

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 0 278  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID:1TYV8228Z0129103627

Truss Fabricator: Anderson Truss Company  
Job Identification: 10-020--Fill in later ISAAC/ADAMS -- , \*\*  
Truss Count: 16  
Model Code: Florida Building Code 2007 and 2009 Supplement  
Truss Criteria: FBC2007Res/TPI-2002(STD)  
Engineering Software: Alpine Software, Version 9.02.  
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 7-05 -Closed

## Notes:

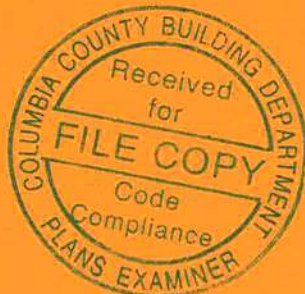
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: A1101505-GBLLETIN-

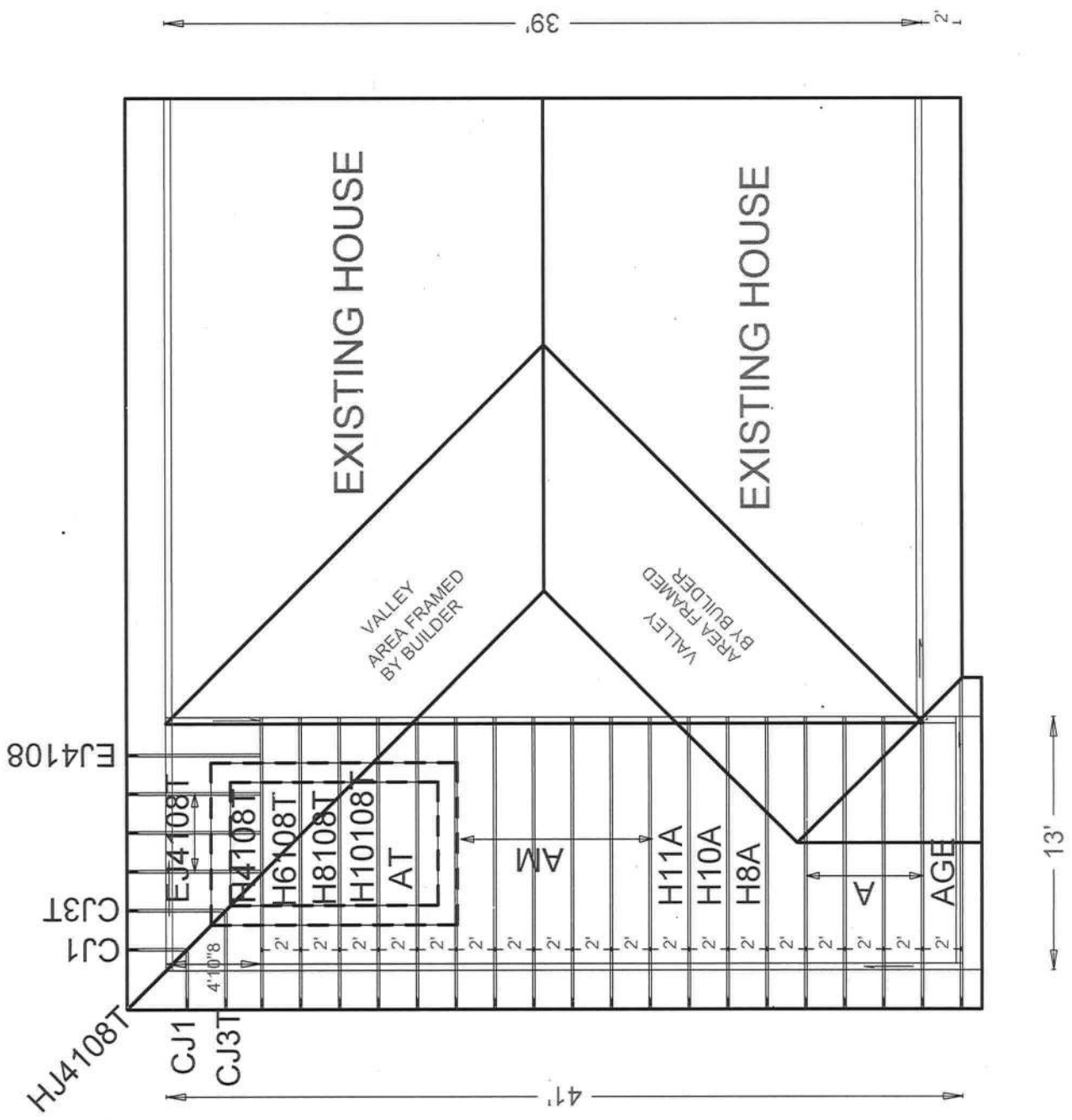
Seal Date: 01/29/2010

-Truss Design Engineer-  
Doug Fleming  
Florida License Number: 66648  
1950 Marley Drive  
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	62181--A		10029001	01/29/10
2	62182--AGE		10029002	01/29/10
3	62183--H8A		10029003	01/29/10
4	62184--H10A		10029004	01/29/10
5	62185--H11A		10029005	01/29/10
6	62186--AM		10029007	01/29/10
7	62187--H4108T		10029001	01/29/10
8	62188--AT		10029002	01/29/10
9	62189--H10108T		10029003	01/29/10
10	62190--H8108T		10029004	01/29/10
11	62191--H6108T		10029005	01/29/10
12	62192--CJ3T		10029006	01/29/10
13	62193--CJ1		10029008	01/29/10
14	62194--HJ4108T		10029006	01/29/10
15	62195--EJ4108T		10029007	01/29/10
16	62196--EJ4108		10029008	01/29/10



Office Copy



ISAAC CONSTRUCTION/ ADAMS

JOB DESCRIPTION: Fill in later  
/ : ISAAC/ADAMS

JOB NO:  
10-020

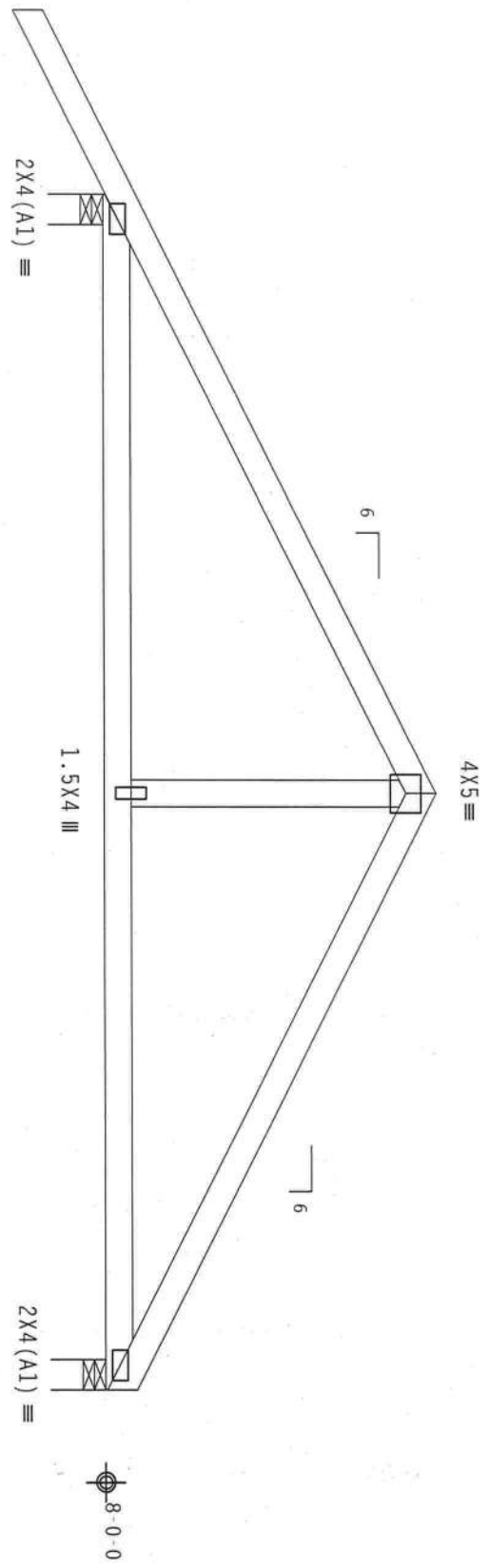
PAGE NO:  
1 OF 1

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 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCPI(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.  
Bottom chord checked for 10.00 psf non-concurrent live load.

Wind reactions based on MWFRS pressures.  
Deflection meets L/240 live and L/180 total load.



2-0-0 →

6-6-0

13-0-0 Over 2 Supports

6-6-0

R=681 U=185 W=4"

RL=121/-136

R=523 U=128 W=4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)

FT/RT=10%(0%)/0(0)

9.02.00

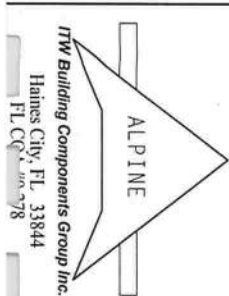
QTY:4

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

Scale = .5"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6580 ENTERPRISE LANE, MOHAWK, MI 48851) FOR SAFETY PRACTICES PRIOR TO PREVENTING INJURY OR DEATH. UNLESS OTHERWISE SPECIFIED, 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. THE BCG, 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, BY A/RP/A AND TPI. THE BCG DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY A/RP/A) AND TPI. THE BCG CONNECTOR PLATES ARE MADE OF 2018/166A (W/J/S/X) ASTM A503 GRADE 40/50 (W, K/H, S/S) 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 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	R8228 - 62181
TC DL	10.0 PSF	DATE	01/29/10
BC DL	10.0 PSF	DRW	HCUSR8228 10029001
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	40.0 PSF	SEON	83818
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1TYV8228Z01

110 mph wind, 15.00 ft mean hgt., ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

$$DL=5.0 \text{ psf}, I_w=1.00 \text{ GCPI}(+/-)=0.18$$

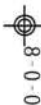
Wind reactions based on MWFRS pressures.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

Bottom chord checked for 10.00 psf non-concurrent live load.  
Deflection meets L/240 live and L/180 total load.

d.



Design Crit: FBC2007Res/TPI-2002(STD)

FT/RT=10%(0%)/0(0)	9.02.00
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Scale = .375"/Ft.

DOUGLAS  
LICENSE  
No. 66648

NOT

TYPE OF

29

(

DUR. FAC. 1.25  
SPACING 24.0"

JREF - 1TYV8228Z01



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

Roof overhang supports 2.00 psf soffit load.

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

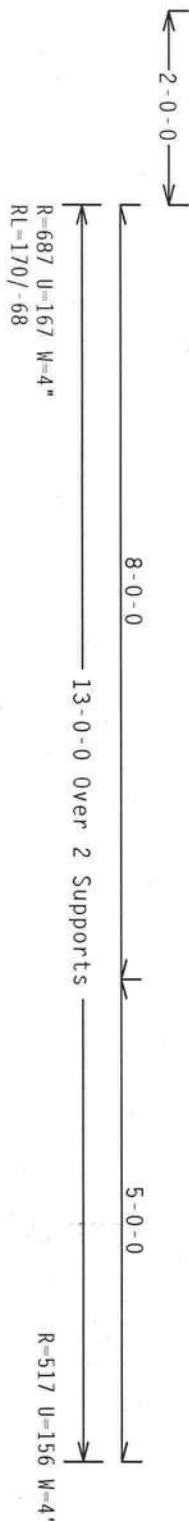
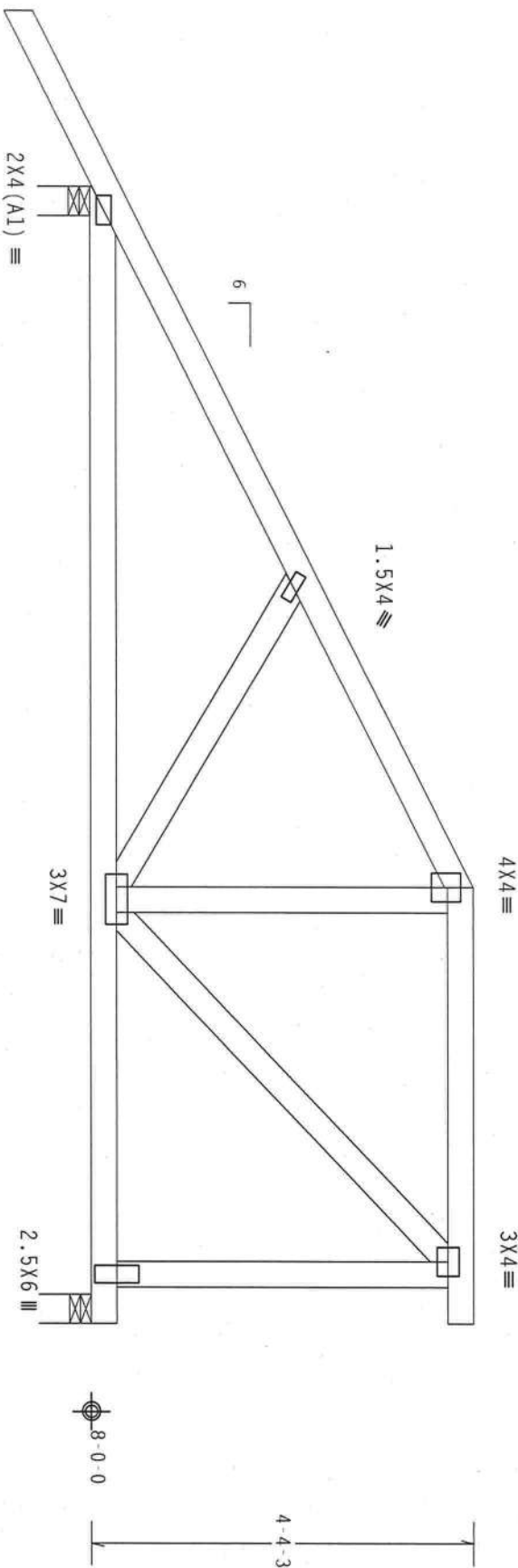
MMFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI} (+/-)=0.18$

Wind reactions based on MMFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=10%(0%)/0(0)

9.02.00

QTY:1

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

Scale =.5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, MI 48071) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR, (WOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING).

**\*\*IMPORTANT\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS IN COMPLIANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. THE BCG DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. THE BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/N/SS/S) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

NTW Building Components Group Inc.  
Haines City, FL 33844  
FL CCR 000078



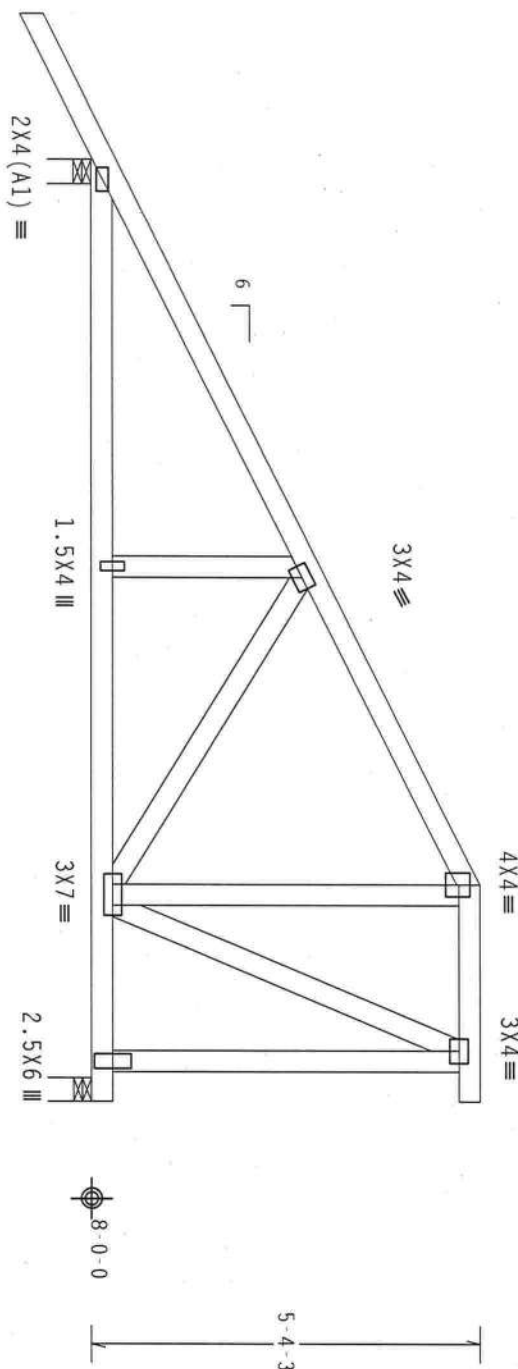
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BC DL	10.0 PSF	DRW	HCUSR8228 10029003
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	40.0 PSF	SEQN-	83830
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1TYV8228Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 1w=1.00 gcpl(+/-)-0.18

Wind reactions based on MMFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets  $L/240$  live and  $L/180$  total load.


$$\frac{3-0-0}{}$$

R=517 U=167 W=4"

R=517 U=167 W=4"

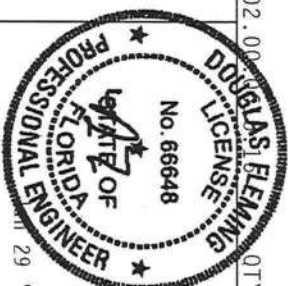
Scale = .375"/Ft.

9.02.00  
DOUGLASS FLEMING  
LICENSE  
No. 66648  
REG.  
#218  
6300  
CLASS  
MAYBE

**NOT**

**ITW Building Components Group Inc**

FLCQ 778



FL/-/4/-/4/-/R/-		Scale=.375"/ft.
TC LL	20.0 PSF	REF R8228 - 62184
TC DL	10.0 PSF	DATE 01/29/10
BC DL	10.0 PSF	DRW HCU5R8228 10029004
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 83841
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1TYV8228201

THIS WAS PREPARED FROM COMPUTER INPUT (LWALS & DIMENSIONAL) SUBMITTED BY INDO AIR.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 GCpl(+/-)=0.18

Wind reactions based on MMFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.  
Deflection meets L/240 live and L/180 total load.

Deflection meets L/240 live and L/180 total load.


$$FT/RT=10\%(0\%)/0(0)$$

QTY:1


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

Scale = .375" / Ft.

2.00  
DOUGLAS FLEMING  
LICENSE  
No. 66648  
QTY

TC LL	20.0 PSF
TC DL	10.0 PSF
PC DL	10.0 PSF

REF	R8228 - 62185
DATE	01/29/10
DDMMYY	01/29/10



ALPINE

**ITW Building Components Group Inc.**

Haines City, FL 33844

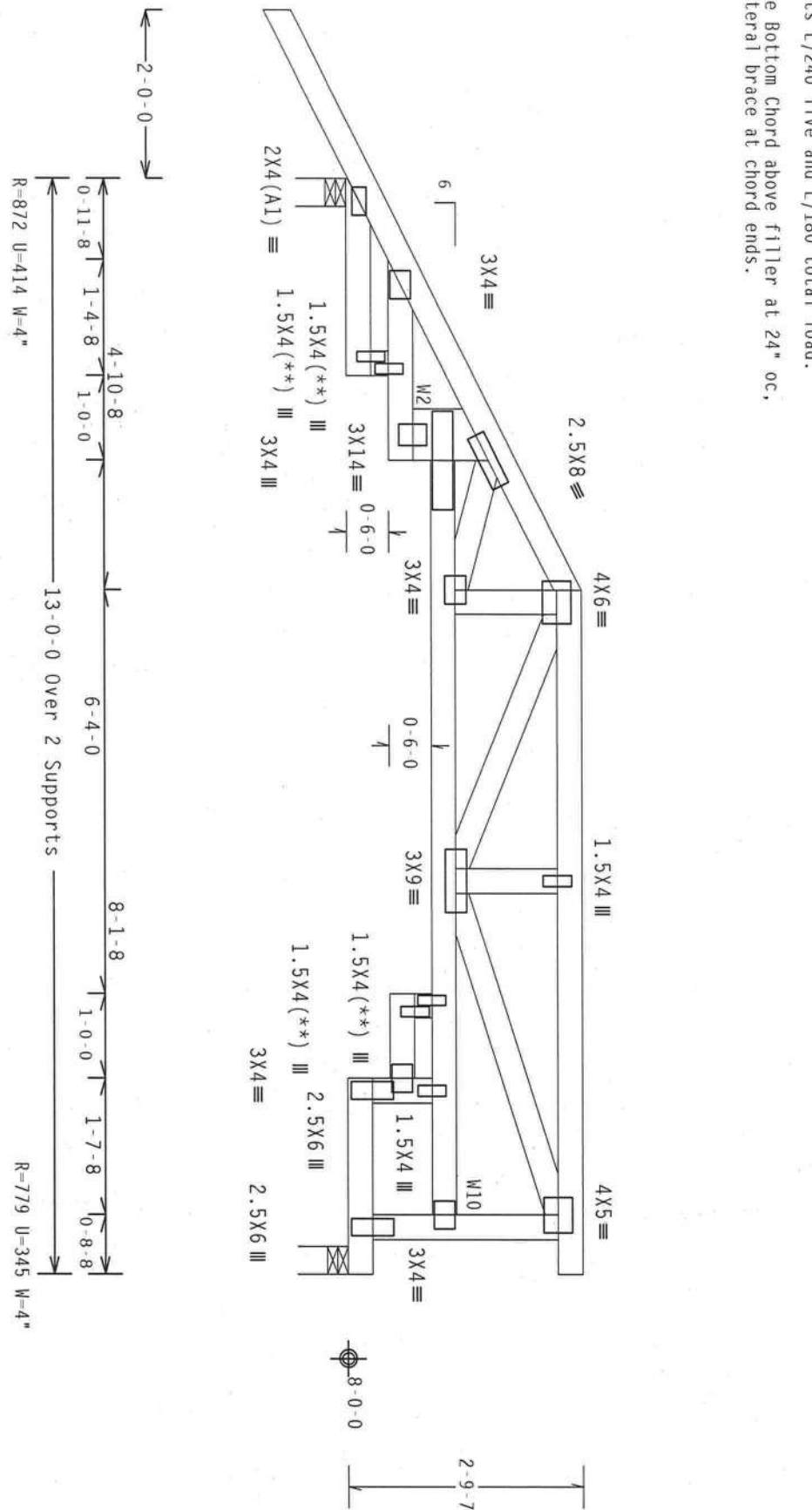
FLCC 78





Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W2 2x8 SP #1 Dense:  
:M10 2x4 SP #2 Dense:  
Roof overhang supports 2.00 psf soffit load.  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
Deflection meets L/240 live and L/180 total load.  
Laterally brace bottom chord above filler at 24" oc, including a lateral brace at chord ends.

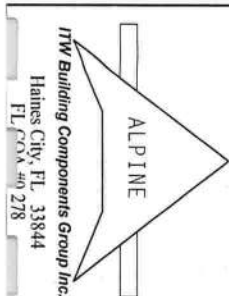
(\*\*) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.  
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
#1 hip supports 4-10-8 jacks with no webs.



PLT TYP. Wave Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=10%(0%)/0(0) 9.02.00  
QTY:1 FL/-/4/-/1/-/R/-  
Scale =.5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES1 (BUILDING COMPONENT SAFETY INFORMATION), PROVIDED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COMPANY OF AMERICA, 2500 ENTERPRISE LANE, FARMINGTON, CT, 06031) FOR SAFETY PRACTICES FROM PREPARING THESE TRUSSES. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND SPACING 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. THE RCG, 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, BY ATRPA AND TPI. THE RCG DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ATRPA) AND TPI. THE RCG CORRELATION PLATES ARE MADE OF 20/18/16GA (GALV/SS/AL) ASH 6051 GRADE 40/60 (K, K/H, SS) 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 ANSI/TPI 1 SEC. 2.



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TC DL	10.0 PSF	DATE	01/29/10
BC DL	10.0 PSF	DRW	HCUSR8228 10029001
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT.LD.	40.0 PSF	SEQN-	84286
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TYV8228Z01

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 : W2 2x6 SP #2:

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

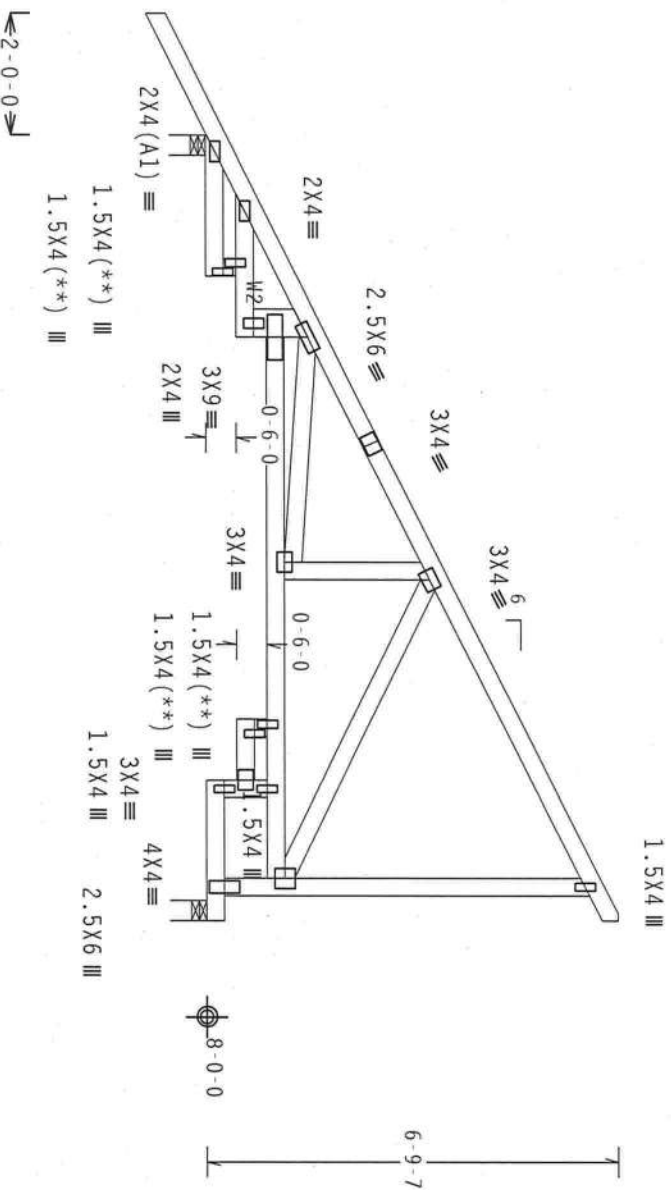
Laterally brace Bottom Chord above filler at 24" oc,  
including a lateral brace at chord ends.

(\*\*) 4 plate(s) require special positioning. Refer to scaled  
plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not  
located within 4.50 ft from roof edge, CAT II, EXP C, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf, 1w=1.00 GCpi(+/-)-0.18

Wind reactions based on MWFRS pressures.

MWFRS loads based on trusses located at least 7.50 ft. from roof  
edge.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=10%(0%)/0(0)

9.02.00

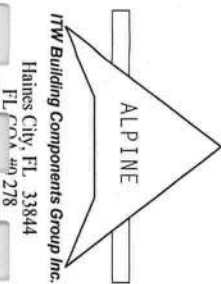
QTY:1

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

Scale = .3125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO RES1 (BUILDING COMPONENT SAFETY INFORMATION). PROHIBITED BY TPI (TRUSS PLATE INSTITUTE), 218  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 2500  
INTERSTATE BLVD., SUITE 100, FORT WORTH, TX 76104) FOR SAFETY PRACTICES. TRUSSES ARE DESIGNED TO BE USED  
OVER EXISTING ROOFING. ROOFING 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. ITW BCG, INC. SHALL NOT  
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSS IN CONFORMANCE WITH  
TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY ACPA, AND TPI. ITW BCG  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD NATIONAL DESIGN SPEC. BY ACPA, AND TPI. ITW BCG  
CONNECTION PLATES ARE MADE OF 2019/1604 (W/H/S/S/R) ASTM A563 GRADE 40/50 (W, K/H, S/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  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

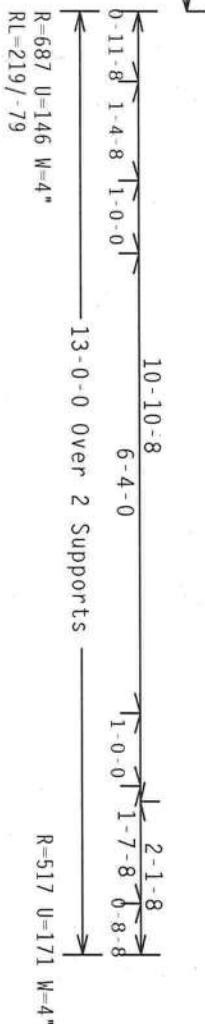


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TC DL	10.0 PSF	DATE	01/29/10
BC DL	10.0 PSF	DRW	HCU8R8228 10029002
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT. LD.	40.0 PSF	SEON	84202
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1TYV8228201

(\*\*) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP C, wind TD DL=5.0 psf, wind BC DL=5.0 psf 1w=1.00 gcpl(+/-)=0.18


Deflection meets  $L/240$  live and  $L/180$  total load.



Scale = .375"/Ft.

DOUGLAS FLEMING  
LICENSE  
No. 66648

TC LL	20.0 PSF	REF	R8228- 62189
TC DL	10.0 PSF	DATE	01/29/10
RC DI	10.0 PSF	DBM	W01E0228 10026003



**ITW Building Components Group Inc**

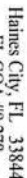
Haines City, FL 33844

FL 2001-000278

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

$$4 \times 6 \equiv 1.5 \times 4 \pmod{12}$$


BUILDING DESIGNER PER ANSI/API 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 62190
TC DL	10.0 PSF	DATE	01/29/10
BC DL	10.0 PSF	DRW	HCUSR8228 10029004
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT.LD.	40.0 PSF	SEQN-	84239
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TYV8228Z01

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

Deflection meets  $L/240$  live and  $L/180$  total load.





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

Roof overhang supports 2.00 psf soffit load.

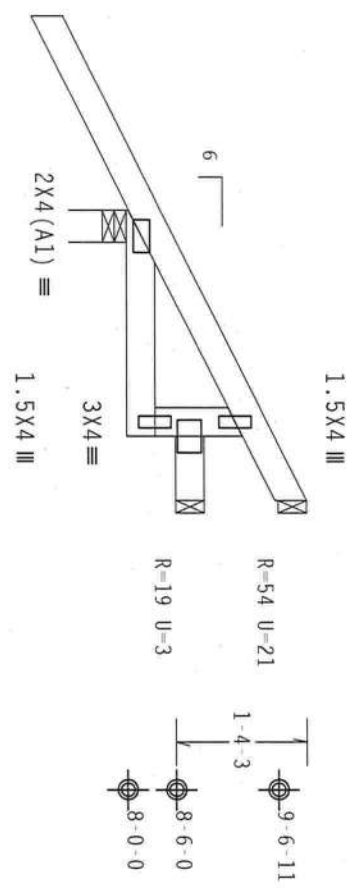
Bottom chord checked for 10.00 psf non-concurrent live load.

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 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. W=1.00 gcpl(+/-)=0.18

Wind reactions based on MMFRS pressures.

Deflection meets L/240 live and L/180 total load.



3'-0-0" over 3' Support  
R=317 U=86 W=4"  
RL=85/-49

PLT TYP. Wave

Design Cn't: FBC2007Res/TPI-2002(STD)  
FT/RT=10%(0%)/0(0)

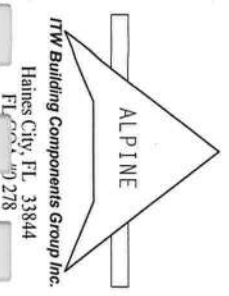
9.02.00

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

Scale =.5"/ft.

**\*\*WARNING\*\*** BRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD ROSS COMPANY OF AMERICA, 6500 ENTERPRISE LANE, HADISON, NJ 07731) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TO THE CONTRARY, ALL MATERIALS 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. THE RCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEFLECTION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE RCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 2002 NATIONAL DESIGN SPEC. BY AISC AND TPI. THE RCG CONNECTOR PLATES ARE MADE OF 20/19/166A (W/J/S/S) ASTM A563 GRADE 40/60 (4, K/H-S5) 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 ANSI/TPI 1 SEC. 2.



TC LL		20.0 PSF	REF R8228- 62192
TC DL		10.0 PSF	DATE 01/29/10
BC DL		10.0 PSF	DRW HCUR8228 10029006
BC LL		0.0 PSF	HC-ENG JB/DF
TOT. LD.		40.0 PSF	SEQN- 83620
DUR. FAC.		1.25	
SPACING		24.0"	JREF- 1TYV8228Z01

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

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

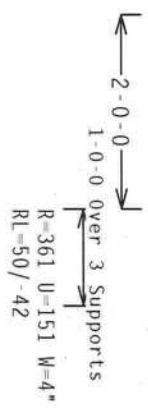
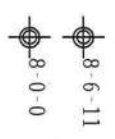
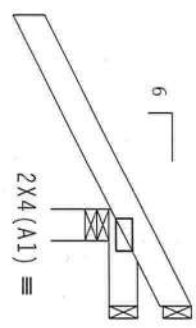
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located  
anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0  
psf, lw=1.00 gcpl(+/-)=0.18

Wind reactions based on MMFRS pressures.

Deflection meets L/240 live and L/180 total load.

R= 110 Rw=72 U=103



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=10%(0%)/0(0)

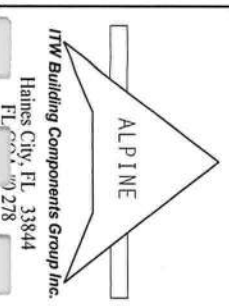
9.02.00

QTY: 2 FL/-/4/-/1/R/-

Scale =.5"/Ft.

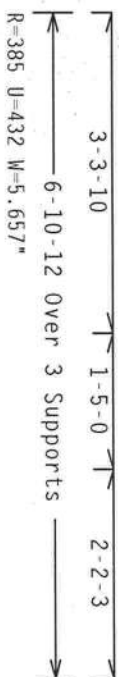
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS CONDUCT OF AMERICA), 2580 ENTERPRISE LANE, HADISON, MI 48429 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORDS, ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE BUILDING OR PERSONS FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OF FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. BY ACPA) AND TPI. THE BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. THE BCG 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 ANSI/TPI 1 SEC. 2.




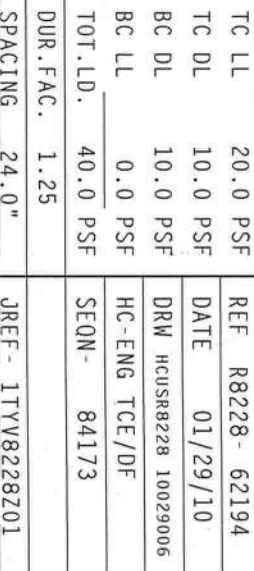
TC LL	20.0 PSF	REF	R8228- 62193
TC DL	10.0 PSF	DATE	01/29/10
BC DL	10.0 PSF	DRW	HCUSR8228 10029008
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	40.0 PSF	SEQN-	83624
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1TYV8228Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpl(+/-)=0.18



Scale = .5" / ft.

DRAWING INDICATE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TROSS COMPONENT OF EACH SPOON. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AHS/THI 1 SEC. 2.



**ALPINE**

**ITW Building Components Group Inc.**  
**Haines City, FL 33844**  
**FL 800.499.278**

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

Roof overhang supports 2.00 psf soffit load.

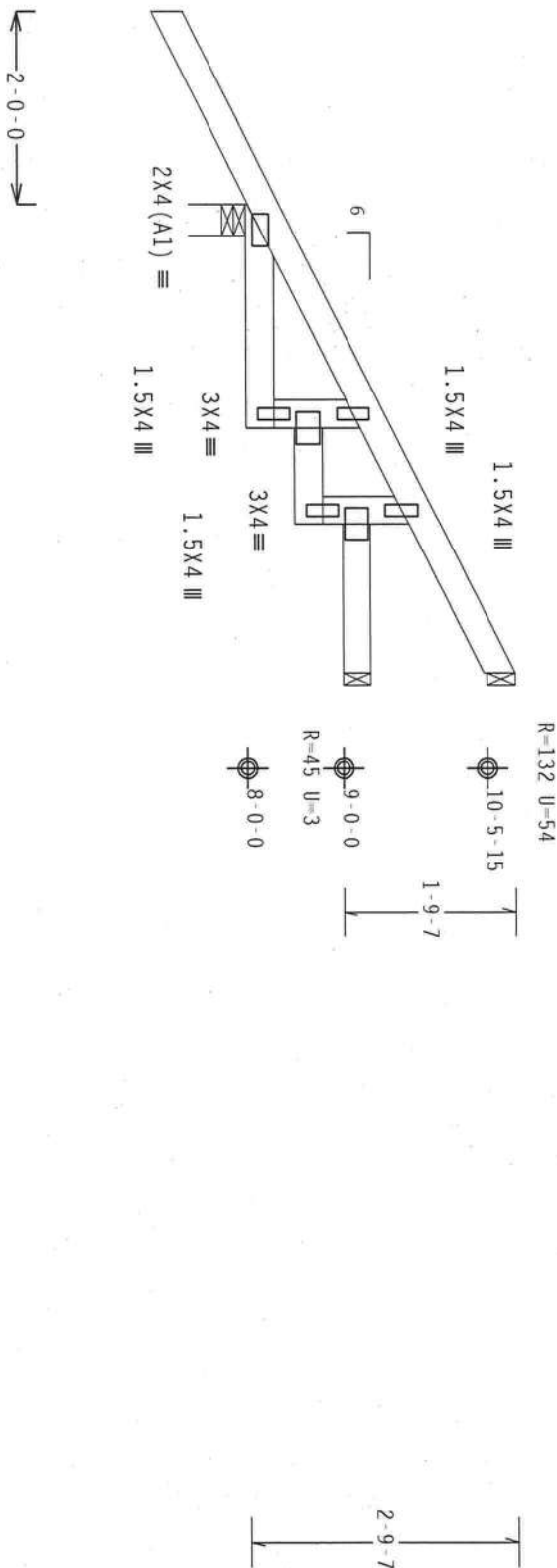
Bottom chord checked for 10.00 psf non-concurrent live load.

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 7-05, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf,  
wind BC DL=5.0 psf, IW=1.00 GCPI(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Cnt: FBC2007Res/TPI-2002(STD)  
FT/RT=10%(0%)/0(0)

9.02.00

QTY:3

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

Scale =.5"/Ft.

**\*\*WARNING\*\*** BRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 10500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE TASKS. UNLESS OTHERWISE INDICATED FOR CONCRETE SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED FLAT CELLING.

**\*\*IMPORTANT\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR FAILURE OF THE TRUSS IN CONFORMANCE WITH THE DESIGN. THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, SHIPPING, INSTALLING, A BRACING OF BRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AISC AND TPI. THE BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTOR OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

NTW Building Components Group Inc.

Haines City, FL 33844

FL 00000000 278



TC LL	20.0 PSF	REF	R8228- 62195
TC DL	10.0 PSF	DATE	01/29/10
BC DL	10.0 PSF	DRW	HCUSR8228 10029007
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT.LD.	40.0 PSF	SEQN-	84179
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TYV8228Z01

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

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

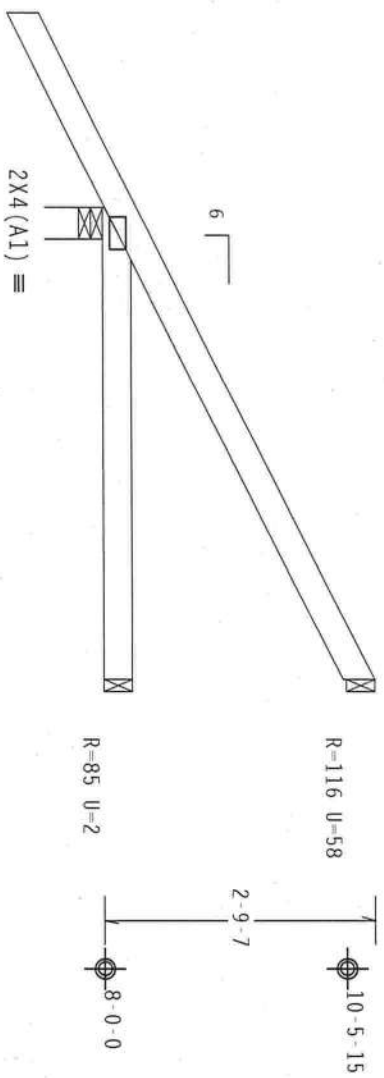
MFERS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP(+/-)=0.18$

Wind reactions based on MFERS pressures.

Deflection meets L/240 live and L/180 total load.

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" →  
← 4'-10'-8" Over 3 Supports →  
R=373 U=88 W=4"  
RL=117/-57

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=10%(0%)/0(0)

9.02.00

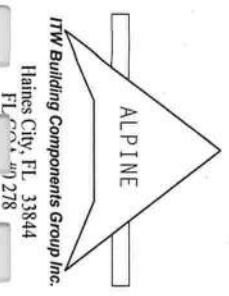
QTY:1

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

Scale =.5"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 2180 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND TPI (TRUSS PLATE INSTITUTE), 2180 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE LATEST EDITIONS OF THESE PUBLICATIONS. THE USER 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. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSSES, TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 2018/166A (40/50) ASTM A563 GRADE 40/50 (4, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



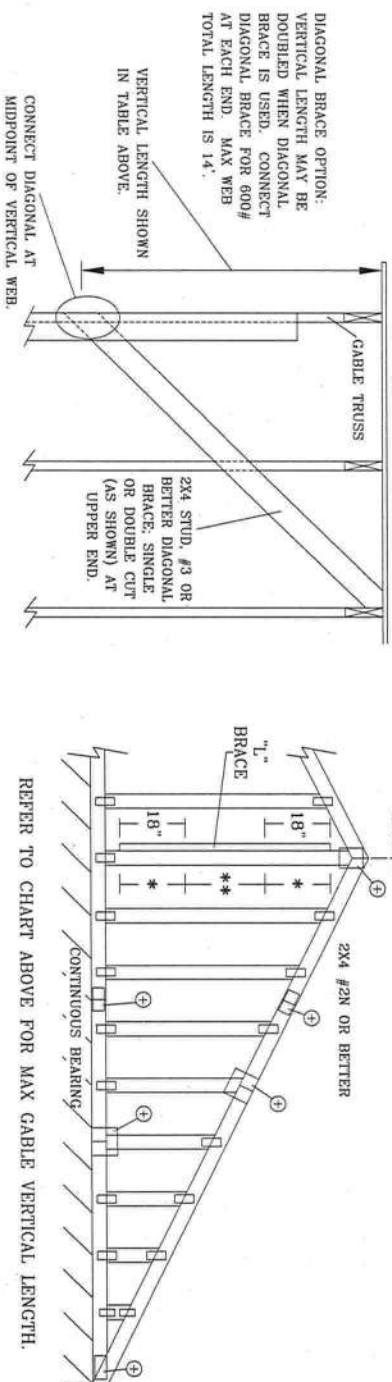
FL/-/4/-/-/R/-		Scale =.5"/Ft.	
TC LL	20.0 PSF	REF	R8228- 62196
TC DL	10.0 PSF	DATE	01/29/10
BC DL	10.0 PSF	DRW	HCUSR8228 10029008
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT.LD.	40.0 PSF	SEON-	84183
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TYV8228Z01



ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

GABLE STUD REINFORCEMENT DETAIL

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



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



\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow  
BCSI (Building Components Safety Information, by TPI and WTC) for safety practices prior to performing  
these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord  
shall have properly attached structural panels and bottom chord shall have proper bracing installed per BCSI  
sections B3 & B7. See this job's general notes page for more information.



REF ASCE7-05-CAB11015  
DATE 1/1/09  
DRWG A11015050109  
MAX. TOT. LD. 60 PSF  
MAX. SPACING 24.0"

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2.5X4
GREATER THAN 11' 6"	3X4

ATTACH EACH "L" BRACE WITH 10d NAILS.  
(0.128"x3" min)  
\* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C.  
IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.  
\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C.  
IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.  
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB  
MEMBER LENGTH.

GABLE TRUSS DETAIL NOTES:  
LIVE LOAD DEFLECTION CRITERIA IS L/240.  
PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER  
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).  
GABLE END SUPPORTS LOAD FROM 4' 0"  
OUTLOOKERS WITH 2' 0" OVERHANG, OR 12"  
PLYWOOD OVERHANG.

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

Earth City, MO 63045

