

# 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:1SY0487-Z0112110430

#24653

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-232--Stanley Crawford Construc Little -- , \*\*  
Truss Count: 38  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.24.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed



Seal Date: 06/12/2006

-Truss Design Engineer-  
James F. Collins Jr.  
Florida License Number: 52212  
1950 Marley Drive  
Haines City, FL 33844

## Notes:

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

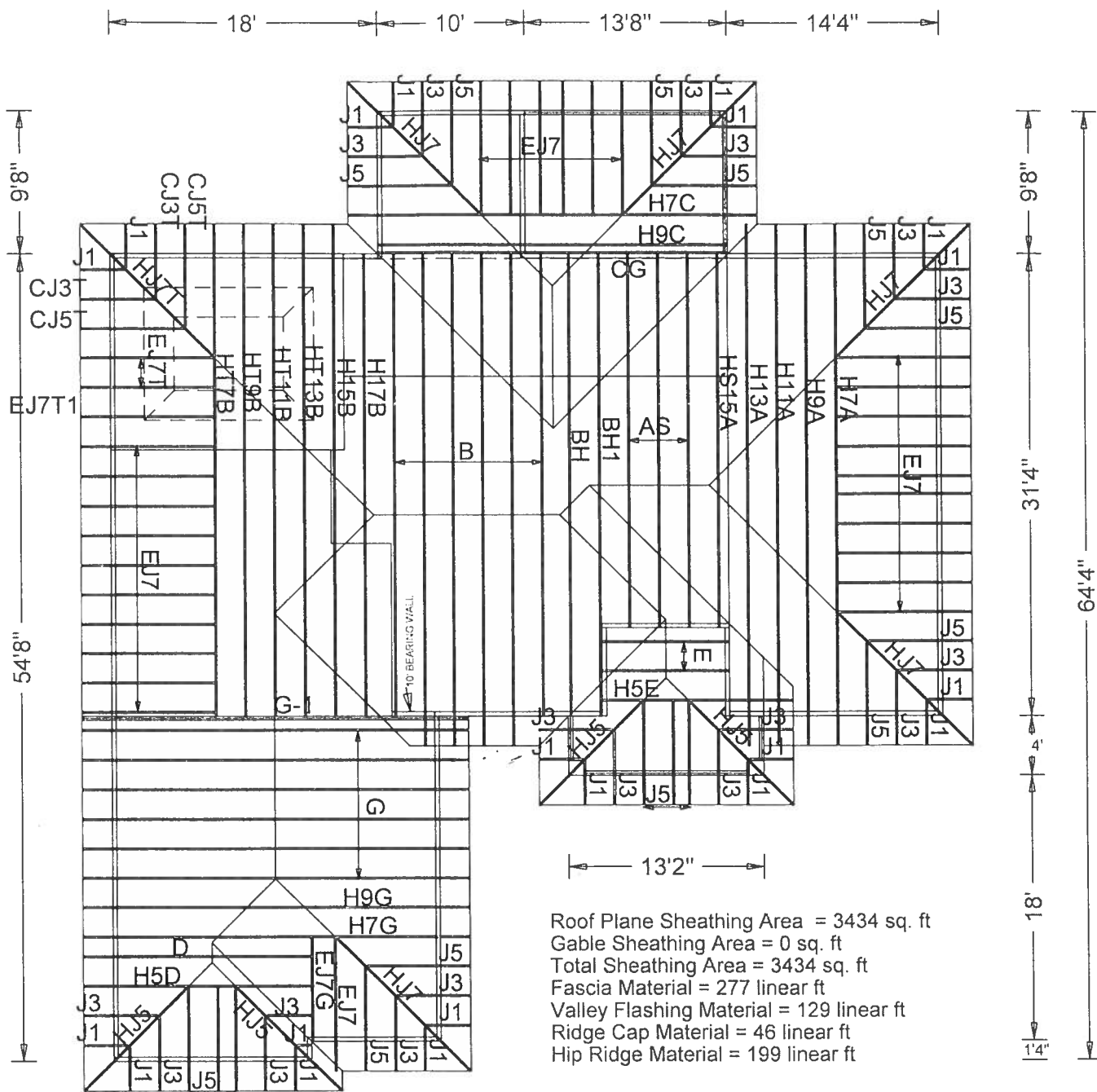
Details: BRCLBSUB-CNBRGBLK-

#	Ref	Description	Drawing#	Date
1	04006--H7A		06163027	06/12/06
2	04007--H9A		06163001	06/12/06
3	04008--H11A		06163002	06/12/06
4	04009--H13A		06163003	06/12/06
5	04010--HS15A		06163004	06/12/06
6	04011--AS		06163005	06/12/06
7	04012--HT7B		06163028	06/12/06
8	04013--HT9B		06163015	06/12/06
9	04014--HT11B		06163016	06/12/06
10	04015--HT13B		06163017	06/12/06
11	04016--H15B		06163018	06/12/06
12	04017--H17B		06163019	06/12/06
13	04018--B		06163020	06/12/06
14	04019--BH		06163006	06/12/06
15	04020--BH1		06163007	06/12/06
16	04021--H7C		06163029	06/12/06
17	04022--H9C		06163021	06/12/06
18	04023--CG		06163030	06/12/06
19	04024--H5D		06163031	06/12/06
20	04025--H5E		06163032	06/12/06
21	04026--E		06163008	06/12/06
22	04027--D		06163022	06/12/06
23	04028--H7G		06163033	06/12/06
24	04029--H9G		06163009	06/12/06
25	04030--G		06163010	06/12/06
26	04031--G-1		06163034	06/12/06
27	04032--HJ7		06163035	06/12/06
28	04033--J5		06163011	06/12/06
29	04034--J3		06163012	06/12/06
30	04035--J1		06163023	06/12/06
31	04036--HJ7T		06163036	06/12/06
32	04037--EJ7T1		06163024	06/12/06
33	04038--CJ5T		06163025	06/12/06
34	04039--CJ3T		06163026	06/12/06
35	04040--EJ7T		06163013	06/12/06
36	04041--EJ7G		06163037	06/12/06

#	Ref	Description	Drawing#	Date
37	04042--EJ7		06163014	06/12/06
38	04043--HJ5		06163038	06/12/06



LITTLE  
JOB



#6-232 STANLEY CRAWFORD - LITTLE

Scale: 3/32" = 1'

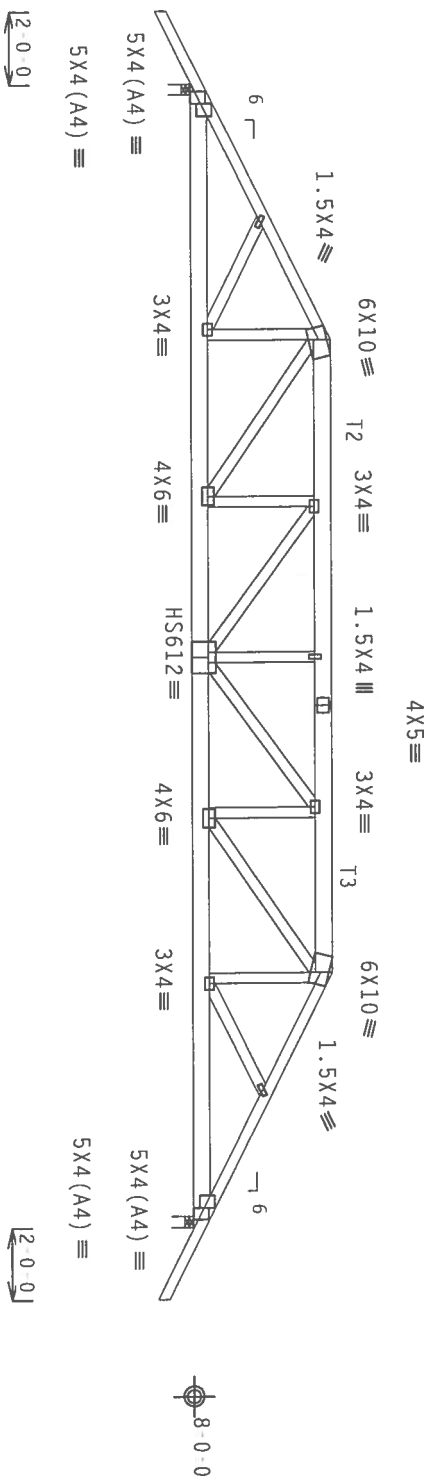
752-5152  
 623-7294

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #1 Dense:  
Bot chord 2x6 SP #1 Dense  
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located  
anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC  
DL=2.2 psf.

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

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



PLT TYP. 20 Gauge HS, Wave

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

7.24.1230

QTY:1

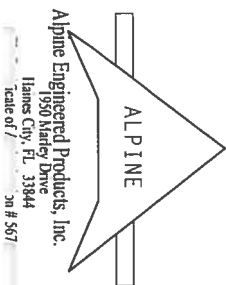
FL/-/4/-/R/-

Scale = .1875" / Ft.

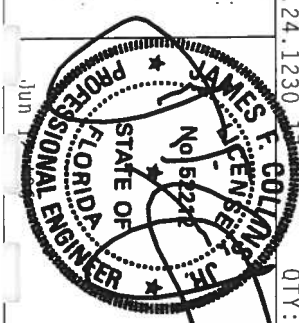
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 DORRIS DR., SUITE 200, MADISON, WI 53719) AND RISA (GOOD TRUSS CONCEPTS AND AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100 N. MICHIGAN, SUITE 1500, CHICAGO, IL 60611) FOR SAFETY PRACTICES. ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 905 (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W U/S/K) ASH 6053 GRADE 40/60 (W, K/U/S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX A3 OF TPI 2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING 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.  
1350 Marley Drive  
Haines City, FL 33844  
Scale of: 1/8" = 1'-0"

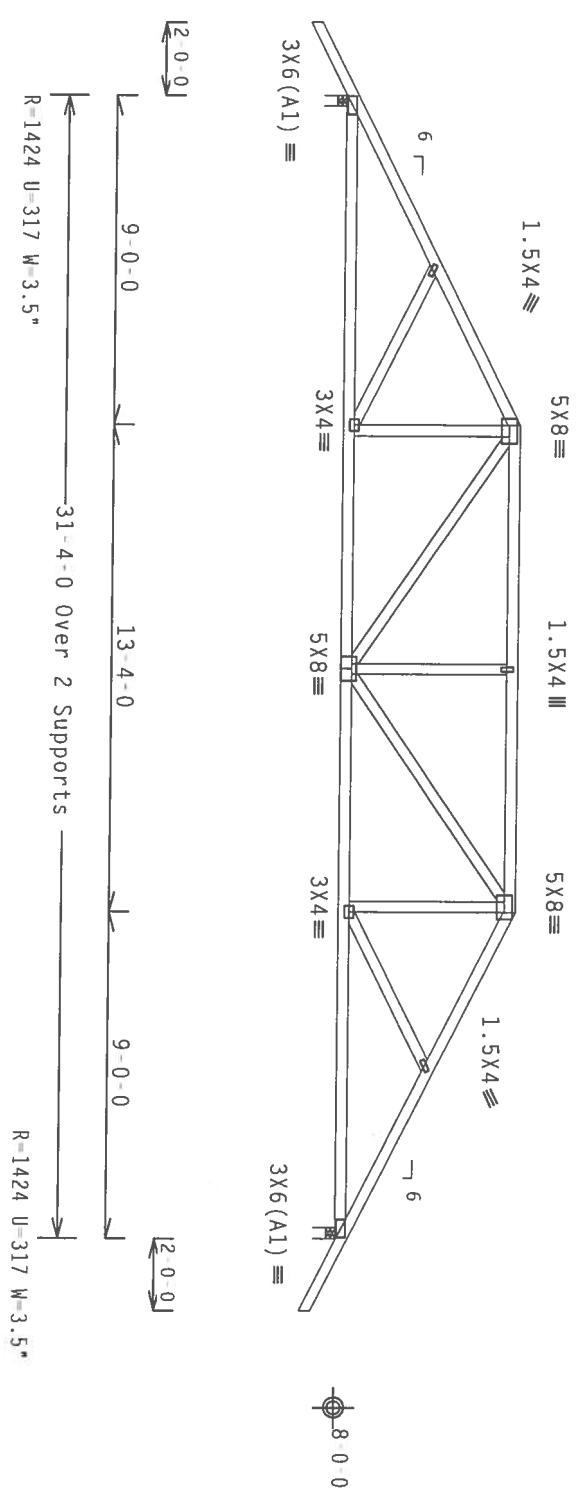


TC LL	20.0 PSF	REF R487 - 4006
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUSR487 06163027
BC LL	0.0 PSF	HC-ENG JB/AP
TOT. LD.	40.0 PSF	SEON - 35470
DUR. FAC.	1.25	
SPACING	24.0"	
JRF - 1SY0A87	Z01	

TOP CHORD 2x4 SP #2 DENSE  
Bot chord 2x4 SP #2 DENSE  
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

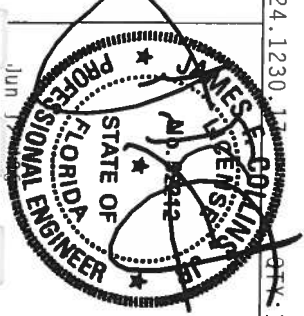
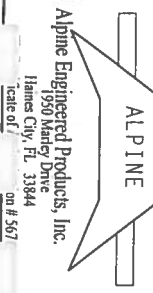
Cq/RT=1.00(1.25)/10(0) 7.24.1230.12

FL/-/4/-/R/-

Scale = .1875"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI BUILDING SYSTEMS, INC., 10000 DOWNSIDE DR., SUITE 200, MADISON, WI 53719, AND NICKI CHODD TRUSS COUNCIL OF AMERICA, 10000 DOWNSIDE DR., SUITE 200, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

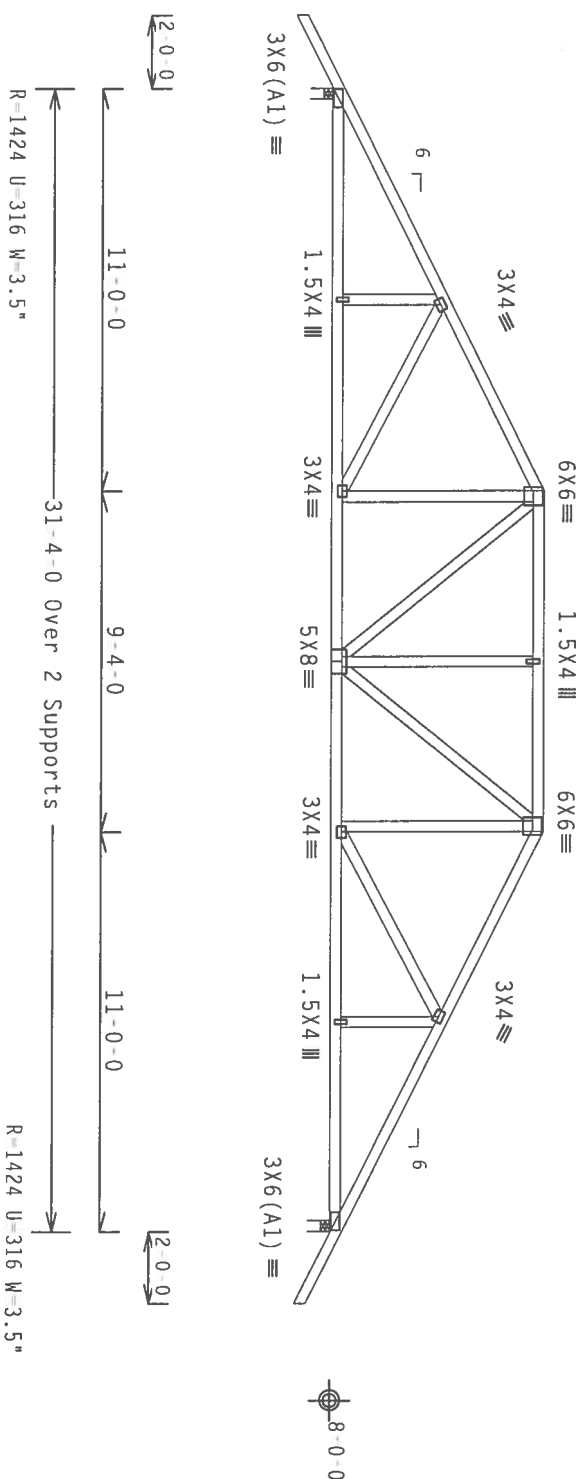
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL BE MADE OF 20/10/16GA (W/15/K) ASH 6053 GRADE 40/60 (K, K/H/S) GALV. STEEL. APPLY PLATES TO EACH END OF THE TRUSS. UNLESS OTHERWISE INDICATED, LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWING BY THE INSTALLATION CONTRACTOR SHALL BE PERFORMED AS OF TPI 2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S 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-- 4007
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUR487 06163001
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SECN- 35442
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SY0487 201

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D-2.8 psf, wind BC D-2.2 psf.

PLT TYP. Wave



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

7.24.1230) / 10(0)

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

Scale = .1875"/Ft.

\* \* \*WARNING\* \* \* BRISSES REQUIRE EXPLICIT CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BCS-1 (4) (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (BRISSES PLATE INSTITUTE, 563 O'ROURD RD., SUITE 200, MADISON, WI 53718) AND AFRICA (WOOD RESIST CONNECT, OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. BRISSES OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PADS, 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:

DESIGN CONFORMS WITH APPLICABLE

CONNECTOR PLATFS ARE MADE OF 2

ANY INSPECTION OF PLATES FOLLOWING DRAWING INDICATES ACCORDANCE

BUILDING DESIGNER PER ANSI/TPI

1

Alpine Engineered Products, Inc.

Scale of / on # 567

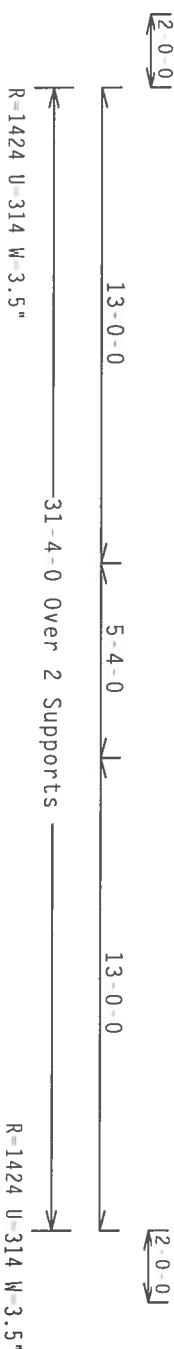
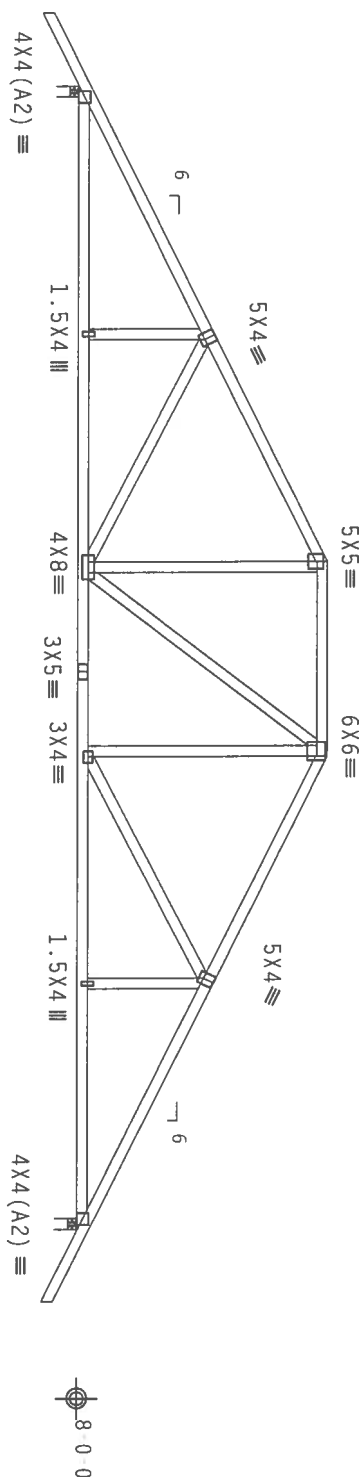


TC LL	20.0 PSF	REF	R487 - 4008
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCSR487 06163002
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	35443
DUR.FAC.	1.25		
SPACING	24.0"	JRF -	1SY0M87 201

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.



PLT TYP. Wave

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

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

Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. A PROFESSIONAL ENGINEER SHALL REVIEW AND SEAL THE TRUSS DESIGN. THE TRUSS DESIGNER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

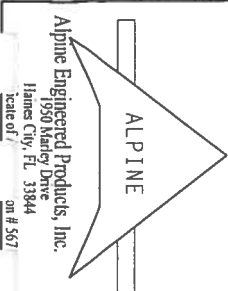
DESIGN CONFORMS WITH THE FOLLOWING: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

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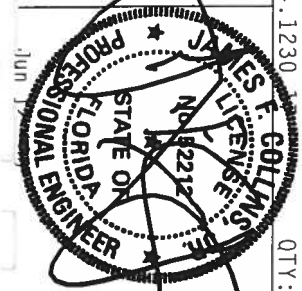
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DESIGN CONFORMS WITH THE FOLLOWING: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.



ALPINE ENGINEERING PRODUCTS, INC.  
1950 Marley Drive  
Haines City, FL 33844  
Scale of: 1/8" = 1'-0"  
QTY: 1



TC LL	20.0 PSF	REF	R487--	4009
TC DL	10.0 PSF	DATE	06/12/06	
BC DL	10.0 PSF	DRW	HCUSR487	06163003
BC LL	0.0 PSF	HC-ENG	JB/AP	*
TOT. LD.	40.0 PSF	SEQN-	35444	
DUR. FAC.	1.25			
SPACING	24.0"			

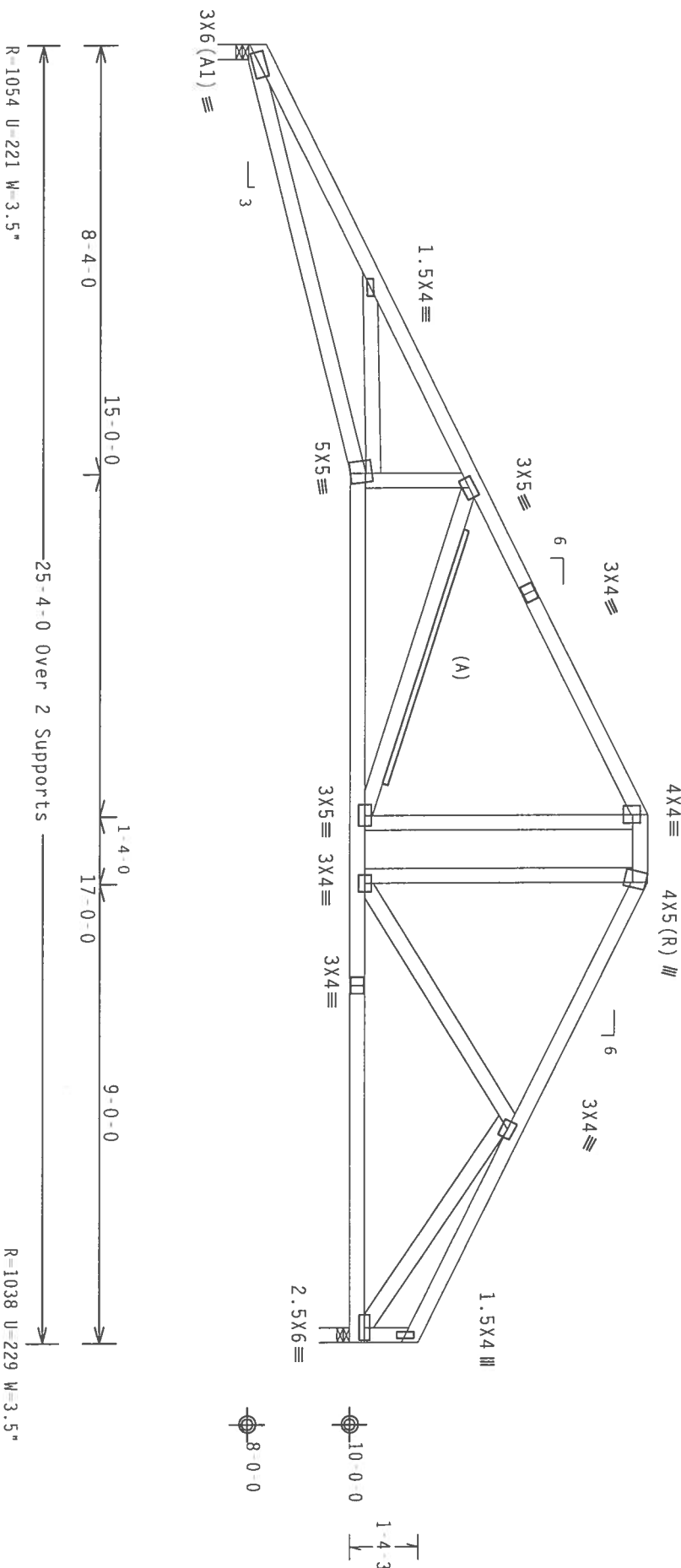
URFF-1SY0M7 201

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

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

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=2.8 psf, wind BC DL=2.2 psf.

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



PLT TYP. Wave

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

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

Scale = .3125"/ft.

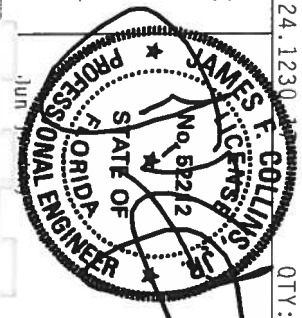
**\*\*WARNING\*\*** BRISSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RIGID CEILING. THE SOFTENING OF THE BRISSES DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE BRISSES IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SOFTENING OF THE BRISSES DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE BRISSES IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SOFTENING OF THE BRISSES DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE BRISSES IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.

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

ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SOFTENING OF THE BRISSES DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE BRISSES IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SOFTENING OF THE BRISSES DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE BRISSES IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.



ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SOFTENING OF THE BRISSES DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE BRISSES IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SOFTENING OF THE BRISSES DURING THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE BRISSES IN CONFORMANCE WITH THE DESIGN CRITERIA SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.



CD	FL	4	4	R	FL	4	4	R	FL	4	4	R
TC LL	20.0	PSF	REF	R487	-	4010	DATE	06/12/06	DRW	HCUSR487	06163004	*
BC DL	10.0	PSF	DATE	06/12/06	DRW	HCUSR487	06163004	HC-ENG	JB/AP	SEON	35452	*
TOT. LD.	40.0	PSF	DUR. FAC.	1.25	CD	4	4	R	FL	4	4	R
CD	4	4	R	FL	4	4	R	FL	4	4	R	R

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

ON # 567

JUN

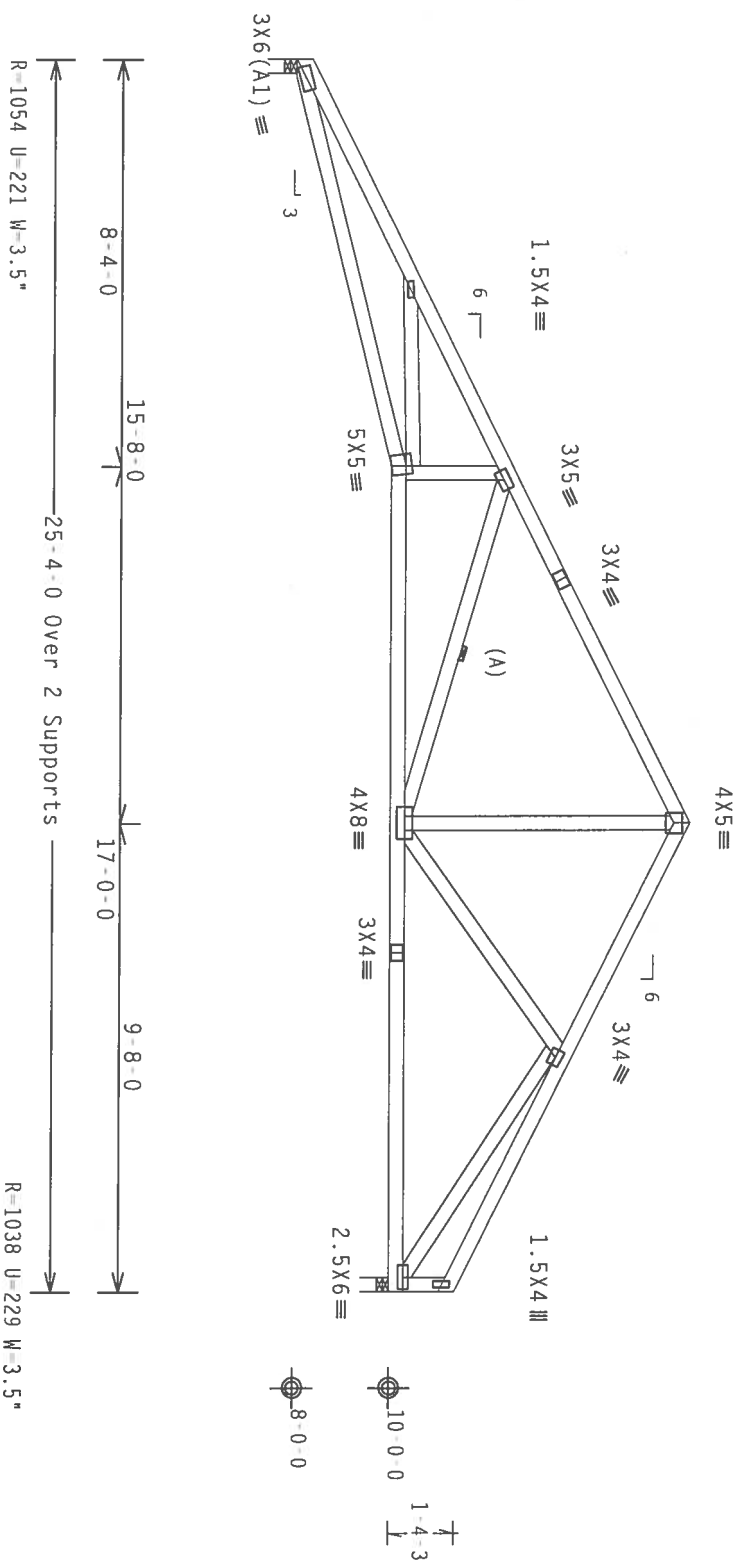
JRFF-1SY0487 201



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

(A) Continuous lateral bracing equally spaced on member.

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=2.8 psf, wind BC DL=2.2 psf.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

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

Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51.103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 100 NORTH WILSON, SUITE 200, MAISON, WI 53719, AND WCA, GOOD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE DRIVE, SUITE 200, MAISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

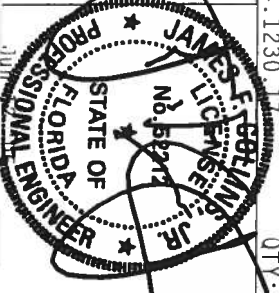
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING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

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

AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AISC 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 SAFETY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1990 Marley Drive  
James City, FL 33844  
an # 557



TC LL	20.0 PSF	REF	R487-- 4011
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163005
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEGN	35445
DUR. FAC.	1.25		
CDAGING	24.0"		

JRFF-1SY0AR7 Z01



Top chord 2x6 SP #2 :T1 2x4 SP #2 Dense:  
Bot chord 2x6 SP #2 :B2, B3, B4 2x6 SP #1 Dense:  
Webs 2x4 SP #3 :W2, W14 2x4 SP #2 Dense:

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC  
DL=2.2 psf.

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

## 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Common (0.148"x3", min.)\_nails)

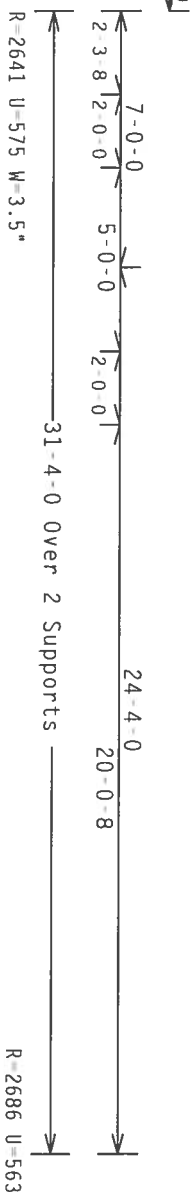
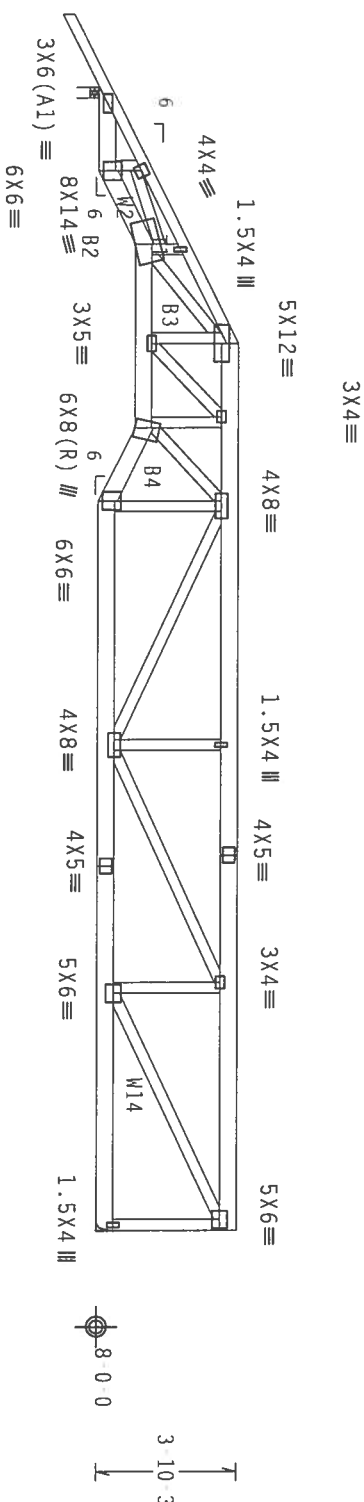
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.

Webs : 1 Row @ 4" o.c.

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

Right end vertical not exposed to wind pressure.

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



PLT TYP. Wave

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

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

Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES SHALL BE FABRICATED AND SHIPPED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES SHALL BE HANDLED AND SHIPPED IN A MANNER THAT WILL NOT CAUSE DAMAGE TO THE TRUSSES. THE TRUSSES SHALL BE STORED IN A DRY, LEVEL AREA. THE TRUSSES SHALL BE PROTECTED FROM WEATHER AND OTHER DAMAGING CONDITIONS. THE TRUSSES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES SHALL BE INSPECTED AND APPROVED BY A QUALIFIED ENGINEER BEFORE INSTALLATION. THE TRUSSES SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES SHALL BE DEMOLISHED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES SHALL BE RECYCLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES SHALL BE disposed of in accordance with local, state and federal regulations. THE TRUSSES SHALL BE disposed of in a manner that will not cause damage to the environment. THE TRUSSES SHALL BE disposed of in a manner that will not cause harm to humans or animals. THE TRUSSES SHALL BE disposed of in a manner that will not cause damage to property. THE TRUSSES SHALL BE disposed of in a manner that will not cause damage to the community. THE TRUSSES SHALL BE disposed of in a manner that will not cause damage to the environment. THE TRUSSES SHALL BE disposed of in a manner that will not cause harm to humans or animals. THE TRUSSES SHALL BE disposed of in a manner that will not cause damage to property. THE TRUSSES SHALL BE disposed of in a manner that will not cause damage to the community. THE TRUSSES SHALL BE disposed of in a manner that will not cause damage to the environment.

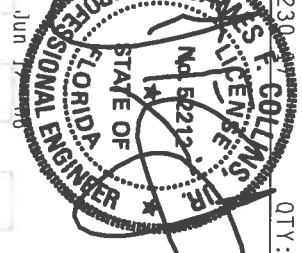
**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD IN ACCORDANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES IN CONFORMANCE WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC., BY AREA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604 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. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

Alpine Engineering Products, Inc.  
1950 Nancy Drive  
Titusville, FL 32944

Date of: 06/12/06

06/12/06



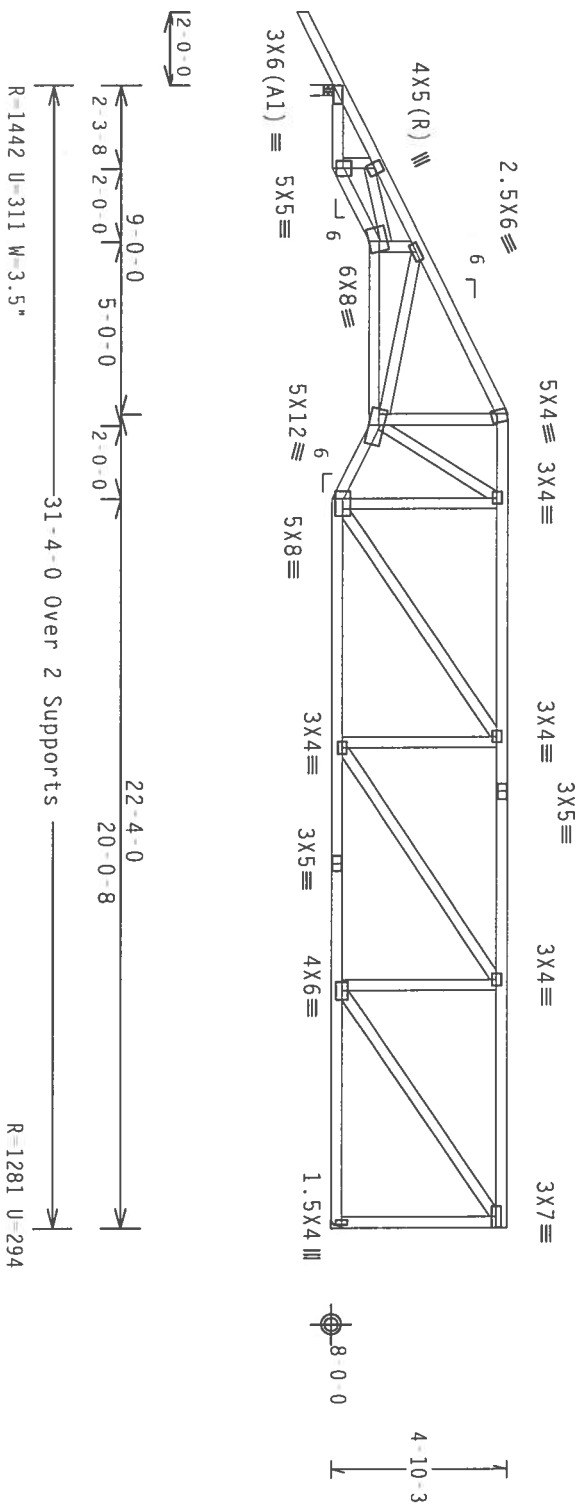
TC LL	20.0 PSF	REF R487 - 4012
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUSR487 06163028
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEQN- 35536
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 15Y0487 201

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=2.8 psf, wind BC DL=2.2 psf.

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

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

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

7.24.1230

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

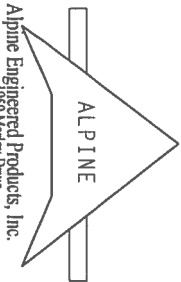
Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DETAIL 103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 963 HUNTER ROAD, SUITE 100, FARMINGTON, CT 06030) FOR ADDITIONAL INFORMATION. THESE TRUSSES ARE DESIGNED FOR A DESIGN WIND SPEED OF 110 MPH (100 MPH) AND A DESIGN WIND PRESSURE OF 2.8 PSF. THE TRUSSES SHALL BE PROTECTED FROM CORROSION BY AN ANTI-RUST COATING. THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. APPLY CONNECTION PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

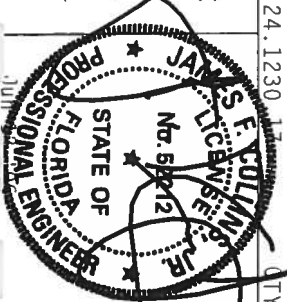
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX 1 SEC. 2.



Alpine Engineered Products, Inc.  
Haines City, FL 33844  
(888) 444-4444

Scale of: 1/8" = 1'-0"

in # 567



CD/CLING	24.0"	JREF-15Y0487	Z01
DUR. FAC.	1.25		
TOT. LD.	40.0 PSF	HC-ENG JB/AP	SEQN- 35541
BC DL	10.0 PSF	DRW HCUR487 06163015	
TC DL	10.0 PSF	DATE 06/12/06	
TC LL	20.0 PSF	REF R487-- 4013	

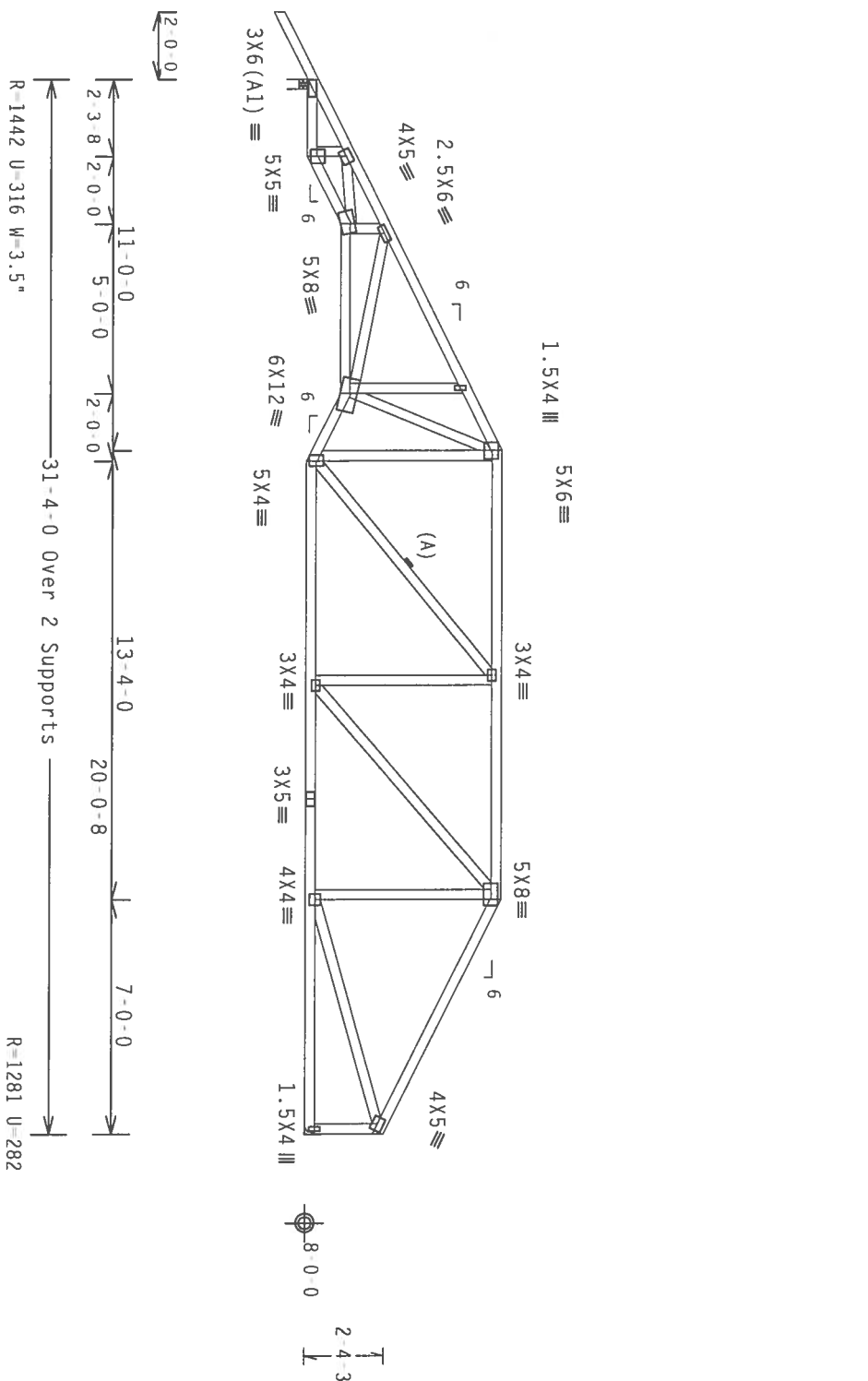
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=2.8 psf, wind BC DL=2.2 psf.

(A) Continuous lateral bracing equally spaced on member.

Right end vertical not exposed to wind pressure.

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



PLT TYP. Wave

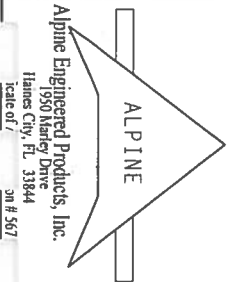
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

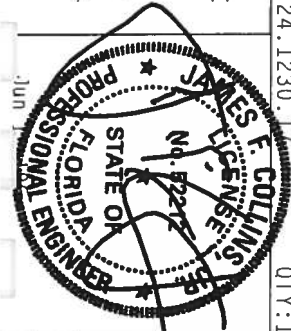
Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RIGID TO DEAD LOADS AND BUILDING COMPONENTS. SAFETY INFORMATION: THESE TRUSSES ARE DESIGNED FOR A DESIGN WIND SPEED OF 110 MPH (157 mph) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. THESE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. 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-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 360-10 (4th Ed.) AND AISC 360-10 (4th Ed.) AND TPI-2002. CONNECTION PLATES ARE MADE OF 2018/1664 (40/60) ASH A653 GRADE 40/60 (40/60) 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 BUILDING DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A3 OF TPI-2002 SEC. 3.



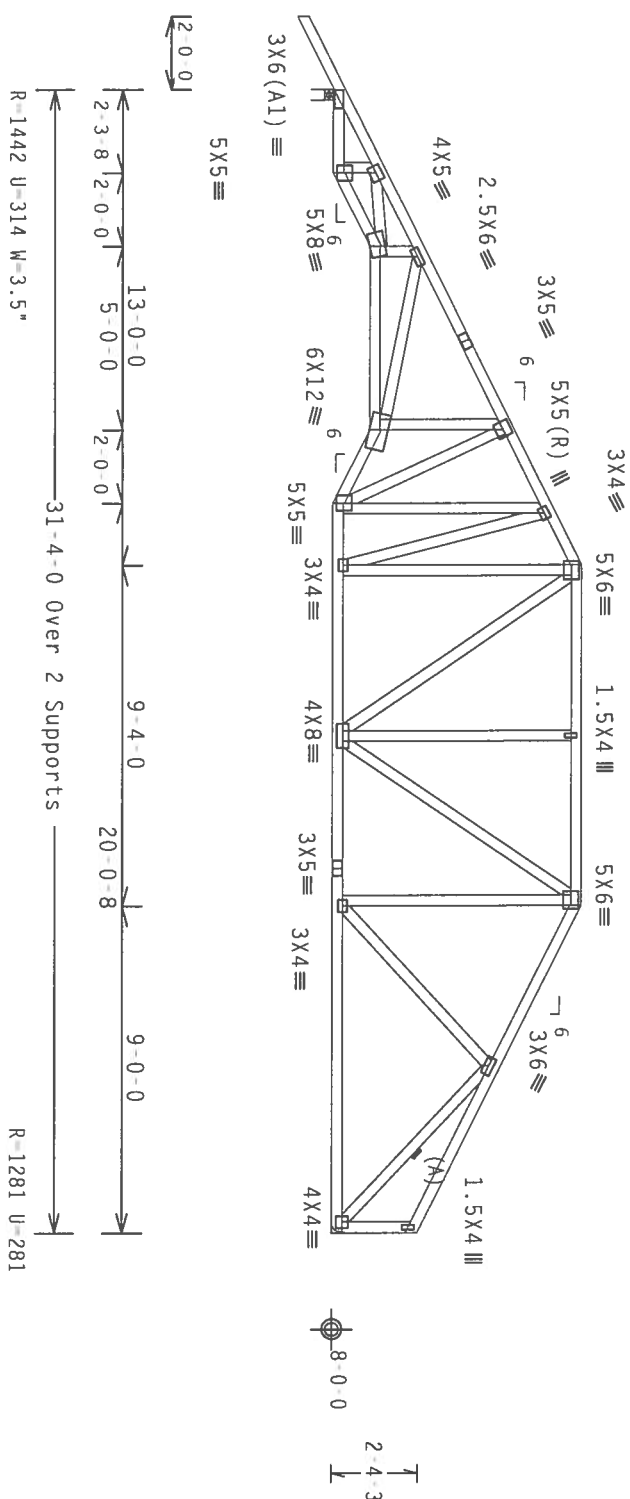
Alpine Engineered Products, Inc.  
1990 Harley Drive  
Haines City, FL 33844  
304 #567



CD/CLING	24.0"	JRFF-15YQ087 201
DUR.FAC.	1.25	
TOT.LD.	40.0 PSF	HC-ENG JB/AP
BC DL	10.0 PSF	DRW HCUR487 06163016
BC LL	0.0 PSF	DATE 06/12/06
TC DL	10.0 PSF	REF R487-- 4014
TC LL	20.0 PSF	SEQN- 35545

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=2.8 psf, wind BC D1=2.2 psf.

Right end vertical not exposed to wind pressure.



Scale = .1875"/Ft.

4.1230-1 COLLINGBURY QTY

ALPINE ENGINEERING

4.1230  
J. COLLINS  
OTT

Professional Engineer Seal for James F. Collins, State of Florida, License No. 56212, Exp. 12/31/2017.

4.12.89 / COLLINGWOOD  
Q17

**JAMES COLLINGWOOD JR.**  
No. 52212  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

Jun 12 116

TC LL	20.0 PSF	REF R487-- 4015
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUSR487 06163017
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON- 35495
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SYQ487 Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=2.8 psf, wind BC D1=2.2 psf

Right end vertical not exposed to wind pressure.



Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

Scale = .1875"/Ft.

1230:16  
91Y

ALPINE ENGINEERS

BRACING OF TRUSSES.

ALPINE

APPLY STEEL


PER DRAWINGS 160A-Z.

A SEAL ON THIS  
THE TRUSS COMPONENT

RESPONSIBILITY OF THE

5

FL / 4 / - / K / -		Scale = .18/5" / ft.
TC LL	20.0 PSF	REF R487 - 4016
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUR487 0616301B
BC LL	0.0 PSF	HC-ENG JB/AP
TOT. LD.	40.0 PSF	SEON 35558
DUR. FAC.	1.25	
SPACING	24.0"	JRFF - 1SY0487 Z01



**Alpine Engineered Products, Inc.**  
1950 Hialeah Drive  
Hialeah City, FL 33184  
Circle 67







110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=2.8 psf, wind BC D1=2.2 psf

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)

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$ 

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

Scale = .25"/Ft.

\* \* \*WARNING\*\* FROGGER SHOULD EXTRACT CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC61 1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE FIBREGLASS INSTITUTE, 5809 D'ORONDO DR., SUITE 200, MADISON, WI 53719) AND APCA (GOOD FRILLS COUNCIL OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED LIFTED CEILING.

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

TRUSS IN CONFORMANCE WITH TP1

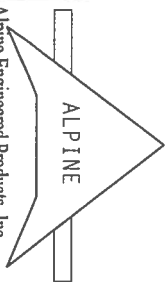
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11 2002 SEC.3  
DRAWING INDICATES ACCORDANCE OF PROPOSED PLATEWORKING OF BROWDLINITY SOLID

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

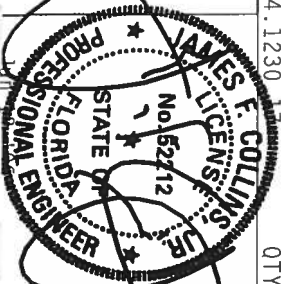
111



Alpine Engineered Products, Inc.

1930 Manley Drive  
Maines City, FL 33844

in # 567



IC LL	20.0 PSF	REF	R487 - 4019
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163006
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	35447
DUR.FAC.	1.25		
SPACING	24.0"	JRF -	1SY0487 Z01

JRFF - 1SY0A27 Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

(A) Continuous lateral bracing equally spaced on member. Deflection meets  $L/350$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.



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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$ 

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

Scale = .25"/Ft.

\*"WARNING" LABELS REQUIRE EXTRACT, CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRABING. REFER TO RC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSS-PLATE INSTITUTE, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND NICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED SPOID 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 MDS (NATIONAL DESIGN SPEC., BY AFAPA) AND TPI. ALPINE

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

PLATES TO EACH FACE OF CROSS 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 IP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUST CONTRACT

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

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

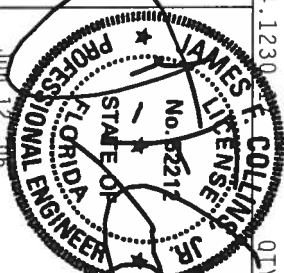
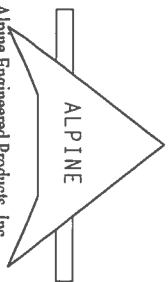
2025 RELEASE UNDER E.O. 14176

Alpine Engineered Products, Inc.

1950 Markey Drive  
Huntington, W. Va. 25844

on # 567

on # 567



TC LL	20.0 PSF	REF	R487 - - 4020
<del>TC DE</del>	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163007
BC LL	0.0 PSF	HC-ENG	JB/AP
		*	
TOT. LD.	40.0 PSF	SEQN -	35446
DUR. FAC.	1.25		
SPACING	24.0"	JRFF -	1SY0487 201

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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

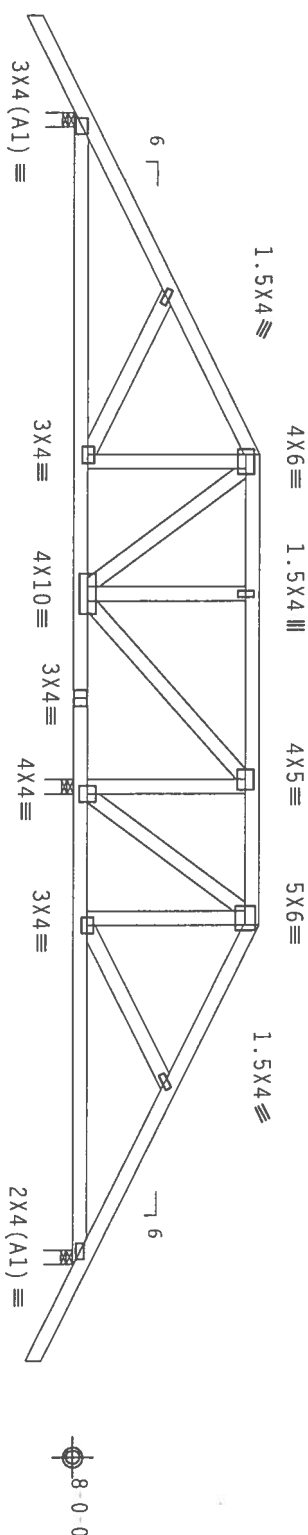


Diagram showing the elevation view of the bridge deck. The total length is 23-8-0. The deck is supported by three supports. The dimensions are as follows:

- Left overhang: 7-0-0
- Span 1: 13-9-12
- Span 2: 9-8-0
- Span 3: 7-0-0
- Right overhang: 2-0-0

Support locations are indicated by vertical lines with arrows pointing to the deck. The dimensions for the supports are:

- Support 1: R=920 U=208 W=3.5"
- Support 2: R=2670 U=575 W=3.5"
- Support 3: R=434 U=180 W=3.5"

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

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$$

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

Scale = .25"/Ft.

\*WARNING\* FROSTES, RE-USE EXISTING CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ACES 1-0 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSS PLATE INSTITUTE), 591 O'ROURD DR., SUITE 200, MADISON, WI 53719, AT 53719, AND A/C, (GOOD FRASS CONNECT, OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53719) FOR PROPER PRACTICES RELATIVE TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE OR FABRICATING, HANDLING, SHIPPING, INSTALLING & GRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AISC) AND TP1. ALPINE


CONCRETE PLATES ARE MADE OF 20/18/16GA (W,H,T/S) ASTM A563 GRADE 40/60 (Y, 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 A3 OF IP11 2002 SEC.3. A SEAL ON THIS

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

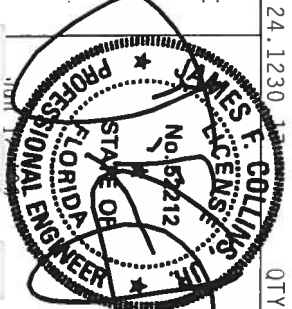
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

BUILDING DESIGNER PER ANSI/HP 1 SEC. 7.

1



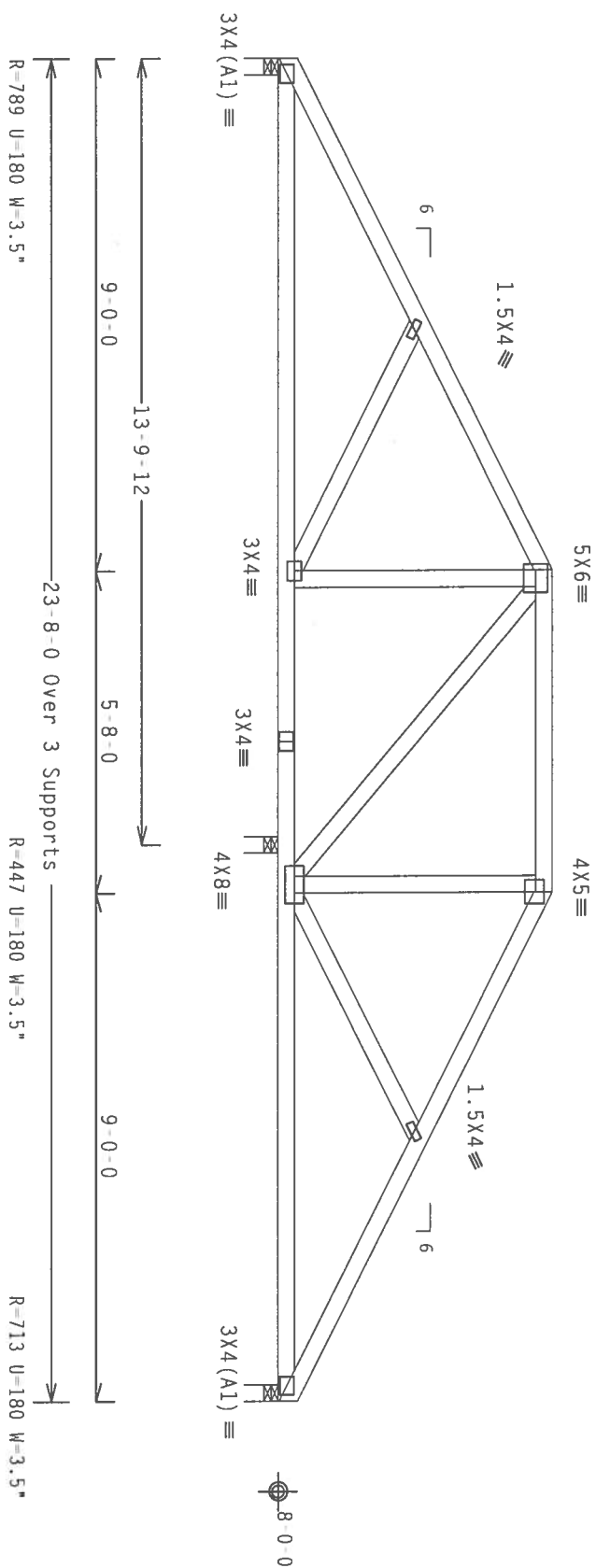
**Alpine Engineered Products, Inc.**  
 1950 Marley Drive  
 Tallahassee, FL 32304  
 Tel: 904/291-1111  
 Telex: 5657  
 Fax: 904/291-1111



TC LL	20.0 PSF	REF	R487 - - 4021
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCU8R487 06163029
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	35467
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SY0A87 Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf

PLT TYP. Wave



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

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

**2000**

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

Scale = .3125" / Ft.

**WARNING:** TRUSSES REQUIRE EXPERT CARE IN FABRICATION, INSTALLATION, SHIPPING, UNLOADING AND BRACING. REFER TO BC61-1 (3) (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLAN INSTITUTE), 563 D'ONDRO RD., SUITE 200, MOBILE, AL 36619, AND AISC (STEEL INSTITUTE), 500 N. MICHIGAN, 6TH FLOOR, CHICAGO, IL 60611, FOR SAFETY PRACTICES PERTAINING TO REINFORCING, LIFTING FUNCTIONS. THESE CONDITIONS INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

TRUSS IN CONFORMANCE WITH TPI:

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

CONNECTOR PLATES ARE MADE OF 20/18/16GA (H, H/5/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-2 AND INSPECTION OF PLATE FOLLOWED BY (4) SHALL BE REQUIRED AS OF 1011-2003 ETC 3 A SEAL ON THIS

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

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

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

100



**ALPINE**  
Engineered Products, Inc.  
1950 Albany Drive  
Haines City, FL 33844  
Circle 67 on #367

TC LL	20.0 PSF	REF	R487-- 4022
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163021
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	35440
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SY0487 Z01

Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #1 Dense  
Webs 2x4 SP #3 :W9 2x4 SP #2 Dense:

**SPECIAL LOADS**

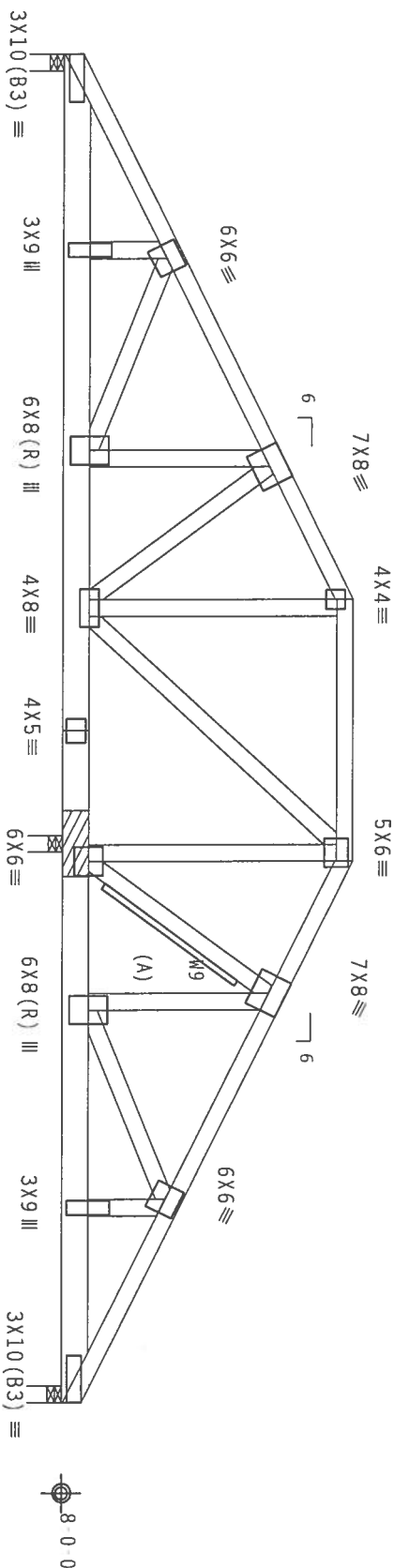
(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC From 62 PLF at 0.00 to 62 PLF at 23.67  
BC From 20 PLF at 0.00 to 20 PLF at 23.67  
BC 1289 LB Conc. Load at 14.60, 16.60, 18.60, 20.60, 22.60

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

Bearing blocks: Nail type: 10d Common (0.148"x3",min.)-nails  
BRG X LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
2 13.667' 1 14" 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=2.8 psf, wind BC DL=2.2 psf.

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



9-6-8 13-9-12 4-7-0 9-6-8  
R-203 U-180 W-3.5" R-5122 U-1377 W-3.5" R-3069 U-712 W-3.5"

PLT TYP. Wave

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

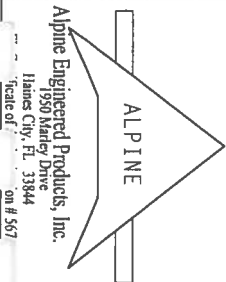
QTY: 1 FL/-/4/-/R/-

Scale = .3125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGN 103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 590 DUNSTON RD., SUITE 100, WILSON, NJ 07094, (908) 671-1111, FOR SAFETY PRACTICES. THESE INSTRUCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES 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 A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W-1/8) ASTM A653 GRADE 40/60 (W-1/8) 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 SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Ketter Drive  
Hialeah City, FL 33444  
Scale of: 1/8" = 1'-0"  
on #567



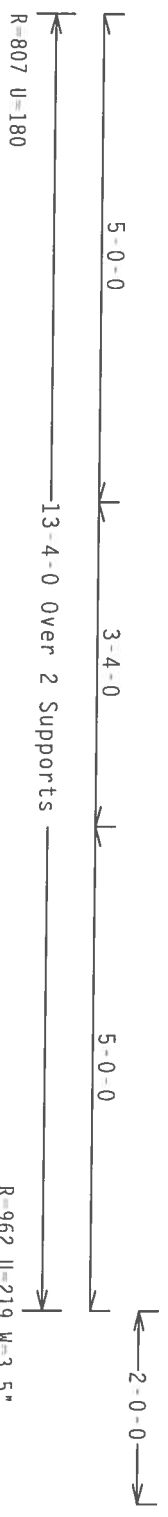
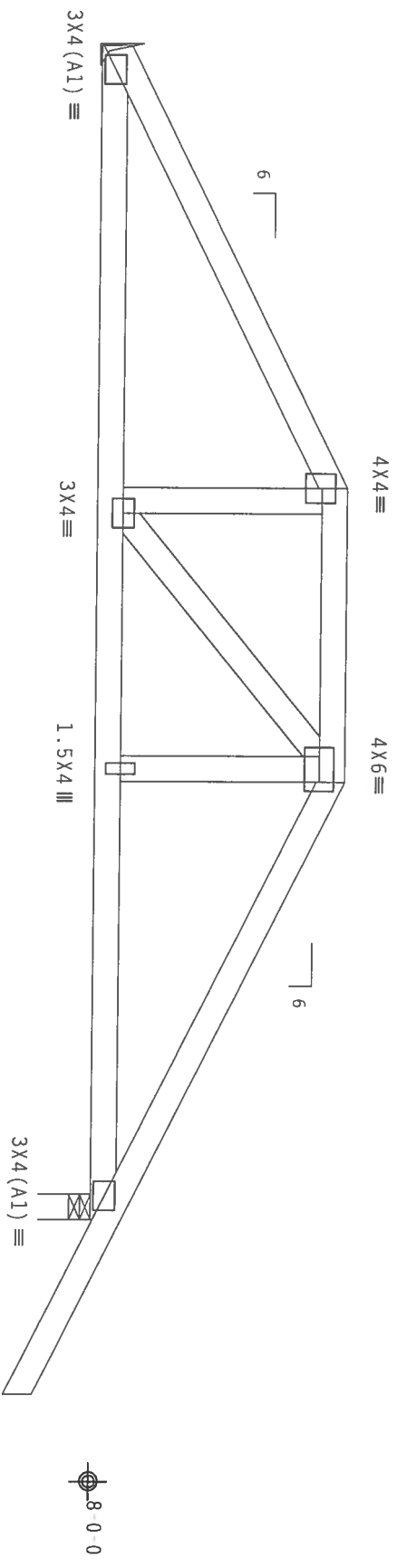
TC LL	20.0 PSF	REF	R487 - 4023
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCSUR487 06163030
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	35513
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	15YQAR7 201

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, Exp B, wind TC DL=2.8 psf, wind BC  
DL=2.2 psf.

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



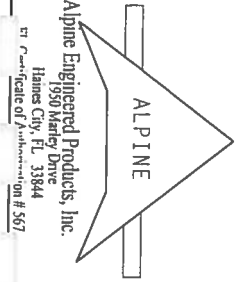
PLT TYP. Wave

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

7.24.1230.17

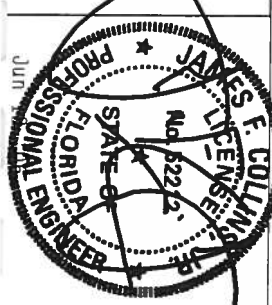
QTY: 1 FL/-/4/-/R/-

Scale = .5"/ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31, 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 530 N. DEARBORN DR., SUITE 200, HANSON, WI 53129, AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.) 1110 N. MICHIGAN, SUITE 1000, CHICAGO, IL 60611. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

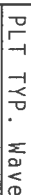
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.) 1110 N. MICHIGAN, SUITE 1000, CHICAGO, IL 60611, OR AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.) 1110 N. MICHIGAN, SUITE 1000, CHICAGO, IL 60611, SHALL BE THE RESPONSIBILITY OF THE TRUSS DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 4024
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUR487 06163031
BC LL	0.0 PSF	HC-ENG JB/AP
TOT. LD.	40.0 PSF	SEQN- 35566
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1SY0487 Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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

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

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

Scale = .5"/Ft.

JAMES F. COLLINS  
LICENSE

TC LL	20.0 PSF	REF R487 - 4025
TC DL	10.0 PSF	DATE 06/12/06

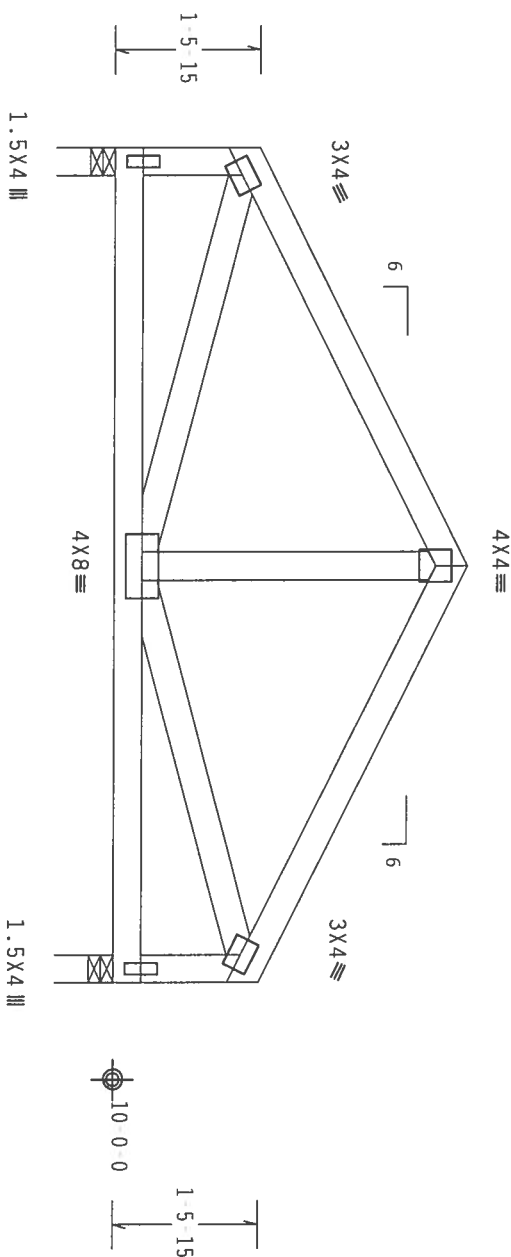
\*IMPORTANT\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. AIRPORT ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. IF THE INSTALLATION OF THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AIRPORT AND THE CONNECTION PLATES ARE MADE OF 201/91/6064 (AL-5/5K) ASST 4653 GRAD 40/660 (IN. K/H-5) GALV. STEEL. APPLY PLATES TO EACH FACE OF 1805S AND, UNLESS OTHERWISE NOTED ON THE DESIGN, POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX A OR E OF 1/11/2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THE BUILDING. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMST/DP1 SEC. 2.

BC DL	10.0 PSF	DRW	HCUSR487	06163032
BC LL	0.0 PSF	HC-ENG JB/AP		
TOT.LD.	40.0 PSF	SEON	35469	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1SY0487.Z01	



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D=2.8 psf, wind BC D=2.2 psf.

PLT TYP. Wave



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

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

7.24.1230.17

~~QTY: 1~~

FL/14/1/R/

Scale = .5"/Ft.

**WARNING:** THESE TRUCKS REQUIRE EXPLICIT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51.103 (BUILDING EXPLICIT CARE IN FABRICATION), HANDLED BY THE CRIBS PLATE INSTITUTE, 503 D'ORLANDO RD., SUITE 200, MADISON, NJ 07110, AND VICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE IN MADISON, NJ 07110) FOR SPECIFIC PRACTICES PERTAINING TO REPAIRING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CRIBS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED LIGID CEILING.

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

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 IP1. CONNECTOR PLATES ARE MADE OF 201/4/16in (H./I./S./K) ASTM A563 GRADE 40/60 (H. /K./I./S) GALV. STEEL. APPLY

PLATES TO EACH TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP11.2002 SEC.3. A SEAL ON THIS DRAINING INDICATES LOCATION OF INSPECTIONAL POINTING APPROXIMATELY DOWN THE

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE FIRST COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. SEE ANSI/TPI 1 SEC. 2

2015.09.09 09:20:00 100.00/100.00 100.00

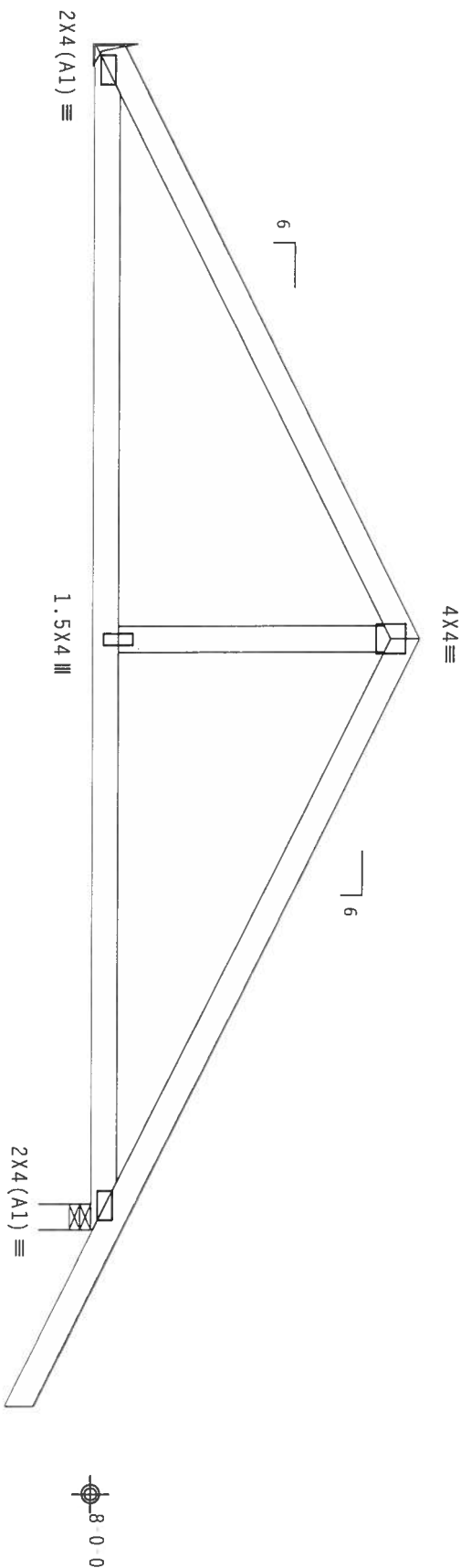
230.17  
JUN 1997  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
JAMES E. COLLINS  
No. 0212  
AY

TC LL	20.0 PSF	REF	R487 - 4026
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163008
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	35441
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SY0487_201

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC  
DL=2.8 psf, wind BC DL=2.2 psf.

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



PLT TYP. Wave

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

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

Scale = .5"/ft.

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

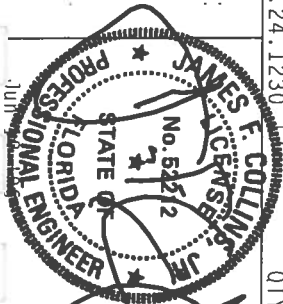
**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 2018/1664 (W/15/2) ASH A653 GRADE 40/60 (W/ 4/11.5) 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 (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.  
1950 Marley Drive  
Haines City, FL 33844

Date of: 20# 507



SPACING	24.0"	DRW	HCUSR487 06163022
TC LL	20.0 PSF	REF	R487-4027
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163022
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN	35490
DUR. FAC.	1.25		

JRFF-15YQAR7 Z01

SPECIAL LOADS  
(LUMBER  
TC - From

	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC From	62 PLF at 2.00 to 62 PLF at 24.00
BC From	4 PLF at 2.00 to 4 PLF at 0.00
BC From	20 PLF at 0.00 to 20 PLF at 10.00
BC From	20 PLF at 10.00 to 20 PLF at 22.00
BC From	4 PLF at 22.00 to 4 PLF at 24.00
TC 433 LB Conc.	load at 7.00
TC 1141 LB Conc.	load at 8.60
BC 432 LB Conc.	load at 7.00
BC 1141 LB Conc.	load at 8.60

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



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

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$$

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

Scale = .25" / Ft.

**JAMES F. COLLINS**  
PATENT ATTORNEY  
NEW YORK

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

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

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

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

111

Professional Engineer Seal for James F. Collins, State of Florida, License No. 52712, Mechanical Engineering.

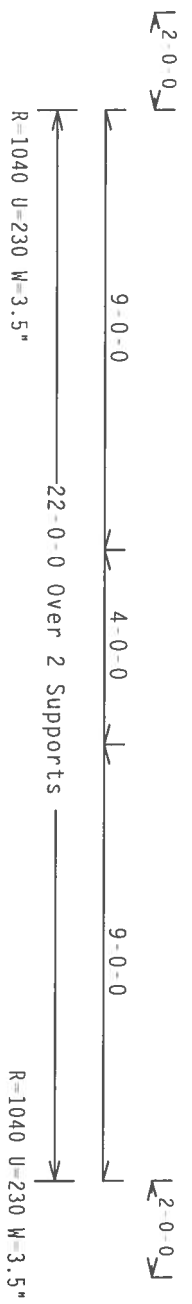
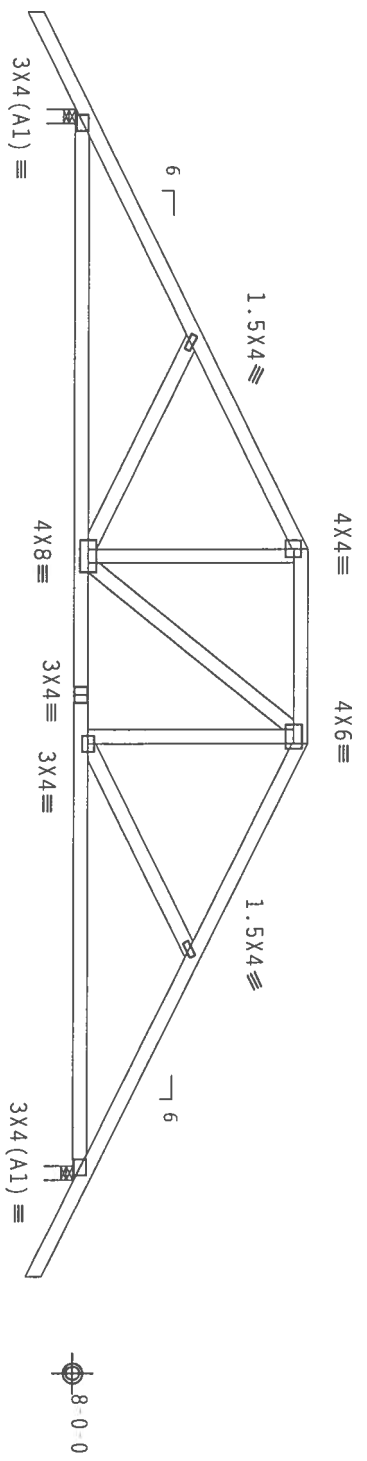
FL - 4 - R -		Scale = .25"/ft.
TC LL	20.0 PSF	REF R487 - 4028
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUSR487 06163033
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON- 35480
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SY0487 201

JRFF - 1SY0A27 Z01

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

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

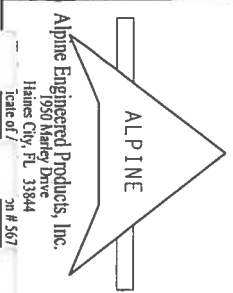
110 mph wind, 15.00 ft mean hgt., ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.



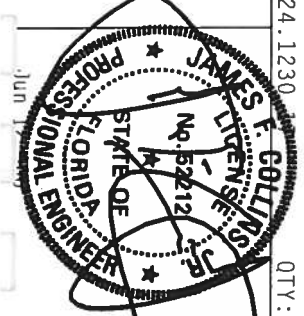
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC QTY: 1 FL/-/4/-/-/R/- Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSS. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSS. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSS.

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



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Hialeah City, FL 33384  
Tel: 305/567-2011

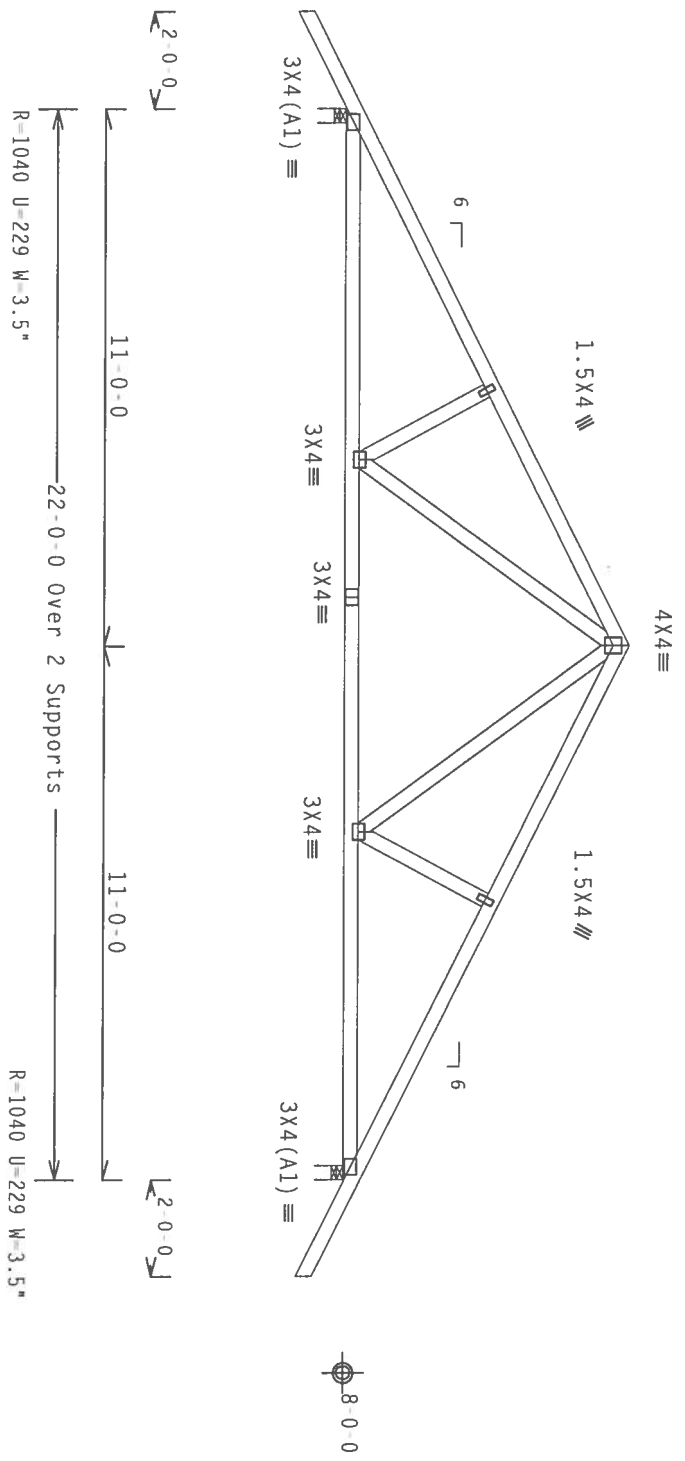


CDG/ING	24.0"	JRFF-15V0A07.201
DUR.FAC.	1.25	
TOT.LD.	40.0 PSF	SEQN-35433
BC DL	10.0 PSF	DRW HCUR487 06163009
TC DL	10.0 PSF	DATE 06/12/06
REF	R487--4029	

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.



PLT TYP. Wave  
Design Crtt: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1230

QTY: 1 FL/-/4/-/R/- Scale = .25"/Ft.

ALPINE

Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Phone #567

PLT TYP. Wave

Design Crtt: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1230

QTY: 1 FL/-/4/-/R/- Scale = .25"/Ft.

TC LL	20.0 PSF	REF R487-- 4030
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUR487 06163010
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT.LD.	40.0 PSF	SEQN- 35434
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 15Y0487 Z01

PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 15222  
JUN 12 2006

TOP chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #1 Dense  
Webs 2x4 SP #3 : W7 2x4 SP #2 Dense:

SPECIAL LOADS

TC - From	62 PLF at -2.00 to 62 PLF at 24.00
BC - From	4 PLF at -2.00 to 4 PLF at 0.00
BC - From	20 PLF at 0.00 to 20 PLF at 12.00
BC - From	20 PLF at 12.00 to 20 PLF at 22.00
BC - From	4 PLF at 22.00 to 4 PLF at 24.00
BC - 1285 LB Conc. Load at	4.94
BC - 1279 LB Conc. Load at	6.94
BC - 1281 LB Conc. Load at	8.94
BC - 2686 LB Conc. Load at	14.94

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Common (0.148"x3", min.)\_nails)

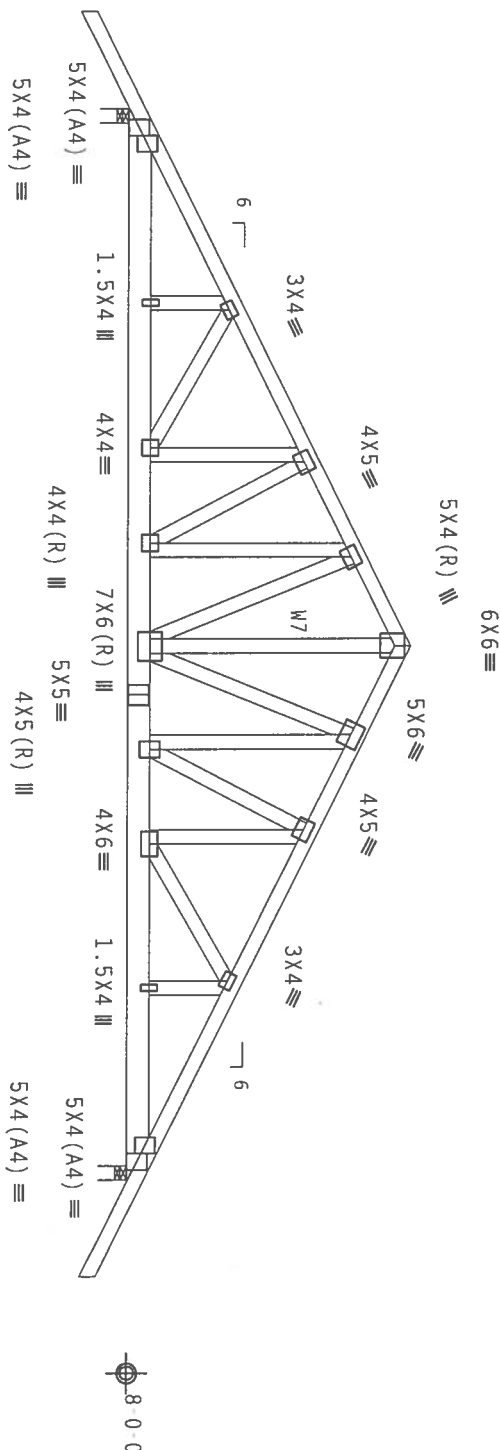
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @ 4.50" o.c.

Webs : 1 Row @ 4" o.c.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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



PLT TYP. Wave

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

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

Scale = .25"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RETAINING WALLS, FOUNDATIONS, AND OTHER STRUCTURES SHALL BE DESIGNED TO SUPPORT THE TRUSS. MAINTAIN A MINIMUM 200' MAINTENANCE CLEARANCE AROUND THE TRUSS. 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 OF BUILDING TRUSSES IN CONFORMANCE WITH TPI-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. FOR STEEL) AND TPI-2002 (STD). CONNECTION PLATES ARE MADE OF 20/19/16GA (W/5/3/5) ASPM A653 GRADE 40/60 (W/4/4/5) GALV. STEEL. APPLY 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 SPLITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI-1 SEC. 2.



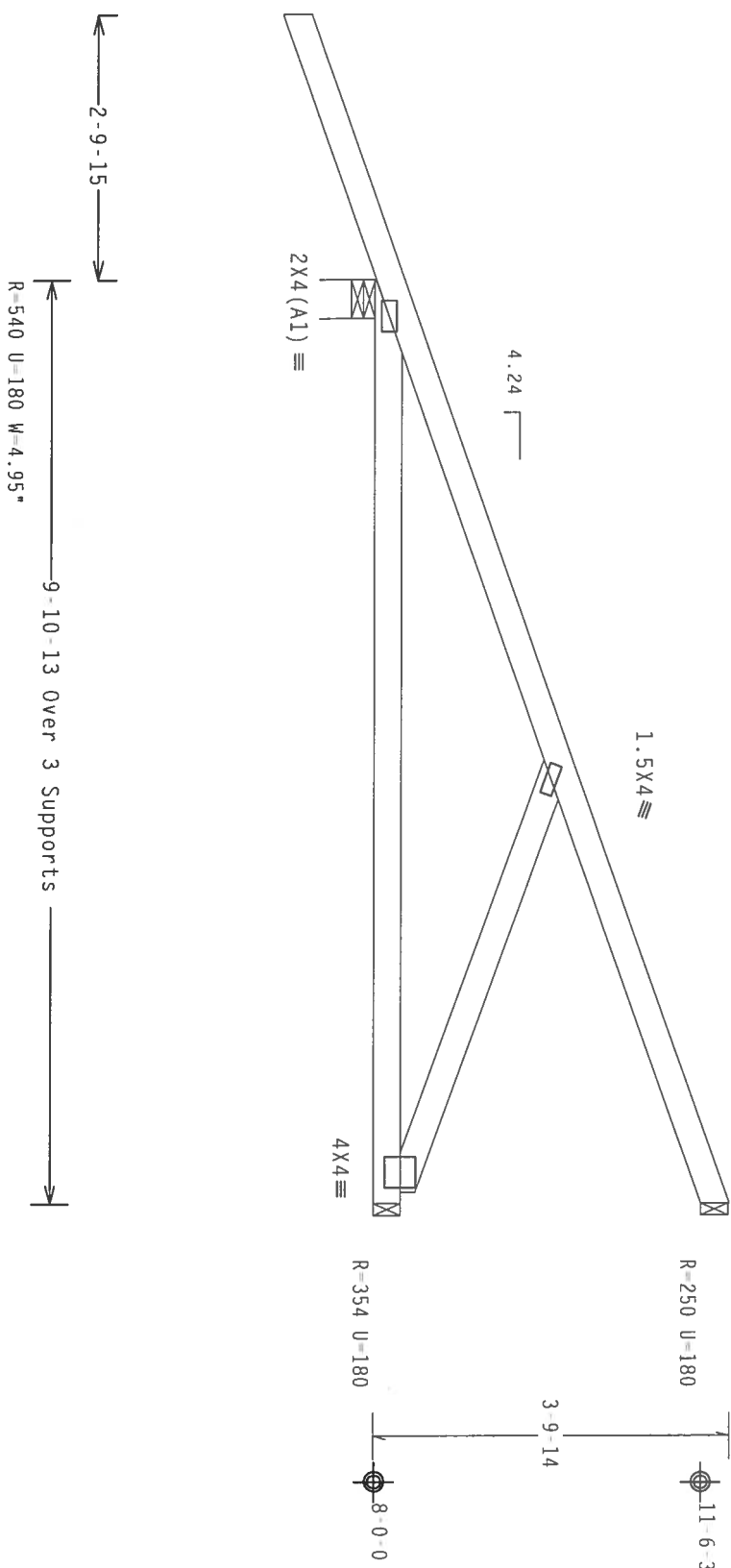
TC LL	20.0 PSF	REF R487 - - 4031
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCURS487 06163034
BC LL	0.0 PSF	HC-ENG JB/AP
TOT. LD.	40.0 PSF	SEON- 35466
DUR. FAC.	1.25	
SPACING	24.0"	

Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Page 1 of 1  
Date of 7/1/06

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=2.8 psf, wind BC DL=2.2 psf.

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

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



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

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230.17$$

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

Scale = .5"/Ft.



Alpine Engineered Products, Inc.

1930 Marney Drive  
Haines City, FL 33844

Scale of \_\_\_\_\_ on # 567

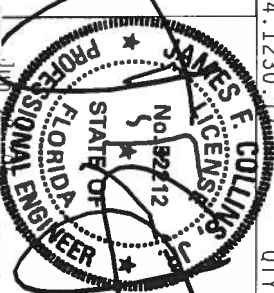
**\*\*\*WARNING\*\*\*** PRIESTS REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DGCI 1.0 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSS PLASTIC INSTITUTE), 503 D'ORNBROOK BL., SUITE 200, MADISON, WI 53119, AND WEFA (WOOD FRAMES COUNCIL OF AMERICA), 6700 ENTERPRISE BL., MADISON, WI 52719, FOR PRACTICES PERTAINING TO PERFORMING THESE FUNCTIONS. THESE CESSURES INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED TO TOP CHORD CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI'S OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES OR CONNECTIONS WITH THE TRUSS PRODUCTIONS, OR ANY OTHER DESIGN, SPECIFICATION, OR INSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE USER OF THE TRUSS.

DESIGN CONTAINS APPLICABLE PROVISIONS FOR RUS NATIONAL DESIGN SPEC. BY ACPA AND TPI. ALPHINE  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/S/K) ASTM A553 GRADE 40/60 (Y. 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 TPI1 2002 SEC. 3. A SEAL ON THIS

DESIGNING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TROSS COMPONENT BEING SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

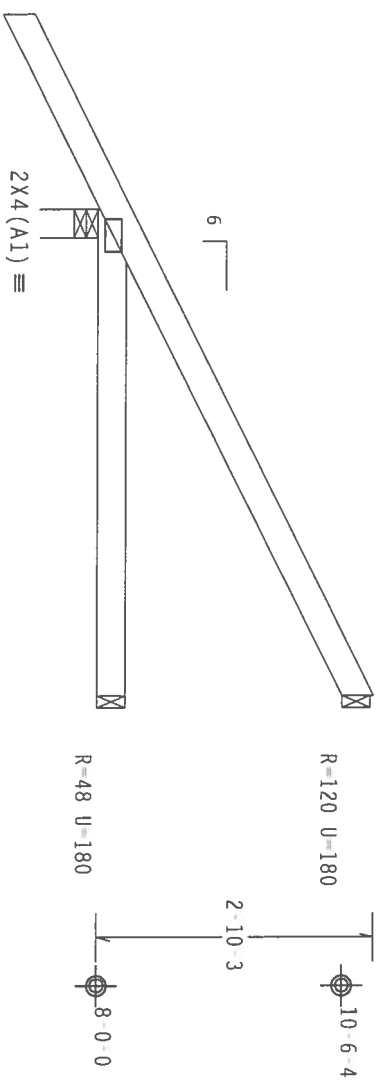


TC LL	20.0 PSF	REF	R487 - - 4032
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163035
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	35459
DUR.FAC.	1.25		
SPACING	24.0"	URFF	1SY0487 201



Top chord 2x4 Sp #2 Dense  
Bot chord 2x4 Sp #2 Dense  
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=2.8 psf, wind BC DL=2.2 psf.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



2-0-0  
5-0-0 Over 3 Supports  
R-377 U=180 W=3.5"

PLT TYP. Wave

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

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

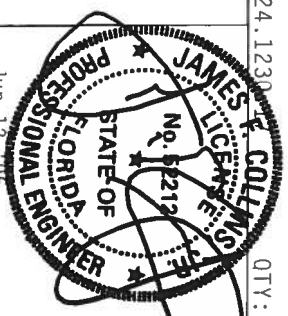
Scale = .5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY) AND BCST 1.04 (TRUSS SAFETY) FOR ADDITIONAL INFORMATION. HANSON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



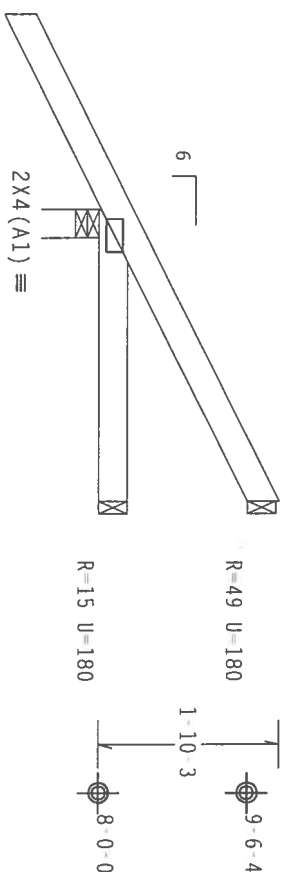
Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
on #567



TC LL	20.0 PSF	REF	R487--	4033
TC DL	10.0 PSF	DATE	06/12/06	
BC DL	10.0 PSF	DRW	HGUSR487	06163011
BC LL	0.0 PSF	HC-ENG	JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	35435	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1SY0487	201

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

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.



200

3-0-0 Over 3 Supports  
R=317 U=180 W=3.5"

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1239$ 

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

Scale = .5"/ft.



Alpine Engineered Products, Inc.  
10604 Ardmore Drive

scale of / on H 567

\***WARNING:** ALL FRAMES REQUIRE EXPOSED CAME IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO EC5-1 TO (BUILDING COMPONENT SPECIFICATION), CONSULTED BY IPI (CROSS RAIL INSTITUTE, 503 D'ORLANDO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD RUSSELL CORP. OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53719) FOR PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

ALPINE ENGINEERED

TRUSS IN CONFORMANCE WITH TPI:

OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 2

20/18/16GA (W, H, S, K) ASTM A653 GRADE 40/60 (W, K, H, S) GALV. 5

APPLY STEEL

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

**A SEAL ON THIS**

DESIGN SHOWN, THE SUITABILITY

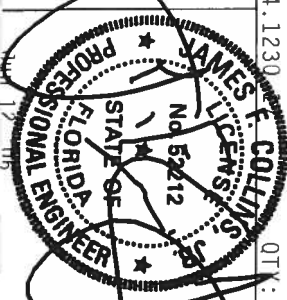
ITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONS

RESPONSIBILITY OF THE

55

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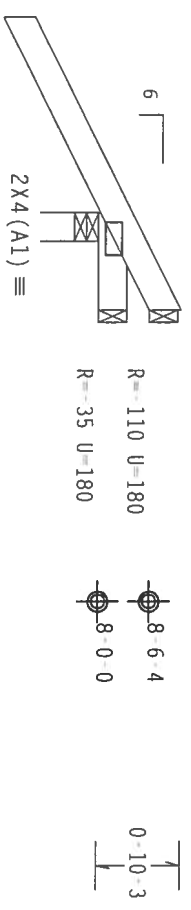
15



FL/-4/-1/R/-		Scale = .5"/Ft.	
TC LL	20.0 PSF	REF	R487 - 4034
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCSUR487 06163012
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	35436
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1SYQV0A7 Z01

top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 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=2.8 psf, wind BC DL=2.2  
 psf.  
 Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
 Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



2-0-0  
 1-0-0 Over 3 Supports  
 R=361 U=180 W=3.5"

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

7.24.1230  
 QTY:1 FL/-/4/-/R/-  
 Scale =.5"/ft.

<p><b>ALPINE</b></p> <p>Alpine Engineered Products, Inc.          1950 Manley Drive          Ft. Lauderdale, FL 33304          on #567</p>		<p><b>PROFESSIONAL ENGINEER</b>          STATE OF FLORIDA          No. 2217          JUNE 12 2006</p>	
TC LL	20.0 PSF	REF	R487-- 4035
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163023
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	35437
DUR.FAC.	1.25		
SPACING	24.0"	DRWF-	15V0A97 201

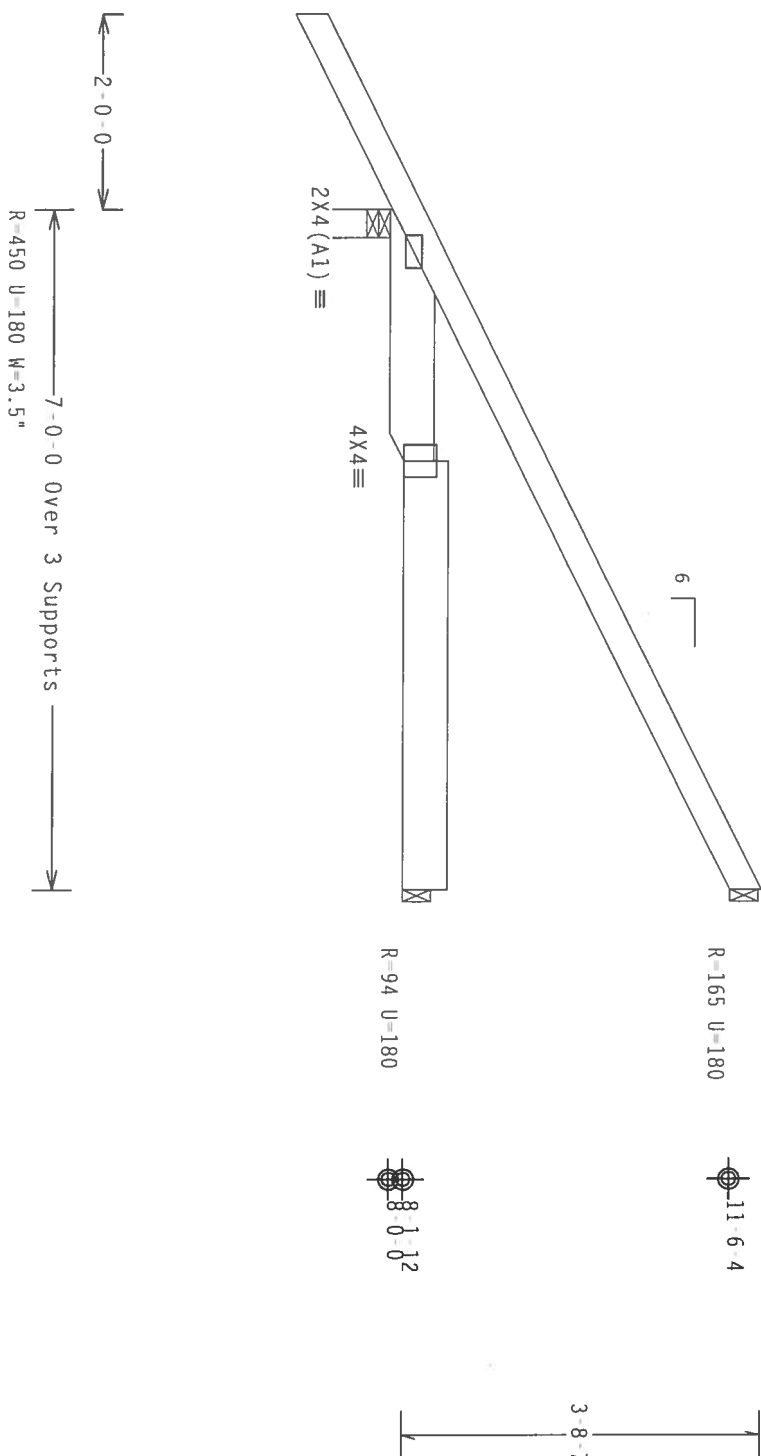
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BCST 1.03 BUILDING CONSTRUCTION SAFETY AND RISK MANAGEMENT, 537.01 AND 537.02, AND WICA TRUSS CONSTRUCTION, 537.01, 537.02, 537.03, 537.04, 537.05, 537.06, 537.07, 537.08, 537.09, 537.10, 537.11, 537.12, 537.13, 537.14, 537.15, 537.16, 537.17, 537.18, 537.19, 537.20, 537.21, 537.22, 537.23, 537.24, 537.25, 537.26, 537.27, 537.28, 537.29, 537.30, 537.31, 537.32, 537.33, 537.34, 537.35, 537.36, 537.37, 537.38, 537.39, 537.40, 537.41, 537.42, 537.43, 537.44, 537.45, 537.46, 537.47, 537.48, 537.49, 537.50, 537.51, 537.52, 537.53, 537.54, 537.55, 537.56, 537.57, 537.58, 537.59, 537.60, 537.61, 537.62, 537.63, 537.64, 537.65, 537.66, 537.67, 537.68, 537.69, 537.70, 537.71, 537.72, 537.73, 537.74, 537.75, 537.76, 537.77, 537.78, 537.79, 537.80, 537.81, 537.82, 537.83, 537.84, 537.85, 537.86, 537.87, 537.88, 537.89, 537.90, 537.91, 537.92, 537.93, 537.94, 537.95, 537.96, 537.97, 537.98, 537.99, 537.100, 537.101, 537.102, 537.103, 537.104, 537.105, 537.106, 537.107, 537.108, 537.109, 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Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=2.8 psf, Wind BC DL=2.2 psf.

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



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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$ 

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

Scale = .5"/Ft.

**\*WARNING-** FRASSES REQUIRE EXPERT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RC61 1-0 (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY TPI (FRASS PLATE INSTITUTE, 503 O'DONRUE DR., SUITE 200, MADISON, WI 53719) AND WPCA (WOOD FRASS COUNCIL OF AMERICA, 6500 CHERRY BLVD IN MADISON, WI 53719) FOR SAFETY PRACTICES APPLICABLE TO MEETING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHILD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHILD SHALL HAVE A PROPERLY ATTACHED LIGID CEILING.

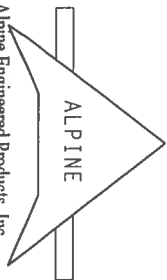
\*\*\* IMPORTANT \*\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

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

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP1) 2002 SEC.3. A SEAL ON THIS

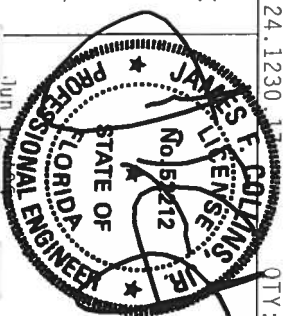
DESIGN SHOWN THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

[illegible]

Alpine Engineered Products, Inc.

Flaines City, FL 33844

Scale of 1 to 567

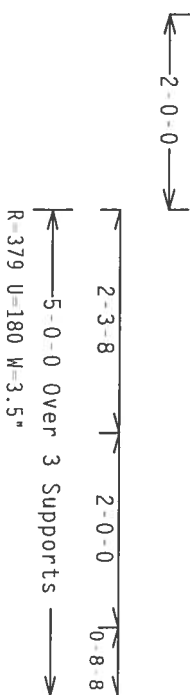


TC LL	20.0 PSF	REF	R487 - - 4037
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCSRA87 06163024
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON -	35554
DUR.FAC.	1.25		
SDAGING	24.0"	JRF -	1SY0487 Z01

JREF - 1SY0A27 Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-2.8 psf, wind BC DL-2.2 psf.

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



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

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

7.24.1230 17

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

Scale = .5" / Ft.

**WARNING:** \*ALL TRUCKS REQUIRE EXPLICIT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BC51 03 (BUILDING COMPONENT CARE INFORMATION), PUBLISHED BY IPI (TRUCKS MADE INSTITUTE, 5891 D'ORNO RD., SUITE 200, HAWTHORN, NJ 07102) AND WCA (WOOD RINGS COUNCIL OF AMERICA, 6500 ENTERPRISE LN, HAWTHORN, NJ 07102) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

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

CONNECTION PLATE IS MADE OF 2018/16GA (W. H/S/K) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATE TO EACH FACE OF TRUSS AND NUTS OUTLIER LOCATED ON TRUSS POSITION PER DRAWING SET.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE WORK COMPLETED AND INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1 2002 SEC.3. A SEAL ON THIS

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAMES E. CORTAZ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the text "STATE OF FLORIDA" at the top and "LICENSE NO. 92212" in the center. Below the license number is the expiration date "EXPIRATION DATE 12/31/04". The seal is stamped over a document with a grid background.

TC LL	20.0 PSF	REF	R487 - - 4038
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCUSR487 06163025
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	35457
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	1SY0M47 201

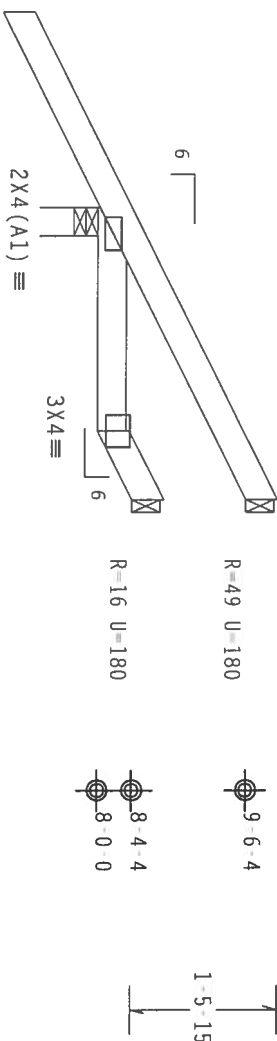
TOP Chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

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=2.8 psf, wind BC DL=2.2  
psf.

Shim all supports to solid bearing.



2'-3" 8" 8" 8"  
3'-0" Over 3 Supports  
R=317 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI 2002(STD)/FBC

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

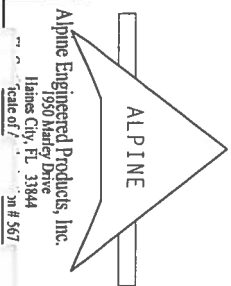
7.24.1230

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

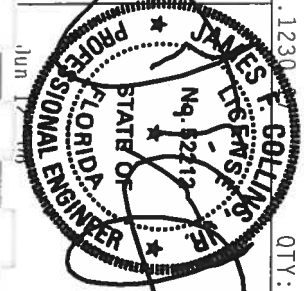
Scale = .5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXISTING GUTTER, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BC51 AND BC52 FOR BUILDING COMPONENT SAFETY AND STABILITY. (SEE PLANS FOR TYPICAL  
DIMENSIONS AND SIZES. SUITE 200, MAINTENANCE, 61.53219) AND WCA (GOOD TRUSS CONCEPT OF  
MAINTENANCE, 61.53219) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,  
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED  
RIGID CEILING.

\*\*IMPORTANT\*\* 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  
DESIGN IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
CONNECTIONS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE  
CONNECTIONS ARE MADE OF 20/19/16GA (W/S/X) ASH 603 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 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.  
James City, FL 33844  
1990 Harley Drive  
Scale of 1/2" = 1'-0"



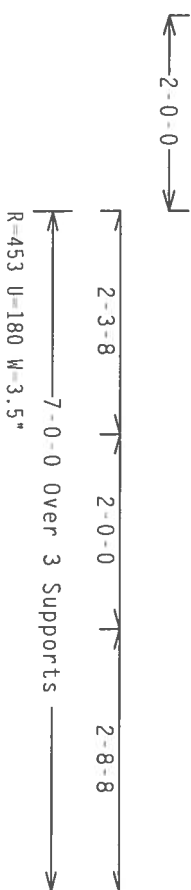
IC LL	20.0 PSF	REF R487 - 4039
TC DL	10.0 PSF	DATE 06/12/06
BC DL	10.0 PSF	DRW HCUR487 06163026
BC LL	0.0 PSF	HC-ENG JB/AP
TOT. LD.	40.0 PSF	SEQN- 35456
DUR. FAC.	1.25	
SPACING	24.0"	

JRFF- 1SY0M7 201



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-2.8 psf, wind BC DL-2.2 psf.

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



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

Scale = .5"/Ft.

4.1230-17 COLLINS, J. A.  
 MEDICAL SCIENCE  
 No. 6212

ALPINE ENGINEERED

BRACING OF TRUSSES.

APPLY

A SEAL ON THIS

RESPONSIBILITY OF THE

JRI-1500R / 201

תאריך: 1/12/2011

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=2.8 psf, wind BC DL 2.2 psf.

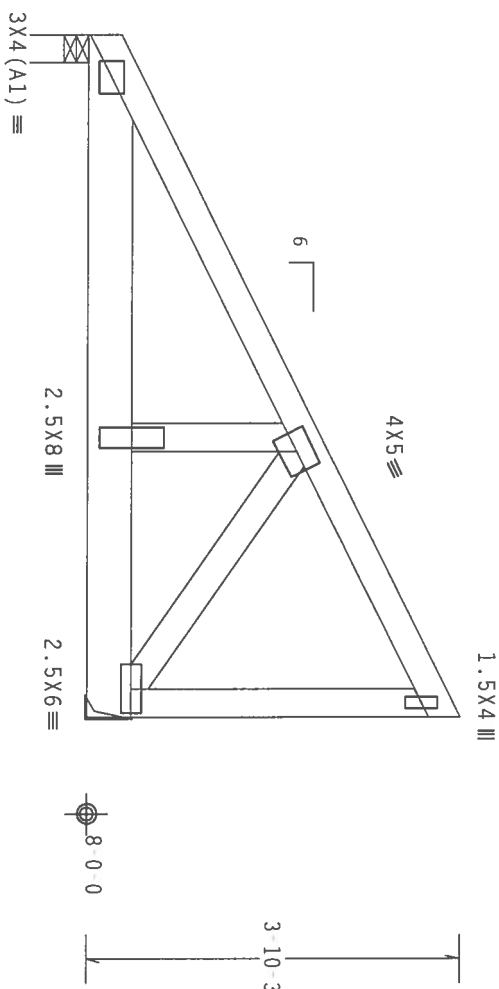
Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS

	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC From	62 PLF at 0.00 to 62 PLF at 7.00
BC From	20 PLF at 0.00 to 20 PLF at 7.00
BC	807 LB Conc. Load at 3.73
BC	536 LB Conc. Load at 5.73

Right end vertical not exposed to wind pressure.

Right end vertical not exposed to wind pressure.



7'-0" Over 2 Supports  
 $R=779$  U=180 W=3.5"  
 $R=1141$  U=244

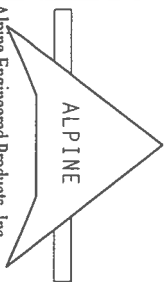
PLT TYP. Wave

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

Cq/RT=1.00(1.25)/10(0) 7.24.1230

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

Scale = .5" / Ft.



Alpine Engineered Products, Inc.

1920 Mauley Drive  
Haines City, FL 33844  
Phone: 813/281-5671

\* **"MAINING"** PRACTICES REQUIRE ENGINEERING, CONSTRUCTION, INSTALLING, AND BRACING REFERENCES TO GC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IFP (INDUSTRIAL PRACTICES), 5805 O'DONORIO DR., SUITE 200, HAWTHORNE, MI 48229, AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), 5000 ENTERPRISE CENTER, HAWTHORNE, MI 48229. PRACTICES RELATE TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PILES, AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

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

ALPINE ENGINEERING

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

### BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI CONNECTOR PLATES ARE MADE OF 2019-T3 ALUMINUM GRADE 6068 (U.S.A.)

ALPINE

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DESIGN. CONNECTION PLATES ARE MADE OF 20/18/16GA (H./I./S./K) ASIM A653 GRADE 40/60 (H. K/H./S) GALV. 3

APPLY TO ALL STEEL. PER DRAWINGS 160A 7

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

A SEAL ON THIS

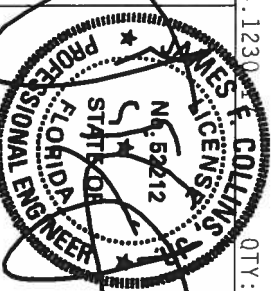
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE

## 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

## RESPONSIBILITY OF THE

א. יצחק אבינו / חלק ב' / תשס"ח



TC LL	20.0 PSF	REF	R487 - - 4041
TC DL	10.0 PSF	DATE	06/12/06
BC DL	10.0 PSF	DRW	HCSUR487 06163037
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	35485
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SY0487 Z01

JRFF - 1SYQ1A7 Z01





## 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 CLIB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

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

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



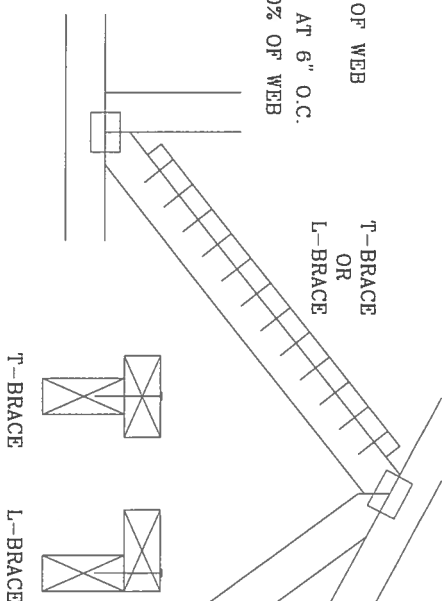
**ALPINE ENGINEERED PRODUCTS, INC.**  
**POMPANO BEACH, FLORIDA**

\*\*\*WARNING\*\*\* THESE RESISTOR EXTRINSIC CABLE FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 963 DINDORF DR. SUITE 200, MADISON, WI 53719, AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TIE CHORD SHALL HAVE PROPERLY ATTACHED STICKER/LOD PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*WARNING\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16ga (U.S./S50 AS20 A663 GRADE) OR 18 GA DESIGN. DISTRIBUTOR PROVIDES TIES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED BY PER ANNEX A3 OF TPI 1-2002 SEC. 3.3 (A), IN 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 ANNEX IV 1 SEC. 2.

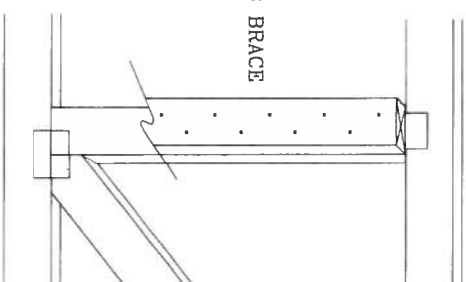
T-BRACING  
OR  
L-BRACING:

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

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

# BEARING BLOCK NAIL SPACING DETAIL

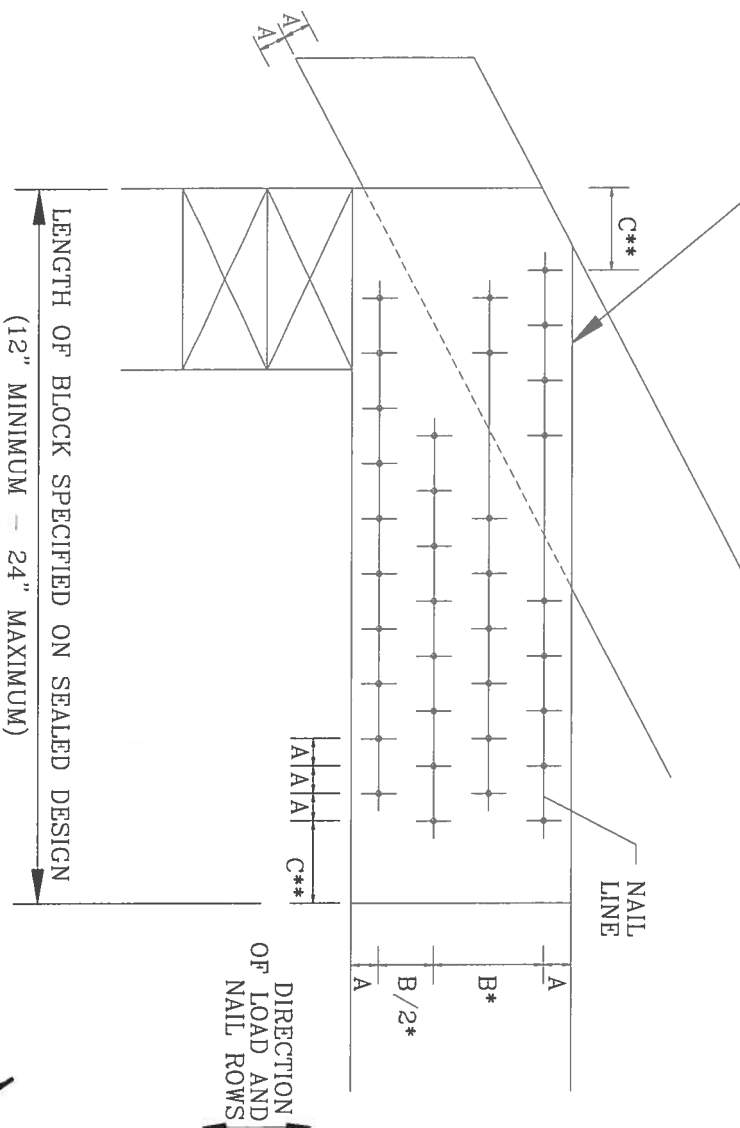
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:  
 • SPACING MAY BE REDUCED BY 50%  
 • SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (F<sub>c</sub>-perp) IS AT LEAST THAT OF THE CHORD.



NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"x2.5")	3	6	9	12	15
10d BOX (0.128"x3")	3	5	7	10	12
12d BOX (0.128"x3.25")	3	5	7	10	12
16d BOX (0.135"x3.5")	3	5	7	10	12
20d BOX (0.148"x4")	2	4	5	6	8
8d COMMON (0.131"x2.5")	3	5	7	10	12
10d COMMON (0.148"x3")	2	4	6	8	10
12d COMMON (0.148"x3.25")	2	4	6	8	10
16d COMMON (0.162"x3.5")	2	4	6	8	10
0.120"x2.5" GUN	3	6	8	11	14
0.131"x2.5" GUN	3	5	7	10	12
0.120"x3.0" GUN	3	6	8	11	14
0.131"x3.0" GUN	3	5	7	10	12

## MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	
8d BOX (0.113"x2.5")	3/4"	1 3/8"	1 3/4"	
10d BOX (0.128"x3")	7/8"	1 5/8"	2"	
12d BOX (0.128"x3.25")	7/8"	1 5/8"	2"	
16d BOX (0.135"x3.5")	7/8"	1 5/8"	2 1/8"	
20d BOX (0.148"x4")	1"	1 7/8"	2 1/4"	
8d COMMON (0.131"x2.5")	7/8"	1 5/8"	2"	
10d COMMON (0.148"x3")	1"	1 7/8"	2 1/4"	
12d COMMON (0.148"x3.25")	1"	1 7/8"	2 1/4"	
16d COMMON (0.162"x3.5")	1"	2"	2 1/2"	
0.120"x2.5" GUN	3/4"	1 1/2"	1 7/8"	
0.131"x2.5" GUN	7/8"	1 5/8"	2"	
0.120"x3.0" GUN	3/4"	1 1/2"	1 7/8"	
0.131"x3.0" GUN	7/8"	1 5/8"	2"	

THIS DRAWING REPLACES DRAWING B139 AND CNBRGK0699

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

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

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ALPINE CONNECTOR PLATES ARE MADE OF 60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222/1223/1224/1225/1226/1227/1228/1229/1230/1231/1232/1233/1234/1235/1236/1237/1238/1239/1240/1241/1242/1243/1244/1245/1246/1247/1248/1249/1250/1251/1252/1253/1254/1255/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