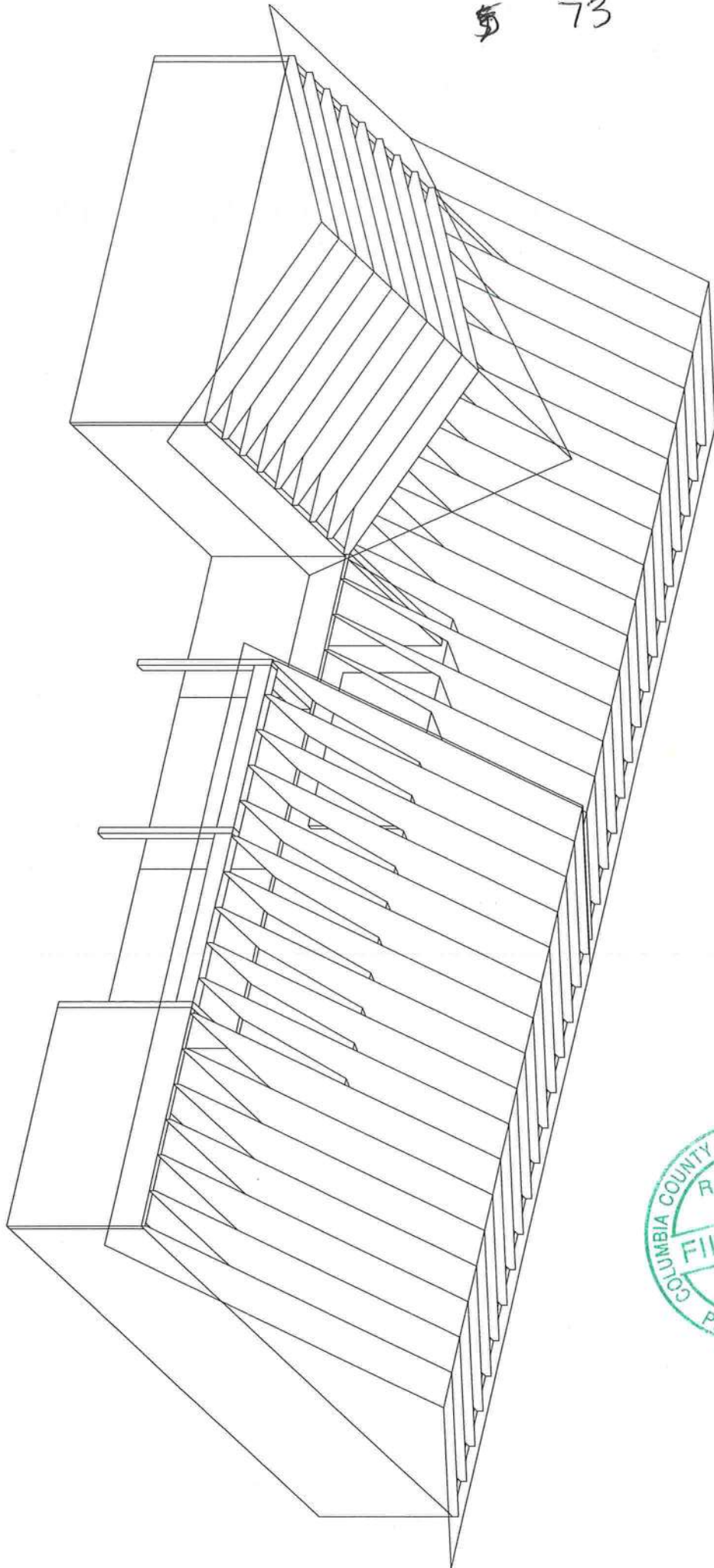
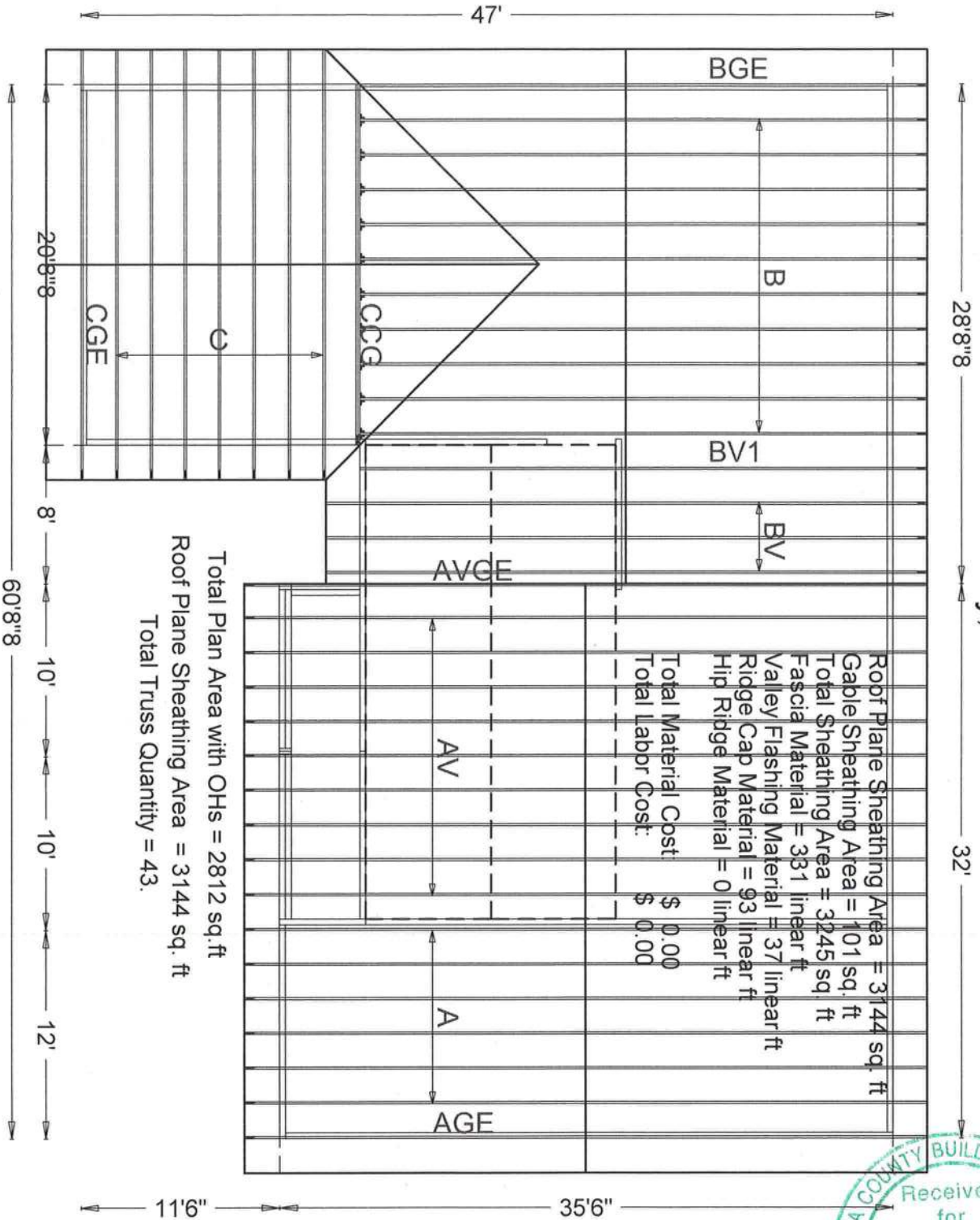


§ 73



Will Robinson Residence Lake City, FL



Location:
 JOB DESCRIPTION:: Fill in later
 /: Will Robinson Residence

JOB NO:
 12-175

PAGE NO:
 1 OF 1

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:1UQS9114Z0431074932



Truss Fabricator: Anderson Truss Company
Job Identification: 12-175--Fill in later Will Robinson Residence -- Lake City
Truss Count: 12
Model Code: Florida Building Code 2010
Truss Criteria: FBC2010Res/TPI-2007(STD)
Engineering Software: Alpine Software, Version 10.03.
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 - 120 MPH ASCE 7-10 -Closed

Notes:

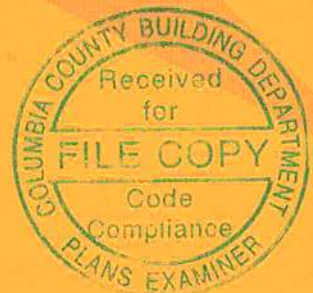
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR9114

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-12015EC1-GBLLETIN-GABRST10-CNNAILSP-

#	Ref	Description	Drawing#	Date
1	71708--B	30'10" Common	12304011	10/30/12
2	71709-BGE	30'10" Commo	12305010	10/31/12
3	71710--C	20'8"8 Common	12304012	10/30/12
4	71711-CGE	20'8"8 Gable	12305006	10/31/12
5	71712--A	35'6" Common	12305001	10/31/12
6	71713-AGE	35'6" Common	12305007	10/31/12
7	71714-A	35'6" Common G	12305002	10/31/12
8	71715-BV	30'10" Common	12305003	10/31/12
9	71716-BV1	30'10" Commo	12305004	10/31/12
10	71717--AV	35'6" Common	12305005	10/31/12
11	71718-AVGE	35'6" Gable	12305008	10/31/12
12	71719-CCG	20'8"8 Commo	12305009	10/31/12



(12-175--Fill in later Will Robinson Residence -- Lake City, FL - B 30'10" Common)

Top chord 2x4 SP M-30
Bot chord 2x4 SP #1
Webs 2x4 SP #3

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(H1) = (J) Hanger not calculated (2)2x6 SP SS supporting member.

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

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

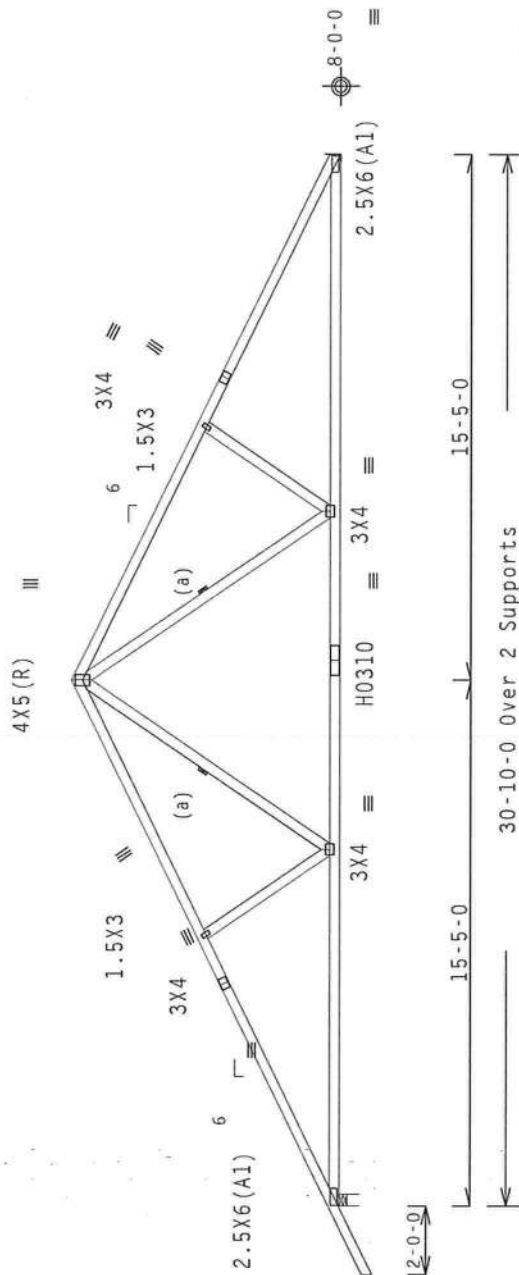
Wind loads and reactions based on MWFRS with additional C&C member design.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

(a) Continuous lateral bracing equally spaced on member.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



30-10-0 Over 2 Supports

R=1362 U=0 H-Simpson LUS26

Supported Member Face: (4)

Supporting Member Face: (4)

Supporting Member : (2) 2x6 SP #2

R=1506 U=0 W=4"

RL=125/-132

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10%(0%) / 0(0)

PLT TYP. 20 Gauge HS, Wave

Scale = .1875" / Ft.

10.03. No. 022839

10.03. No. 022839

10.03. No. 022839

TC LL	20.0 PSF	REF	R9114- 71708
TC DL	10.0 PSF	DATE	10/30/12
BC DL	10.0 PSF	DRW	HCUSR9114 12304011
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	287396
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UQS9114Z04



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

****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses shall be installed in accordance with the manufacturer's instructions and shall follow the latest published BCSI (Building Components Systems Inc.) recommendations. 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 bracing 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 the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plans 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 each end of the truss shall be provided. 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; ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; MCA: www.sbcindustry.com; ICC: www.iccsafe.org



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

10/31/2012

(12-175--Fill in later Will Robinson Residence -- Lake City, FL - BGE 30'10" Common)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

:Stack Chord SC1 2x4 SP M-30::Stack Chord SC2 2x4 SP M-30:

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Gable end supports 8" max rake overhang.

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

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

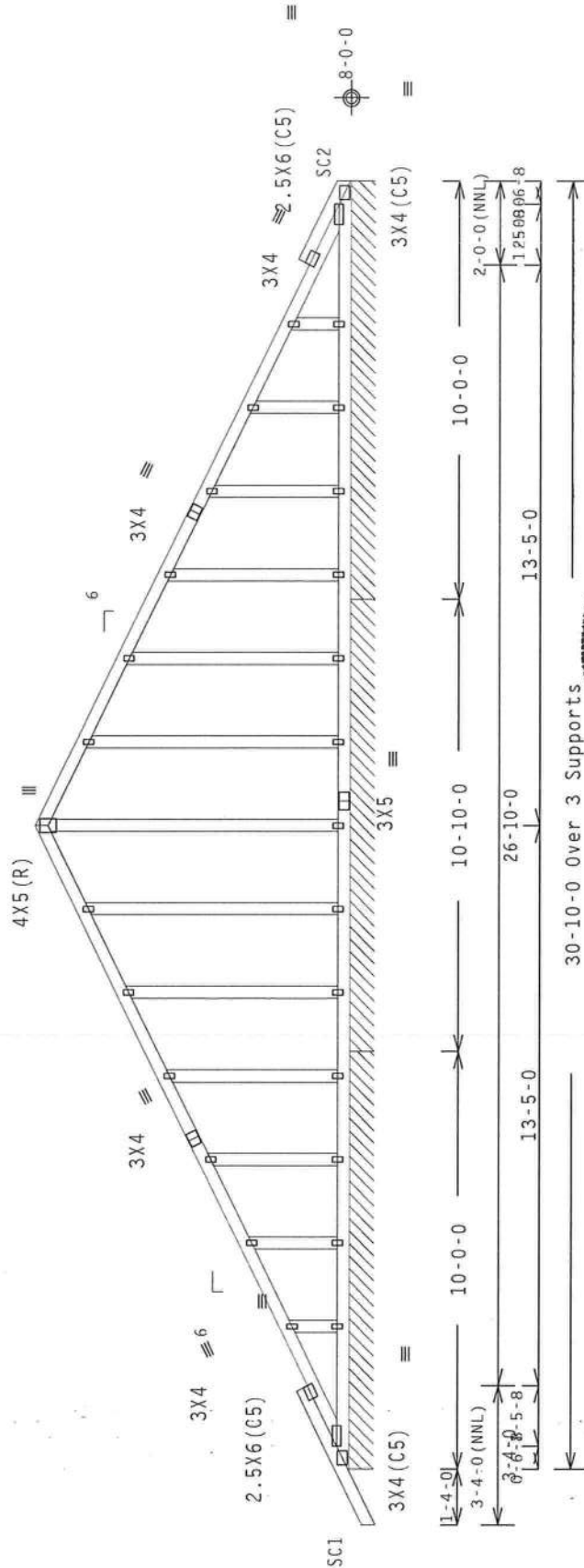
Wind loads and reactions based on MWFRS with additional C&C member design.

See DWGS A12015ENC100212, GBLLETIND212, & GABRSTI00212 for more requirements.

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. Creep increase factor for dead load is 1.50.



R=186 PLF U=1 PLF W=10-0-0

R=186 PLF U=0 PLF W=10-10-0

Note: All Plates Are 1.5x3 Except As Shown.
Design Crit: FBC2010Res/TPI-2007 (STD)

PLT TYP. Wave
R=186 PLF U=0 PLF W=10-10-0
FT/RT=10%(0%)/0(0)

Scale = .25" / Ft.

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R9114- 71709

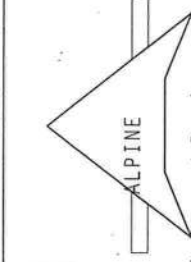
DATE 10/31/12

DRW HCUSR9114 12305010

HC-ENG JB/WPF

SEQN- 285707

JREF- 1U0S9114Z04



ALPINE 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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) and the manufacturer's instructions for proper installation and bracing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
TPI Building Components Group Inc. (TIBCOG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 180A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility for the design shown. The reliability and use of this design for any structure is the responsibility of the user. For more information, contact TPI at 1-800-368-7777 or visit our website at www.tpiinc.com. TPI: www.tpiinc.com; TPI: www.tpiinc.org; WCA: www.bcsiindustry.com; ICC: www.iccsafe.org

10/31/2012
JREF- 1U0S9114Z04

(12-175--Fill in later Will Robinson Residence -- Lake City, FL - C 20'8"8 Common)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

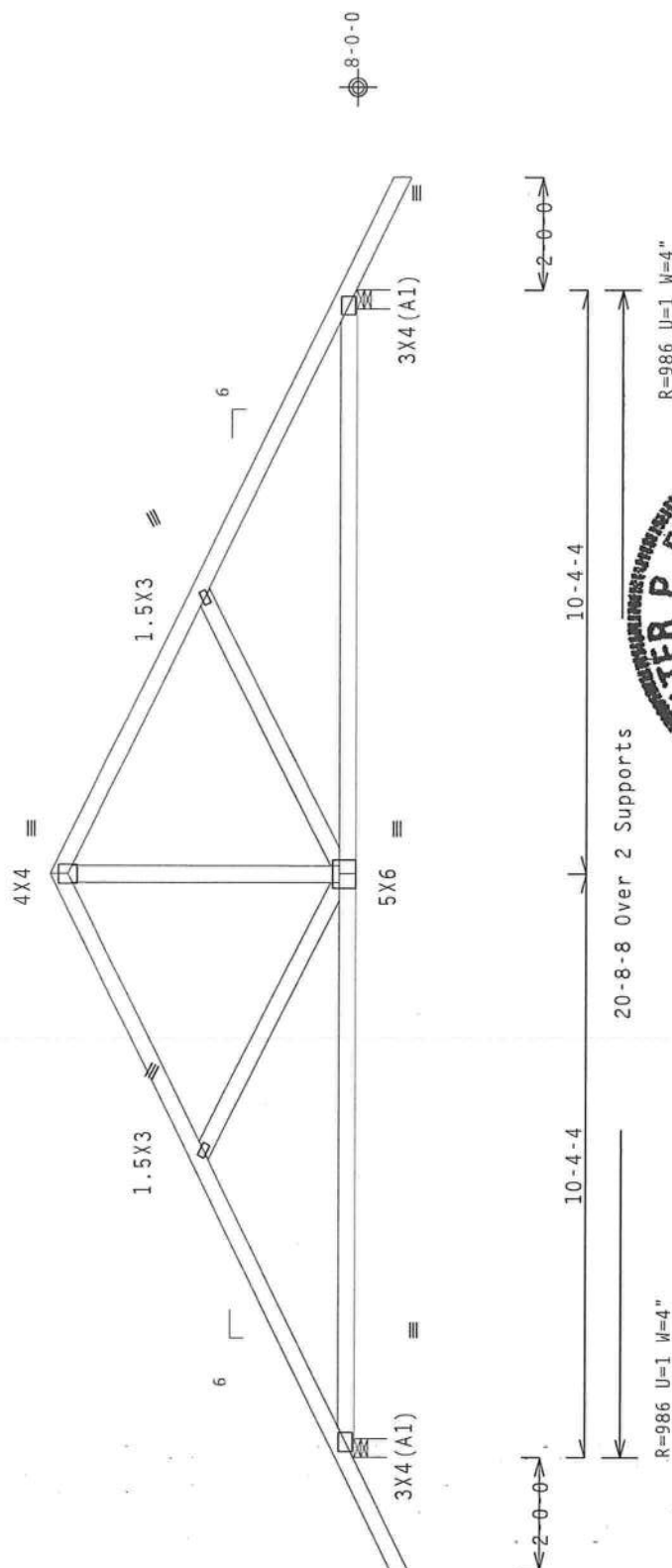
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10%(0%) / 0(0)

10.03 No. 22830

Scale = .3125"/Ft.

ALPINE Alpine Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. **IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		NO. 22639		
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses shall be installed in accordance with the manufacturer's instructions and shall follow the latest edition of BCSI (Building Component Safety Information, by TPI and MICA) practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bolts shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. ITM Building Components Group Inc. (ITMBCG) shall not be responsible for any deviation from the 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 details, unless noted otherwise. Refer to drawings for standard plate positions. A seal on the bottom chord is required for all trusses. The suitability and use of this design structure is the responsibility of the building designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: ITM-BCG; www.itm-bcg.com; TPI: www.tpiinst.org; MICA: www.sbcindustry.com; ICC: www.iccsafe.org		10/31/2012		
	TC LL	20.0	PSF	REF	R9114- 71710
	TC DL	10.0	PSF	DATE	10/30/12
	BC DL	10.0	PSF	DRW	HCUSR9114 12304012
	BC LL	0.0	PSF	HC-ENG	JB/WPF
	TOT.LD.	40.0	PSF	SEQN-	287222
DUR.FAC.			1.25		
SPACING			24.0"	JREF- 1UQ59114Z04	

(12-175--Fill in later Will Robinson Residence -- Lake City, FL - CGE 20'8" Gable)
 Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3
 :Stack Chord SC1 2x4 SP M-30::Stack Chord SC2 2x4 SP M-30:

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Gable end supports 8" max rake overhang.

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

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

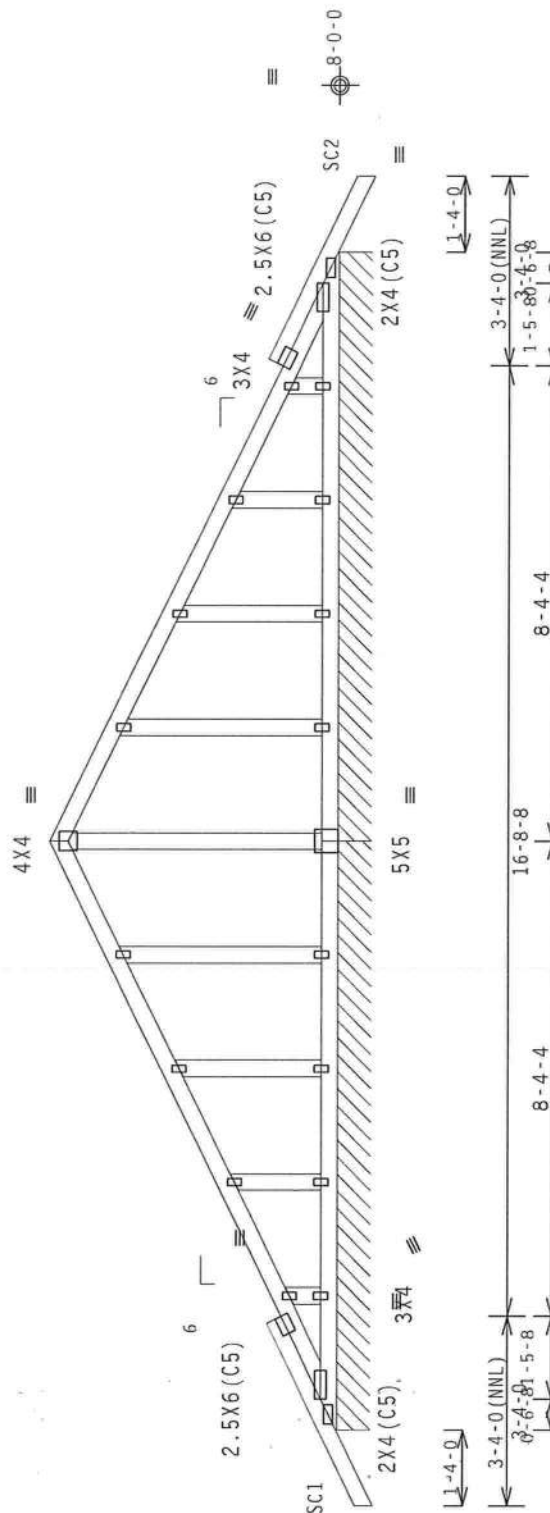
Wind loads and reactions based on MWFRS with additional C&C member design.

See DWGS A12015ENC100212, 68LLETIM0212, & GABRSTI00212 for more requirements.

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. Creep increase factor for dead load is 1.50.



20-8-8 Over 2 Supports

R=196 PLF U=0 PLF W=10-4-4

R=163 PLF U=2 PLF W=10-4-4

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007 (STD)
 FT/RT=10%(0%) / 0(0)

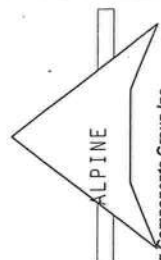
PLT TYP. Wave

FL / - / 4 / - / R / -

Scale = .3125" / Ft.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
 FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of the BCSI (Building Components Systems Inc.) Manual for all 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 B3, B7 or B10, as applicable.
 TPI Building Components Group Inc. (TIBCO) shall not be responsible for any deviation from the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, 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 drawing or cover page listing this drawing, indicates acceptance of professional engineering structure is the responsibility of the building designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page; TIB-BCSI: www.tibco.com; TPI: www.tpi.net; RTES: www.sbcindustry.com; ICC: www.iccsafe.org



Haines City, FL 33844
 FL COA #0 278

TC LL	20.0 PSF	REF	R9114- 71711
TC DL	10.0 PSF	DATE	10/31/12
BC DL	10.0 PSF	DRW	HCUSR9114 12305006
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEON-	285711
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UQS9114Z04

10/31/2012

(12-175--Fill in later Will Robinson Residence -- Lake City, FL - AGE 35'-6" Common)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

: Stack Chord SC1 2x4 SP M-30::Stack Chord SC2 2x4 SP M-30:

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

Gable end supports 8" max rake overhang.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

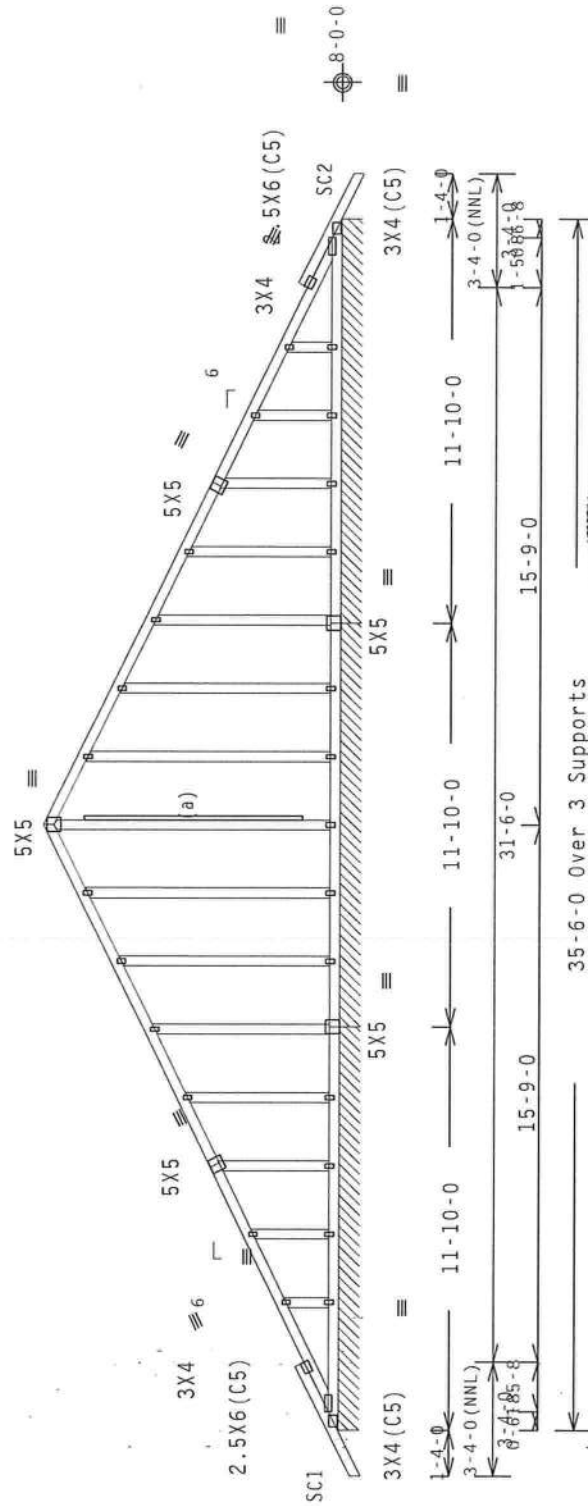
Wind loads and reactions based on MWFRS with additional C&C member design.

See DWGS A12015ENC100212, 68LLETIN0212, & GABRST100212 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 TC @ 24" OC.

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



R=196 PLF U=2 PLF W=11-10-0

R=213 PLF U=0 PLF W=11-10-0

RI=13/-13 PLF

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007 (STD)

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

PLT TYP. Wave

10.03 11.0208 20

FL / - / 4 / - / R / -

Scale = .1875" / Ft.

(12-175--Fill in later
Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
webs 2x4 SP #3

(a) Continuous lateral bracing equally spaced on member.

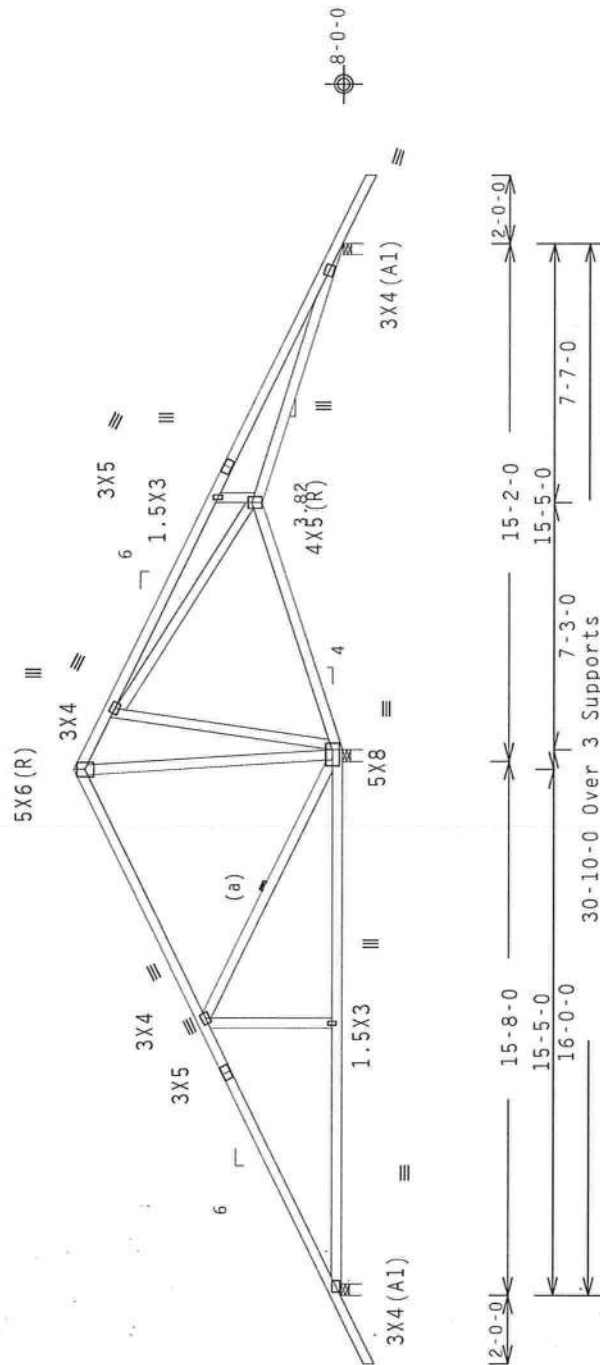
MMWFRS loads based on trusses located at least 15.00 ft. from roof edge.

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

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

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

Shim all supports to solid bearing.

 $R=639 \quad U=0 \quad W=4''$

RL=143/-143

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STP
 $FT/RT=10\%(0\%)/0(0)$

Scale = .1875"/Ft.

TC LL	20.0	PSF	REF	R9114- 71715
TC DL	10.0	PSF	DATE	10/31/12.
BC DL	10.0	PSF	DRW	HCUSR9114 12305003
BC LL	0.0	PSF	HC-ENG	JB/WPF
TOT.LD.	40.0	PSF	SEQN-	287354
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1UQS9114Z04

No. 22839

No. 22839



10/31/2012

Haines City, FL 33844
FL COA #0 278

(12-175--Fill in later
Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
webs 2x4 SP #3

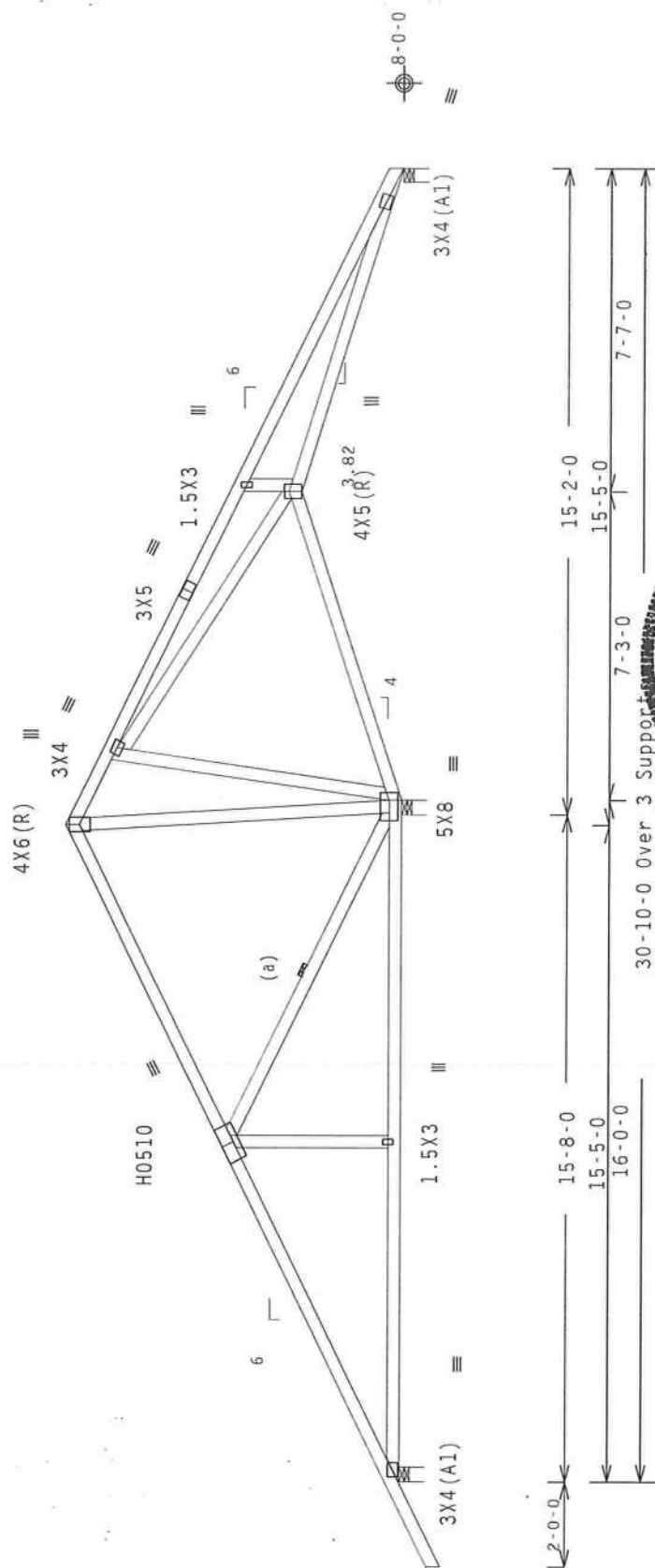
(a) Continuous lateral bracing equally spaced on member.

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

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

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

Shim all supports to solid bearing.

 $R=6.36 \quad I=0 \quad W=4"$

RL=125/-132

Design Crit: FBC2010Res/TPI-2007(STD
FT/RT=10%(0%)/0(0)

PLT TYP. 20 Gauge HS, Wave

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

Scale = .25"/Ft.

****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. We recommend that all trusses and all BCL (Building Components) Safety Information, by TPI and MICA for Safety and Bracing, be read and understood by the fabricator, shipper, erector and temporary bracing personnel. The following information is for reference only. The trusses are to be erected and braced in accordance with the instructions noted otherwise. Top chord shall have properly attached diagonal bracing. The bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCL sections B3, B7 or B10, as applicable.

[illegible][illegible]

STATE OF

5

FLORIDA

Logo of the American Society of Human Genetics (ASHG). The logo is circular with the text "AMERICAN SOCIETY OF HUMAN GENETICS" around the perimeter and "1964" in the center.

INTERNATIONAL EN

10/31/2012

210217201

(12-175--Fill in later
Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
webs 2x4 SP #3

(a) Continuous lateral bracing equally spaced on member.

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

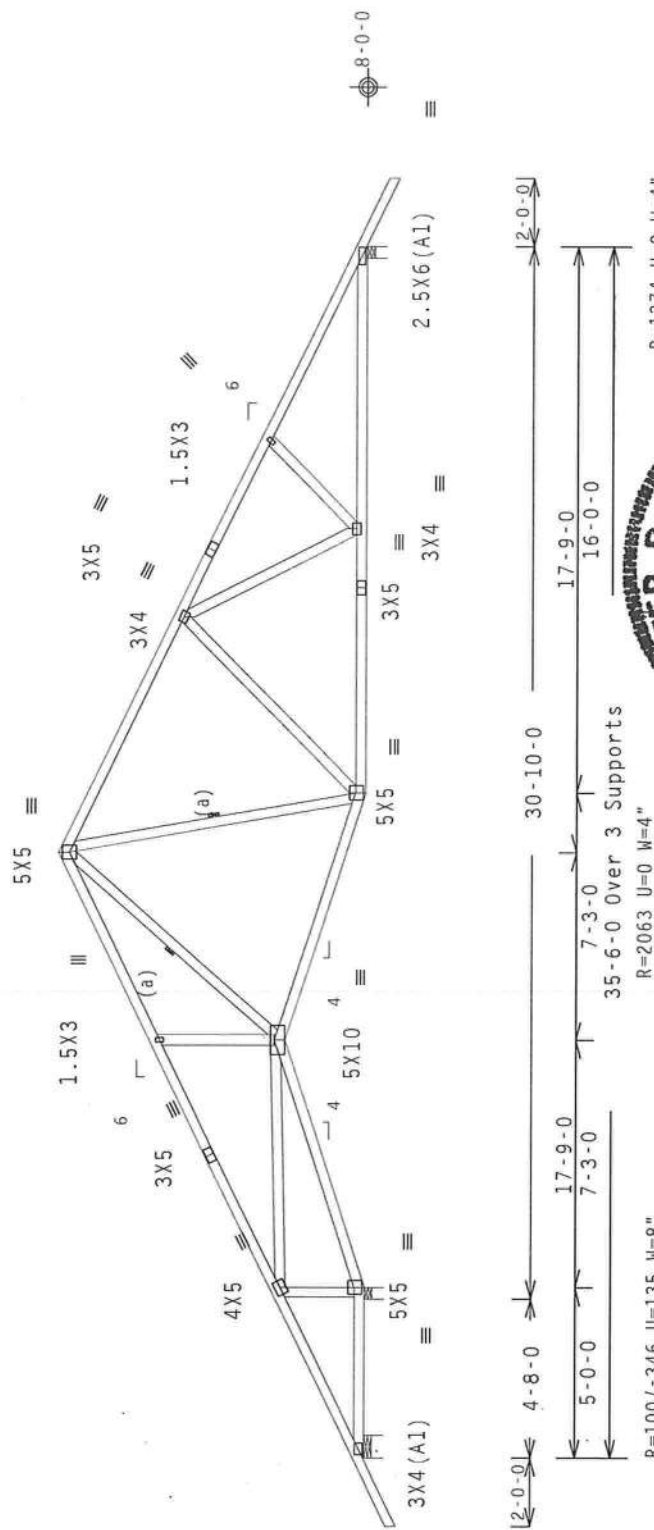
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

120 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



R=1374 II=0 W=4"

R=100/-346 U=135 W=8"

RL=165/-165

Design Crit: FBC2010Res/TPI-2007 (STD
FT/RT=10%(0%)/0(0))

PLT TYP. Wave

FL 1-141-1-1R1-

Scale = 1875"/Ft

****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. Follow the latest edition of the BCS Installation Manual, by TPI and WCA, for the most complete information on these functions. Installers shall install the trusses in accordance with the practices 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 bracing shall have bracing installed per BCS sections B3, B7 or B10, as applicable.

[illegible]

REF R0114- 71717

IT/IT/ LITCN 17X

DATE 10/31/12

MDU 11080114 1320E00E

МВЛ 12303007 47159174

HC-ENG JB/WPF

0700

507/87

REF- 1U0S9114Z04

(12-175--Fill in later Will Robinson Residence -- Lake City, FL - AVG 35'-6" Gable)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #1:

Brg blocks: 0.131"x3", min. nails
Brg x-loc. #blocks length/bk wall plate
4 19-500" 12" Rigid Surface
Brg block to be same size and species as chord.
Refer to drawing CENAILSP0109 for more information.

Gable end supports 8" max rake overhang.

See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

Negative reaction(s) of -205# MAX. (See below) from a non-wind load case requires uplift connection.

120 mph wind. 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg. Located anywhere in roof. RISK CAT II. EXP B. wind TC DL=5.0 psf, wind BC DL=5.0 psf. 6Cp1(+/-)=0.18

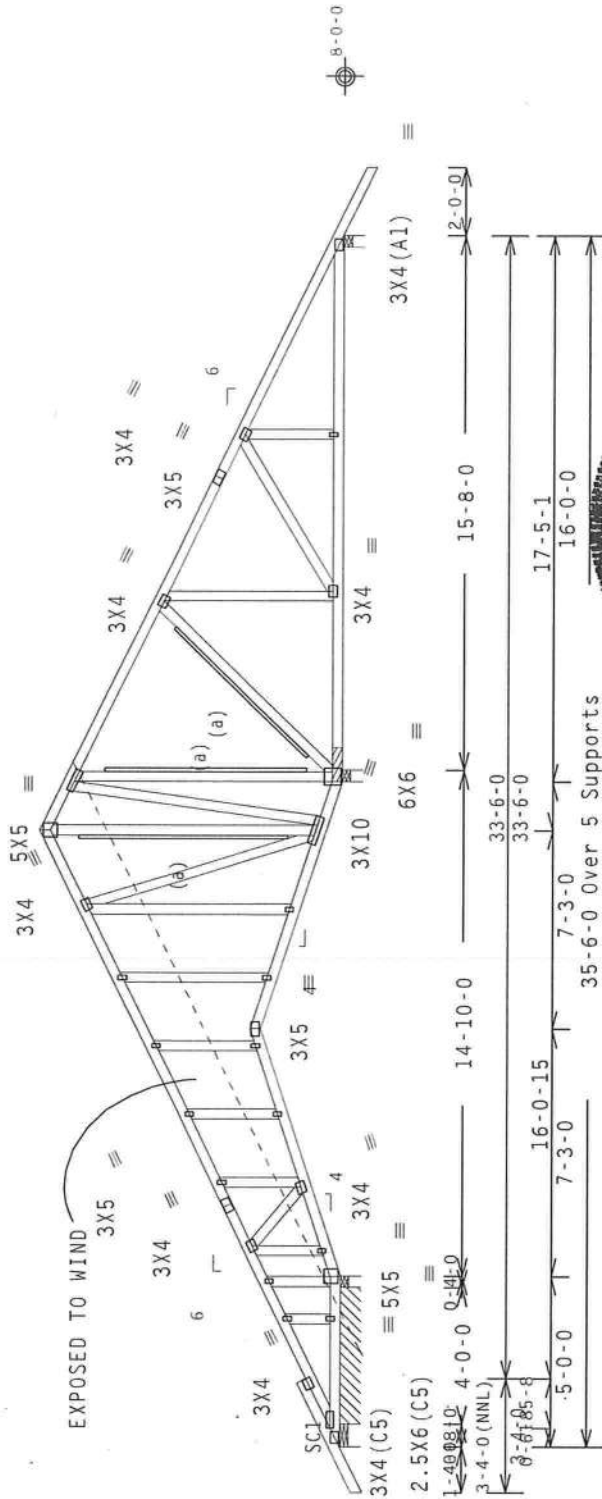
Wind loads and reactions based on MWFRS with additional C&C member design.

(a) 1x4 #35RB SPF-S or better "L" brace, 80% length of web member. Attach with Bd Box or Gun (0.113"x2.5" min.) nails @ 8" OC.

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

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

2.5X8



R=100/-194 U=105 W=8"

R=16/-51 PLF U=18 PLF W=4-0-0

RL=162/-158

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007 (STD)

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

PLT TYP. Wave

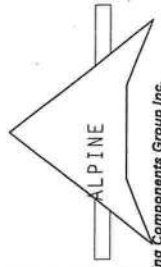
FL/-4/-/-R/-

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R9114- 71718
TC DL	10.0 PSF	DATE	10/31/12
BC DL	10.0 PSF	DRW	HCUSR9114 12305008
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	285806
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1U0S9114Z04



****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. Follow the latest edition of BCSI (Building Component Safety) information by TPI and 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 B3, B7 or B10, as applicable.
ITD Building Components Group Inc. (ITD/BCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint in the drawing 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 general notes page: ITN-BCG: WWW.ITNBG.COM; TPI: WWW.TPI-INST.ORG; ITEA: WWW.SBCINDUSTRY.COM; IEC: WWW.LCCSAFE.ORG



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

(12-175--Fill in later Will Robinson Residence -- Lake City, FL - CCG 20'x8' Common Girder)

Top chord 2x4 SP #1
Bot chord 2x6 SP #5
Webs 2x4 SP #3

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg. Located anywhere in roof. RISK CAT II. EXP B. wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

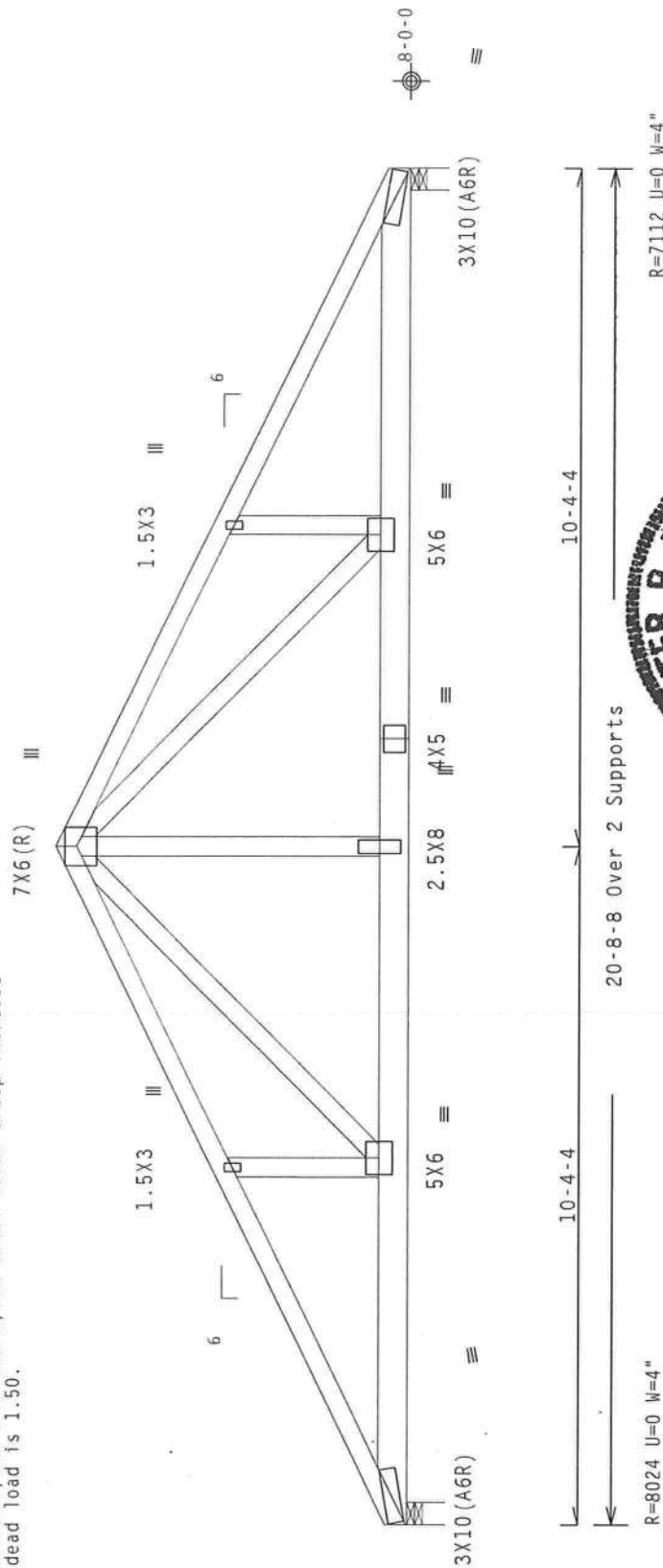
Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

3 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 4.50" o.c. (Each Row)
Webs: 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 62 plf at 0.00 to 62 plf at 10.35
TC- From 62 plf at 10.35 to 62 plf at 20.71
BC- From 10 plf at 0.00 to 10 plf at 18.66
BC- From 20 plf at 18.66 to 20 plf at 20.71
BC- 1361.61 lb Conc. Load at 0.66, 2.66, 4.66, 6.66
8.66, 10.66, 12.66, 14.66, 16.66, 18.66



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (ST)
FT/RT=10% (0%) / 0 (0)

Scale = .375"/ft.



REF	R9114- 71719
DATE	10/31/12
DRW	HCUSR9114 12305009
HC-ENG	JB/WPF
SEQN	285772
JREF	1UQS9114Z04

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"

Alpine
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. Follow the latest edition of BCSI (Building Component Safety) Information by TPI and BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bracing. BCSI shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint 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 any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the drawing. ITWBCG shall not be responsible for any deviation from 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: general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; NTC: www.ntcindustry.com; ICC: www.iccsafe.org

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:

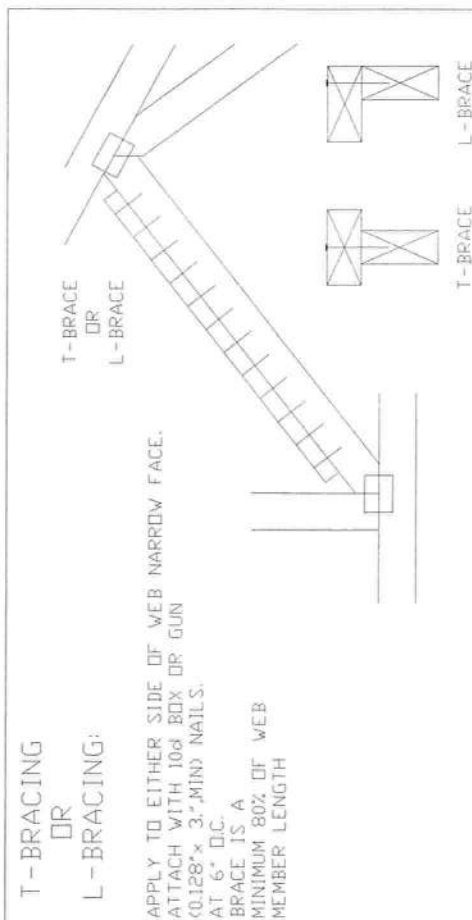
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED
CLCB: SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB
BRACING.

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(※)

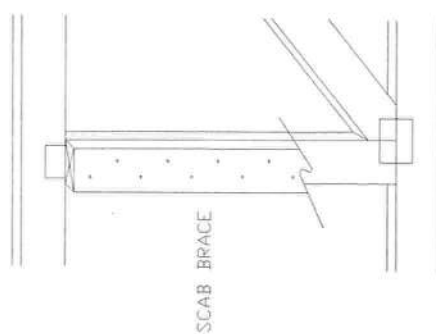
T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB-MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

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



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 and installing. Follow BCSI (Building Component Safety) Information, by the manufacturer, for proper handling and installing instructions. Performers performing these functions. Installers shall provide temporary bracing and shoring to support the trusses until the permanent bracing is in place. Top chord shall have properly attached structural members to support the trusses. Trusses shall be properly supported and braced until the permanent bracing is in place. Locations shown for permanent bracing attached per BCSI sections B3 & B7. See this job for details.

*****IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR**
 ITW Building Components Group Inc. (ITWBCG) shall not be responsible for a design, any failure to build the trusses in conformance with IPI, or fabrication and installation of the trusses. ITWBCG connector plates are made of 20ksi yield strength A36 steel. Truss chord members are made of 50ksi yield strength A572 Grade 50 steel. Apply plates to each face of truss members on joint details.

11W-BCC: www.kabcg.com; TPI: www.tpinet.com; WFA: www.sbmindustry.com; ICC: www.iccsafe.org

No. 22839

A circular professional engineer seal for the State of Florida. The outer ring contains the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by dots. In the center, there is a stylized graphic of a sun rising over a body of water with a bridge.

10/31/2012

REF CIB SURST

DATE 1/1/09

DRWG BRCLBSUB0109

35d

FSD

FSD

356

370

5

TABLE 11

TC DL

BC DL

BC LL

—

513

DUR. FAC.

SPACING

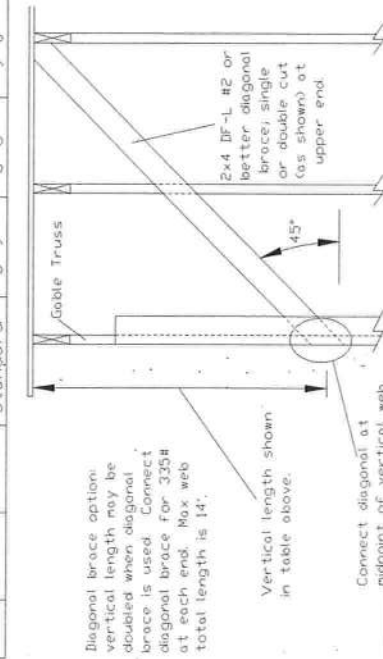
Gable Stud Reinforcement Detail

ASCE 7-10: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 100

Dr: 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 100

Gable Vertical Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *				(2) 2x4 "L" Brace *				(1) 2x6 "L" Brace **				(2) 2x6 "L" Brace **			
			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
SPF HF Standard	#1 / #2	4' 10"	8' 2"	8' 6"	9' 8"	10' 1"	11' 6"	11' 5"	11' 5"	11' 5"	12' 0"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#3	4' 7"	7' 9"	8' 3"	9' 7"	9' 11"	11' 5"	11' 5"	11' 5"	11' 5"	11' 10"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Stud	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 5"	11' 5"	11' 5"	11' 10"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 5"	11' 5"	11' 5"	11' 10"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SP DFL Standard	#1	4' 11"	8' 3"	8' 7"	9' 9"	10' 1"	11' 7"	12' 1"	12' 1"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#2	4' 10"	8' 2"	8' 6"	9' 8"	10' 1"	11' 6"	12' 0"	12' 0"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#3	4' 7"	6' 11"	7' 4"	9' 3"	9' 10"	11' 5"	11' 5"	11' 5"	11' 5"	11' 10"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Stud	4' 7"	6' 11"	7' 4"	9' 3"	9' 10"	11' 5"	11' 5"	11' 5"	11' 5"	11' 10"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SPF HF Standard	#1 / #2	4' 7"	6' 0"	6' 4"	8' 0"	8' 6"	10' 10"	10' 10"	10' 10"	10' 10"	12' 6"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#3	5' 6"	9' 5"	9' 9"	11' 1"	11' 6"	13' 2"	13' 2"	13' 2"	13' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Stud	5' 3"	9' 3"	9' 7"	10' 11"	10' 11"	13' 0"	13' 0"	13' 0"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	5' 3"	9' 3"	9' 7"	10' 11"	10' 11"	13' 0"	13' 0"	13' 0"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SP DFL Standard	#1	5' 8"	9' 5"	9' 9"	11' 1"	11' 6"	13' 2"	13' 2"	13' 2"	13' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#2	5' 6"	9' 5"	9' 9"	11' 1"	11' 6"	13' 2"	13' 2"	13' 2"	13' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#3	5' 3"	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 0"	13' 0"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Stud	5' 3"	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 0"	13' 0"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SPF HF Standard	#1 / #2	6' 1"	10' 4"	10' 8"	12' 2"	12' 8"	13' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#3	5' 9"	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Stud	5' 9"	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	5' 9"	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SP DFL Standard	#1	6' 2"	10' 5"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#2	6' 1"	10' 4"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#3	5' 9"	9' 9"	10' 5"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Stud	5' 9"	9' 9"	10' 5"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



Diagonal brace option:
vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 325# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web

Refer to chart above for gable vertical length.

Refer to chart above for gable vertical length.

*****WARNING***** READ AND FOLLOW ALL NOTES ON THIS DRAWING. 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 VITAC for 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 trusses shall have bracing installed per BCSI sections 83, 87 or 89, as applicable. Apply plates to each end of truss and connect to the joint details, unless noted otherwise. Refer to drawings 1604-2 for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, or failure to follow the truss, in accordance with ANSI/TPI 1, or for handling, shipping, installation & failure of the truss, or any other component, or for any other reason. The responsibility of the professional engineering responsibility solely for the design shown. The suitability and use of this drawing 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 and these web sites: ITWBCG www.itwbcg.com, TPI www.tpiinc.org, MTCA www.mtcaindustry.org, ICC www.iccsafe.org

*****IMPORTANT***** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

WALTER P. FIANN
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/31/2012

Bracing Group Species and Grades:

Group A:		Group B:	
Spruce-Pine-Fir	Hea-Fir	Spruce-Pine-Fir	Hea-Fir
#1 / #2	#2	#1 / #2	#2
Standard	Standard	Standard	Standard
#3	Standard	#3	Standard

Douglas Fir-Larch

#1	Standard	#1	Standard
#2	Standard	#2	Standard

Douglas Fir-Larch

#1	Standard	#1	Standard
#2	Standard	#2	Standard

Douglas Fir-Larch

#1	Standard	#1	Standard
#2	Standard	#2	Standard

Douglas Fir-Larch

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240

Provide uplift connections for 35 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outliners with 2' 0" overhang, or 12" plywood overhang.

So. Pine lumber design values based on the ALSC January, 2012 rule

Attach "L" braces with 10d (0.128"x3.0" min) nails.

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 Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	25X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

REF	ASCE7-10-GABI2015
DATE	2/14/12
DRWG	A12015ENC100212

MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"



Earth City, MO 63045

ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

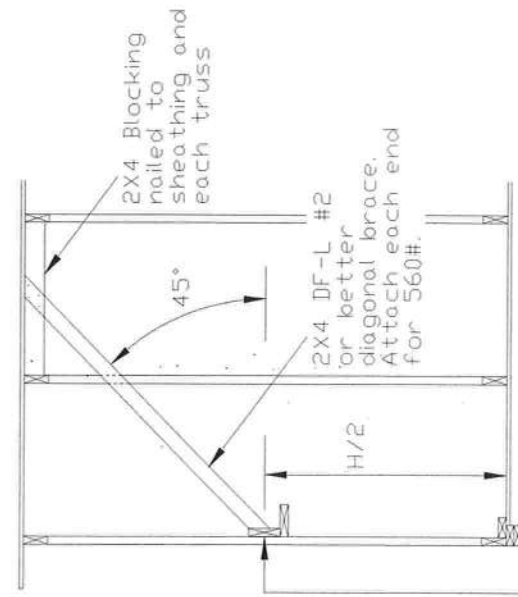
120 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

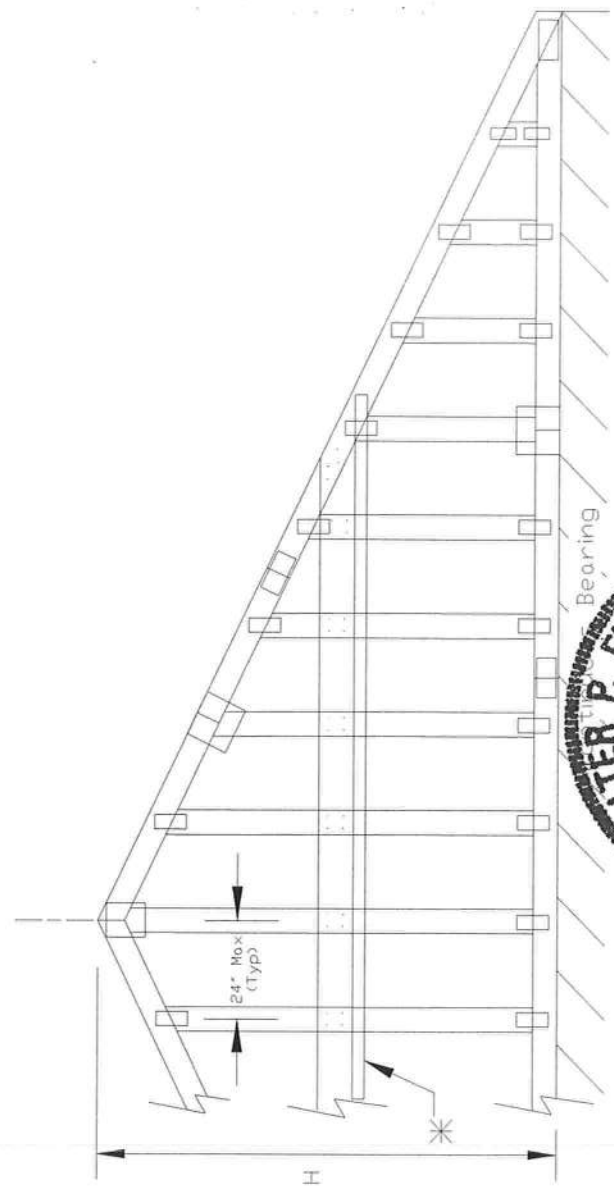
See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

Nails: 10d box or .gun (0.128"x3",min) nails.

- H Less than 4'6" - no stud bracing required
- H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC10).
- H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC10).
- * Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



2x6 #2 Stiffback
attached to each
Stud w/ (4) 10d box or gun (0.123" x 3", min.) nails.



WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/31/2012

MAX. TOT. L.D. 60 PSF
MAX. SPACING

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING.
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extreme care in fabrication, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) 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 blocking. Webs shall have bracing installed per BCSI 83.7 and 84.0 for permanent lateral resistance. Each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 180A-2 for standard plate positions.
ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing. Failure to build trusses in accordance with this drawing and/or failure to follow the bracing of trusses. A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec2. ITWBCG www.itwbcg.com, TPI www.tpi.org, WCA www.bcmindustry.org, ICC www.iccsafe.org



Earth City, MO 63045

REF	GE	WHALE
DATE	2/14/12	
DRWG	GABRST100212	

NAIL SPACING DETAIL

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

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

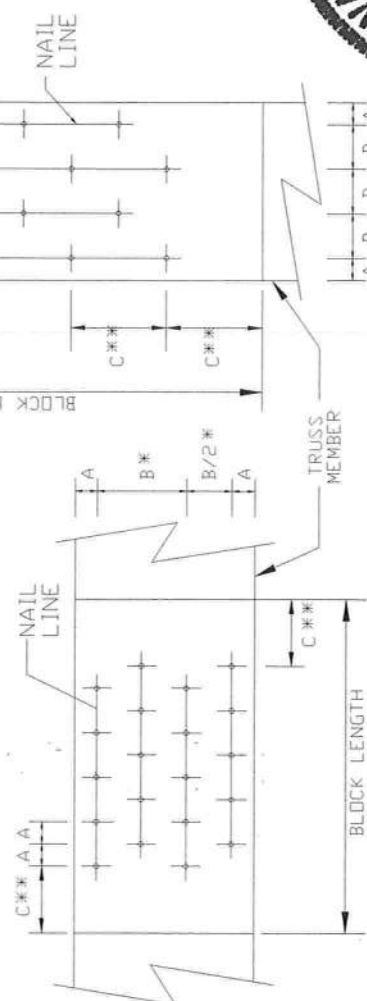
IF NAIL HOLES ARE PREBORED, SOME SPACING

MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%

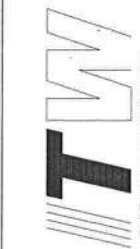
** SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the instructions on the TWC Building Components Group Inc. (TWCBCG) product literature for performing these functions. Trusses shall be installed in accordance with the TWCBCG literature. Otherwise, top chord shall have properly attached structural panels and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BEC 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) shall not be responsible for any deviation from the design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing or bracing of trusses. ITWBCG connector plates are made of 2018/ADA (K/H/S/K) ASTM A36 steel and are galvanized. Apply plates to each face of truss, positioned as shown and on joint details.

A seal on this drawing or cover page indicates acceptance and 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.

ITW-BGC www.itwbcg.com, TPI www.tpi.com, WICA www.wicaind.com, ICC www.iccsafe.org

Earth City, MO 63045

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"	1"

