

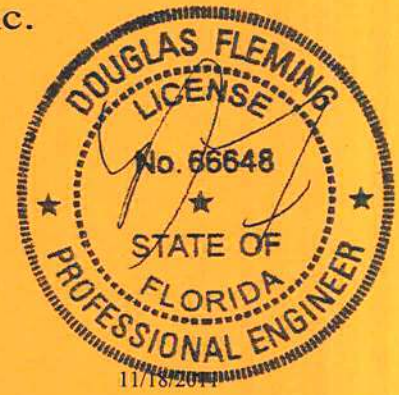
ITW Building Components Group, Inc.

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:1UH5487-Z0118111122



Truss Fabricator: Anderson Truss Company

Job Identification: 11-216--F111 in later LITTLE & WILLIAMS/COOPER -- , **

Truss Count: 15

Model Code: Florida Building Code 2007 and 2009 Supplement

Truss Criteria: FBC2007Res/TPI-2002(STD)

Engineering Software: Alpine Software, Version 10.03.

Structural Engineer of Record: The identity of the structural EOR did not exist as of 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: HCUSR487

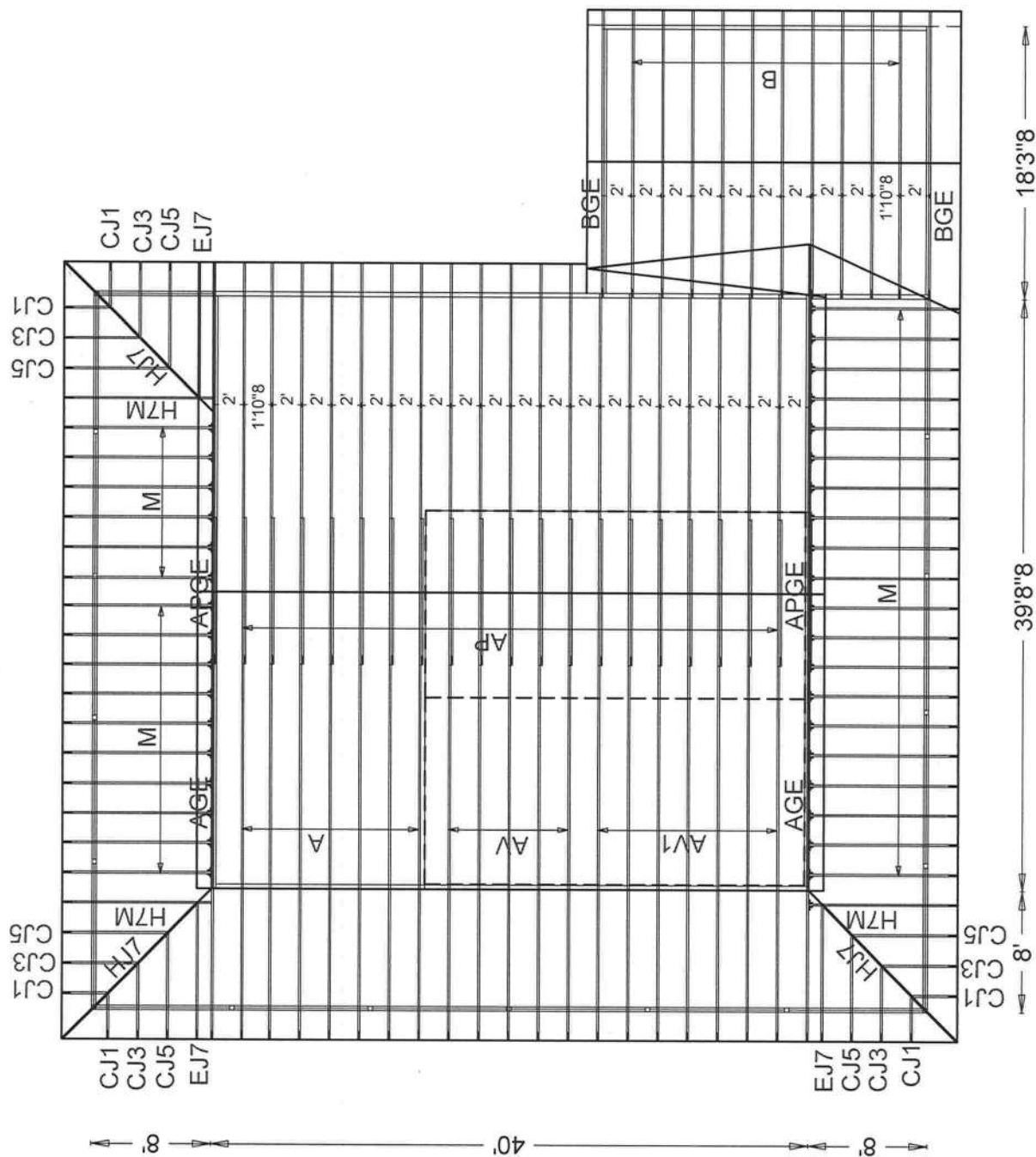
Douglas Fleming
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-A1101505-GBLLETIN-PB120-

#	Ref	Description	Drawing#	Date
1	37278--A		11322005	11/18/11
2	37279--AGE		11322006	11/18/11
3	37280--AV		11322007	11/18/11
4	37281--AV1		11322008	11/18/11
5	37282--B		11322001	11/18/11
6	37283--BGE		11322009	11/18/11
7	37284--CJ1		11322010	11/18/11
8	37285--CJ3		11322002	11/18/11
9	37286--CJ5		11322011	11/18/11
10	37287--EJ7		11322003	11/18/11
11	37288--HJ7		11322012	11/18/11
12	37289--H7M		11322013	11/18/11
13	37290--M		11322004	11/18/11
14	37291--AP		11322014	11/18/11
15	37292--APGE		11322015	11/18/11





LITTLE & WILLIAMS/COOPER

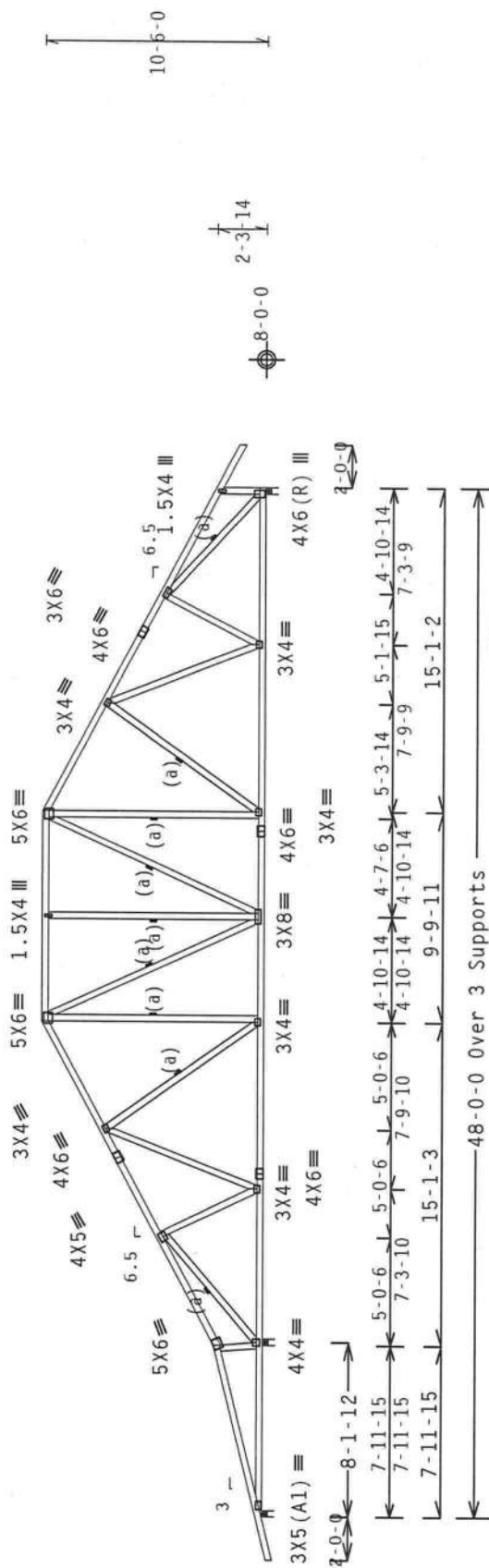
11110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=405 U=67 W=3.5" R=
RL=242/-199

Design Crit: FBC2007Res/TPI-2002(STD)

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

Scale = .125"/Ft.

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

03.04.0601.16 -

0.01 (0.01)

FT/RT=10% (0%)

DESIGN OF 10

10

PLT TYP. Wave

100%

NOTES ON THIS SHEET
FOR INCLUDING INSTALLERS.

NG® READ AND FOLLOW
HIS DESIGN TO ALL COM

••IMPORTANT••

Trusses require extreme care in fabricating, naming, shipping, installing and bracing. Refer to the latest edition of BC3I (Building Component Safety Information, by TPI and MICA) for practices prior to performing these functions. Installers shall provide temporary bracing per BC3I. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall have Bracing Installed per BC3I sections 83, 87 or B10, as applicable.

ITW Building Components group Inc. (IWBGCO) shall not be responsible for any deviation from this drawing or failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Truss Drawing. Trusses are to be installed per drawings 1000-2 for standard plate positions. A seal on the truss is required and covered by drawings 1000-2 for standard plate positions. The manufacturer's responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's general notes page: IWBGCO: www.ibgco.com; TPI: www.tpi.net; MICA: www.sbcindus.com.

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Safety Information, by TPI and HNTB. HNTB shall provide temporary bracing and shoring for the existing structure. HNTB shall provide permanent lateral restraints for the new structure. HNTB shall be responsible for any deviations from the design shown on the drawings. HNTB shall be responsible for any deviations from the design shown on the drawings. HNTB shall be responsible for any deviations from the design shown on the drawings.

care in fabricating.
of BCSI (Building Co-
nstruction) functions.
op chord shall have
rigid ceiling.
per BCSI sections

Group Inc. (ITWBCS)
in conformance
plates to each face
Refer to drawing
this drawing, indicating
the design shown. The
Building Designer, Peter
www.itwbc.com

Trusses require follow the latest practices prior to installation. Unless noted otherwise, all shall have a protection that have bracing.

ALPINE
ITW Building Components
Haines City, FL 33844

(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - AGE)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpl(+/-)-0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Roof overhang supports 2.00 psf soffit load.

Gable end supports 8" max rake overhang.

See DWGS A11015050109 & GBLLETIN0109 for more requirements.

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

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

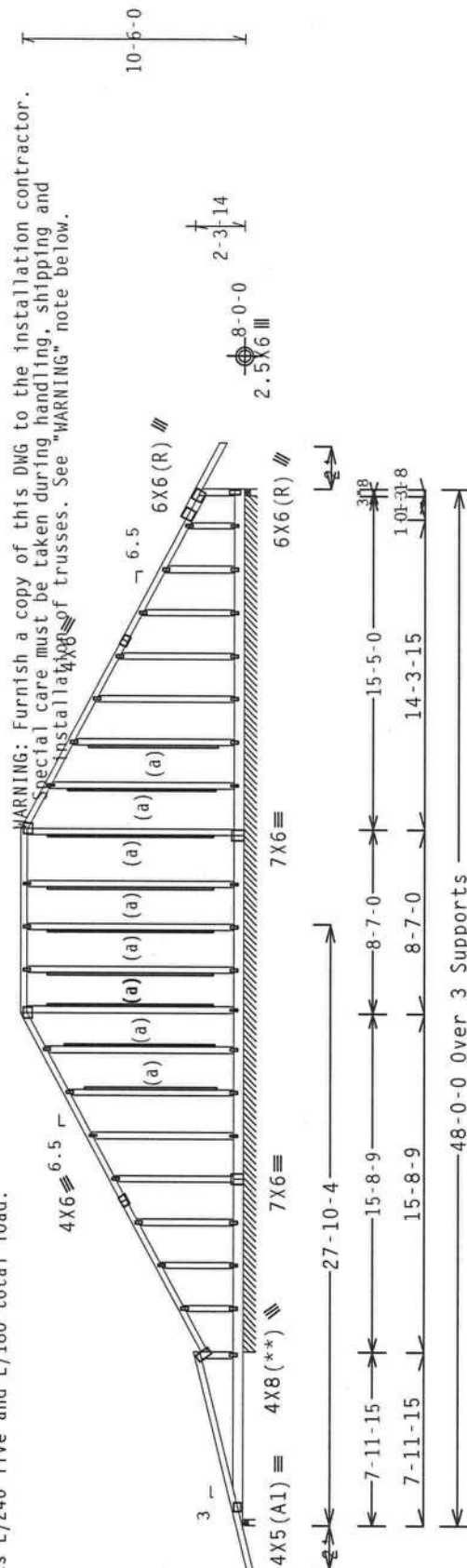
Deflection meets L/240 live and L/180 total load.

Special loads

TC- From	TC- To	Plate Dur.Fac.=1.25
61 pif at -2.00 to	61 pif at 8.00	
31 pif at 8.00 to	31 pif at 14.92	
31 pif at 14.92 to	31 pif at 23.71	
30 pif at 23.71 to	30 pif at 32.29	
31 pif at 32.29 to	31 pif at 38.94	
63 pif at 38.94 to	63 pif at 41.08	
63 pif at 41.08 to	63 pif at 46.76	
63 pif at 46.76 to	63 pif at 47.71	
63 pif at 47.71 to	63 pif at 50.14	
4 pif at -2.00 to	4 pif at 0.00	
20 pif at 0.00 to	20 pif at 7.06	
20 pif at 7.06 to	20 pif at 38.94	
20 pif at 38.94 to	20 pif at 48.00	
5 pif at 48.00 to	5 pif at 50.14	
PLB- 707.53 lb Conc. Load at (7.06, 8.04)		
PLB- 297.59 lb Conc. Load at (9.06, 8.04)		
(15.06, 8.04), (17.06, 8.04), (19.06, 8.04), (21.06, 8.04), (23.06, 8.04)		
(25.06, 8.04), (27.06, 8.04), (28.94, 8.04), (30.94, 8.04), (32.94, 8.04)		
(34.94, 8.04), (36.94, 8.04), (38.94, 8.04)		

Right end vertical not exposed to wind pressure.

5X6= Bottom chord checked for 10.00 psf non-concurrent live load.



R-487 U=79 W=3.5" R-193 PLF U=21 PLF W=39-8-8

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)

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

Scale = .125"/Ft.

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

QTY: 10.08.04.06Q.16

PLT TYP. Wave

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the

latest edition of BCSI Building Component Safety Information, by TPI and NICA for details and

practices prior to performing these functions. Installers shall provide temporary bracing per BCSI

Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord

shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint

shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

IW Building Components Group Inc. (IWBCG) shall not be responsible for any deviation from this

any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing or

bracing. The user of this design shall be responsible for the proper use of the design and for

details, unless noted otherwise. Refer to drawing 1600-2 for standard plate positions. A seal on

drawing or cover page listing this drawing. Indicates acceptance of professional engineering

responsibility solely for the design shown. The suitability and use of this design for any structure is

the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's

general notes page: TPI-BCG: www.twbcg.com; TPI: www.tpinet.org; NICA: www.sbcindustry.com;

ICC: www.iccsafe.org

ALPINE

IW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278



TC LL	20.0 PSF	REF R487--	37279
TC DL	10.0 PSF	DATE	11/18/11
BC DL	10.0 PSF	DRW	HCUSR487 11322006
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	248683
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UH5487_Z01

(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - AV)

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, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, $I_w=1.00$ Gcpl (+/-)-0.18

Roof overhang supports 2.00 psf soffit load.

(a) Continuous lateral bracing equally spaced on member.

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

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

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

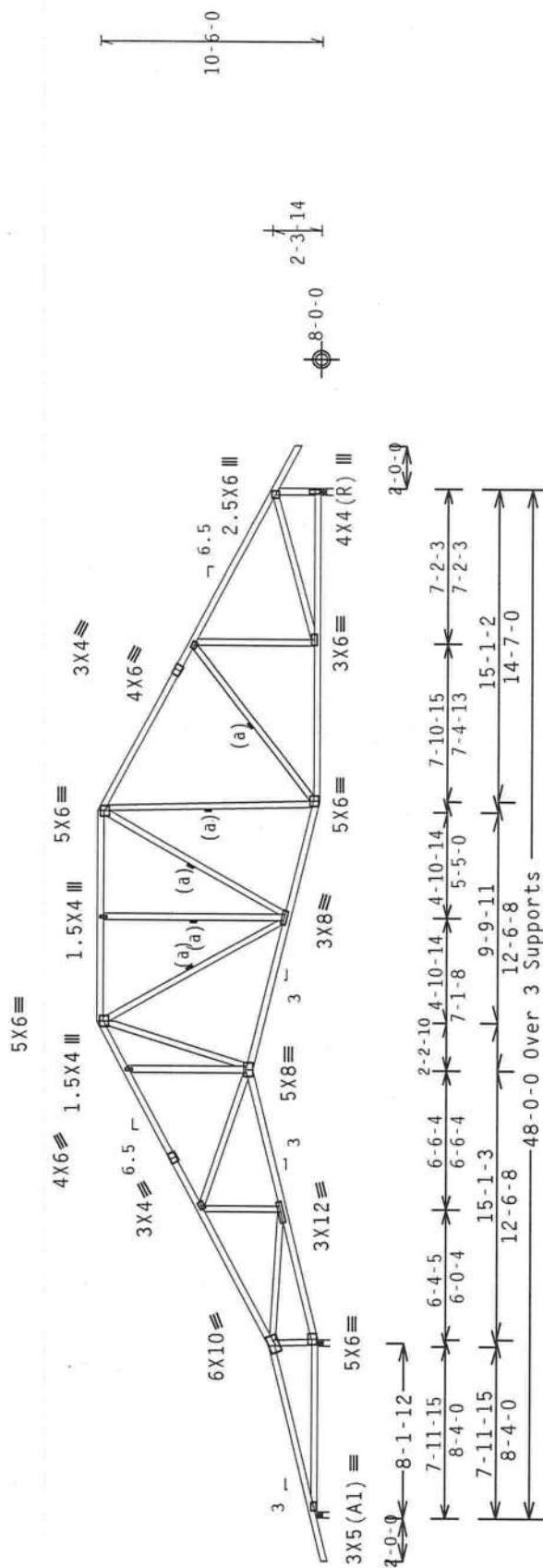
MMFRS loads based on trusses located at least 15.00 ft. from roof edge.

Wind loads and reactions based on MMFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R-259 U=88 W=3.5"
RL-241/-198 R=2239 U=0 W=3.5"

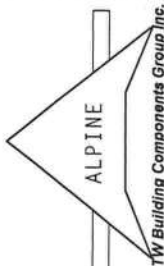
Design Crit: FBC2007Res/TPI-2002 (STD)

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

PLT TYP. Wave

FL/-4/-/R/-

Scale = .125"/Ft.

 ALPINE iW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by IPI and MICA) for details and practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses are not to be used as a permanent structure. Trusses shall be braced in accordance with BCSI. Trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. iW Building Components Group Inc. (iWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in accordance with this design. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec.2. For more information see: This job's pages. IPI-BCSI: www.iwbcg.com; IPI: www.tolost.org; MICA: www.sciindustry.com; ICC: www.iccsafe.org		QUANTITY: 10.00 04 0603.18 No. 66648		TC LL 20.0 PSF	REF R487-- 37280
					TC DL 10.0 PSF	DATE 11/18/11
					BC DL 10.0 PSF	DRW HCUSR487 11322007
					BC LL 0.0 PSF	HC-ENG DF/DF
					TOT.LD. 40.0 PSF	SEQN- 248713
				DUR.FAC. 1.25		
				SPACING 24.0"		JREF- 1UH5487_Z01

(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - AVI)

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

Roof overhang supports 2.00 psf soffit load.

(a) Continuous lateral bracing equally spaced on member.

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

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

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

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

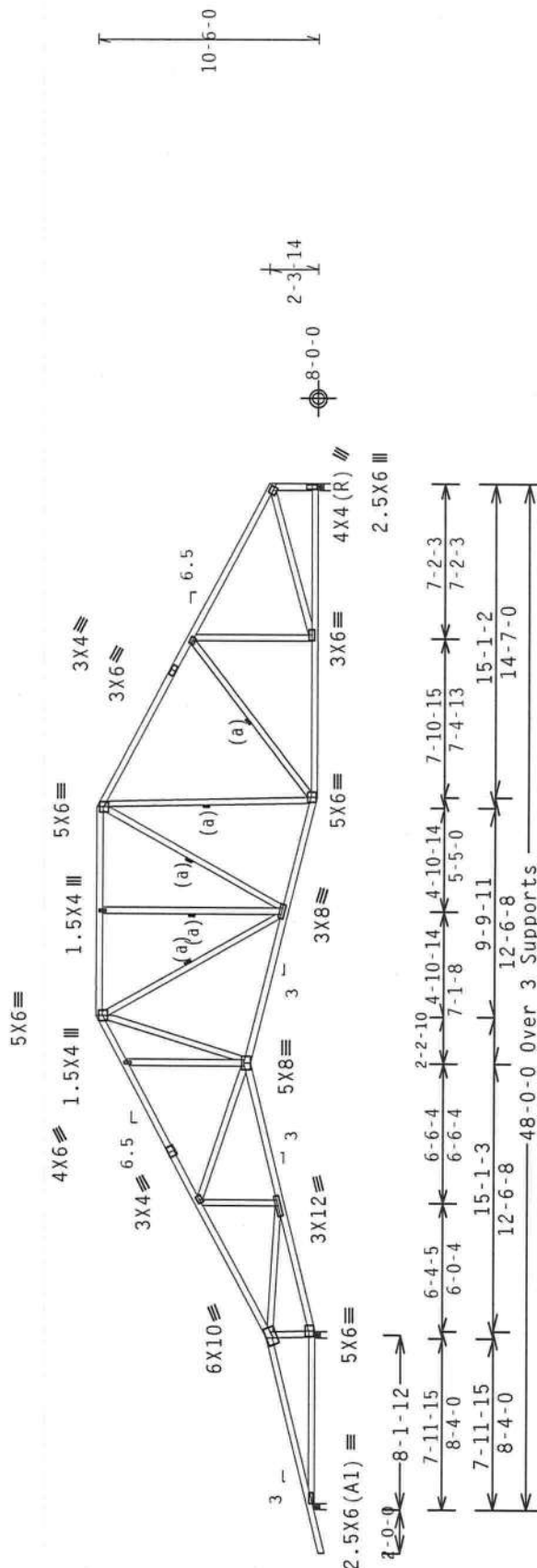
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

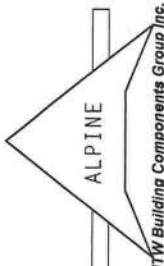


R-259 U=85 W=3.5"
RL=212/-182 R=2243 U=0 W=3.5"

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

PLT TYP. Wave

Scale = .125"/Ft.

 ALPINE iTW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WICA) for best practices prior to performing these functions. Installers shall provide temporary bracing per BCSI details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the bottom chord shall have a properly attached structural sheathing and bottom chord bracing shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. iTW Building Components Group Inc. (iTWBCG) shall not be responsible for any deviation from the design shown on this drawing. The truss shall be installed in accordance with ANSI/TPI 1-2009 and all bracing of trusses. Apply plates to each face of truss and position as shown above and on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 sec.2. For more information see: This job's ICC: www.iccsafe.org; IIR-BCSI: www.iir-bcsi.org; TPI: www.tpinet.org; WICA: www.sbcindustry.com		QTY 7	FL/-/4/-/-/R/-	TC LL	20.0 PSF	REF R487--	37281
			10.06.04.0602.16	No. 66848	TC DL	10.0 PSF	DATE	11/18/11
					BC DL	10.0 PSF	DRW	HCUSR487 11322008
					BC LL	0.0 PSF	HC-ENG	DF/DF
					TOT.LD.	40.0 PSF	SEQN-	248727
				DUR.FAC.	1.25			
				SPACING	24.0"		JREF-	1UH5487_Z01

(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - B)

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

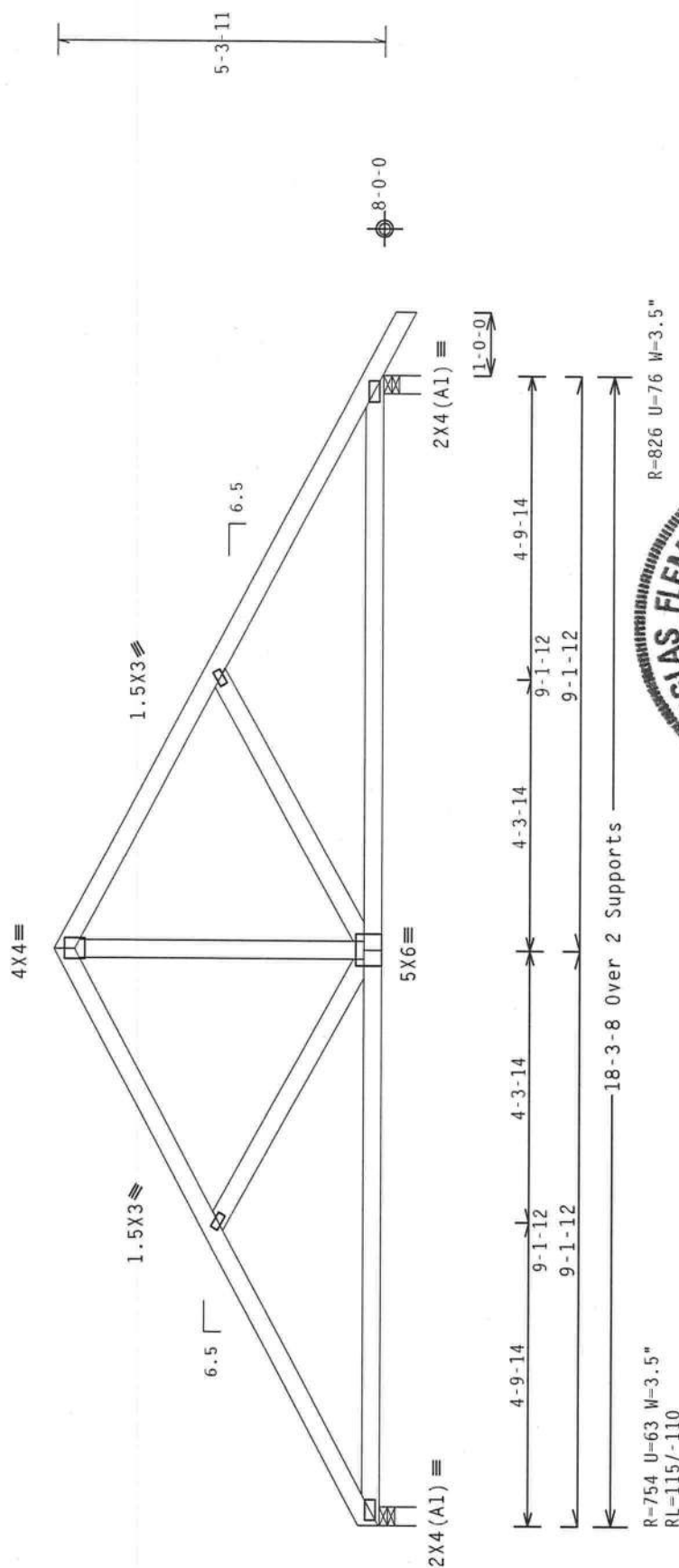
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpt (+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

Wind loads and reactions based on MWFRS with additional C&C member design.

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

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



R=754 U=63 W=3.5"
RL=115/-110

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

Scale = .375"/Ft.

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

0.03.04.0601.16 QTY

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

design of it.

PLT TYP. Wave

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0278

No. 66648

STATE OF FLORIDA

PROFESSIONAL ENGINEER

7/18/2011

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Be sure to follow the latest edition of BCSP (Building Component Safety Information, by IPI and WICA) for truss practices prior to performing these functions. Installers shall provide temporary bracing per BCSP. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/IPI 1, or for handling, shipping, installing and bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint. Trusses shall be braced in accordance with drawings 1000-2 or standard plate positions. A seal on the drawings is required to certify that the drawings are the original drawings. ITWBCG shall not be responsible for the responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/IPI 1 Sec.2. For more information see: This Job's general notes page; ITW-BCG: www.itwbcg.com; IPI: www.tpinat.org; WICA: www.abcfindustry.com; ICC: www.iccsafe.org

(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - CJI)

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

110 mph wind, 15.00 ft mean ht, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpl(+/-)=0.18

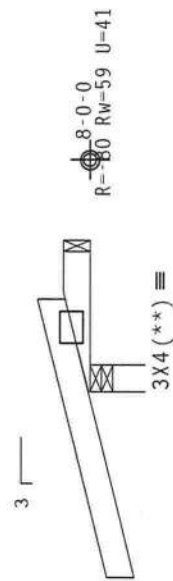
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Wind loads and reactions based on MWFRS with additional C&C member design.

Roof overhang supports 2.00 psf soffit load.

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



1-6-0 Over 2 Supports
R=300 U=111 W=3.5"
RL=24

PLT TYP. Wave

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

Scale =.5" /Ft.



TC LL	20.0 PSF	REF	R487--	37284
TC DL	10.0 PSF	DATE	11/18/11	
BC DL	10.0 PSF	DRW	HCUSR487	11322010
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT.LD.	40.0 PSF	SEQN-	248630	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UH5487_Z01	

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabrication, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information) for details on bracing and installation practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint web shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 1004-2 for standard plate positions. A seal on the bottom chord of the truss shall be provided. The seal shall be placed on the bottom chord of the truss. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; NICA: www.sbcindustry.com; ICC: www.iccsafe.org

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

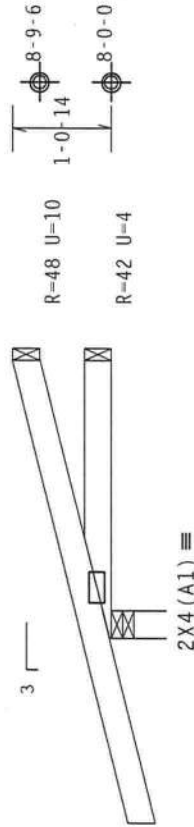
Roof overhang supports 2.00 psf soffit load.

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

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

Wind loads and reactions based on MWFRS with additional C&C member design.

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.



R=309 U=86 W=3.5"
RI=34

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

PLT TYP. Wave

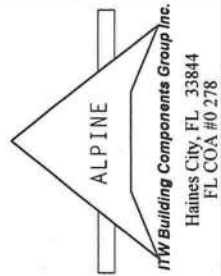
FL/-/4/-/-/R/-/-

Scale = .5"/Ft.

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trosses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSP (Building Component Safety Information, by IPI and MICA) for all properties and/or to performing the installations. Install and provide a temporary bracing system until the permanent bracing is installed. The contractor shall provide a temporary bracing system until the permanent bracing is installed. The contractor shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint bracing shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.

TJV Building Components Group Inc. (LH40CQ) shall not be responsible for any deviation from the design or construction of trusses, joists, rafters, hangers, plates, girders, beams, columns, wall studs, floor joists, roof sheathing, etc., if any failure to build the truss in accordance with ANSI/TPI 1 for handling, shipping, installation, erection, bracing of trusses. Apply plates to each face of truss and position as shown above and on the following drawings. The manufacturer shall be responsible for providing all materials, components, fasteners, details, unless noted otherwise. Refer to drawings L60A-2 for standard plate positions. A seal on the bottom chord of the truss shall indicate acceptance of professional engineering responsibility or cover page listing this drawing. The suitability and use of this design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec.2. For more information see: This job's specification or contact the manufacturer at: www.tjv.com or info@tjv.com.
LH40BQ: www.lh40c.com; TPI: nnpintest.org; NRC: www.ncscsa.org



TC LL	20.0	PSF	REF R487-- 37285
TC DL	10.0	PSF	DATE 11/18/11
BC DL	10.0	PSF	DRW HCURS487 11322002
BC LL	0.0	PSF	HC-ENG DF/DF *
TOT.LD.	40.0	PSF	SEQN- 248633
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UH5487_Z01

(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - CJS)

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

Roof overhang supports 2.00 psf soffit load.

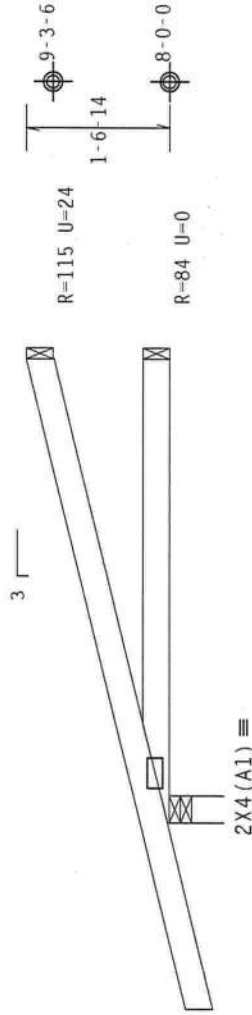
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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 B, wind TC DL-5.0 psf, wind BC DL-5.0 psf, IW=1.00 GCPI(+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design.

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-368 U=79 W=3.5"
RL=43

PLT TYP. Wave

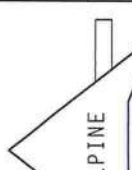
Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

Scale = .5" / Ft.

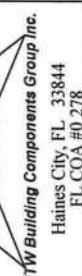
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R487 -- 37286
DATE	11/18/11
DRW	HCUSR487 11322011
HC-ENG	DF/DF
SEQN	248636
JREF	1UH5487_Z01

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Components Safety Institute) Manual for proper practices prior to performing these functions. Installers shall provide temporary bracing per the details, unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the details, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal of the drawing office is required for this drawing. The seal of the professional engineering structure shall be the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; NICA: www.sbctindustry.com; ICC: www.iccsafe.org



ALPINE

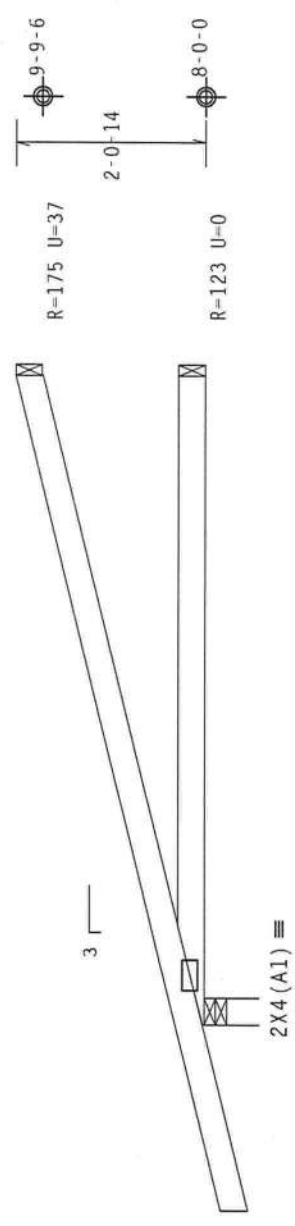


ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278



(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - EJ7)

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.
Deflection meets L/240 live and L/180 total load.
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED Bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpl (+/-)=0.18
Wind loads and reactions based on MMFRS with additional C&C member design.
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
7-0-0 Over 3 Supports
R-439 U=78 W=3.5"
RL=53



Design Crit: FBC2007Res/TPI-2002 (STD)

PLT TYP. Wave	FL / - / 4 / - / - / R / -	Scale = .5" / Ft.
Top chord 2x4 SP #2 Dense	TC LL	20.0 PSF
Bot chord 2x4 SP #2 Dense	TC DL	10.0 PSF
Roof overhang supports 2.00 psf soffit load.	BC DL	10.0 PSF
Bottom chord checked for 10.00 psf non-concurrent live load.	BC LL	0.0 PSF
Deflection meets L/240 live and L/180 total load.	TOT.LD.	40.0 PSF
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED Bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpl (+/-)=0.18	DUR.FAC.	1.25
Wind loads and reactions based on MMFRS with additional C&C member design.	SPACING	24.0"
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.	REF	R487 -- 37287
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.	DATE	11/18/11
	DRW	HCUSR487 11322003
	HC-ENG	DF/DF
	SEQN	248639
	JREF	1UH5487_Z01

(11-216--Fill in later LITTLE & WILLIAMS/COOPER --, ** - HJ7)

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

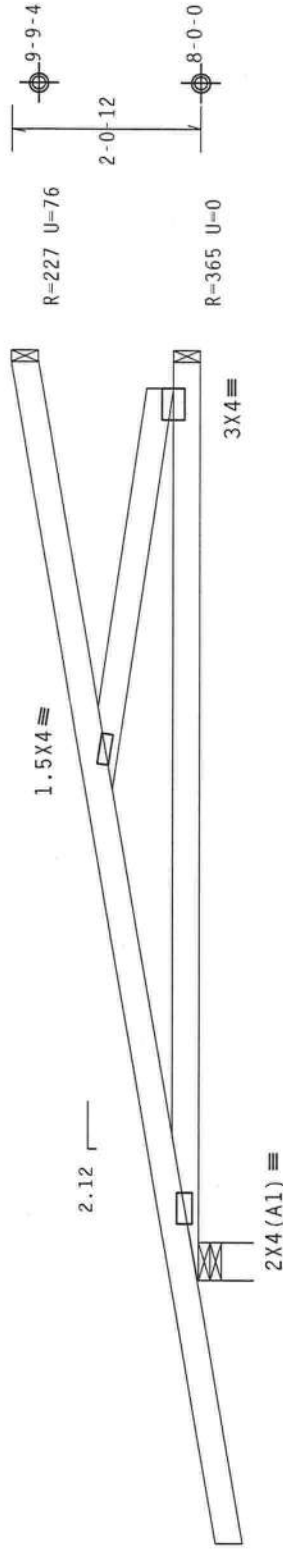
Hipjack supports 7-0-0 setback jacks with no webs.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)-0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

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



PLT TYP. Wave

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

Scale = 5" / Ft.

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

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R487 -- 37288
DATE	11/18/11
DRW	HCUSR487 11322012
HC-ENG	DF/DF
SEQN	248645
JREF	1UH5487_Z01

****IMPORTANT****
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety) Information, B7 (TPI and NICA) for best practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, Top Chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Detail. Do not use any other fasteners or materials without the express written consent of ITWBCG. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: ITN-BCG: www.itnbcg.com; TPI: www.tpinet.org; NICA: www.sbcindustry.com; ICC: www.iccsafe.org



ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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.

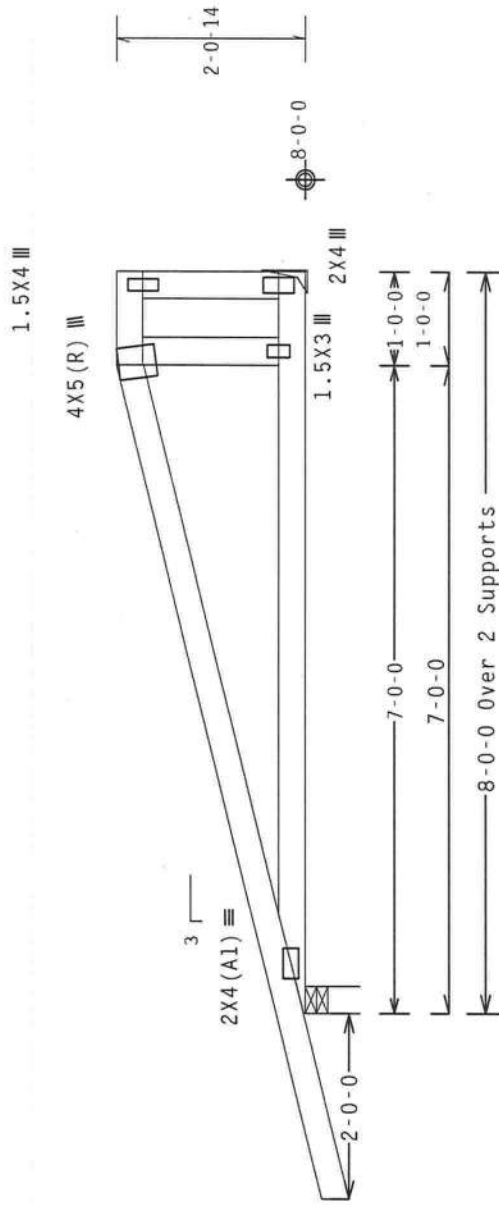
#1 hip supports 7-0-0 jacks with no webs.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpt (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

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



R=537 I=81 W=3.5"

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

PLT TYP. Wave

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

Scale = .5"/Ft.

TC LL	20.0	PSF	REF R487 -- 37289
TC DL	10.0	PSF	DATE 11/18/11
BC DL	10.0	PSF	DRW HCUSR487 11322013
BC LL	0.0	PSF	HC-ENG DF/DF
TOT.LD.	40.0	PSF	SEQN- 248648
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UH5487_Z01

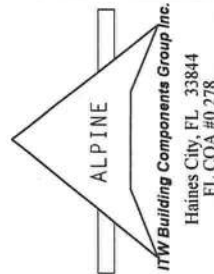


****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET.**

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Brosses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI Building Component Safety Information, by IPI and WICA for general practices prior to performing these functions. Installers shall provide temporary bracing per BCSI Section 8.0. The design shown herein is intended as a guide only. All drawings and specifications shall have a properly attached RCSI ceiling. Locations shown for permanent lateral restraint will have bracing installed per BCSI sections 83, 87 or B10, as applicable.

The Building Components Group Inc. (IBCG) shall not be responsible for any deviation from this design. The building owner and the building designer are responsible for providing all details, including bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joining Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drafting, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/AP1 Sec.2. For more information see: This job's general notes page; TH-BG6; www.tbceg.com; IPI: wdipnstn.org; WICA: www.tbcsinfo.org;



(11-216--Fill in later LITTLE & WILLIAMS/COOPER -- ** - M)

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.

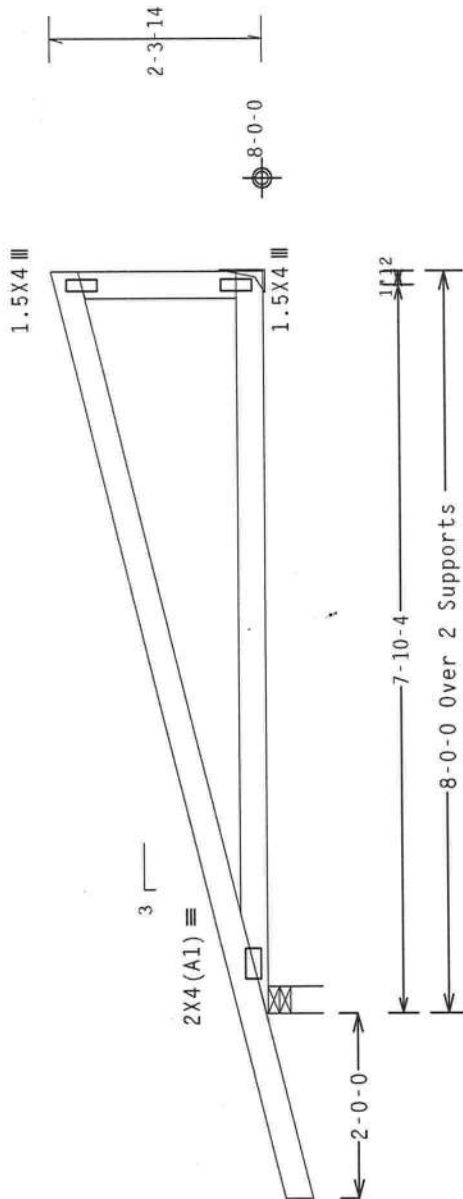
Deflection meets L/240 live and L/180 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1 (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

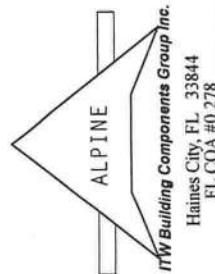
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=477 U=78 W=3.5"
RL=58

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

PLT TYP. Wave



Scale = 5" / Ft.

TC LL	20.0 PSF	FL / - / 4 / - / R / -	REF	R487 -- 37290
TC DL	10.0 PSF		DATE	11/18/11
BC DL	10.0 PSF		DRW	HCUSR487 11322004
BC LL	0.0 PSF		HC-ENG	DF/DF *
TOT.LD.	40.0 PSF		SEQN	248642
DUR.FAC.	1.25			
SPACING	24.0"		JREF	1UH5487_Z01

(11-216--Fill) in later LITTLE & WILLIAMS/COOPER --, ** - AP)

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

110 mph wind, 19.83 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere
in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. IW=1.00
6Cp1(+/-)=-0.18

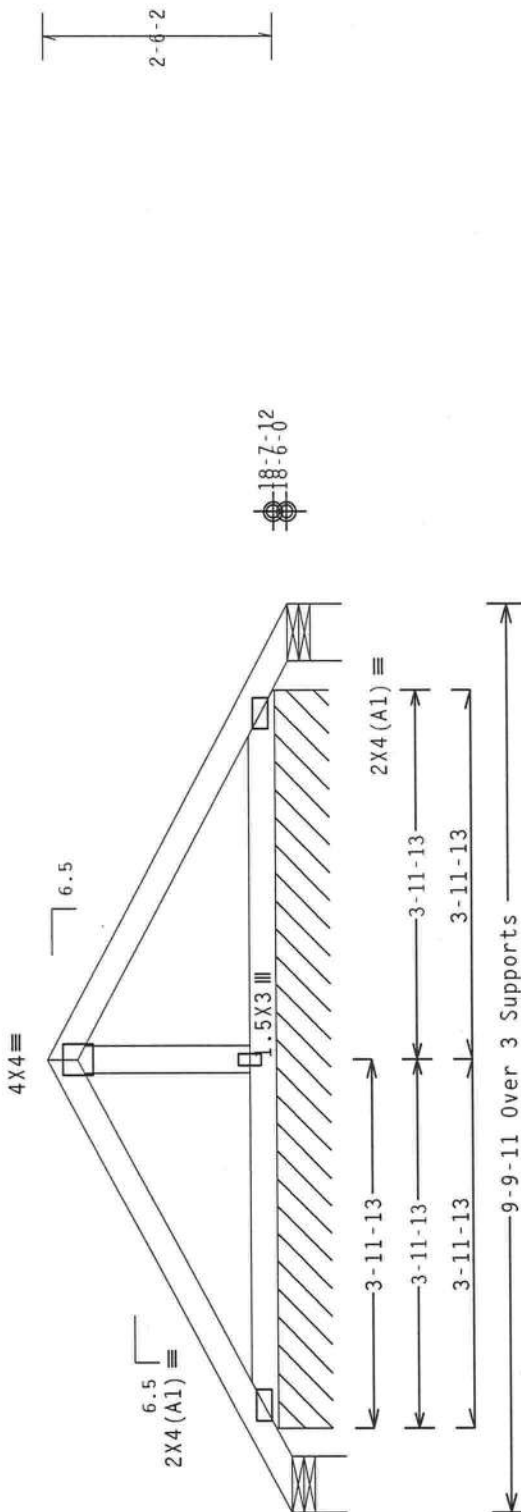
Wind loads and reactions based on MWFRS with additional C&C member design.

Refer to DWG PB1200310 for piggyback details.

Special loads

-----Lumber
Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 63 plf at 0.00 to 63 plf at 4.90
TC- From 63 plf at 4.90 to 63 plf at 9.81
BC- From 4 plf at 0.00 to 4 plf at 9.81

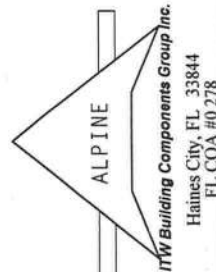
Deflection meets L/240 live and L/180 total load.



R=36 Rw=40 U=45 W=7.349"
RL=54/-B486 PLF U=26 PLF W=7-11-10

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

PLT TYP. Wave



Scale =.5"/Ft.

TC LL	20.0 PSF	REF R487 --	37291
TC DL	10.0 PSF	DATE	11/18/11
BC DL	10.0 PSF	DRW	HCUR487 11322014
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	248663
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UH5487_Z01

	Top	chord	2x4	SP	#2	Dense
	30t	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

110 mph wind. 19.66 ft mean hgt. ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. IW=1.00 gCp1 (+/-) -0.18

Wind Loads and reactions based on MWFRS with additional C&C member design.

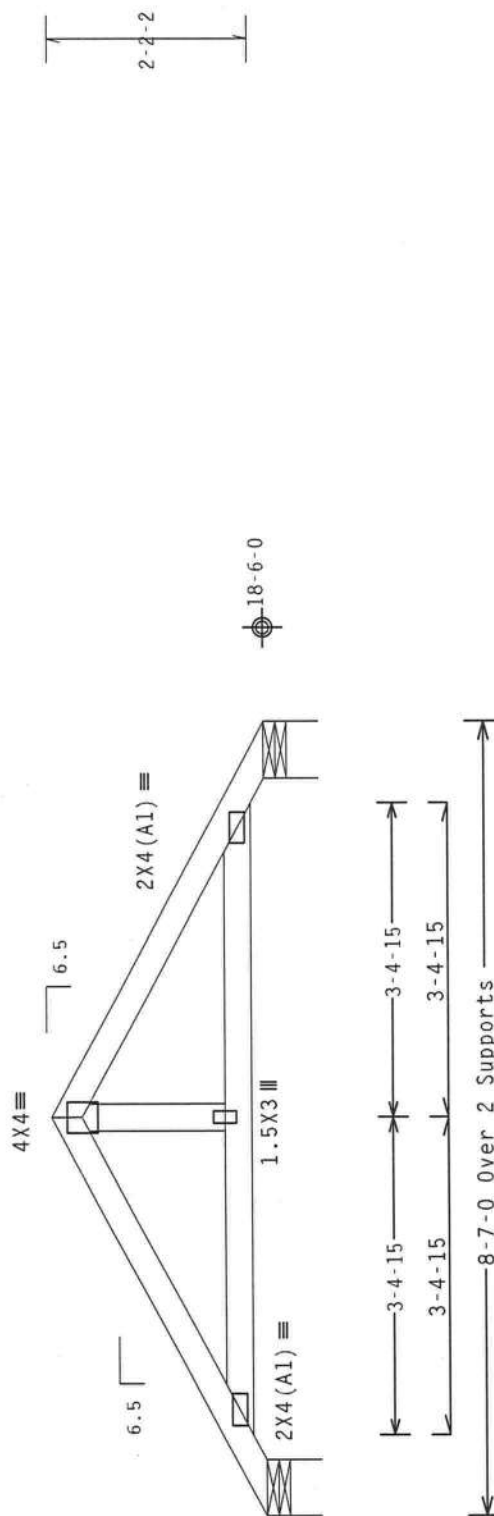
refer to DWG PB1200310 for piggyback details.

Special loads

----- (Lumber	Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From	63 plf at -0.88 to 63 plf at 3.41
TC- From	63 plf at 3.41 to 63 plf at 7.70
BC- From	4 plf at -0.88 to 4 plf at 7.70

Left and right cantilevers are exposed to wind

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



R=266 U=75 W=7.349"
RL=47/-47

Design Crit: FBC2007Res/TPI-2002(STD)

3C200/Kes/IFT-2002
FT/RT=10%(0%)/0(0)

Scale = .5"/Ft.

FL1-141-1-1R/-

1670TY

10/20

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(0) 01
2007-

res/100

ET/ET
07091

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

Des

6

TVD

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

IMPORTANT**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety) Information, by IPI and MICA for detailed instructions and drawings for proper bracing of trusses. Installers shall provide temporary bracing per the instructions noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Connections shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

The Building Components Group Inc. (LBGBC) shall not be responsible for any deviation from the design shown on this drawing. The manufacturer shall build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or erecting of trusses. Apply plates to each face of truss and position as shown above and on the Joint Detail. The manufacturer shall be responsible for the design of the truss and the design of the truss details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the underside of the truss shall be used to indicate acceptance of professional engineering responsibility and cover plate indicating this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer. For more information, contact: LBGBC, 1114-BBC, Ave., Suite 100, St. Louis, MO 63103. TPI: www.tpinet.org; WCA: www.abctmtruss.com; LBCE: www.lbceusa.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
EOA #0 378

Haines City, FL 33844
FL COA #0278

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE 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.

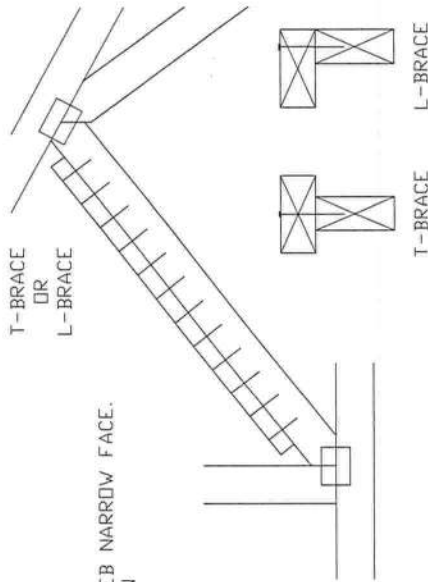
T-BRACING

OR

L-BRACING:

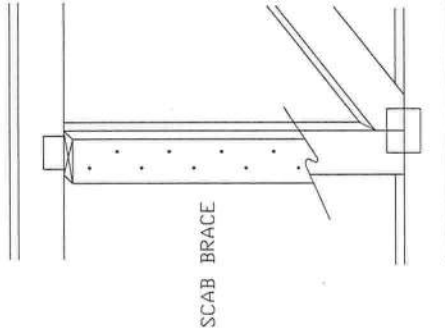
APPLY TO EITHER SIDE OF WEB NARROW FACE. ATTACH WITH 10d BOX OR GUN (0.128" x 3" MIN) NAILS.

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 BOX OR GUN (0.128" x 3" MIN) NAILS. AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



*****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 Component Suppliers Institute) Safety Information, by TPI and VTCa for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI and VTCa. The bottom chord shall be braced with rigid ceiling bracing. Locations shown for permanent lateral restraint of webs shall not be altered. See this Job's general notes page for more information.
*****IMPORTANT***** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR
ITW Building Components Group, Inc. (ITWBCG) is a registered provider of training for the design, fabrication, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 2018/16GA (W/H/S/K) ASTM A572 Grade 50 steel. Apply plates to each face of truss, positioned as shown above and on Joint Details.
A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
ITWBCG: www.itwbcg.com, TPI: www.tpinet.com, VTCa: www.vtcaindustry.com, IEC: www.iccsafe.org

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCLBSUB0109
BC LL	PSF		
TOT. L.D.	PSF		
DUR. FAC.			
SPACING			



Building Components Group Inc.

Earth City, MO 63045

GABLE STUD REINFORCEMENT DETAIL

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

MAX GABLE VERTICAL LENGTH	2X4 GABLE VERTICAL SPACING	BRACE SPECIES/ GRADE	BRACE		NO BRACES		(1) 1X4 'L' BRACE		(2) 2X4 'L' BRACE		(1) 2X6 'L' BRACE		(2) 2X6 'L' BRACE	
			#1 / #2	#3	#1 / #2	#3	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" D.C.	SPF	STANDARD	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
	HF	STANDARD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
	SP	STANDARD	3' 9"	5' 2"	5' 2"	7' 11"	6' 9"	9' 1"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	DFL	STANDARD	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
16" D.C.	SPF	STANDARD	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
	HF	STANDARD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
	SP	STANDARD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
12" D.C.	SPF	STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	STANDARD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

GROUP B:

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

GROUP A:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

GROUP B:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

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.

ATTACH EACH 'L' BRACE WITH 10d NAILS.

* FOR (1) 'L' BRACE: SPACE NAILS AT 2' D.C. IN 18" END ZONES AND 4" D.C. BETWEEN ZONES.

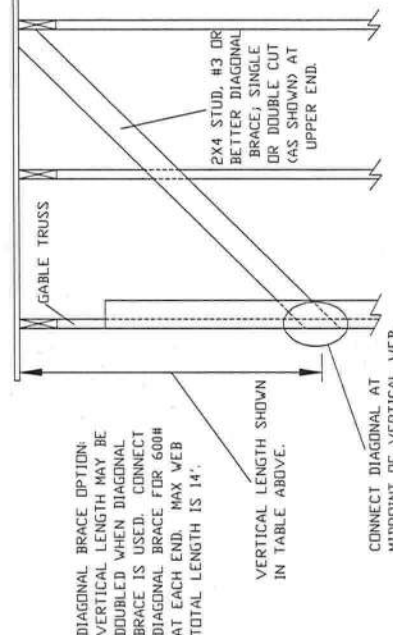
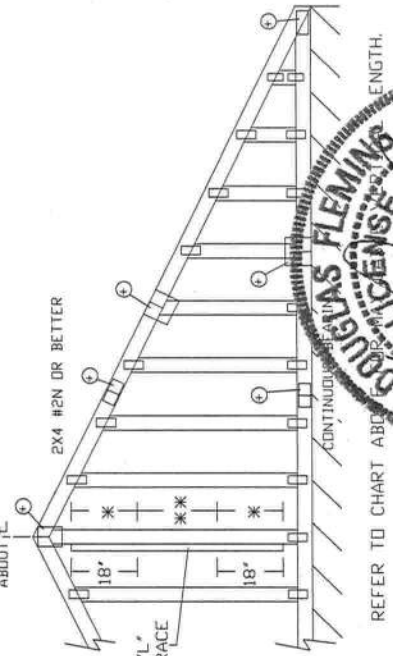
* *OR (2) 'L' BRACES: SPACE NAILS AT 3' D.C. IN 18" END ZONES AND 6" D.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	25X4
GREATER THAN 11' 6"	3X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.



Building Components Group Inc.

Earth City, MO 63045

REF ASCE7-05-GAB1015

DATE 1/1/09

DRWG A11015050109

MAX. TOT. L.D. 60 PSF

MAX. SPACING 24.0"

DOUGLAS FLEMING

FLORIDA PROFESSIONAL ENGINEER

No. 66848

STATE OF FLORIDA

1/18/2011

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

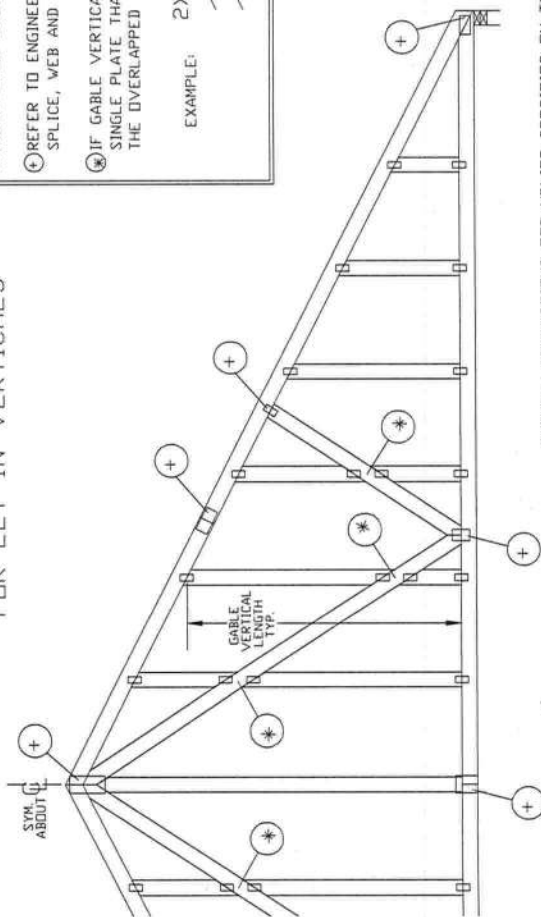
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI Building Component Safety Information, by TPI and VTC for safety practices prior to performing these functions. Installers shall provide temporary bracing prior to erection of the truss. Properly attached rigid gables. Locations shown for permanent lateral restraint of webs shall not be bracing installed per BCSI sections B3 & B7. See this Job's general notes page for more information.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR

ITW Building Components Group, Inc. (ITWBCG) is a registered professional engineering firm in the State of Missouri. ITWBCG is the responsible party for the design of the truss and its components. The design is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.

ITW-BEG: www.itwbcg.com, TPI: www.tpinet.com, VTC: www.vtcindustry.com, IEC: www.iccsafe.org

GABLE DETAIL FOR LET-IN VERTICALS



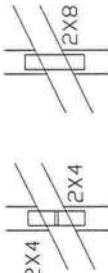
GABLE TRUSS PLATE SIZES

REFER TO APPROPRIATE ITW GABLE DETAIL FOR MINIMUM PLATE SIZES FOR VERTICAL STUDS.

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

⊙ IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE THAT COVERS THE TOTAL AREA OF THE OVERLAPPED PLATES TO SPAN THE WEB.

EXAMPLE:



T REINFORCEMENT ATTACHMENT DETAIL

T REINFORCING MEMBER



- DR -

TOENAIL

ENDNAIL

TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" INCREASE BY LENGTH (BASED ON APPROPRIATE ITW GABLE DETAIL).

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

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	"T" INCREASE
140 MPH	2x4	10 %
15 FT	2x6	50 %
140 MPH	2x4	10 %
30 FT	2x6	50 %
130 MPH	2x4	10 %
15 FT	2x6	50 %
130 MPH	2x4	10 %
30 FT	2x6	50 %
120 MPH	2x4	10 %
15 FT	2x6	50 %
120 MPH	2x4	10 %
30 FT	2x6	40 %
110 MPH	2x4	10 %
15 FT	2x6	40 %
110 MPH	2x4	10 %
30 FT	2x6	50 %
100 MPH	2x4	20 %
15 FT	2x6	30 %
100 MPH	2x4	10 %
30 FT	2x6	40 %
90 MPH	2x4	20 %
15 FT	2x6	20 %
90 MPH	2x4	20 %
30 FT	2x6	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT, Kzt = 1.00

GABLE VERTICAL = 24' O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2x4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2x4 "L" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

END DRIVEN NAILS:

10d COMMON (0.148"x3.1" MIN) NAILS AT 4" O.C. PLUS

(4) NAILS IN TOP AND BOTTOM CHORD.

TIDENAIL NAILS:

10d COMMON (0.148"x3.1" MIN) TIDENAILS AT 4" O.C. PLUS

(4) TIDENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ITW GABLE DETAIL FOR ASCE

WIND LOAD.

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015980109, A12015980109, A1015980109, A10015980109,

A13030980109, A12030980109, A1030980109, A10030980109

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015020109, A12015020109, A1015020109, A10015020109,

A13030020109, A12030020109, A1030020109, A10030020109

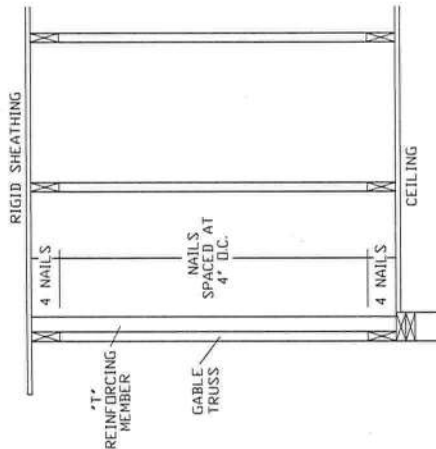
ASCE 7-05 GABLE DETAIL DRAWINGS

A13015050109, A12015050109, A1015050109, A10015050109,

A13030050109, A12030050109, A1030050109, A10030050109

SEE APPROPRIATE ITW GABLE DETAIL FOR MAXIMUM

UNREINFORCED GABLE VERTICAL LENGTH.



WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

ITW Building Components Group, Inc. (ITWBCG) shall not be responsible for any deviation from the design of this detail. The design of this detail is based on the assumption that the truss is designed and fabricated in accordance with the ITWBCG Building Component Safety Information, by TPI and VTCA. For safety practices prior to installing & bracing of trusses, ITWBCG connector plates are made of 2018/16GA (4.1/3.5) ASTM A36 steel, grade 37/40/60 (K/V/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design and fabrication. For more information, contact ITWBCG at 1-800-368-7263 or visit our website at www.itwbcg.com. ITWBCG is a registered provider of the Building Designer per ANSI/TPI 1 Sec. 2. ITWBCG: www.itwbcg.com, TPI: www.tpinet.com, VTCA: www.vtcanet.com, ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

REF LET-IN VERT

DATE 1/1/09

DRWG GBLLETIN0109

MAX TOT. LD. 60 PSF

DUR. FAC. ANY

MAX SPACING 24.0"

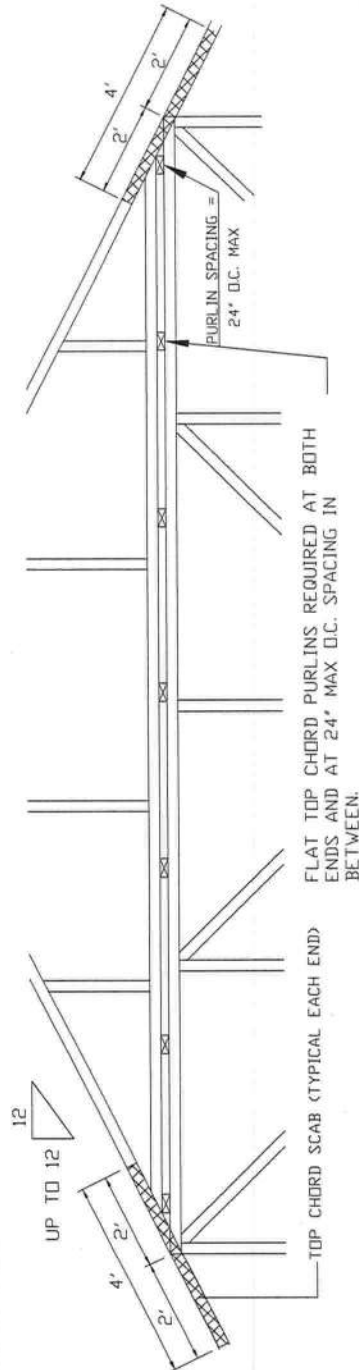


120 PIGGYBACK DETAIL

UP TO 120 MPH WIND, 3000 FT MEAN HGT, ASCE 7-02 OR ASCE 7-05, ENCLOSED BLDG. LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND DL= 50 PSF (MIN), Kzt=1.0.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. THE BUILDING ENGINEER OF RECORD SHALL PROVIDE DIAGONAL BRACING OR ANY OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS, AND LATERAL BRACING FOR OUT OF PLANE LOADS OVER GABLE ENDS. ** REFER TO ENGINEER'S SEALED TRUSS DESIGN DRAWING FOR PIGGYBACK AND BASE TRUSS SPECIFICATIONS.

DETAIL A : PURLIN SPACING = 24" O.C. OR LESS



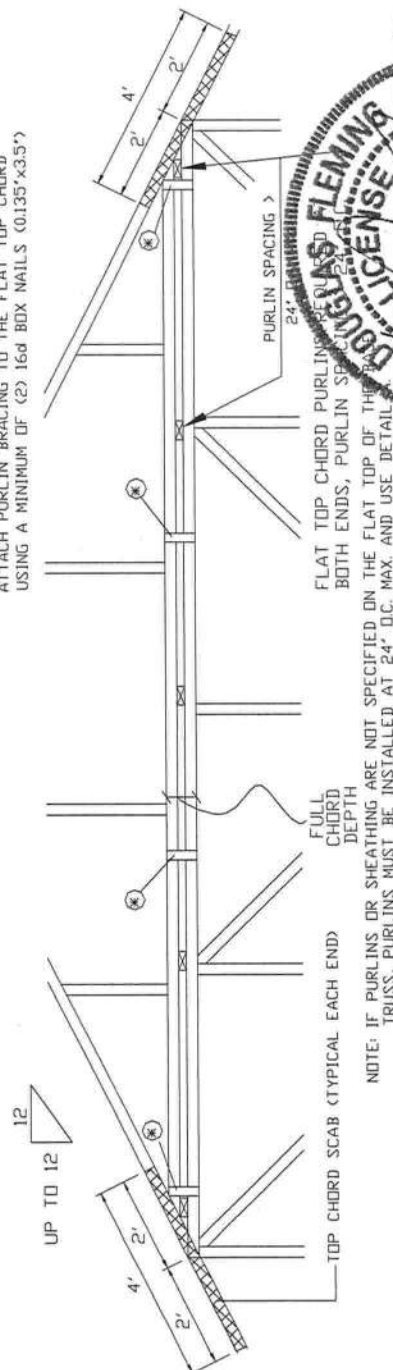
PIGGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5") AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY AT EACH END) ATTACHED WITH 2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4' O.C.

ATTACH PURLIN BRACING TO THE FLAT TOP CHORD USING (2) 16d BOX NAILS (0.135"x3.5")

THE TOP CHORD #3 GRADE 2x4 SCAB MAY BE REPLACED WITH EITHER OF THE FOLLOWING: (1) 3x8 TRUSS PLATE ATTACHED WITH (8) 0.120"x1.375" NAILS, (4) INTO CAP TC & (4) INTO BASE TRUSS TC OR (2) 28PB WAVE PIGGYBACK PLATE PLATED TO THE PIGGYBACK TRUSS TC AND ATTACHED TO THE BASE TRUSS TC WITH (4) 0.120"x1.375" NAILS. NOTE: NAILING THRU HOLES OF WAVE PLATE IS ACCEPTABLE.

DETAIL B : PURLIN SPACING > 24" O.C.

PIGGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5") AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY AT EACH END) ATTACHED WITH 2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4' O.C. ATTACH PURLIN BRACING TO THE FLAT TOP CHORD USING A MINIMUM OF (2) 16d BOX NAILS (0.135"x3.5")



NOTE: IF PURLINS OR SHEATHING ARE NOT SPECIFIED ON THE FLAT TOP OF THE TRUSS, PURLINS MUST BE INSTALLED AT 24" O.C. MAX. AND USE DETAIL A.

* IN ADDITION, PROVIDE CONNECTION WITH ONE OF THE FOLLOWING METHODS:

TRUSS USE 3x8 TRUSS PLATES FOR 2x4 CHORD MEMBER, AND 3x10 TRUSS PLATES FOR 2x6 AND LARGER CHORD MEMBERS. ATTACH TO EACH FACE @ 8' O.C. WITH (4) 0.120"x1.375" NAILS INTO CAP BOTTOM CHORD AND (4) IN BASE TRUSS TOP CHORD. TRUSS PLATES MAY BE STAGGERED 4' O.C. FRONT TO BACK FACES.

APA RATED GUSSET

8"x8"x7/16" (MIN) APA RATED SHEATHING GUSSETS (EACH FACE). ATTACH @ 8' O.C. WITH (8) 6d COMMON (0.113"x2") NAILS PER GUSSET, (4) IN CAP BOTTOM CHORD AND (4) IN BASE TRUSS TOP CHORD. GUSSETS MAY BE STAGGERED 4' O.C. FRONT TO BACK FACES.

2x4 VERTICAL SCABS

2x4 SPF#2, FULL CHORD DEPTH SCABS (EACH FACE). ATTACH @ 8' O.C. WITH (6) 10d BOX NAILS (0.128"x3") PER SCAB. (3) IN CAP BOTTOM CHORD AND (3) IN BASE TRUSS TOP CHORD. SCABS MAY BE STAGGERED 4' O.C. FRONT TO BACK FACE

28PB WAVE PIGGYBACK PLATE

ONE 28PB WAVE PIGGYBACK PLATE TO EACH FACE @ 8' O.C. ATTACH TEETH TO PIGGYBACK AT TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120"x1.375" NAILS PER FACE PER PLY. PIGGYBACK PLATES MAY BE STAGGERED 4' O.C. FRONT TO BACK FACES.

TW
Building Components Group Inc.

REF PIGGYBACK

DATE 03/15/10

DRWG PB1200310

SPACING 24.0"

1/8/2011

DOUGLAS FLEMING
No. 66848
STATE OF FLORIDA
PROFESSIONAL ENGINEER

*****WARNING***** READ AND FOLLOW ALL NOTES ON THIS SHEET. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following BCSI (Building Component Safety Information) by TPI and VTCA for safety practices prior to performing these functions. Installers should provide temporary bracing and lateral restraint of webs until the truss is permanently braced. Locations shown for permanent lateral restraint of webs shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

*****IMPORTANT***** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV Building Components Group Inc. (TPI) and VTCA are not responsible for any deviation from the design of this truss system. Trusses are fabricated in accordance with TPI and VTCA specifications. Trusses are made of 2018/165A (W/H/S) A36 steel, grade 37/40/60 (C/V/H/S) galv. steel. Apply plates to each face of truss, positioned as shown on and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility. The liability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. ITV-BCSI www.bcsi.com, TPI www.tpinet.com, VTCA www.structuretry.com, ICC www.iccsafe.org

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: DEP-cooper-11-28-11
 Street:
 City, State, Zip: , FL, -
 Owner: COOPER Residence
 Design Location: FL, Gainesville

Builder Name: Little & Williams
 Permit Office: Columbia County
 Permit Number:
 Jurisdiction:

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area (ft ²)	1600
7. Windows (168.0 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.57 95.00 ft ²
SHGC:	SHGC=0.60
b. U-Factor:	Sgl, U=0.57 73.00 ft ²
SHGC:	SHGC=0.60
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
e. U-Factor:	N/A ft ²
SHGC:	
8. Floor Types (1600.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=3.0 1600.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

9. Wall Types (1280.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 1168.00 ft ²
b. Frame - Wood, Adjacent	R=13.0 112.00 ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types (1600.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 1600.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts	
a. Sup. Attic Ret. Attic AH: Garage Sup. R= 6.60 ft ²	
12. Cooling systems	
a. Central Unit	Cap: 36.0 kBtu/hr SEER: 13
13. Heating systems	
a. Electric Heat Pump	Cap: 24.2 kBtu/hr HSPF: 7.7
14. Hot water systems	
a. Electric	Cap: 50 gallons EF: 0.92
b. Conservation features	
None	
15. Credits	CF, CV

Glass/Floor Area: 0.105

Total As-Built Modified Loads: 26.90

Total Baseline Loads: 34.85

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: *Adam Williams*

DATE: 11/28/11

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

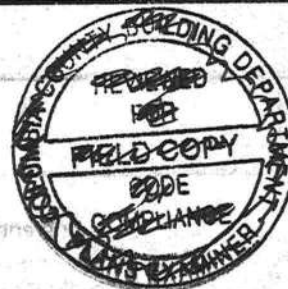
OWNER/AGENT:

DATE:

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL:

DATE:



PROJECT

Title: DEP-cooper-11-28-11	Bedrooms: 3	Address Type: Street Address
Building Type: FLAsBuilt	Conditioned Area: 1600	Lot #
Owner: COOPER Residence	Total Stories: 1	Block/SubDivision:
# of Units: 1	Worst Case: No	PlatBook:
Builder Name: Little & Williams	Rotate Angle: 0	Street:
Permit Office: Columbia County	Cross Ventilation: Yes	County: Columbia
Jurisdiction:	Whole House Fan: No	City, State, Zip: , FL
Family Type: Single-family		
New/Existing: New (From Plans)		
Comment:		

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

✓	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
	1	Slab-On-Grade Edge Insulatio	160 ft	3	1600 ft²	0	1	0

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
	1	Gable or shed	Composition shingles	1819 ft²	432 ft²	Light	0.96	No	0	28.4 deg

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
	1	Full attic	Vented	303	1600 ft²	N	N

CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
	1	Under Attic (Vented)	30	1600 ft²	0.11	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
	1	N	Exterior	Frame - Wood	13	320 ft²		0.23	0.75
	2	E	Exterior	Frame - Wood	13	320 ft²		0.23	0.75
	3	S	Exterior	Frame - Wood	13	320 ft²		0.23	0.75
	4	W	Exterior	Frame - Wood	13	208 ft²		0.23	0.75
	5	W	Garage	Frame - Wood	13	112 ft²		0.23	0.01

DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
	1	W	Insulated	None	0.460000	20 ft²

WINDOWS

Orientation shown is the entered, asBuilt orientation.

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth Separation	Int Shade	Screening
	1	N	Metal	Low-E Double	Yes	0.57	0.6	N	40 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	2	N	Metal	Low-E Double	Yes	0.57	0.6	N	20 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	3	E	Metal	Low-E Double	Yes	0.57	0.6	N	15 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	4	E	Metal	Low-E Double	Yes	0.57	0.6	N	20 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	5	E	Metal	Single (Clear)	Yes	0.57	0.6	N	15 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	6	S	Metal	Single (Clear)	Yes	0.57	0.6	N	15 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	7	S	Metal	Single (Clear)	Yes	0.57	0.6	N	15 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	8	W	Metal	Single (Clear)	Yes	0.57	0.6	N	9 ft²	10 ft 0 in 0 ft 6 in	HERS 2006	None
	9	W	Metal	Single (Clear)	Yes	0.57	0.6	N	4 ft²	2 ft 0 in 0 ft 6 in	HERS 2006	None
	10	W	Metal	Single (Clear)	Yes	0.57	0.6	N	15 ft²	2 ft 0 in 0 ft 6 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM Exhaust CFM	Run Time Fraction	Fan Watts
	Default	0.00036	1514	7.08	82.9	156.0	0 cfm 0 cfm	0	11.5

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
	1	404.8 ft²	401 ft²	66.5 ft	8 ft	13

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ducts
	1	Central Unit	Split	SEER: 13	36 kBtu/hr	1080 cfm	0.75	sys#1

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ducts
	1	Electric Heat Pump	None	HSPF: 7.7	24.2 kBtu/hr	sys#1

HOT WATER SYSTEM

✓	#	System Type	EF	Cap	Use	SetPnt	Conservation
	1	Electric	0.92	50 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC												
	Cert #	Company Name			System Model #		Collector Model #	Collector Area	Storage Volume	FEF			
	None	None						ft²					

DUCTS

✓		--- Supply ---			--- Return ---			Air		Percent			
	#	Location	R-Value	Area	Location	Area	Leakage Type	Handler	CFM 25	Leakage	QN	RLF	
	1	Attic	6	60 ft²	Attic	60 ft²	Default Leakage	Garage	(Default)	(Default) %			

TEMPERATURES

Programable Thermostat: N													
Ceiling Fans: N													
Cooling	☒	Jan	☒	Feb	☒	Mar	☒	Apr	☒	May	☒	Jun	☒
Heating	☒	Jan	☒	Feb	☒	Mar	☒	Apr	☒	May	☒	Jun	☒
Venting	☒	Jan	☒	Feb	☒	Mar	☒	Apr	☒	May	☒	Jun	☒
Thermostat Schedule: HERS 2006 Reference													
Hours													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS:

, FL, -

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N1112.ABC.3 Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings: Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 77

The lower the EnergyPerformance Index, the more efficient the home.

, , FL, -

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13.0	1168.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	112.00 ft ²
4. Number of Bedrooms	3	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1600	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	1600.00 ft ²
a. U-Factor:	Dbf, U=0.57	b. N/A	R=	ft ²
SHGC:	SHGC=0.60	c. N/A	R=	ft ²
b. U-Factor:	Sgl, U=0.57	11. Ducts		
SHGC:	SHGC=0.60	a. Sup: Attic Ret: Attic AH: Garage Sup. R= 6, 60 ft ²		
c. U-Factor:	N/A	12. Cooling systems		
SHGC:		a. Central Unit	Cap: 36.0 kBtu/hr	SEER: 13
d. U-Factor:	N/A	13. Heating systems		
SHGC:		a. Electric Heat Pump	Cap: 24.2 kBtu/hr	HSPF: 7.7
e. U-Factor:	N/A	14. Hot water systems		
SHGC:		a. Electric	Cap: 50 gallons	EF: 0.92
8. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R=3.0	1600.00 ft ²		
b. N/A	R=	ft ²		
c. N/A	R=	ft ²		
		15. Credits		CF, CV

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

EnergyGauge® USA - FlaRes2008

Residential System Sizing Calculation

Summary

COOPER Residence

Project Title:
DEP-cooper-11-28-11

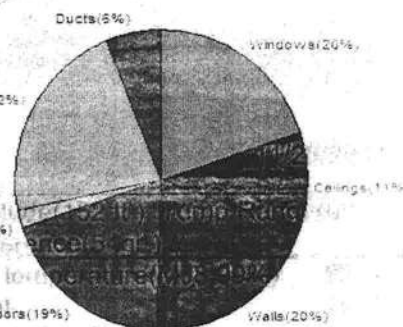
11/28/2011

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature(MJ8 99%)	33 F	Summer design temperature(MJ8 99%)	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	17728 Btuh	Total cooling load calculation	17415 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	136.5 24200	Sensible (SHR = 0.75)	186.4 27000
Heat Pump + Auxiliary(0.0kW)	136.5 24200	Latent	307.2 9000
		Total (Electric Heat Pump)	206.7 36000

WINTER CALCULATIONS

Winter Heating Load (for 1600 sqft)

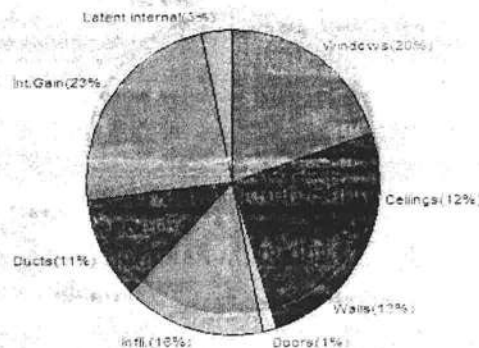
Load component		Load	
Window total	168 sqft	3543	Btuh
Wall total	1092 sqft	3586	Btuh
Door total	20 sqft	340	Btuh
Ceiling total	1600 sqft	1885	Btuh
Floor total	1600 sqft	3406	Btuh
Infiltration	96 cfm	3889	Btuh
Duct loss		1078	Btuh
Subtotal		17728	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		17728	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1600 sqft)

Load component		Load	
Window total	168 sqft	3475	Btuh
Wall total	1092 sqft	2238	Btuh
Door total	20 sqft	258	Btuh
Ceiling total	1600 sqft	2140	Btuh
Floor total		0	Btuh
Infiltration	49 cfm	913	Btuh
Internal gain		4090	Btuh
Duct gain		1372	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		14486	Btuh
Latent gain(ducts)		536	Btuh
Latent gain(infiltration)	0 cfm	1793	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		600	Btuh
Total latent gain		2929	Btuh
TOTAL HEAT GAIN		17415	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: *Adrian Williams*

DATE: *11-28-11*

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: Robert : Carrie Cooper

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	Maschito	Exterior Doors	FI 4904.1
2. Sliding	ME	Sliding Glass Door M26	FI 4956-R1
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Atrium	Windows S/H	FI 11626.1
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	Crestline Panel	Fiber Cement Siding	FI 3148.1
2. Soffits	Kroy Gypsum	Aluminum Soffit	FI 12098.1
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments	Woodland	30# Roll Roof	FI 1844.1
3. Roofing Fasteners			
4. Non-structural Metal Rf	Union	29g metal Roofing	FI 6895-A1
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

