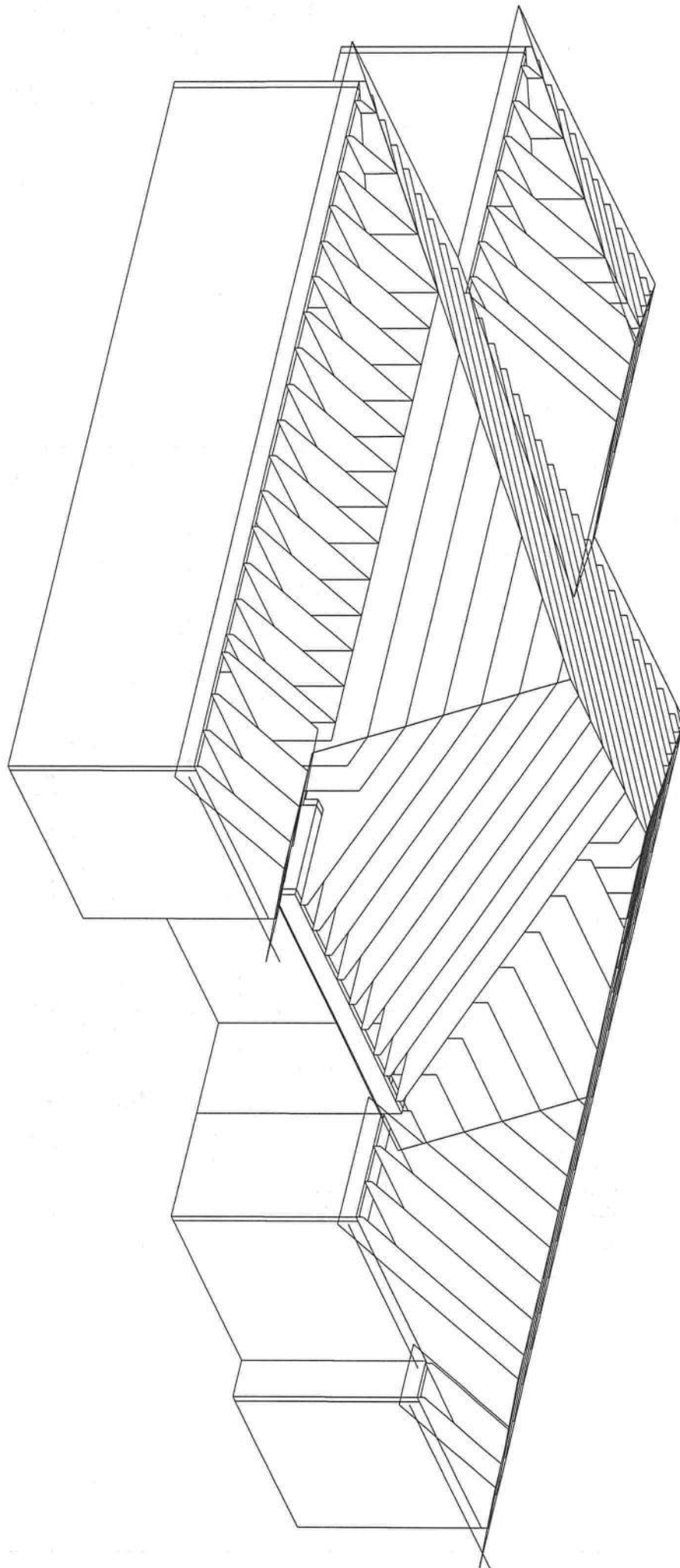






ITW Building Components Group, Inc.

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: IURU9114Z0107091314



Truss Fabricator: **Anderson Truss Company**
Job Identification: **12-381--Sparks Construction Wyatt HPG-1600M -- Lake City**
Truss Count: **42**
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 61615-31.003(5a) of the FAC**
Minimum Design Loads: **Roof - 37.0 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

William H. Krick
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-12015EC1-GBLLETIN-GABRST10-

#	Ref	Description	Drawing#	Date
1	06520--A	37' Special	12342005	12/07/12
2	06521-AS	21'2" Special	12342006	12/07/12
3	06522--B	22' Common	12342007	12/07/12
4	06523--B1	22' Common	12342008	12/07/12
5	06524--B2	22' Common	12342009	12/07/12
6	06525--B3	22' Common	12342010	12/07/12
7	06526--B4	22' Common	12342011	12/07/12
8	06527--B5	22' Common	12342012	12/07/12
9	06528--B6	22' Common	12342013	12/07/12
10	06529--B7	22' Common	12342014	12/07/12
11	06530--B8	22' Common	12342015	12/07/12
12	06531--BGE	22' Gable	12342016	12/07/12
13	06532--C	19'8" Common	12342017	12/07/12
14	06533--C1	19'8" Common	12342018	12/07/12
15	06534--CG	19'8" Common	12342019	12/07/12
16	06535--CJ1	1' Jack	12342020	12/07/12
17	06536--CJ3	3' Jack	12342021	12/07/12
18	06537--CJ5	5' Jack	12342022	12/07/12
19	06538--D	12'2" Common	12342023	12/07/12
20	06539--DG	12'2" Common	12342024	12/07/12
21	06540--DGE	12'2" Gable	12342025	12/07/12
22	06541-E	10'6" Common G	12342026	12/07/12
23	06542-EGE	10'6" Gable	12342027	12/07/12
24	06543--EJ7	7' End Jack	12342028	12/07/12
25	06544-EJ7B	7' End Jack	12342029	12/07/12
26	06545-H11A	32' Stepdow	12342030	12/07/12
27	06546-H11AS	21'2" Mono	12342031	12/07/12
28	06547-H13A	37' Stepdow	12342032	12/07/12
29	06548-H13AS	21'2" Mono	12342033	12/07/12
30	06549-H15A	37' Stepdow	12342034	12/07/12
31	06550-H15AS	21'2" Step	12342035	12/07/12
32	06551-H17A	37' Stepdow	12342036	12/07/12
33	06552-H17AS	21'2" Step	12342037	12/07/12
34	06553-H19A	37' Special	12342038	12/07/12
35	06554-H19AS	21'2" Spec	12342039	12/07/12
36	06555-H7A	32' Special	12342040	12/07/12

#	Ref	Description	Drawing#	Date
37	06556-H7AS	21'2" Mono	12342041	12/07/12
38	06557-H7C	19'8" Stepdo	12342042	12/07/12
39	06558--H9A	32' Special	12342043	12/07/12
40	06559-H9AS	21'2" Mono	12342044	12/07/12
41	06560-H9C	19'8" Stepdo	12342045	12/07/12
42	06561-HJ7	9'10"13 Hip	12342046	12/07/12



(12-381)--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - A 37' Special)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

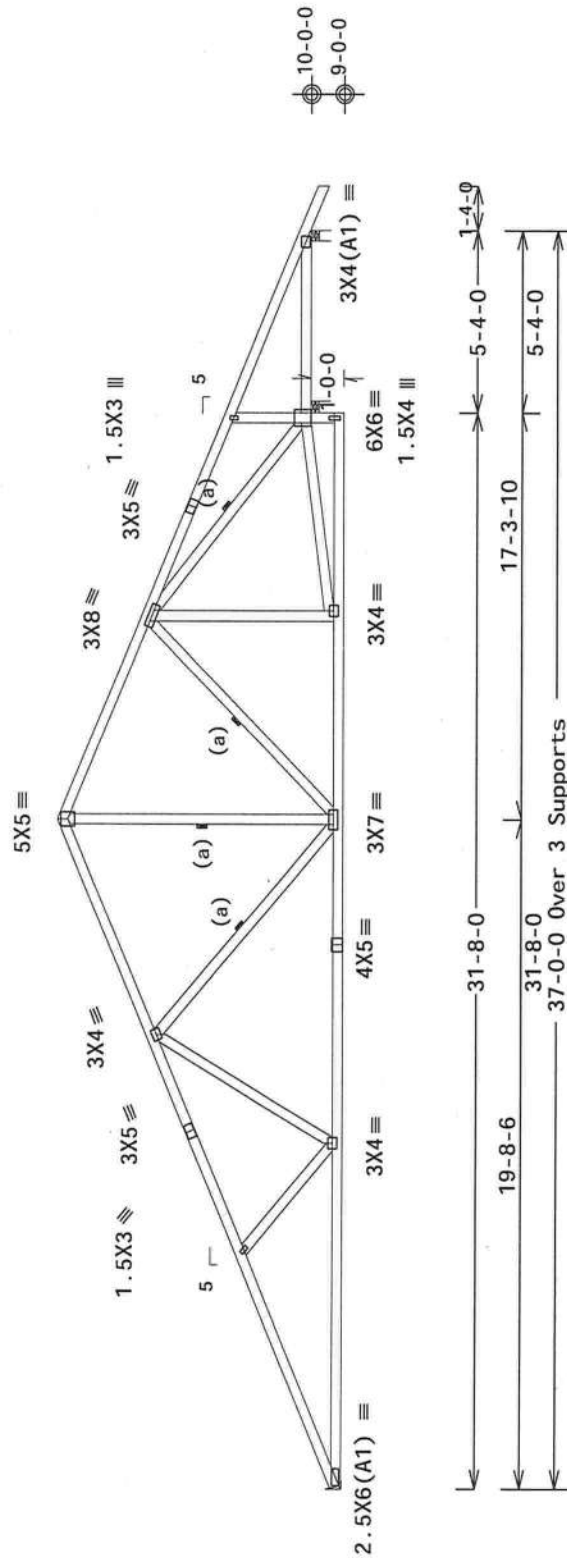
(a) Continuous lateral bracing equally spaced on member.

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.

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

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



R=1231 U=0
RL=121/-110

R=1558 U=0 W=4"
R=250 U=13 W=3.5"

PLT TYP. Wave

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

Scale = .1875"/Ft.

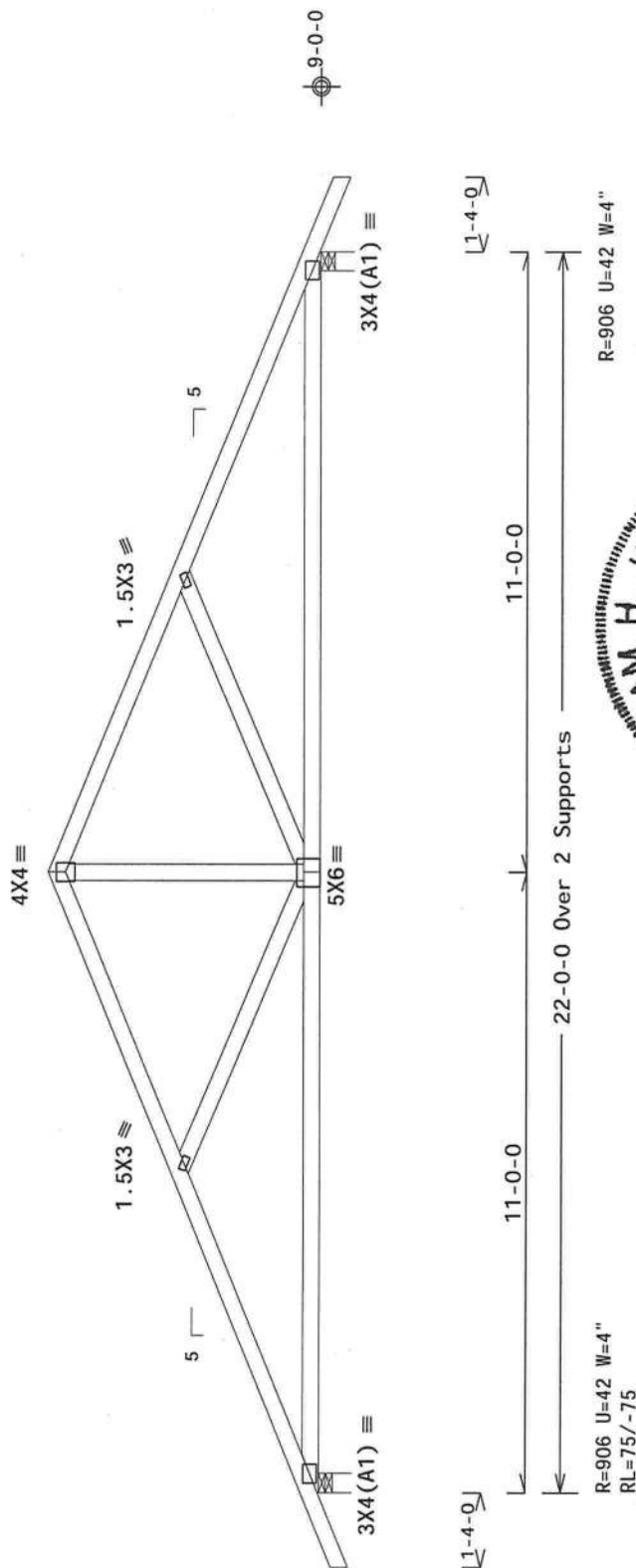
ALP I N E ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! **IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.	No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/07/2012	IC LL	20.0 PSF	REF	R9114- 6520
	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 details. Unless noted otherwise, top chord shall have properly attached structural sheathing and lateral bracing. Lateral bracing shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint or w/ shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.		TC DL	7.0 PSF	DATE	12/07/12
	ITW Building Components Group Inc. (ITWBCG) 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 or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job. Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see the general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiint.org; WCA: www.wcaafe.org		BC DL	10.0 PSF	DRW	HCUSR9114 12342005
			BC LL	0.0 PSF	HC-ENG	WHK/WHK
			TOT.LD.	37.0 PSF	SEQN-	36147
			DUR.FAC.	1.25		
		SPACING	24.0"	JREF-	1URU9114Z01	

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

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=3.5 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=906 U=42 W=4"
RL=75/-75

PLT TYP. Wave

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

Scale = .3125"/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. Trusses shall be installed in accordance with the latest edition of BCSP (Building Component Safety Information, by TPI and WTC) practices prior to performing these functions. Installers shall provide temporary bracing. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid colling. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/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 160A-Z for standard plate positions. A seal is required for all truss connections. This drawing indicates acceptance of professional engineering responsibility for the design of the truss. For more information see: general notes page; ITW-B00; www.itwbcg.com; ANSI/TPI 1 Sec 2. This job is the property of ITW-B00. For more information see: ITW-B00; www.itwbcg.com; TPI: www.tpinet.org; WTC: www.wtcindustry.com

No. 70861

STATE OF FLORIDA

PROFESSIONAL ENGINEER

12/07/2012

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

REF R9114- 6522

DATE 12/07/12

DRW HCUSR9114 12342007

HC-ENG WHK/WHK

SEQN- 36145

JREF- 1URU9114Z01

TC LL	20.0 PSF
TC DL	7.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	37.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

120 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

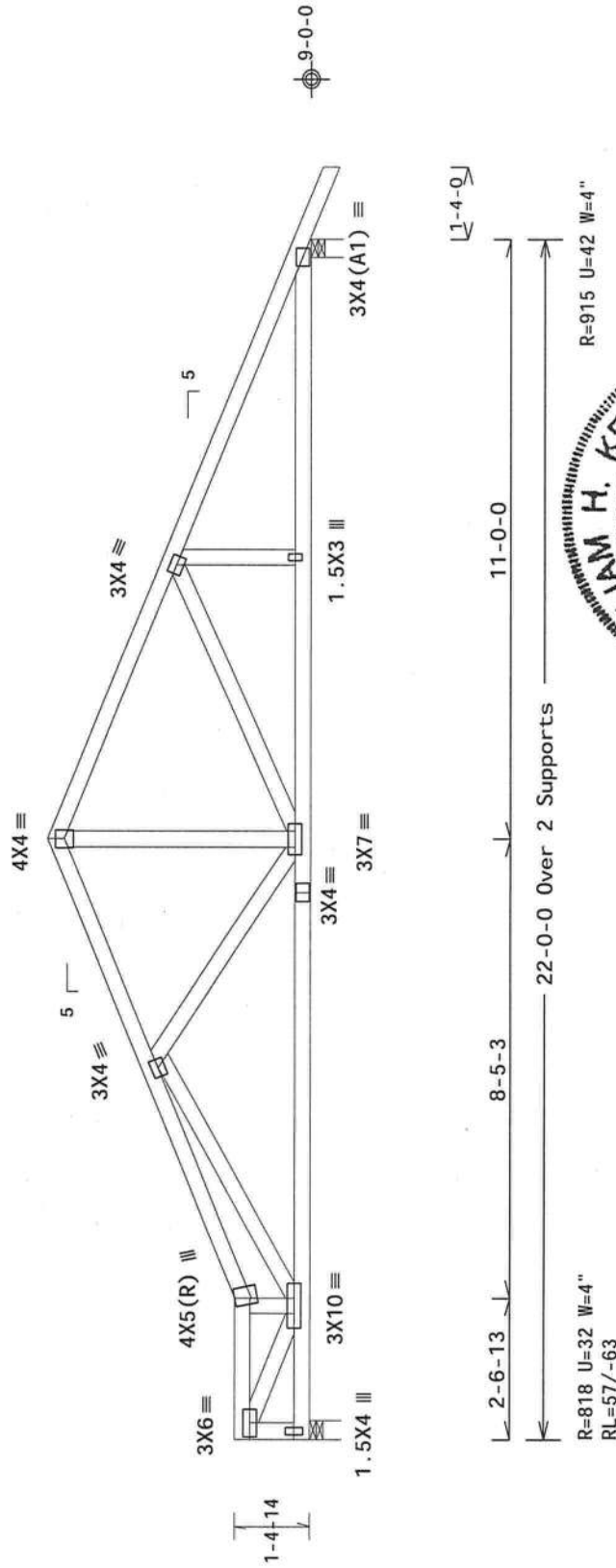
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

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



PLT TYP. Wave

Design Crit: $\text{FBC2010Res/TPI-2007(STD)}$
 $\text{FT/RT}=10\%(0\%)/0(0)$

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. Please follow the latest edition of RCSI (Building Component Safety Information, by TPI and WICA) recommendations. Trusses should always be braced in accordance with the manufacturer's instructions. Unless noted otherwise, top chord shall have properly attached structural sheathing. Bottom chord shall have bracing installed per RCSI sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any violation from this drawing or specification due to any failure to build the truss in accordance with ANSI/TPI-1 for steel joist trusses installed according to the manufacturer's instructions. ITWBCG shall not be responsible for installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joist Truss Details, unless noted otherwise. Refer to drawings T60A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for your structure is the responsibility of the building Designer per ANSI/TPI-1 Sec.2. For more information see: This Job's Specification and Engineering Design package. ANSI/tipi.org; info@itwbcg.com; www.recstar.org; ITWBCG_solutions@itwbcg.com; www.itwbcg.com; WTA@aspi.net

Scale = .3125"/Ft.

REF R9114- 6523

DATE	12/07/12
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DATE 12/01/12
DRAW NUMBER 14 12212000

DRW HCUSR9114 12342008

HC-ENG WHK/WHK

SEQN- 36144

JREF- 1URU9114Z01

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL C0A #0 278

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=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

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

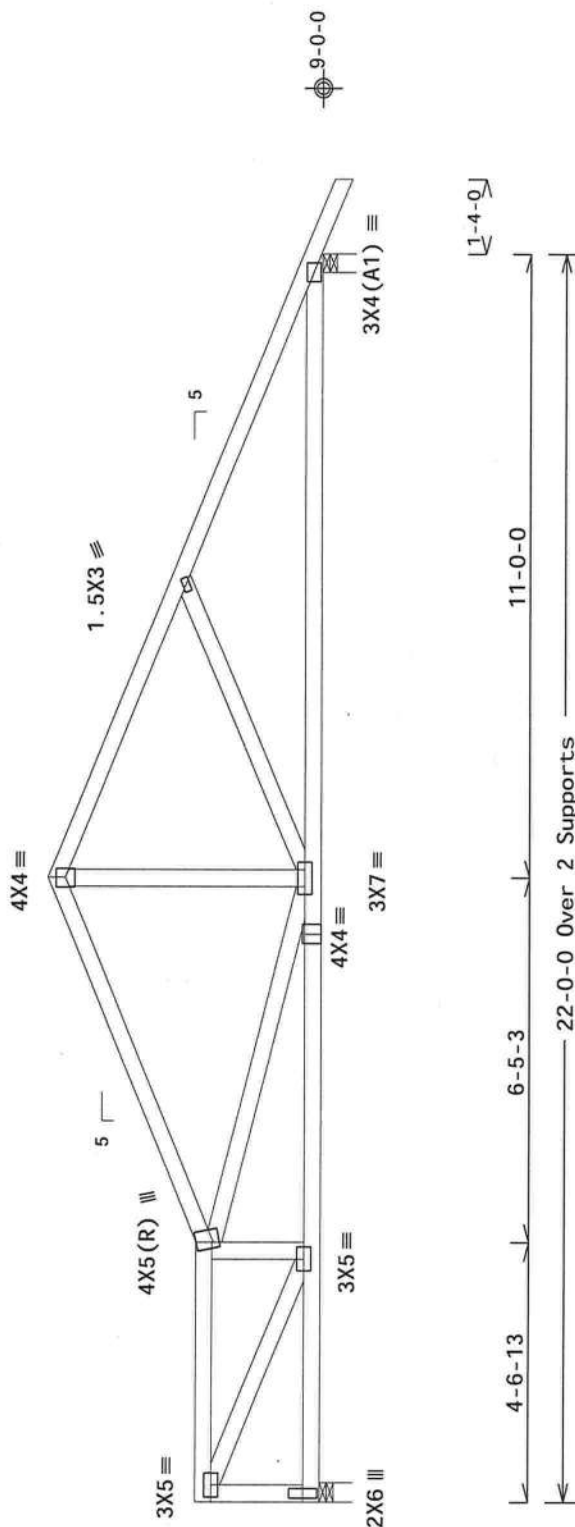
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Left end vertical not exposed to wind pressure.

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

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

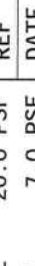


R=915 U=41 W=4"

R=818 U=34 W=4"
RL=47/-62

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

Scale = .3125"/Ft.



ALPINE

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

****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 BCSI (Building Components Safety Institute) TP1 and WTCA (Wood Truss Company) WTCO manuals for all details. TP1 and WTCO manuals contain all the latest 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 ceiling. Locations shown for permanent lateral restraint of walls shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job's details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the approval page listing this drawing, indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TP1 1 Sec. 2. For more information see: This job's general notes page; ITW-BCG: www.itwbcg.com; TP1: www.tp1net.org; WTCA: www.stcindustry.com; www.iccsafe.org

No. 70861

STATE OF FLORIDA

PROFESSIONAL ENGINEER

12/07/2012

TC LL	20.0 PSF	REF	R9114- 6524
TC DL	7.0 PSF	DATE	12/07/12
BC DL	10.0 PSF	DRW	HCUSR9114 12342009
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT. LD.	37.0 PSF	SEQN-	36143
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1URU9114Z01

(12-381)--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - B3 22' Common)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

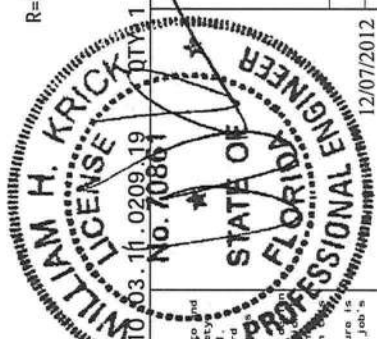
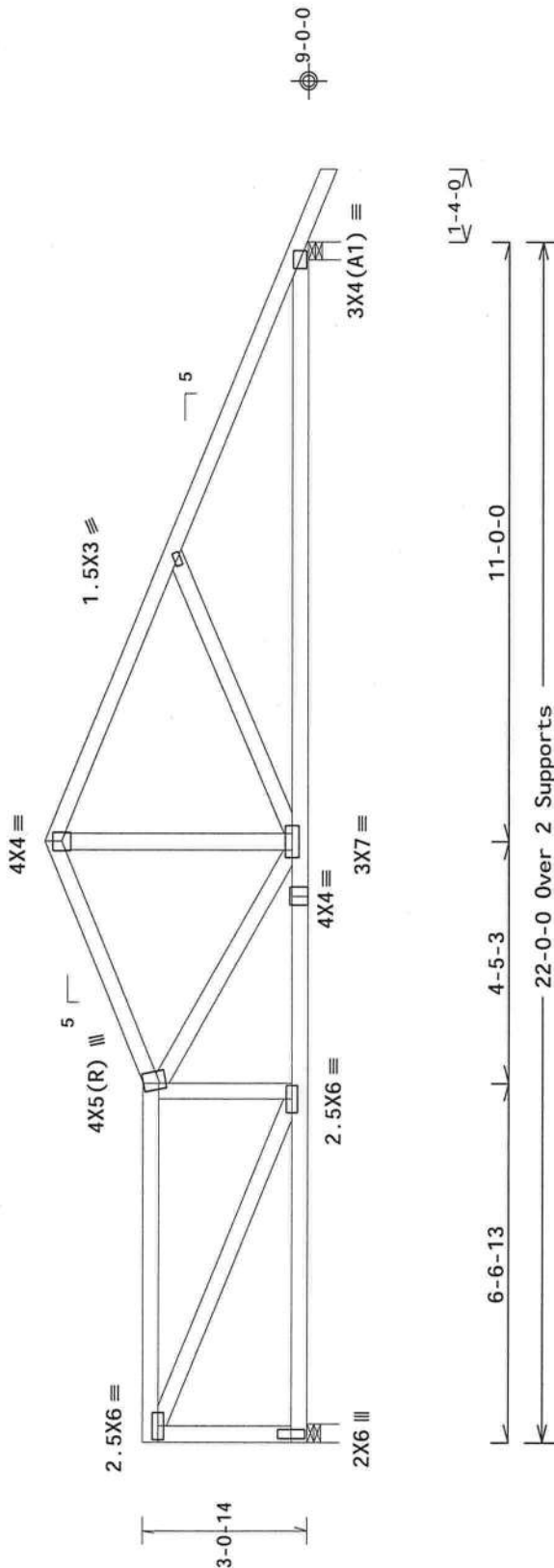
Left end vertical not exposed to wind pressure.

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

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

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

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



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

PLT TYP. Wave	Scale = .3125"/Ft.
REF R9114- 6525	TC LL 20.0 PSF
DATE 12/07/12	TC DL 7.0 PSF
DRW HCUSR9114 12342010	BC DL 10.0 PSF
HC-ENG WHK/WHK	BC LL 0.0 PSF
SEQN- 36142	TOT.LD. 37.0 PSF
	DUR.FAC. 1.25
JREF- 1URU9114Z01	SPACING 24.0"

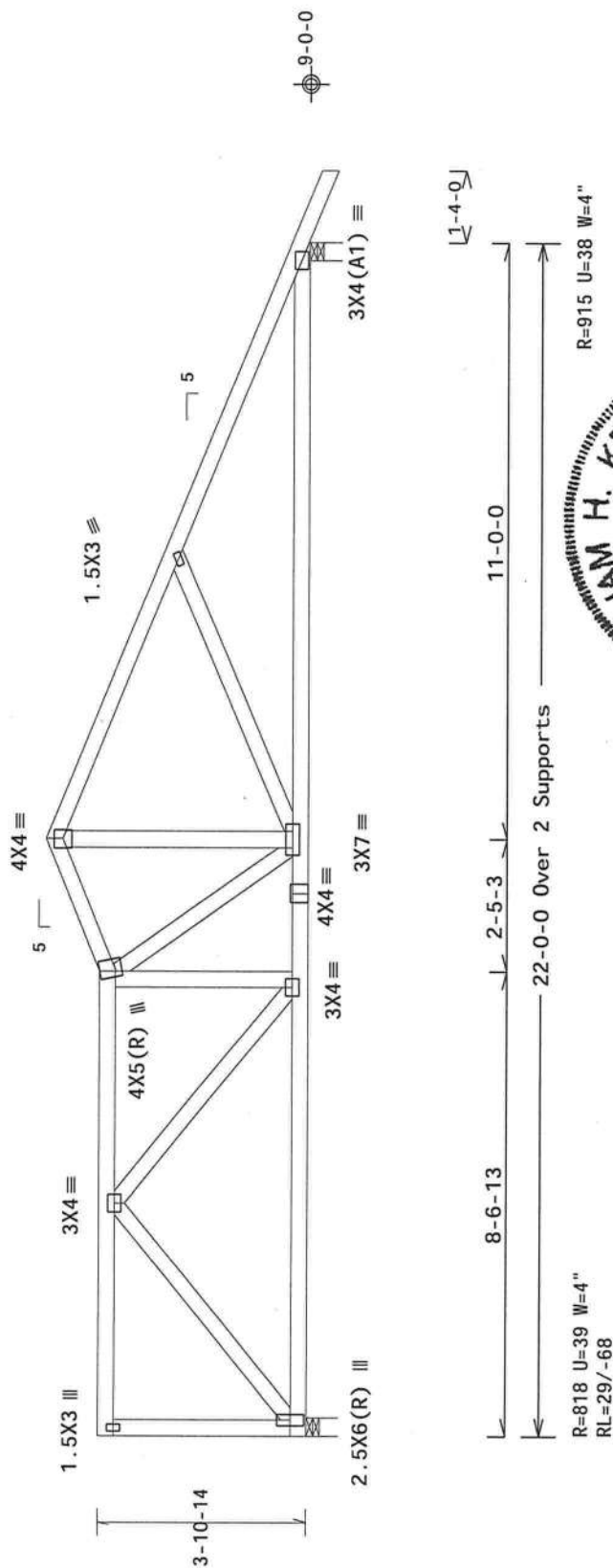
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

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

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

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



R=818 U=39 W=4"
RL=29/-68

PLT TYP: Wave

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

Scale = .3125"/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. Follow the latest edition of BCSI (Building Component Safety Institute) by TPI and WTCA 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 coiling. Locations shown for permanent lateral restraint of truss shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBG) 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 or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the end of the truss is required. The seal indicates acceptance of professional engineering and design. The seal is required for the design. For more information see: This job's general notes page of the Building Design per ANSI/TPI 1 Sec. 2. For more information see: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

REF	R9114 - 6526	TC LL	20.0 PSF	DATE	12/07/12
DATE	12/07/12	TC DL	7.0 PSF	DRW	HCUSR9114 12342011
DRW	HCUSR9114 12342011	BC DL	10.0 PSF	HC-ENG	WHK/WHK
HC-ENG	WHK/WHK	BC LL	0.0 PSF	SEQN-	36158
SEQN-	36158	TOT. LD.	37.0 PSF	DUR. FAC.	1.25
DUR. FAC.	1.25	SPACING	24.0"	JREF -	1URU9114Z01
SPACING	24.0"				



ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

(12-381)--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - B5 22' Common)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Left end vertical not exposed to wind pressure.

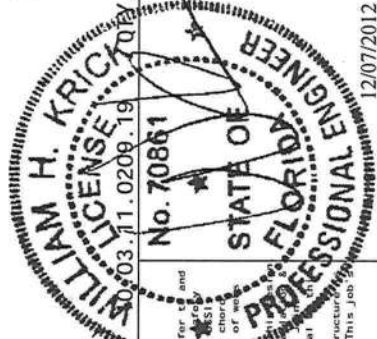
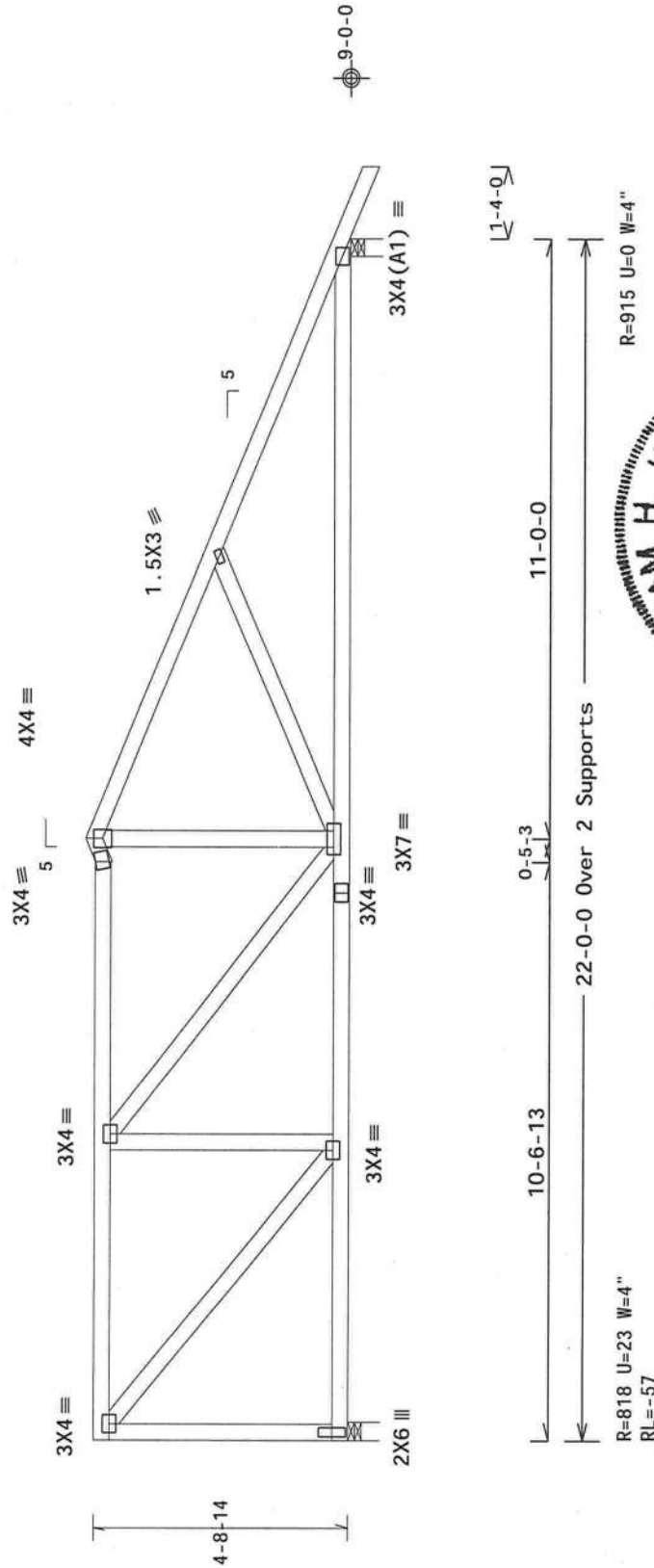
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

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

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



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

Scale = .3125"/Ft..

REF R9114- 6527

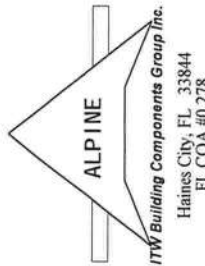
DATE 12/07/12

DRW HCUSR9114 12342012

SEQN- 36157

JREF- 1URU9114Z01

PLT TYP. Wave



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

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - B6 22' Common)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Left end vertical not exposed to wind pressure.

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

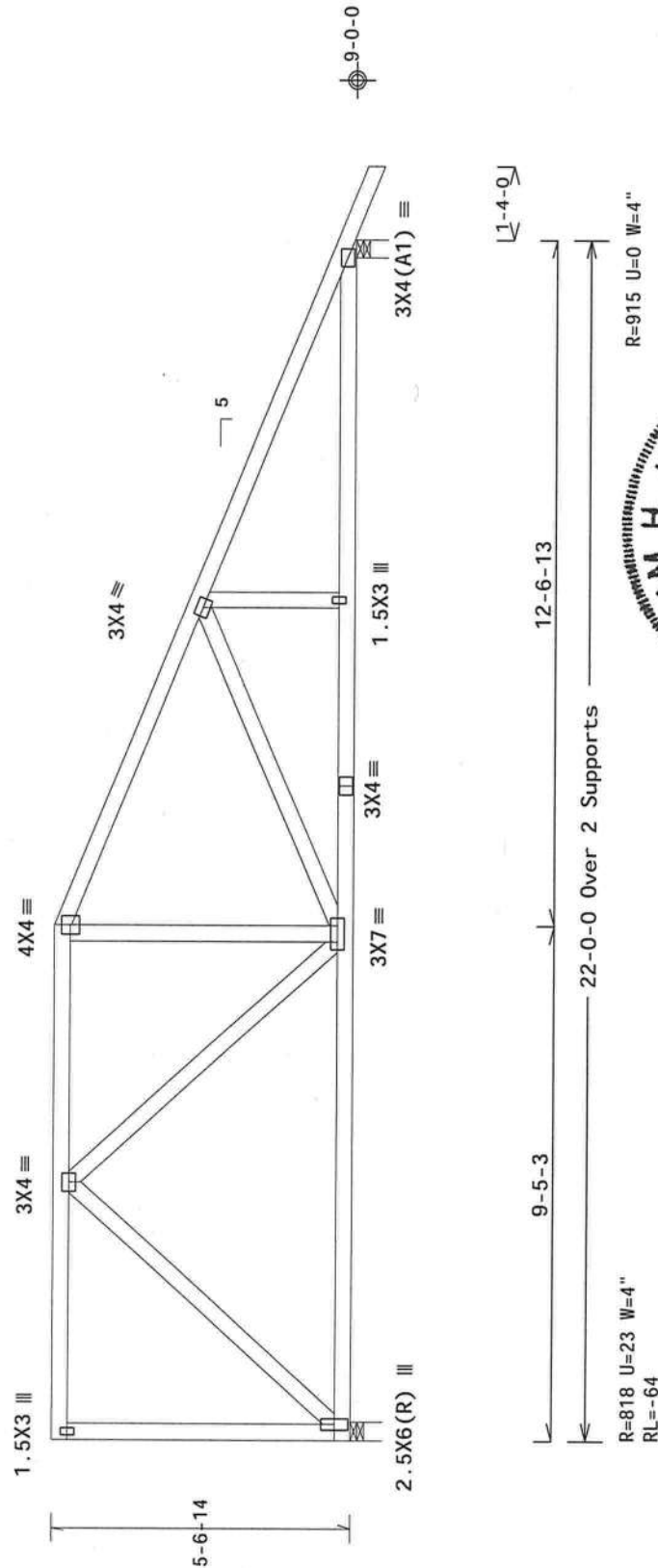
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

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

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



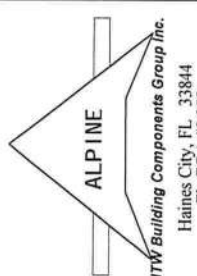
R=915 U=0 W=4"

PLT TYP. Wave

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

Scale = .3125"/Ft.

	**IMPORTANT** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		TC LL 20.0 PSF		REF R9114- 6528
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the manufacturer's instructions for proper installation and bracing. Do not alter or modify practices prior to performing these trusses. The truss manufacturer shall be responsible for the design and construction of the trusses. The truss manufacturer shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint or bracing shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.		TC DL 7.0 PSF		DATE 12/07/12
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or construction of the trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 1604A-Z for standard plate positions. A seal of approval is hereby given by the truss manufacturer for the design and construction of the trusses. 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.tpinet.org; WTCA: www.wtcaindustry.com; ICC: www.iccsafe.org		BC DL 10.0 PSF		DRW HCUSR9114 12342013
			BC LL 0.0 PSF		HC-ENG WHK/WHK
			TOT.LD. 37.0 PSF		SEQN- 36156
			DUR.FAC. 1.25		JREF- 1URU9114Z01
		SPACING 24.0"			



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

	Top	chord	2x4	SP_#1	12A
	Bot	chord	2x4	SP_#1	12A
		Webs	2x4	SP_#3	12A

Lumber grades designated with "12A" use design values approved 11/5/2012 by ALSC.

Left end vertical not exposed to wind pressure.

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

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

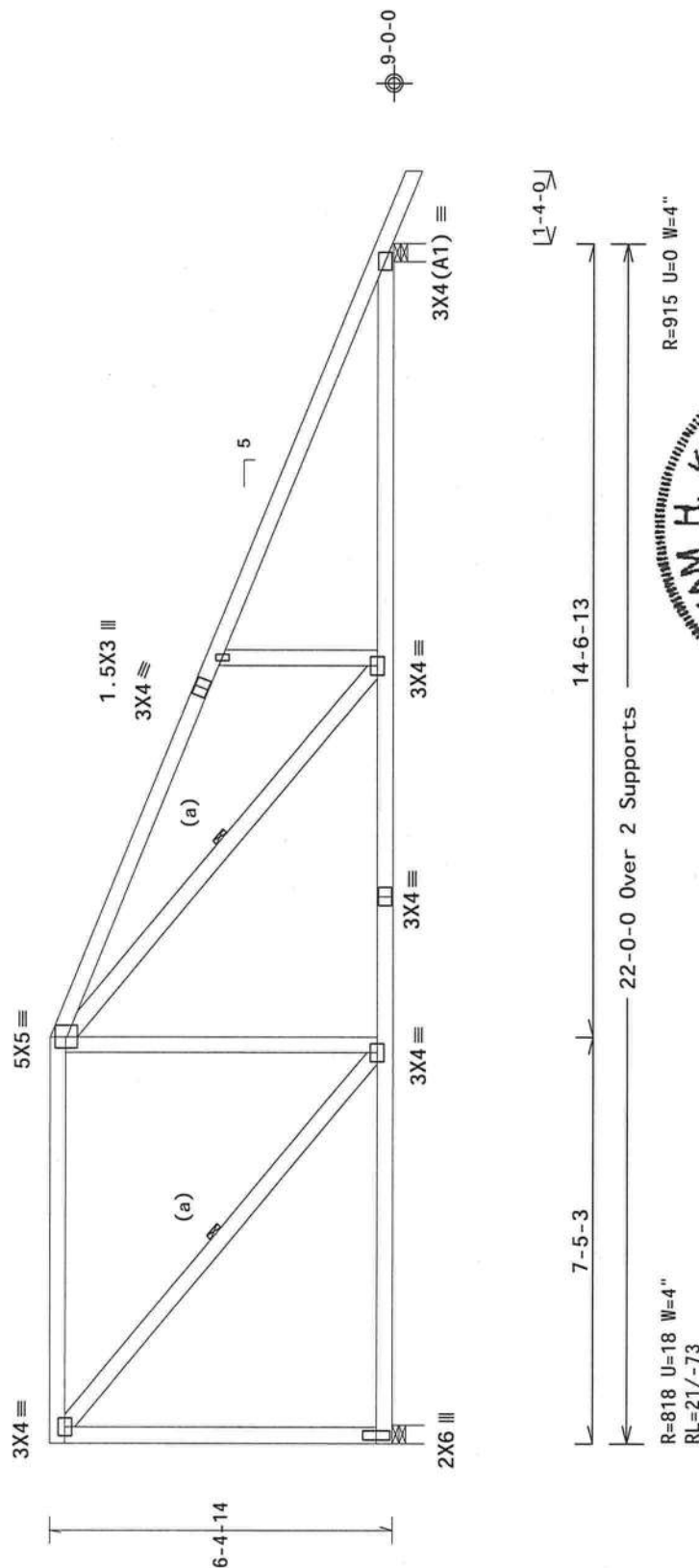
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

(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.



PLOT TYP. Wave

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

Scale = .3125"/Ft.

OFF R9114- 6529

DATE	12/07/12
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DATE 12/01/12

RW HCUSR9114 12342014

IC-ENG WHK/WHK

36155

REF- 1URU9114Z01

****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. The erection of steel (Building Component Safety Information, by TPI and WCA) must be followed exactly as shown on drawings. If any deviations are noted, they must be 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 BCSP sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (TIBCOG) shall not be responsible for any deviation from the design shown on drawings. It is the responsibility of the contractor to ensure proper framing of trusses. Apply plates to each rafter cut and position as shown above and on the Joint Detail Drawing. Details, unless noted otherwise. Refer to drawings IBOA-2 for standard plate positions. A seal between the top chord and rafters is required. See details on drawings for proper framing and 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: General notes page; ITW-BCEG: www.itwbcg.com; TPI: www.tpi.net; WCA: www.stcindustries.com;

ALPINE

TW Building Components Group Inc.

James City, FL 33844

FL COA #0 278

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=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

(a) Continuous lateral bracing equally spaced on member.

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

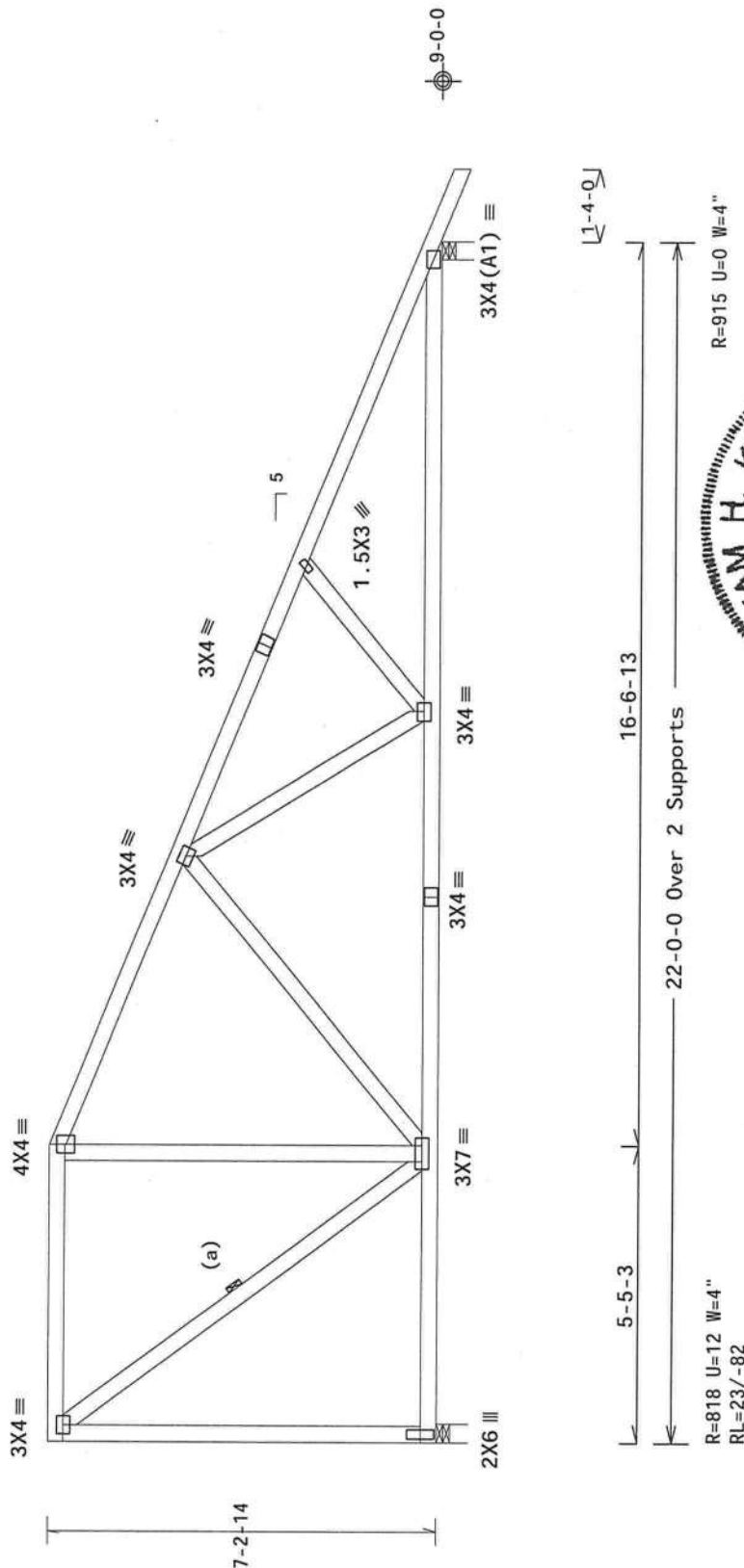
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Left end vertical not exposed to wind pressure.

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

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



R=818 U=12 W=4"
RL=23/-82

PLT TYP.: Wave

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

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

Scale = .3125"/Ft.

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

TC 11	20.0 PSF
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REF R9114- 6530

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. To follow the latest edition of BC51 (Building Component Safety Information, by TPI and WCA) and to ensure proper bracing, the following practices must be followed:

TC DL 7.0 PSF

71 60 71 71 60 71

hall have a properly attached rigid colling. Locations shown for permanent lateral restraint of web.

79 10.0 P3F

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from

HC-ENG WHK/WHK

any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or use of truss.

111

Refer to drawings 160A-Z for standard plate positions. A seal on the details, unless noted otherwise. Apply plates to each face of truss and position as shown above and on the Joint-A

36154 SEQN-

drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for construction.

DIID	EAC	1	2E
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responsibility for the design, growth, the safety and use of this design for any structure in the world. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's

12

general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.com; CC: www.iccsafe.org

SPACING 24.0"

1 074-1100001 1511

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

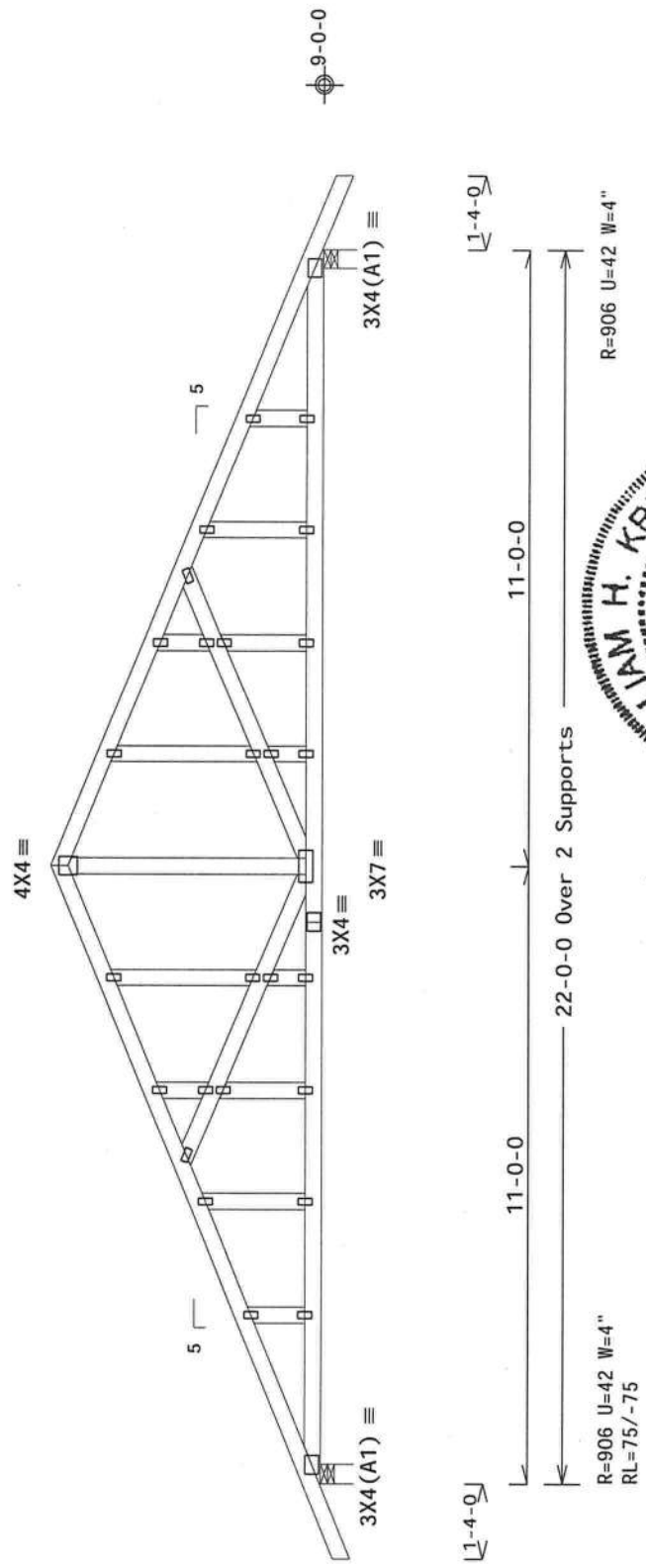
Wind loads and reactions based on MWFRS with additional C&C member design.

Gable end supports 8" max rake overhang.

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

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.



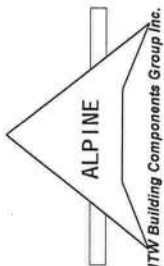
Note: All Plates Are 1.5X3 Except As Shown.

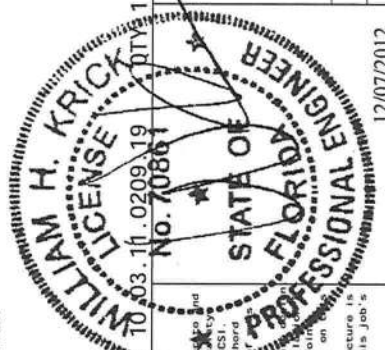
Design Crit: FBC2010Res/TPI-2007 (STD)

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

PLT TYP. Wave

Scale = .3125"/Ft.

 Haines City, FL 33844 FL COA #0 278	12/07/2012		12/07/2012	
	SPACING	24.0"	JREF	1URU9114Z01
	DUR.FAC.	1.25	SEQN	36168
	TOT.LD.	37.0 PSF	HC-ENG	WHK/WHK
	BC LL	0.0 PSF	DRW	HCUSR9114 12342016
	BC DL	10.0 PSF	DATE	12/07/12
TC DL		7.0 PSF	REF	R9114- 6531
TC LL		20.0 PSF	FL/-/4/-/-/R/-	



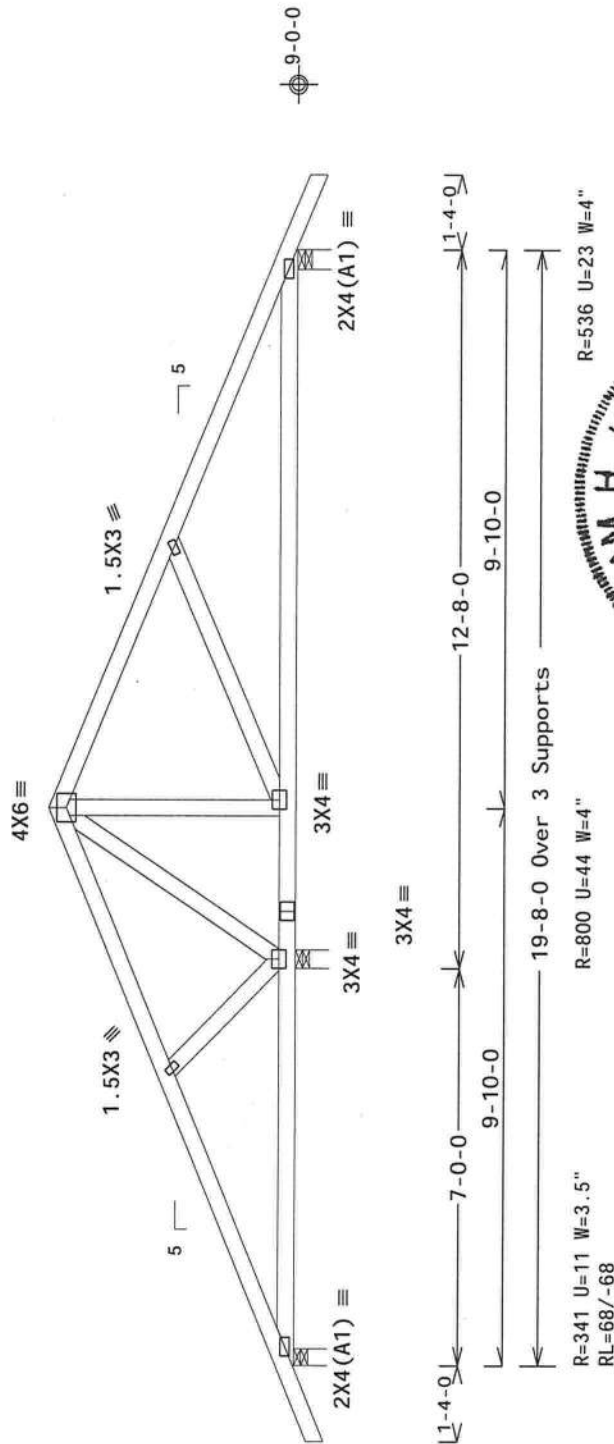
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTGA) for details prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be properly braced during shipment and installation. Trusses shall have a properly attached rigid coiling. 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 the details shown. This drawing is the property of ITWBCG and its use for any structure is the responsibility of the user. This job is the property of ITWBCG. This job is the property of ITWBCG.
general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WTGA: www.sbcindustry.com; ICC: www.iccsafe.org

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=3.5 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.

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

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

PLT TYP. Wave

Scale = 3125"/Ft+

..IMPORTANT..
..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 Components Safety Information, by IP) and WICA (Welding Inspection Council) publications. Installers shall provide temporary bracing for all trusses. Trusses shall be braced and bracing shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing of trusses shall have bracing installed per BCSI sections B31, B37 or B10, as applicable.

ITW Building Components Group Inc. (TWBC) shall not be responsible for any deviation from drawings or specifications. The user assumes full responsibility for determining the suitability of materials for handling, shipping, installation, storage, and application. The user must verify all dimensions, tolerances, and details, unless otherwise noted. Refer to drawings 160A-Z for standard plate positions. A seal drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structural application is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: general notes page; ITW-Building: www.itwbuild.com; TPI: www.tpi.net; WTCA: www.wtca-industry.com; This job

REF R9114- 6532

DATE 12/07/12

ORW HCUSR9114 12342017

HC-ENG WHK/WHK

36140

IR FAC	1 25
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DATE: 11-20	24 0"
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12/07/2012

REF- 1URU9114701

ALPINE

TW Building Components Group Inc.

Haines City, FL 33844
FL COA #0378

mes City, FL 338
FL COA #0 278

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - C1 19'8" Common)

Top chord 2x4 SP #1_12A

Bot chord 2x4 SP #1_12A

Webs 2x4 SP #3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

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

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=3.5 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.

PLT TYP. Wave

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

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

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

Scale = .375"/Ft.

REF R9114- 6533

DATE 12/07/12

DRW HCUSR9114 12342018

HC-ENG WHK/WHK

SEQN- 36139

DUR.FAC. 1.25

SPACING 24.0"

JREF- 1URU9114Z01



****IMPORTANT****
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the manufacturer's instructions for proper installation and bracing. The truss manufacturer shall be responsible for providing the necessary information, by TPI and WCA, to the installer. The installer shall be responsible for providing the necessary information, by TPI and WCA, to the installer. The installer shall be responsible for providing the necessary information, by TPI and WCA, to the installer.

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

ITW Building Components Group Inc. (ITWBCG) 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 or bracing of trusses. Apply plates to each face of truss and position as shown above and on the back of the truss. Trusses and other products are not to be used for any other purpose than that for which they were designed. Refer to drawings 1004-2 for standard plate positions. A seal of approval is provided on the back of the truss. The suitability and use of this design 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; WCA: www.sbcindustry.com; ICC: www.iccinfo.org

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A :W4 2x4 SP_#1_12A:

Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC.

Special loads

Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 55 pif at 0.00 to 55 pif at 9.83
TC- From 55 pif at 9.83 to 55 pif at 19.67
BC- From 20 pif at 0.00 to 20 pif at 8.40
BC- From 10 pif at 8.40 to 10 pif at 12.00
BC- From 10 pif at 12.00 to 10 pif at 19.67
BC- 1231.42 lb Conc. Load at 8.40,10.40,11.94,13.94
15.94
BC- 1171.05 lb Conc. Load at 17.94

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

2 COMPLETE TRUSSES REQUIRED

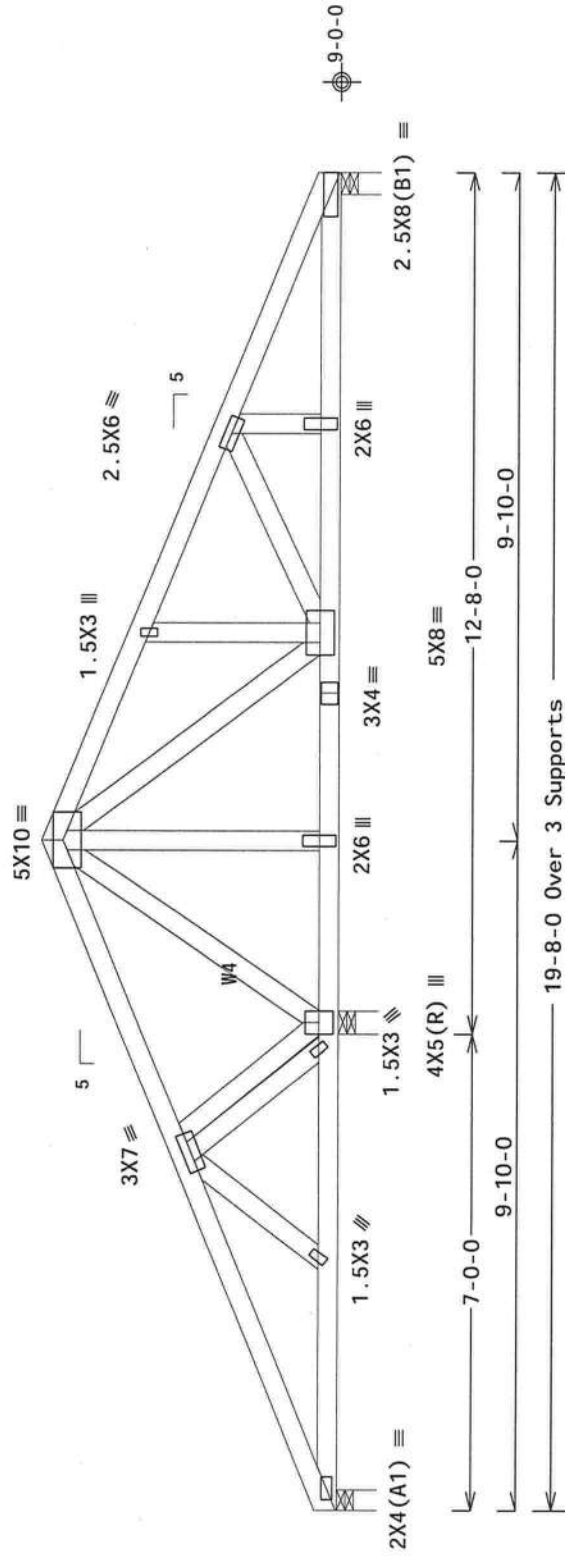
Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Negative reaction(s) of -715# 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 II, EXP B, wind TC DL=3.5 psf,
wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS.

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



R=3486 U=0 W=4"

R=106/-715 U=38 W=3.5"

R=5848 U=0 W=4"

PLT TYP. Wave

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

Scale = .375"/Ft.

ALPINE 	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		No. 70861 ★ STATE OF FLORIDA PROFESSIONAL ENGINEER 12/07/2012		REF R9114- 6534
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTGA) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.				DATE 12/07/12
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the trusses in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The liability 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.tpinet.org; WTGA: www.alcrae.org				DRW HCUSR9114 12342019
					HC-ENG WHK/WHK
					SEQN- 36172
					TOT.LD. 37.0 PSF
				DUR.FAC. 1.25	
				SPACING 24.0"	JREF- 1URU9114Z01

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A

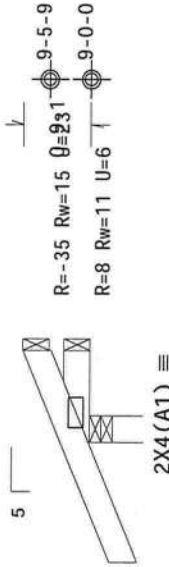
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

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=3.5 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.



1-4-0
1-0-0 Over 3 Supports
R=199 U=32 W=3.5"

PLT TYP. Wave

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

Scale = .5"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.				No. 70861 PROFESSIONAL ENGINEER STATE OF FLORIDA 12/07/2012				REF R9114- 6535			
	IMPORTANT Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BC51 (Building Component Safety Information, by TPI and WTC) and practices prior to performing these functions. Installers shall provide temporary bracing per BC51 noted otherwise, top chord shall have property attached structural sheathing and bottom chord shall have bracing installed per BC51 for permanent lateral restraint of the truss. Trusses shall have bracing installed per BC51 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 conformance with ANSI/TPI 1 and WTC's recommendations. Details of trusses, Apply platon to each face of truss and position as shown above and on the Job. Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering design for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTC: www.structure.com; ICC: www.iccsafe.org								TC LL 20.0 PSF			
									TC DL 7.0 PSF			
									BC DL 10.0 PSF			
									BC LL 0.0 PSF			
									TOT.LD. 37.0 PSF			
DUR.FAC. 1.25												
								SPACING 24.0"				
								SEQN- 36138				
								JREF- 1URU9114Z01				

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A

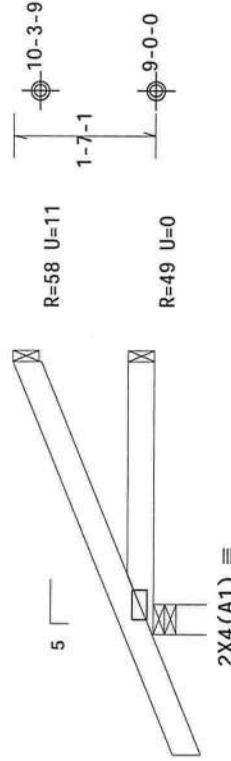
Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC.

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

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=3.5 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=220 U=14 W=4"
RL=30

PLT TYP. Wave

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

Scale = 5"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/07/2012	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!		TC LL	20.0 PSF	REF	R9114- 6536
		IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		TC DL	7.0 PSF	DATE	12/07/12
		Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCG) practices prior to performing these functions. Installers shall provide temporary bracing for all trusses unless noted otherwise, top chord shall have property attached structural sheathing and bottom chord shall have a property attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.		BC DL	10.0 PSF	DRW	HCUSR9114 12342021
		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 ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply places to each frame of truss and position as shown above and on the drawings. Detailing and design shall conform to design drawings 608-2 for standard plate positions. A seal of the engineer or cover page listing this drawing is required. The engineer shall retain the responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information any general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCG: www.wtcgindustry.com; ICC: www.iccsafe.org		BC LL	0.0 PSF	HC-ENG	WHK/WHK
				TOT.LD.	37.0 PSF	SEQN-	36136
				DUR.FAC.	1.25		
		SPACING	24.0"	JREF-	1URU9114Z01		

IMPORTANT** 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 WTCA) for proper erection and bracing. Trusses shall be erected and braced in accordance with the instructions provided. Unless noted otherwise, top chord shall have properly attached and installed temporary bracing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of walls shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the 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 160A-2 for standard plate positions. A seal of the professional engineer shall be placed on the drawing. The seal indicates acceptance of professional engineering responsibility solely for the design and construction of the trusses shown. For more information see: This job general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.alcindustry.com; ICC: www.iccsafe.org

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=3.5 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.



Scale = .5"/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. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) practices prior to performing these functions. Installers shall provide temporary bracing for all trusses. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the back details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal of approval is hereby given by ITWBCG for the design and construction of the truss. The responsibility of the Building Designer for the design shown, the suitability of the structure and the responsibility solely for the Building Designer per ANSI/TPI 1 Sec. 2. For more information, contact general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.abciindustry.com; ICC: www.iccsafe.org

REF	R9114- 6538	TC LL	20.0 PSF
DATE	12/07/12	TC DL	7.0 PSF
DRW	HCUSR9114 12342023	BC DL	10.0 PSF
	HC-ENG WHK/WHK	BC LL	0.0 PSF
	SEQN-	TOT. LD.	37.0 PSF
		DUR. FAC.	1.25
JREF -	1URU9114Z01	SPACING	24.0"

ALPINE

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

No. 70861

STATE OF FLORIDA

PROFESSIONAL ENGINEER

12/07/2012

Top	chord	2x4	SP_#1	12A
Bot	chord	2x6	SP_#2	12A
	Webs	2x4	SP_#3	12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Special loads

	(Lumber	Dur. Fac.=1.25 / Plate Dur.=1.25)
TC-From	55 pif at -1.33 to	55 pif at 6.08
TC-From	55 pif at 6.08 to	55 pif at 12.17
BC-From	4 pif at -1.33 to	4 pif at 0.00
BC-From	20 pif at 0.00 to	20 pif at 7.06
BC-From	10 pif at 7.06 to	10 pif at 12.17
BC-114.27 lb Conc.	Load at	7.06
BC-78.24 lb Conc.	Load at	9.06
BC-88.64 lb Conc.	Load at	11.06

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3", min. nails

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

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

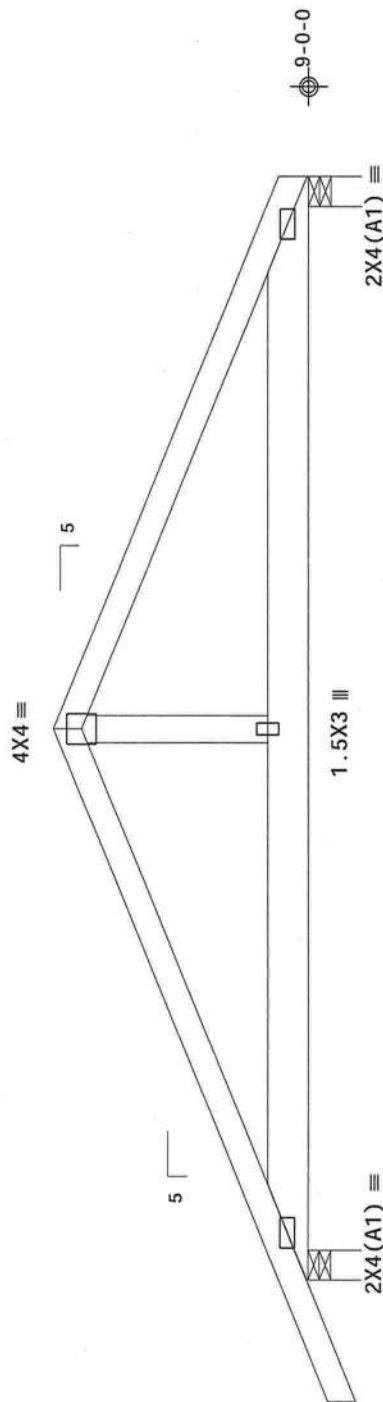
Webs : 1 Row @ 4" o.c.

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

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

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



1-4-07

6-1-0

6-1-0

12-2-0 Over 2 Supports

R=511 H=65 W=4"

R=485 H=172 W=4"

PLT TYP. Wave

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

Scale = .5"/Ft.

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

11.0209.19

...

3

007-

10% (0)

$$T/RT =$$

2.

Figure 6

250

22

Wave

—T TYPE

p



ALPINE
 ITW Building 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.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP Building Components Safety Information, by TPI and WCA. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid soiling. Locations shown for permanent lateral restraint of walls shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 sec.2. For more information see: This job's specification. ITWBCG: www.bldgcomp.com, TPI: www.tpi.com, WCA: www.wcainfo.com.
ICC: www.iccsafe.org

No. 70861	IC LL	20.0 PSF	REF R9114- 6539
★	TC DL	7.0 PSF	DATE 12/07/12
STATE OF	BC DL	10.0 PSF	DRW HCUSR9114 12342024
FLORIDA	BC LL	0.0 PSF	HC-ENG WHK/WHK
PROFESSIONAL ENGINEER	TOT. LD.	37.0 PSF	SEQN- 36177
12/07/2012	DUR. FAC.	1.25	
	SPACING	24.0"	JREF- 1URU9114Z01

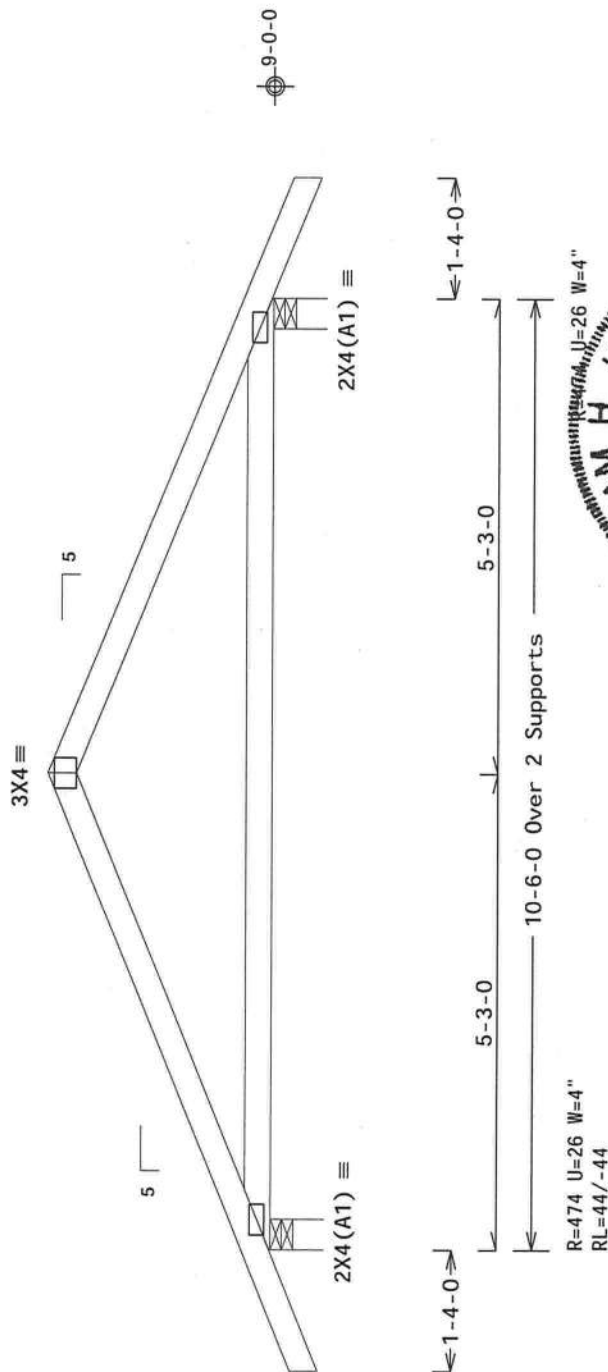
120 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

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

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



PLT TYP. Wave

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

Scale = .5"/Ft.

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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 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 properly attached rigid coiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from high-quality 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 160A-Z for standard plate positions. A seal of approval is not a design. This drawing indicates acceptance of professional engineering and the responsibility solely for the design. The seal of approval is not a design. The seal of approval is not a design. The seal of approval is not a design. For more information see: This job information and the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: www.itwbcg.com; www.tpinet.org; www.bcsindustry.com; www.iccsafe.org

REF	R9114-	6541	TC LL	20.0	PSF
DATE	12/07/12		TC DL	7.0	PSF
DRW	HCUSR9114	12342026	BC DL	10.0	PSF
HC-ENG	WHK/WHK		BC LL	0.0	PSF
SEQN-	36169		TOT.LD.	37.0	PSF
			DUR.FAC.	1.25	
JREF-	1URU9114Z01		SPACING	24.0"	

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A
Stack Chord SC1 2x4 SP_#1_12A::Stack Chord SC2 2x4 SP_#1_12A:
1/5/2012 by ALSC.

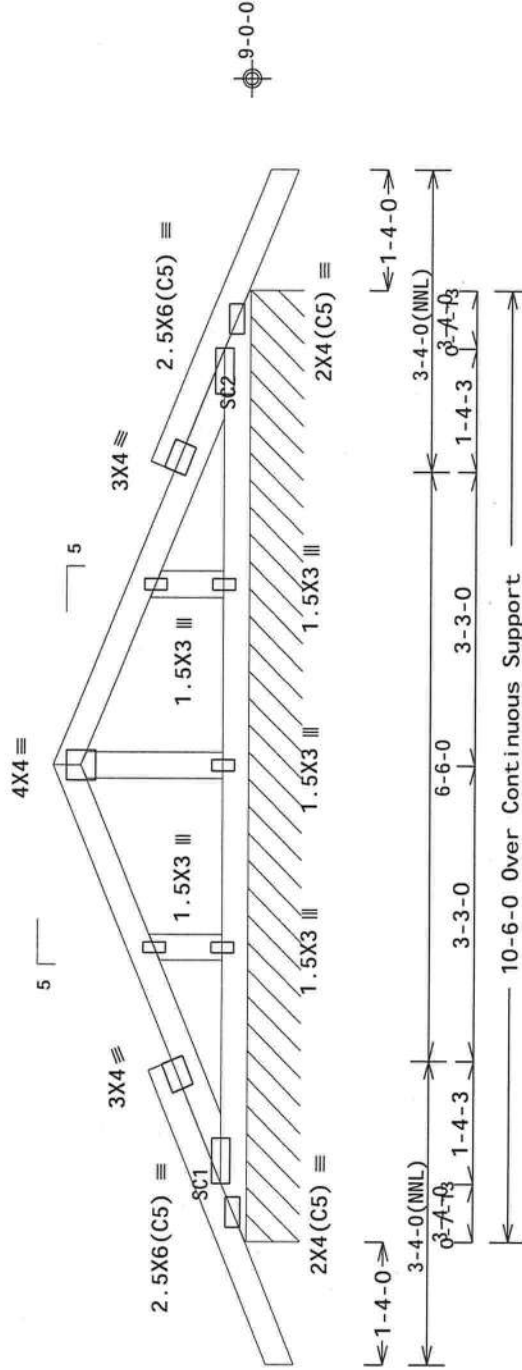
Lumber grades designated with "12A" use design values approved

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 notched 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 notched area using 3x6.

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

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

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.

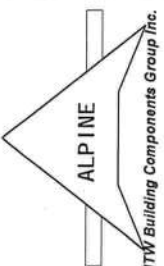


R=90 PLF U=5 PLF W=10-6-0
RL=4/-4 PLF

PLT TYP. Wave

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

Scale = 5"/Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	No. 70861		FL/ -4/- /-R/-	Scale = 5"/Ft.
	TC LL	20.0 PSF	REF	R9114- 6542
	TC DL	7.0 PSF	DATE	12/07/12
	BC DL	10.0 PSF	DRW	HCUSR9114 12342027
	BC LL	0.0 PSF	HC-ENG	WHK/WHK
	TOT.LD.	37.0 PSF	SEQN-	36176
DUR.FAC. 1.25			SPACING	24.0"
JREF- 1URU9114Z01			12/07/2012	

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - EJ 7' End Jack)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A

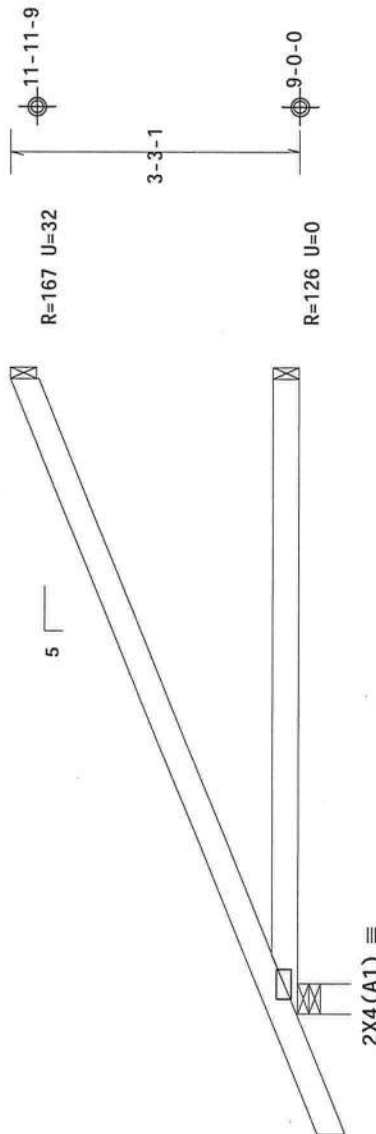
Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC.

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

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 4.50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 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.



1'-4-0"

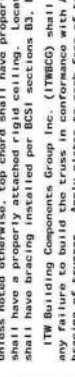
7'-0-0" Over 3 Supports

R=357 U=12 W=4"
RL=57

PLT TYP. Wave

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

Scale = .5"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		No. 70861		REF R9114- 6543	
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WIGA) recommendations for proper installation and bracing. 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 B3, B7 or B10, as applicable.		No. 70861		DATE 12/07/12	
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/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 Joist Details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on the bottom chord of the truss shall indicate the location of the seal. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WIGA: www.wigaindustry.com; ICC: www.iccsafe.org		No. 70861		DRW HCUSR9114 12342028	
	ICC: www.iccsafe.org		No. 70861		HC-ENG WHK/WHK	
	ICC: www.iccsafe.org		No. 70861		SEQN- 36146	
	ICC: www.iccsafe.org		12/07/2012		JREF- 1URU9114Z01	

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - EJ7B 7' End Jack Girder)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

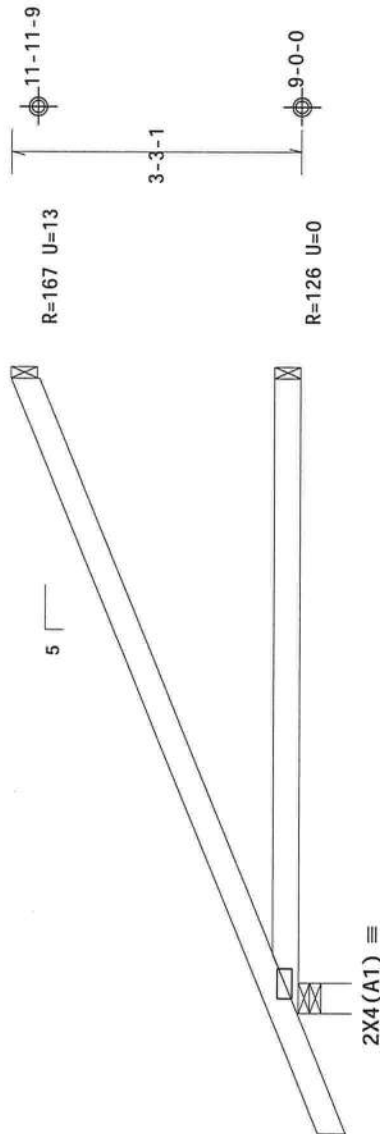
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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=3.5 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.



1-4-0

7-0-0 Over 3 Supports

R=357 U=0 W=4"

RL=38

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

PLT TYP. Wave

ALPINE

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

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 WTCA) for safety details. Trusses shall be installed in accordance with the manufacturer's instructions. Unless noted otherwise, top chord shall have properly attached and installed bracing. 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 the 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 160A-Z for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information, visit the general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.alcindustry.com; ICC: www.iccsafe.org



Scale = 5"/Ft.

FL/-/4/-/R/-	TC LL	20.0 PSF	REF	R9114- 6544
	TC DL	7.0 PSF	DATE	12/07/12
	BC DL	10.0 PSF	DRW	HCUSR9114 12342029
	BC LL	0.0 PSF	HC-ENG	WHK/WHK
	TOT.LD.	37.0 PSF	SEQN-	36170
	DUR.FAC.	1.25		
	SPACING	24.0"	JREF-	1URU9114Z01

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H11A 32' Stepped Hip)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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.

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.

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

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

Negative reaction(s) of -287# 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 II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

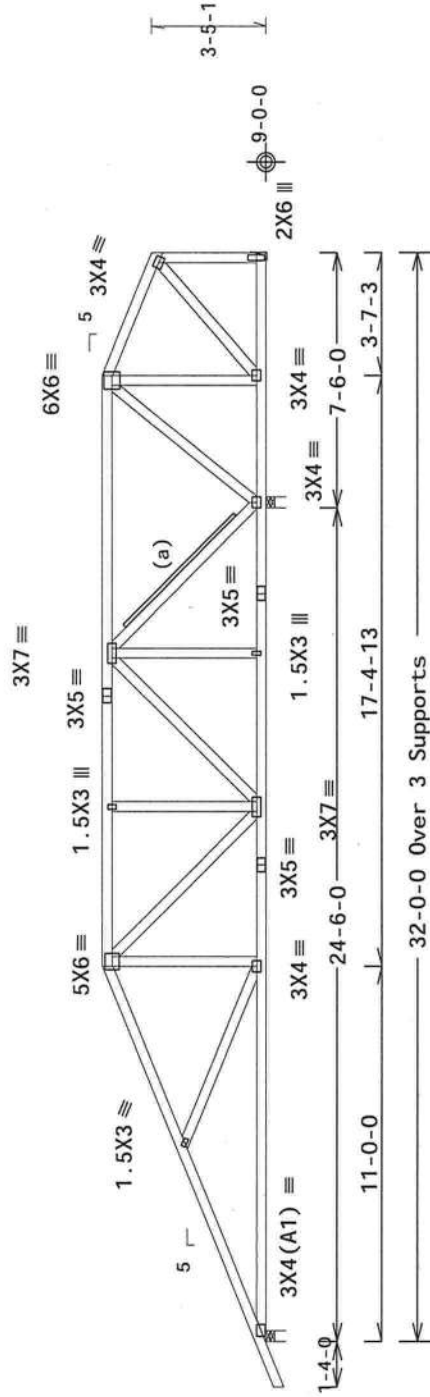
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

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

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

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



R=890 U=36 W=4"
RL=60/-36

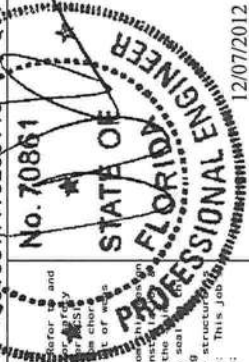
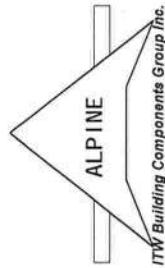
Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=10%(0%)/0(0)
Scale = .1875"/Ft.
FL/-4/-/R/-

PLT TYP. Wave

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ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing and bracing of trusses. Apply plates to each face of truss and position as shown above and on the drawing or cover page listing this drawing. Refer to drawings 1604-2 for standard plate positions. A seal of approval is provided on this drawing, indicating acceptance of professional engineering and structural design by the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpi.net.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R9114- 6545
TC DL	7.0 PSF	DATE	12/07/12
BC DL	10.0 PSF	DRW	HCUSR9114 12342030
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	37.0 PSF	SEQN-	36150
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1URU9114Z01

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H11AS 21'2" Mono Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

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

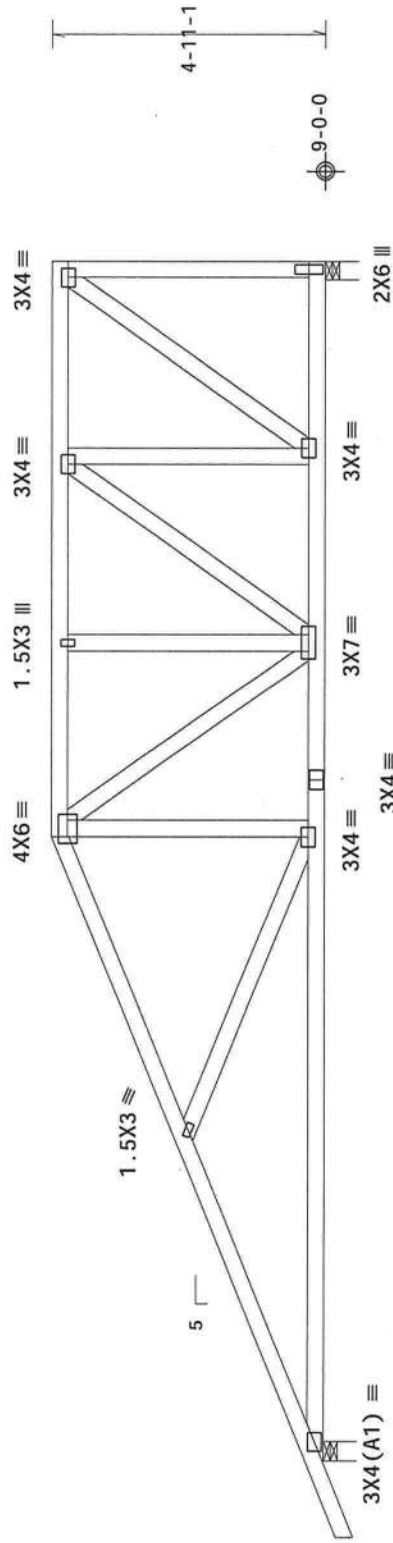
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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

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



L1-4-QJ

11-0-0

10-2-0

21-2-0 Over 2 Supports

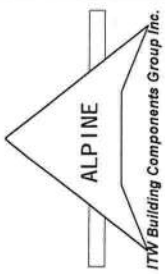
R=884 U=35 W=4"
RL=85

R=787 U=42 W=4"

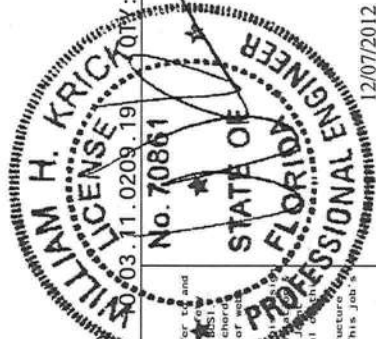
PLT TYP. Wave

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

Scale = .3125"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	No. 70861		TC LL	20.0 PSF	REF	R9114- 6546
	No. 70861		TC DL	7.0 PSF	DATE	12/07/12
	No. 70861		BC DL	10.0 PSF	DRW	HCUSR9114 12342031
	No. 70861		BC LL	0.0 PSF	HC-ENG	WHK/WHK
	No. 70861		TOT.LD.	37.0 PSF	SEQN-	36166
	No. 70861		DUR.FAC.	1.25	JREF-	1URU9114Z01
SPACING		24.0"				

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FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCS Building Component Safety Information, by TPI and WCA. Trusses shall be installed in accordance with the instructions and details provided. 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 BCS 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 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 1604-2 for standard plate positions. A seal of approval is required for all drawings. The seal of approval is a professional engineering seal. The responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: the general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpi.net.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



Top	chord	2x4	SP_#1_12A
Bot	chord	2x4	SP_#1_12A
	Webbs	2x4	SP_#3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

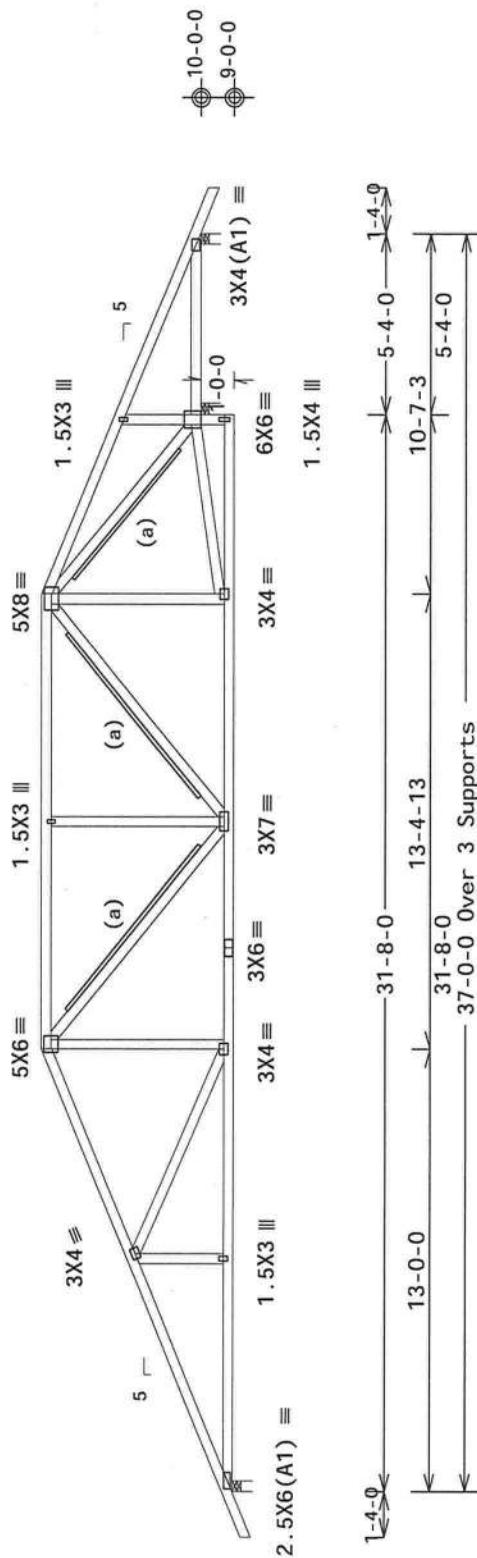
(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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.

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



R=1248 U=57 W=4"
RL=89/-80

R=1530 U=68 W=4"
R=246 U=17 W=3.5"

PLT TYP.: Wave

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

Scale = .1875"/Ft.

ALPINE

ITW Building 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.**

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 WTCA (Wood Truss Council of America) for complete details on the proper handling, bracing, erection and installation of trusses. 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 B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design of this drawing. The user of this drawing is responsible for the design and construction of the structure. The user of this drawing is responsible for the design and construction of the structure. The user of this drawing is responsible for the design and construction of the structure.

any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 180A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The user of this drawing is responsible for the design and construction of the structure. The user of this drawing is responsible for the design and construction of the structure. The user of this drawing is responsible for the design and construction of the structure.

general notes page: ITW-BCG: www.itwbcg.com TPI: www.tpi.net WTCA: www.sbcindustry.com
ITCE: www.itccalc.org

No. 70861

STATE OF FLORIDA

PROFESSIONAL ENGINEER

12/07/2012

TC LL	20.0	PSF	REF	R9114- 6547
TC DL	7.0	PSF	DATE	12/07/12
BC DL	10.0	PSF	DRW	HCUSR9114 12342032
BC LL	0.0	PSF	HC-ENG	WHK/WHK
TOT. LD.	37.0	PSF	SEQN-	36148
DUR. FAC.	1.25			
SPACING	24.0"		JREF-	1URU9114Z01

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H13AS 21'2" Mono Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

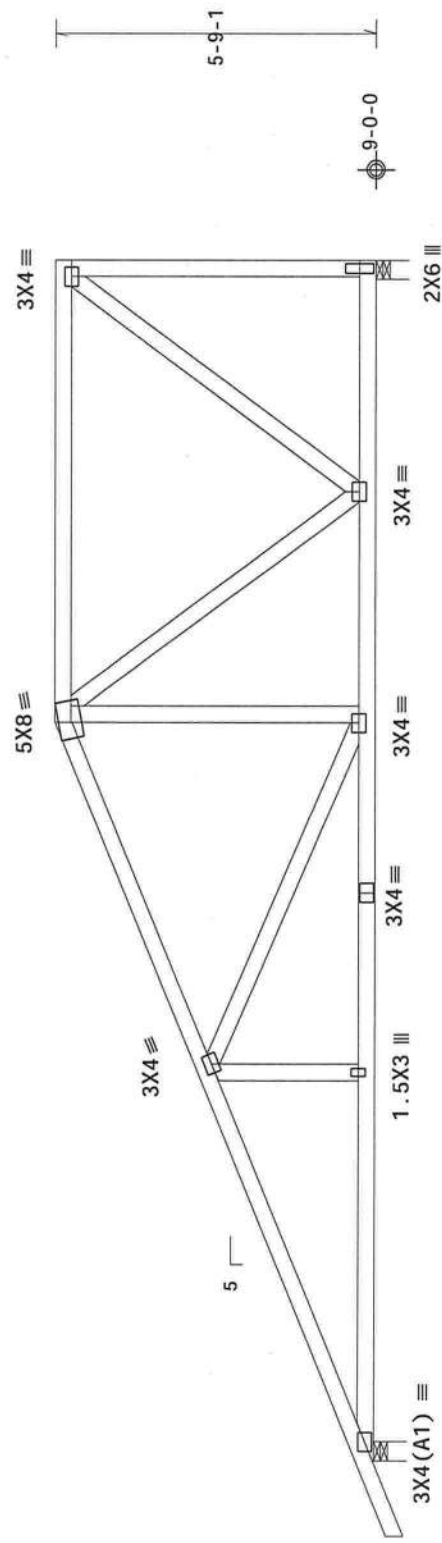
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Right end vertical not exposed to wind pressure.

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

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



1'-4'-0"

13'-0.0"

8'-2.0"

21'-2.0 Over 2 Supports

R=884 U=31 W=4"

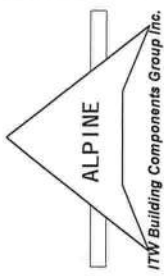
RL=98

R=787 U=45 W=4"

PLT TYP. Wave

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

Scale = .3125"/Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	PLT TYP. Wave		Design Crit: FBC2010Res/TPI-2007(STB) FT/RT=10%(0%)/0(0)		Scale = .3125"/Ft.	
	R=884 U=31 W=4"		R=787 U=45 W=4"		FL/-4/-/R/-	
	21'-2.0 Over 2 Supports		13'-0.0"		TC LL 20.0 PSF	
	1'-4'-0"		8'-2.0"		TC DL 7.0 PSF	
					BC DL 10.0 PSF	
					BC LL 0.0 PSF	
					TOT.LD. 37.0 PSF	
					DUR.FAC. 1.25	
					SPACING 24.0"	
					JREF- 1URU9114Z01	

REF	R9114- 6548
DATE	12/07/12
DRW	HCUSR9114 12342033
HC-ENG	WHK/WHK
SEQN-	36165
JREF-	1URU9114Z01

WILLIAM H. KRICK
LICENSED PROFESSIONAL ENGINEER
No. 70861
STATE OF FLORIDA
12/07/2012

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 WTA) for safety practices prior to performing these functions. Installers shall provide temporary bracing for all trusses until they are properly installed and braced. Locations shown for permanent lateral restraint of trusses shall have a properly attached rigid collar. Locations shown for permanent lateral restraint of 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 the design of trusses. Apply plates to each face of truss and position as shown above and on the details. Details, unless noted otherwise. Refer to drawings 100A-Z for standard plate positions. A section drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility for the design and use of this design for any structural application. This is not a general notice page. ITW-BCG: www.itwbcg.com; TPI: www.tpi.net; WTA: www.wtaindustry.com; ICC: www.iccsafe.org

	Top	chord	2x4	SP_#1	12A
	Bot	chord	2x4	SP_#1	12A
		Webs	2x4	SP_#3	12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

(a) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

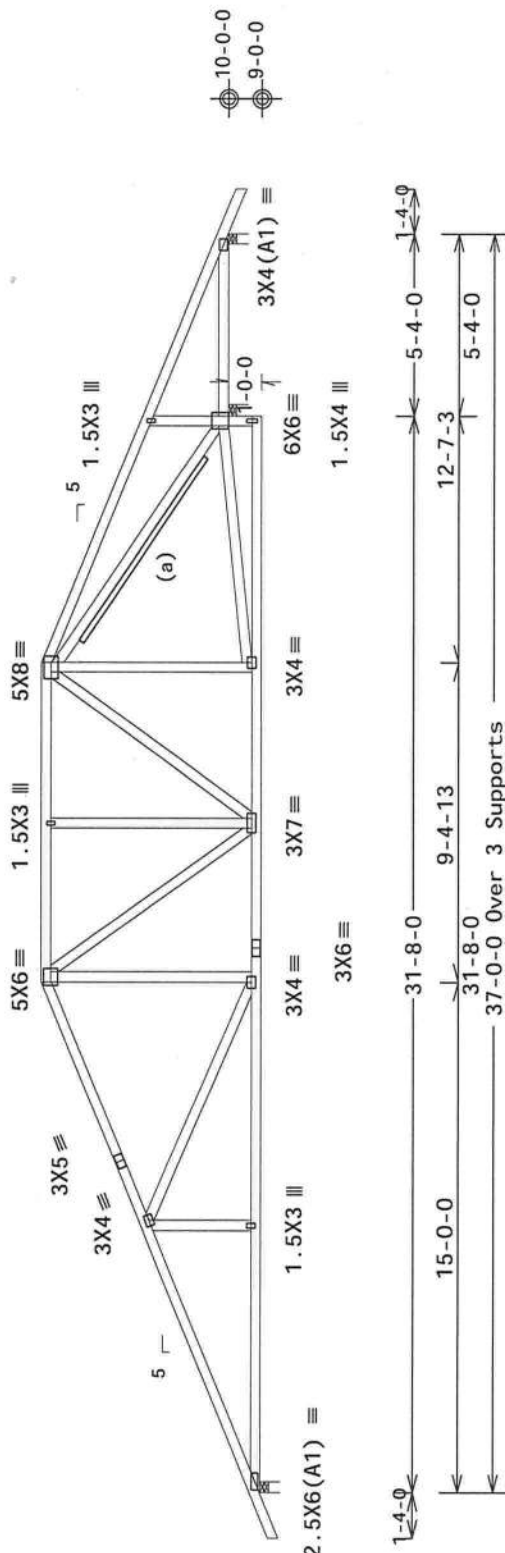
MMFRS loads based on trusses located at least 15.00 ft. from roof edge.

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=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

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

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



R=1260 U=0 W=4"
RL=100/-92

R=1449 U=0 W=4"
R=283 U=0 W=3.5"

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

PLT TYP. Wave

Scale = .1875"/Ft.

IMPORTANT** ****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
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****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET.**
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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 complete details of proper bracing and erection. Trusses are designed to be installed in the manner noted otherwise. Top chord shall have property attached structural sheathing and chord bracing. Bottom chord shall have property attached structural sheathing and chord bracing. All trusses shall have a property 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. (ITWBCC) shall be responsible for any deviation from the design shown on this drawing. The user of this drawing shall be responsible for any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation, or other details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal indicating acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structural application is the responsibility of the building Designer per ANSI/TPI 1 sec.2. For more information see: <http://www.itwbuilding.com>. ITWBCC: tpi@itwbcc.org, [www.itwbuilding.com](http://www.itwbcc.org); www.lescoatf.org

ALPINE

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

12/07/2012

24.0"

REF- 1URU9114Z01

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H15AS 21'2" Stepdown Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

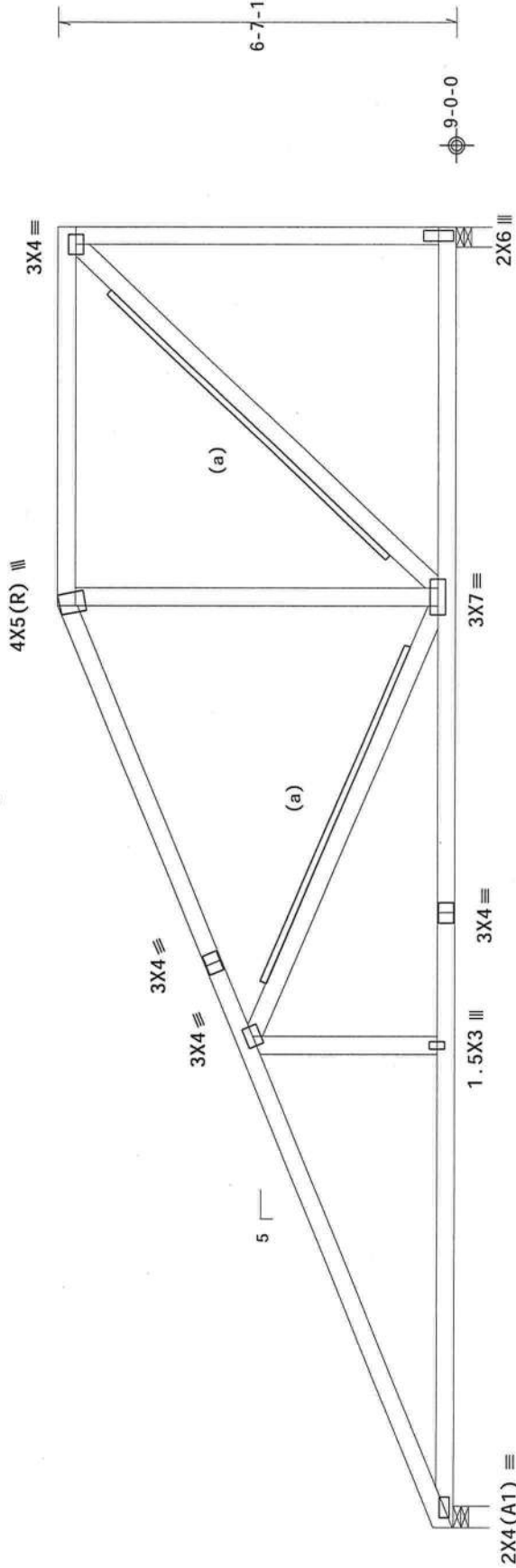
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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

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



15-0-0 6-2-0 6-7-1 9-0-0

21-2-0 Over 2 Supports

R=801 U=0 W=4" RL=69

R=790 U=14 W=4"



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

PLT TYP. Wave

Scale = .375"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	No. 70861		TC LL	20.0 PSF	REF	R9114- 6550
	03.11.0209.19		TC DL	7.0 PSF	DATE	12/07/12
	FLORIDA		BC DL	10.0 PSF	DRW	HCUSR9114 12342035
	PROFESSIONAL ENGINEER		BC LL	0.0 PSF	HC-ENG	WHK/WHK
	12/07/2012		TOT.LD.	37.0 PSF	SEQN-	36164
	This job's		DUR.FAC.	1.25	JREF-	1URU9114Z01

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H17A 37' Stepped Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

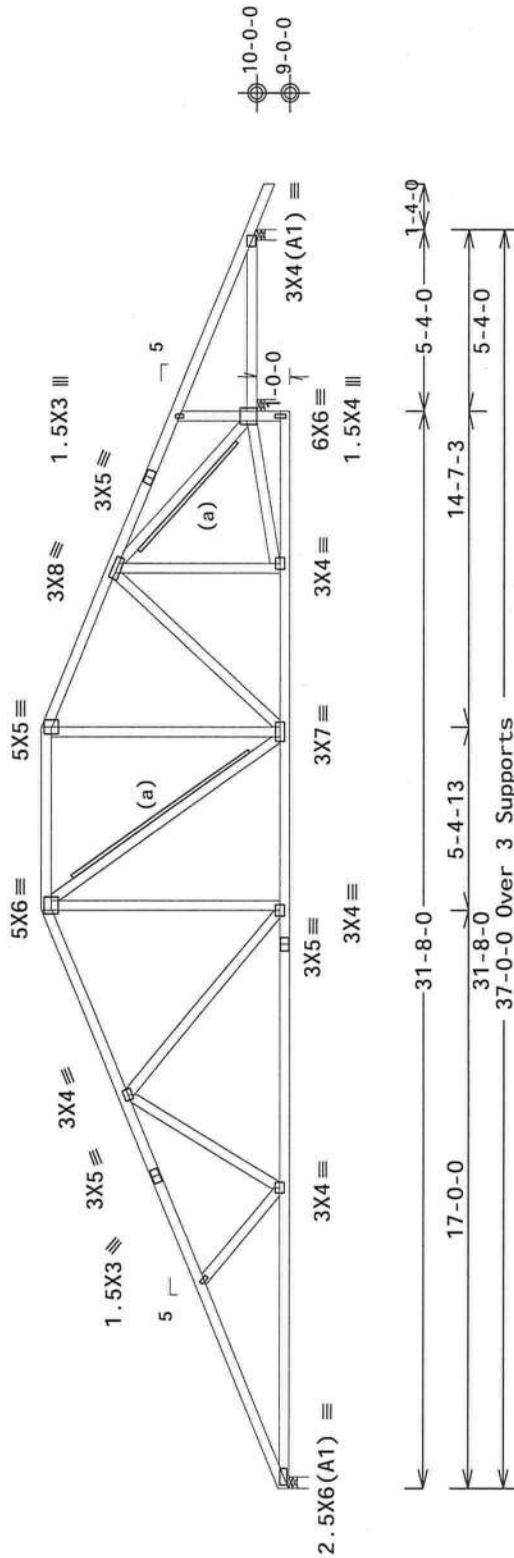
(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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.

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



R=1167 U=0 W=4"
RL=106/-94

R=1533 U=0 W=4"
R=246 U=21 W=3.5"

PLT TYP. Wave

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

Scale = .1875"/Ft.

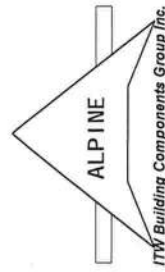
REF R9114- 6551
DATE 12/07/12
DRW HCUSR9114 12342036
HC-ENG WHK/WHK
SEQN- 36159
DUR.FAC. 1.25
SPACING 24.0"

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Haines City, FL 33844
FL COA #0 278

12/07/2012

JREF- 1URU9114Z01

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H17AS 21'2" Stepdown Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

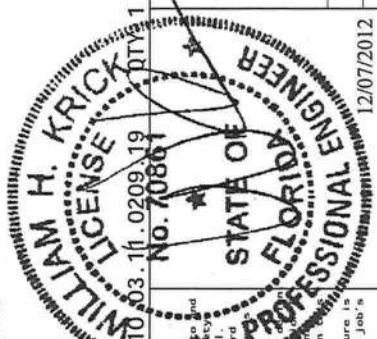
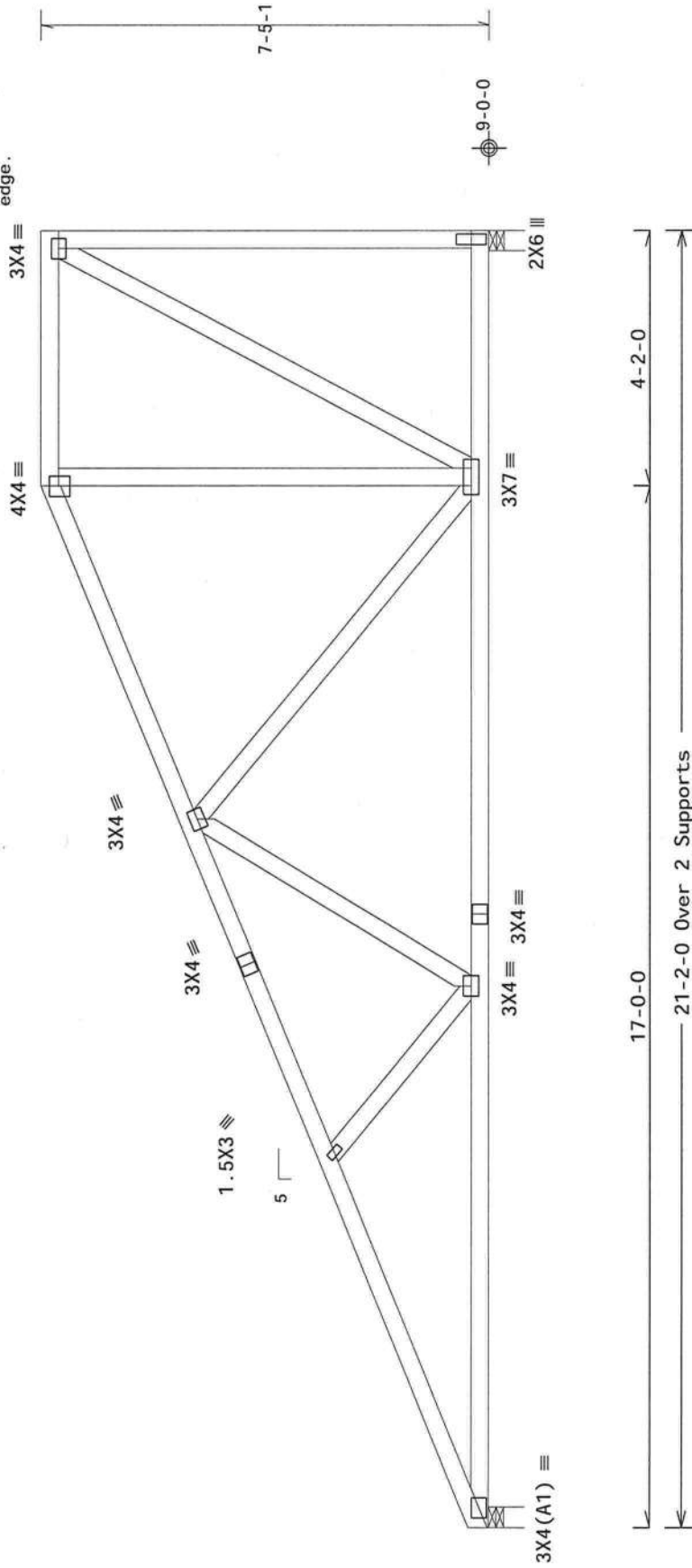
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Right end vertical not exposed to wind pressure.

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.

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



R=790 U=8 W=4"

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

PLT TYP. Wave

Scale = .375"/ft.

ALPINE ITW Building 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. 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 WTCA for safety and handling instructions. Trusses shall be installed in accordance with the instructions provided. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joist Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering structure. It 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.tpinst.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org	NO. 70861	12/07/2012
			
	REF	R9114-	6552
	DATE	12/07/12	
	DRW	HCUSR9114	12342037
	HC-ENG	WHK/WHK	
	SEQN-	36163	
TC LL	20.0	PSF	
TC DL	7.0	PSF	
BC DL	10.0	PSF	
BC LL	0.0	PSF	
TOT.LD.	37.0	PSF	
DUR.FAC.	1.25		
SPACING	24.0"		
JREF-	1URU9114Z01		

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H19A 37' Special)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

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

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

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

(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.

5X5 ≡
5X5 ≡
3X5 ≡
3X4 ≡
3X5 ≡
3X4 ≡
3X8 ≡
3X5 ≡
1.5X3 ≡
5
(a)
(a)
2.5X6(A1) ≡
3X5 ≡
3X4 ≡
3X10 ≡
3X4 ≡
6X6 ≡
1.5X4 ≡
3X4(A1) ≡
10-0-0
9-0-0
31-8-0
19-0-0
31-8-0
37-0-0 Over 3 Supports
1-4-13
16-7-3
5-4-0
1-4-0
R=1171 U=0
RL=117/-105
R=1500 U=0 W=4
R=260 U=14 W=3.5

PLT TYP. Wave

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

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

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R9114- 6553
TC DL	7.0 PSF	DATE	12/07/12
BC DL	10.0 PSF	DRW	HCUSR9114 12342038
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT. LD.	37.0 PSF	SEQN-	36160
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1URU9114Z01

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Special loads

Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 55 pif at -1.33 to 55 pif at 7.00
TC- From 28 pif at 7.00 to 28 pif at 19.00
TC- From 28 pif at 19.00 to 28 pif at 32.00
BC- From 4 pif at -1.33 to 4 pif at 0.00
BC- From 20 pif at 0.00 to 20 pif at 7.03
BC- From 10 pif at 7.03 to 10 pif at 16.00
BC- From 10 pif at 16.00 to 10 pif at 32.00
TC- 238.62 lb Conc. Load at 7.03
TC- 167.30 lb Conc. Load at 9.06, 11.06, 13.06, 15.06
17.06, 19.06, 21.06, 23.06, 25.06, 27.06, 29.06, 31.06
BC- 450.24 lb Conc. Load at 7.03
BC- 125.58 lb Conc. Load at 9.06, 11.06, 13.06, 15.06
17.06, 19.06, 21.06, 23.06, 25.06, 27.06, 29.06, 31.06

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.

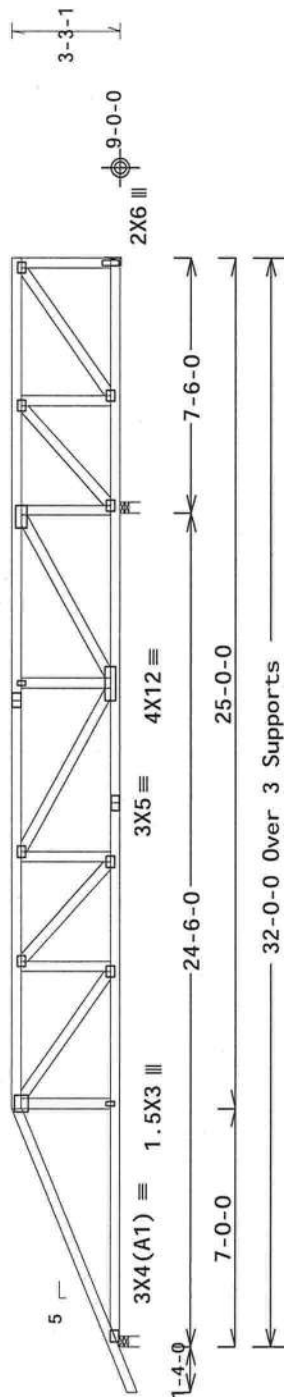
Bottom chord checked for 10.00 psf non-concurrent live load.

5X6 ≡

3X5 ≡

1.5X3 ≡

4X8 ≡



R=5068 U=235 W=4"

32'-0'-0 Over 3 Supports

R=1956 U=99 W=4"

R=-629 Rw=22 U=0 H=Simpson LUS26-2
Supported Member Face: (3) 0.162"x3.5" nails
Supporting Member Face: (4) 0.162"x3.5" nails
Supporting Member: (2) 2x6 SP_#2_12A

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

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

PLT TYP. Wave

Scale = .1875"/Ft.

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

IC LL 20.0 PSF

TC DL 7.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 37.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R9114- 6555

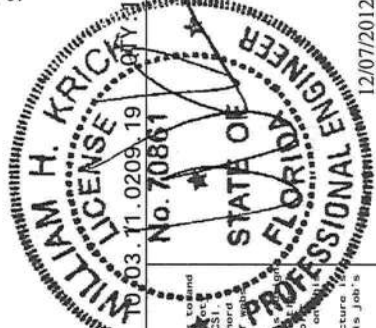
DATE 12/07/12

DRW HCUSR9114 12342040

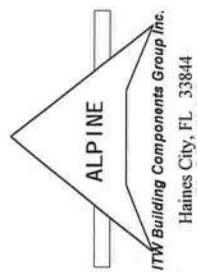
HC-ENG WHK/WHK

SEQN- 36174

JREF- 1URU9114Z01



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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety) Information, by TPI and WTA. Unless noted otherwise, top chord shall have properly attached structural sheathing and fasteners shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of top chord 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 conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 1600A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering 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; WTA: www.sbcindustry.com; ICC: www.iccsafe.org



Top chord	2x4	SP_#1_12A
3ot chord	2x4	SP_#1_12A
Webbs	2x4	SP_#3_12A

Lumber grades designated with "12A" use design values approved 11/5/2012 by ALSC.

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

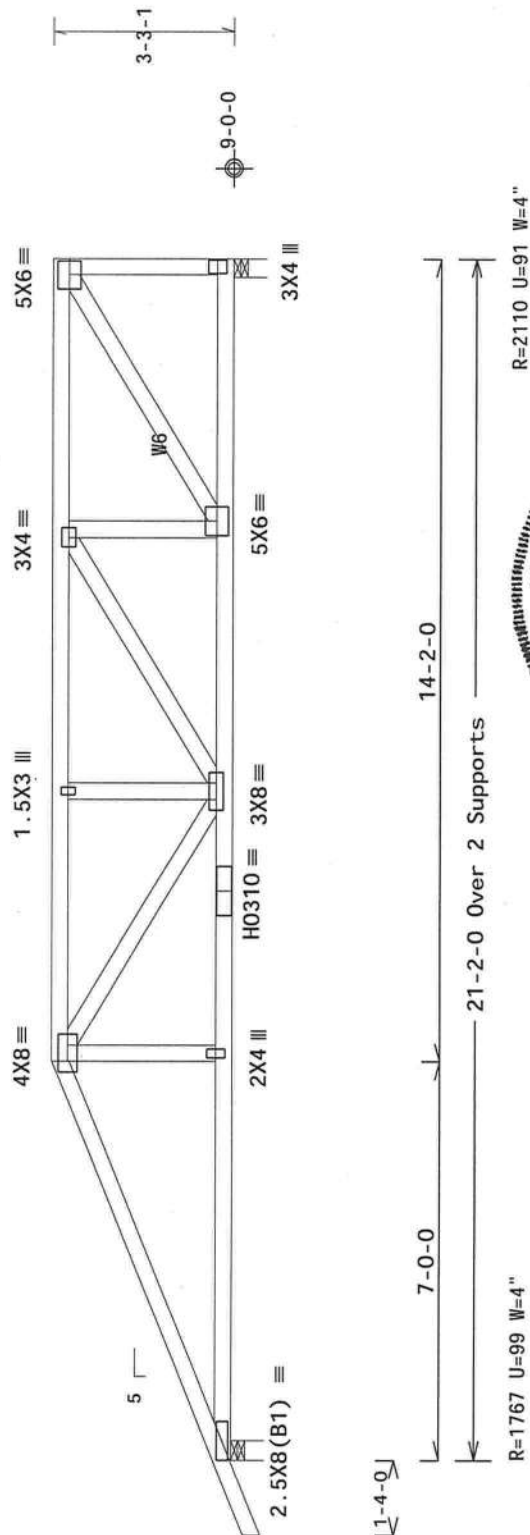
Wind loads and reactions based on MWFRS:

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

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

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.



R=1767 U=99 W=4"

R=2110 U=91 W=4"

PLT TYP. 20 Gauge HS, Wave

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

Scale = .3125"/Ft.

R9114- 6556

DATE 12/07/12

UPW HCUISD9114 12342041

ENC 10012 / 000112

IC-ENG WHK/WHK

EQN- 36175

REF- 1URU9114Z01

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

Trusses require extreme care in fabricating, shipping, handling, installing and bracing. To obtain a complete list of GCS Building Components Safety Information, by TPI and WCA, contact the nearest GCS distributor or write to GCS, 10000 W. 10th Avenue, Suite 100, Denver, CO 80231. For more information on the safety of GCS trusses, contact the nearest GCS distributor or write to GCS, 10000 W. 10th Avenue, Suite 100, Denver, CO 80231. For more information on the safety of GCS trusses, contact the nearest GCS distributor or write to GCS, 10000 W. 10th Avenue, Suite 100, Denver, CO 80231.

ITW Building Components Group Inc. (ITWBGC) shall be responsible for any deviation from specifications or standards due to its failure to build the truss in accordance with ANSI/TPI 1-97 for handling and erecting of trusses. Apply plates to each face of truss and position as shown above and on the back of drawings. Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A sealant framing 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 structural application is the liability of the building designer per ANSI/TPI 1 Sec.2. For more information see: ITWBGC website (www.itwbuilding.com). ITWBGC's email address: WTB@itwbgc.com; general inquiries: info@itwbgc.com.
CC: www.icsafe.org

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

City, FL 338
FL COA #0 278

100

Top chord	2x4	SP_#1	12A
Bot chord	2x4	SP_#1	12A
Webbs	2x4	SP_#3	12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

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

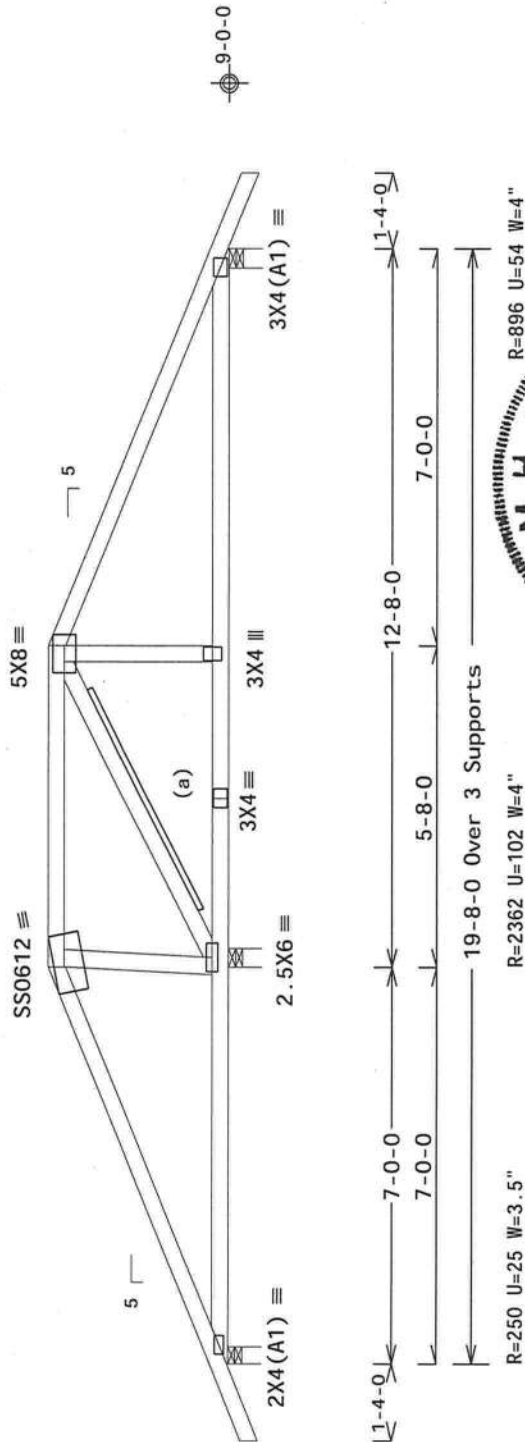
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Special loads

-----	(Lumber	Dur. Fac.=1.25 /	Plate	Dur. Fac.=1.25)
TC-From	55 pif at	-1.33 to	55 pif at	7.00
TC-From	28 pif at	7.00 to	28 pif at	12.67
TC-From	55 pif at	12.67 to	55 pif at	21.00
BC-From	4 pif at	-1.33 to	4 pif at	0.00
BC-From	20 pif at	0.00 to	20 pif at	7.03
BC-From	10 pif at	7.03 to	10 pif at	10.00
BC-From	20 pif at	10.00 to	20 pif at	12.64
BC-From	20 pif at	12.64 to	20 pif at	19.67
BC-From	4 pif at	19.67 to	4 pif at	21.00
TC-238.62	1b Conc.	Load at	7.03, 12.64	
TC-167.30	1b Conc.	Load at	9.06, 10.60	
BC-450.24	1b Conc.	Load at	7.03, 12.64	
BC-125.58	1b Conc.	Load at	9.06, 10.60	

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=896 U=54 W=4"

R=2362 U=102 W=4"

R=250 U=25 W=3.5"

PLT TYP. 18 Gauge HS Wave

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

Scale = .3125"/Ft.

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WITCA) recommendations prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses must be properly braced during erection. Trusses shall have properly attached structural sheathing and bottom chord bracing. Trusses shall be properly braced during erection for permanent lateral bracing per BCSI. Trusses shall be installed per BCSI.

[illegible]

Haines City, FL 33844

JREF- 1URU9114Z01

12/07/2012

SPACING 24 0"

JREF- 1URU9114Z01

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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.

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

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

Negative reaction(s) of -283# 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 II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18.

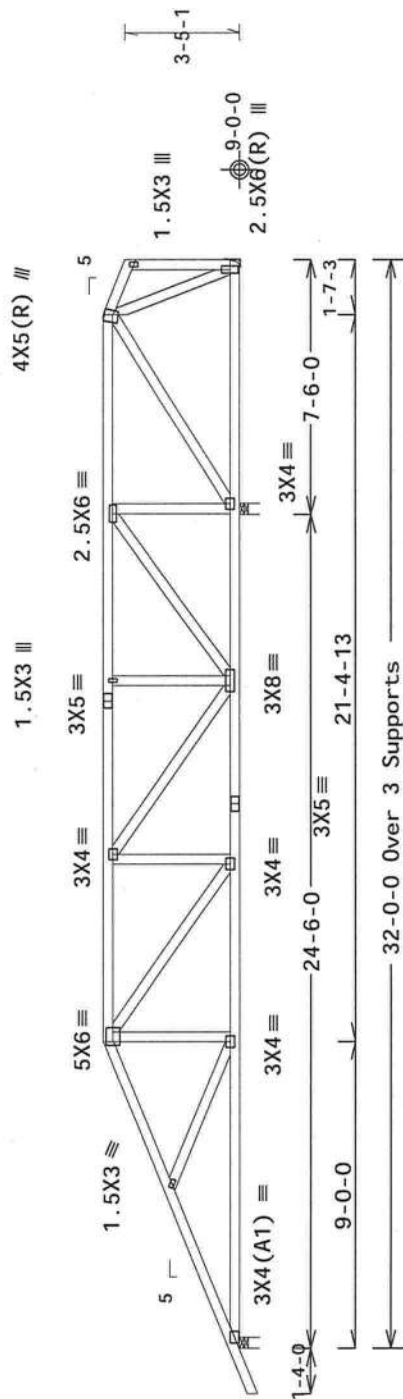
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

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

Bottom chord checked for 10,00 psf non-concurrent live load.

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



R=901 U=39 W=4"
RL=60/-25

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

PLT TYP. Wave

FL/-/4/-/-/R/-/
Scale = 1875"/Ft.

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET
WHICH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

IMPORTANT—FOURNISH THIS DESIGN TO ALL SUBCONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BECI (Building Component Safety Information, by TPI and WTC) practices prior to performing these functions. Installers shall provide temporary bracing until trusses are properly attached to the building. Trusses noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached structural sheathing and bracing. For additional information, contact BECI at 83-67 R10, or call 1-800-368-6831.

TW Building Components Group Inc. (**TWBCG**) shall not be responsible for any deviation from the design shown on drawings issued by TWBCG or its subsidiaries, agents, affiliates or representatives, including those resulting from misinterpretation of drawings, omissions, errors, or other factors relating to the processing of requests. Apply plates to each face of trusses and position as shown on drawings. Details, unless noted otherwise. Refer to drawings TEK-2 for standard plate positions. A drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any particular application is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see the following website: www.twbuilding.com. For more information see the following website: TW-BCG@twbuilding.com. **TWBCG**, www.twbuilding.com, www.twinprint.org.

ALPINE

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

JREF- 1URU9114Z01

SPACING 24.0"

12/07/2012

is now

www.sbcindustry.com

l: www.tpinst.org

TW-BCG: www.twbcg.com

ICC: www.icc.org

es City, FL 338
I COA #0 278

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H9AS 21'2" Mono Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

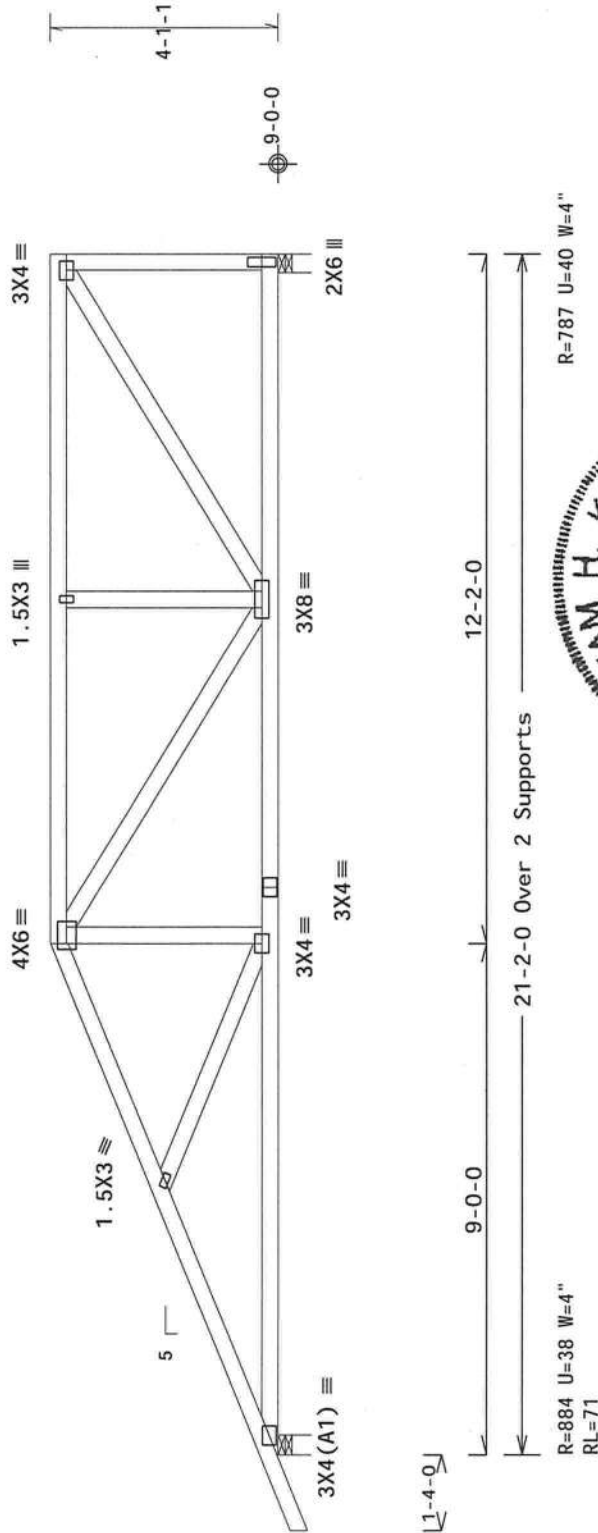
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Right end vertical not exposed to wind pressure.

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

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



R=787 U=40 W=4"

Design Crit: FBC2010Res/TPI-2007 (STD)

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

PLT TYP. Wave

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 BCSI (Building Component Safety Information, by TPI and WTC) practices prior to performing these functions. Installers shall provide temporary bracing to maintain the truss in its designed position until it is permanently braced. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from 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 160A-2 for standard plate positions. A seal drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. This drawing is not to be used for any structure other than that specifically intended for this design. For more information, contact ITWBCG at 1-800-368-7262. General notes page: ITW-BCG; www.itwbcg.com; TPI: www.tpiinst.org; WTC: www.alcnafo.org; ICC: www.icc-ccafo.org

Scale = .3125" / Ft.

REF R9114- 6559

DATE 12/07/12

DRW HCUSR9114 12342044

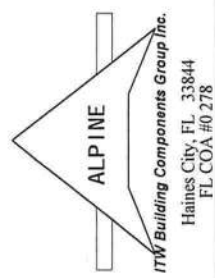
HC-ENG WHK/WHK

SEQN- 36167

DUR.FAC. 1.25

SPACING 24.0"

JREF- 1URU9114Z01



(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - H9C 19'8" Stepped Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

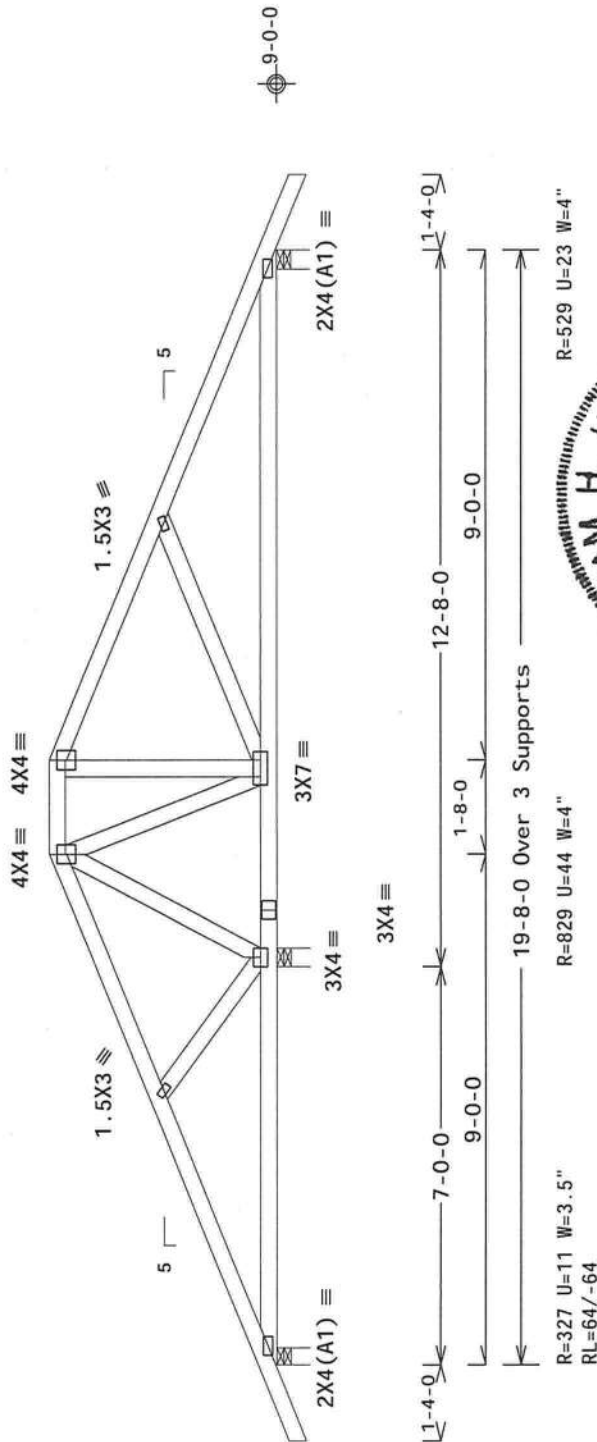
In lieu of structural panels use purlins to brace all flat TC @ 24"

MWFRS loads based on trusses located at least 7.50 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.

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



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

R=327 U=11 W=3.5"

R=829 U=44 W=4"

RL=64/-64

PLT TYP. Wave

Scale = .3125"/Ft.

REF R9114- 6560

DATE 12/07/12

DRW HCUSR9114 12342045

HC-ENG WHK/WHK

SEQN- 36141

JREF- 1URU9114Z01

SPACING 24.0"

DUR.FAC. 1.25

TOT.LD. 37.0 PSF

BC LL 0.0 PSF

BC DL 10.0 PSF

TC DL 7.0 PSF

TC LL 20.0 PSF

FL/-4/-/-R/-

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0278

WILLIAM H. KRICK

Professional Engineer

No. 70861

STATE OF FLORIDA

12/07/2012

****IMPORTANT**** 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 shall provide temporary bracing for all trusses noted otherwise. Top chord shall have properly attached structural sheathing and built-up chords shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure other than that specifically intended by the building designer (ASD/ITW) shall be the responsibility of the user. ITWBCG: www.itwbcg.com; TPI: www.tpiusa.com; WCA: www.abctindustry.com; ICC: www.iccsafe.org

(12-381--Sparks Construction Wyatt HPG-1600M -- Lake City, FL - HJ7 9'10"13 Hip Jack Girder)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

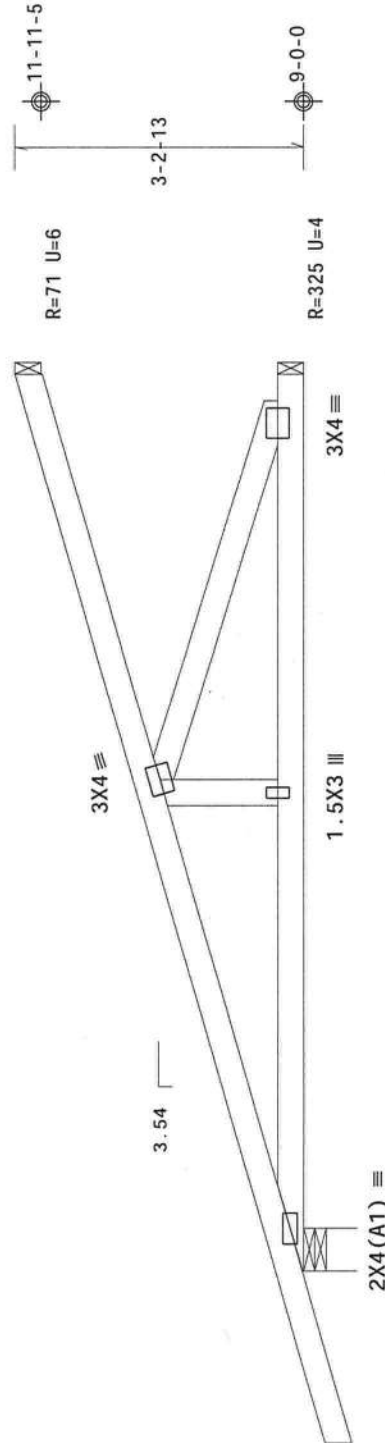
Wind loads and reactions based on MWFRS.

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.

Special loads

Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25
TC- From 0 plf at -1.89 to 55 plf at 0.00
TC- From 2 plf at 0.00 to 2 plf at 9.90
BC- From 0 plf at -1.89 to 4 plf at 0.00
BC- From 2 plf at 0.00 to 2 plf at 9.90
TC- -19.48 lb Conc. Load at 1.48
TC- 116.04 lb Conc. Load at 4.31
TC- 229.07 lb Conc. Load at 7.13
BC- 15.78 lb Conc. Load at 1.48
BC- 98.48 lb Conc. Load at 4.31
BC- 175.55 lb Conc. Load at 7.13



← 1-10-10 →
9-10-13 Over 3 Supports
R=314 U=58 W=5.657"



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

PLT TYP. Wave

ALPINE

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

12/07/2012

Scale = .5" / Ft.

REF R9114- 6561
DATE 12/07/12
DRW HCUSR9114 12342046
HC-ENG WHK/WHK
SEQN- 36171
DUR.FAC. 1.25
SPACING 24.0"

CLB WEB BRACE SUBSTITUTION

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

NOTES:

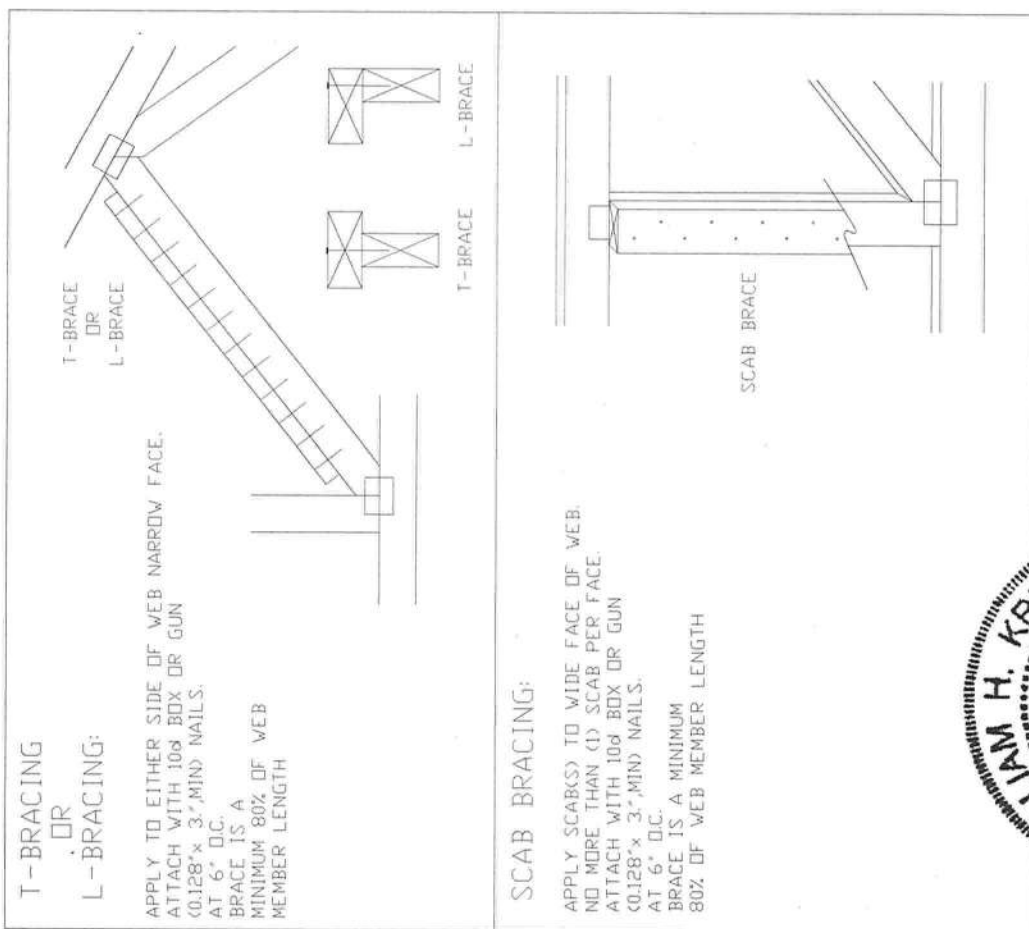
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED
CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB
BRACING.

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

WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(※)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(※)

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

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



	REF	CLB SUBST.
	DATE	1/1/09
	DRWG	BRCLESUB0109
	PSF	TC LL
	PSF	TC DL
	PSF	BC DL
	PSF	BC LL
		TOT. LD.
	DUR. FAC.	
	SPACING	

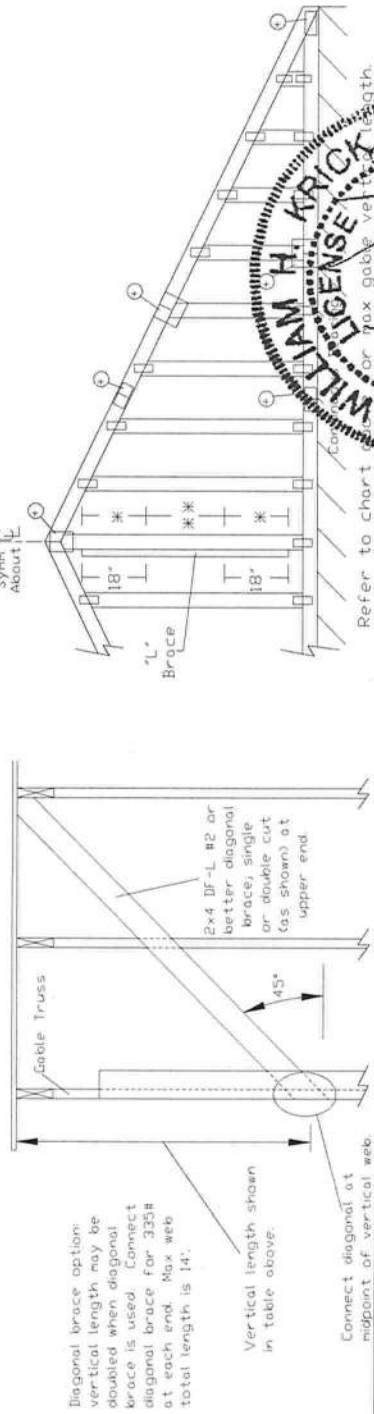


Gable Stud Reinforcement Detail

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

Dr: 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00
 Dr: 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Gable Vertical Spacing	Brace	No. Braces	(1) 1x4 "L" Brace *												(2) 2x6 "L" Brace **				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	Group A	Group B	
Max Gable Vertical Length	SPF	4' 10"	8' 2"	8' 6"	9' 8"	10' 1"	11' 6"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	4' 11"	8' 3"	8' 7"	9' 9"	10' 1"	11' 7"	11' 7"	11' 7"	11' 7"	11' 7"	11' 7"	11' 7"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	4' 7"	6' 11"	7' 4"	9' 3"	9' 10"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	4' 7"	6' 0"	6' 4"	8' 0"	8' 6"	11' 1"	11' 1"	11' 1"	11' 1"	11' 1"	11' 1"	11' 1"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	5' 3"	9' 3"	9' 9"	10' 11"	11' 4"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	5' 3"	9' 3"	9' 9"	10' 11"	11' 4"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	5' 3"	9' 3"	9' 9"	10' 11"	11' 4"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	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"	14' 0"
	HF	6' 2"	10' 5"	10' 9"	12' 3"	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"	14' 0"
	SP	6' 1"	10' 4"	10' 8"	12' 2"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	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"	14' 0"



Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 335# 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 for max gable vertical length.

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING. 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 BCSI Building Component Safety Information, by TPI and VTCB for proper bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of this drawing by the Building Designer. 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.tpinet.org, VTCB www.vtcba.com, ICC www.iccsafe.org

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing. Failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of this drawing by the Building Designer. 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.tpinet.org, VTCB www.vtcba.com, ICC www.iccsafe.org

Professional Engineer
 WILLIAM H. KRICK
 LICENSE No. 70861
 STATE OF FLORIDA
 12/6/2012

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

Bracing Group Species and Grades:

Group A:

SPF	Standard	Hen-Fir
HF	Standard	#2
SP	Standard	#3

Group B:

SPF	Standard	Hen-Fir
HF	Standard	#2
SP	Standard	#3

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" outloak with 2' 0" overhang, or 12' plywood overhang.

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

Attach 1" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" braces space nails at 2' o.c.

* 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 ASCE 7-10-GAB12015
 DATE 2/14/12
 DRWG A12015ENC100212

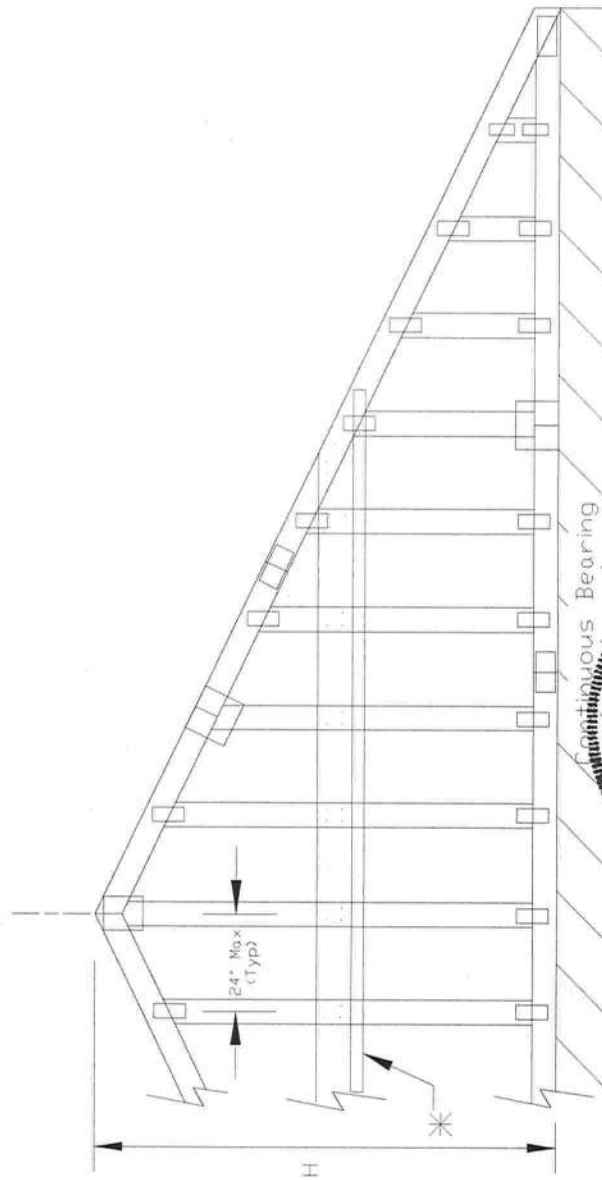
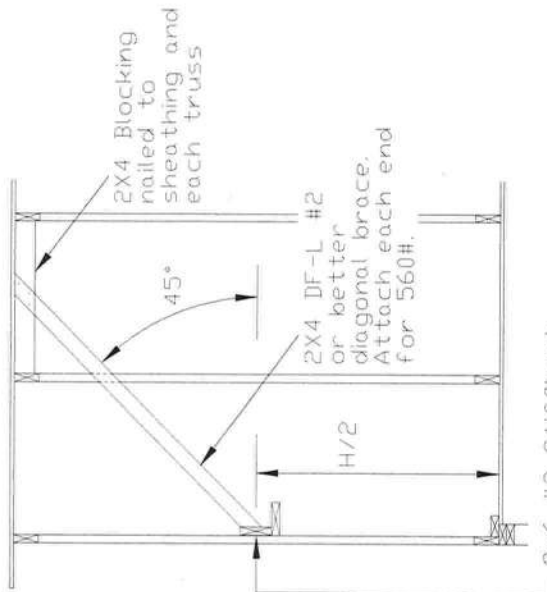
ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

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" x 3", min) nails.



2x6 #2 Stiffback
attached to each
Stud w/ (4) 10d bolts

WARNING READ AND FOLLOW ALL NOTES ON 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 BCSP (Building Component Safety Information, by TPI and WCA) safety practices prior to performing these functions. Installers shall provide temporary bracing and shoring until the truss chord shall have properly attained structural sheathing and erection. The truss chord shall have a minimum of 12" of sheathing. All lateral bracing shall be installed per BCSP sections 83, 87 and 810, as applicable. All plate connections shall be made in accordance with the design drawings. Refer to the lateral bracing details on each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing or failure to build the truss in conformance with ANSI/TPI-1, or for handling, shipping, installation & unloading of trusses. A seal on this drawing or cover page listing this drawing, indications & signatures 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 Sec.2. For more information see this job's general notes page and those web sites:
www.itwbc.com, www.itwbuildingcomponents.com, ITW-BCC, www.itwinc.com, TPI

Earth City, MO 63045

No. 70861
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REF	GE WHALER
DATE	2/14/12
DRWG	GABRST10021

MAX. TOT. LD. 60 PSF
MAX. SPACING