

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: ISXX487-Z0309155347

Truss Fabricator: Anderson Truss Company
Job Identification: 6-211--Prudential Builders, Inc. #40 Calloway II -- , **
Truss Count: 44
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



Seal Date: 06/09/2006

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

-Truss Design Engineer-
Arthur R. Fisher

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

Details: BRCLBSUB-TCFILLER-BCFILLER-CNBRGBLK-A11015EE-GBLLETIN-PIGBACKA-PIGBACKB-

#	Ref	Description	Drawing#	Date
1	95997--A1		06160094	06/09/06
2	95998--A2		06160095	06/09/06
3	95999--A3		06160096	06/09/06
4	96000--A4		06160097	06/09/06
5	96001--A5		06160098	06/09/06
6	96002--A6		06160099	06/09/06
7	96003--A7		06160100	06/09/06
8	96004--A8		06160101	06/09/06
9	96005--A9		06160102	06/09/06
10	96006--B1		06160105	06/09/06
11	96007--B2		06160106	06/09/06
12	96008--B3		06160107	06/09/06
13	96009--B4		06160108	06/09/06
14	96010--B5		06160109	06/09/06
15	96011--B6		06160110	06/09/06
16	96012--C1-GE		06160111	06/09/06
17	96013--C2		06160112	06/09/06
18	96014--C3		06160113	06/09/06
19	96015--D1		06160119	06/09/06
20	96016--D2G		06160120	06/09/06
21	96017--EJ7		06160046	06/09/06
22	96018--HJ3		06160116	06/09/06
23	96019--EJ3		06160117	06/09/06
24	96020--J1		06160121	06/09/06
25	96021--JA1		06160123	06/09/06
26	96022--JA2		06160093	06/09/06
27	96023--JB1		06160124	06/09/06
28	96024--JB3		06160103	06/09/06
29	96025--JB4		06160104	06/09/06
30	96026--HJR1		06160125	06/09/06
31	96027--EJR1		06160126	06/09/06
32	96028--JR1		06160127	06/09/06
33	96029--JR2		06160128	06/09/06
34	96030--HJR2		06160129	06/09/06
35	96031--EJR2		06160130	06/09/06
36	96032--K1		06160118	06/09/06

#	Ref	Description	Drawing#	Date
37	96033--K2G		06160115	06/09/06
38	96034--BP1		06160137	06/09/06
39	96035--R1G		06160132	06/09/06
40	96036--S1-GE		06160133	06/09/06
41	96037--S2		06160114	06/09/06
42	96038--Z1-GE		06160134	06/09/06
43	96039--Z2		06160135	06/09/06
44	96040--Z3		06160136	06/09/06





352-317-3700
Justin Fitchback

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W12 2x4 SP #2 Dense:

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.54 to 64 PLF at 26.96
BC - From 5 PLF at -1.54 to 5 PLF at 0.00
TC - From 20 PLF at 0.00 to 20 PLF at 26.96
TC - 26 LB Conc. Load at 2.02
TC - 193 LB Conc. Load at 4.02, 6.02, 8.02, 10.02, 12.02
14.02, 16.02, 18.02, 20.02, 22.02, 24.02, 26.02
BC - 248 LB Conc. Load at 2.02
BC - 82 LB Conc. Load at 4.02, 6.02, 8.02, 10.02, 12.02
14.02, 16.02, 18.02, 20.02, 22.02, 24.02, 26.02

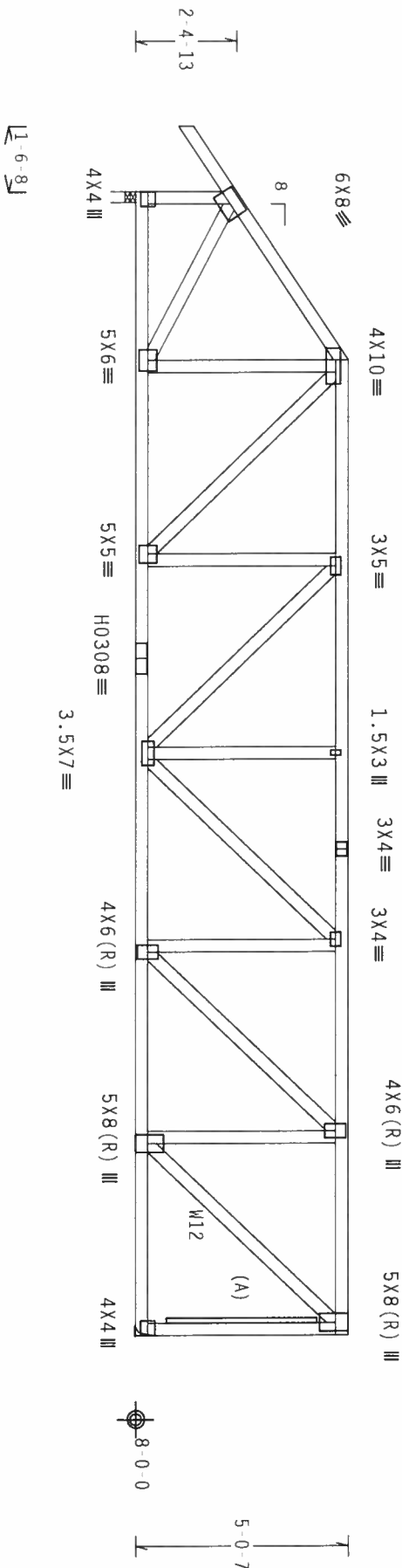
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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

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

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



PLT TYP. 20 Gauge HS, Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.24.1

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

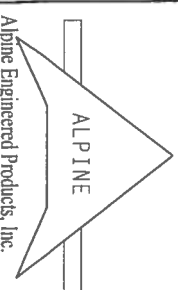
Scale = .25"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES 1.03 (BUILDING COMPONENT SAFETY INFORMATION). FOLDING OF TRUSSES SHALL BE PROHIBITED. TRUSSES SHALL BE STORED AND HANDLED IN A MANNER THAT WILL PREVENT DAMAGE TO THE TRUSSES. TRUSSES SHALL BE PROTECTED FROM WEATHER AND MOISTURE. TRUSSES SHALL BE PROTECTED FROM PESTS. TRUSSES SHALL BE PROTECTED FROM FIRE. TRUSSES SHALL BE PROTECTED FROM THEFT. TRUSSES SHALL BE PROTECTED FROM VANDALISM. TRUSSES SHALL BE PROTECTED FROM OTHER HAZARDOUS ACTS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT TURNIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

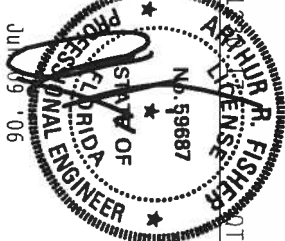
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. DESIGN CONFORMS WITH THE FOLLOWING: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN SHOWS 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
(888) 447-2266
Fax: (888) 447-2266

on # 567



TC LL	20.0 PSF	REF R487-- 95997
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUR847 06160094
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 78722 REV
DUR.FAC.	1.25	
SPACING	SEE ABOVE	
JRFF- 1SXX/87 203		

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

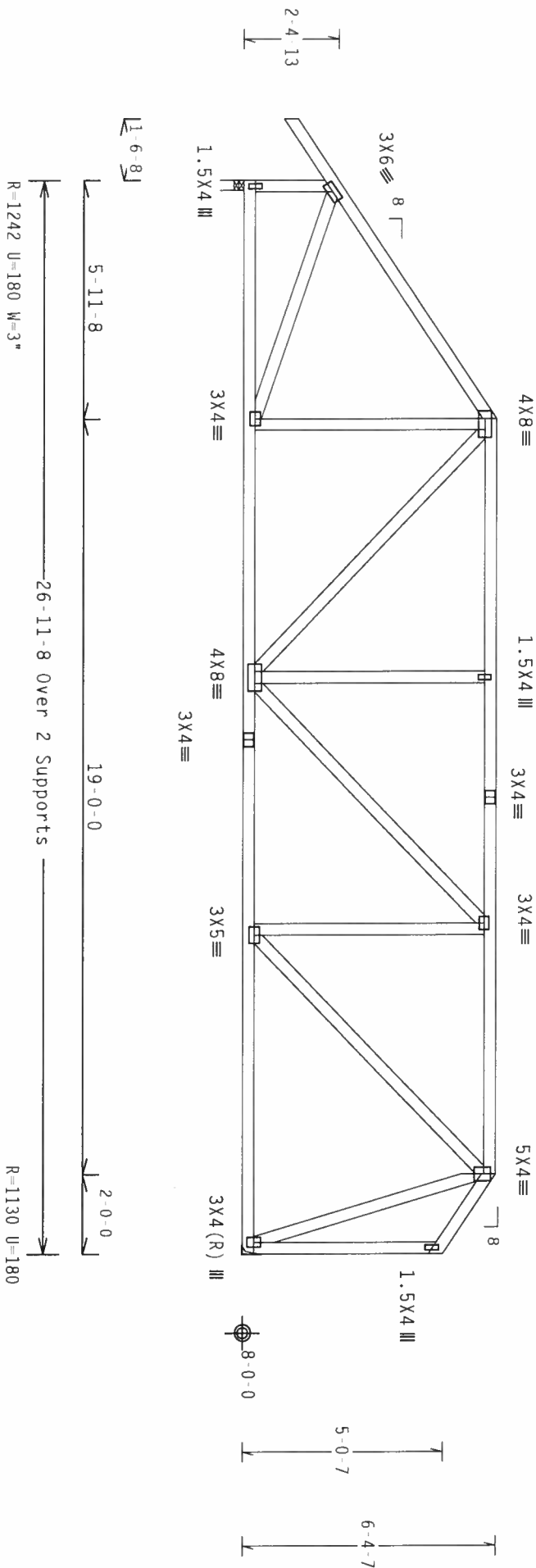
Left end vertical exposed to wind pressure. Deflection meets L/240
criteria for brittle and flexible wall coverings.

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.

Right end vertical not exposed to wind pressure.

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



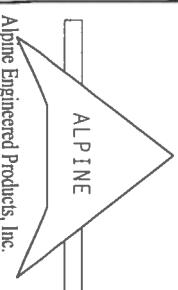
PLT TYP. Wave

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI CROSS PLATE INSTITUTE, 563
HARDING BLVD, SUITE 100, FARMINGTON, CT 06031) AND AIAA (GOOD TRUSS CONSTRUCTION, 6300 FARMINGTON RD,
HARDING BLVD, SUITE 100, FARMINGTON, CT 06031) FOR ADDITIONAL INFORMATION. THE TRUSS DESIGNER SHALL
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED
RIGID CEILING

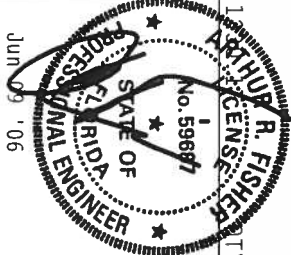
IMPORTANT TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES,
DESIGN CONTRACTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE
CONNECTION PLATES ARE MADE OF 20/10/10GA (M. H/S/K) ASTM A653 GRADE 40/60 (M. K/H/S) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANNEX A3 OF TPI 2002 SEC. 2.



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

Scale of: 1/4" = 1'-0"
Job # 567



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

Scale = .25"/ft.

TC LL	20.0 PSF	REF R487 - 95998
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUSR487 06160095
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 108679
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SXX487 203

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

Right end vertical not exposed to wind pressure.

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


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

Scale = .25"/Ft.

No. 59687

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

Alpine Engineered Products, Inc.

Scale of λ on # 567

IN # 567

1500

TC LL	20.0 PSF	REF	R487 - 95999
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCU8R487 06160096
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	106688
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	1SXK487 Z03

JRFF - 1SXX4A7 Z03

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.

(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.



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

Scale = .25"/Ft.

ARTHUR R. FISHER
LICENSE
No. 59687

TC LL	20.0 PSF	REF	R487 -	96000
TC DL	10.0 PSF	DATE	06/09/06	
BC DL	10.0 PSF	DRW	HCUSR487	06160097

—

BC DL	10.0 PSF	DRM	HCUSR487	06160097
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT. LD.	40.0 PSF	SEQN	108695	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1SX487	Z03

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.

See DWGS TCFILLER1103 and BCFILLER1103 for filter details.

In lieu of structural panels use purtins to brace TC @ 24" OC.

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


$$\frac{Cq/RT=1.00(1.25)/10(0)}{7.24}$$

Scale = .1875"/Ft.

***** 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 IP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONDUCTOR PLATES ARE MADE OF 20/17/16GA (H.M.S/K) ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL.
CONNECTOR PIPES ARE APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AIA/PFA) AND THE
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AIA/PFA) AND THE
APPLY TO EACH FACT OF THOUS AND
UNLESS OTHERWISE NOTED ON THIS DESIGN POSITION OR DRAWINGS LEGA-2

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 COMPONENTS

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/UP1 1 SEC. 2.

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

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF
IDAHO
REGISTERED
ENGINEER
JUN 9 '06

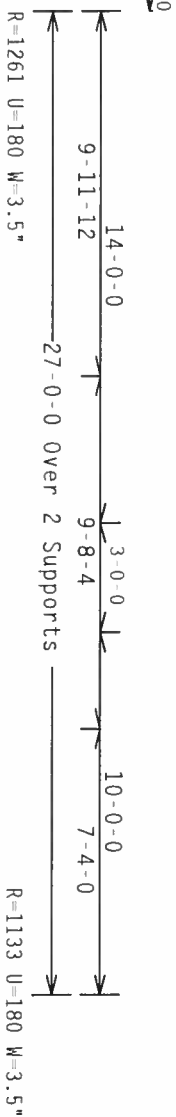
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TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCU8R487 06160098
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	108788
DUR.FAC.	1.25		
SPACING	24.0"	URFF	ISXXR487 203

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.

(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.



Scale = .1875"/Ft.

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

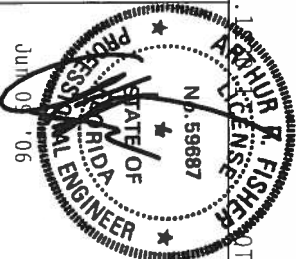
ALPINE ENGINEERD



ALPINE

Alpine Engineered Products, Inc.

icate of / m # 567



TC LL	20.0 PSF	REF	R487 - - 96002
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160099
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN -	108773
DUR.FAC.	1.25		
COATING	24.0"	JRFF -	1SXXA07 203

110 mph wind, 15.04 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=5.0 psf

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

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



7.24.12

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

Scale = .1875"/Ft.

ALP1 ME ENGINEERED

OR
:

FABRICATING, HANDLING, SHIPPING, INSTALLING & OPERATING

WING OF TRUSSES.

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

LET'S APPLY

ANY INSPECTION OF PLANTS FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3.

A SEAL ON THIS

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

ABILITY OF THE

90. 6070

TC LL	20.0 PSF	REF	R487 - 96004
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160101
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	108758
DUR.FAC.	1.25		
SDVJING	24.0"	JREF-	15XXA47 Z03

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

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

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


$$\begin{array}{c} \leftarrow \\ 1-6-1 \\ \rightarrow \end{array}$$

R=1416 U=180 W=3.5^m

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

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

PROPERTY: 1

FL/4/1/R/

Scale = .1875"/Ft.

ALPINE ENGINEERED

BC LL 0.0 PSF

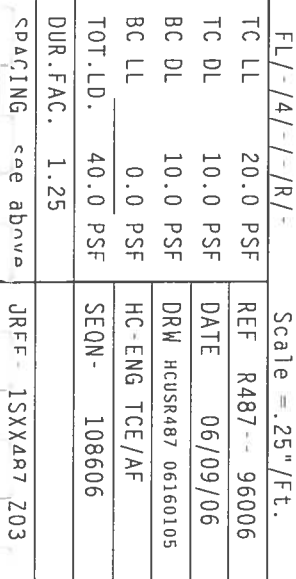
Jun 09 '06

SPACING 24.0"

REF - LSXXΔΔ / 203

(A) Continuous lateral bracing equally spaced on member.

Provide connection for concentrated load(s) shown.

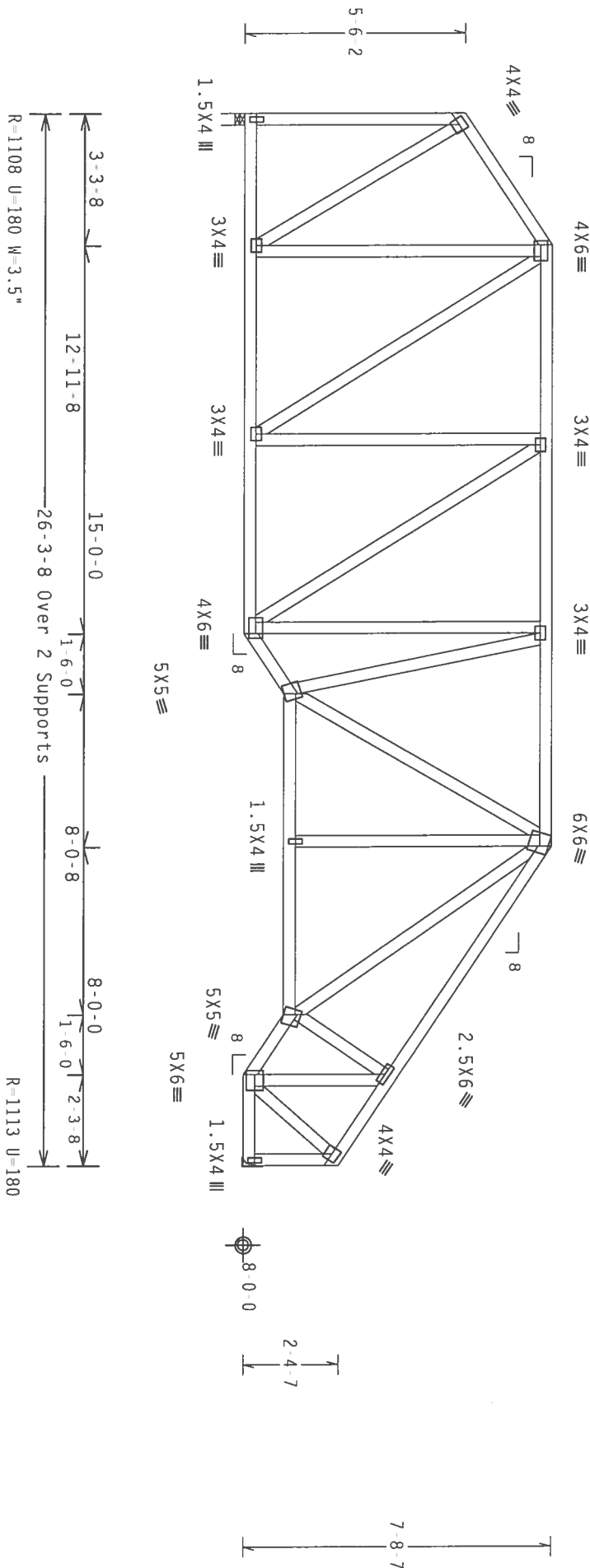


Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

End verticals not exposed to wind pressure.
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.



PLT TYP. Wave

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

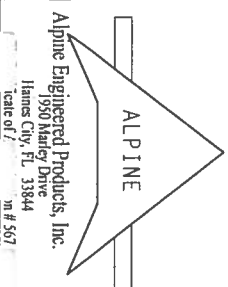
FL/-/4/-/R/-

Scale = .25"/ft.

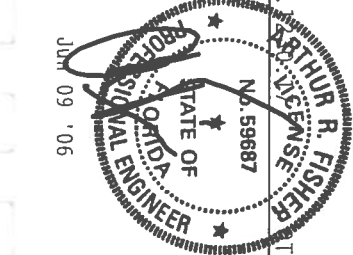
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES 1-03 CONTAINING COMPONENT SAFETY INFORMATION. PROHIBITED BY TPI (TRUSS PLATE INSTITUTE, 503 HAWKINS BLVD, SUITE 200, FORT WORTH, TEXAS 76102) AND WCA (WOOD CORD TRUSS COMPANY, 6500 ENTERPRISE LN, HAWKINS BLVD, SUITE 200, FORT WORTH, TEXAS 76102) FOR THE DESIGN OF TRUSSES. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

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 AIAA) AND TPI. APPLY CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/U/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 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMST/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1990 Marley Drive
Haines City, FL 33844
Phone: 888-257-5677
Fax: 888-257-5678
Website: www.alpineeng.com



TC LL	20.0 PSF	REF	R487-96008
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCSR487 06160107
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	108646
DUR.FAC.	1.25		
CD/CING	24.0"	JRFF	1SXXAR7 Z03

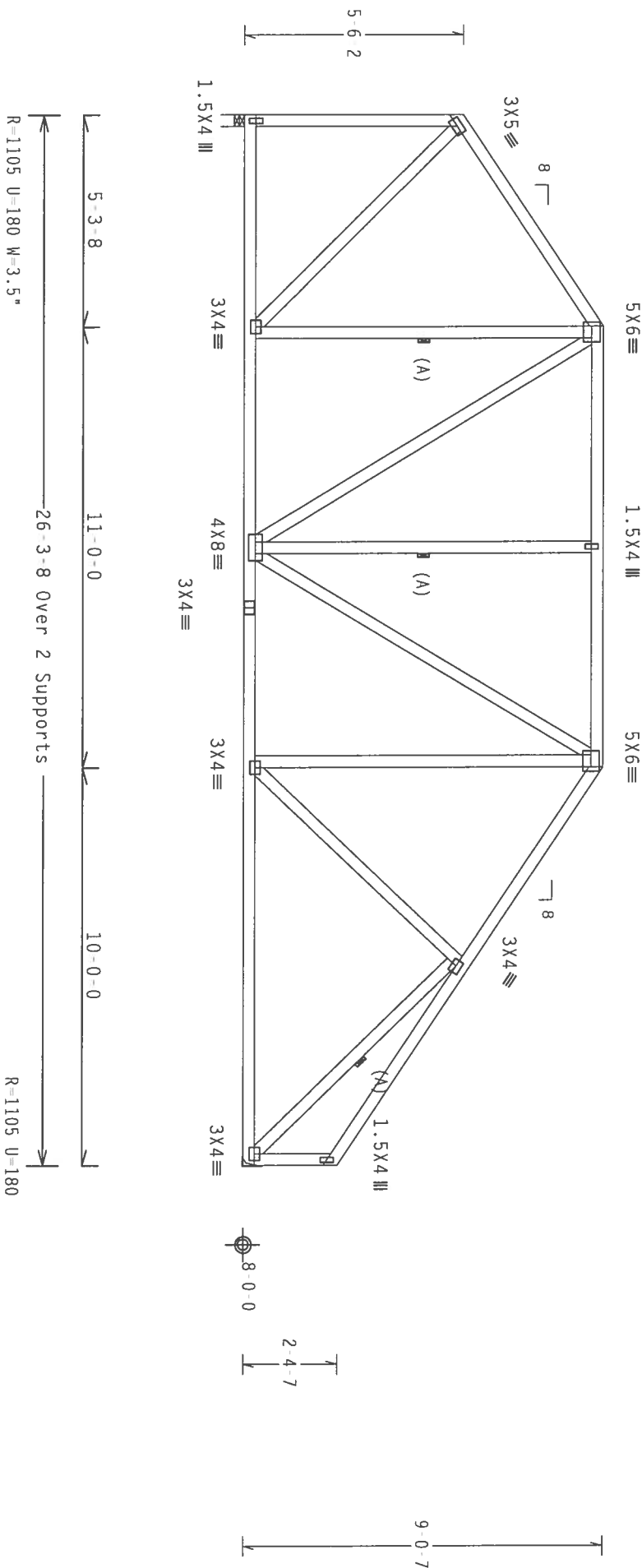
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

(A) 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)

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

Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SPEC 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PROVIDED BY TPI (TRUSS PLATE INSTITUTE, 583 BROADVIEW DR., SUITE 200, FARMINGTON, CT 06031) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6800 ENTERPRISE LN, SUITE 100, FARMINGTON, CT 06031) FOR TRUSS CONNECTIONS TO PERFORMING 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.

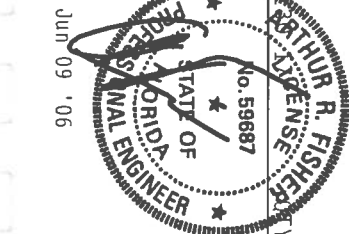
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, DESIGN CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.U/S/S) ASTM A653 GRADE 40/60 (4, K/U-S) GALV. STEEL. APPLY PLATES TO EACH FACT 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 BUILDING OR SIGHTER PER ANNEX TPI 1 SEC. 2.

ALPINE ENGINEERED PRODUCTS, INC.

ALPINE

Alpine Engineered Products, Inc.
1950 Kaley Drive
Haines City, FL 33844
Tel: 888/567-5677

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



TC LL	20.0 PSF	REF R487--	96009
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW HCUSR487	06160108
BC LL	0.0 PSF	HC-ENG TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	108654
DUR.FAC.	1.25		
COATING	24.0"	JRFF-	1SXX487 203


```

webs 2x4 SP #3
Filler 2x4 SP #3

```

(A) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace TC @ 24" OC.

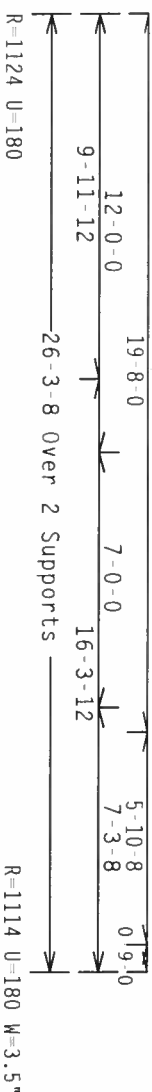
laterally brace BC at 24" OC in lieu of rigid ceiling
laterally brace BC above filler at 24" OC including a
lateral brace at chord ends.

110 mph wind, 15.00 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=5.0 psf.

Right end vertical not exposed to wind pressure.

See DWGS TCFILLER1103 and BCFILLER1103 for filler details.

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



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

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

Scale = .1875"/Ft.

WARNING PROGRESS ROUTINE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DECS 1-3 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI, 11805 PULP INSTITUTE, #303, D'ONOFIO RD., SUITE 200, MADISON, WI 53719, AND WICA (WOOD INDUSTRY COUNCIL OF AMERICA, 6300 INDEPENDENT BLVD, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TOP GIRDERS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PAIETS, AND BOTTOM GIRDERS SHALL HAVE A PROPERLY ATTACHED CEILING.

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

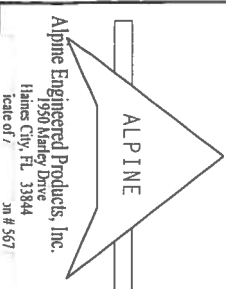
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND IPI. ALPINE
CONNECTOR PLATES ARE MADE OF 2018/16GA (M.M/S/K) ASTM A653 GRADE 40/60 (M. K/H.S) GALV. STEEL. APPLY

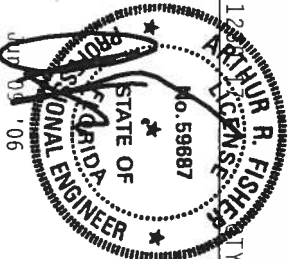
PLATES TO EACH TAIL OF IRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 1011 2002 SEC.3. A SEAL ON THIS

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc
1950 Marley Drive
Haines City, FL 33844
icate of / jn # 567



FL/-/4/-/-/R/-		Scale = .1875"/ft.	
TC LL	20.0 PSF	REF	R487 - 96010
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160109
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	108706
DUR.FAC.	1.25		
SPACING	24.0"	URFF -	1SXX487 203

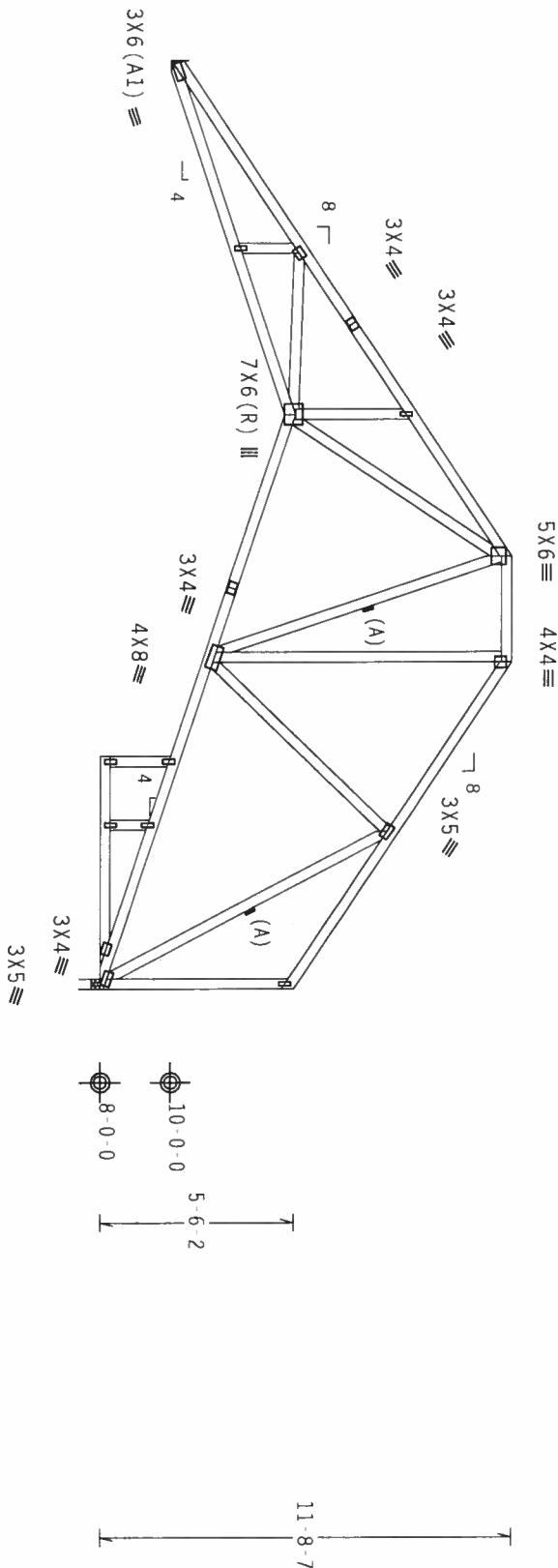
webs	2x4	SP	#3
Filler	2x4	SP	#3

(A) Continuous lateral bracing equally spaced on member.

Laterally brace BC at 24" OC in lieu of rigid ceiling
Laterally brace RC above filler at 24" OC including a

lateral brace at chord ends.

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



$\begin{array}{c} \text{---} 19-8-0 \text{---} \text{---} 5-10-8 \text{---} 0 \text{---} 9-0 \text{---} \\ \text{---} 14-0-0 \text{---} \text{---} 3-0-0 \text{---} \text{---} 9-3-8 \text{---} \\ \text{---} 9-11-12 \text{---} \text{---} 16-3-12 \text{---} \\ \text{---} 26-3-8 \text{ Over 2 Supports ---} \\ \text{---} \end{array}$

$\begin{array}{c} R=1124 \text{ } U=180 \\ R=1114 \text{ } U=1 \end{array}$

Note: All Plates Are 1.5X4 Except As Shown.

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

PLT TYP. Wave

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

CONFIDENTIAL

TTY:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.



Alpine Engineered Products, Inc.

Flaines City, FL 33844
ate of A in # 567

m # 567

WARNING PARTIES REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. REFER TO SPEC 1.03 (BUILDING COMPONENTS IN FABRICATION), HANDSHED BY IPI (TRUSS MADE INSTITUTE, 963 O'CONNOR DR., SUITE 200, MADISON, MI 48131) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE IN MADISON, MI 53719) FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

ON FABRICATING, HANDLING, SHIPPING, INSTALLATION, AND MAINTENANCE OF THE SYSTEM.

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

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

BUILDING DESIGNER FOR ANSI/ISO 1 SEC. 2.

[illegible]

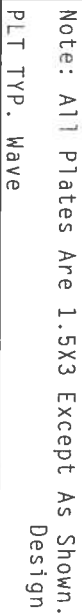
FL/-/4/-/-/R/-		Scale=.1875"/Ft.
TC LL	20.0 PSF	REF R487-- 96011
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUSR487 06160110
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 108724
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SXX187 Z03

(**) 2 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.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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)

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

FL/-/-/R/-/

Scale = .25" / Ft.

*****WARNING***** PROS REQUIRE EXPLICIT CARE IN FACTORING. HANDLING, STORING, INSTALLING AND BRACING REFER TO RES-1.03 (BUILDING EXPIRIENCE, SAFETY INFORMATION). PUBLISHED BY IPI (BUSINESS PLANS, INST. 363) 0'DONOHIO, DR., SUITE 200, MADISON, WI 53719, AND NICA (GOOD PRESS COUNCIL OF AMERICA, 6100 ENTERPRISE, MADISON, WI 53719) FOR SENTRY PRACTICES PRIOR TO DEMANDING BEST FUNCTIONS. UNLESS OTHERWISE INDICATED, PRO CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD SETTING.

****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 IT; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AISC/A) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (N. H/5/K) ASTM A653 GRADE 40/60 (N. K/H S) 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 PERMITTED AS OF IP112002 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.

15

FL/-/4/-/-/R/-	Scale = .25"/ft.
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"
JRF -	15XXA87 Z03

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.



4.1
ARTHUR B FISHER
LICENSE
No. 59687
OT

Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844
Scale of / in #567

ALPINE ENGINEERED

BRACING OF TRUSSES.

ALPINE

PLATES TO EACH FACT OF THREE AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A 2 CONNECTION PLATES ARE MADE OF 20/10/16006 (H. 11/5/7.) ASIN 6553 GRADE 40/60 (H. 8/11.5) GALV. SILIC. APPLY

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

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

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

BUILDING DESIGNER PER ANSI/HP1 1 SEC. 2.

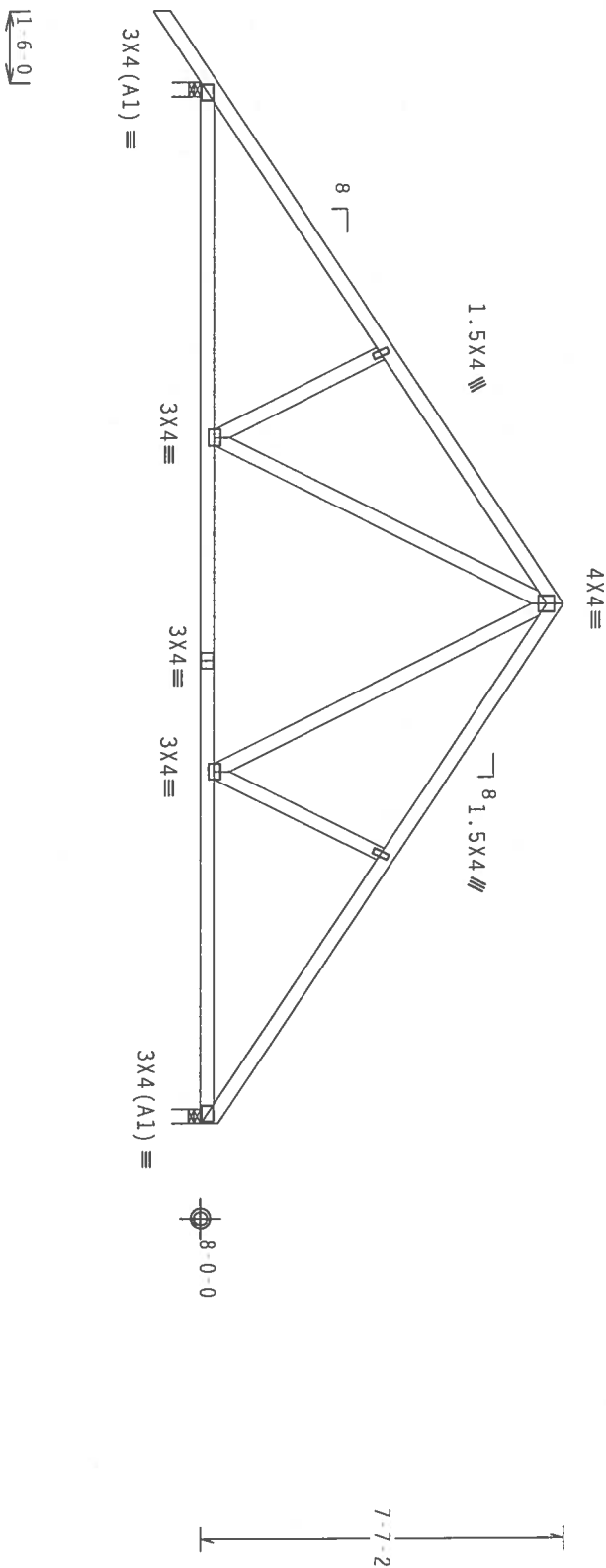
FL/-/4/-/4/-/R/-		Scale = .25"/Ft.
TC LL	20.0 PSF	REF R487 - 96013
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCURSR487 06160112
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 108490
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 15XXR487 203

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

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

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

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



PLT TYP. Wave

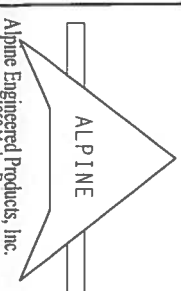
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.24.12 R. FISHER
FL/-/4/-/R/-

Scale = .25"/ft.

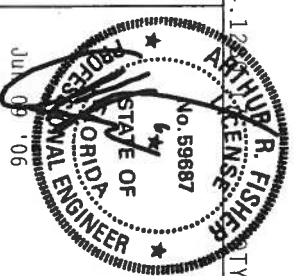
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGNS FOR CONSIDERING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 HAZEN RD., SUITE 100, FARMINGTON, CT 06031 AND TPI TRUSS PLATE INSTITUTE, 583 HAZEN RD., SUITE 100, FARMINGTON, CT 06031. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT TURN IN 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 APA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W, W/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 160A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMERICAN TPI SEC. 2.



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

Issue of /
ON # 567



TC LL	20.0 PSF	REF R487--	96014
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW HCUSR487	06160113
BC LL	0.0 PSF	HC-ENG TCE/AF	*
TOT. LD.	40.0 PSF	SEQN-	108504
DUR. FAC.	1.25		
BRACING	24.0"	JREF-1SXX487	203

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
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.

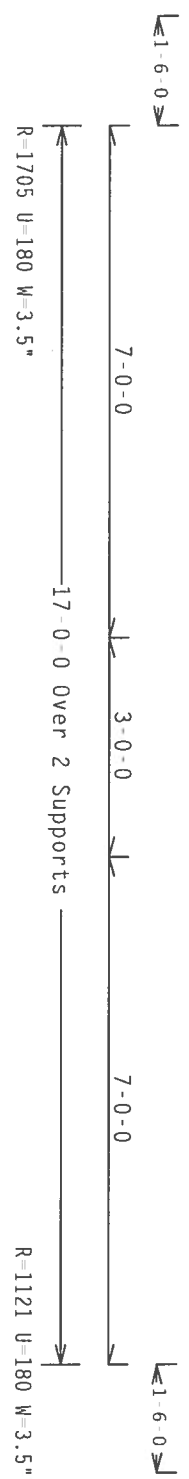
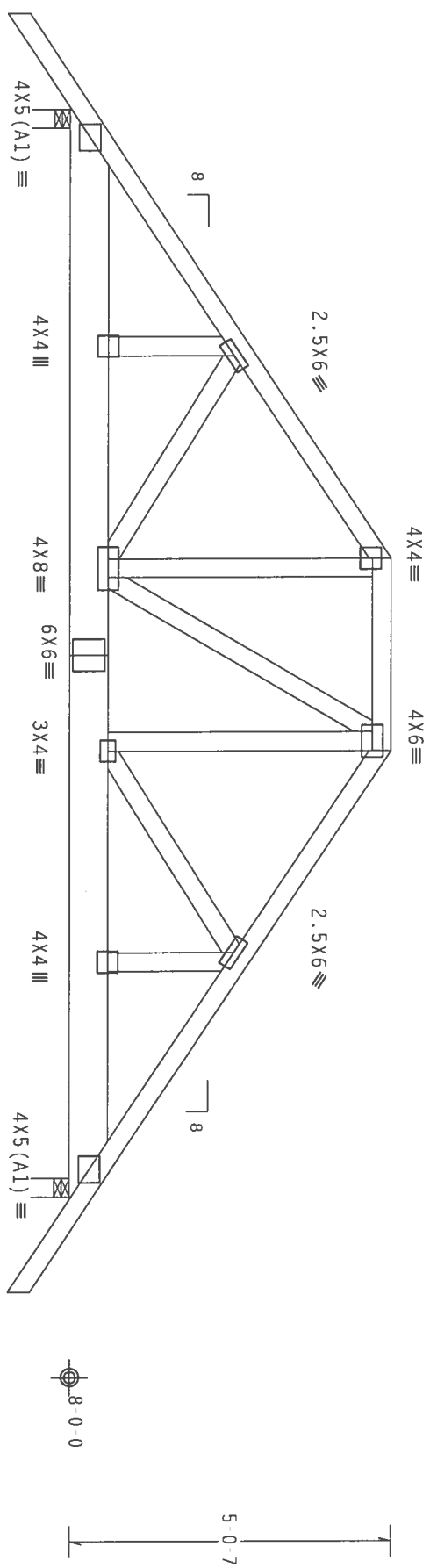
In lieu of structural panels or rigid ceiling use purlins to
brace TC @ 24" OC, BC @ 24" OC.

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 18.50
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 17.00
BC - 291 LB Conc. Load at 3.06
BC - 907 LB Conc. Load at 4.94

Provide connection for concentrated load(s) shown.



PLT TYP. Wave

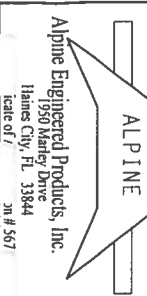
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.24.12

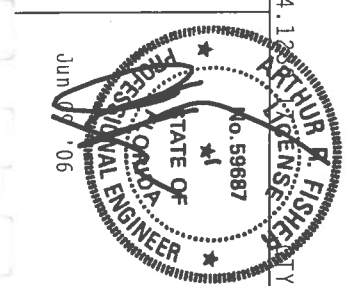
Scale = .375"/ft.

WARNING TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO RESISTING (BOLTING) COMPONENT SAFETY INFORMATION. TRUSS CONSTRUCTION BY TPI (TRUSS PLATE INSTITUTE, 503
HARRISON AVE, SUITE 100, HARRISON, NJ 07033) AND MEMBERSHIP IN THE TRUSS ASSOCIATION OF AMERICA (TAA), 1000
THE 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
DESIGN CONFORMS WITH THE 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 20/18/16GA (W/H/S/X) ASTM A653 GRADE 40/50 (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 ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
Haines City, FL 33844
Phone: 888-357-3572



TC LL	20.0 PSF	REF R487--	96015
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW HCUR487	06160119
BC LL	0.0 PSF	HC-ENG TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	108799
DUR.FAC.	1.25		
CDG'ING	see above	DRFF-15XX487	Z03

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

TC	From	64 PLF at 1.50 to	64 PLF at 17.00
BC	From	5 PLF at 1.50 to	5 PLF at 0.00
BC	From	20 PLF at 0.00 to	20 PLF at 17.00
BC	2966 LB Conc.	load at 7.06	
RC	1130 LB Conc.	load at 9.06,	11.06,
RC	1138 LB Conc.	load at 15.06	13.06

Provide connection for concentrated load(s) shown



Scale = .3125"/Ft.

WARNING THESE REQUIRE EXHIBIT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SPEC 1.03 (BUILDING COMPONENTS - FABRICATION), HANDBOOK BY TPI (TERRACE PLASTIC INSTITUTE), 503 D. JORDAN RD., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS CONSULT) OF AMERICA, 6200 ENTERPRISE BLVD., MADISON, WI 53719, FOR SAFETY PRECAUTIONS PRIOR TO RETURNING 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 NDS (NATIONAL DESIGN SPEC., BY AITPA) AND IPL. 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 TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z
ANY INTERSECTION OF PLATES FOLLOWED BY (A) SHALL BE OBSERVED AS OF THIS 2002 ETC 2 A SEAL ON THIS

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

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

DESIGN SHOWN. THE SOLICITANT AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/AP1 1 SEC. 2.

[illegible]

ALPINE
Engineered Products, Inc.
 1950 Marler Drive
 Haines City, FL 33844
 Telex or Fax # 567
 In # 567

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

10P Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.

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

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

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

TC LL	20.0 PSF	REF	R487-- 96016
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160120
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	108808
DUR.FAC.	1.25		
SPACING	see above	URFF -	1SXX487 Z03

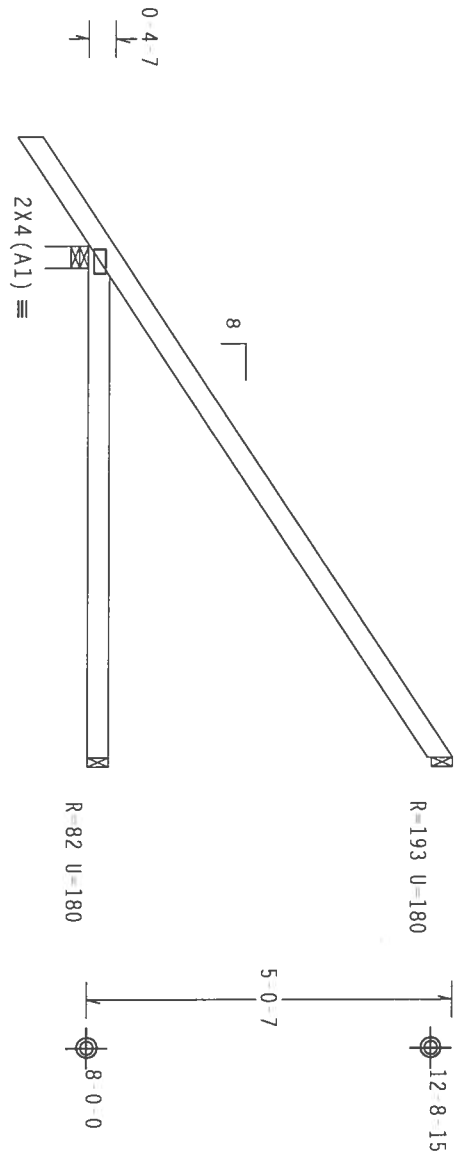
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

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

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

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



PLT TYP. Wave

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

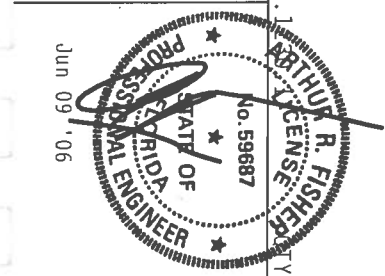
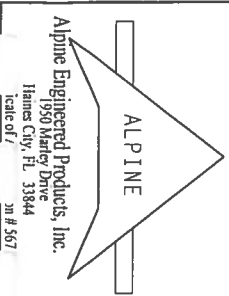
7.24.1

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGNS FOR BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 580 HANSON BLVD, SUITE 200, FARMINGTON, CT 06030) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BL, HANSON BLVD, SUITE 200, FARMINGTON, CT 06030). 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 FOLLOW THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF ADOPTED DESIGN SPEC. BY ADEPA AND TPI. APPLY CONNECTION 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 ANNEA 3.3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487--	96017
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160046
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	107729
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SXX487 203

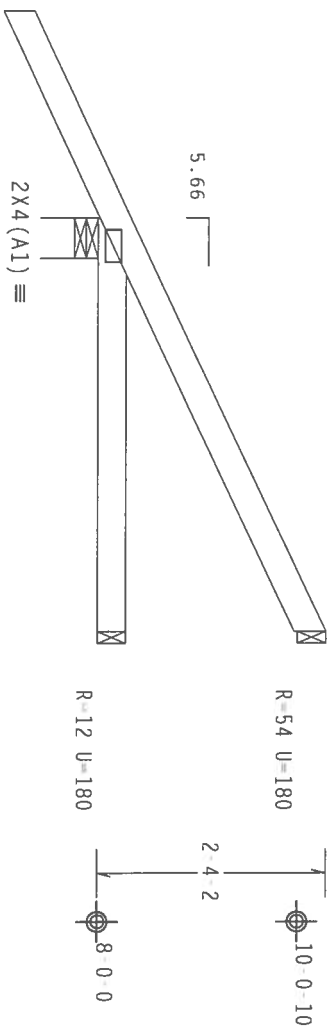
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

Hipjack supports 3-0-0 setback jacks with no webs.

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


$$\overleftrightarrow{2-1-7}$$

← 4.2.15 Over 3 Supports →
R = 224 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

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

Scale = .5"/Ft.

*WARNING--SOME PRICES INCLUDING EXPIRING CARET IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRIPPING REFER TO MCS-1 OR BUILDING COMPONENT SAFETY INFORMATION). QUALIFIED BY TPI (THOUSAND STATE INSTITUTE), 503 O'CONNOR DRIVE, SUITE 200, MADISON, WI 53719, AND WICA (WOOD PRESERVATION COUNCIL) OF AMERICA, 6300 ENTERPRISE LANE, 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 CHORD CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH P1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. ALPINE

PLATES TO EACH FACT OF BRUS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWING 1604-2 CONNECTION FACTORS: MOD. OF 20/10/1500 (W, N/3/K) ASIN 4055 GRADE 40/80 (N, K/H,5) GALV. STEEL. APPLY

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

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

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

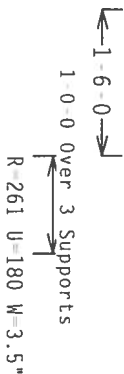
BUILDING DESIGNER PER ANSI/1P1 1 SEC. 2.

THE

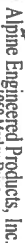
FL/-4/-/R-		Scale=.5"/ft.
TC LL	20.0 PSF	REF R487- 96018
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUSR487 06160116
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 108436
DUR.FAC.	1.25	
SPACING SFF ABOVE		JRFF- 1SX487 203

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, 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.



Scale = .5"/ft.



REF	R487 - -	96020
DATE	06/09/06	
DRW	HCUSR487	06160121
HC-ENG	TCE/AF	
SEQN -	108415	
JRFF -	1SXXA97	Z03

Webs 2x4 SP #3

```
Stack Chord SCI 2x4 SP #2 Dense:
```

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord

interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

(**) I 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.

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.



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

[illegible]

****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 THIS OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR OTHER COMPONENTS WITH THE TRUSS SHALL BE THE RESPONSIBILITY OF THE USER.

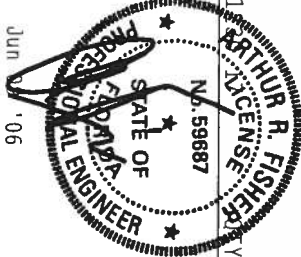
DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI CONNECTOR PLATES ARE MADE OF 304 STAINLESS STEEL.

CONCRETE PLATES SHALL BE MADE OF 20/20/20 (M./M./M.) ASH 40/60 (M./M./M.) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSSES 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 TPI11 2002 SEC. 3. A SEAL ON THIS

Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844

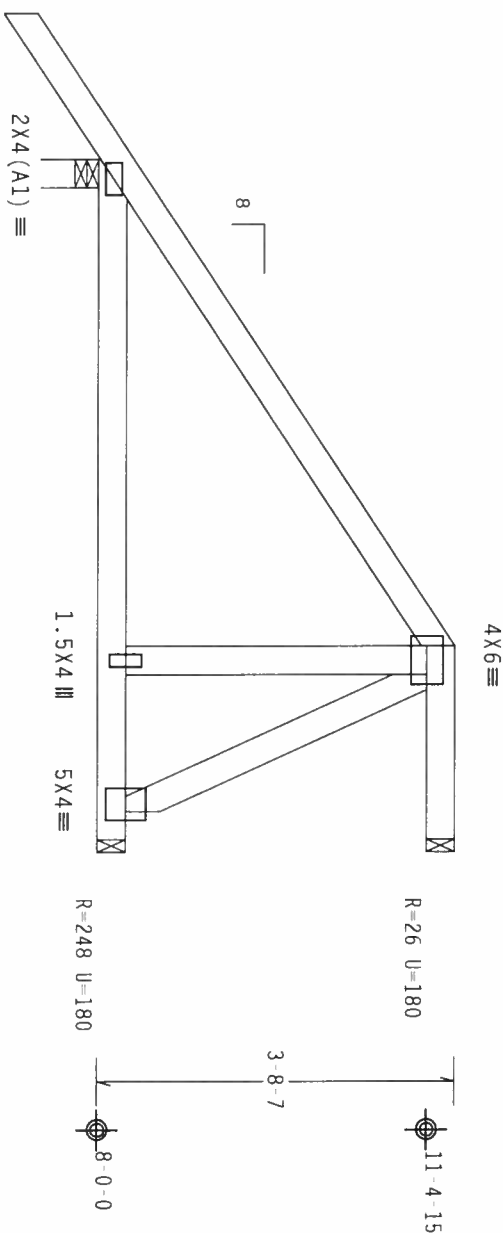
Scale of / ID # 567



1 FL / 4 / - / - / R / -		Scale = .5" / Ft.	
TC LL	20.0 PSF	REF	R487 - 96021
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCSUR487 06160123
BC LL	0.0 PSF	HC-ENG	TCE / AF
TOT. LD.	40.0 PSF	SEQN -	78731 REV
DUR. FAC.	1.25		
CDACJING	24.0"	JRFF -	1SXX487 Z03

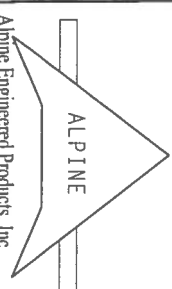
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

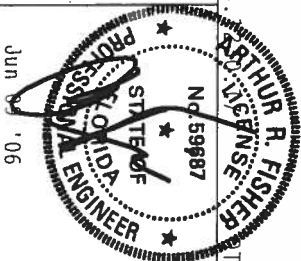


Scale = .5"/Ft.

DRAWING INDICATE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487 - - 96022
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCSUR487 06160093
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN -	108510
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SXX487 Z03

SPADJING 24.0" JRRF-1SXXΔR7 Z03

Webs 2x4 SP #3

See DWGS A11015EE0405 & GBLETTIN0405 for more requirements.

Stacked top chord must NOT be notched or cut in area (NN1).
Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

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

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

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



Scale = .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: ANY FAILURE TRUFS IN CONFORMANCE WITH IPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AIAA) AND FPL

CONNECTOR PLATES ARE MADE OF 20/18/16GA (M, H, S/K) AS1H A653 GRADE 40/60 (M, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z

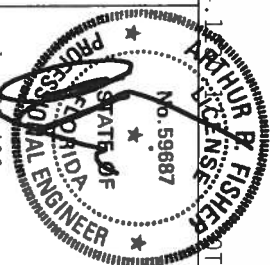
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPII 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/FP1 1 SEC. 2.

175



icalco / in # 20 /

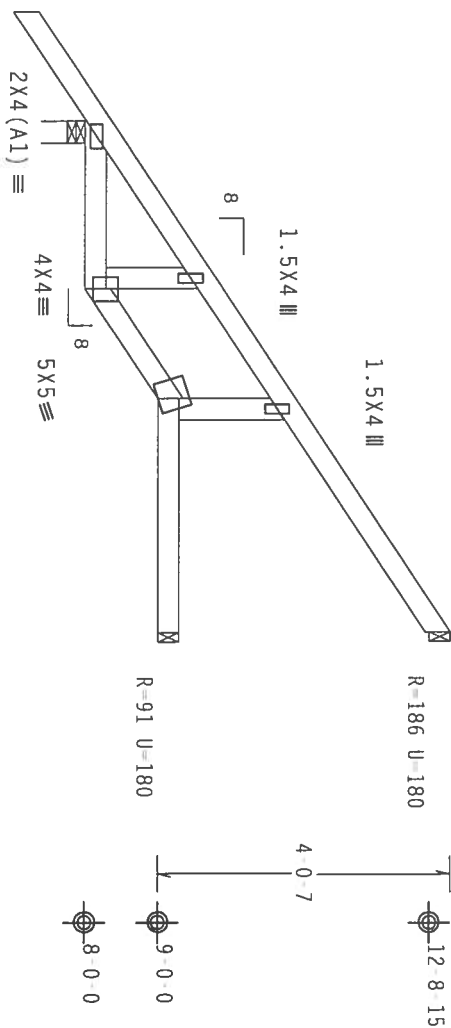
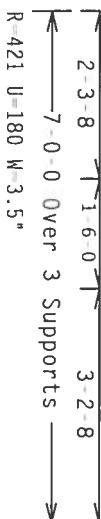


FL/-4/-/-/R/-	Scale=.5"/Ft.	
TC LL	20.0 PSF	REF R487 - 96023
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUSR487 06160124
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 78728 REV
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- ISXXR47 Z03

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

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

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


$$\sqrt{1.60}$$


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

7.24.12

Scale = .375"/Ft.

WARNING * * APPLICANTS REQUIRE EXPLICIT CARE IN SAFETY INFORMATION, HANDLING, SHIPPING, INSTALLING AND DRAGING. REFER TO ACS-1 (4) (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSS-PLAST INSTITUT), 563 O'DONN RD., SUITE 200, MADISON, WI 53719, AND VICA (VEHICLE TROSS 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 PANTS 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 IPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

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

CONNECTOR PLATES ARE MADE OF 20/10/16GA (H, H/S/K) ASTM A653 GRADE 40/60 (H, K/H.5) GALV. S


PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING INFORMATION OF A TRUSS SHALL BE AS SHOWN ON THIS DESIGN.

ANY INSPECTION OF PLATE FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF P11-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE DESIGN ENGINEER. THE EMPLOYER AND THE USER OF THE CONSTRUCTION SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.

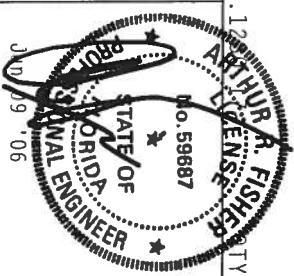
DESIGN SHOW: THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE ARCHITECT.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 7.

[illegible]

Alpine Engineered Products, Inc.

1930 Marney Drive
Haines City, FL 33844
Scale of 1 in #567



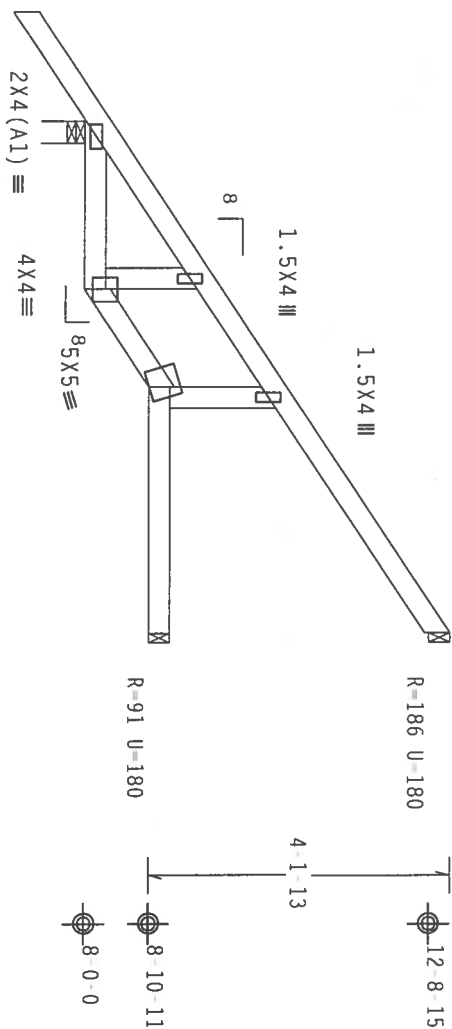
FL/-/4/-/-/R/-		Scale = 375"/Ft.
TC LL	20.0 PSF	REF R487 - 96024
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCURS487 06160103
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 108561
DUR.FAC.	1.25	
SPACING	24.0"	JRFF - 1SXX487 203

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, 8C @ 24" OC.

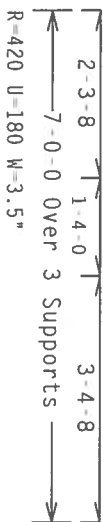
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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.



LE 1-6-07



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.

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

Scale = .375"/Ft.

WARNING: THESE TRUSS REQUIRE EXPERIENT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DECT 1.03 (BUILDING COMPETENT SAFETY INFORMATION), HANDBOOK BY TPI (TRUSS-PLATING INSTITUTE, 503 O'DONORHO RD., SUITE 200, MADISON, WI 53719) AND MECA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD, MADISON, WI 53719) FOR SAFETY PRACTICES RELATION TO MECHANICAL JOINTS FUNCTIONS. THESE OTHERS INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

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

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI. ALPHINE
CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI. ALPHINE
PLATES TO EACH FACE OF BEAMS AND THREE DISTRIBUTED CONNECTIONS ON THE DESIGN POSITION ARE PROVIDED. LEGA 2

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLEY FOR THE TRUSS COMPONENT
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMNEX A3 OF 1971-2002 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 PER ANSI/TPI 1 SEC. 2.



ALPINE
Engineered Products, Inc.
1950 Meyer Drive
Haines City, FL 33844
Circle 7

IMPORTANT PARTIAL A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR - ALPINE ENGINEERING PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN - ANY FAILURE TO BUILD THE IRUSS IN CONFORMANCE WITH TPI - OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE RIVETS ON EACH END OF MOD 7016/FIBER (W/L/SIZE), ASTM A563 GRADE 40/60 (4, K/H, S) GALV. STEEL. APPLY PLATE TO EACH END OF MOD 7016/FIBER (W/L/SIZE), ASTM A563 GRADE 40/60 (4, K/H, S) GALV. STEEL. PER DRAWINGS. IRUSS INSPECTION OF WELDS FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI 2002-2003 PER DRAWINGS. IRUSS DESIGN SIGNAL, THE ACCEPTABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

A circular professional engineer seal for Arthur R. Fisher, State of Florida, No. 59887. The seal features the text "ARTHUR R. FISHER" at the top, "STATE OF FLORIDA" in the center, and "PROFESSIONAL ENGINEER" at the bottom. A star is positioned above the word "STATE". The seal is stamped over a date stamp that reads "JUN 9 1906".

TC LL	20.0 PSF	REF	R487-- 96025
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160104
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	108566
DUR.FAC.	1.25		
CRACKING	"24.0"	JRFF-	1SXx487 203

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

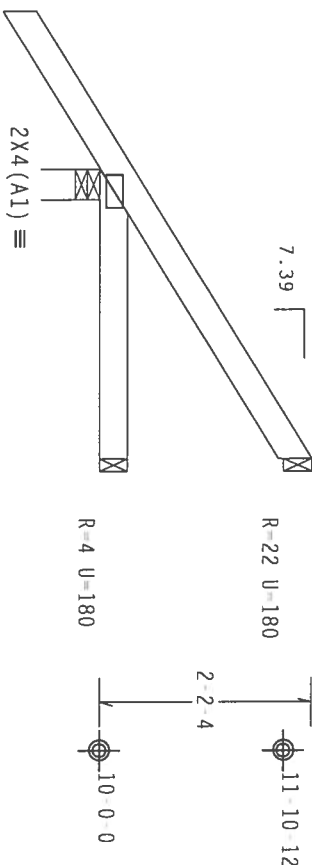
In lieu of structural panels or rigid ceiling use purlins to brace TC
@ 24" OC, BC @ 24" OC.

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

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

Hipjack supports 2-1-4 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.



1-7-8

2-11-12
2-11-12 Over 3 Supports
R-123 U-180 W=3.788"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.13

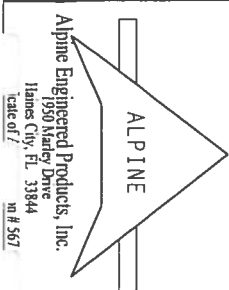
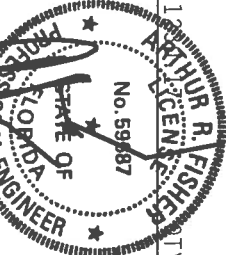
QTY:1 FL/-/4/-/R/-

Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BEING 1.03 (INCLUDING COMPONENT SAFETY INFORMATION). PROVIDED BY TPI TRUSS PLATE INSTITUTE. 563
INSTRUCTIONS TO THE USER, PROVISION, INSTRUCTIONS AND CHECK (GOOD TRUSS CONNECTIONS, CHECK FOR PROPER
INSTALLATION OF 1.03 (INCLUDING COMPONENT SAFETY INFORMATION). PROVIDED BY TPI TRUSS PLATE INSTITUTE. 563
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED
RIGID CEILING.

****IMPORTANT**** TURN IN 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/AI) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W-H/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 160A, 2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE 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--	96026
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW HCUR487	06160125
BC LL	0.0 PSF	HC-ENG TCE/AF	
TOT.LD.	40.0 PSF	SEON-	108596
DUR.FAC.	1.25		
COATING	SEE ABOVE	JRFF-1SXX	487 203

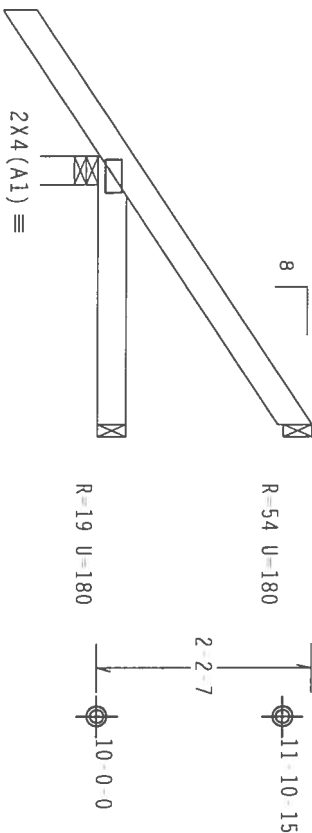
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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 →

0'-4'-14" 2'-4-2"
2'-9-0" Over 3 Supports
R=261 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

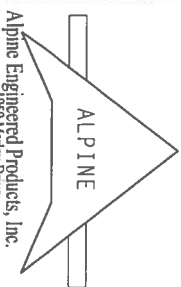
7.24.1

FL/-4/-/R/-

Scale = 5"/ft.

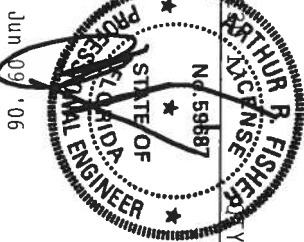
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO DESIGN FOR DETAILING REQUIREMENTS. SAFETY IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
DO NOT EXCEED THE MAXIMUM TRUSS CHORDS OR MEMBER LENGTHS. THE TRUSS CHORDS OR MEMBER LENGTHS INDICATED
HARSHEN AT 53/129 FOR SAFETY PRACTICES. THE TRUSS CHORDS OR MEMBER LENGTHS 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 CONTAINS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI- APPLICABLE
CONNECTIONS ARE MADE OF 20/18/16GA (4.4/4.5/4.6) ASH A663 GRADE 40/60 (4.4/4.5/4.6) 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 AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES THE 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 AMES/TPI 1 SEC. 2.



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

cat#A n#567



TC LL	20.0 PSF	REF R487 -	96027
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW HCUSR487	06160126
BC LL	0.0 PSF	HC-ENG TCE/AF	*
TOT.LD.	40.0 PSF	SEQN-	108590
DUR.FAC.	1.25		
SPACING	24.0"	JRFE-1SXXA07	Z03

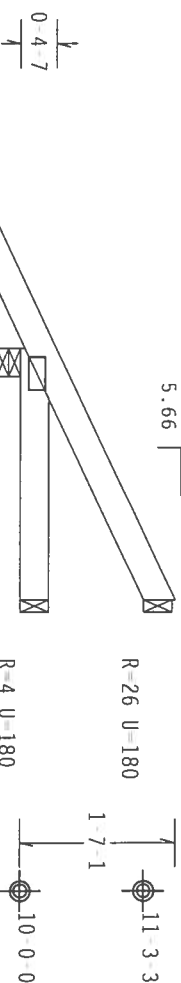
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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.



2-1-7

2-7-0
2-7-0 over 3 Supports
R=323 U=180 W=3.45"

PLT TYP. Wave

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

7.24

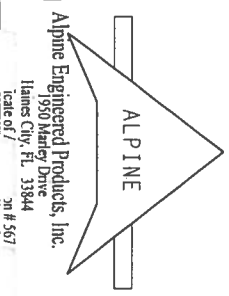
QTY:1

FL/-/4/-/R/-

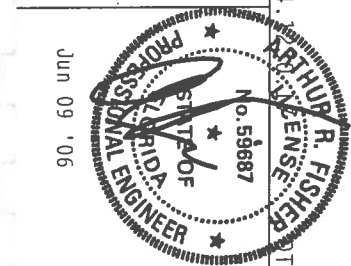
Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (INCLUDING COMPONENT SAFETY INFORMATION). PROHIBITED BY TPI (TRUSS PLATE INSTITUTE). HAS LIMITED LIABILITY. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&AF) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (M./H./S.) ASTM A653 GRADE 40/60 (M./K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.



ALPINE ENGINEERED PRODUCTS, INC.
1950 Meyer Drive
Lanham, MD 20646
Scale of: 1/8" = 1'-0"



TC LL	20.0 PSF	REF R487	96028
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCSR487 06160127
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	108601
DUR.FAC.	1.25		
COVERING	24.0"		

JRFF-1SXX/07 203

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP 8, 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.



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

7.24.13 ARTHUR J. FISHER
LICENSE
QTY:1 FL/-/4/-/-/R/-

Scale = .5"/Ft.

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

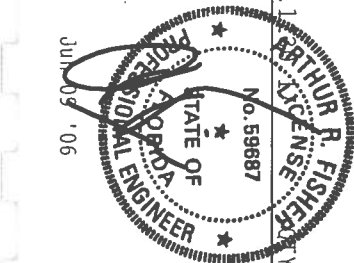
TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACI

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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 DRAWING INDICATED. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE CROSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487 -- 96029
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUSR487 06160128
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 108613
DUR.FAC.	1.25	
SPACING	24.0"	JRFF - 1SXX487 Z03

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

Conc.	Load at	2.01
19 LB	From 63 PLF at 1.63 to 63 PLF at 2.91	
1C	From 63 PLF at 1.63 to 5 PLF at 2.91	
BC	From 20 PLF at 0.00 to 20 PLF at 2.91	
BC	From 20 PLF at 0.00 to 20 PLF at 2.91	
BC	From 20 PLF at 0.00 to 20 PLF at 2.91	

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.

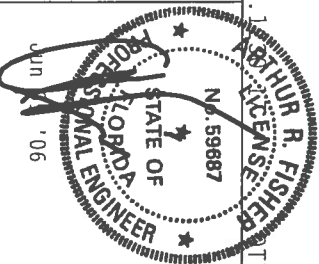
Provide (2) 16d common nails (0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails (0.162"x3.5"), toe nailed at Bot chord.



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

Scale of / m # 567

nn # 567



JRFF- 1SXX^A7 Z03

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, 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.

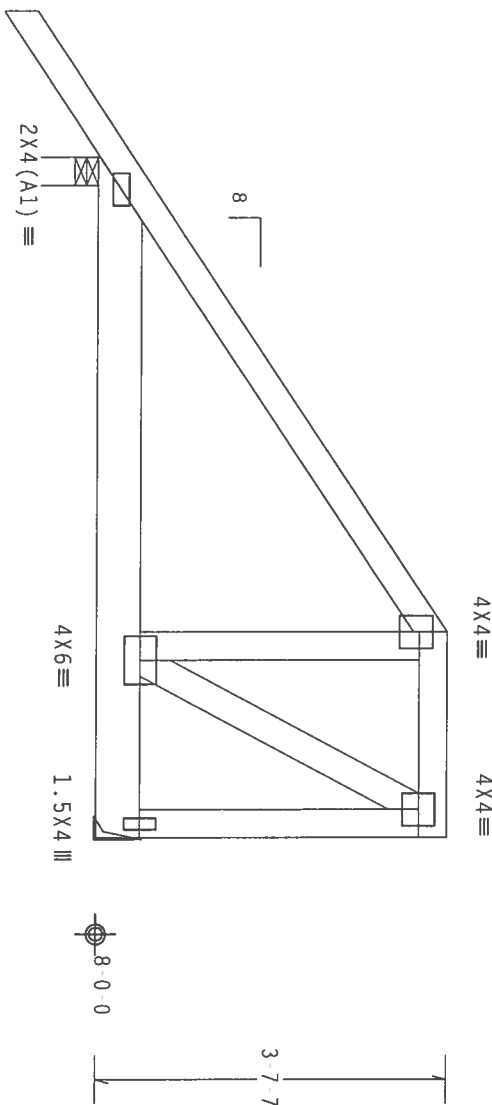
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 7.00
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
BC - 495 LB Conc. Load at 1.06, 3.06, 5.06

Right end vertical not exposed to wind pressure.

Provide connection for concentrated load(s) shown.



1-6-0
4-10-8
2-1-8
7-0-0 Over 2 Supports
R=1271 U=180 W=3.5"
R=907 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 = 5"/ft.

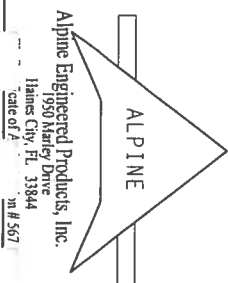
WARNING TRUSSES ARE OF EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TPI-2002(STD) FOR DIMENSIONS AND TOLERANCES. THE TPI-2002(STD) IS A DESIGN STANDARD AND NOT A CONSTRUCTION STANDARD. THE TPI-2002(STD) IS A DESIGN STANDARD AND NOT A CONSTRUCTION STANDARD. THE TPI-2002(STD) IS A DESIGN STANDARD AND NOT A CONSTRUCTION STANDARD.

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

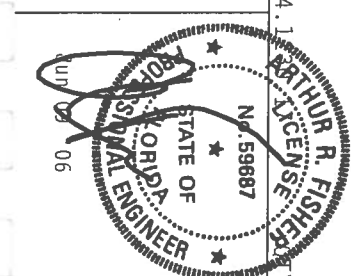
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DECAYATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH THE TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH THE TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH THE TPI-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANNEX A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANNEX A3 OF TPI-2002 SEC. 3.



Alpine Engineered Products, Inc.
1990 Marley Drive
Haines City, FL 33844
Date of A: 06/09/06
In #567



TC LL	20.0 PSF	REF	R487 - 96033
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160115
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	108465
DUR.FAC.	1.25		

DRWG. FOR ABOVE
JRF - 15XXA97 203

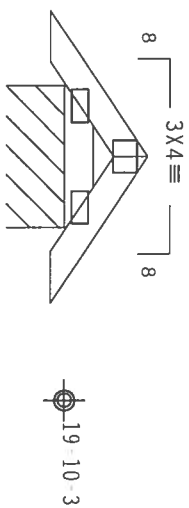
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

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

110 mph wind, 20.20 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=1.2 psf.

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



2x4(A1) ≡ 2x4(A1) ≡
10-9 5 10-9 5
0-8-110 8-11

1-5-6 Over Continuous Support
R-113 PLF U-124 PLF W-1-5-6

PLT TYP. Wave

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

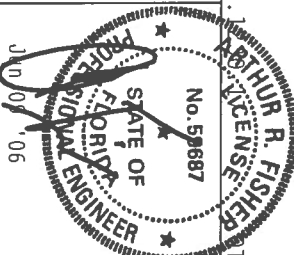
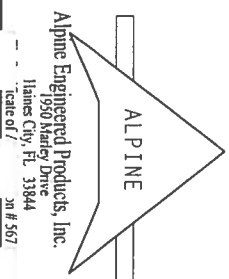
7.24.11

Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.
DESIGNER TO DESIGN TO FOLLOWING COMPANY SAFETY IN OPERATION: PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503
DIXON RD, SUITE 100, FARMINGTON, CT 06030) AND/OR AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE, 1801 LEE
HIGHWAY, FORT MYERS, FL 33901) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE
NOTED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED
RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE
ENGINEERED PRODUCTS, INC. IS AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER. 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) 100A-2. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 100A-2.



TC LL	20.0 PSF	REF R487-- 96034
TC DL	10.0 PSF	DATE 06/09/06
BC DL	2.0 PSF	DRW HCUSR487 06160137
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	32.0 PSF	SEQN- 15216 REV
DUR.FAC.	1.25	
COATING	24.0"	JRFF- 1SXXAR7 203

2 COMPLETE TRUSSES REQUIRED

Na11ing Schedule: (12d_Common_(0.148"x3.25",_m1n.)_na11s)
 Top Chord: 1 Row @12.00" o.c.
 Bot Chord: 2 Rows @5.50" o.c. (Each Row)

```

Mebs      : 1 Row @ 4" O.C.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

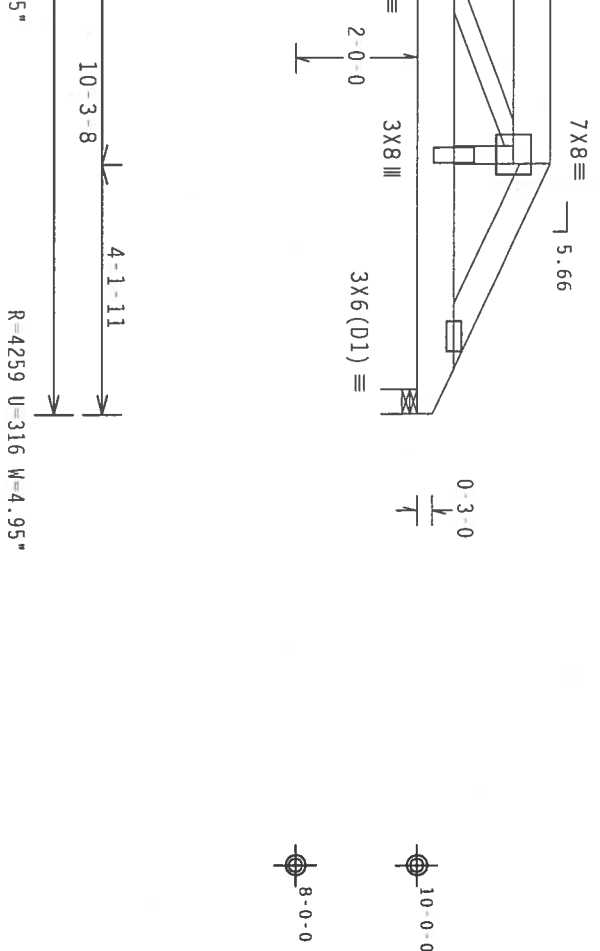
Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails
BRG   X-LOC   #BLOCKS   LENGTH/BLK   #NAILS/BLK   WALL PLATE
2     10.0x2.  1         12"         4             Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.

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

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

```

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



Scale = .3125" / Ft.

TC LL 20.0
TC DL 10.0
RC DL 10.0

ENGINEERED

[illegible]

101:LD: 40:0

S	COMPONENT	DUR.	FAC.
00		1.25	

COMPACTING can abor

ONTARIO
ON

Scale = .3125"/ft.
REF R487 - 96035
DATE 06/09/06
DDRM HCUR487 0616013
HC-ENG TCE/AF
SEQN- 108835
REF- 1SXAR7 Z03

REF	R487--	96035
DATE	06/09/06	
DRW	HCSUR487	06160133
HHC - ENG	TCE/AF	
SEQN -	108835	
JRFF -	1SXXR47	Z03

(**) 2 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.

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.



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

PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DETAIL FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR ANY OTHER WORKMANSHIP DEFECTS, SHALL BE THE SOLE RESPONSIBILITY OF THE USER.

PLATES TO EACH FACT OF BRASS AND WURST OUFHEIMST GRATED ON THIS DESIGN POSITION PIR DRAWINGS 1604 2

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

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.

Figure 1

JREF - 15XX487_Z03

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

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

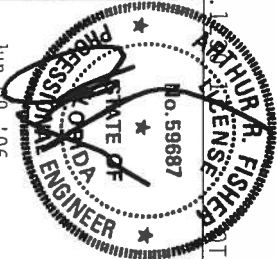
QTY:1 FL/-/4/-/-/R/-

Scale = .375"/Ft.

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

Alpine Engineered Products, Inc.

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



FL/-/4/-/-/R/-		Scale=.375"/ft.
TC LL	20.0 PSF	REF R487 - 96037
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUR487 06160114
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 108471
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SXX487_Z03

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

:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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.

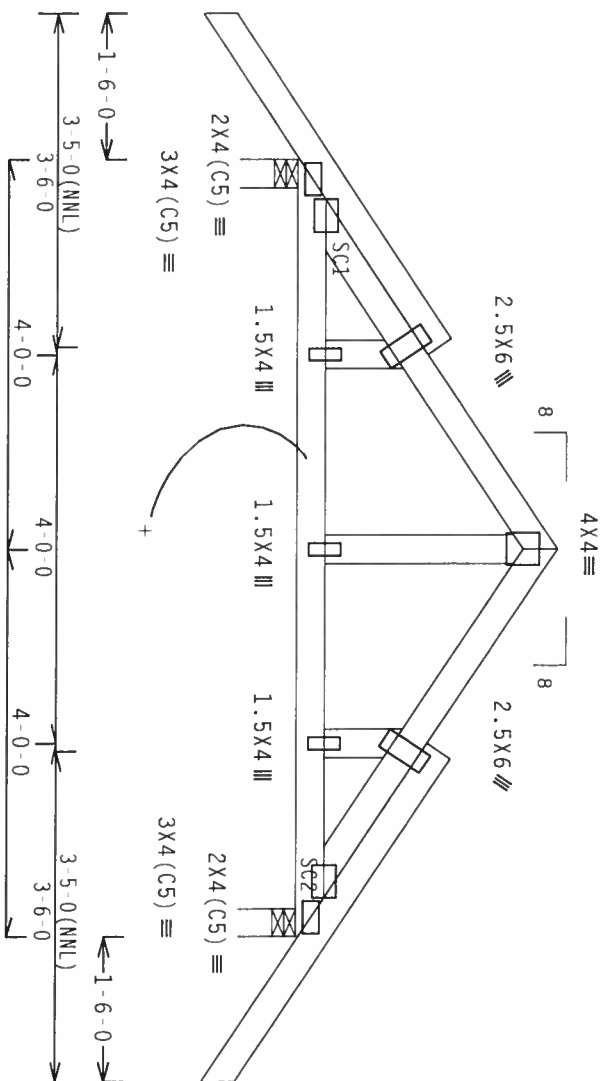
+ Member to be laterally braced for horizontal wind loads.
Bracing system to be designed and furnished by others.

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.

Gable end supports 8" max rake overhang.

Stacked top chord must NOT be notched or cut in area (NML).
Dropped top chord braced at 24" o.c. intervals. Attach stacked
top chord (SC) to dropped top chord in notchable area using 3x4
tie-plates 24" o.c. Center plate on stacked/dropped chord
interface, plate length perpendicular to chord length. Splice top
chord in notchable area using 3x6.

The Building Designer is responsible for the design of the
roof and ceiling diaphragms, gable end shear walls, and
supporting shear walls. Shear walls must provide continuous
lateral restraint to the gable end. All connections to be
designed by the Building Designer.



R=439 U=180 W=3.5"

PLT TYP. Wave

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

7.24.1

FL/-/4/-/R/-

Scale = .5"/ft.

WARNING TRUSSES ROUTINE EXTERIOR TRUSS FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
BEFORE DESIGN TO (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 500
DUNBAR RD., SUITE 100, FARMINGTON, CT 06030-1000) TO BE USED IN CONSTRUCTION OF TRUSSES. THE TRUSS
MANUFACTURER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED
RIGID CEILING.

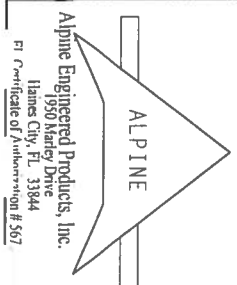
IMPORTANT TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI: APPLICABLE
CONNECTION PLATES ARE MADE OF 20/18/16GA (4/11/5/2) ASTM A653 GRADE 40/60 (4/11/5) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BUILDING DESIGNER PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. A SEAL ON THIS

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BUILDING DESIGNER PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. A SEAL ON THIS



Alpine Engineered Products, Inc.
James City, FL 33844
F1 Certificate of Authorization #502

TC LL	20.0 PSF	REF R487 - 96038
TC DL	10.0 PSF	DATE 06/09/06
BC DL	10.0 PSF	DRW HCUSR487 06160134
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 108549
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SXX487_203

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.

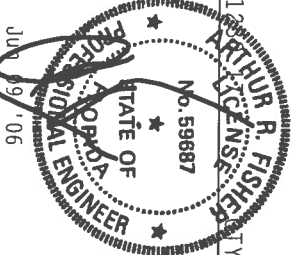


Scale = .5"/Ft.

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

Alpine Engineered Products, Inc.

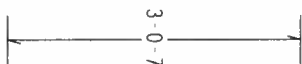
Ilaines City, FL 33844
FL Certificate of Authorization # 567



FL/-4/-/-R/-		Scale =.5"/Ft.	
TC LL	20.0 PSF	REF	R487 - 96039
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HGUSH487 06160135
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	108523
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SX487_Z03

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.

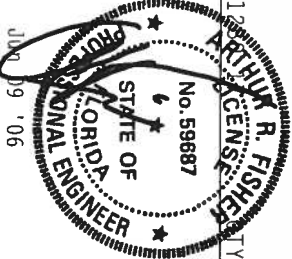


Scale = .5" / ft.

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

Alpine Engineered Products, Inc.

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



TC LL	20.0 PSF	REF	R487 - 96040
TC DL	10.0 PSF	DATE	06/09/06
BC DL	10.0 PSF	DRW	HCUSR487 06160136
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN -	108541
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1SXX487_Z03

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

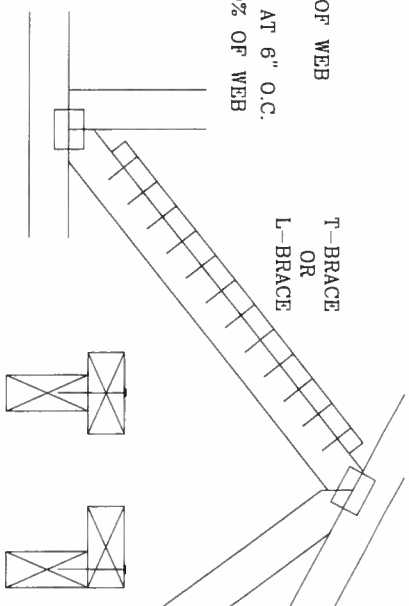
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

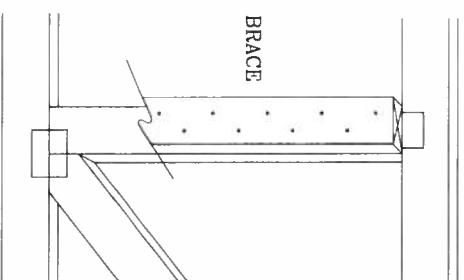
T-BRACING
OR
L-BRACING:

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



SCAB BRACING:

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

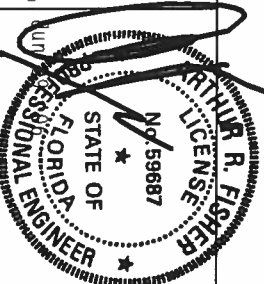


THIS DRAWING REPLACES DRAWING 579.640

ALPINE

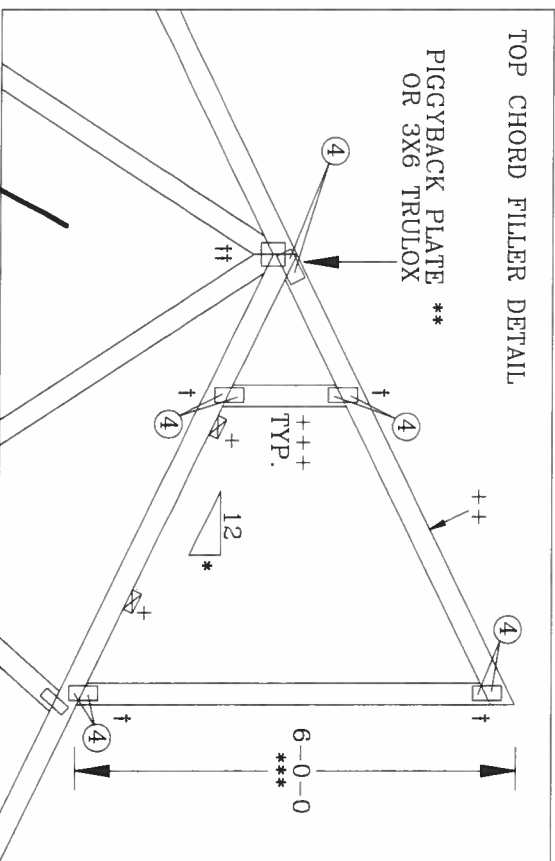
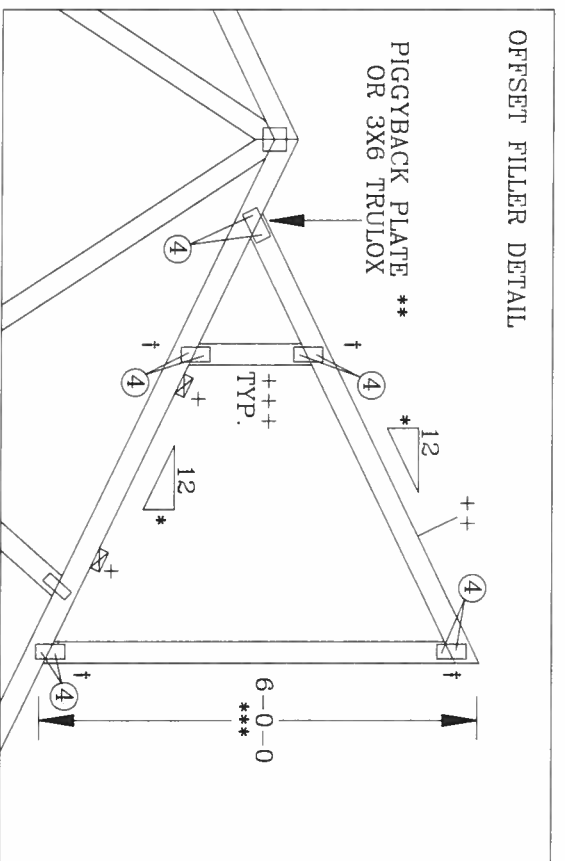
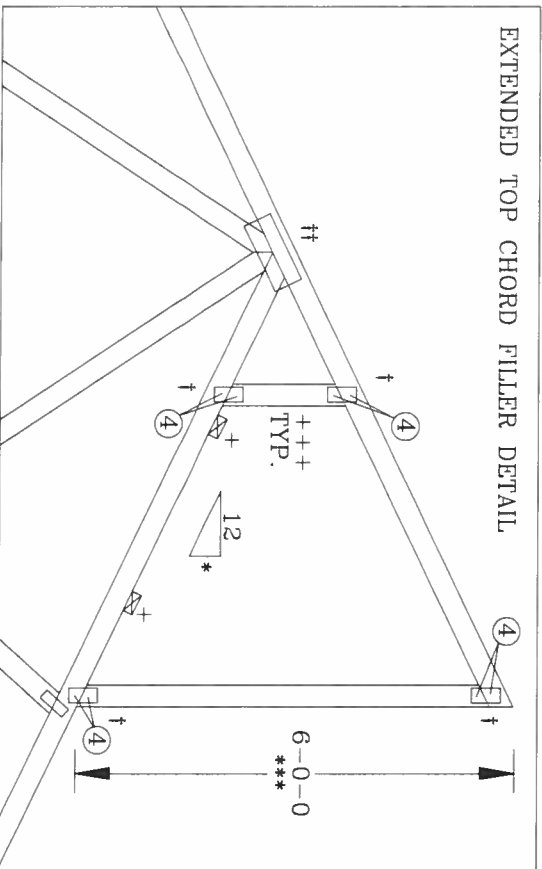
ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

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 PRODUCTIONS, INC.), 6300, ENTERPRISE AVENUE, SUITE 200, DALLAS, TEXAS 75249, (214) 343-7271 FOR TRUSS DESIGN, MANUFACTURING AND INSTALLATION INSTRUCTIONS. 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. FOR WOOD CONSTRUCTION) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) SHALL BE USED. ANY DEVIATION FROM THIS DESIGN, POSITION PER DRAWING 1604-2, ANY INSPECTION INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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



EXTENDED TOP CHORD FILLER DETAIL

TOP CHORD FILLER DETAIL

OFFSET FILLER DETAIL

PIGGYBACK PLATE
OR 3X6 TRULOX

+++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED
48" OC MAXIMUM.
* 8/12 MAXIMUM PITCH.

** 2X8.25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699 FOR PIGGYBACK SPECIAL PLATE INFORMATION.

6'0" MAXIMUM HEIGHT.

† W2X4 OR 3X6 TRULOX.

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

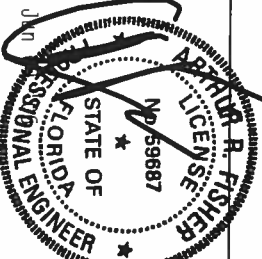
11 GAUGE (0.120")X.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF EACH TRUSS PLY. SEE DWG 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING REFERS TO DESIGN EXTREMELY CASE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSSES REQUIRED FOR THIS PROJECT (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 593 DUNFORD DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

PRODUCTS FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. CONTRACTOR TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR PARTICIPATING, HANDLING, SHIPPING, INSTALLING, & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NCS NATIONAL DESIGN SPEC. (AIA) AND TPI ALPINE CONNECTOR PLATES ARE MADE OF 50/81/664 (VHS/ST) ASTM A653 GRADE 40/60 (VHS/ST) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED OTHERWISE, POSITION PER DRAWINGS 1604-2. AN INSPECTION OF PLATES FOLLOWED BY CD SHALL BE REQUIRED. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO DESIGN SHOWN. THE PROFESSIONAL ENGINEERING RESPONSIBILITY STATEMENT OF THE DESIGNER SHALL SHOW THE UTILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



THIS DRAWING REPLACES DRAWING 884.080

TC LL	MAX 30 PSF	REF	TC-FILLER
TC DL	MAX 15 PSF	DATE	11/26/03
BC DL	MAX 10 PSF	DRWG	TCFILLER103
BC LL	0 PSF	-ENG	SJP/KAR
TOT. LD.	MAX 55 PSF		
DUR. FAC.	1.15 OR 1.33		
SPACING	24.0"		

BOTTOM CHORD FILLER DETAIL

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

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

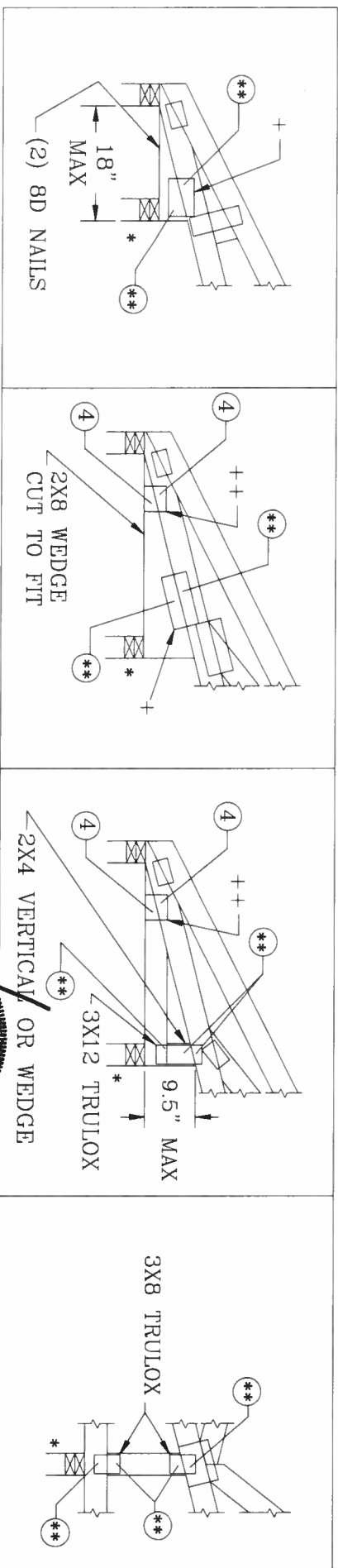
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11 GAUGE (0.120")X1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF THE TRUSS. SEE DWG 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.

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

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

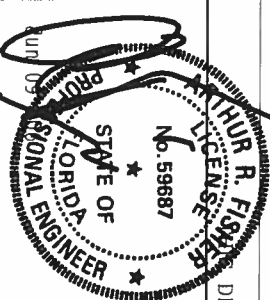
FILLER BOTTOM CHORD OR WEDGE SPECIES	MAXIMUM REACTION		MINIMUM BEARING AREA	** REQUIRED NAILS PER FACE WITH TRULOX PLATES					
	DOWNWARD	UPLIFT		1.00 D.O.L.	1.15 D.O.L.	1.25 D.O.L.	1.33 D.O.L.	1.60 D.O.L.	
DOUGLAS FIR-LARCH	3281#	1656#	1.5" X 3.5"	12	11	10	9	8	
HEM-FIR	2126#	1095#	1.5" X 3.5"	9	8	7	7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



DRAWING REPLACES DRAWINGS A115 A115/R & 884,132

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAN0 BEACH, FLORIDA



TC LL	—	PSF	REF	BC FILLER
TC DL	—	PSF	DATE	11/26/03
BC DL	10.0	PSF	DRWG	BCFILLER103
BC LL	—	PSF	-ENG	DLJ/KAR
TOT. LD.	—	PSF		
DUR. FAC. 1.0/1.15/1.25/1.33				
SPACING 24.0"				

BEARING BLOCK NAIL SPACING DETAIL

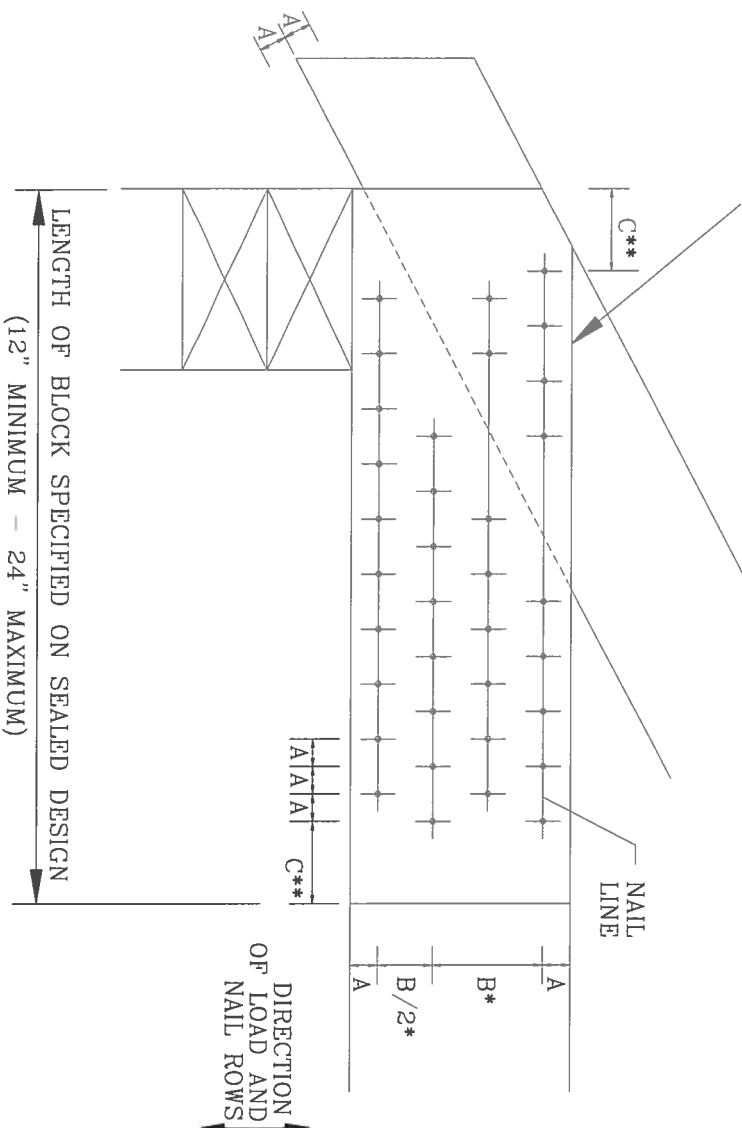
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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"	

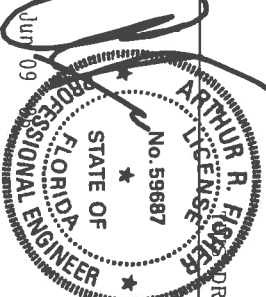
DRAWING REPLACES DRAWING B139 AND CNBRGK0699

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 593 DINDRIFORD DR., SUITE 200, MADISON, VI 53719 AND VICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 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 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/ASD AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (VH/S/2) ASTM A653 GRADE 40/60 (VH/S/2) 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 CD SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2



REF BEARING BLOCK
DATE 11/26/03
DRWG CNBRGK1103
-ENG SJP/KAR

SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH		SOUTHERN PINE	
#3	STUD	#3	STUD
STANDARD		STANDARD	

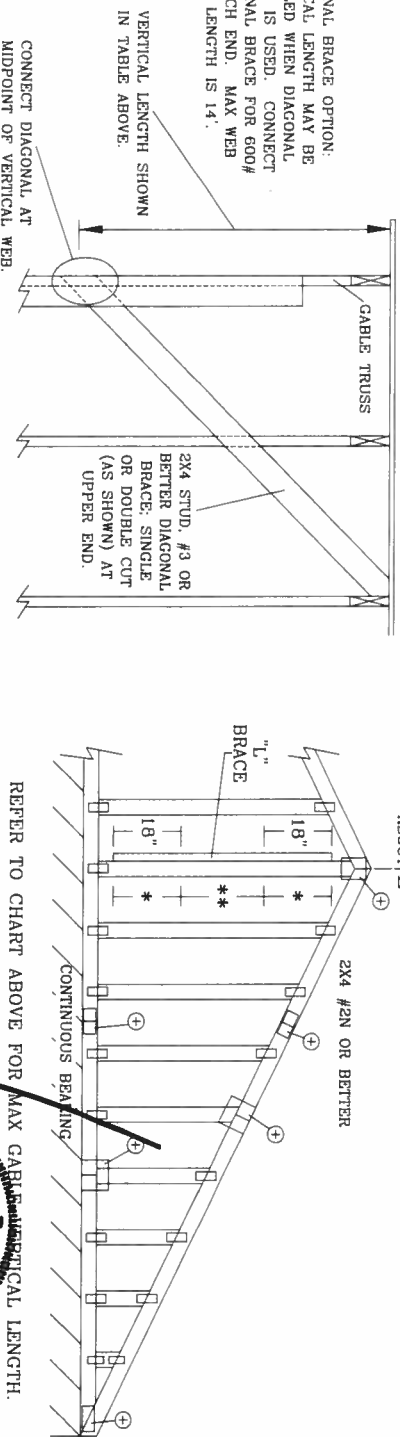
GROUP B:	
HEM-FIR	
#1 & BTR	
#1	
SOUTHERN PINE	
#1	
#2	
DOUGLAS FIR-LARCH	
#1	
#2	

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
 PROVIDE UPLIFT CONNECTIONS FOR 80 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 "J" BRACE WITH 10d NAILS.
 * FOR (1) "J" BRACE: SPACE NAILS AT 2" O.C.
 IN 18" END ZONES AND 4" O.C. BETWEEN ZONES
 ** FOR (2) "J" BRACES: SPACE NAILS AT 3" O.C.
 IN 18" END ZONES AND 6" O.C. BETWEEN ZONES
 "J" BRACING MUST BE A MINIMUM OF 80% OF WEEKLY
 BRACING 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.



REFER TO CHART ABOVE FOR MAX CABLE THEORETICAL LENGTH.

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'.



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

■WARNING■ TRUSSES REQUIRED: EXISTING CAVE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-0-3 BUILDING COMPONENT SAFETY HANDBOOK AND VITCO CRUSS PLATE INSTITUTE, 983 DINDORF RD., SUITE 201 HANSDEN, VA 55729 AND VITCO CRUSS OF AMERICA, 6200 ENTERPRISE LN, HANSDEN, VA 55729 FOR SAFETY PRACTICES PRIOR TO BEGINNING THESE CONDITIONS. PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

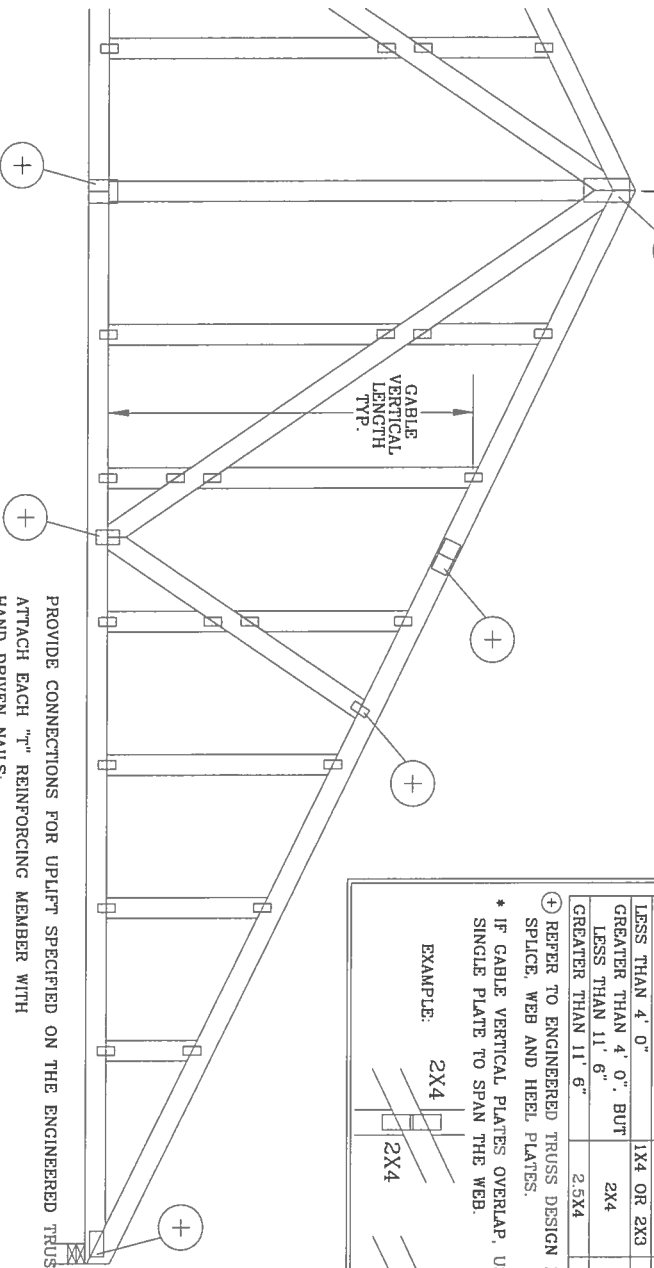
■IMPORTANT■ FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONNECTORS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY A780 AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 C/H/SX/0 A518 A653 GRADE 40/60 C/H/SX GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LATELY BY THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PERFORMED AS OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABLE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER A518/TPI 1 SEC. 2.



REF	ASCET-02-CAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0"	

CABLE DETAIL FOR LET-IN VERTICALS

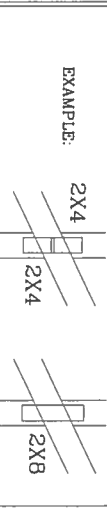
SYM. C.
ABOUT



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

* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

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



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 CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

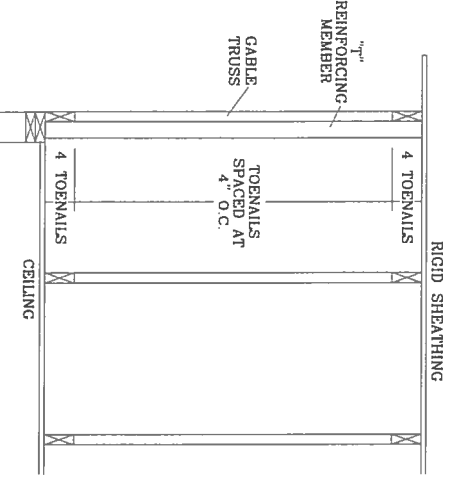
WEB LENGTH INCREASE W/ "T" BRACE

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

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
CABLE 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 CABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.
ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148" X 3.1" MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.
(4) TOENAILS IN TOP AND BOTTOM CHORD.
BD COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS
THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 CABLE DETAIL DRAWINGS
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7-98 CABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A09015EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A09030EC1103
ASCE 7-02 CABLE DETAIL DRAWINGS
A13015ED0405, A12015ED0405, A11015ED0405, A10015ED0405, A09015ED0405
A13030ED0405, A12030ED0405, A11030ED0405, A10030ED0405, A09030ED0405

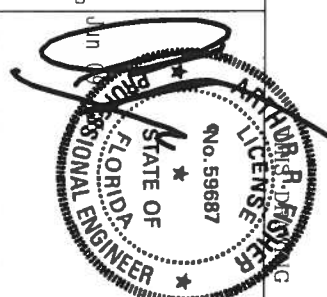
SEE APPROPRIATE ALPINE CABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED CABLE VERTICAL LENGTH.



ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO 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 PLATE INSTITUTE, 583 DOWNSIDE DR., SUITE 200, MADISON, WI 53719) AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE 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 DAMAGE TO OR LOSS OF MATERIALS OR FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALL, BRACING BY AEP&P AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (C/H/S/X) ASTM A653 GRADE 40/60 (C/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PER ANNEK A3 OF TPI 1-2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE DURABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC 2.



MAX TOT. LD. 60 PSF	REF LET-IN VERT	DATE 04/14/05	DRWG GBLTETIN0405
DUR. FAC. ANY			-ENG DLJ/KAR
MAX SPACING 24.0"			

PIGGYBACK DETAIL

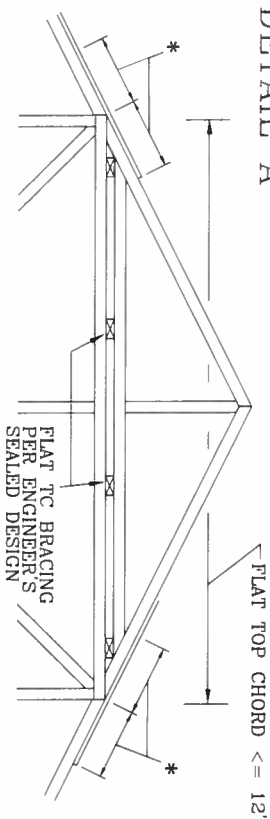
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG,
LOCATED ANYWHERE IN ROOF, CAT II, EXP C,
WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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.

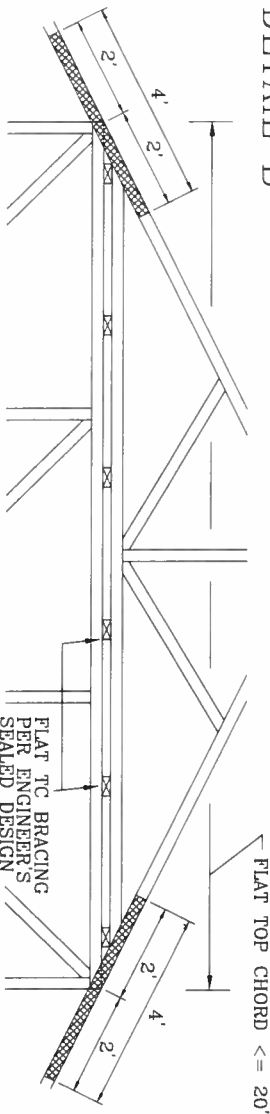
DETAIL A



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

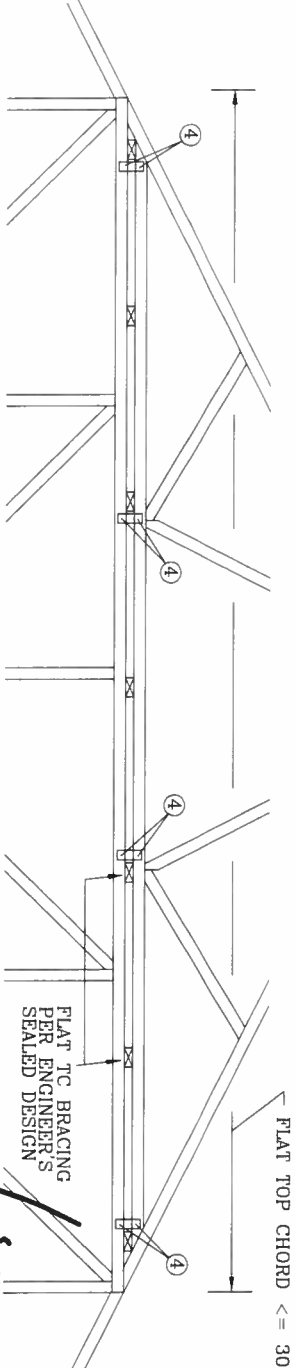
* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5")
OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

DETAIL B



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

DETAIL C



CAP TRUSS TOENAILLED TO TOP CHORD BRACING AND SECURED WITH 3x8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS.
CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 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.

(4) 8d COMMON NAILS (0.131"x2.5")

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

THIS DRAWING REPLACES DRAWINGS 581.670 & 961.860

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

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BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (V/A/S/A) ASTM A653 GRADE
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SUITABILITY AND ADEQUACY OF ANY COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING
DESIGNER. PER ANSI/TPI 1 SEC 2



TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGGYBACK0405
BC LL	PSF	-ENG	DLJ/KAR
TOT. LD.	MAX 60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		

