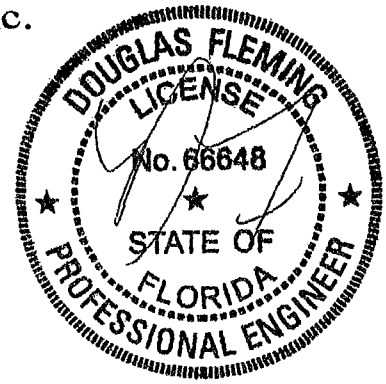


# ITW Building Components Group, Inc.

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 1V0Z215-Z0104092202



11/04/2013

Douglas Fleming  
-Truss Design Engineer-

1950 Marley Drive  
Haines City, FL 33844

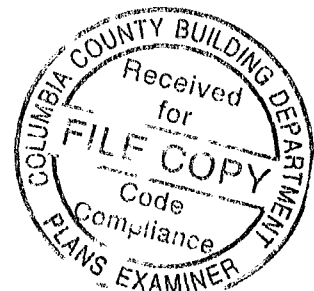
Truss Fabricator **W.B. Howland**  
Job Identification **8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL**  
Truss Count **22**  
Model Code **Florida Building Code 2010**  
Truss Criteria **FBC2010Res/TPI-2007(STD)**  
Engineering Software **Alpine Software, Version 12.03.**  
Structural Engineer 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: HCUSR215

Details: 12015EC1-GBLLETIN-GABRST10-BRCLBSUB-12030EC1-

#	Ref	Description	Drawing#	Date
1	86827--A		13308001	11/04/13
2	86828--A1		13308002	11/04/13
3	86829--B		13308003	11/04/13
4	86830--B1		13308004	11/04/13
5	86831--B2		13308005	11/04/13
6	86832--B3		13308006	11/04/13
7	86833--C		13308007	11/04/13
8	86834--C1		13308008	11/04/13
9	86835--D		13308009	11/04/13
10	86836--D1		13308010	11/04/13
11	86837--H		13308011	11/04/13
12	86838--H1		13308012	11/04/13
13	86839--H2		13308013	11/04/13
14	86840--J		13308014	11/04/13
15	86841--J1		13308015	11/04/13
16	86842--J2		13308016	11/04/13
17	86843--J3		13308022	11/04/13
18	86844--K		13308017	11/04/13
19	86845--K1		13308018	11/04/13
20	86846--K2		13308019	11/04/13
21	86847--M1		13308020	11/04/13
22	86848--M		13308021	11/04/13



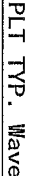
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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

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

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

factor for dead load is 1.50.



Design Crit. FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

$$\text{FT/RT} = 20\% (0\%) / 10 (0)$$

12.03.03 14:22

QTY:8 FL/-/1/-/-/R/-

Scale = .1875"/Ft.

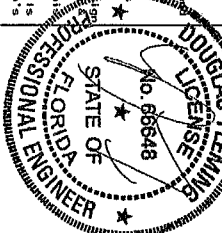
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

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

# ALPINE

**ITW Building Components Group Inc.**

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF	R215-- 86828
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCSR215 13308002
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384588
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - B)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

See DWGS A12015ENC100212, GBLLET100212, & GABRST100212 for more requirements.

(a) Continuous lateral restraint equally spaced on member  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

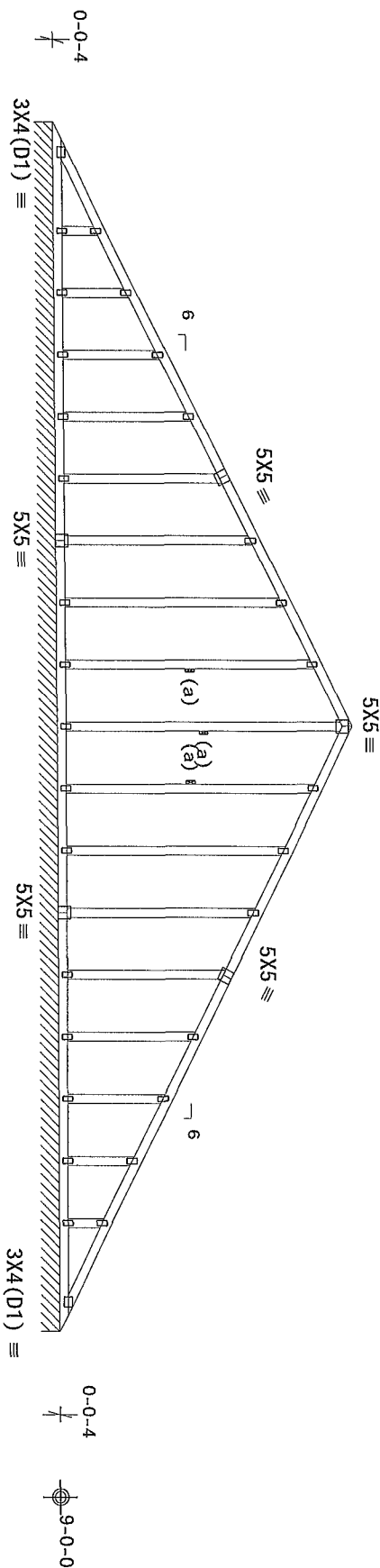
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $GCP(+/ -) = 0.18$

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

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

The overall height of this truss excluding overhang is 9-9-4

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



R=80 PLF U=0 PLF W=39-0-0  
RL=4/-4 PLF

Note: All Plates Are 2X4 Except As Shown.

PLT TYP. Wave

Design Cr:it: FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.03

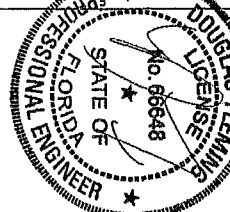
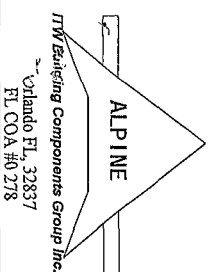
QTY: 1 FL/-/1/-/1/-/

Scale = .1875"/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. Refer to the latest edition of BCSI (Building Component Safety) Informant on by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached structural sheathing. All trusses shall be braced laterally. Trusses 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 drawing or for any damage to the building or its contents. The ITWBCG shall be responsible for the design of the truss and for the use of this design for any structure. The responsibility of the building designer shall be to provide the necessary information for the design of the truss. The ITWBCG shall not be responsible for the design of the building or for the use of this design for any structure. The responsibility of the building designer shall be to provide the necessary information for the design of the truss. The ITWBCG shall not be responsible for the design of the building or for the use of this design for any structure. The responsibility of the building designer shall be to provide the necessary information for the design of the truss.



TC LL	20.0 PSF	REF R215-- 86829
TC DL	10.0 PSF	DATE 11/04/13
BC DL	10.0 PSF	DRW HCUR215 13308003
BC LL	0.0 PSF	HC-ENG KD/DF
TOT. LD.	40.0 PSF	SEQN- 384592
DUR. FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1V0Z215_Z01

11/04/2013

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

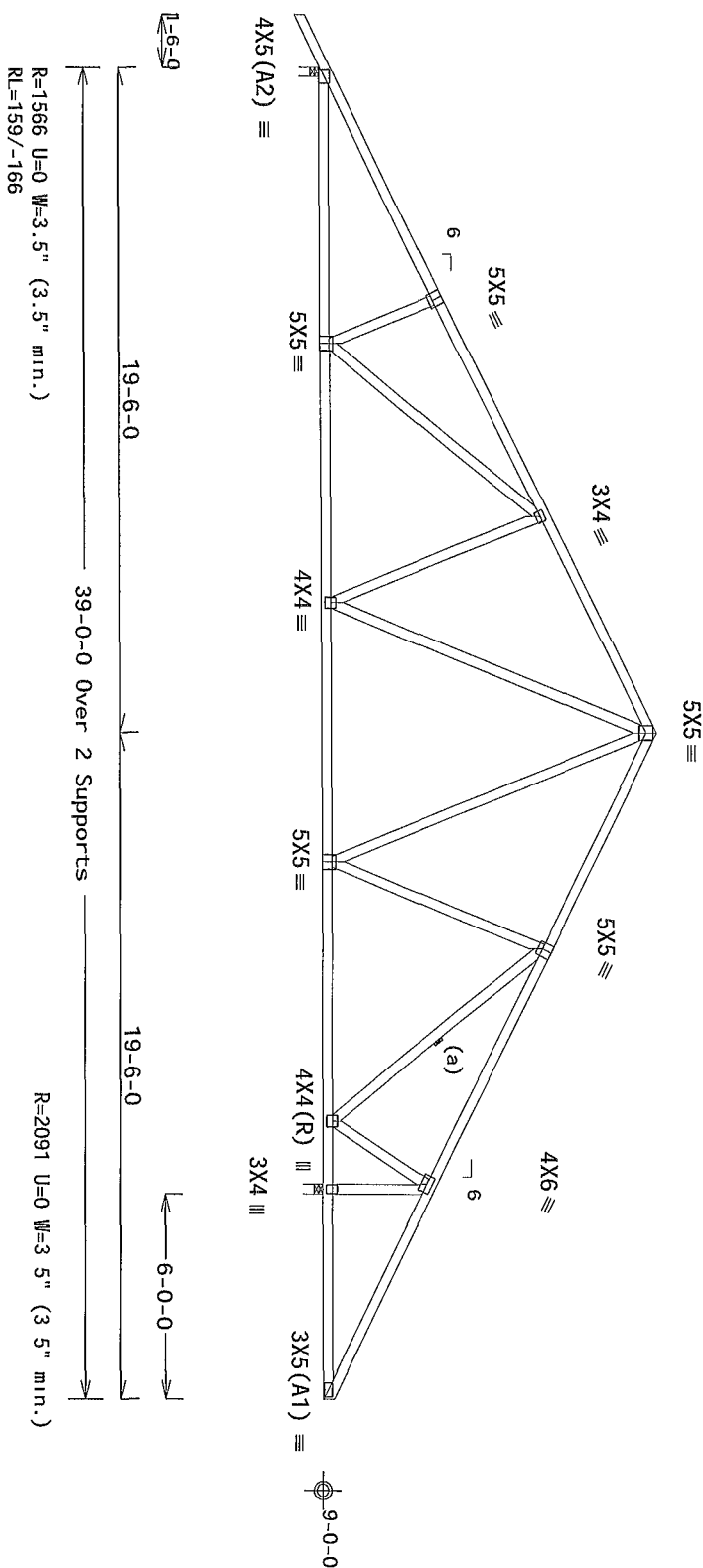
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

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

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

The overall height of this truss excluding overhang is 10-1-3.

MWFRS loads based on trusses located at least 15 00 ft from roof edge.



Design Crit: FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

Scale = .1875"/Ft.

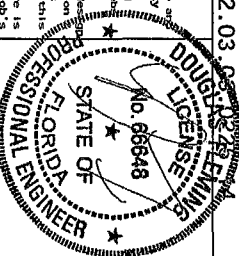
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Those require someone care in fabricating, handling, installing, and bracing. Refer to the latest edition of BCSI (Building Component Safety Information by TPI and WFO) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly installed rigid ceiling. Locations for permanent lateral restraint or wind shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.

## ALPINE

ITW Ceiling Components Group Inc.

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF	R215-- 86830
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCSR215 13308004
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT. LD.	40.0 PSF	SEON-	384S95
DUR. FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

11/04/2013

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

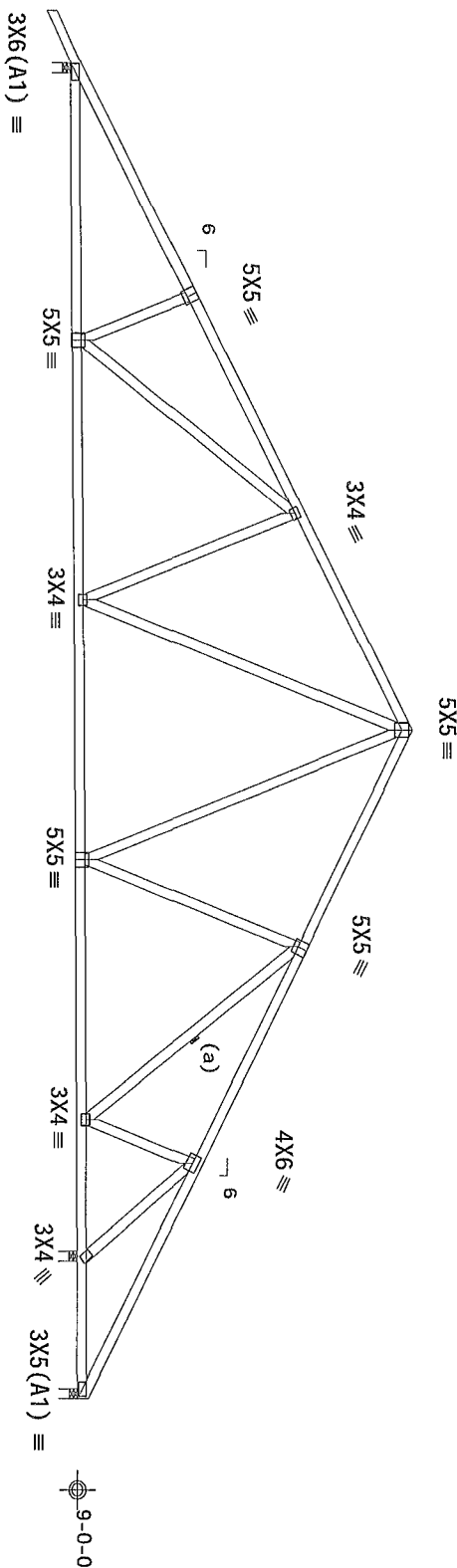
Negative reaction(s) of -261# MAX. (See below) from a non-wind load case requires uplift connection.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Gcpi (+/-)=0.18

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

The overall height of this truss excluding overhang is 10-1-3.

The overall height of this truss excluding overhang is 10-1-3.



R=1881 U=0 W=3.5" (3.5" min.)  
R=56/-261 U=115 W=3.5" (3.5" min.)

Design Crit. FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

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

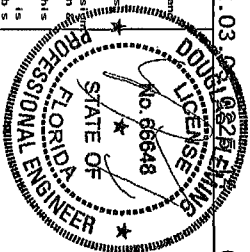
Scale = .1875"/Ft.

Trusses require attention care in fabricating, handling, shipping, installing and bracing. Refer to any of the following references for more information: *Truss Design and Construction* by TPI and WIDA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly installed rigid deck. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections E3, E7 or E10 as applicable.

# ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF	R215-- 86831
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 1308005
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384598
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

11/04/2013



(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - C)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

(a) Continuous lateral restraint equally spaced on member.

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

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

The overall height of this truss excluding overhang is 10'-1.3'.

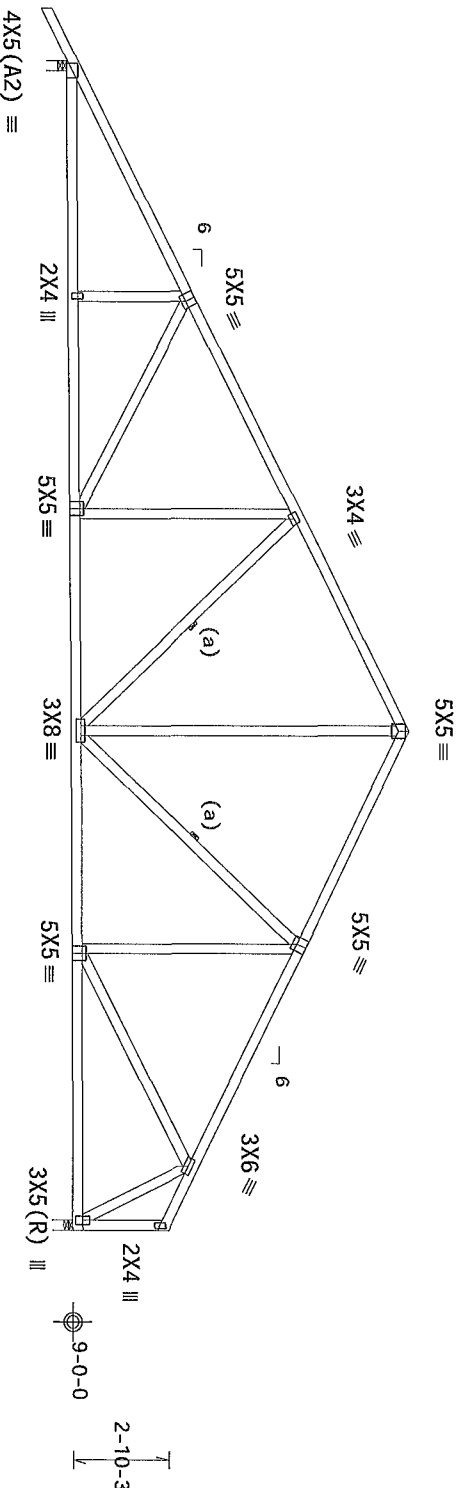
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 60psi (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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

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



19'-6-0" 34'-0-0" Over 2 Supports 14'-6-0"

R=1551 U=0 W=3.5" (3.5" min.)  
RL=145/-134

R=1466 U=0 W=3.5" (3.5" min.)

PLT TYP. Wave

Design Cr it: FBC2010Res/TPI-2007(STD)  
FT/RT=20% (0%)/10(0)

12.03.02

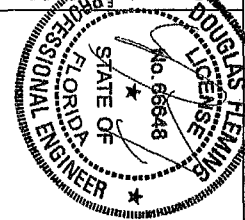
QTY:2 FL/-/1/-/0/R/-

Scale = .1875"/Ft.

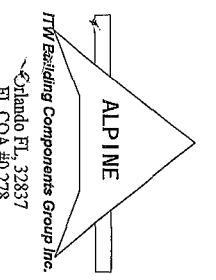
\*\*IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety) Information on by TPI and WTC. For safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web 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. any failure to build the truss in conformance with BCSI/TPI 1 or for handling, shipping, installing, or bracing of the truss. ITWBCG shall not be responsible for any deviation from this design. Drawing of 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. ITWBCG www.tlwg.com, TPI www.tpinet.org WTC www.steelindustry.com



TC LL	20.0 PSF	REF	R215--	86833
TC DL	10.0 PSF	DATE	11/04/13	
BC DL	10.0 PSF	DRW	HCSR215	13308007
BC LL	0.0 PSF	HC-ENG	KD/DF	
TOT. LD.	40.0 PSF	SEQN-	384607	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1V0Z215_Z01	



11/04/2013

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - C1)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

(a) Continuous lateral restraint equally spaced on member.

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

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

The overall height of this truss excluding overhang is 10'-1.3'.

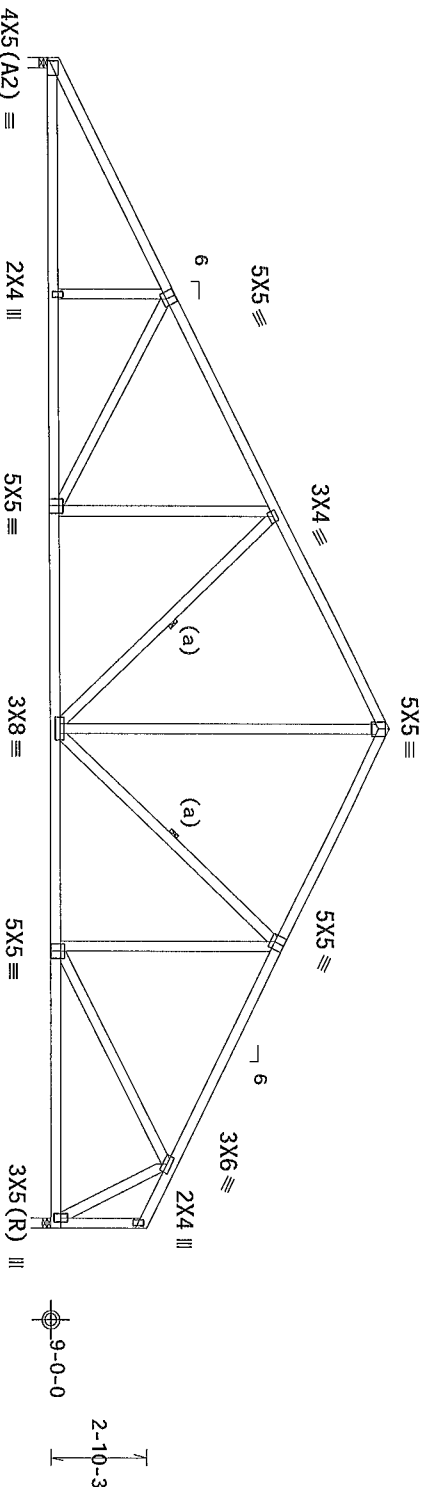
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCP1 (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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

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



19'-6'-0" 34'-0'-0" Over 2 Supports 14'-6'-0"

R=1448 U=0 W=3.5" (3.5" min.)  
RL=137/-119

R=1465 U=0 W=3.5" (3.5" min.)

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP. Wave

FT/RT=20%(0%)/10(0)

12.03.000000000000

QTY-1 FL/-/1/-/1/-/R/-

Scale = .1875"/Ft.

\*\*IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.

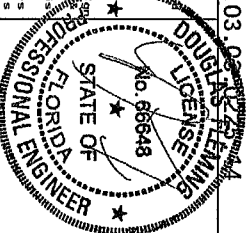
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCS1 (Building Component Safety) information on by TPI and WTC. For safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS1. 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 or web shall have bracing installed per BCS1 sections B5, B7 or B10 as applicable.

ITW Building Components Group, Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installing, or bracing the truss. The user of this design shall be responsible for any deviation from this design. Details unless noted otherwise. Refer to drawings 1600-2 for standard plate positions. A seal on this drawing or cover page listing this design shown 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. ITW-BCG www.itwbcg.com TPI www.tpiinc.org WTC www.steelindustry.com

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF	R215--	86834
TC DL	10.0 PSF	DATE	11/04/13	
BC DL	10.0 PSF	DRW	HCSR215	13308008
BC LL	0.0 PSF	HC-ENG	KD/DF	
TOT. LD.	40.0 PSF	SEQN-	384612	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1V02Z15_Z01	

11/04/2013



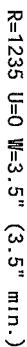
THIS DING PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15.47 ft mean hgt, ASCE 7-10, CLOSED bldg, located anywhere in roof, RISK CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 6cpl(+/-)=0.18

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

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

The overall height of this truss excluding overhang is 10-1-3.

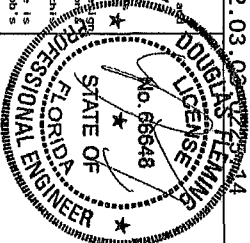


Scale = .25"/Ft.

These people estimate care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety) Information on by TPI and WFOA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid deck flooring. Locations shown for permanent lateral restraint of wall shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.

ITW Ealing Components Group Inc.

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF R215-- 86835
TC DL	10.0 PSF	DATE 11/04/13
BC DL	10.0 PSF	DRW HCUSR215 1330809
BC LL	0.0 PSF	HC-ENG KD/DF
TOT. LD.	40.0 PSF	SECM- 384616
DUR. FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1Y0Z215_Z01

11/04/2013

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS-MFR

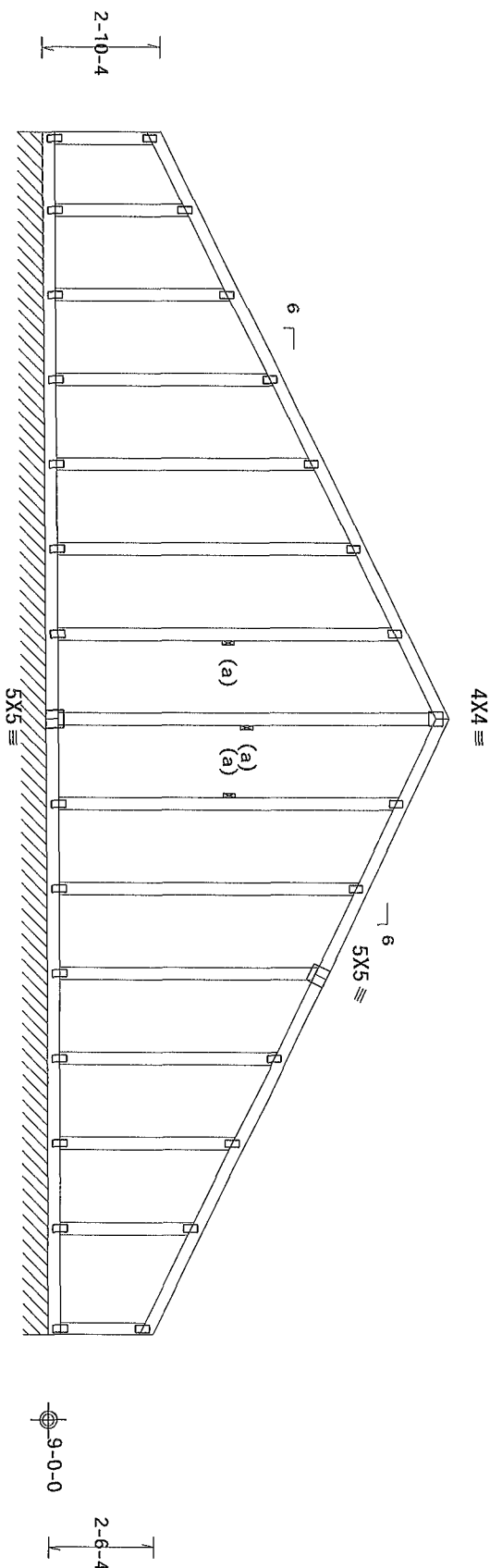
120 mph wind, 15.15 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Gcpl(+/-)=0.18

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

(a) Continuous lateral restraint equally spaced on member.

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

The overall height of this truss excluding overhang is 9-9-4.



13-10-0

28-4-0 Over Continuous Support

14-6-0

Design Crit: FBC2010Res/TP1-2007(STD)

$$FT/RT = 20\%(0\%) / 10(0)$$

12.03.05:032954

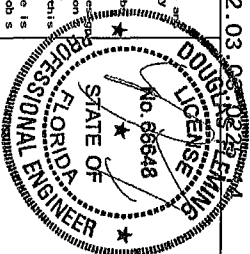
QTY.1	FL/-/1/-/-/R/-

Scale = .25"/Ft.

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

Tenues require came care in fabricating handling shipping installing and bracing Refer to safety follow the latest edition of BCSI Building Component Safety Information on by TPI and WFOA for safety practices prior to performing these functions Installers shall provide temporary bracing per BCSI standards not otherwise copy shown shall have properly attached structural sheathing and bottom chord shall have bracing installed rigid ceiling Locations shown for permanent lateral restraint or web shall have bracing installed per BCSI sections 83 B7 or 810 as applicable

**ALPINE**  
ITW Existing Components Group Inc.  
Orlando FL, 32837  
FL COA #0 278



TC LL	20.0 PSF	REF R215-- 86836
TC DL	10.0 PSF	DATE 11/04/13
BC DL	10.0 PSF	DRW HCURS215 13308010
BC LL	0.0 PSF	HC-ENG KD/DF
TOT. LD.	40.0 PSF	SEQN-- 384634
DUR. FAC.	1.25	FROM CDM
SPACING	24.0"	JREF-- 1V0Z215_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Bot	chord	2x6	SP	M-31
	Webs	2x4	SP	M-31

Wind loads and reactions based on MMFRS.

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

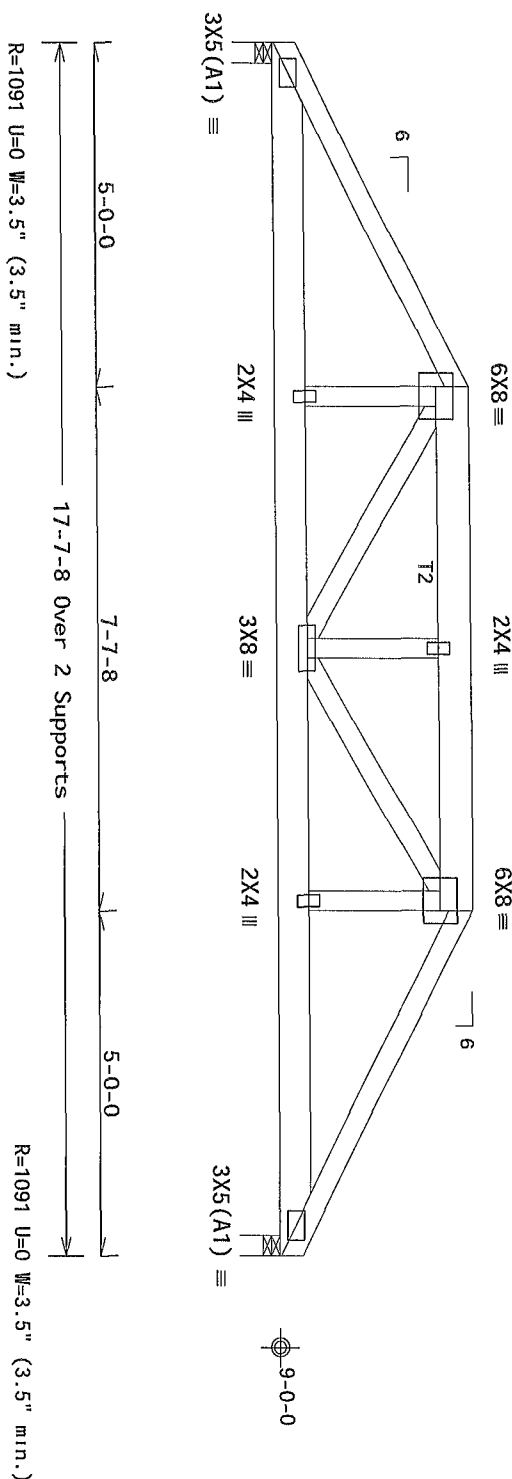
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 2-10-3.

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

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

Left side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.  
End jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.  
Right side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.



PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.03.0325 14

QTY.	FL/-/1/-/-/R/-

Scale = .375" / ft.

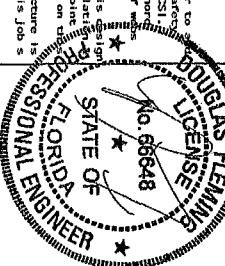
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLER

Trussess requires outcome care in fabricating hanging, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information) by TPI and WTCO for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid cold-rolled steel floor joist. Local area shown for permanent lateral restraint of wall shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.

# ALPINE

**ITW Engineering Components Group Inc**

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF	R215-- 86837
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HOURS215 13308011
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT. LD.	40.0 PSF	SEQN-	384568
DUR. FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

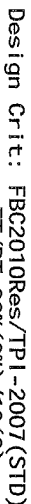
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bidg, not located within 4.50 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 MMFRS with additional C&C member design.

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


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


$$FT/RT=20\%(0\%)/10(0)$$
[illegible]

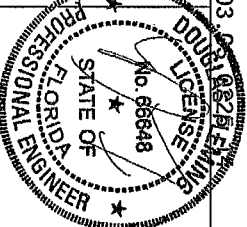
1 FL/-/1/-/-/R/-

Scale = .375"/Ft.

These requirements are in fabricating, handling, shipping, installing, and bracing. Refer to any applicable code for details. Follow the latest edition of BCSI (Building Component Safety) Information by TPI and WTA for safety practices or 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 of webs shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.



ALPINE

Orlando FL, 32837  
FL COA #0278

TC LL	20.0 PSF	REF R215-- 86838
TC DL	10.0 PSF	DATE 11/04/13
BC DL	10.0 PSF	DRW HCURS215 13308012
BC LL	0.0 PSF	HC-ENG KD/DF
TOT. LD.	40.0 PSF	SEQN- 384579
DUR. FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1V0Z215_Z01

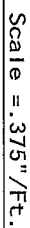
11/04/2013

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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 MMFRS with additional C&C member design.

The overall height of this truss excluding overhang is 4-9-1.



**ITW B. "ding Components Group Inc.**

Orlando FL, 32837  
FL COA #0278

**\*\*IMPORTANT\*\*** SUBMIT THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

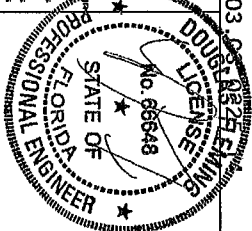
Trussco require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP (Building Component Safety) Information by TPI and WTCO for BCSP practices prior to performing these functions. Installers shall provide temporary bracing per BCSP.

Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSP sections 83, 87 or 810 as applicable.

JTW Building Components Group Inc. (JTWBCG) 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 any handling, shipping, installation, bracing of trusses. Apply plates to each face of Truss top and post c on as shown above and on the Joint Details unless noted otherwise. Refer to drawings TB60A-Z for standard plate positions. A seal on the bottom chord is required for all trusses. The suitability and use of this design for any structure is the responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Design team per ANSI/TPI 1 Sec 2. For more information see [www.trussco.com](http://www.trussco.com), [www.tb60.com](http://www.tb60.com), [www.tpi.net](http://www.tpi.net) or [www.abctindustry.com](http://www.abctindustry.com)

general notes page JTW-BCG [www.tb60.com](http://www.tb60.com), [www.tpi.net](http://www.tpi.net) WTCO [www.abctindustry.com](http://www.abctindustry.com)

COC [www.trussco.org](http://www.trussco.org)



TC LL	20.0 PSF	REF	R215-- 86839
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCSR215 13308013
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384582
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

11/04/2013

(8407-TRADEMARK/ HENTZELMAN /Contractor --- LAKE CITY, FL - J)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31

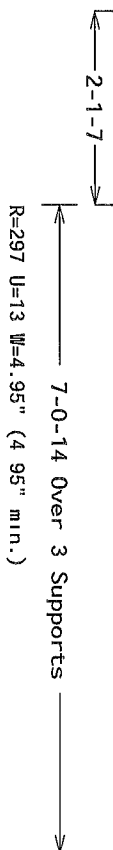
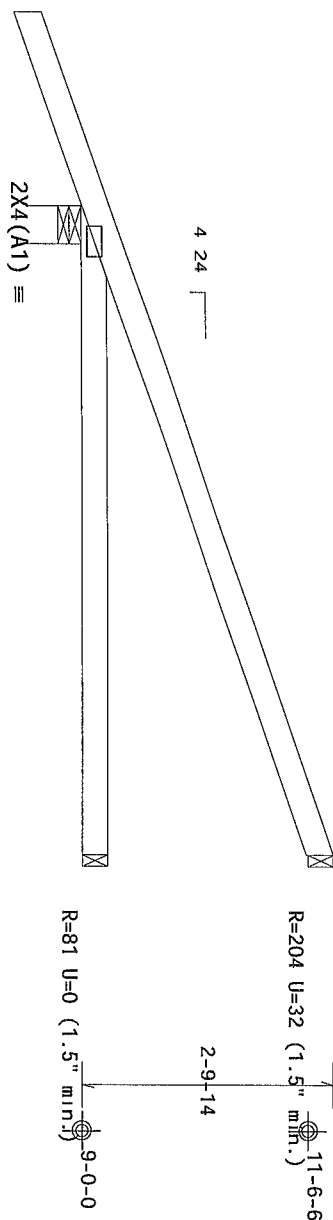
Wind loads and reactions based on MMFRS.

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

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

Hipjack supports 5-0-0 setback jacks with no webs.

The overall height of this truss excluding overhang is 2-9-14.

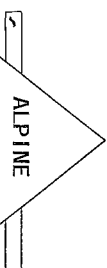


PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

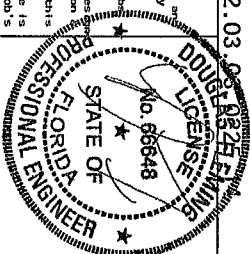
QTY. 2 FL/-/1/-/1/-/R/-

Scale = .5"/Ft.



OTLando FL, 32837  
FL COA #0278

**\*\*IMPORTANT\*\*** 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 BCS1 (Building Component Safety) information on by TPI and WTCO for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS1. 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 BCS1 sections 55, 57 or 510 as apply cable.  
TPI Building Components Group Inc. (TPI/BCG) 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, installation or bracing of the truss. The user of this design shall be responsible for the proper use of the design details unless noted otherwise. Refer to drawings 150A-Z for standard plate positions. A seal on this drawing or cover page listing this 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.tpi-bcg.com TPI www.tpiinst.org WTCO www.stcindustry.com ICC www.iccsafe.org



TC LL	20.0 PSF	REF	R215--	86840
TC DL	10.0 PSF	DATE	11/04/13	
BC DL	10.0 PSF	DRW	HOURS215	13308014
BC LL	0.0 PSF	HC-ENG	KD/DF	
TOT. LD.	40.0 PSF	SEQN-	384570	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1V0Z215_Z01	

11/04/2013

(8407-/TRADEMARK/ HENTZELMAN /Contractor --- LAKE CITY, FL - J1)

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31

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.

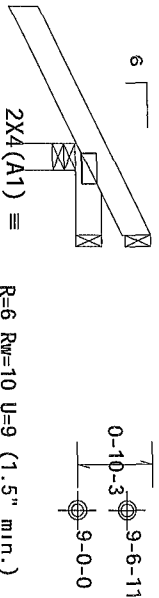
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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

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

The overall height of this truss excluding overhang is 0-10-3.

R=-55 Rw=16 U=39 (1.5" min.)



1-6-0-0  
1-0-0 Over 3 Supports  
R=245 U=22 W=3.5" (3.5" min)  
RL=20

Design Crit: FBC2010Res/TP1-2007(STD)

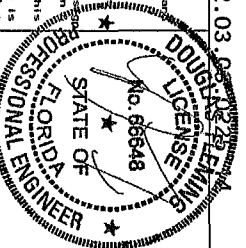
PLT TYP. Wave

\*\*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 any future to build the truss in conformance with ANSI/TP1 or for handling shipping installation details unless noted otherwise. Refer to drawings 1604-Z for standard plate positions. A seal on this drawing or cover page listing this design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TP1 Sec 2 For more information see this job's general notes page. ITW-BDC www.techlog.com ITW-BDC www.techlog.com ITW-BDC www.techlog.com

ALPINE

ITW Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0 278



QTY 4		FL/-/1/-/1/-/		Scale = .5" / Ft.	
TC LL	20.0 PSF	REF	R215--	86841	
TC DL	10.0 PSF	DATE	11/04/13		
BC DL	10.0 PSF	DRW	HCUSR215	13308015	
BC LL	0.0 PSF	HC-ENG	KD/DF		
TOT. LD.	40.0 PSF	SEQN-	384576		
DUR. FAC.	1.25	FROM	CDM		
SPACING	24.0"	JREF-	1V0Z215_Z01		

11/04/2013



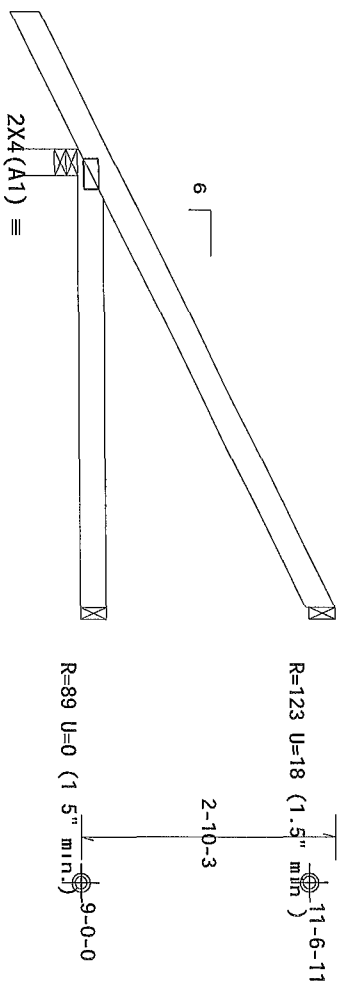


THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Gcpi (+/-)=0.18

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

The overall height of this truss excluding overhang is 2-10-3.



← 1-6-0 →  
← 5-0-0 Over 3 Supports →  
R=321 U=0 W=3.5" (3.5" min.)  
RL=53/-23

Design Crit.	FBC2010Res/TP1-2007(STD)	FT/RT=20%(0%)/10(0)

**12.03.03**

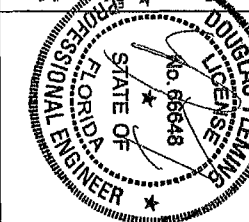
QTY:5	FL/-/1/-/-/R/-
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Scale = .5"/Ft.

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

Tenases require extreme care in fabricating handling, shipping, installing and bracing. Refer to safety instructions for details. Follow the latest edition of BCSI ([Building Component Safety Information](#)) by TPI and WTA for safety practices or refer otherwise to top chord shall have properly attached 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 of wall shall have bracing installed per BCSI sections R3, B7 or B10 as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. The user of this design shall be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping, installation, 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 680-2 for standard plate positions and dimensions. The user of this design shall be responsible for any deviation from this design. The responsibility solely for the design shown on this drawing shall be 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.tpi.net WTCA www.abctindustry.com ICC www.iccsafe.org



TC LL	20.0 PSF	REF R215-- 86843
TC DL	10.0 PSF	DATE 11/04/13
BC DL	10.0 PSF	DRW HCUR215 13308022
BC LL	0.0 PSF	HC-ENG KD/DF
TOT.LD.	40.0 PSF	SEQN- 384572
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1V02215_Z01

11/04/2013

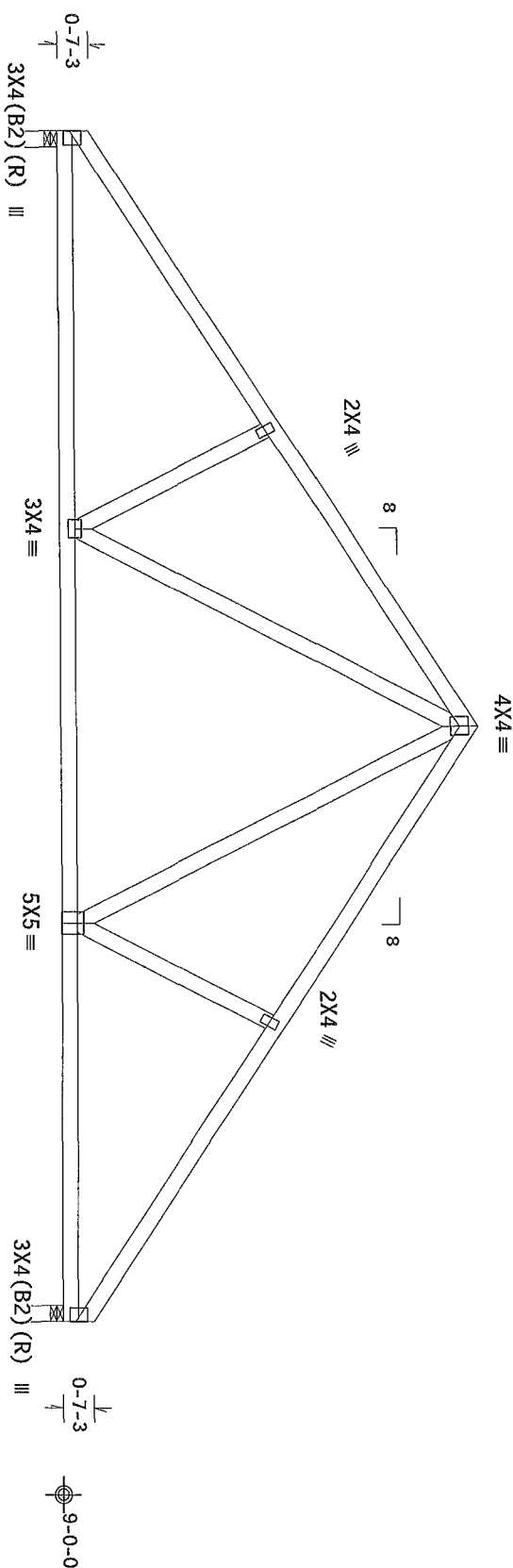
THIS DRAWING PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCp1 (+/-)=0.18

Wind loads and reactions based on MMFRS 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.

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



11'-0" 11'-0" 22'-0" Over 2 Supports R=948 U=0 W=3.5" (3.5" min.)  
R=949 U=0 W=3.5" (3.5" min.)  
R=1177/-117

Design Crit: FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.02

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

Scale = .3125"/Ft.

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

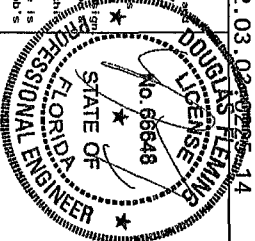
Those products require some care in fabricating, handling, shipping, installing, and bracing. Refer to the following for more information:

- **Bracing:** For safety, follow the latest edition of BCSI's *Building Component Safety Information* by TPI and WDOA. For safety practices related to performing these functions, installers shall provide temporary bracing per BCSI's *Installation and Erection Manual*. For safety, installers shall provide temporary bracing and bottom chord bracing as noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling.
- **Location:** BCSI's *Installation and Erection Manual* provides information on proper location. Units shall have a properly attached rigid ceiling.
- **Bracing:** Units shall have bracing installed per BCSI's sections 83, 87 or 810 as applicable.

## ALPINE

**ITW Building Components Group Inc.**

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF R215-- 86844
TC DL	10.0 PSF	DATE 11/04/13
BC DL	10.0 PSF	DRW HCURS215 1308017
BC LL	0.0 PSF	HC-ENG KD/DF
TOT.LD.	40.0 PSF	SEQN- 384563
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1V0Z215_Z01



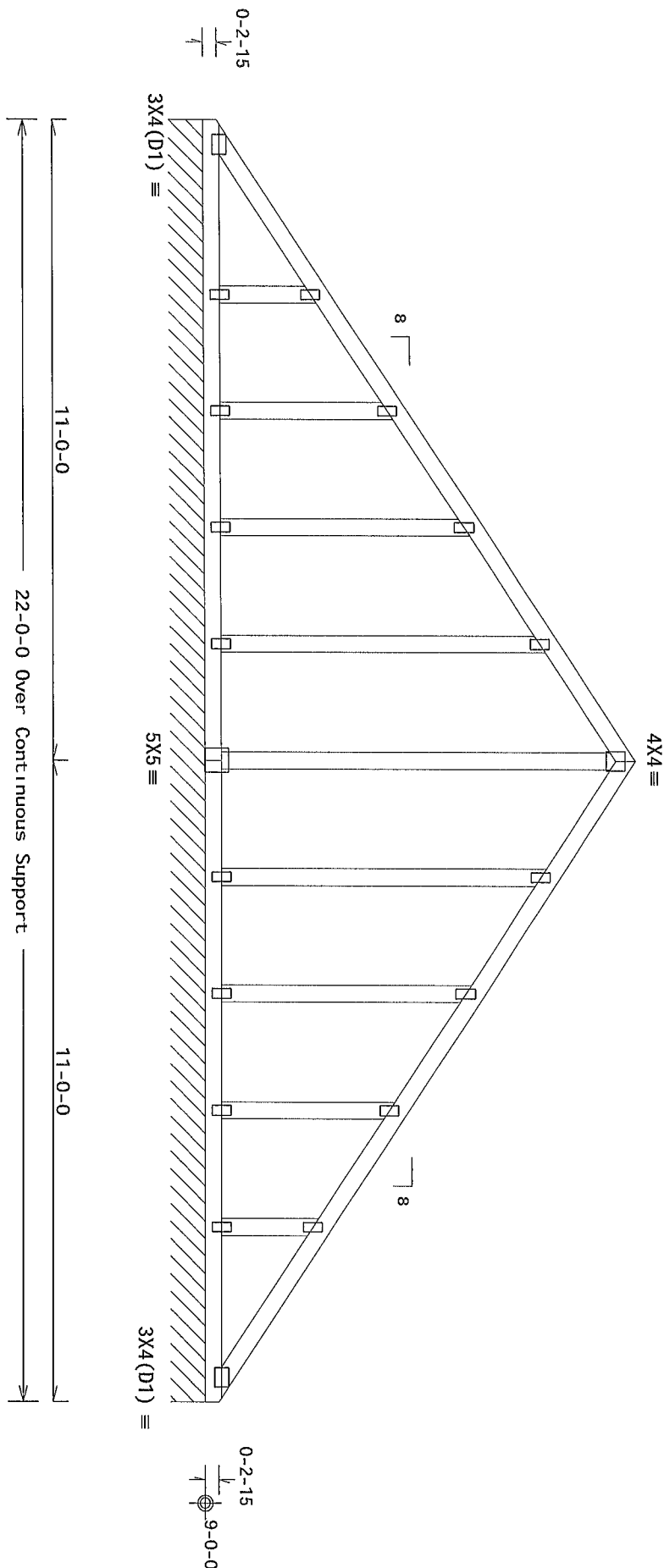
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS-MFR

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

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

The overall height of this truss excluding overhang is 7-6-15.



R=80 PLF U=0 PLF W=22-0-0  
RL=5/-5 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit. FBC2010Res/TP1-2007(STD)

PLT TYP. Wave

$$FI/RI = 20\% (0\%) / 10 (0)$$

12.03.03 0235 14

QTY..

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

Scale = .375"/Ft.

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

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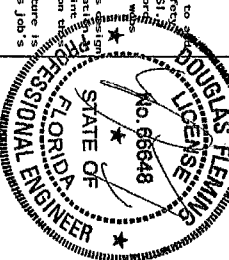
**ITW Building Components Group Inc.**

Orlando FL, 32837  
FL COA #0 278

These requirements are in fabricating, handling, shipping, installing, and bracing. Refer to the latest edition of BCSI (Building Component Safety) Information on by TPI and WTCO for safety practices other than 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 per BCSI ceiling. Locations shown for permanent lateral bracing of walls shall have bracing installed per BCSI sections 85, 87 or 810 as applicable.

1TW Building Components Group Inc. (1TWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/HPS-1 or for any handling or shipping or installation. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover plate 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. 1TW-BCG www.1twbcg.com TPI www.tpi.net WTCO www.sbcindustry.com

OC: www.1twbcg.com



TC LL	20.0 PSF	REF R215-- 86646
TC DL	10.0 PSF	DATE 11/04/13
BC DL	10.0 PSF	DRW HCUR215 13308079
BC LL	0.0 PSF	HC-ENG KD/DF
TOT.LD.	40.0 PSF	SEON- 384551
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor --- LAKE CITY, FL - M1)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

See DWGS A12015ENC100212, GBLLETIND212, & GABRST100212 for more requirements.

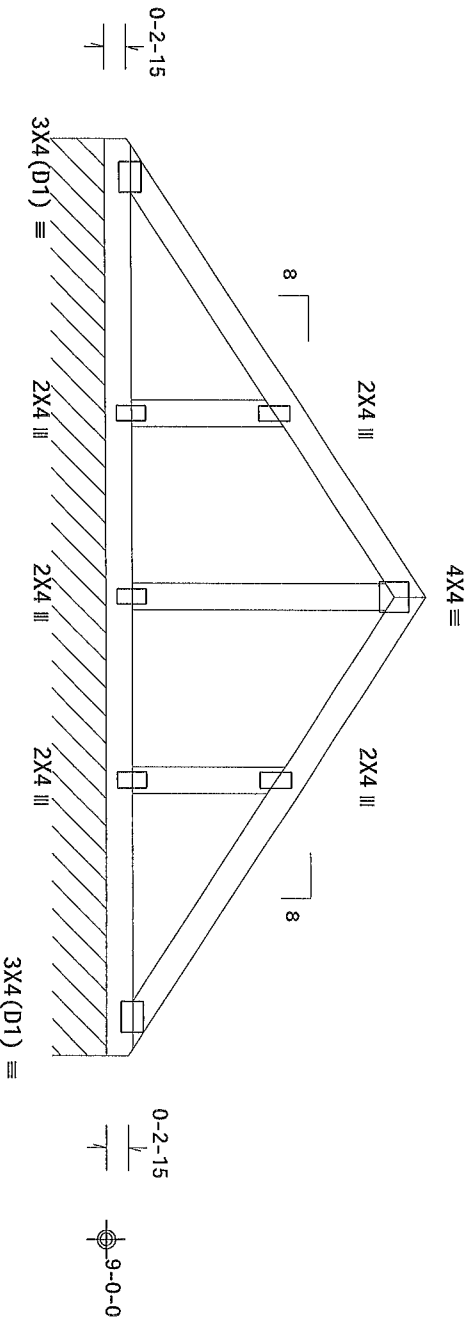
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 3-6-15.

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

Wind loads and reactions based on MMFRS 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=79 PLF U=0 PLF W=10-0-0  
RL=5/-5 PLF

Design Crit: FBC2010Res/TP1-2007(STD)

PLT TYP. Wave

FT/RT=20%(0%)/10(0)

12.03.00

QTY. 1

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

Scale = .5"/Ft.

**\*\*IMPORTANT\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

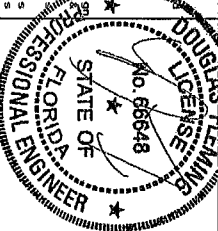
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information) by TPI and WCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint or web shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.

1TW Building Components Group, Inc. (1TWBCG) 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, bracing, or any other actions taken by the contractor. The contractor shall be responsible for the design, engineering, drafting 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 1TW-BDS www.1twbcg.com TPI www.tpiinc.org WCA www.wcaindustry.com IBC www.1twbcg.org

ALPINE

1TW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278



TC LL	20.0 PSF	REF	R215--	86847
TC DL	10.0 PSF	DATE	11/04/13	
BC DL	10.0 PSF	DRW	HOURS215	13308020
BC LL	0.0 PSF	HC-ENG	KD/DF	
TOT. LD.	40.0 PSF	SEQN-	384565	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1V02215_Z01	

11/04/2013



ASCE 7-10: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.000  
 Dr 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.000  
 Dr 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.000

Group B.	
Heer-Fr.	
#1 & Btr	
#1	
Douglas Fir-Larch	
#1	
#2	
Southern Pineapp	
#1	
#2	

1x4 Braces shall be SRB (Stress-Rated Boards) or 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group 1 values may be used with these grades.

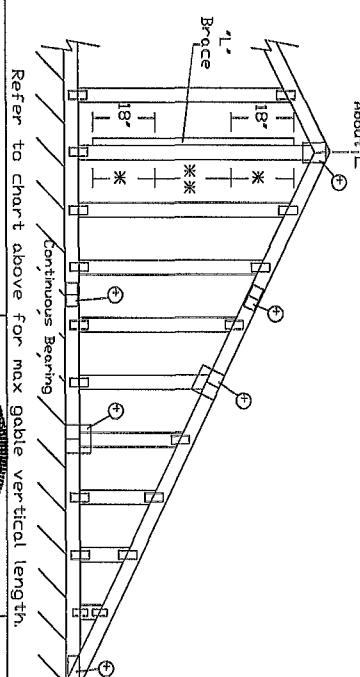
Provide uplift connections for 35 plf over continuous bearing (5 psf TC Dead Load). Gable end supports load from 4' 0" outcrookers with 2' 0" overhang, or 12" plywood overhang.

Attach 1" braces with 10s (0.128"x3.0" min) nails at:  
 \* For (1) 1" brace: space nails at 2' o.c.  
 in 18" end zones and 4' o.c. between zones.  
 \* For (2) 1" braces: space nails at 3' o.c.  
 in 18" end zones and 6' o.c. between zones.  
 1" bracing must be a minimum of 80% of web  
 member length.

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	2.5X4

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

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



Refer to chart above for max gable vertical length.



**TW**  
Building Components Group Inc.

## Building Components Group Inc.

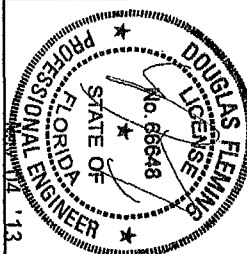
City, MO 6304

**WARNING: READ AND FOLLOW ALL NOTES IN THIS DRAWING.**  
**EXPERIENCED FURNISHERS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

These people perform steel framing, bracing, shipping, bracing, and bracing. Refer to and follow the latest edition of BESI Building Component Safety Information, by IPI and VITKA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BESI. 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 BESI sections B3, B4 or B10, as applicable. Apply plates to each face of truss and position as shown on the Joint Details, unless noted otherwise. Refer to drawings 100472 for standard plate position.

ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. A seal on this drawing or cover page indicating the use of the drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1, Sect. 2. For more information, see the Job's general note page and the web site:

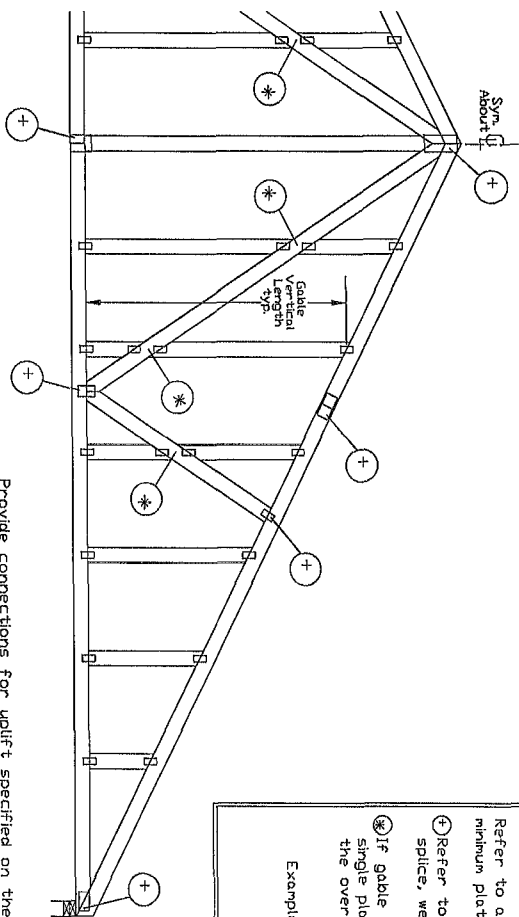
IPIDIR: [www.ipidirect.com](http://www.ipidirect.com) IPI: [www.ipi.com](http://www.ipi.com) VITKA: [www.vitka.com](http://www.vitka.com) ICG: [www.icgtruss.com](http://www.icgtruss.com)



MAX TOT LD 60 PSF
MAX SPACING 240'

REF	ASCE7-10-GAB12015
DATE	2/14/12
DRWG	A12015ENC100212

# Gable Detail For Let-in Verticals



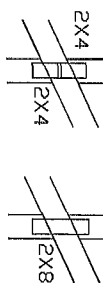
## Gable Truss Plate Sizes

Refer to appropriate ITV 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



Provide connections for uplift specified on the engineered truss design.  
Attach each 'T' reinforcing member with  
End Driven Nails  
10d Common (0.148" x 3" min) Nails at 4" o.c plus  
(4) nails in the top and bottom chords.

Toenailed Nails:  
10d Common (0.148" x 3" min) Toenails at 4" o.c plus  
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate ITV gable detail for ASCE wind load.

- ASCE 7-98 Gable Detail Drawings  
A1301S980109, A1201S980109, A1101S980109, A1001S980109,  
A13030980109, A12030980109, A11030980109, A10030980109  
ASCE 7-02 Gable Detail Drawings  
A1301S020109, A1201S020109, A1101S020109, A1001S020109,  
A1303020109, A1203020109, A1103020109, A1003020109  
ASCE 7-05 Gable Detail Drawings  
A1301S050109, A1201S050109, A1101S050109, A1001S050109,  
A1303050109, A1203050109, A1103050109, A1003050109  
ASCE 7-10 Gable Detail Drawings  
A1301S100212, A1201S100212, A1101S100212, A1001S100212,  
A13030100212, A12030100212, A11030100212, A10030100212,  
A13030100212, A12030100212, A11030100212, A10030100212

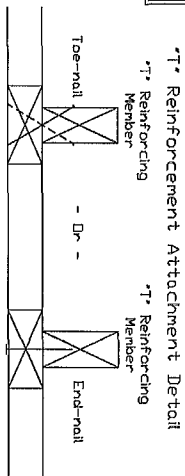
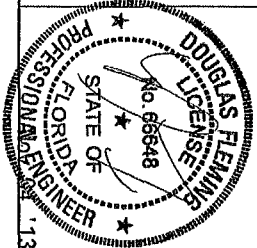
See appropriate ITV gable detail for maximum unreinforced gable vertical length.



Building Components Group Inc.

7th City MO 63045

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES IN THIS DRAWING.  
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of ECSI Building Component Safety Information, by IPI and WIDA for safety practices prior to performing these functions. Installers shall provide temporary bracing per ECSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Loadings shown for permanent lateral resistance of trusses shall be applied to the truss in the direction of the loading. Refer to the drawings for each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 1600-Z for standard plate positions.  
ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure, or any damage to property or persons resulting from the use of this drawing. The liability 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 ASCE 7-10 Sec. 2.  
ITV Bldg. www.itvbldg.com IPI www.ipi-usa.org WIDA www.widaindustry.org IDC www.idcusa.org



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate ITV gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member

Web Length Increase w/ 'T' Brace

'T' Reinf	'T' Increase
Mo Size	30 %
2x4	20 %
2x6	

Example:  
ASCE 7-10 Wind Speed = 120 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) = 30% = 1.30  
(1) 2x4 'L' Brace Length = 8' 7"  
Maximum 'T' Reinforced Gable Vertical Length  
1.30 x 8' 7" = 11' 2"

REF LET-IN VERT  
DATE 2/16/12  
DRWG GBLTIND212

MAX TOT LD 60 PSF  
DUR FAC ANY  
MAX SPACING 24 0'



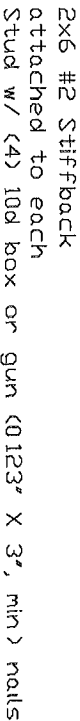
ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C  
Residential Gable End Wind Bracing Requirements - Stiffer

H Greater than 4'6" to 7'6" in length  
provide a 2x6 stiffback at mid-height and brace stiffback  
to 2x6 stiffback every 6'0" (see detail below on  
page 10)

H Greater than 7'6" to 12'0" max

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 DWG A12030(ENCI00212)

\* Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min) nails @ 6" oc

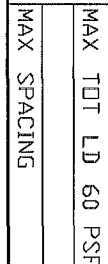


**Building Components Group Inc.**

**WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING BEFORE PROCEEDING TO FABRICATE OR INSTALL THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of ECSS Building Component Safety Information, by TPI and VITA for safety practices prior to performing these functions. Installers should provide temporary bracing system. Each truss shall have a properly attached rafter cutting. Locations shown for permanent lateral resistant bracing shall have bracing installed per ECSS sections 6C, 6D or 6E, as applicable. Apply plates to each chord of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 10A-W-2 for standard plate positions.

**III Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation and use of professional engineering responsibility solely for the design shown. The suitability and use of the 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 check with the designer at 800-368-6666 or 800-368-6666.**



REF	GE WHALER
DATE	2/14/12
DRWG	GABRST100212

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

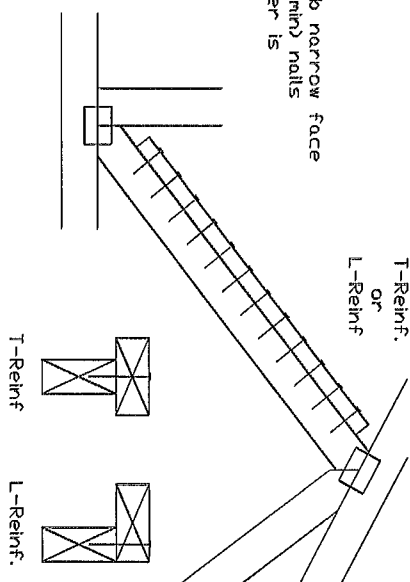
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf	Scab Reinf.
2x3 or 2x4 2x3 or 2x4	1 row 2 rows	2x4 2x6	1-2x4 2-2x4
2x6 2x6	1 row 2 rows	2x4 2x6	1-2x6 2-2x4(*)
2x8 2x8	1 row 2 rows	2x6 2x6	1-2x8 2-2x6(*)

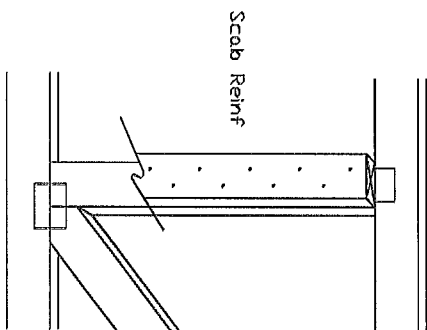
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(\*) Center scab on wide face of web. Apply (1) scab to each face of web

Apply to either side of web narrow face  
Attach with 10d (0.128"x3.0") nails  
at 6" o.c. Reinforcing member is  
a minimum 80% of web  
member length



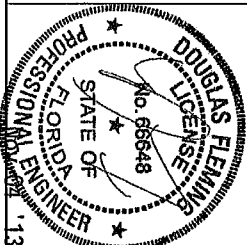
Apply scab(s) to wide face of web  
No more than (1) scab per face  
Attach with 10d (0.128"x3.0" min)  
at 6" o.c. Reinforcing member is a  
minimum 80% of web member length



**TWS**  
Building Components Group Inc.

**Building Components Group Inc.**

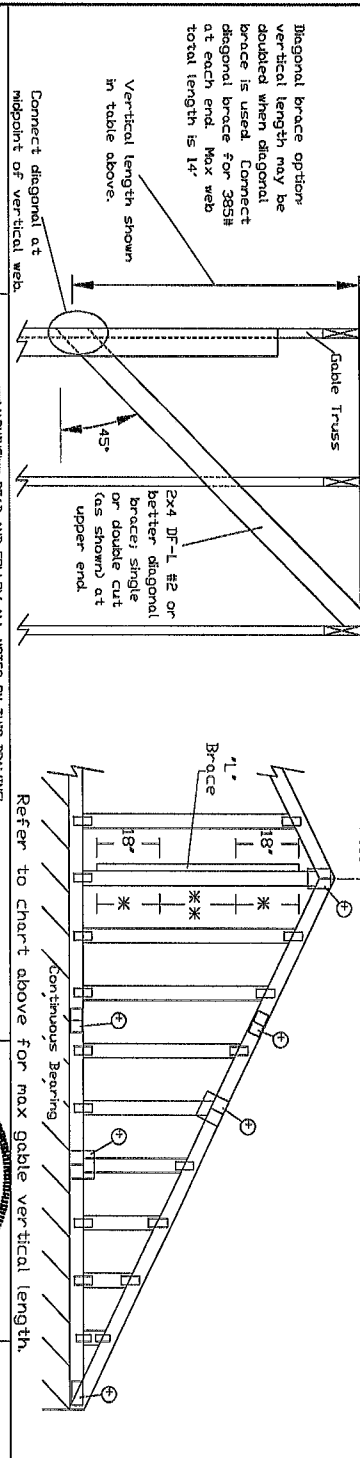
th City MO 63045

[illegible]

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	8/15/13
BC DL	PSF	DRWG	BRCLBSUB0813
BC LL	PSF		
TOT LD	PSF		
DUR. FAC			
SPACING			

# ASCE 7-10: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00 Dr: 100 Mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00 Dr: 100 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length		Brace		No		(1) 1x4 1" L		(1) 2x4 1" L		(2) 2x4 1" L		(1) 2x6 1" L		(2) 2x6 1" L	
Gable Vertical Species	Grade	Braces	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 B
24" o.c.	SPF	#1 / #2	4' 7"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SPF	#3	4' 4"	7' 2"	7' 8"	9' 1"	9' 5"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	Standard	4' 4"	7' 8"	8' 0"	9' 1"	9' 5"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 8"	7' 10"	8' 2"	9' 3"	9' 8"	11' 0"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" o.c.	SPF	#2	4' 7"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SPF	#3	4' 4"	7' 2"	7' 8"	9' 1"	9' 5"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	Standard	4' 4"	7' 8"	8' 0"	9' 1"	9' 5"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 8"	7' 10"	8' 2"	9' 3"	9' 8"	11' 0"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF	#2	4' 7"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SPF	#3	4' 4"	7' 2"	7' 8"	9' 1"	9' 5"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	Standard	4' 4"	7' 8"	8' 0"	9' 1"	9' 5"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 8"	7' 10"	8' 2"	9' 3"	9' 8"	11' 0"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



Building Components Group Inc.

4th City, MO 63045

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the instructions provided by the manufacturer. The manufacturer's instructions shall be followed 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 properly installed per BCSI sections 11.19 or 20.10 as applicable. Apply plates to webs at locations shown in the detail drawings, unless noted otherwise. Refer to drawings 16B-Z for standard plate positions.

11V Building Components Group Inc. shall not be responsible for any deviation from this drawing, any fabrication, or any installation. A seal on this drawing or cover page listing the drawing, indicates acceptance of Professional Engineering responsibility solely for the building designer per ASCE/TP 1.1 Sec 2.

TP 1.1 Building Components Group Inc. shall not be responsible for any deviation from this drawing, any fabrication, or any installation. A seal on this drawing or cover page listing the drawing, indicates acceptance of Professional Engineering responsibility solely for the building designer per ASCE/TP 1.1 Sec 2.

TP 1.1 Building Components Group Inc. shall not be responsible for any deviation from this drawing, any fabrication, or any installation. A seal on this drawing or cover page listing the drawing, indicates acceptance of Professional Engineering responsibility solely for the building designer per ASCE/TP 1.1 Sec 2.

MAX. TOT LD. 60 PSF

MAX SPACING 24 0"

REF ASCE7-10 (GAB)2030

DATE 2/14/12

DRWG A12030ENC100212

Bracing Group Species and Grades:	
Group A	Group B
Service-Pine-Fir #1 / #2 Standard #3 Stud	Hem-Fir #2 Stud #3 Standard
Douglas Fir-Larch #3 Stud Standard	Southern Pine** #3 Stud Standard

1x4 Braces shall be SPB (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 70 plf over continuous bearing (3 psf TC dead load).

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

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

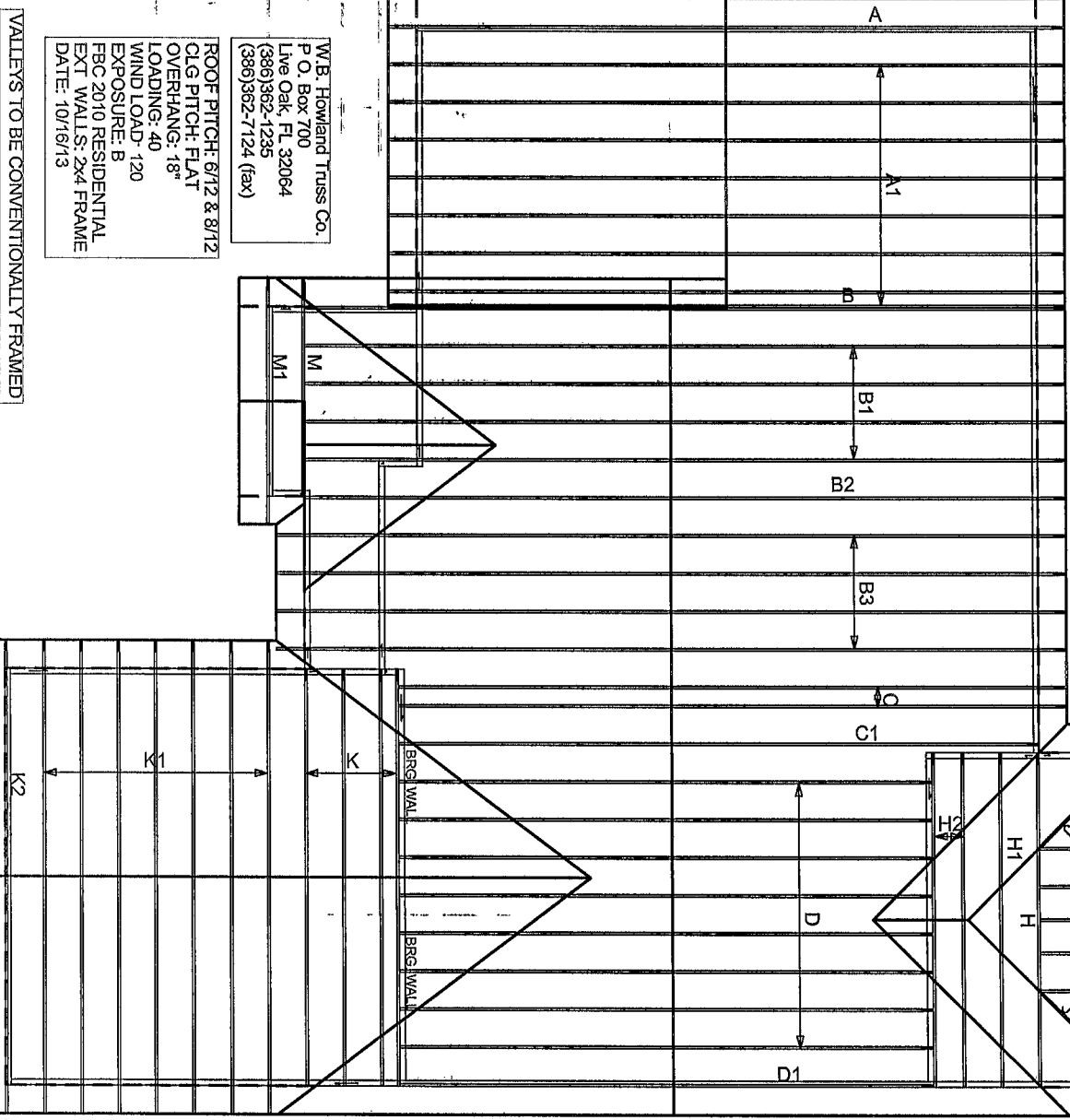
Attach 1" braces with 10d (0.128x3.0" min) nails.	
* For (1) 1" brace, space nails at 2' o.c. in 18" end zones and 4' o.c. between zones.	
**For (2) 1" braces, space nails at 3' o.c. in 18" end zones and 6' o.c. between zones.	
1" bracing must be a minimum of 80% of web member length.	

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"	2.5X4

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

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

60' 33' 5' 14' 8'



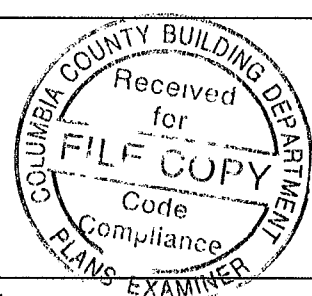
38'4" 17'7" 8"

49'4" 60' 10'8"

VALLEYS TO BE CONVENTIONALLY FRAMED

W.B. Howard Truss Co.  
P.O. Box 700  
Live Oak, FL 32064  
(386) 362-1235  
(386) 362-7124 (fax)

ROOF PITCH: 6/12 & 8/12  
CLG PITCH: FLAT  
OVERHANG: 18"  
LOADING: 40  
WIND LOAD: 120  
EXPOSURE: B  
FBC 2010 RESIDENTIAL  
EXT WALLS: 2x4 FRAME  
DATE: 10/16/13



PAGE NO. 1 OF 1	JOB NO: 8407	Job Name: TRADEMARK/ HENTZELMAN Customer: Contractor Designer: Chris McCall ADDRESS: SALESMAN: HOUSE <Not Found>	JOB #: 8407
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