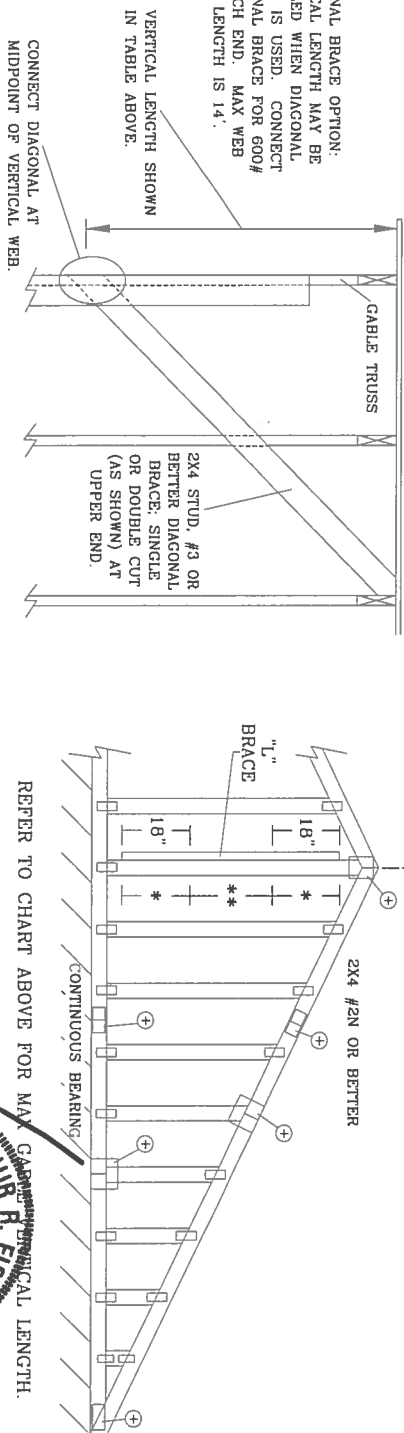


THIS DRAWING REPLACES DRAWING 579,640

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

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

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



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

VERTICAL LENGTH SHOWN  
IN TABLE ABOVE.

CONNECT DIAGONAL AT  
MIDPOINT OF VERTICAL  
WEB.

REFER TO CHART ABOVE FOR MAX GABLE VERTICAL 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.

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 16" END ZONES AND 6' O.C. BETWEEN ZONES.  
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB  
MEMBER LENGTH.

#### GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.  
PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER  
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).  
CABLE END SUPPORTS LOAD FROM 4' 0"  
OUTLOOKERS WITH 2' 0" OVERHANG, OR 12"  
PLYWOOD OVERHANG.

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

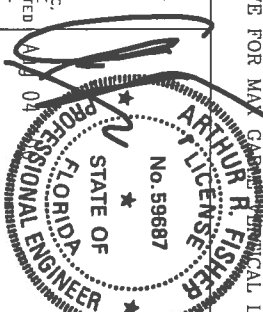
ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST-1-03 BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI (TRUSS 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 SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS OR THE BRACING. THE CONTRACTOR SHALL BUILD THE TRUSS IN CONFORMANCE WITH TPI (TRUSS 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.

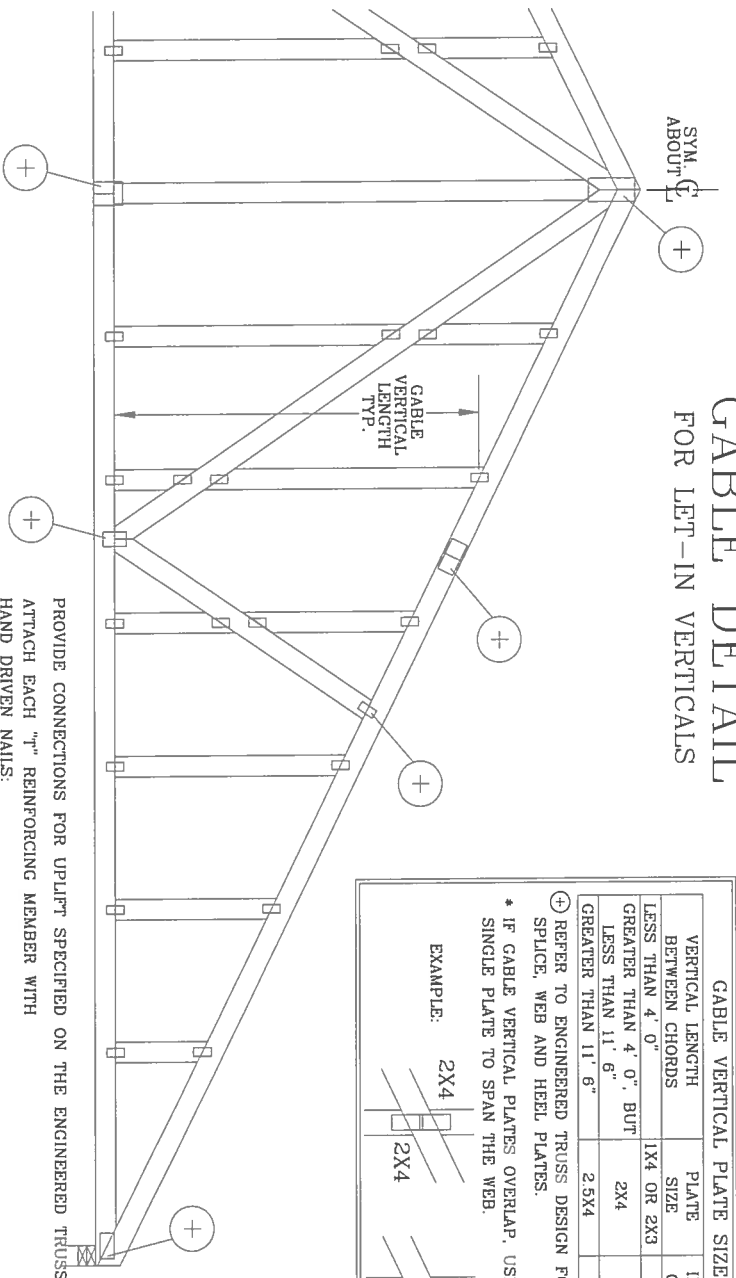
40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEER'S RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SEAL AND SIGNATURE ARE THE COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC E.



MAX. TOT. LD. 60 PSF  
MAX. SPACING 24.0"

REF ASCCE-02-CAB1015  
DATE 04/15/05  
DRWG A1015EE0405  
-ENG

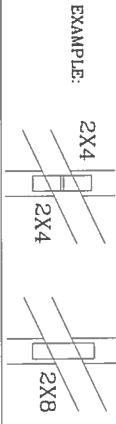
# CABLE DETAIL FOR LET-IN VERTICALS



**GABLE VERTICAL PLATE SIZES**

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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



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 SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL, DRAWINGS

A11015ENI103, A10015ENI103, A09015ENI103, A08015ENI103, A07015ENI103

A11030ENI103, A10030ENI103, A09030ENI103, A08030ENI103, A07030ENI103

ASCE 7-98 GABLE DETAIL, DRAWINGS

A13015ECI103, A12015ECI103, A11015ECI103, A10015ECI103, A08015ECI103

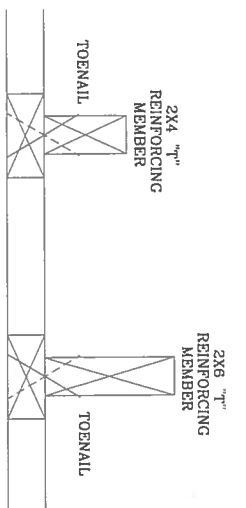
A13030ECI103, A12030ECI103, A11030ECI103, A10030ECI103, A08030ECI103

ASCE 7-02 GABLE DETAIL, DRAWINGS

A13015EED0405, A12015EED0405, A11015EED0405, A10015EED0405, A08015EED0405

A13030EED0405, A12030EED0405, A11030EED0405, A10030EED0405, A08030EED0405

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



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

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

## WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MPH	"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 %	40 %
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

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

"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

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

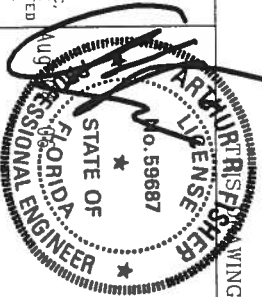
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

1.10 x 6' 7" = 7' 3"

THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA



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

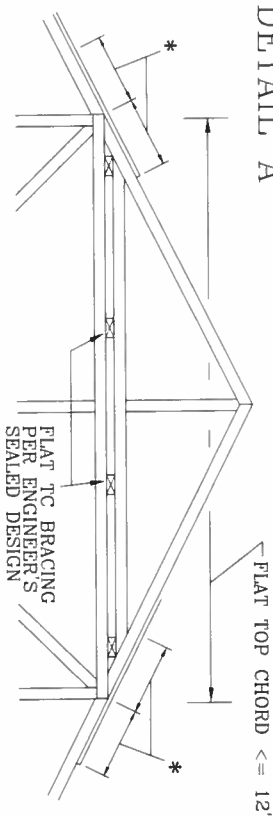
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG,  
LOCATED ANYWHERE IN ROOF, CAT II, EXP C,  
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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.

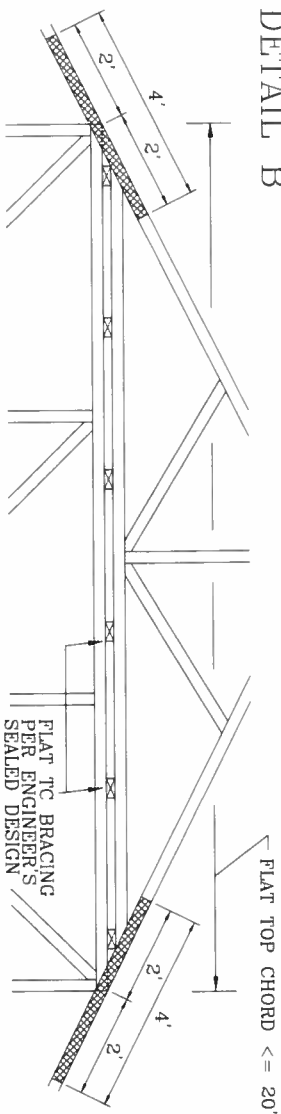
## DETAIL A



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

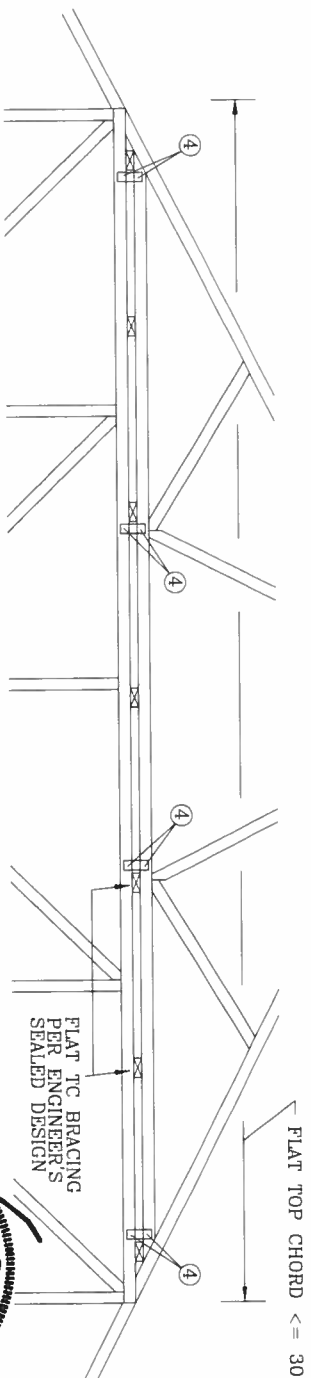
\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5")  
OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

## DETAIL B



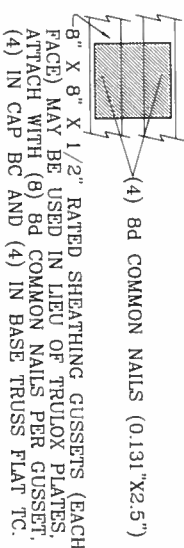
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP  
CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND  
SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY)  
ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

## DETAIL C



CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS.  
CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.

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.

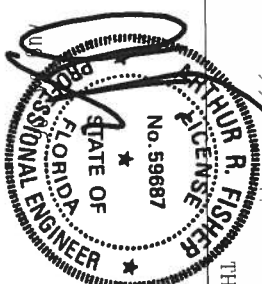


THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND  
BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS  
PLATE INSTITUTE, 583 DUNDREID DR., SUITE 200, MADISON, WI 53719, AND AISC (WOOD TRUSS COUNCIL  
OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES FOR TOENAILING  
THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.  
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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING &  
BRACING OF TRUSSES. DESIGN CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) WITH 62PB SPECIAL  
40/60 (W/H/S) GALV STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND TO EACH SIDE OF CHORD INDICATED  
ON THIS DESIGN. POSITION PER DRAWINGS 160TL, 160TR, 160BL, 160BR, 160TL, 160TR, 160BL, 160BR. THIS SHALL  
BE PER ANNEA A3 OF TPI 1-2002, SEC. 3. A PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE SHALL BE  
OBTAINED FOR THE TRUSS DESIGN. THE PROFESSIONAL ENGINEERING SEAL SHALL BE OBTAINED BY A  
PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF FLORIDA, WHO SHALL BE RESPONSIBLE FOR THE TRUSS  
DESIGNER, PER ANSI/PT 1 SEC 2



TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGGYBACKA0405
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:

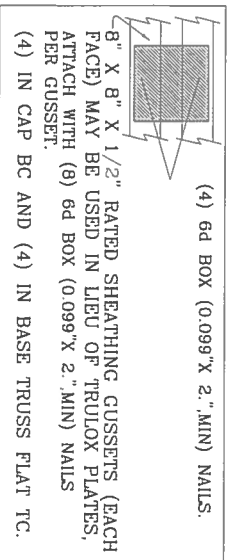
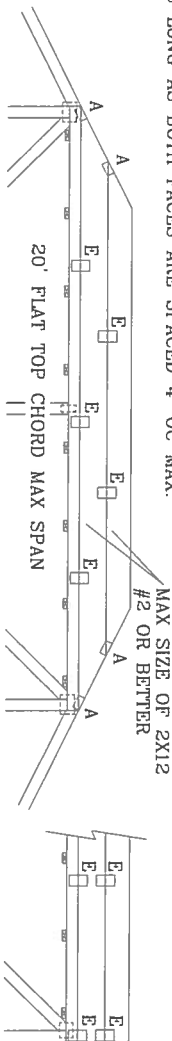
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C,

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.



(4) 6d BOX (0.099" X 2" MIN) NAILS.

"B" X "B" 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.

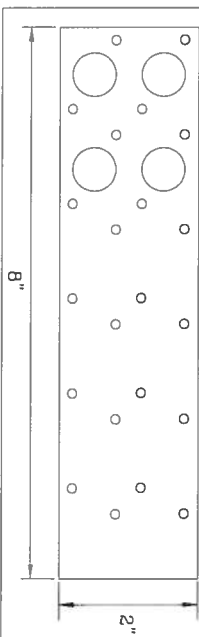
(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

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

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

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



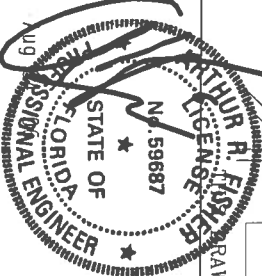
\* ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 593 DOWNSIDE DR., SUITE 200, MADISON, WI 53719, AND VTEC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH 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 CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC, 40/60 (C/K/H/S) D/L V. STEEL. APPLIES PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED BY AFRAP AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16/6A (C/H/S/K) ASTM A653 GRADE 40/60 (C/K/H/S) D/L V. STEEL. APPLIES 1606-2. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PERFORMED BY A DESIGNATED PROFESSIONAL ENGINEER. THE TRUSS COMPANY SHALL BE RESPONSIBLE FOR THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2



ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

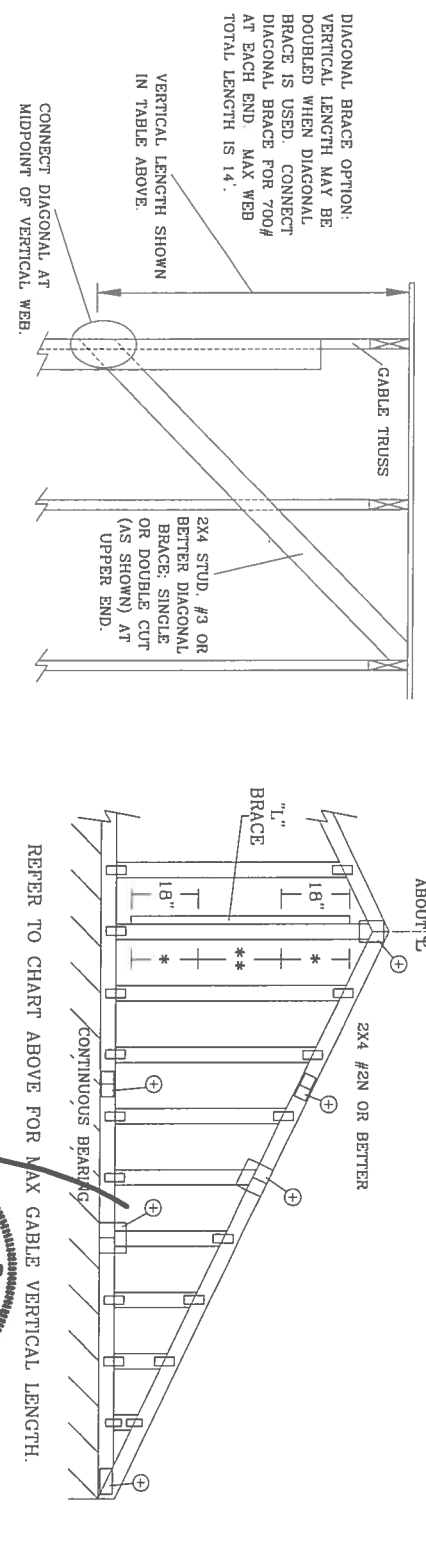


DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045

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

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

# MAX GABLE VERTICAL LENGTH



ALPINE  
ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

**WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR BUILDING COMPONENT SAFETY. TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. 6300 ENTERPRISE LN, MADISON, VI 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 BE RESPONSIBLE FOR DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE (IBC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2015/1664 (VH/SA) ASTM A553 GRADE 40/60 (VH/SA) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (D) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE DESIGN. THE DESIGNER'S RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE DESIGNER, PER ANSI/TPI 1 SEC. 2

ARTHUR P. FISHER  
No. 59687  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

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

## CABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 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' 0".
- \* IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
- \*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' 0".
- IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

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

REF ASCE7-02-CAB11030

DATE 04/14/05

DRWG A11030E0405

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MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"