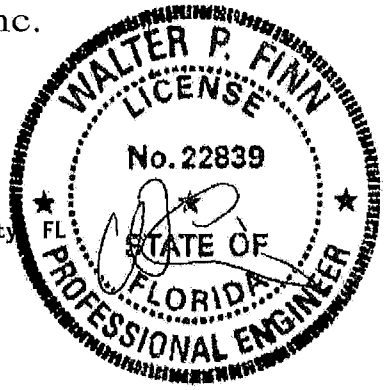
ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
 Document ID IV1J487-Z0122093524



Truss Fabricator	Anderson Truss Company
Job Identification	13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL
Truss Count	36
Model Code	Florida Building Code 2010
Truss Criteria	FBC2010Res/TPI-2007(STD)
Engineering Software	Alpine Software,Versions 12.03, 13.01.
Structural Engineer of Record	The identity of the structural EOR did not exist as of
Address	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads	Roof - 37.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 120 MPH ASCE 7-10 -Closed

11/22/2013

Notes

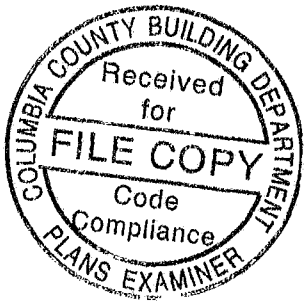
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown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

Walter P Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

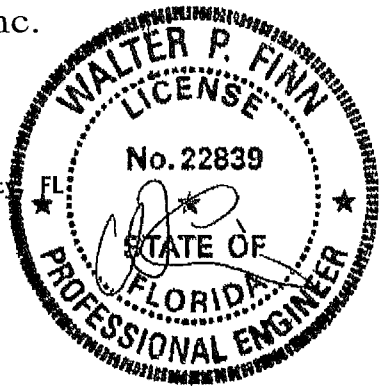
Details: 14015EC1-GBLLETIN-BRCLBSUB-PB16010-

#	Ref	Description	Drawing#	Date
1	28444-A	38'9"8 Stepdow	13326001	11/22/13
2	28445-A1	38'9"8 Stepdo	13326002	11/22/13
3	28446--B	19'7"8 Common	13326003	11/22/13
4	28447-B1	19'7"8 Common	13326004	11/22/13
5	28448-BG1	11'7" Common	13326035	11/22/13
6	28449-BGE	19'7"8 Gable	13326022	11/22/13
7	28450--CJ1	1' Jack	13326023	11/22/13
8	28451--CJ3	3' End Jack	13326024	11/22/13
9	28452--CJ5	5' Jack	13326025	11/22/13
10	28453--EJ3	3' End Jack	13326026	11/22/13
11	28454--EJ7	7' End Jack	13326027	11/22/13
12	28455-EJ7A	7' End Jack	13326005	11/22/13
13	28456-EJ7B	7' End Jack	13326006	11/22/13
14	28457-EJ7B	7' End Jack	13326007	11/22/13
15	28458-EJ7C	7' End Jack	13326008	11/22/13
16	28459-H11	38'9"8 Stepd	13326009	11/22/13
17	28460-H11A	26'4" Stepd	13326010	11/22/13
18	28461-H13	38'9"8 Stepd	13326011	11/22/13
19	28462-H13A	26'4" Stepd	13326012	11/22/13
20	28463-H15	38'9"8 Stepd	13326013	11/22/13
21	28464-H15A	26'4" Stepd	13326014	11/22/13
22	28465-H17	38'9"8 Stepd	13326015	11/22/13
23	28466-H17A	26'4" Stepd	13326016	11/22/13
24	28467-H19	38'9"8 Stepd	13326017	11/22/13
25	28468-H19A	26'4" Stepd	13326018	11/22/13
26	28469-H3	11'7" Stepdow	13326019	11/22/13
27	28470-H5	11'7" Stepdow	13326020	11/22/13
28	28471-H7	38'9"8 Stepdo	13326021	11/22/13
29	28472-H7A	26'4" Stepdo	13326036	11/22/13
30	28473-H9	38'9"8 Stepdo	13326028	11/22/13
31	28474-H9A	26'4" Stepdo	13326029	11/22/13
32	28475-HJ3	4'2"15 Hip J	13326030	11/22/13
33	28476-HJ7	9'10"13 Hip	13326031	11/22/13
34	28477-HJ7A	9'10"13 Hip	13326032	11/22/13
35	28478-PBA	4'9"6 Common	13326033	11/22/13
36	28479-PBA1	4'9"6 Stepd	13326034	11/22/13



ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
 Document ID 1V1J487-Z0122093524



Truss Fabricator	**Anderson Truss Company**
Job Identification	**13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL**
Truss Count	**1**
Model Code	**Florida Building Code 2010**
Truss Criteria	**FBC2010Res/TPI-2007(STD)**
Engineering Software	**Alpine Software,Versions 12.03, 13.01.**
Structural Engineer of Record	
Address	
Minimum Design Loads	**Roof - 37.0 PSF @ 1.25 Duration** **Floor - N/A** **Wind - 120 MPH ASCE 7-10 -Closed**

11/22/2013

-Truss Design Engineer-
Walter P Finn

1950 Marley Drive
Haines City, FL 33844

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**

Revised Trusses

#	Ref	Description	Drawing#	Date
1	28472-H7A	26'4" Stepdo	13326036	11/22/13

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - A 38'9"8 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B' use design values approved 1/30/2013 by ALSC

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

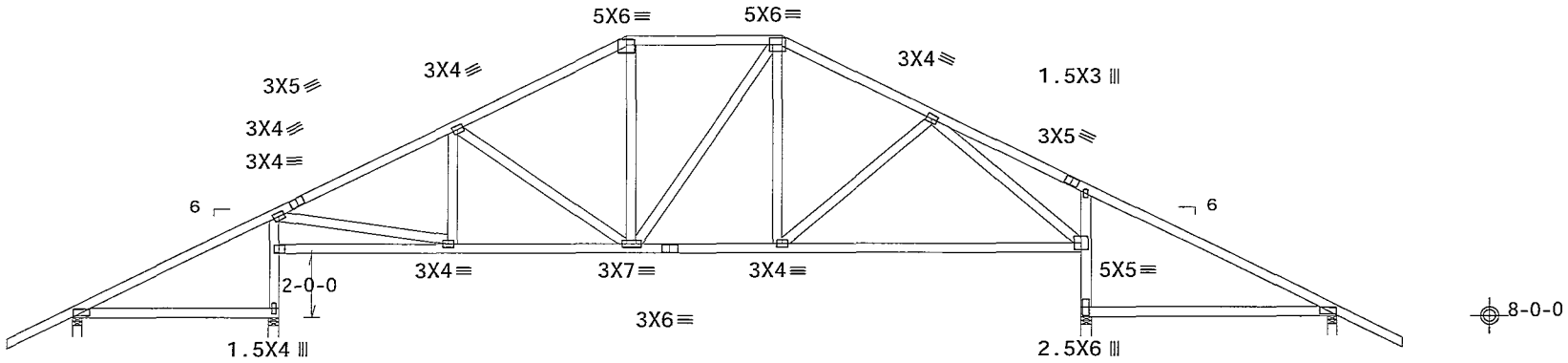
MWFRS loads based on trusses located at least 15 00 ft from roof edge

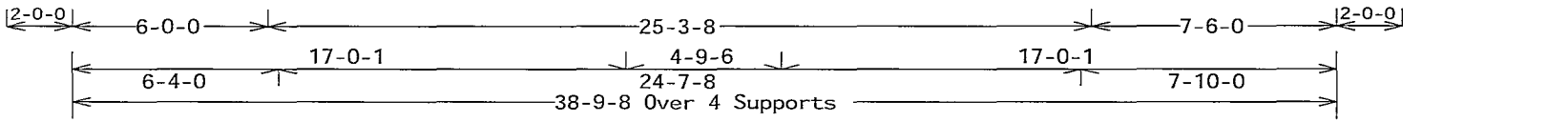
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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

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=359 U=38 W=3 5' (3 5" min)
RL=162/-162 R=1196 U=0 W=4 (4' min)

R=1231 U=0 W=4" (4" min)
R=413 U=9 W=3 5" (3 5" min)

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 12 03.04 03Dec13 QTY·3 FL/-/5/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 n fabr cating handl ng sh pp ng nstall ng and brac ng Refer to and follow the latest ed t on of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces pr or to perform ng these functions Installers shall prov de temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rig d ce l ng Locat ons shown for permanent lateral restraint of webs sha l have brac ng installed per BCSI sect ons B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any deviat on from th s design any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handl ng sh pp ng nstallat on bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos t ons A seal on th s drawing or cover page listing th s drawing nd cates acceptance of profess onal eng neer ng responsibility solely for the des gn shown The suitabil ty and use of th s des gn for any structure s the respons bility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformation see This job s general notes page ITW-BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28444
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326001
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330910
DUR.FAC.	1.25		
SPACING	24 0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - A1 38'9"8 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

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

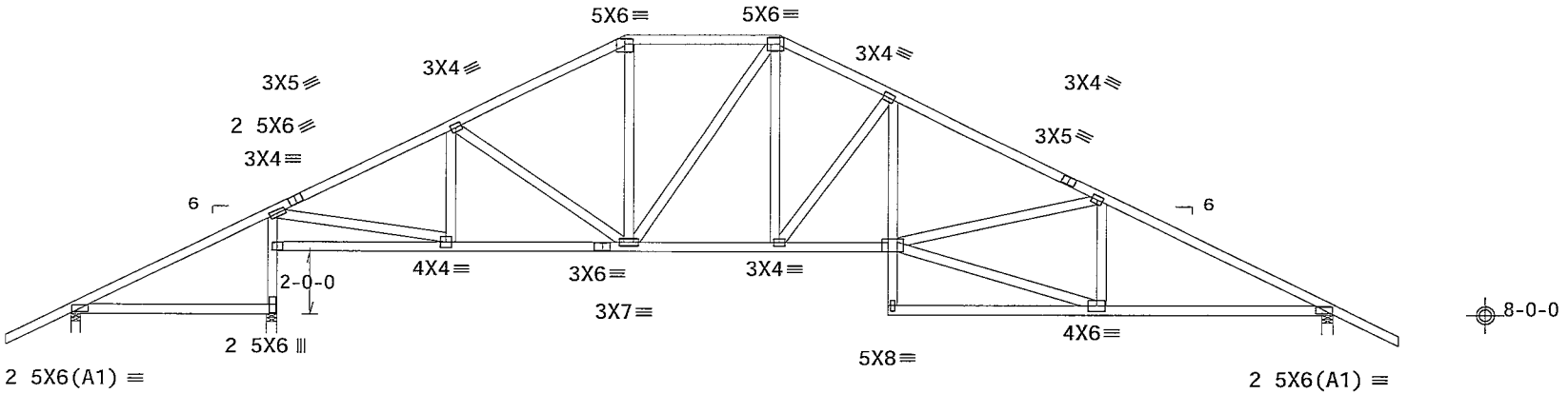
MWFRS loads based on trusses located at least 15 00 ft from roof edge

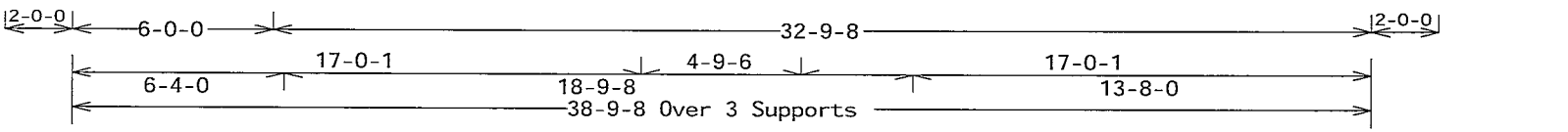
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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

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=351 U=39 W=3 5" (3 5" min)
RL=162/-162 R=1496 U=0 W=4' (4 min)

R=1355 U=0 W=4" (4" min)

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 QTY:1 FL/-/5/-/-/R/- Scale = 1875"/Ft.

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

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

Trusses requ re extreme care n fabr cat ng handl ng sh pp ng nstall ng and brac ng Refer to and follow the latest ed tion of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety practices pr or to perform ng these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ce l ng Locat ons shown for permanent lateral restra nt of webs shall have brac ng installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from th s des g any fa lure to bu ld the truss n conformance w th ANSI/TPI 1 or for handl ng sh pp ng nstallat on & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Jo nt Deta ls unless noted otherwise Refer to draw ngs 160A Z for standard plate pos t ons A seal on th s draw ng or cover page listing this draw ng ndicates acceptance of profess onal eng neer ng responsib lity solely for the design shown The suitab l ty and use of th s des gn for any structure s the responsibility of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more nformat on see Th s job s general notes page ITW BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28445
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326002
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330912
DUR FAC	1 25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - B 19'7"8 Common)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

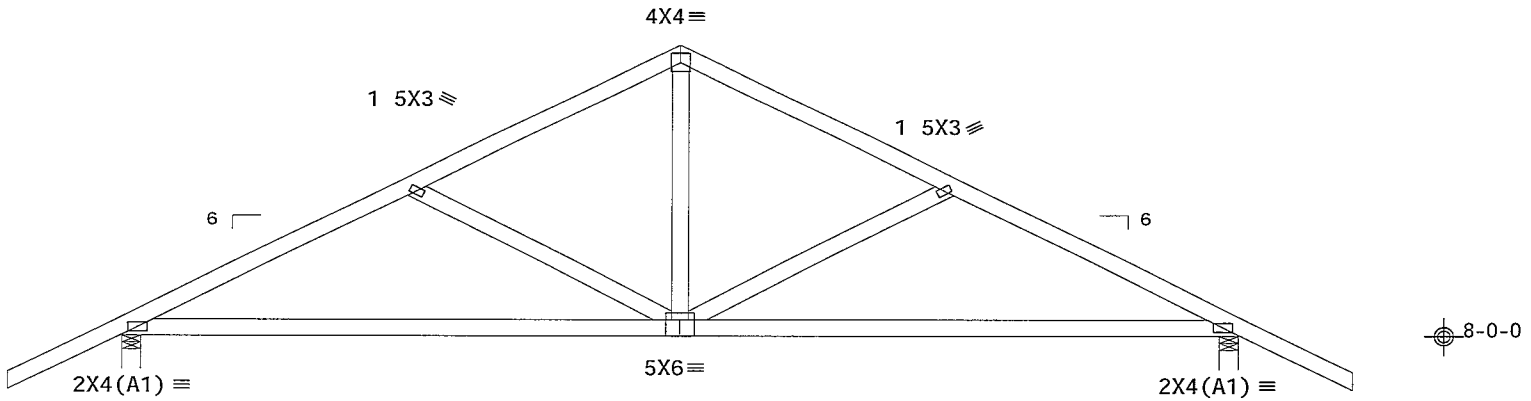
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

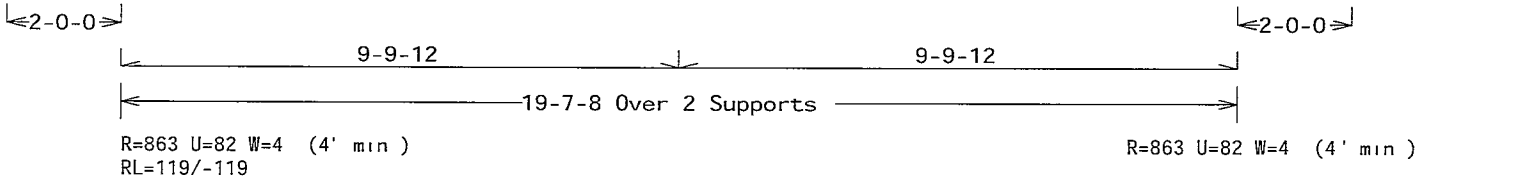
Bottom chord checked for 10 00 psf non-concurrent live load

130 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=863 U=82 W=4 (4' min)
RL=119/-119

R=863 U=82 W=4 (4' min)

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 [illegible] QTY 2 FL/-/5/-/-/R/- Scale = 3125"/Ft

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

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

Trusses requ re extreme care n fabr cat ng hand ng sh pp ng nsta l ng and brac ng Refer to and follow the latest ed tion of BCSI (Build ng Component Safety Informat on by TPI and WTCA) for safety pract ces pr or to performing these functions Installers shall prov de temporary brac ng per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ce l ing Locat ons shown for permanent lateral restraint of webs shall have brac ng nstalled per BCSI sect ons B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from th s design any failure to bu ld the truss in conformance w th ANSI/TPI 1 or for hand l ng shipp ng nstallat on and bracing of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Details unless noted otherw se Refer to drawings 160A-Z for standard plate pos t ons A seal on th s draw ng or cover page l st ng this draw ng ndicates acceptance of professional eng neer ng responsibility solely for the design shown The su tab l ty and use of th s des gn for any structure s the responsib l ty of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28446
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326003
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	339741
DUR.FAC	1 25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - B1 19 7"8 Common)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with 13B use design values approved 1/30/2013 by ALSC

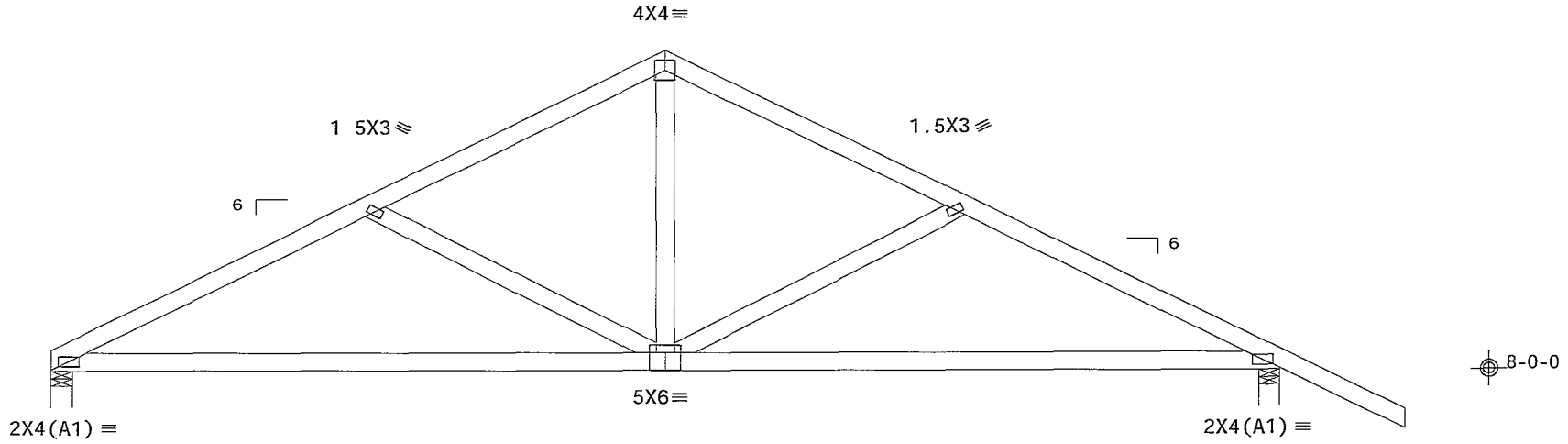
Bottom chord checked for 10 00 psf non-concurrent live load

MWFRS loads based on trusses located at least 7 50 ft from roof edge

130 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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03 04 QTY 8 FL/-/5/-/-/R/- Scale = 375"/Ft

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

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

Trusses requ re extreme care n fabr cat ng handl ng sh pp ng nstall ng and brac ng Refer to and follow the latest edit on of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ceiling Locat ons shown for permanent lateral restra nt of webs shall have brac ng nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any deviat on from th s desi any failure to bu ld the truss in conformance w th ANSI/TPI 1 or for handl ng shipp ng nstallat on bracing of trusses Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherw se Refer to draw ngs 160A-Z for standard plate pos t ons A seal on th s draw ng or cover page l st ng this draw ng nd cates acceptance of profess onal eng neering responsibility solely for the design shown The su tab lity and use of th s des gn for any structure s the responsibil ty of the Bu lding Designer per ANSI/TPI 1 Sec 2 For more nformation see Th s job s general notes page ITW-BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

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"

REF	R9114- 28447
DATE	11/22/13
DRW	HCUSR9114 13326004
HC-ENG	AP/AP
SEQN-	339608
JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - BG1 11 7' Common Girder)

Top chord 2x4 SP 2850f-2 3E
Bot chord 2x6 SP M-26
Webs 2x4 SP #3-13B W2 2x4 SP #1-13B

Lumber grades designated with "13B' use design values approved 1/30/2013 by ALSC

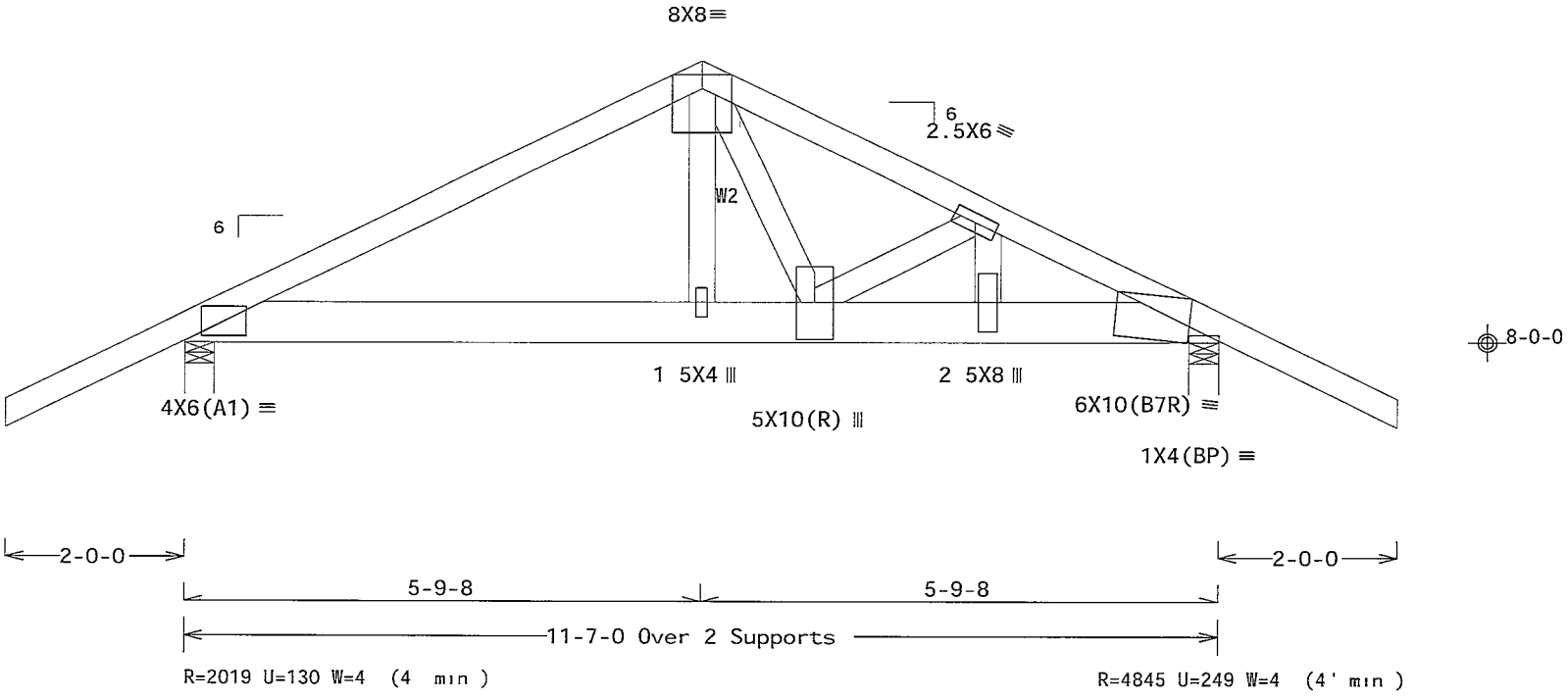
130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4 50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS

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 56 plf at -2 00 to 56 plf at 5 79
TC- From 56 plf at 5 79 to 56 plf at 13 58
BC- From 4 plf at -2 00 to 4 plf at 0 00
BC- From 20 plf at 0 00 to 20 plf at 7 06
BC- From 10 plf at 7 06 to 10 plf at 11 58
BC- From 4 plf at 11 58 to 4 plf at 13 58
BC- 2873 16 lb Conc Load at 7 06
BC- 1462 97 lb Conc Load at 9 06
BC- 1456 92 lb Conc Load at 11 06

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 QTY 1 FL/-/5/-/-/R/- Scale =.5"/Ft

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 fabr cat ng handling sh pp ng nstall ng and brac ng Refer to and follow the latest edition of BCSI (Bu lding Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ceiling Locations shown for permanent lateral restra nt of webs shall have bracing nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu lding Components Group Inc (ITWBCG) shall not be respons ble for any dev ation from this des n any fa lure to build the truss in conformance w th ANSI/TPI 1 or for handling sh pping installation bracing of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Deta ls unless noted otherw se Refer to draw ngs 160A-Z for standard plate posit ons A seal on this drawing or cover page i st ng th s drawing nd cates acceptance of professional engineering respons b l ty solely for the des gn shown The su tab l ty and use of this des gn for any structure is the responsib lity of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more informat on see This job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28448
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326035
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD	37.0 PSF	SEQN-	324379
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - BGE 19'7 8 Gable)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B
Stack Chord SC1 2x4 SP #1-13B Stack Chord SC2 2x4 SP #1-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

See DWGS A14015ENC100212 & GBLLETIN0212 for more requirements

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

130 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

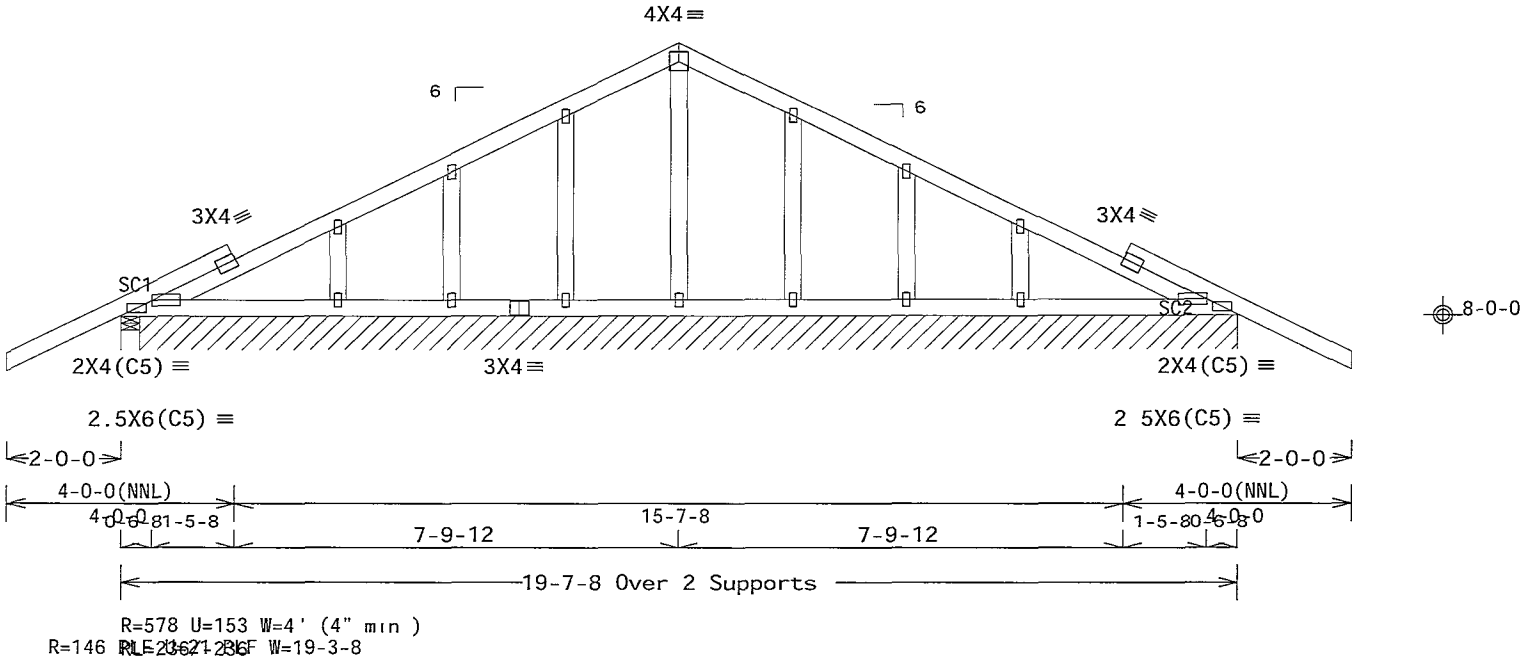
Wind loads and reactions based on MWFRS with additional C&C member design

Truss spaced at 24 0" OC designed to support 2-0-0 top chord outlookers Cladding load shall not exceed 10 00 PSF Top chord must not be cut or notched

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

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

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



Note All Plates Are 1 5X3 Except As Shown

Design Crit· FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 QTY:1 FL/-/5/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 sh pp ng nstall ng and brac ng Refer to and follow the latest edition of BCSI (Bu lding Component Safety Information by TPI and WTCA) for safety pract ces pr or to perform ng these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached r g d ce l ng Locations shown for permanent lateral restraint of webs shall have brac ng installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from this des any fa lure to build the truss in conformance w th ANSI/TPI 1 or for handl ng sh pping installation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to drawings 160A-Z for standard plate pos t ons A seal on this drawing or cover page l sting this drawing nd cates acceptance of profess onal eng neering respons b l ty solely for the des gn shown The suitabil ty and use of th s des gn for any structure is the responsibility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformation see This job s general notes page ITW-BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

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"

REF	R9114- 28449
DATE	11/22/13
DRW	HCUSR9114 13326022
HC-ENG	AP/AP
SEQN-	339601
JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - CJ1 1 Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B

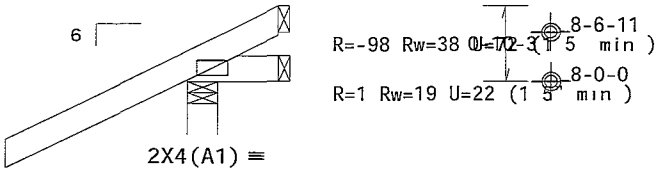
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

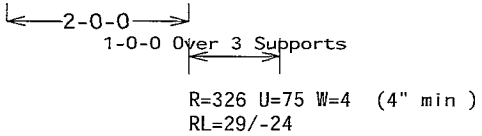
Bottom chord checked for 10 00 psf non-concurrent live load

130 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





Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03.04 [illegible] QTY:8 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 sh pp ng install ng and bracing Refer to and follow the latest ed tion of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shal provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rig d ce ling Locat ons shown for permanent lateral restraint of webs shall have brac ng installed per BCSI sections B3 B7 or B10 as applicable

ITW Build ng Components Group Inc (ITWBCG) shall not be responsible for any deviation from this desig any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handl ng shipping nstallation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on this drawing or cover page listing th s drawing ndicates acceptance of profess onal engineering respons b l ty solely for the design shown The su tabil ty and use of th s des gn for any structure is the respons bility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformation see This job s general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

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"

REF	R9114- 28450
DATE	11/22/13
DRW	HCUSR9114 13326023
HC-ENG	AP/AP
SEQN-	339603
JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - CJ3 3' End Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B

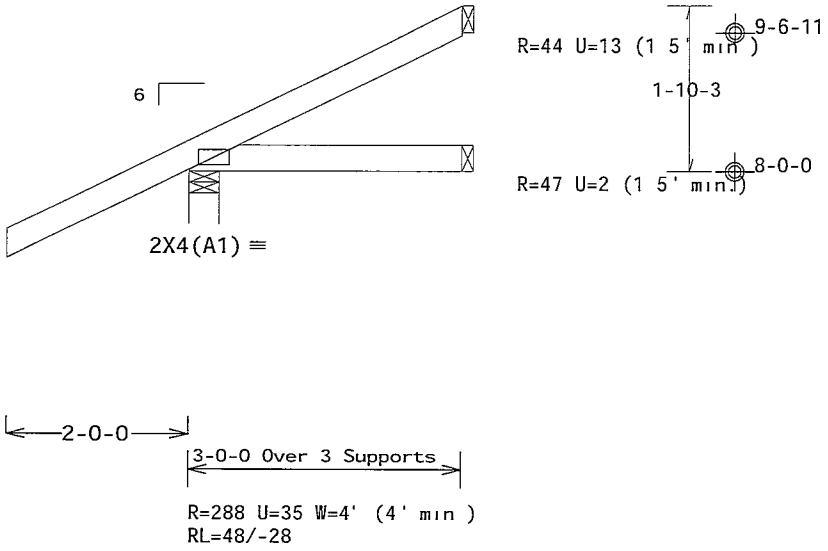
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

130 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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 12.03.04 0326 13 QTY:4 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 fabr cat ng handling sh pping install ng and brac ng Refer to and follow the latest edition of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rigid ceiling Locat ons shown for permanent lateral restraint of web shall have brac ng nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any deviation from this design any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handling shipp ng installat on & bracing of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Deta ls unless noted otherw se Refer to drawings 160A-Z for standard plate posit ons A seal on this draw ng or cover page list ng this draw ng indicates acceptance of professional eng neer ng responsibility solely for the design shown The suitab lity and use of this design for any structure s the respons b l ty of the Bu ld ing Des gner per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

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"

REF	R9114- 28451
DATE	11/22/13
DRW	HCUSR9114 13326024
HC-ENG	AP/AP
SEQN-	339703
JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - CJ5 5 Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B

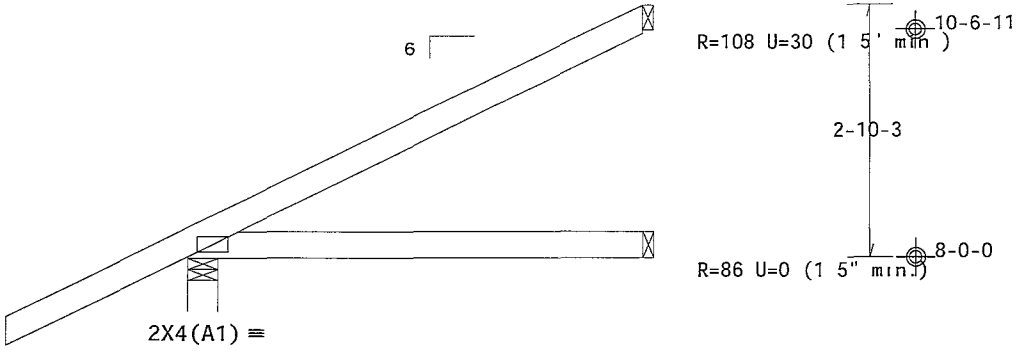
Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

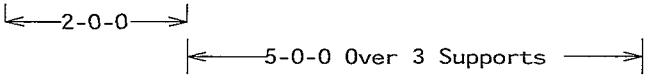
Bottom chord checked for 10 00 psf non-concurrent live load

130 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





R=343 U=32 W=4" (4" min)
RL=67/-32

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12.03.04 0326 13 | QTY:4 | FL/-/5/-/-/R/- | Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 sh pp ng nstalling and bracing Refer to an follow the latest edit on of BCSI (Building Component Safety Information by TPI and WTCA) for safety practices pr or to perform ng these functions Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ce l ng Locations shown for permanent lateral restraint of web shall have brac ng installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from this design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handl ng sh pp ng nstallation & bracing of trusses Apply plates to each face of truss and pos tion as shown above and on the Joint Deta ls unless noted otherwise Refer to draw ngs 160A-Z for standard p ate pos t ons A seal on this drawing or cover page listing this drawing ind cates acceptance of profess onal eng neer ng respons bility solely for the design shown The suitabil ty and use of th s des gn for any structure s the responsibility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformation see This job s general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20.0 PSF	REF	R9114- 28452
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326025
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT.LD.	37 0 PSF	SEQN-	339691
DUR.FAC.	1 25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - EJ3 3 End Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B

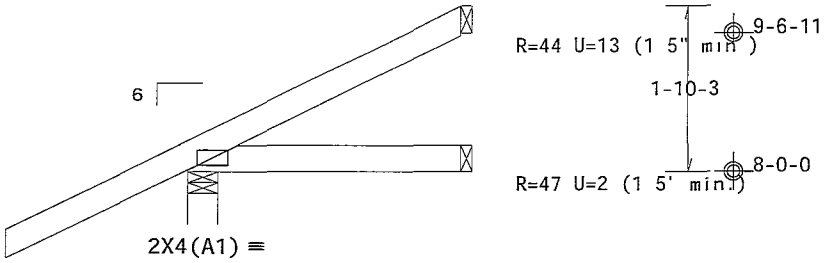
Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

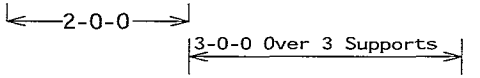
Bottom chord checked for 10 00 psf non-concurrent live load

130 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=288 U=35 W=4" (4' min)
RL=48/-28

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 0336 13 QTY:4 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 fabricat ng handling sh pp ng install ng and brac ng Refer to and follow the latest ed tion of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rigid ce l ng Locat ons shown for permanent lateral restraint of web shall have brac ng installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be respons ble for any deviat on from this design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handl ng sh pping installation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on this drawing or cover page listing th s drawing nd cates acceptance of profess ona eng neer ng respons b lity solely for the des gn shown The su tabil ty and use of th s des gn for any structure is the respons bility of the Build ng Des gner per ANSI/TPI 1 Sec 2 For more nformation see This job s general notes page ITW BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20 0 PSF	REF	R9114- 28453
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326026
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37.0 PSF	SEQN-	339703
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - EJ7 7' End Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B

Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

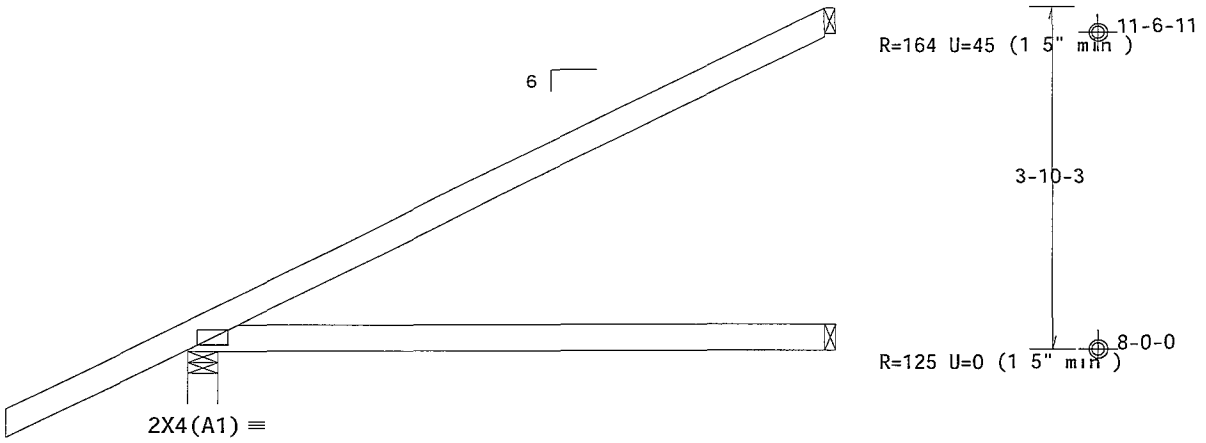
Bottom chord checked for 10 00 psf non-concurrent live load

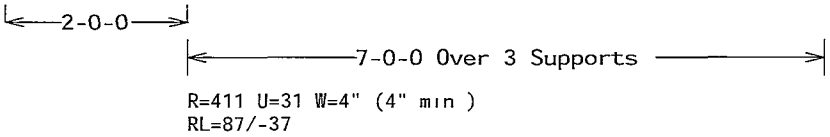
MWFRS loads based on trusses located at least 7 50 ft from roof edge

130 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=411 U=31 W=4" (4" min)
RL=87/-37

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03 04 0326 13 QTY·8 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 fabr cat ng handl ng sh pp ng install ng and brac ng Refer to and follow the latest edition of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a proper y attached r g d ceiling Locat ons shown for permanent lateral restraint of web shall have bracing nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from th s design any fa lure to bu ld the truss n conformance w th ANSI/TPI 1 or for handling shipp ng installat on & brac ng of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Data is unless noted otherw se Refer to draw ngs 160A-Z for standard plate pos t ons A seal on th draw ng or cover page l st ng th s draw ng nd cates acceptance of professional engineering respons b l ty solely for the des gn shown The su tab l ity and use of this des gn for any structure is the respons b l ty of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20 0 PSF	REF	R9114- 28454
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326027
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD.	37 0 PSF	SEQN-	339602
DUR FAC.	1 25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - EJ7A 7' End Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with 13B use design values approved 1/30/2013 by ALSC

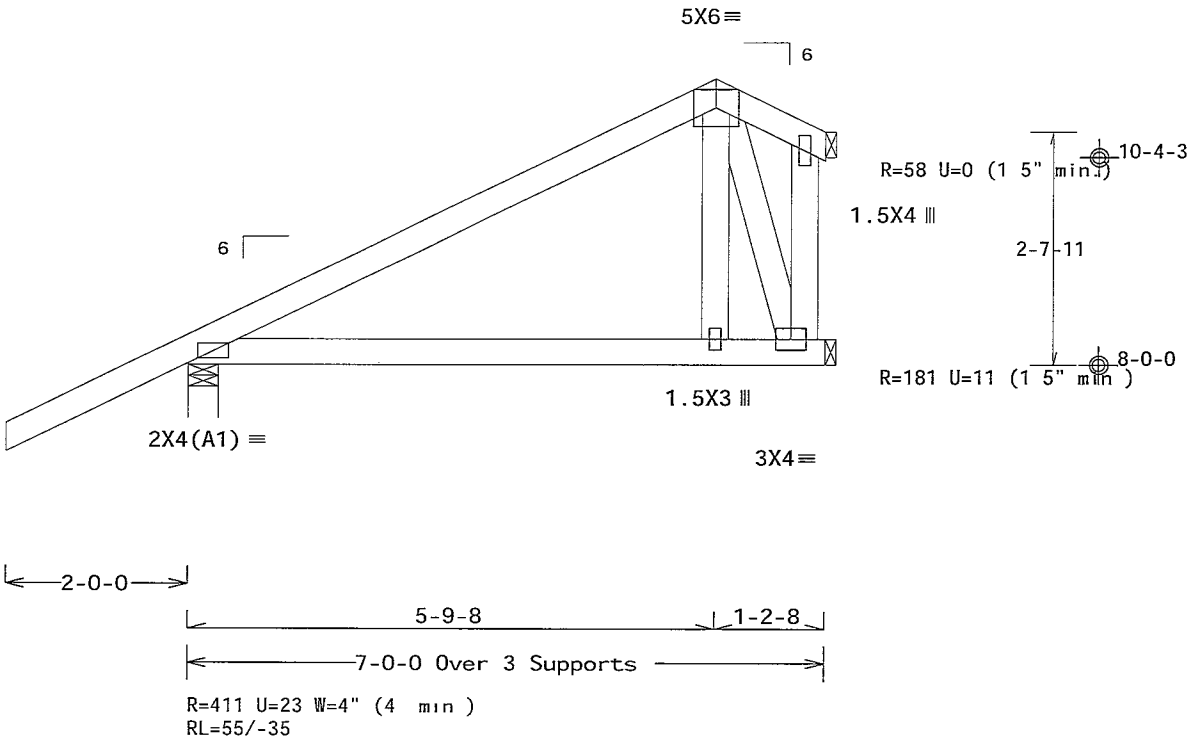
Bottom chord checked for 10 00 psf non-concurrent live load

MWFRS loads based on trusses located at least 7 50 ft from roof edge

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03 04 0326 13 QTY:1 FL/-/5/-/-/R/- Scale = 5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 n fabr cating handl ng sh pp ng nstall ng and bracing Refer to and follow the latest ed t on of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety practices pr or to perform ng these funct ons Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rig d ce l ng Locat ons shown for permanent lateral restraint of web shall have brac ng installed per BCSI sect ons B3 B7 or B10 as appl cable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any dev at on from this design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handl ng sh pping nstallation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Jo nt Details unless noted otherw se Refer to drawings 160A-Z for standard plate pos t ons A seal on this drawing or cover page listing this drawing nd cates acceptance of profess onal eng neer ng responsibility solely for the design shown The suitabil ty and use of th s design for any structure s the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more nformation see Th s job s general notes page ITW-BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20 0 PSF	REF	R9114- 28455
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326005
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	339857
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - EJ7B 7 End Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

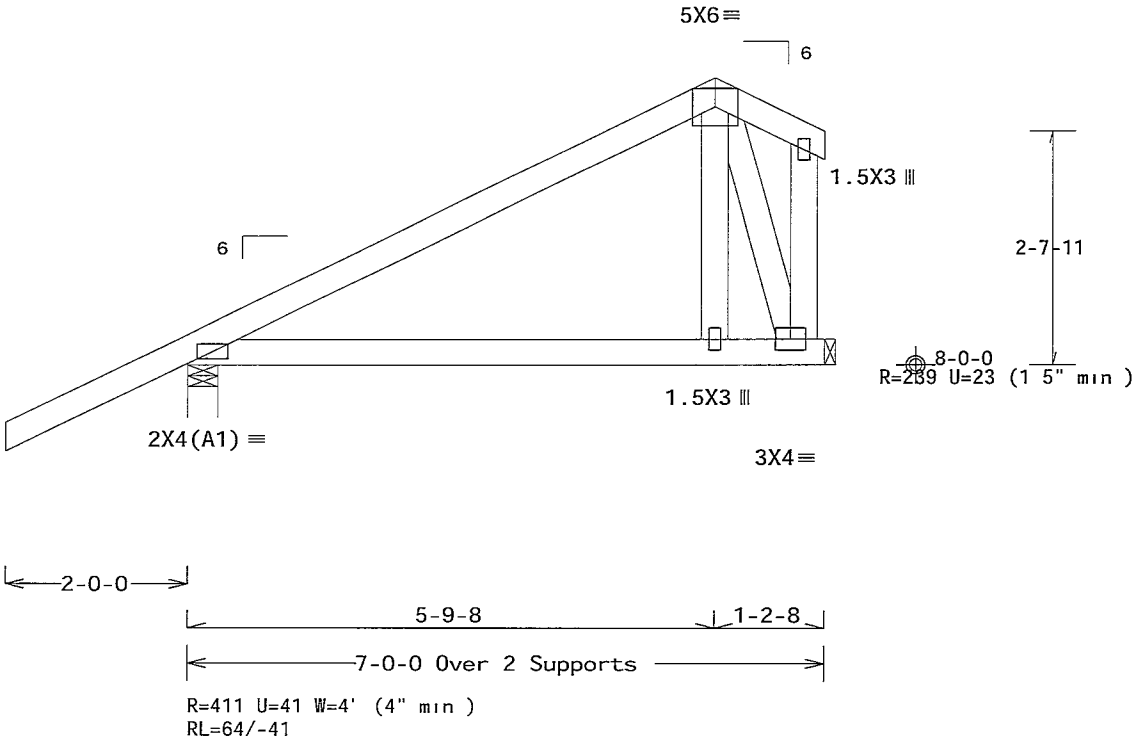
Bottom chord checked for 10 00 psf non-concurrent live load

MWFRS loads based on trusses located at least 7 50 ft from roof edge

130 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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 [illegible]13 QTY 2 FL/-/5/-/-/R/- Scale = 5"/Ft

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

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

Trussos requ re extreme care n fabr cat ng hand ng sh pp ng nstall ng and bracing Refer to and follow the latest edit on of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety pract ces pr or to perform ng these funct ons Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached r g d ce l ng Locat ons shown for permanent lateral restraint of webs shall have brac ng nstalled per BCSI sect ons B3 B7 or B10 as appl cable

ITW Build ng Components Group Inc (ITWBCG) shall not be responsible for any deviat on from th s design any fa lure to bu ld the truss in conformance with ANSI/TPI 1 or for handl ng shipping nstallation bracing of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Dota ls unless noted otherw se Refer to draw ngs 160A-Z for standard plate pos t ons A seal on th draw ng or cover page l st ng this draw ng ind cates acceptance of professional eng neering responsib l ty solely for the des gn shown The su tab l ity and use of this design for any structure is the responsib l ty of the Bu ld ing Des gner per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20.0 PSF	REF	R9114- 28456
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326006
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD.	37.0 PSF	SEQN-	339694
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - EJ7B 7 End Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

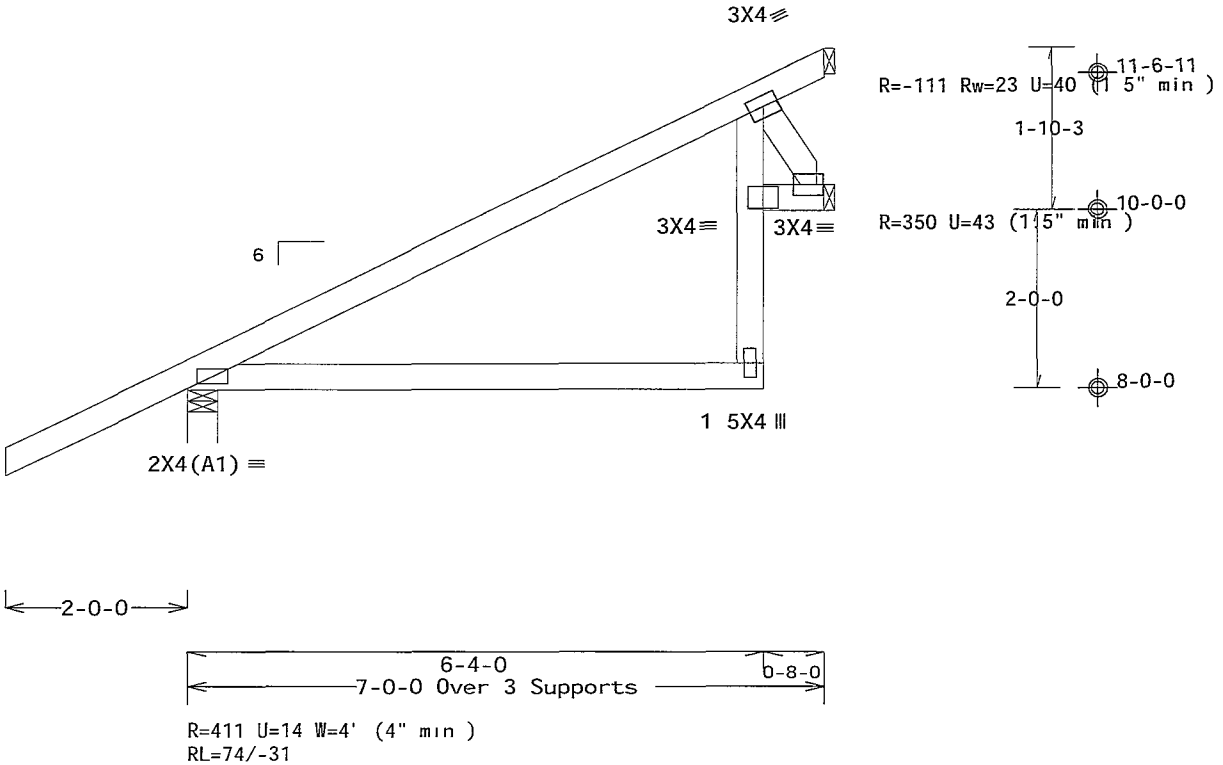
Bottom chord checked for 10 00 psf non-concurrent live load

MWFRS loads based on trusses located at least 7 50 ft from roof edge

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04.0386.13 QTY 9 FL/-/5/-/-/R/- Scale = 5"/Ft.

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

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

Trusses requ re extreme care in fabr cat ng handl ng shipping install ng and brac ng Refer to and follow the latest edition of BCSI (Build ng Component Safety Informat on by TPI and WTCA) for safety practices prior to performing these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rig d ceiling Locations shown for permanent lateral restra nt of webs shall have bracing nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from this design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handling sh pping installation brac ng of trusses Apply plates to each face of truss and posit on as shown above and on the Jo nt Data is unless noted otherwise Refer to draw ngs 160A-Z for standard plate positions A seal on this draw ng or cover page l st ng this draw ng nd cates acceptance of professional eng neering respons b l ty solely for the des gn shown The su tab l ity and use of this design for any structure is the respons b l ty of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28457
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326007
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37.0 PSF	SEQN-	330594
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - EJ7C 7 End Jack)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with '13B' use design values approved 1/30/2013 by ALSC

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

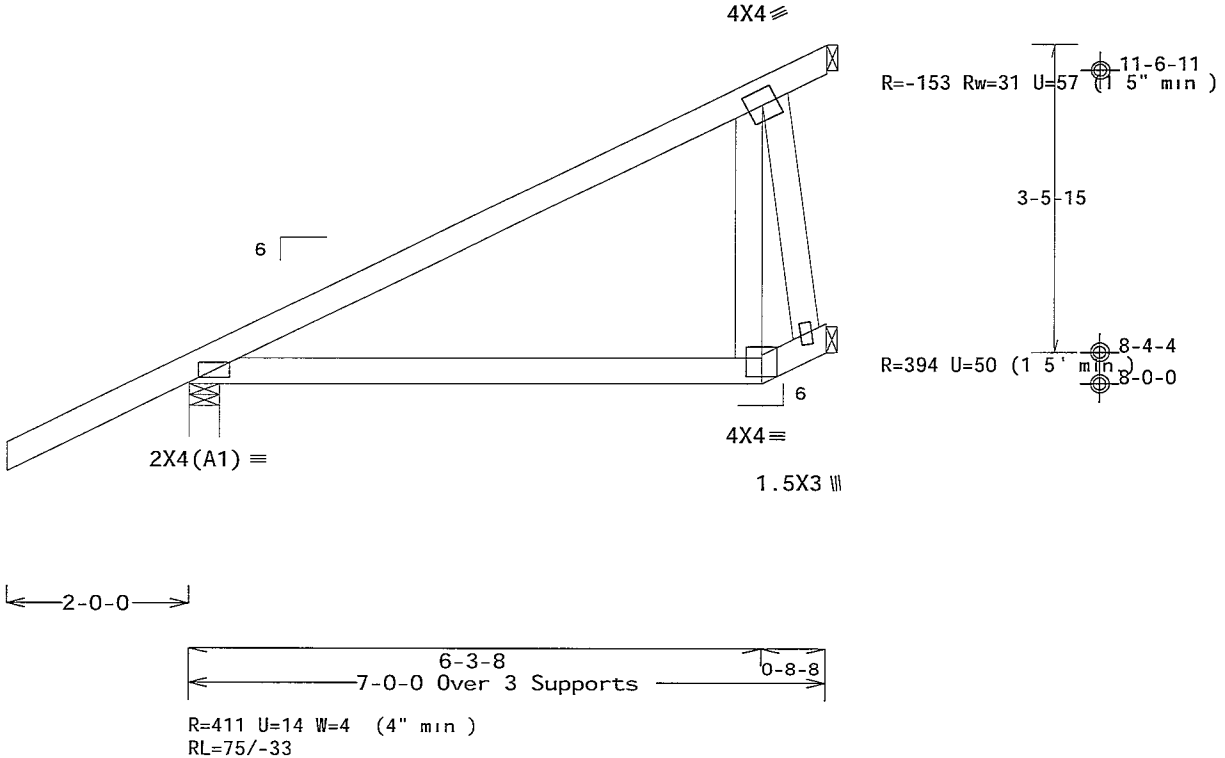
Shim all supports to solid bearing

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

MWFRS loads based on trusses located at least 7 50 ft from roof edge



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03.04 0326 13 QTY:6 FL/-/5/-/-/R/- Scale =.5"/Ft

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

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

Trusses requ re extreme care in fabr cat ng handl ng shipping nstalling and brac ng Refer to and follow the latest edition of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety practices prior to performing these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restra nt of web shall have bracing nstalled per BCSI sections B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from this design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handl ng sh pping nstallation brac ng of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Data is unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on this drawing or cover page listing th s drawing nd cates acceptance of profess onal eng neer ng respons b l ty solely for the des gn shown The suitabil ty and use of this des gn for any structure is the respons bility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformation see This job s general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20 0 PSF	REF	R9114- 28458
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326008
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD.	37.0 PSF	SEQN-	330432
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - H11 38 9'8 Stepdown Hip)

Top chord 2x4 SP #1-13B T1 2x4 SP 2850f-2 3E
Bot chord 2x4 SP #1-13B B2 2x4 SP M-30
Webs 2x4 SP #3-13B
W2 W3, W4, W11, W12 2x4 SP #2-13B
Lt Slider 2x4 SP #3-13B BLOCK LENGTH = 1 500'

Lumber grades designated with "13B" use design values approved 1/30/2013 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

These support conditions used at bearings indicated
(H1) = HUS26 w/ (1)2x6 SP M-26 supporting member
(14) 0 148 x3" nails into supporting member,
(4) 0 148 x3 nails into supported member

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

Calculated vertical deflection is 0 46" due to live load and 0 60' due to dead load at X = 18-2-8

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

Calculated horizontal deflection is 0 28" due to live load and 0 37" due to dead load

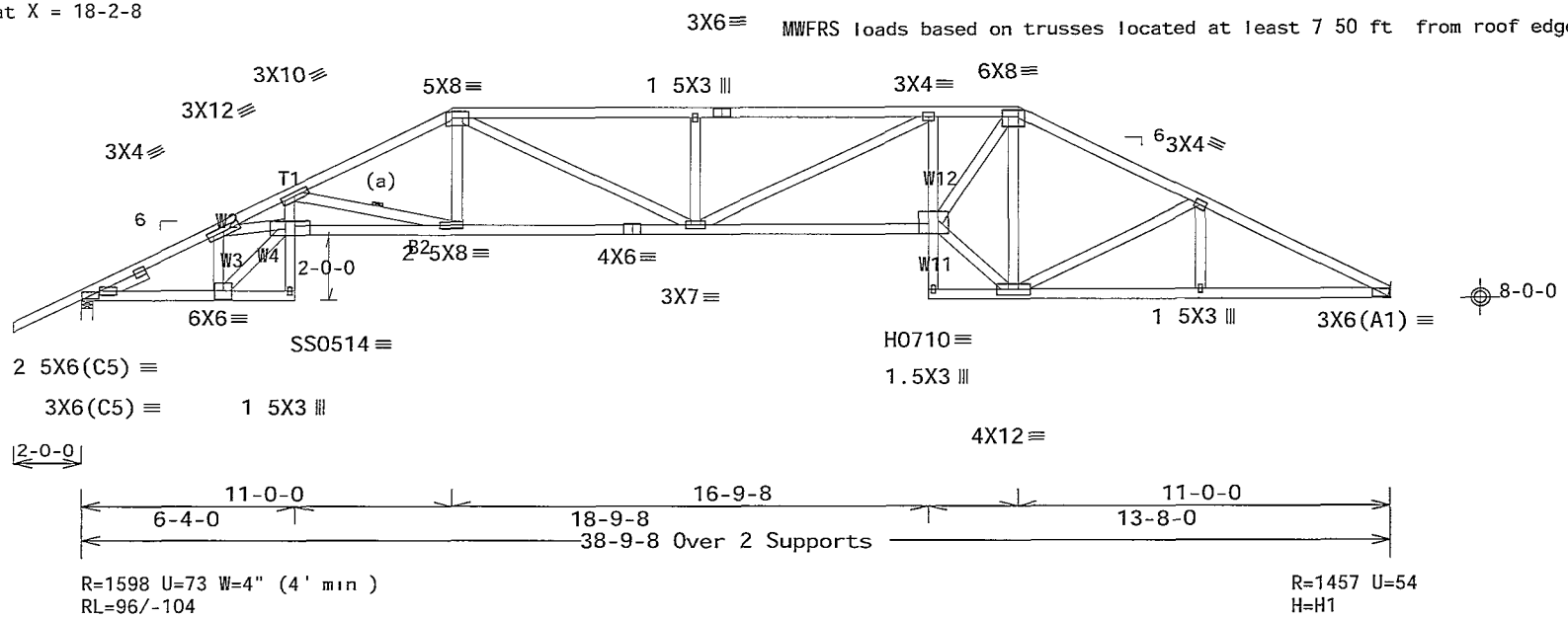
Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage

(a) Continuous lateral restraint equally spaced on member

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

MWFRS loads based on trusses located at least 7 50 ft from roof edge



R=1598 U=73 W=4" (4' min)
RL=96/-104

R=1457 U=54
H=H1

PLT TYP 20 Gauge HS,18 Gauge HS, Wave Design Crit FBC2010Res/TPI-2007(STD) FT/RT=10%(0%)/0(0) 12 03.04 QTY.1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

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

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

Trusses requ re extreme care in fabricat ng handling sh pp ng insta ng and brac ng Refer to and follow the latest ed tion of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ceiling Locat ons shown for permanent lateral restraint of webs shall have bracing nstalled per BCSI sect ons B3 B7 or B10 as appl cable

ITW Build ng Components Group Inc (ITWBCG) shall not be respons ble for any deviation from th s desi any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handling shipp ng installat on brac ng of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Deta ls unless noted otherw se Refer to drawings 160A-Z for standard plate posit ons A seal on th s draw ng or cover page l st ng th s draw ng ind cates acceptance of profess onal eng neer ng responsibil ty solely for the design shown The su tab l ity and use of this des gn for any structure s the responsibil ty of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW-BCG www itwbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20.0 PSF	REF	R9114- 28459
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326009
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330718
DUR.FAC	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H11A 26'4" Stepdown Hip)

Top chord 2x6 SP M-26 T2 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with '13B use design values approved 1/30/2013 by ALSC

Calculated horizontal deflection is 0 11" due to live load and 0 14 due to dead load

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

(1) 2x6x8-10-9 SP M-26 scab at left end Attach scab to face of chord with 0 131 x3', min nails @ 8" OC, plus additional nail clusters at BRG (4), heel (6), 1st panel point (2)

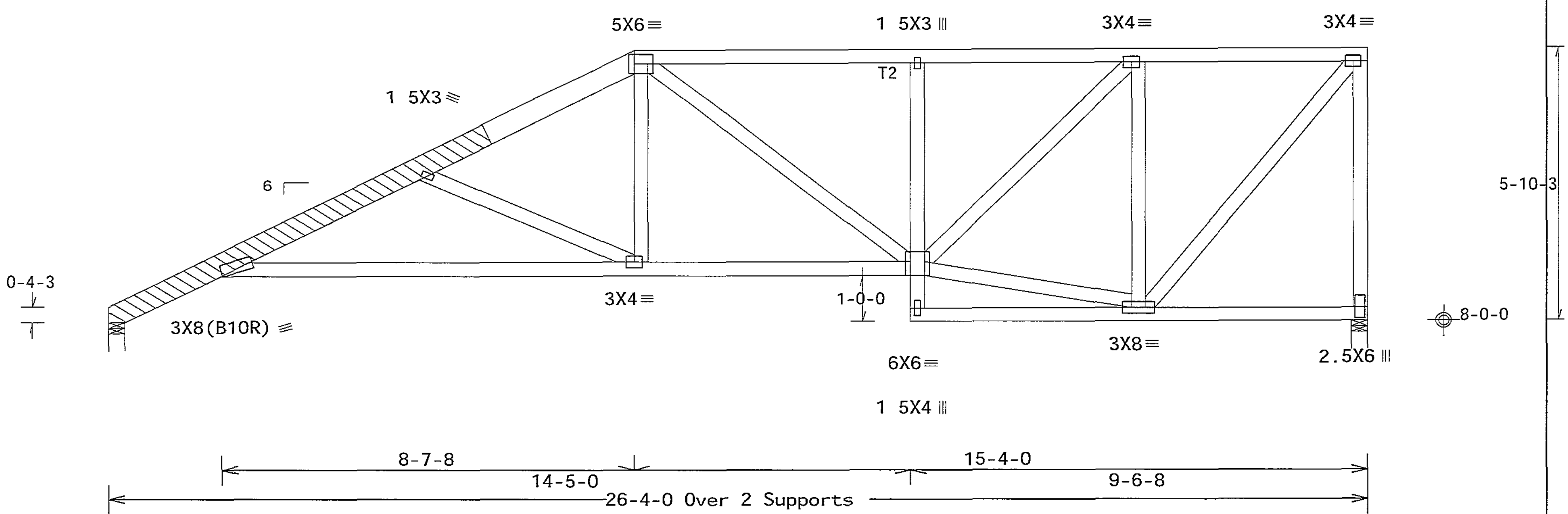
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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 7 50 ft from roof edge



R=1009 U=24 W=4" (4" min)
RL=95/-25

R=983 U=52 W=4" (4" min)

PLT TYP Wave

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

12.03.04

QTY.1 FL/-/5/-/-/R/-

Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 and follow the latest edition of BCSI (Building Component Safety Information by TPI and WTCA) for safety practices prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restraint of 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 this design any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation & bracing of trusses Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise Refer to drawings 160A-Z for standard plate positions A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown The suitability and use of this 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 twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER

11/22/2013

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"

REF	R9114- 28460
DATE	11/22/13
DRW	HCUSR9114 13326010
HC-ENG	AP/AP
SEQN-	330487
JREF-	1V1J487_Z01

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H13 38 9 8 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

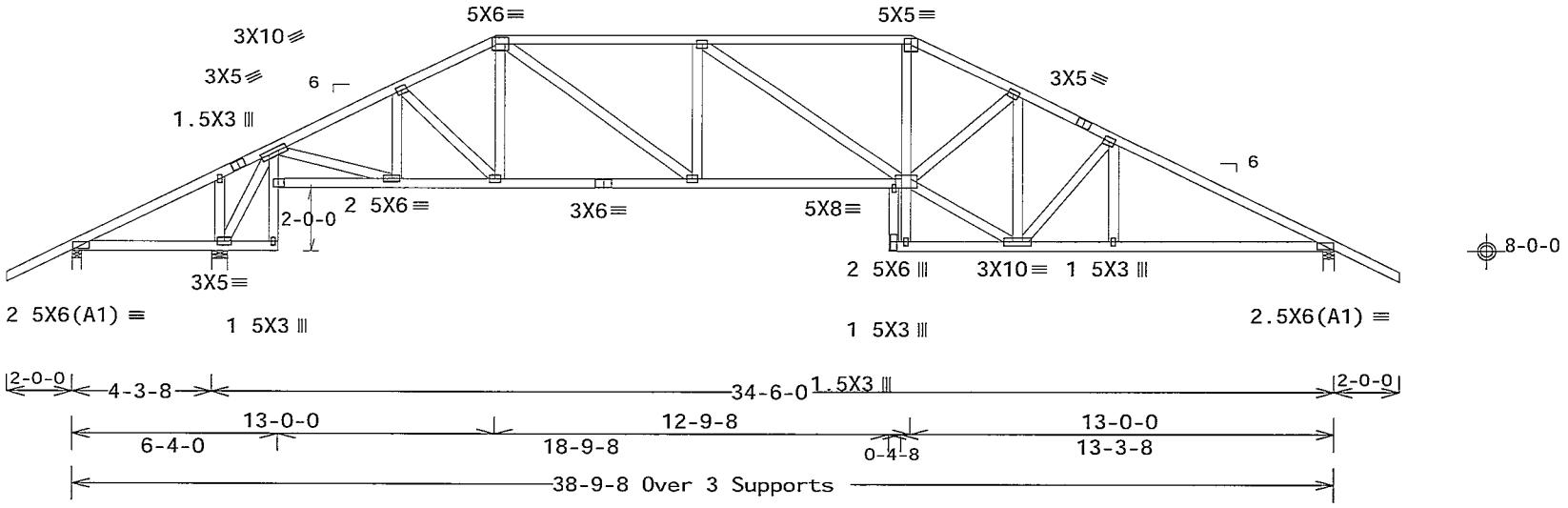
MWFRS loads based on trusses located at least 15 00 ft from roof edge

Negative reaction(s) of -303# 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

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



R=128/-304 U=133 W=3 5" (3 5" min)
RL=131/-131 R=1921 U=0 W=5 657" (5 657" min)

R=1362 U=0 W=4" (4" min)

Note All Plates Are 3X4 Except As Shown

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 [illegible] QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft

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

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

Trusses requ re extreme care n fabr cat ng handl ng shipp ng nstalling and bracing Refer to and follow the latest edition of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety practices prior to perform ng these funct ons Installers shall prov de temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ce l ng Locations shown for permanent lateral restra nt of webs shall have bracing nstalled per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from this des g any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handl ng sh pping nstallation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard p ate pos t ons A seal on th s drawing or cover page l sting th s drawing nd cates acceptance of profess onal eng neer ng respons bility solely for the des gn shown The suitab l ty and use of th s des gn for any structure s the responsibility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformat on see This job s general notes page ITW-BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28461
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326011
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330663
DUR FAC	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H13A 26'4" Stepdown Hip)

Top chord 2x6 SP M-26 T2 2x6 SP #2-13B
T3 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Calculated horizontal deflection is 0 11' due to live load and 0 15 due to dead load

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

(1) 2x6x10-1-15 SP M-26 scab at left end Attach scab to face of chord with 0 131"x3 , min nails @ 8" OC, plus additional nail clusters at BRG (4), heel (5), 1st panel point (2)

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

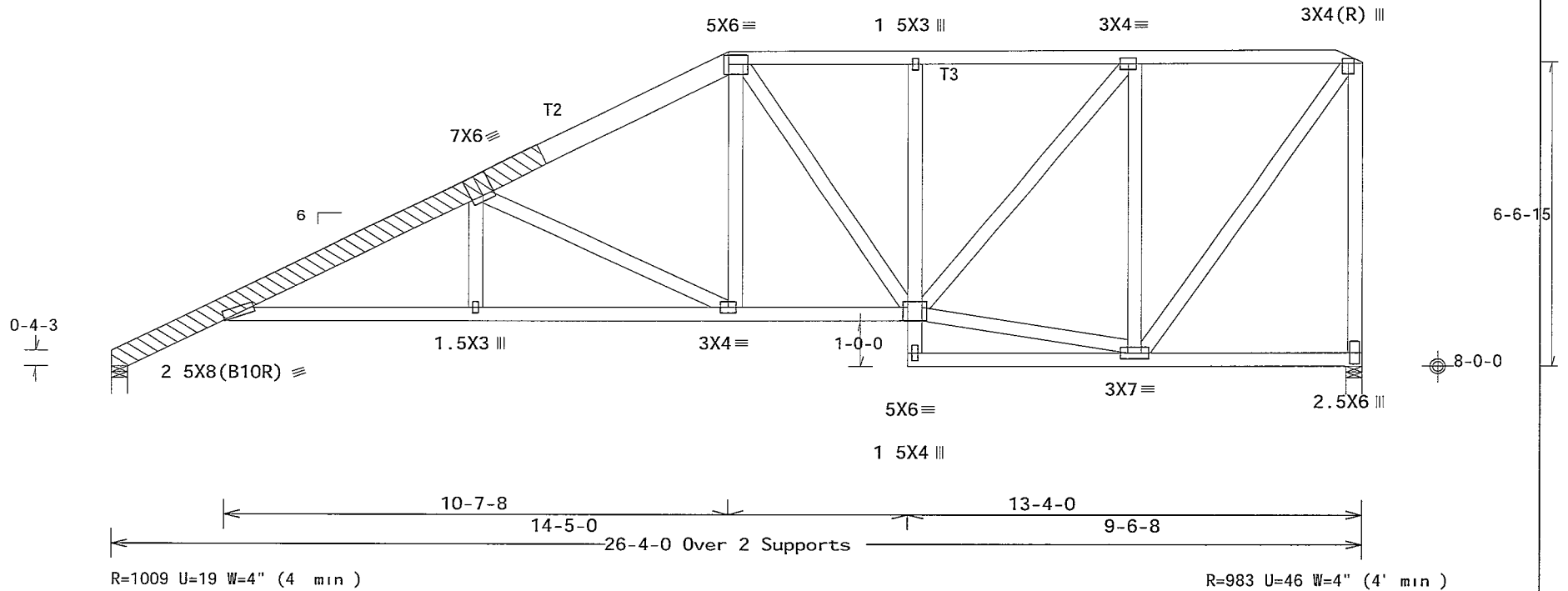
Wind loads and reactions based on MWFRS with additional C&C member design

Right end vertical not exposed to wind pressure

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

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)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 12.03 04 0836 13 QTY 1 FL/-/5/-/-/R/- Scale =.3125"/Ft.

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

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

Trusses requ re extreme care n fabr cat ng handl ng sh pp ng nstalling and bracing Refer to and fol ow the latest ed t on of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety practices pr or to perform ng these funct ons Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ce l ng Locat ons shown for permanent lateral restra nt of webs shall have brac ng installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be respons ble for any deviat on from th s design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handl ng sh pp ng nstallation bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to drawings 160A-Z for standard plate pos t ons A seal on th draw ng or cover page list ng this draw ng ndicates acceptance of profess onal eng neer ng responsibil ty solely for the design shown The su tab l ty and use of th s design for any structure s the responsibil ty of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more nformat on see Th s job s general notes page ITW BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20 0 PSF	REF	R9114- 28462
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326012
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330493
DUR FAC.	1 25		
SPACING	24 0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H15 38'9"8 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member

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

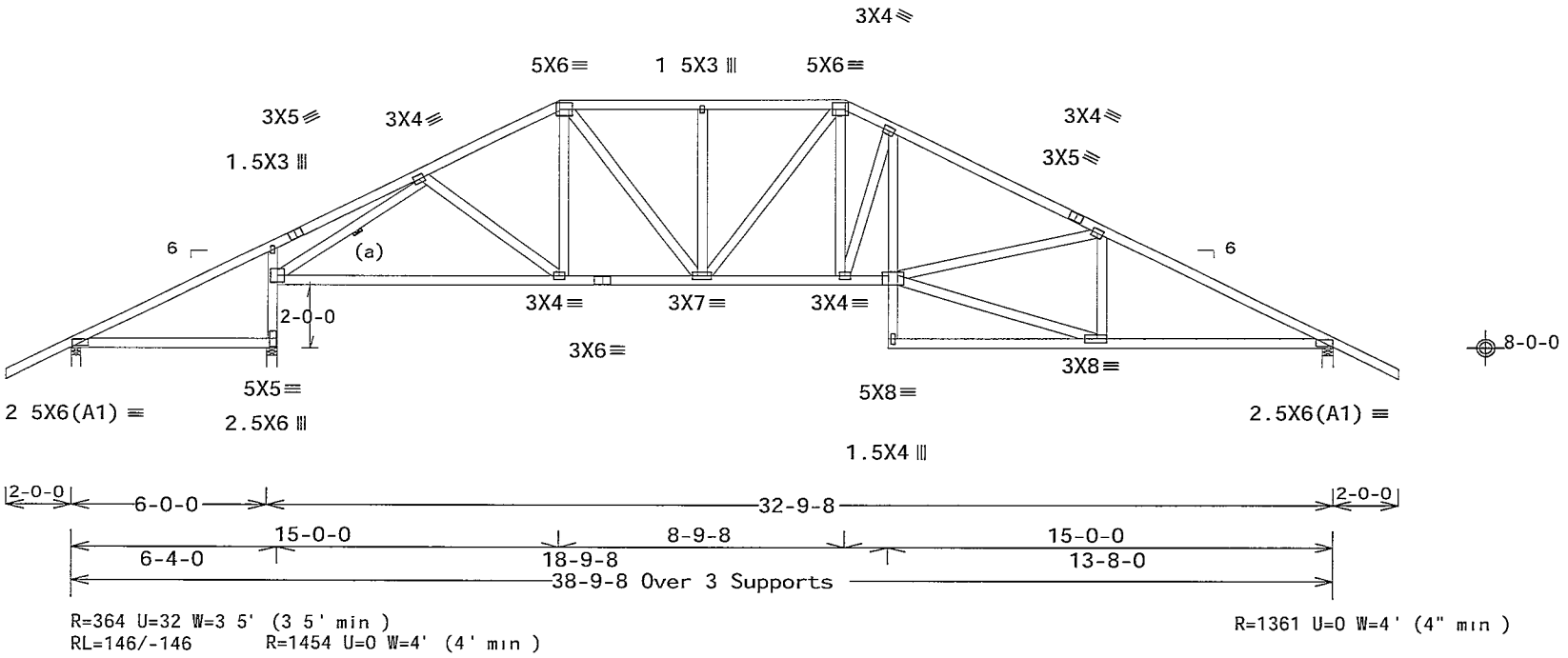
MWFRS loads based on trusses located at least 15 00 ft from roof edge

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 0326 13 QTY 1 FL/-/5/-/-/R/- Scale = 1875"/Ft.

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

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

Trusses requ re extreme care in fabr cat ng handl ng shipping nstall ng and brac ng Refer to an follow the latest ed t on of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety practices prior to perform ng these funct ons installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rigid ce l ng Locations shown for permanent lateral restra nt of web shall have bracing nstalled per BCSI sect ons B3 B7 or B10 as applicable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from th s design any fa lure to bu ld the truss n conformance w th ANSI/TPI 1 or for handl ng sh pp ng nstallation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos t ons A seal on th drawing or cover page l sting th s drawing nd cates acceptance of profess onal engineer ng respons b l ty solely for the des gn shown The suitabil ty and use of th s des gn for any structure s the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more nformat on see This job s general notes page ITW BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20 0 PSF	REF	R9114- 28463
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326013
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD	37.0 PSF	SEQN-	330427
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H15A 26 4 Stepdown Hip)

Top chord 2x4 SP #1-13B T1 2x6 SP M-26
T2 2x6 SP #2-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with 13B use design values approved 1/30/2013 by ALSC

Calculated horizontal deflection is 0 12 due to live load and 0 16 due to dead load

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

(1) 2x6x11-3-6 SP M-26 scab at left end Attach scab to face of chord with 0 131 x3 min nails @ 8 OC plus additional nail clusters at BRG (4) heel (5) 1st panel point (2)

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

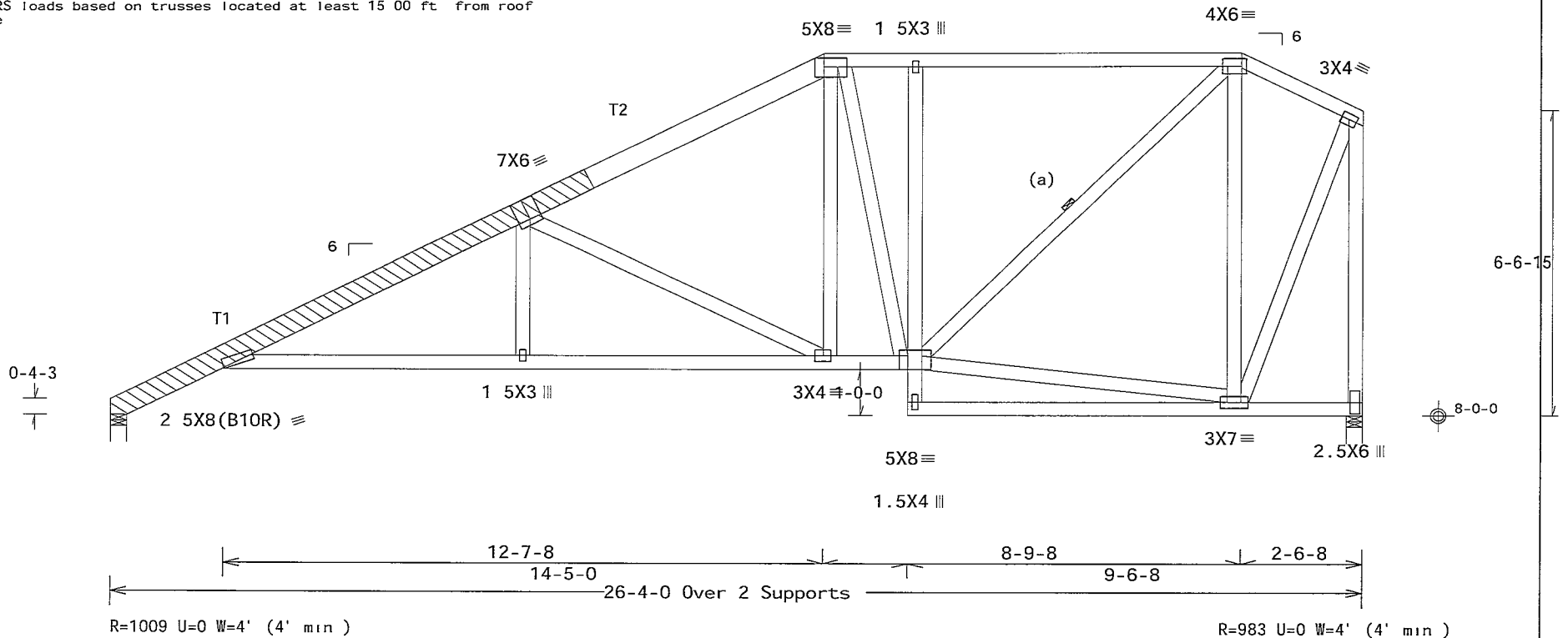
Wind loads and reactions based on MWFRS with additional C&C member design

Right end vertical not exposed to wind pressure

(a) Continuous lateral restraint 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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 [illegible]43 QTY 1 FL/-/5/-/-/R/- Scale = 3125"/Ft

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

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

Trusses requ re extreme care n fabr cat ng handl ng sh pp ng nstall ng and bracing Refer to and follow the latest ed t on of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety practices pr or to perform ng these funct ons Installers shall prov de temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord sha l have a properly attached r g d ce l ng Locat ons shown for permanent lateral restraint of webs shall have brac ng installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from th s des gn any fa lure to build the truss n conformance with ANSI/TPI 1 or for handl ng sh pp ng nstallat on bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos t ons A seal on th s drawing or cover page listing this drawing ind cates acceptance of profess onal eng neer ng respons b l ty solely for the design shown The suitabil ty and use of th s des gn for any structure s the responsibility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformat on see This job s general notes page ITW BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28464
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326014
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330501
DUR FAC.	1 25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H17 38 9 8 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with 13B' use design values approved 1/30/2013 by ALSC

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

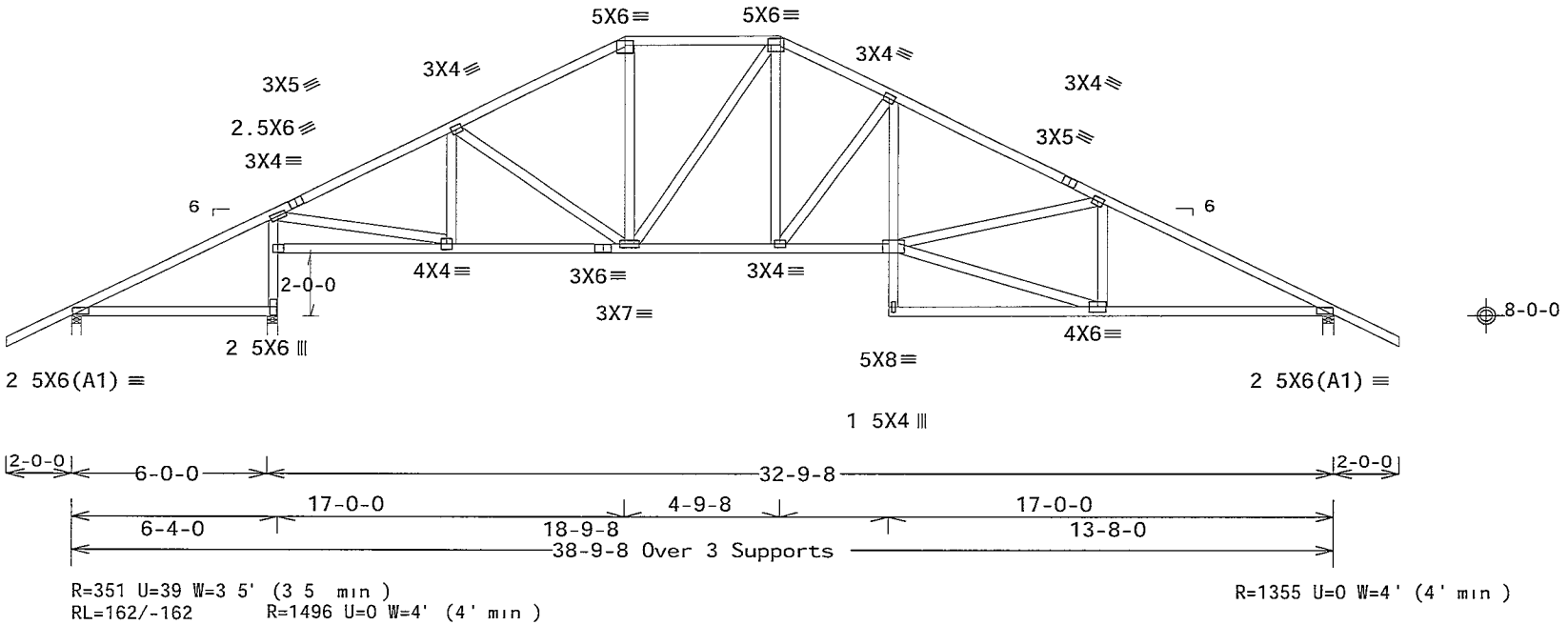
MWFRS loads based on trusses located at least 15 00 ft from roof edge

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

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=351 U=39 W=3 5' (3 5 min)
RL=162/-162 R=1496 U=0 W=4' (4' min)

R=1355 U=0 W=4' (4' min)

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 03 13 QTY 1 FL/-/5/-/-/R/- Scale = 1875"/Ft

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

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

Trusses requ re extreme care n fabr cat ng handl ng shipp ng nstall ng and brac ng Refer to and follow the latest edition of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety practices pr or to perform ng these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ce l ng Locations shown for permanent lateral restra nt of webs shall have bracing installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be respons ble for any dev ation from this design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handl ng sh pping nstallation bracing of trusses Apply plates to each face of truss and position as shown above and on the Joint Deta ls unless noted otherw se Refer to draw ngs 160A-Z for standard plate posit ons A seal on th s draw ng or cover page list ng this draw ng indicates acceptance of profess onal eng neering responsibility solely for the design shown The suitab lity and use of th s des gn for any structure s the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more nformat on see This job s general notes page ITW-BCG www itwbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28465
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326015
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37.0 PSF	SEQN-	330415
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H17A 26 4 Stepdown Hip)

Top chord 2x4 SP #1-13B T1 2x6 SP M-26
T2 2x6 SP #2-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with 13B use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint 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

(2) 2x6x12-3-6 SP M-26 scabs at left end Attach one scab to each outer face of chord with 0 131 x3 min nails @ 8 OC Plus additional nail clusters at BRG (3) heel (3) 1st panel point (0)

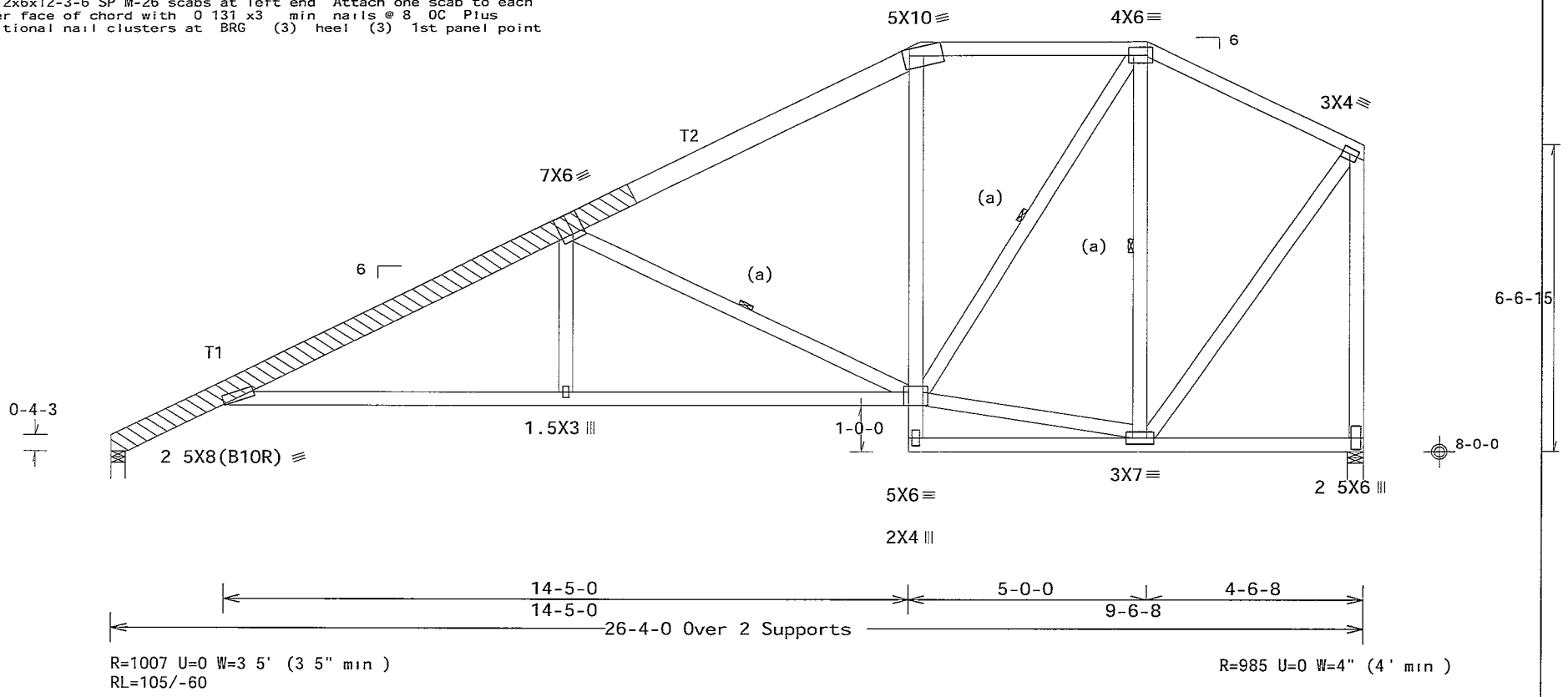
120 mph wind 15 00 ft mean hgt, ASCE 7-10 CLOSED bldg not located within 9 00 ft from roof edge RISK CAT II EXP B wind TC DL=3 5 psf wind BC DL=5 0 psf GCpi(+/-)=0 18

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

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03.04 0030.13 QTY:1 FL/-/5/-/-/R/- Scale =.3125"/Ft

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

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

Trusses requ re extreme care n fabr cating handl ng sh pp ng nstall ng and bracing Refer to and follow the latest ed tion of BCSI (Bu lding Component Safety Information by TPI and WTCA) for safety pract ces pr or to perform ng these funct ons Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ce l ng Locat ons shown for permanent lateral restra nt of webs shall have brac ng installed per BCSI sect ons B3 B7 or B10 as appl cable

ITW Build ng Components Group Inc (ITWBCG) shall not be responsible for any deviat on from th s design any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handl ng sh pp ng nstallat on bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to drawings 160A-Z for standard plate pos t ons A seal on this draw ng or cover page list ng this drawing indicates acceptance of profess onal eng neer ng responsibility solely for the design shown The suitab lity and use of th s design for any structure s the responsibility of the Building Des gner per ANSI/TPI 1 Sec 2 For more nformat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28466
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326016
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT.LD	37.0 PSF	SEQN-	330510
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - H19 38 9 8 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

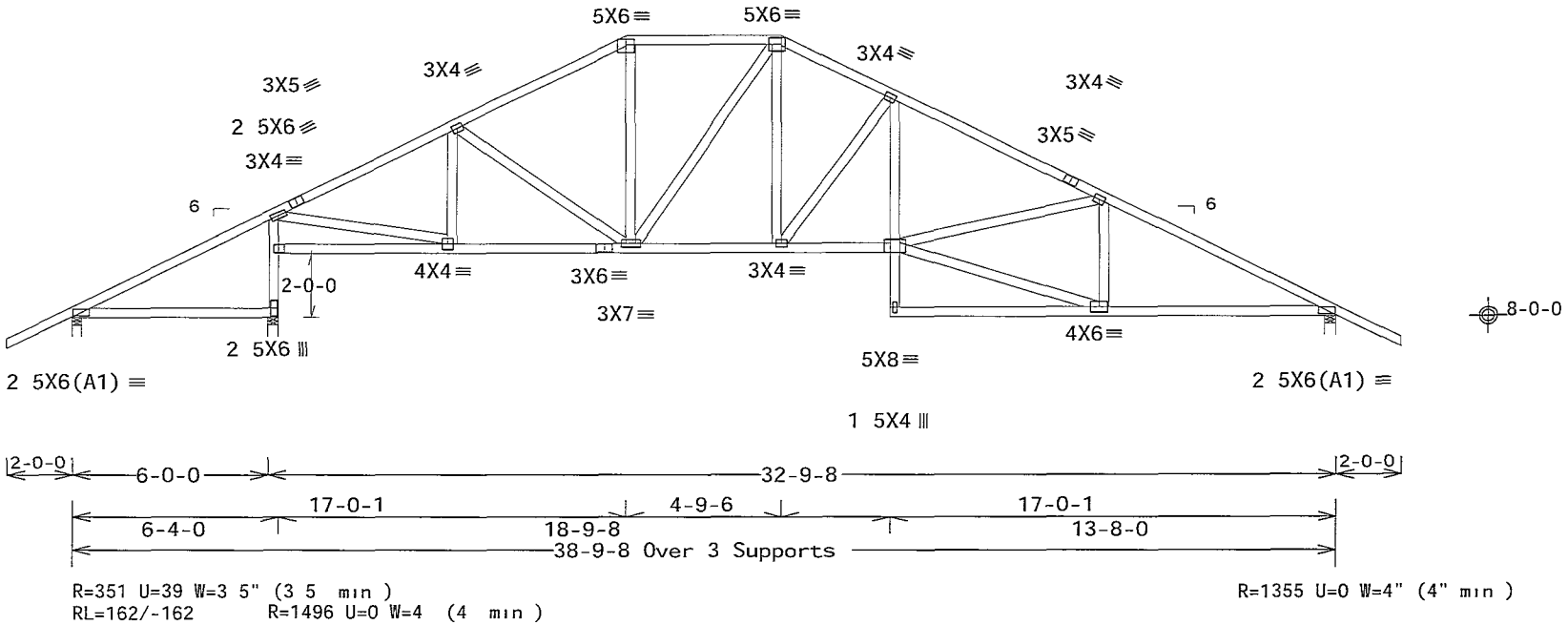
MWFRS loads based on trusses located at least 15 00 ft from roof edge

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

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=351 U=39 W=3 5" (3 5 min)
RL=162/-162 R=1496 U=0 W=4 (4 min)

R=1355 U=0 W=4" (4" min)

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03.04 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

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

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

Trusses requ re extreme care n fabr cat ng handl ng shipp ng nstalling and brac ng Refer to and follow the latest edition of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall prov de temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restra nt of webs shall have bracing installed per BCSI sections B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be respons ble for any deviation from th s desi any failure to build the truss in conformance with ANSI/TPI 1 or for handl ng shipping nstallat on bracing of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Deta ls unless noted otherw se Refer to drawings 160A-Z for standard plate posit ons A seal on this draw ng or cover page list ng this draw ng ind cates acceptance of professional eng neering 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 informat on see Th s job s general notes page ITW-BCG www itwbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20.0 PSF	REF	R9114- 28467
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326017
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT.LD.	37.0 PSF	SEQN-	330908
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H19A 26'4" Stepdown Hip)

Top chord 2x6 SP M-26 T2 2x6 SP #2-13B
T3 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

(2) 2x6x12-3-6 SP M-26 scabs at left end Attach one scab to each outer face of chord with 0 131'x3", min nails @ 8" OC, Plus additional nail clusters at BRG (3), heel (3), 1st panel point (0)

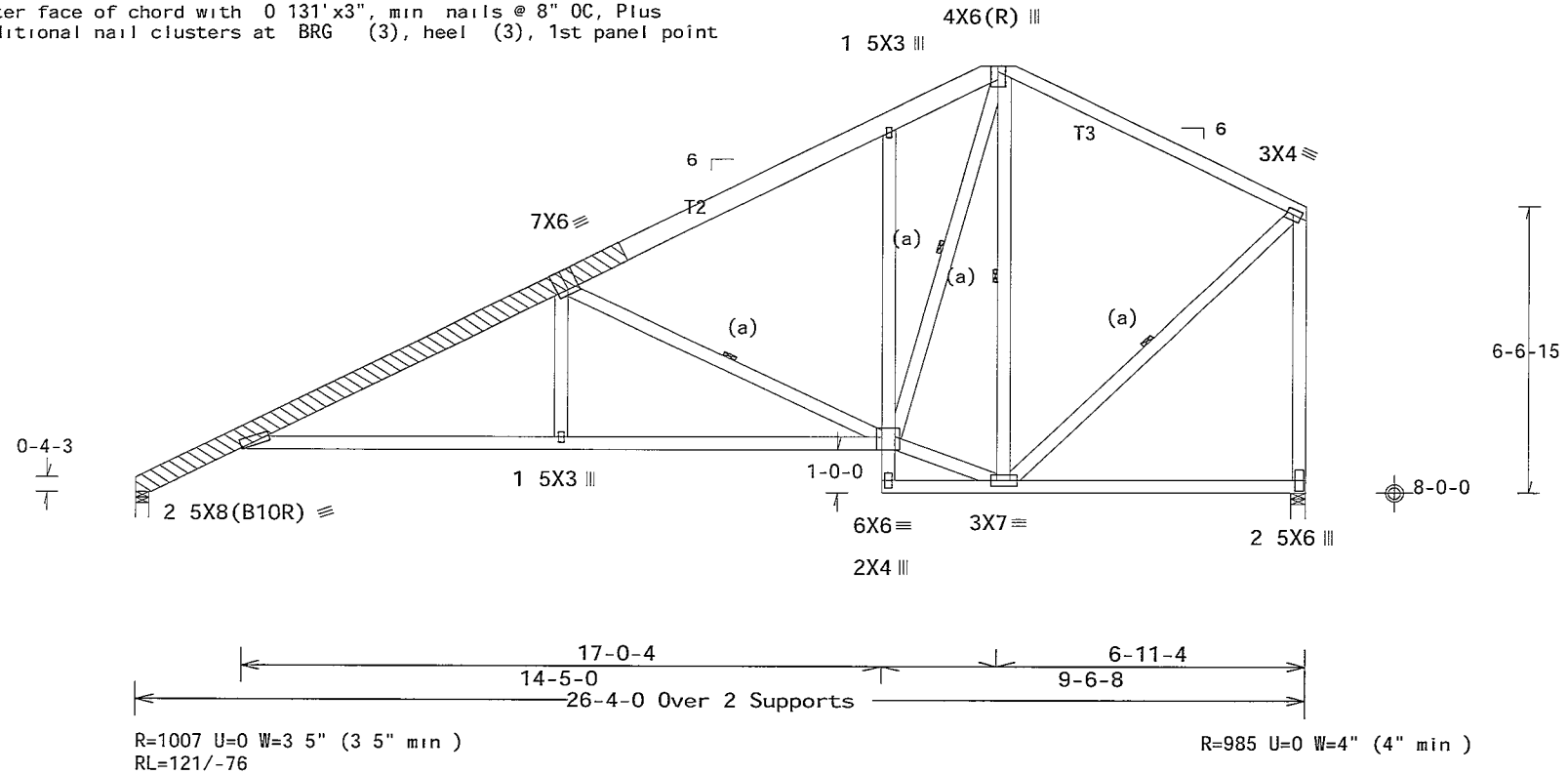
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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

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 15 00 ft from roof edge



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03.04 0326 13 QTY:1 FL/-/5/-/-/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 sh pping install ng and bracing Refer to and follow the latest ed t on of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall prov de temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached r g d ceiling Locations shown for permanent lateral restraint of web shall have bracing nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Build ng Components Group Inc (ITWBCG) shall not be responsible for any deviation from th s design any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipp ng installation & brac ng of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Deta ls unless noted otherw se Refer to draw ngs 160A-Z for standard plate posit ons A seal on th draw ng or cover page l st ng this draw ng ind cates acceptance of professional engineering responsibility solely for the des gn shown The su tab lity and use of this design for any structure is the responsib l ty of the Building Des gner per ANSI/TPI 1 Sec 2 For more information see Th s job s general notes page ITW-BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www icesafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R9114- 28468
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326018
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD.	37.0 PSF	SEQN-	330516
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

11/22/2013

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H3 11'7 Stepdown Hip Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP 2850f-2 3E

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

130 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

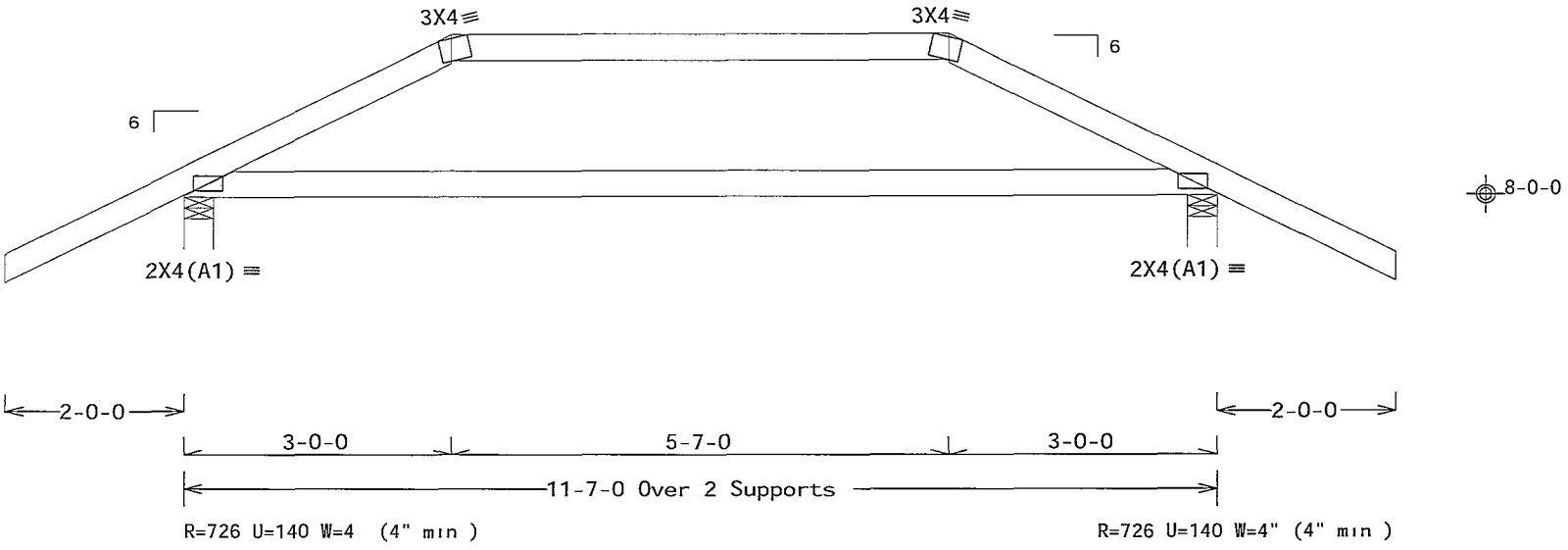
Wind loads and reactions based on MWFRS

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

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 56 plf at -2 00 to 56 plf at 3 00
TC- From 28 plf at 3 00 to 28 plf at 8 58
TC- From 56 plf at 8 58 to 56 plf at 13 58
BC- From 4 plf at -2 00 to 4 plf at 0 00
BC- From 20 plf at 0 00 to 20 plf at 3 03
BC- From 10 plf at 3 03 to 10 plf at 8 55
BC- From 20 plf at 8 55 to 20 plf at 11 58
BC- From 4 plf at 11 58 to 4 plf at 13 58
TC- 70 58 lb Conc Load at 3 03, 8 55
TC- 43 90 lb Conc Load at 5 06, 6 52
BC- 111 48 lb Conc Load at 3 03, 8 55
BC- 46 51 lb Conc Load at 5 06, 6 52

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)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12.03.04 0326 13 | QTY:1 | FL/-/5/-/-/R/- | Scale =.5"/Ft.

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

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

Trusses requ re extreme care n fabr cating handl ng shipp ng nstalling and bracing Refer to and follow the latest edition of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety practices prior to performing these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ce l ng Locat ons shown for permanent lateral restra nt of web shall have bracing installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design any fa lure to build the truss in conformance with ANSI/TPI 1 or for handl ng sh pping installation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on this draw ng or cover page listing th s draw ng nd cates acceptance of professional engineering respons b lity solely for the des gn shown The suitabil ty and use of th s des gn for any structure is the respons b lity of the Bu ld ng Designer per ANSI/TPI 1 Sec 2 For more information see This job s general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20.0 PSF	REF	R9114- 28469
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326019
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD.	37.0 PSF	SEQN-	339854
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H5 11'7 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

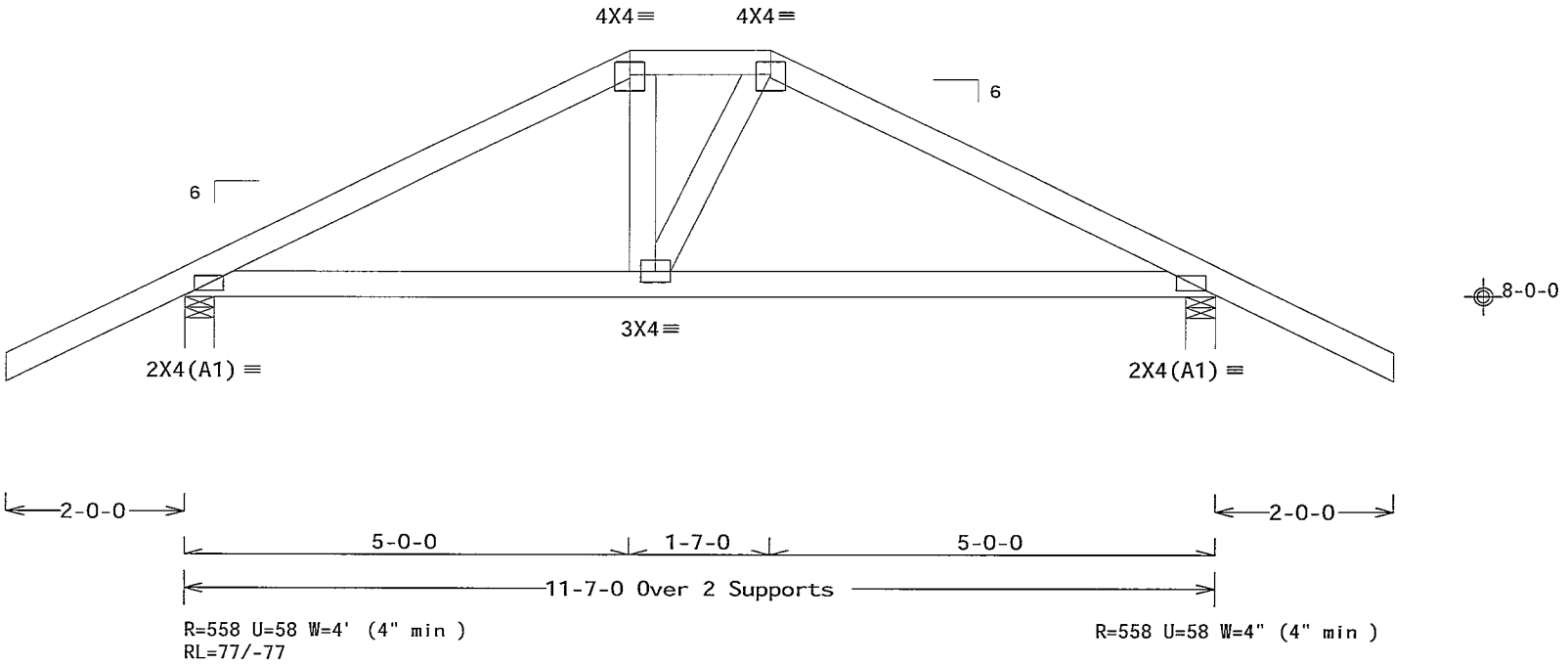
In lieu of structural panels use purlins to brace all flat TC @ 24" OC

130 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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03.04 Top/Bot QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

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

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

Trusses requ re extreme care in fabricat ng handling shipping install ng and bracing Refer to and follow the latest edition of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r gid ceiling Locations shown for permanent lateral restra nt of webs shall have bracing nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu lding Components Group Inc (ITWBCG) shall not be respons ble for any dev ation from this desig any fa lure to build the truss in conformance w th ANSI/TPI 1 or for hand l ng sh pping installation & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Data is unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on this drawing or cover page i sting th s draw ng nd cates acceptance of profess onal eng neer ng respons b l ty solely for the des gn shown The su tabil ty and use of th s des gn for any structure is the respons b l ty of the Building Des gner per ANSI/TPI 1 Sec 2 For more information see This job s general notes page ITW BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER F. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

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"

REF	R9114- 28470
DATE	11/22/13
DRW	HCUSR9114 13326020
HC-ENG	AP/AP
SEQN-	339734
JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H7 38'9"8 Stepdown Hip Girder)

Top chord 2x4 SP 2850f-2 3E T2, T3 2x6 SP M-26
Bot chord 2x4 SP 2850f-2 3E B2, B3 2x6 SP M-26
Webs 2x4 SP #3-13B W3, W4, W14 2x4 SP 2850f-2 3E
W5, W12, W13 2x4 SP #1-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

(J) Hanger Support Required, by others

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

Calculated vertical deflection is 1 08' due to live load and 1 43 due to dead load at X = 17-7-11

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

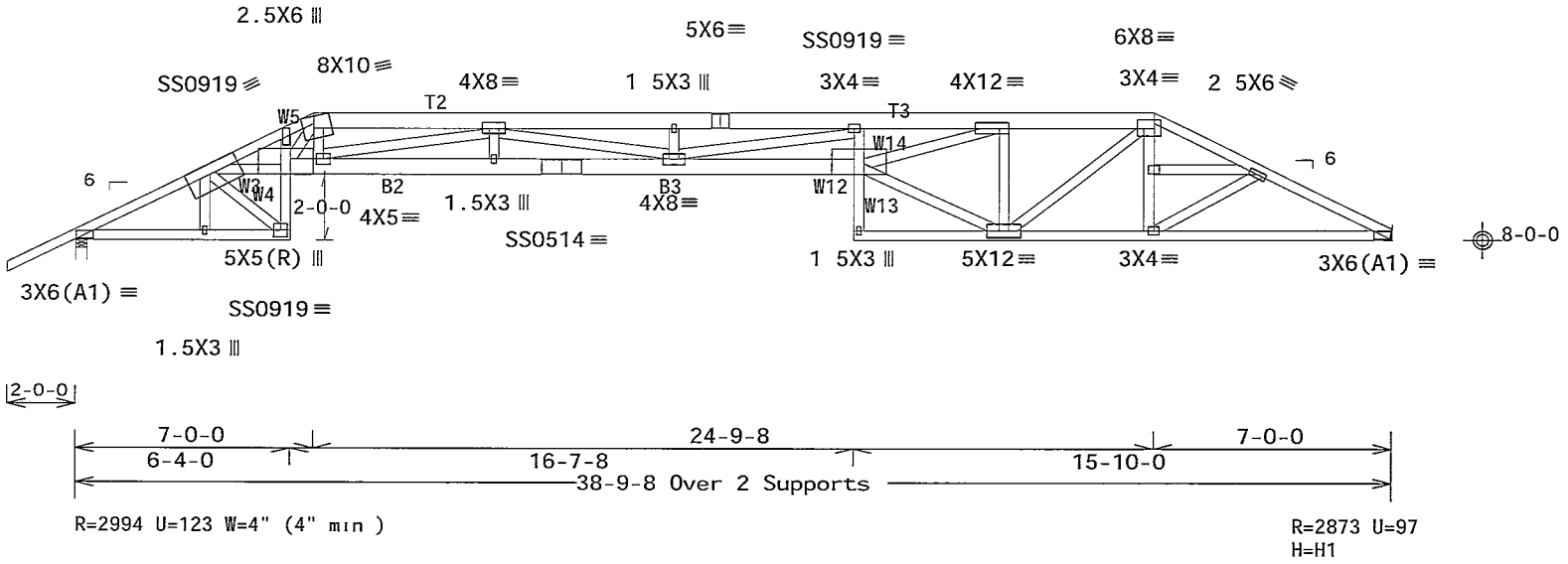
Wind loads and reactions based on MWFRS

Calculated horizontal deflection is 0 46" due to live load and 0 61' due to dead load

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

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

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



Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP. 18 Gauge HS,Wave FT/RT=10%(0%)/0(0) 12 03.04 QTY·1 FL/-/5/-/-/R/- Scale =.1875"/Ft

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

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

Trusses requ re extreme care in fabr cat ng handl ng shipp ng nstall ng and brac ng Refer to and follow the latest edit on of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety practices pr or to perform ng these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restra nt of webs shall have bracing installed per BCSI sections B3 B7 or B10 as appl cable

ITW Bu lding Components Group Inc (ITWBCG) shall not be respons ble for any dev ation from this desi any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handling sh pp ng installation brac ng of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on this drawing or cover page listing th s drawing nd cates acceptance of profess onal eng neer ng respons bility solely for the des gn shown The suitabil ty and use of th s des gn for any structure is the responsibility of the Build ng Designer per ANSI/TPI 1 Sec 2 For more nformation see This job s general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20.0 PSF	REF	R9114- 28471
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326021
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD.	37.0 PSF	SEQN-	324376
DUR.FAC.	1.25	FROM	JMW
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - H7A 26 4 Stepdown Hip Girder)

Top chord 2x6 SP M-26 T2 2x4 SP M-30
T3 2x4 SP #1-13B
Bot chord 2x4 SP 2850f-2 3E B3 2x4 SP M-30
Webs 2x4 SP #3-13B

Lumber grades designated with 13B' use design values approved 1/30/2013 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

Right cantilever is exposed to wind

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

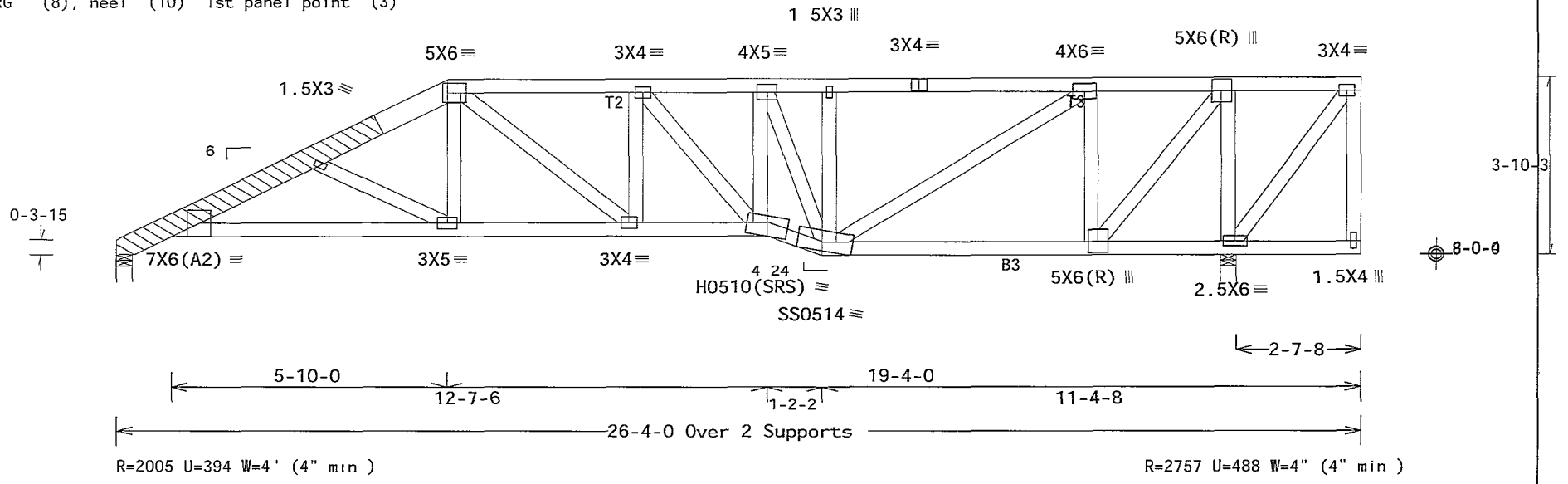
Bottom chord checked for 10 00 psf non-concurrent live load

(1) 2x6x6-2-12 SP M-26 scab at left end Attach scab to face of chord with 0 131 x3 , min nails @ 8' OC, plus additional nail clusters at BRG (8), heel (10) 1st panel point (3)

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 56 plf at 0 00 to 56 plf at 7 00
TC- From 28 plf at 7 00 to 28 plf at 17 00
TC- From 28 plf at 17 00 to 28 plf at 26 33
BC- From 20 plf at 0 00 to 20 plf at 7 03
BC- From 10 plf at 7 03 to 10 plf at 13 78
BC- From 11 plf at 13 78 to 11 plf at 14 96
BC- From 10 plf at 14 96 to 10 plf at 26 33
TC- 16 46 lb Conc Load at 7 03
TC- -62 44 lb Conc Load at 9 06 11 06,13 06,15 06 17 06
TC- 163 56 lb Conc Load at 19 06,21 06,23 06,25 06
BC- 671 76 lb Conc Load at 7 03
BC- 393 57 lb Conc Load at 9 06,11 06,13 06,15 06 17 06
BC- 125 00 lb Conc Load at 19 06,21 06,23 06,25 06

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



PLT TYP 20 Gauge HS,18 Gauge HS, Wave Design Crit FBC2010Res/TPI-2007(STD) FT/RT=10%(0%)/0(0) 13 01.04 0627 13 QTY·1 FL/-/5/-/-/R/- Scale =.3125"/Ft.

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

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

Trusses requ re extreme care n fabr cating handl ng sh pp ng nstall ng and bracing Refer to and follow the latest ed t on of BCSI (Building Component Safety Information by TPI and WTCA) for safety practices pr or to perform ng these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ce l ng Locat ons shown for permanent lateral restraint of web shall have brac ng installed per BCSI sect ons B3 B7 or B10 as appl cable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from th s design any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handl ng sh pp ng nstallat on & bracing of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate posit ons A seal on th s draw ng or cover page l st ng this draw ng indicates acceptance of profess onal eng neer ng responsibility solely for the design shown The suitability and use of th s design for any structure s the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more nformat on see This job s general notes page ITW-BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20.0 PSF	REF	R9114- 28472
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326036
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT.LD	37 0 PSF	SEQN-	3243 REV
DUR.FAC	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - H9 38 9 8 Stepdown Hip)

Top chord 2x4 SP #1-13B T3 2x4 SP M-30
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B W2, W3, W14 2x4 SP #2-13B
W4 2x4 SP #1-13B

Lumber grades designated with 13B' use design values approved 1/30/2013 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

These support conditions used at bearings indicated
(H1) = HUS26 w/ (1)2x6 SP M-26 supporting member
(14) 0 148 x3 nails into supporting member,
(4) 0 148 x3 nails into supported member

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

Calculated vertical deflection is 0 69" due to live load and 0 91' due to dead load at X = 18-0-8

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

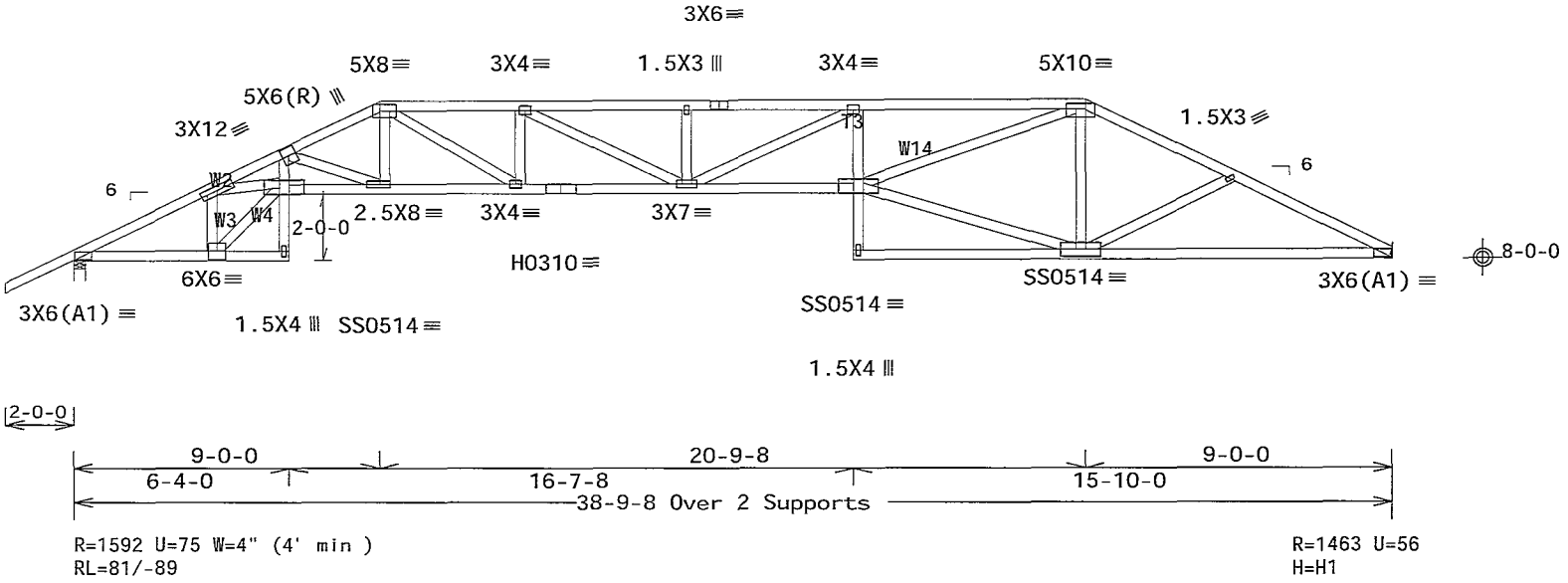
Calculated horizontal deflection is 0 34 due to live load and 0 45' due to dead load

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

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

MWFRS loads based on trusses located at least 7 50 ft from roof edge



PLT TYP 20 Gauge HS,18 Gauge HS, Wave Design Crit FBC2010Res/TPI-2007(STD) FT/RT=10%(0%)/0(0) 12.03.04 0326 13 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft

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

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

Trusses requ re extreme care in fabr cat ng handl ng sh pping install ng and brac ng Refer to and follow the latest edition of BCSI (Build ng Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ceiling Locat ons shown for permanent lateral restra nt of webs shall have brac ng nstalled per BCSI sect ons B3 B7 or B10 as appl cable

ITW Build ng Components Group Inc (ITWBCG) shall not be respons ble for any dev ation from this design any failure to bu ld the truss n conformance w th ANSI/TPI 1 or for handling shipp ng installat on & brac ng of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Deta ls unless noted otherw se Refer to draw ngs 160A-Z for standard plate pos tions A seal on this draw ng or cover page I st ng th s draw ng nd cates acceptance of professional engineering respons b l ty solely for the des gn shown The su tab l ty and use of this des gn for any structure is the respons b l ty of the Bu ld ng Des gner 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

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/22/2013

TC LL	20 0 PSF	REF	R9114- 28473
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326028
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD.	37 0 PSF	SEQN-	330752
DUR FAC	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - H9A 26 4 Stepdown Hip)

Top chord 2x4 SP #1-13B T1 2x6 SP M-26
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with 13B use design values approved 1/30/2013 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

(1) 2x6x7-8-14 SP M-26 scab at left end Attach scab to face of chord with 0 131'x3 , min nails @ 8" OC, plus additional nail clusters at BRG (4), heel (6), 1st panel point (3)

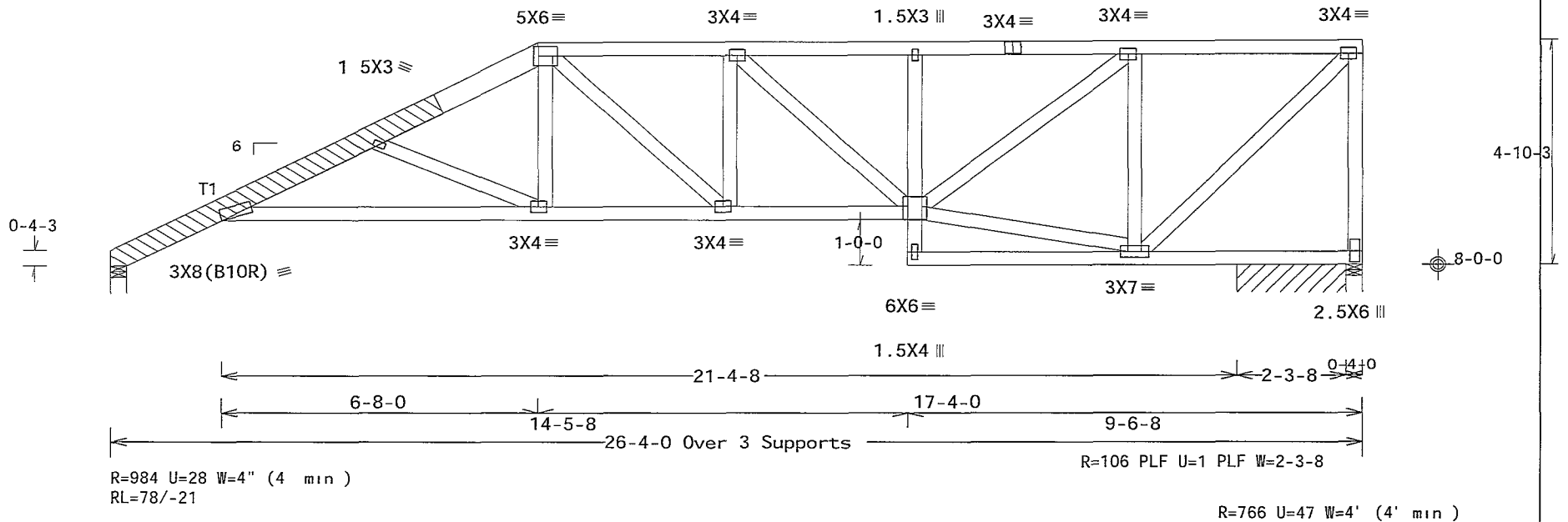
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 0320 13 QTY:1 FL/-/5/-/-/R/- Scale = 3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 n fabr cating handling sh pp ng nstall ng and bracing Refer to and follow the latest ed t on of BCSI (Bu id ng Component Safety Information by TPI and WTCA) for safety pract ces pr or to perform ng these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rig d ceil ng Locat ons shown for permanent lateral restraint of webs shall have bracing installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any dev ation from this design any fa lure to build the truss n conformance w th ANSI/TPI 1 or for handling sh pping installation bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on th s drawing or cover page listing th s drawing nd cates acceptance of profess onal engineering respons b l ty solely for the des gn shown The su tabil ty and use of th s des gn for any structure is the responsib lity of the Build ng Designer per ANSI/TPI 1 Sec 2 For more information see This job s general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28474
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326029
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT.LD	37 0 PSF	SEQN-	330480
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City FL - HJ3 4 2 15 Hip Jack Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B

Lumber grades designated with "13B use design values approved 1/30/2013 by ALSC

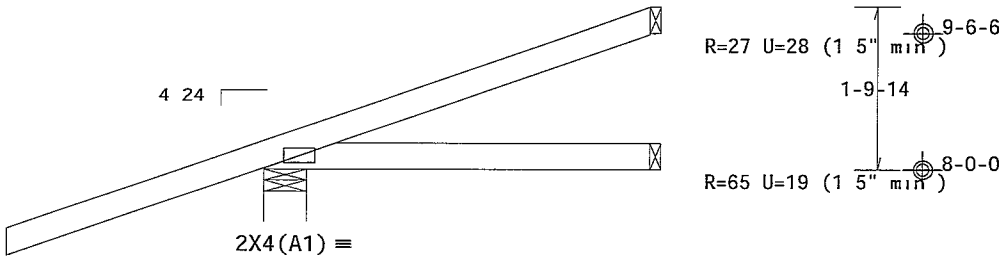
130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 0 plf at -2 83 to 55 plf at 0 00
TC- From 2 plf at 0 00 to 2 plf at 4 24
BC- From 0 plf at -2 83 to 4 plf at 0 00
BC- From 2 plf at 0 00 to 2 plf at 4 24
TC- -63 45 lb Conc Load at 1 48
BC- 1 08 lb Conc Load at 1 48

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 12 03 04 0336 13 QTY:2 FL/-/5/-/-/R/- Scale =.5"/Ft

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 sh pping install ng and brac ng Refer to and follow the latest ed tion of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to perform ng these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ceiling Locations shown for permanent lateral restraint of web shall have brac ng nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be responsible for any deviation from th s design any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handling shipp ng installation brac ng of trusses Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherw se Refer to drawings 160A-Z for standard plate posit ons A seal on th drawing or cover page i sting th s draw ng nd cates acceptance of professional eng neer ng responsibility solely for the design shown The su tab lity and use of th s design for any structure s the responsib l ty of the Bu lding Designer per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

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"

REF	R9114- 28475
DATE	11/22/13
DRW	HCUSR9114 13326030
HC-ENG	AP/AP
SEQN-	339851
JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - HJ7 9'10'13 Hip Jack Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B W3 2x4 SP #2-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

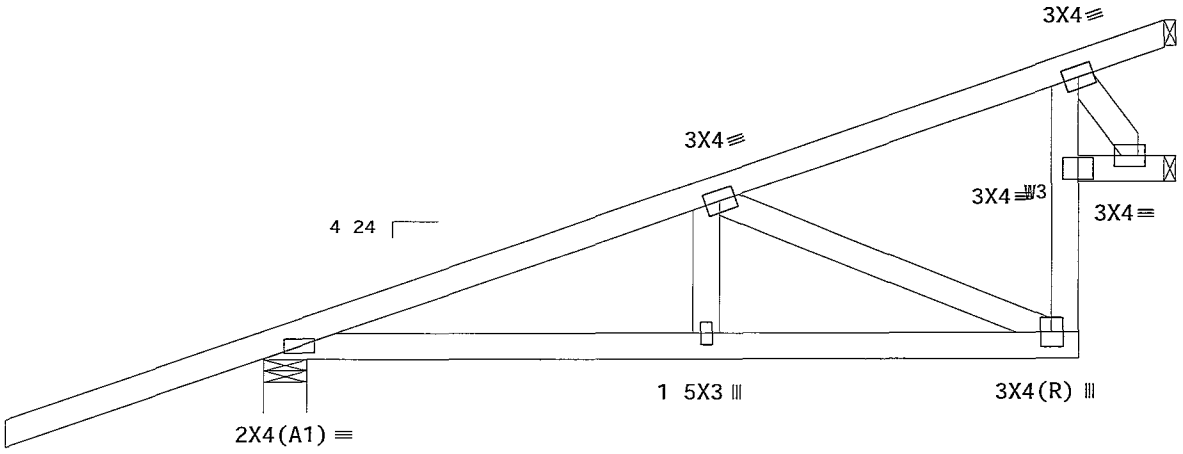
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

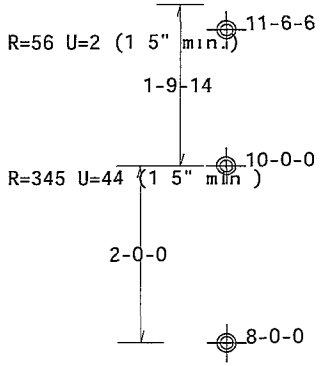
Wind loads and reactions based on MWFRS

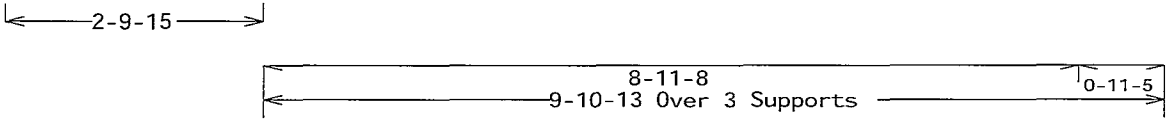
Bottom chord checked for 10 00 psf non-concurrent live load

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 0 plf at -2 83 to 55 plf at 0 00
TC- From 2 plf at 0 00 to 2 plf at 9 90
BC- From 0 plf at -2 83 to 4 plf at 0 00
BC- From 2 plf at 0 00 to 2 plf at 8 96
BC- From 2 plf at 8 96 to 2 plf at 9 90
TC- -63 45 lb Conc Load at 1 48
TC- 87 80 lb Conc Load at 4 31
TC- 215 63 lb Conc Load at 7 13
BC- 1 08 lb Conc Load at 1 48
BC- 93 02 lb Conc Load at 4 31
BC- 172 85 lb Conc Load at 7 13

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50







R=338 U=192 W=5 657 (5 657" min)

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12.03 04 0386 13 | QTY:1 | FL/-/5/-/-/R/- | Scale =.5"/Ft.

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

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

Trusses requ re extreme care in fabricating handl ng sh pp ng install ng and brac ng Refer to and follow the latest edition of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall prov de temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r gid ceiling Locat ons shown for permanent lateral restraint of web shall have brac ng installed per BCSI sect ons B3 B7 or B10 as appl cable

ITW Build ng Components Group Inc (ITWBCG) shall not be respons ble for any deviation from th s design any failure to bu ld the truss in conformance w th ANSI/TPI 1 or for handling shipp ng installat on brac ng of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Deta ls unless noted otherw se Refer to draw ngs 160A-Z for standard plate posit ons A seal on this draw ng or cover page l st ng this draw ng nd cates acceptance of professional eng neering responsibil ty solely for the design shown The su tab l ty and use of this design for any structure is the responsibil ty of the Bu ld ng Designer per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20.0 PSF	REF	R9114- 28476
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326031
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37.0 PSF	SEQN-	330597
DUR.FAC	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - HJ7A 9 10'13 Hip Jack Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

130 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

Shim all supports to solid bearing

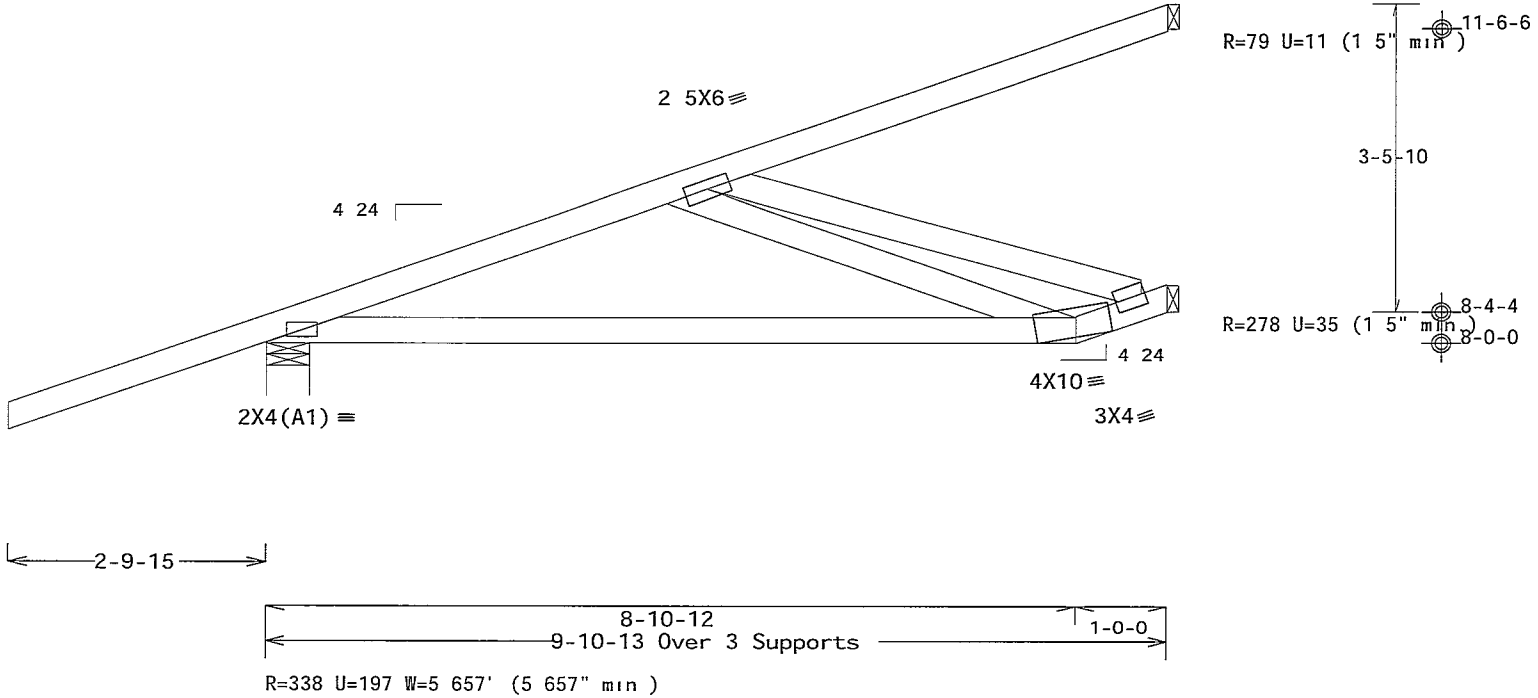
Special loads

------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)

TC- From	0 plf at	-2 83 to	55 plf at	0 00
TC- From	2 plf at	0 00 to	2 plf at	9 90
BC- From	0 plf at	-2 83 to	4 plf at	0 00
BC- From	2 plf at	0 00 to	2 plf at	8 90
BC- From	2 plf at	8 90 to	2 plf at	9 90

TC- -63 45 lb Conc Load at 1 48
TC- 87 80 lb Conc Load at 4 31
TC- 215 63 lb Conc Load at 7 13
BC- 1 08 lb Conc Load at 1 48
BC- 93 02 lb Conc Load at 4 31
BC- 172 85 lb Conc Load at 7 13

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)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12 03.04 | QTY.1 | FL/-/5/-/-/R/- | Scale =.5"/Ft.

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

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

Trusses requ re extreme care in fabricat ng handling sh pp ng install ng and brac ng Refer to and follow the latest edition of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety practices prior to performing these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restraint of webs shall have bracing nstalled per BCSI sections B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from th s design any failure to build the truss n conformance w th ANSI/TPI 1 or for handling shipp ng installation brac ng of trusses Apply plates to each face of truss and pos t on as shown above and on the Jo nt Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate pos tions A seal on this drawing or cover page (st ng th s drawing nd cates acceptance of profess onal engineer ng respons b ty solely for the des gn shown The su tab lity and use of th s des gn for any structure is the respons b lity of the Build ng Des gner per ANSI/TPI 1 Sec 2 For more information see This job s general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20 0 PSF	REF	R9114- 28477
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326032
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD.	37.0 PSF	SEQN-	339827
DUR FAC	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

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

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - PBA 4'9 6 Common)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

In lieu of rigid ceiling use purlins to brace BC @ 24" OC

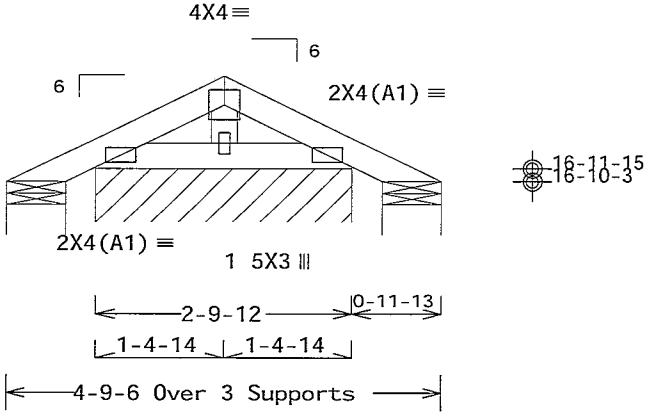
MWFRS loads based on trusses located at least 17 45 ft from roof edge

Refer to drawing PB160100212 for piggyback detail Top chord of supporting truss under piggyback to be braced @ 24" O C , unless otherwise specified

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 56 plf at 0 00 to 56 plf at 2 39
TC- From 56 plf at 2 39 to 56 plf at 4 78
BC- From 4 plf at 0 00 to 4 plf at 4 78

120 mph wind, 17 45 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=2 0 psf GCpi(+/-)=0 18

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



R=19 U=5 W=7 826" (7 826 R=19 U=3 W=7 826 (7 826' min)
R=74 PLF U=3 PLF W=2-9-12

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03.04 QTY:4 FL/-/5/-/-/R/- Scale =.5"/Ft

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

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

Trusses requ re extreme care n fabr cating handl ng sh pp ng nstall ng and bracing Refer to and follow the latest ed t on of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety practices pr or to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ce l ng Locat ons shown for permanent lateral restraint of webs shall have brac ng nstalled per BCSI sect ons B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from th s design any fa lure to bu ld the truss in conformance w th ANSI/TPI 1 or for handl ng shipp ng nstallat on brac ng of trusses Apply plates to each face of truss and position as shown above and on the Jo nt Data is unless noted otherw se Refer to draw ngs 160A-Z for standard plate posit ons A seal on th s draw ng or cover page i st ng th s draw ng nd cates acceptance of professional eng neer ng responsibil ty solely for the des gn shown The su tab l ity and use of th s des gn for any structure s the respons b l ty of the Bu ld ng Des gner per ANSI/TPI 1 Sec 2 For more informat on see Th s job s general notes page ITW-BCG www itwbcg com TPI www tp nst org WTCA www sbcindustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

TC LL	20.0 PSF	REF	R9114- 28478
TC DL	7.0 PSF	DATE	11/22/13
BC DL	10.0 PSF	DRW	HCUSR9114 13326033
BC LL	0.0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330906
DUR FAC.	1 25		
SPACING	24.0"	JREF-	1V1J487_Z01

(13-281--BRYAN ZECHER /Columbia County Builders -- Lake City, FL - PBA1 4 9"6 Stepdown Hip)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B' use design values approved 1/30/2013 by ALSC

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

In lieu of rigid ceiling use purlins to brace BC @ 24" OC

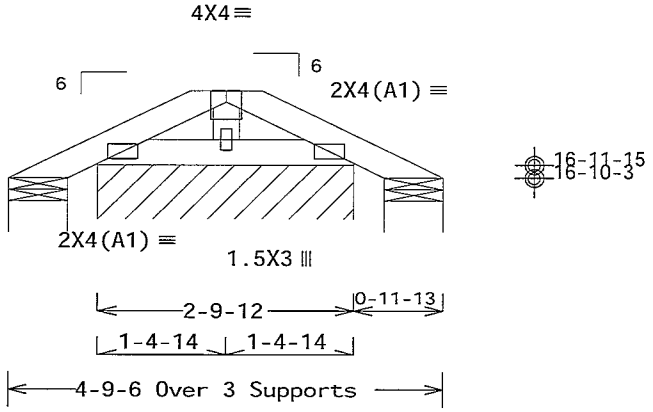
MWFRS loads based on trusses located at least 17 35 ft from roof edge

Refer to drawing PB160100212 for piggyback detail Top chord of supporting truss under piggyback to be braced @ 24' 0 C , unless otherwise specified

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 56 plf at 0 00 to 56 plf at 2 39
TC- From 56 plf at 2 39 to 56 plf at 4 78
BC- From 4 plf at 0 00 to 4 plf at 4 78

120 mph wind, 17 35 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=2 0 psf GCpi(+/-)=0 18

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



R=19 U=4 W=7 826" (7 826'R=19 U=3 W=7 826' (7 826" min)
R=74 PLF U=2 PLF W=2-9-12

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 0326 13 QTY.1 FL/-/5/-/-/R/- Scale = 5"/Ft.

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

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

Trusses requ re extreme care in fabr cat ng handl ng shipp ng nstalling and brac ng Refer to and follow the latest edition of BCSI (Bu ld ng Component Safety Informat on by TPI and WTCA) for safety practices prior to performing these funct ons Installers shall prov de temporary brac ng per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached r gid ce l ng Locations shown for permanent lateral restra nt of web shall have bracing installed per BCSI sect ons B3 B7 or B10 as appl cable

ITW Bu ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from this design any fa lure to build the trusses in conformance w th ANSI/TPI 1 or for handl ng sh pp ng nstallat on & bracing of trusses Apply plates to each face of truss and pos t on as shown above and on the Jo nt Deta ls unless noted otherw se Refer to draw ngs 160A-Z for standard p ate pos t ons A seal on this drawing or cover page listing th s draw ng nd cates acceptance of profess onal eng neer ng respons b lity solely for the design shown The su tabil ty and use of th s des gn for any structure s the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more nformat on see Th s job s general notes page ITW-BCG www twbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20 0 PSF	REF	R9114- 28479
TC DL	7 0 PSF	DATE	11/22/13
BC DL	10 0 PSF	DRW	HCUSR9114 13326034
BC LL	0 0 PSF	HC-ENG	AP/AP
TOT LD	37 0 PSF	SEQN-	330914
DUR FAC	1.25		
SPACING	24.0"	JREF-	1V1J487_Z01

11/22/2013

Gable Stud Reinforcement Detail

ASCE 7-10 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or 120 mph Wind Speed 15 Mean Height Partially Enclosed Exposure C Kzt = 1.00
Or 120 mph Wind Speed 15 Mean Height Enclosed, Exposure D Kzt = 1.00
Or 100 mph Wind Speed 15 Mean Height Partially Enclosed Exposure D Kzt = 1.00

Max Gable Vertical Length

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

Bracing Group Species and Grades

Group A

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B

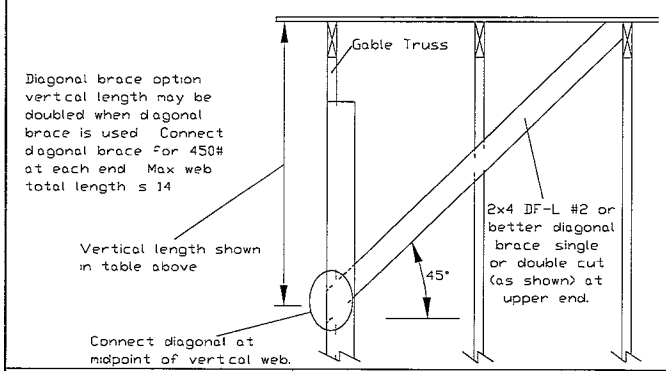
Hem-Fir
#1 & Btr
#1

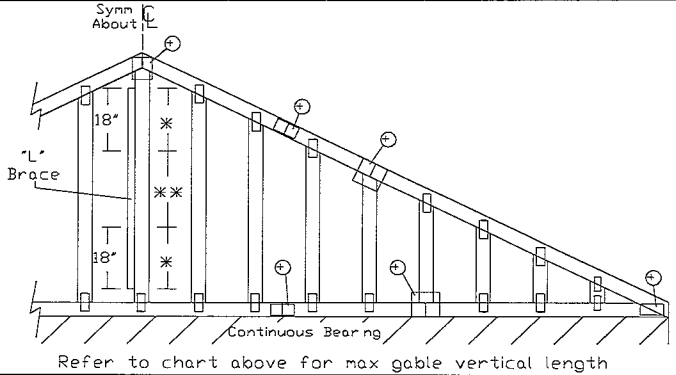
Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

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





Refer to chart above for max gable vertical length

Gable Truss Detail Notes

Wind Load deflection criterion is L/240

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

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

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

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

* For (1) "L" brace space nails at 2" o.c in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces space nails at 3" o.c in 18" end zones and 6" o.c between zones.

"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4 0"	1X4 or 2X3
Greater than 4 0" but less than 11 6"	2.5X4
Greater than 11 6"	3X4

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

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

TW
Building Components Group Inc.

Earth City MO 63045

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

ITW Building Components Group Inc shall not be responsible or any deviation from this drawing any 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 professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2
For more information see this job's general notes page and these web sites:
ITWBCG: www.itwbcg.com, TPI www.tpinst.org, WTCA: www.sbcindustry.org, ICC: www.iccsafe.org

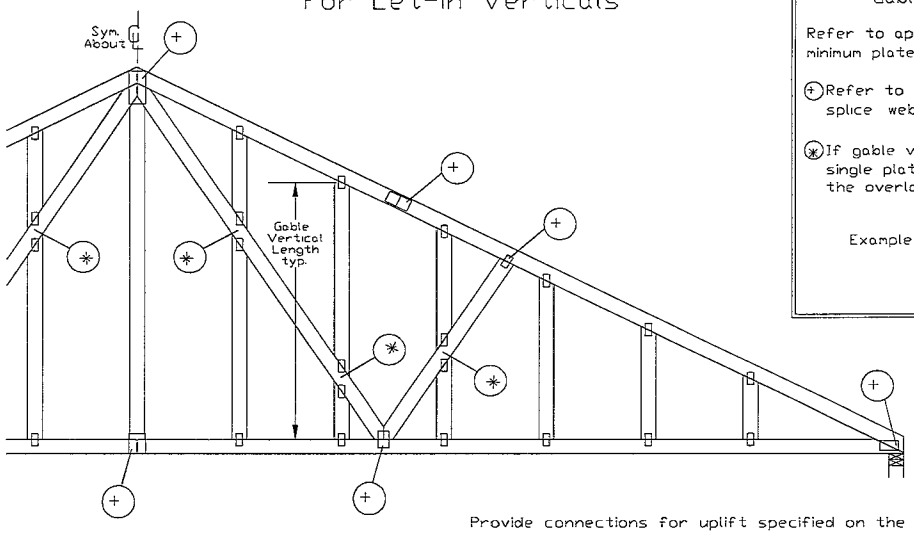
WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/22/2013

MAX TOT LD 60 PSF

MAX SPACING 24 0"

REF ASCE7-10-GAB14015
DATE 2/14/12
DRWG A14015ENC100212

Gable Detail
For Let-in Verticals



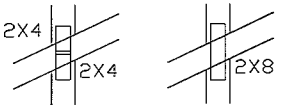
Gable Truss Plate Sizes

Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

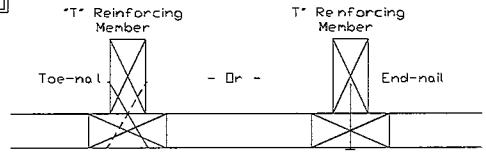
(+) Refer to Engineered truss design for peak splice web and heel plates

(*) If gable vertical plates overlap use a single plate that covers the total area of the overlapped plates to span the web

Example



"T" Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members multiply "T" increase by length (based on appropriate ITW gable detail)

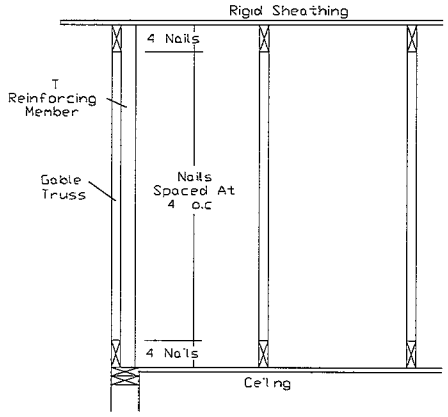
Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size specie and grade of the "L" reinforcing member

Web Length Increase w/ "T" Brace

"T" Reinf Mbr Size	"T" Increase
2x4	30 %
2x6	20 %

Example
- ASCE 7-10 Wind Speed = 120 mph
- Mean Roof Height = 30 ft Kzt = 1.00
- Gable Vertical = 24"oc SP #3
- "T" Reinforcing Member Size = 2x4
- "T" Brace Increase (From Above) = 30% = 1.30
- (1) 2x4 "L" Brace Length = 8' 7"
- Maximum "T" Reinforced Gable Vertical Length
  13.0 x 8' 7" = 11' 2"



Provide connections for uplift specified on the engineered truss design

Attach each "T" reinforcing member with

End Driven Nails
- 10d Common (0.148"x 3" min) Nails at 4" oc plus
- (4) nails in the top and bottom chords

Toenailed Nails
- 10d Common (0.148"x3" min) Toenails at 4" o.c plus
- (4) toenails in the top and bottom chords

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

ASCE 7-98 Gable Detail Drawings
A13015980109, A12015980109 A11015980109 A10015980109
A13030980109 A12030980109 A11030980109 A10030980109

ASCE 7-02 Gable Detail Drawings
A13015020109 A12015020109 A11015020109 A10015020109 A14015020109
A13030020109 A12030020109 A11030020109 A10030020109 A14030020109

ASCE 7-05 Gable Detail Drawings
A13015050109 A12015050109 A11015050109 A10015050109 A14015050109
A13030050109 A12030050109 A11030050109 A10030050109 A14030050109

ASCE 7-10 Gable Detail Drawings
A11515ENC100212 A12015ENC100212 A14015ENC100212 A16015ENC100212
A18015ENC100212 A20015ENC100212 A20015END100212 A20015PED100212
A11530ENC100212 A12030ENC100212 A14030ENC100212 A16030ENC100212
A18030ENC100212 A20030ENC100212 A20030END100212 A20030PED100212

See appropriate ITW gable detail for maximum unrenforced gable vertical length.

Building Components Group Inc.

Earth City MO 63045

WARNING! READ AND FOLLOW ALL NOTES ON THIS DRAWING!
!MPORTANT 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 WTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable 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.

ITW Building Components Group Inc shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2
For more information see this job's general notes page and these web sites:
ITWBCG: www.itwbcg.com, TPI www.tpinst.org, WTCA: www.sbcindustry.org, ICC: www.iccsafe.org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

13

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

REF	LET-IN VERT
DATE	2/16/12
DRWG	GBLLETIN0212

11/22/2013

CLR Reinforcing Member Substitution

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

Notes

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

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

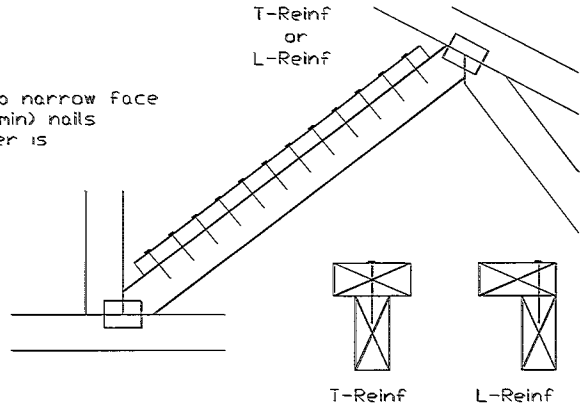
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf	Scab Reinf
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer s sealed design.

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

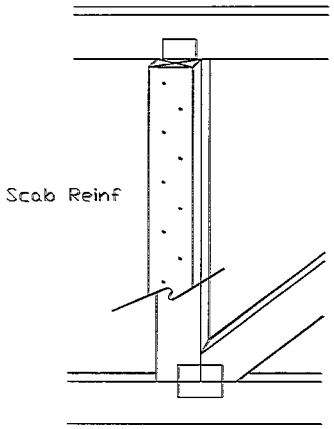
T-Reinforcement or L-Reinforcement

Apply to either side of web narrow face Attach with 10d (0128"x3 0",min) nails at 6" oc Reinforcing member is a minimum 80% of web member length



Scab Reinforcement

Apply scab(s) to wide face of web. No more than (1) scab per face Attach with 10d (0128"x3 0",min) nails at 6" o.c Reinforcing member is a minimum 80% of web member length.



ITW Building Components Group Inc.

Earth City MO 63045

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

13

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

Piggyback Detail - ASCE 7-10 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

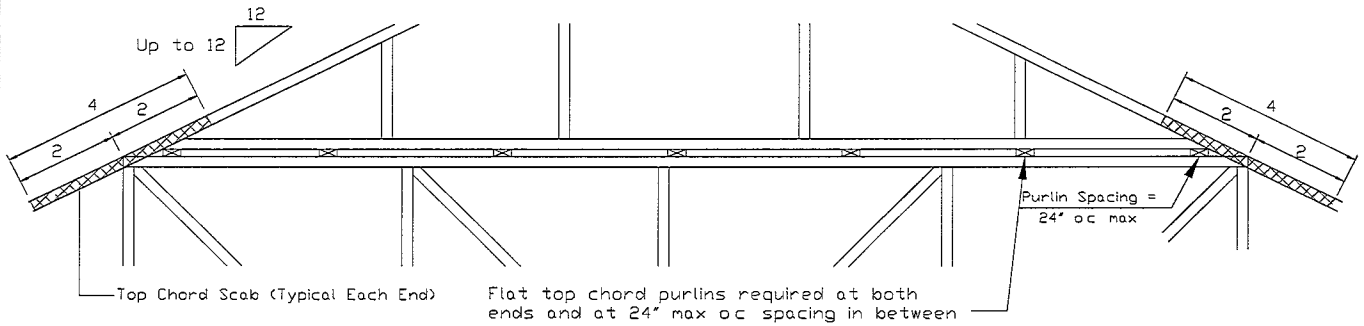
160 mph Wnd 30.00 ft Mean Hgt ASCE 7-10 Enclosed Bldg located anywhere in roof Exp C Wind DL= 5.0 psf (min) Kzt=1.0
Or 140 mph wind 30.00 ft Mean Hgt ASCE 7-10 Enclosed Bldg located anywhere in roof Exp D wind DL= 5.0 psf (min) Kzt=1.0

Note Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins and lateral bracing for out of plane loads over gable ends

Maximum truss spacing is 24" o.c. detail is not applicable if cap supports additional loads such as cupola steeple chimney or drag strut loads

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications

Detail A Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

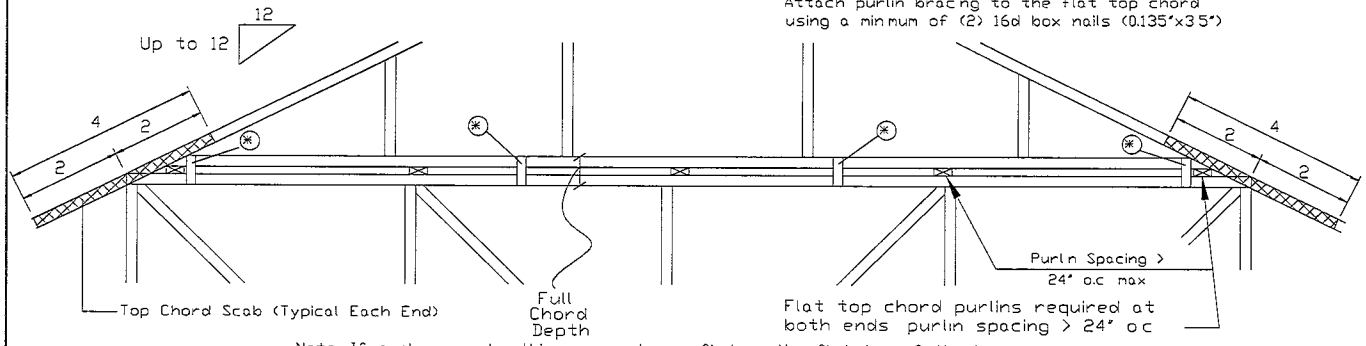
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5")

The top chord #3 grade 2x4 scab may be replaced with either of the following (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails Note Nailing thru holes of wave plate is acceptable

Detail B Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5")



Note If purlins or sheathing are not specified on the flat top of the base truss purlins must be installed at 24" o.c. max and use Detail A

* In addition provide connection with one of the following methods

Trulox
Use 3X8 Trulox plates for 2x4 chord member and 3X10 Trulox plates for 2x6 and larger chord members Attach to each face @ 8" o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord Trulox plates may be staggered 4" o.c. front to back faces

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face) Attach @ 8" o.c. with (8) 6d common (0.113"x2") nails per gusset (4) in cap bottom chord and (4) in base truss top chord Gussets may be staggered 4" o.c. front to back faces

2x4 Vertical Scabs
2x4 SPF #2 full chord depth scabs (each face) Attach @ 8" o.c. with (6) 10d box nails (0.128"x3") per scab (3) in cap bottom chord and (3) in base truss top chord Scabs may be staggered 4" o.c. front to back faces

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8" o.c. Attach teeth to piggyback at time of fabrication Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply Piggyback plates may be staggered 4' o.c. front to back faces

Building Components Group Inc.

Earth City MO 63045

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

JTW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2 For more information see this job's general notes page and these web sites:
JTWBCG: www.twbcg.com, TPI www.tpinst.org, WTCA: www.sbcindustry.org, ICC: www.iccsafe.org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

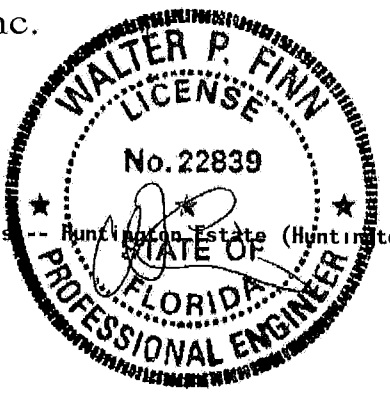
13

REF	PIGGYBACK
DATE	2/14/12
DRWG	PB160100212
SPACING	24.0"

11/22/2013

ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID 1V31487-Z0115131106



Truss Fabricator	Anderson Truss Company
Job Identification	13-281--Columbia County Bldrs Ass /Columbia County Builders -- Huntington Estate (Huntington
Truss Count	1
Model Code	Florida Building Code 2010
Truss Criteria	FBC2010Res/TPI-2007(STD)
Engineering Software	Alpine Software,Version 12.03.
Structural Engineer of Record	The identity of the structural EOR did not exist as of
Address	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads	Roof - 37.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 130 MPH ASCE 7-10 -Closed

01/15/2014

Notes

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

Walter P Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: 160TL-

#	Ref	Description	Drawing#	Date
1	76811-H3	repair 11'7"	14015003	01/15/14

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

(13-281--Columbia County Bldrs Ass /Columbia County Builders -- Huntington Estate - H3 repair 11'7' Stepdown Hip Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP 2850f-2 3E
Webs 2x4 SP #3-13B

Lumber grades designated with 13B" use design values approved 1/30/2013 by ALSC

130 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

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

Special loads

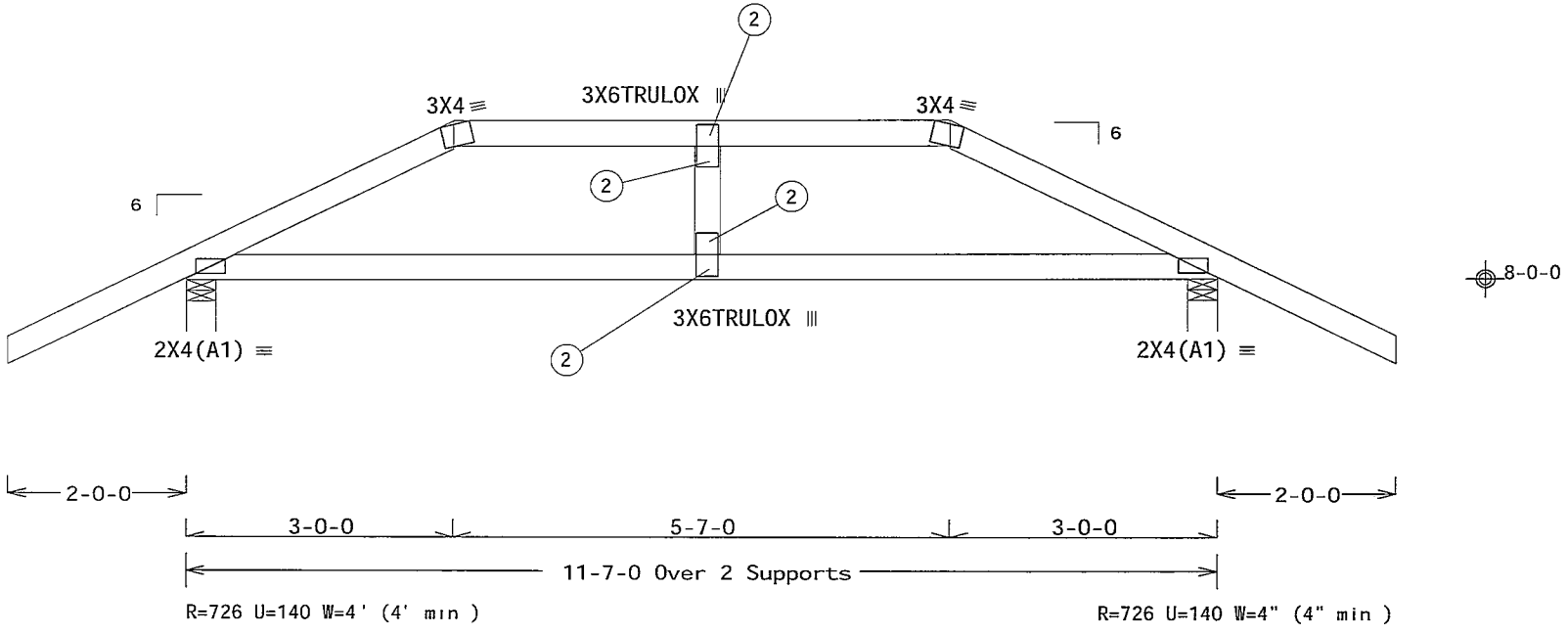
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)

TC- From	56 plf at	-2 00 to	56 plf at	3 00
TC- From	28 plf at	3 00 to	28 plf at	8 58
TC- From	56 plf at	8 58 to	56 plf at	13 58
BC- From	4 plf at	-2 00 to	4 plf at	0 00
BC- From	20 plf at	0 00 to	20 plf at	3 03
BC- From	10 plf at	3 03 to	10 plf at	8 55
BC- From	20 plf at	8 55 to	20 plf at	11 58
BC- From	4 plf at	11 58 to	4 plf at	13 58

TC- 70 58 lb Conc Load at 3.03, 8 55
TC- 43 90 lb Conc Load at 5.06, 6 52
BC- 111 48 lb Conc Load at 3 03, 8 55
BC- 46 51 lb Conc Load at 5 06, 6 52

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

11 GAUGE (0 120")X1 375" nails required for trulox plate attachment
Nails specified in circles must be applied to each face of each truss ply See DWG 160TL for nailing and trulox plate requirements



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave,Trulox FT/RT=10%(0%)/0(0) 12.03.04 0326 13 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 n fabr cating handling sh pp ng nstalling and bracing Refer to an follow the latest edition of BCSI (Bu ilding Component Safety Information by TPI and WTCA) for safety pract ces pr or to performing these functions nstallers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rig d ce l ng Locat ons shown for permanent lateral restra nt of web shall have brac ng installed per BCSI sect ons B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from th s design any failure to bu ild the truss in conformance with ANSI/TPI 1 or for handl ng shipp ng nstallat on & brac ng of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint Data is unless noted otherw se Refer to drawings 160A-Z for standard plate pos t ons A seal on this draw ng or cover page list ng this draw ng indicates acceptance of profess onal eng neer ng responsibil ty solely for the design shown The suitability and use of th s design for any structure s the respons bil ty of the Building Des gner per ANSI/TPI 1 Sec 2 For more informat on see This job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbc ndustry com ICC www iccsafe org

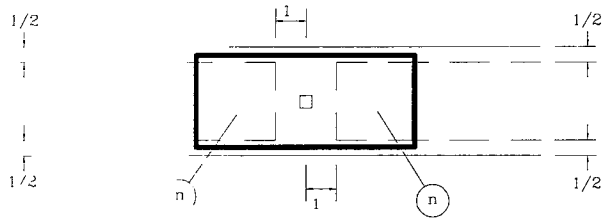
WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

01/15/2014

TC LL	20.0 PSF	REF	R9114- 76811
TC DL	7.0 PSF	DATE	01/15/14
BC DL	10.0 PSF	DRW	HCUSR9114 14015003
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	24462
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V31487_Z01

TRULOX INFORMATION DETAIL

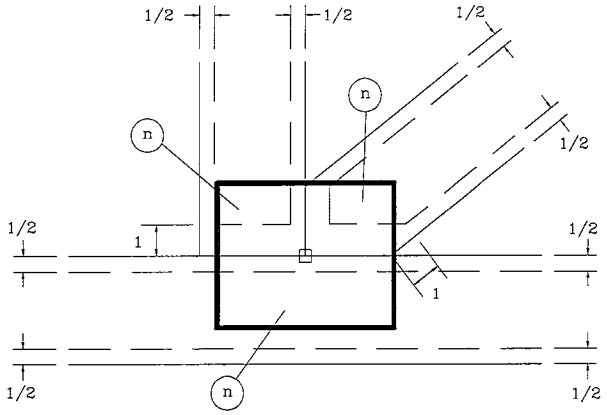
TYPICAL OFF PANEL SPLICE



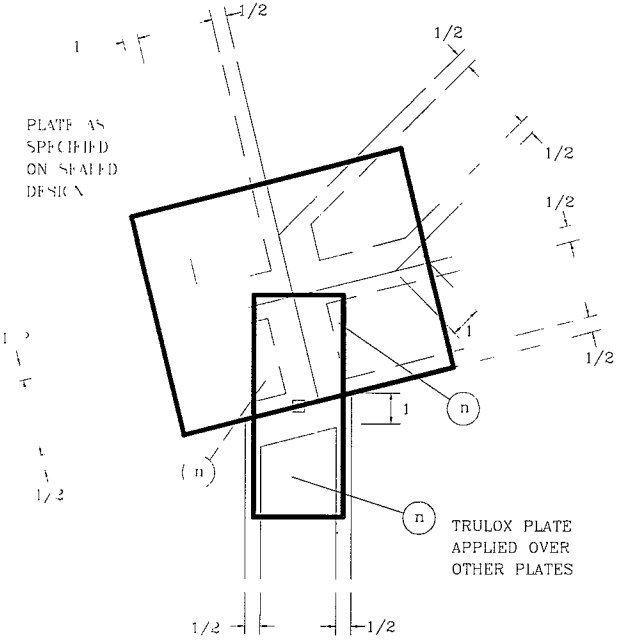
DO NOT APPLY NAILS WITHIN 1/2 OF LUMBER EDGES OR 1 OF LUMBER ENDS ON EACH FACE AS SHOWN BY DASHED LINES

NAILS MUST NOT SPLIT LUMBER

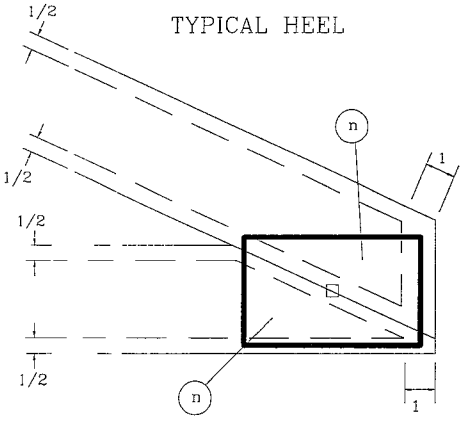
TYPICAL PANEL POINT WITHOUT SPLICE



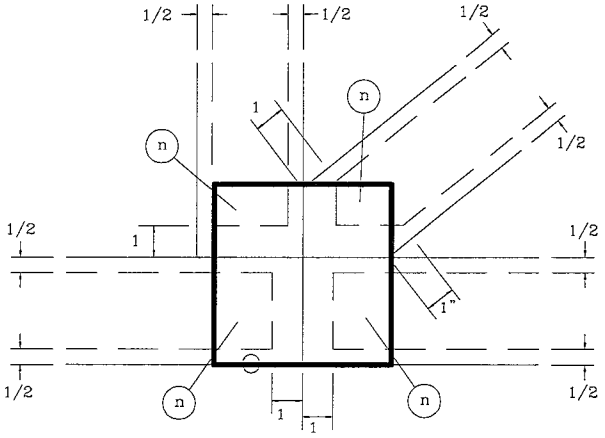
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE



Building Components Group Inc.

Earth City MO 63045

NOTES

(n) IS THE REQUIRED NUMBER OF 0.120 X 1.375 NAILS OR EQUAL, PER FACE PER PLY AS SPECIFIED ON THE SEALED DESIGN REFERENCING THIS DETAIL.

○ LOCATES PLATE CORNER OR FLUSH EDGE

□ LOCATES PLATE CENTER

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 14

TRULOX PLATING

160 TL

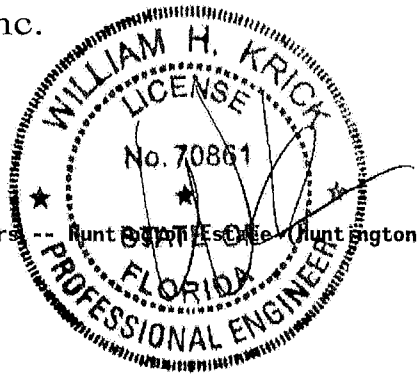
PAGE 1 OF 1

DATE 4/1/09

01/15/2014

ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
 Document ID 1V31487-Z0415133529



Truss Fabricator	**Anderson Truss Company**
Job Identification	**13-281--Columbia County Bldrs Ass /Columbia County Builders -- Hunt Bottom Estate - Huntington**
Truss Count	**1**
Model Code	**Florida Building Code 2010**
Truss Criteria	**FBC2010Res/TPI-2007(STD)**
Engineering Software	**Alpine Software,Version 12.03.**
Structural Engineer of Record	**The identity of the structural EOR did not exist as of**
Address	**the seal date per section 61G15-31.003(5a) of the FAC**
Minimum Design Loads	**Roof - 37.0 PSF @ 1.25 Duration** **Floor - N/A** **Wind - 120 MPH ASCE 7-10 -Closed**

01/15/2014

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: -

#	Ref	Description	Drawing#	Date
1	81579-EJ7Cr	7' End Jac	14015027	01/15/14

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

(13-281--Columbia County Bldrs Ass /Columbia County Builders -- Huntington Estate - EJ7Cr 7' End Jack BC scab repair)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

(1) 2x4X7-0-0 SP #1-13B Bottom chord scab centered 3-6-0 from left end Attach to one face of chord with (2) rows of 0 131'x3", min nails @ 6 0 C , staggered 3"

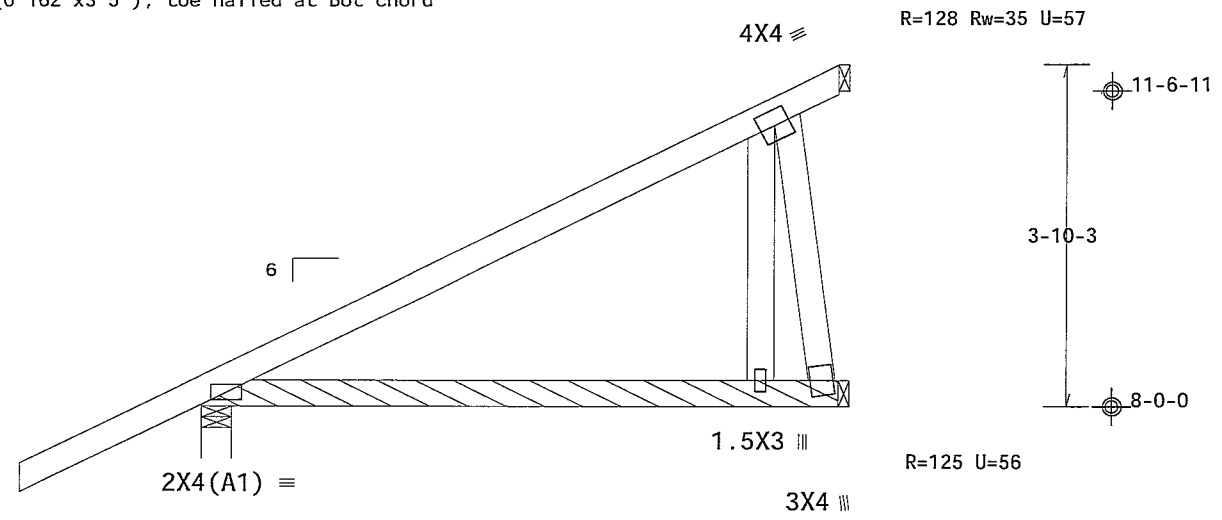
Provide (2) 16d common nails(0 162"x3 5"), toe nailed at Top chord
Provide (2) 16d common nails(0 162"x3 5"), toe nailed at Bot chord

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

MWFRS loads based on trusses located at least 7 50 ft from roof edge



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 0326.13 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

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

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

Trusses requ re extreme care in fabr cat ng handling shipping install ng and brac ng Re f to and follow the latest edition of BCSI (Building Component Safety Informat on by TPI and WTCA) for safety pract ces prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherw se top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached r g d ce l ing Locat ons shown for permanent lateral restraint of webs shall have brac ng nstalled per BCSI sect ons B3 B7 or B10 as appl cable

ITW Build ng Components Group Inc (ITWBCG) shall not be respons ble for any deviat on from this design any failure to bu ld the truss in conformance with ANSI/TPI 1 or for hand l ng shipp ng nstallation & brac ng of trusses Apply plates to each face of truss and position as shown above and on the Joint Deta ls unless noted otherw se Refer to draw ngs 160A-Z for standard plate posit ons Review this draw ng or cover page listing this draw ng indicates acceptance of profess onal eng neer responsibility solely for the design shown The suitability and use of th s design for any the responsibility of the Building Des gner per ANSI/TPI 1 Sec 2 For more nformation see general notes page ITW-BCG www itwbcg com TPI www tp nst org WTCA www sbc ndustry com ICC www ccsafe org

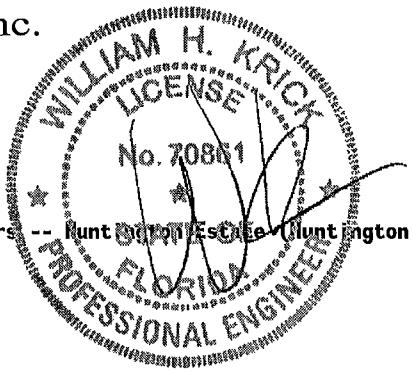
WILLIAM H. KRICK LICENSE No 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/15/2014

TC LL	20 0 PSF	REF	R9114- 81579
TC DL	7.0 PSF	DATE	01/15/14
BC DL	10.0 PSF	DRW	HCUSR9114 14015027
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	37.0 PSF	SEQN-	24814
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V31487_Z04

Permit # 31631

ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
 Document ID 1V31487-Z0415133529



Truss Fabricator	**Anderson Truss Company**
Job Identification.	**13-281--Columbia County Bldrs Ass /Columbia County Builders -- Hunt Bolton Estate (Huntington**
Truss Count	**1**
Model Code	**Florida Building Code 2010**
Truss Criteria	**FBC2010Res/TPI-2007(STD)**
Engineering Software	**Alpine Software,Version 12.03.**
Structural Engineer of Record.	**The identity of the structural EOR did not exist as of**
Address	**the seal date per section 61G15-31.003(5a) of the FAC**
Minimum Design Loads	**Roof - 37.0 PSF @ 1.25 Duration** **Floor - N/A** **Wind - 120 MPH ASCE 7-10 -Closed**

01/15/2014

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: -

#	Ref	Description	Drawing#	Date
1	81579-EJ7Cr	7' End Jac	14015027	01/15/14

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

(13-281--Columbia County Bldrs Ass /Columbia County Builders -- Huntington Estate - EJ7Cr 7' End Jack BC scab repair)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

(1) 2x4X7-0-0 SP #1-13B Bottom chord scab centered 3-6-0 from left end. Attach to one face of chord with (2) rows of 0.131"x3", min. nails @ 6" O.C., staggered 3".

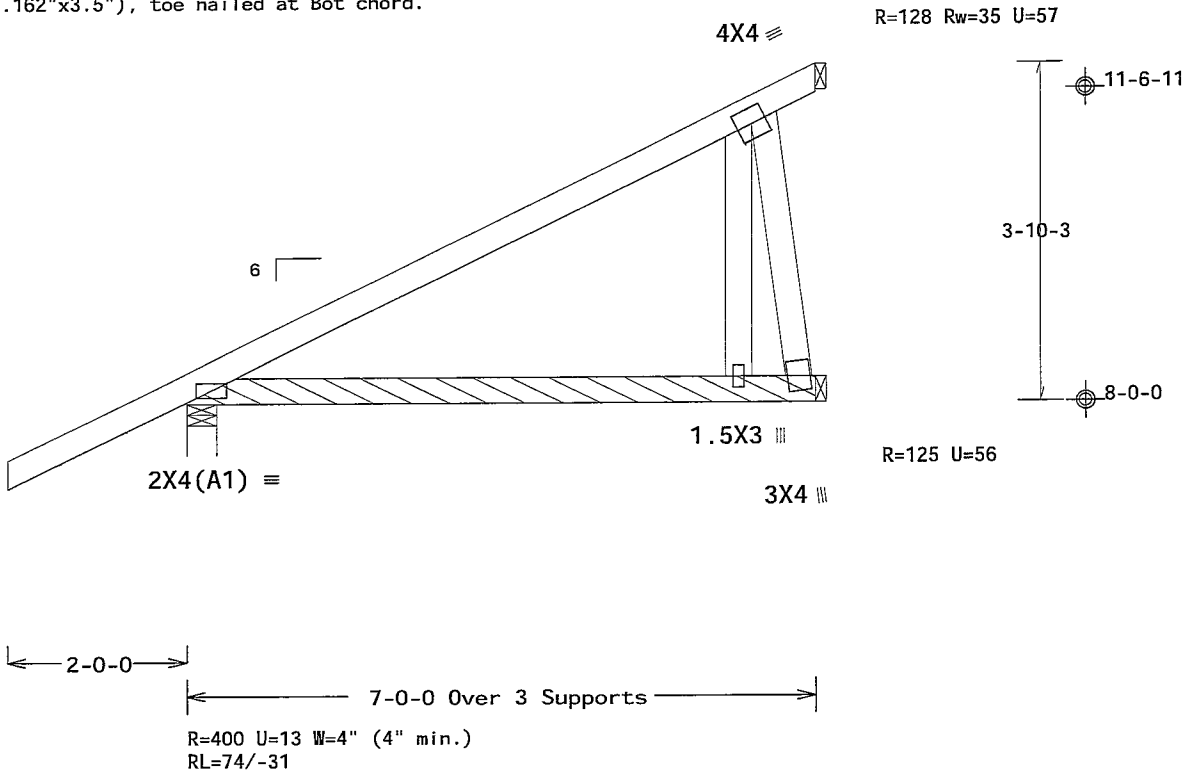
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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.

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=10%(0%)/0(0) | 12_03_04_0326.13 | QTY:1 | FL/-/5/-/-/R/- | Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 and follow the latest edit on of BCSI (Building Component Safety Information by TPI and WTCA) 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 sheath ng 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 Bu lding Components Group Inc (ITWBCG) shall not be respons ble for any dev at on from this des gn any failure to build the truss in conformance with ANSI/TPI 1 or for handling sh pp ng nstallation & bracing of trusses Apply plates to each face of truss and pos tion as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate positions Reseal & this drawing or cover page listing this draw ng indicates acceptance of professional engineering respons bil ty solely for the des gn shown The su tability and use of this design for any particular the responsibility of the Bu lding Designer per ANSI/TPI 1 Sec 2 For more information see general notes page ITW-BCG www twbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

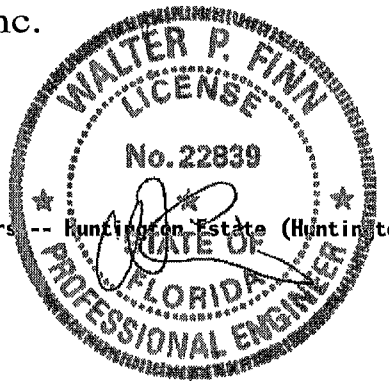
WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/15/2014

TC LL	20.0 PSF	REF	R9114- 81579
TC DL	7.0 PSF	DATE	01/15/14
BC DL	10.0 PSF	DRW	HCUSR9114 14015027
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	37.0 PSF	SEQN-	24814
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V31487_Z04

Permit # 31631

ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID 1V31487-Z0115131106



Truss Fabricator	**Anderson Truss Company**
Job Identification.	**13-281--Columbia County Bldrs Ass /Columbia County Builders -- Huntington Estate (Huntington**
Truss Count.	**1**
Model Code	**Florida Building Code 2010**
Truss Criteria.	**FBC2010Res/TPI-2007(STD)**
Engineering Software	**Alpine Software,Version 12.03.**
Structural Engineer of Record	**The identity of the structural EOR did not exist as of**
Address	**the seal date per section 61G15-31.003(5a) of the FAC**
Minimum Design Loads	**Roof - 37.0 PSF @ 1.25 Duration**
	Floor - N/A
	Wind - 130 MPH ASCE 7-10 -Closed

01/15/2014

Notes

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

Walter P Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: 160TL-

#	Ref	Description	Drawing#	Date
1	76811-H3	repair 11'7"	14015003	01/15/14

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

(13-281--Columbia County Bldrs Ass /Columbia County Builders -- Huntington Estate - H3 repair 11'7" Stepdown Hip Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP 2850f-2.3E
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

130 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.

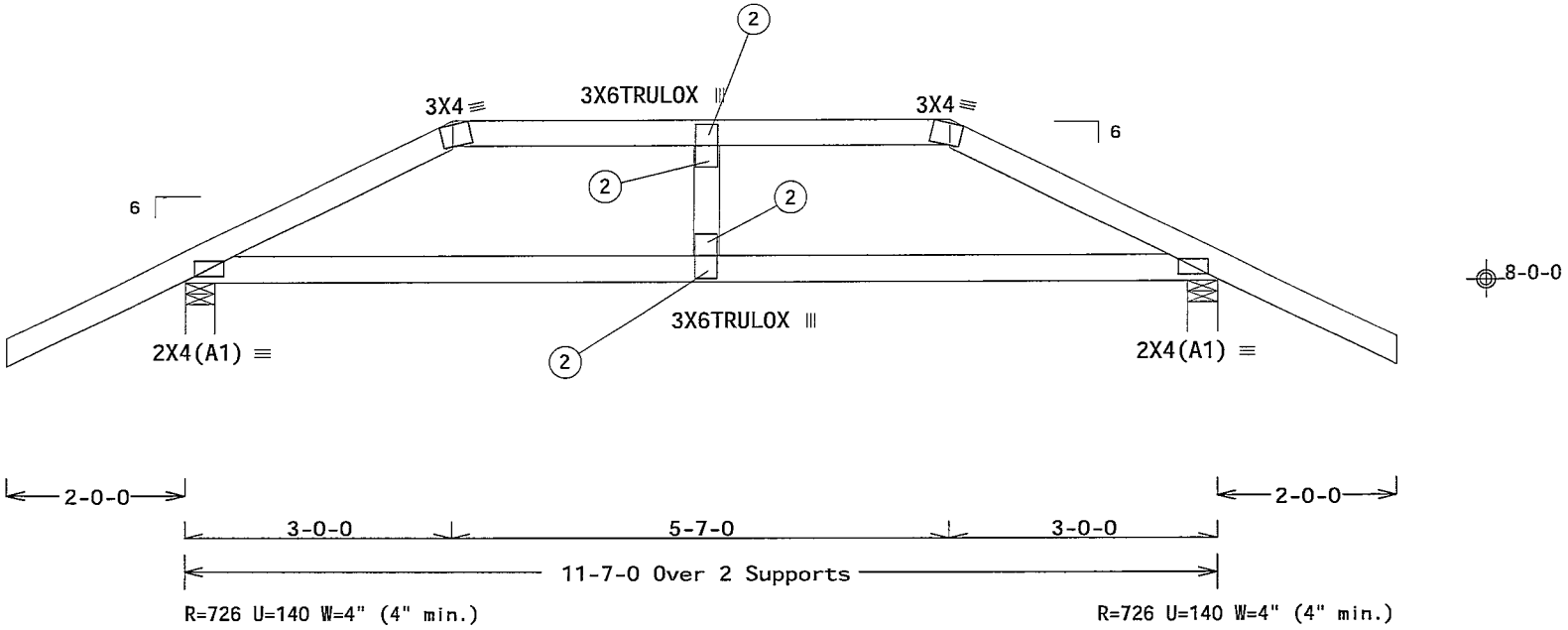
In lieu of structural panels use purlins to brace all flat TC @ 24" OC

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

Special loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 56 plf at -2.00 to 56 plf at 3.00
TC- From 28 plf at 3.00 to 28 plf at 8.58
TC- From 56 plf at 8.58 to 56 plf at 13.58
BC- From 4 plf at -2.00 to 4 plf at 0.00
BC- From 20 plf at 0.00 to 20 plf at 3.03
BC- From 10 plf at 3.03 to 10 plf at 8.55
BC- From 20 plf at 8.55 to 20 plf at 11.58
BC- From 4 plf at 11.58 to 4 plf at 13.58
TC- 70.58 lb Conc. Load at 3.03, 8.55
TC- 43.90 lb Conc. Load at 5.06, 6.52
BC- 111.48 lb Conc. Load at 3.03, 8.55
BC- 46.51 lb Conc. Load at 5.06, 6.52

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

11 GAUGE (0.120")X1.375" nails required for trulox plate attachment. Nails specified in circles must be applied to each face of each truss ply See DWG 160TL for nailing and trulox plate requirements.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave,Trulox FT/RT=10%(0%)/0(0) 12.03.04.0336.13 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
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 and follow the latest edition of BCSI (Build ng Component Safety Information by TPI and WTCA) for safety practices pr or to performing these functions Installers shall prov de temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheath ng and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restraint of web shall have bracing installed per BCSI sections B3 B7 or B10 as applicable

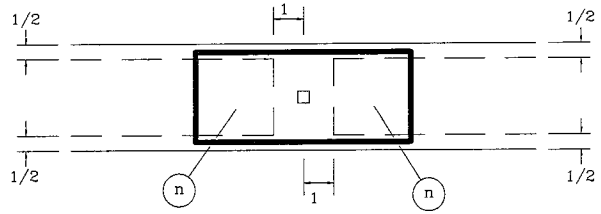
ITW Bu lding Components Group Inc (ITWBCG) shall not be responsible for any dev at on from th s de gn any failure to build the trusses in conformance with ANSI/TPI 1 or for handl ng sh pping nstallation bracing of trusses Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise Refer to draw ngs 160A-Z for standard plate positions A seal on this drawing or cover page list ng this draw ng ind cates acceptance of professional engineering respons bility solely for the des gn shown The suitab lity and use of this des gn for any structure s the responsib lity of the Building Designer per ANSI/TPI 1 Sec 2 For more information see This job s general notes page ITW-BCG www twbcg com TPI www tp nst org WTCA www sbcindustry com ICC www iccsafe org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/15/2014

TC LL	20.0 PSF	REF	R9114- 76811
TC DL	7.0 PSF	DATE	01/15/14
BC DL	10.0 PSF	DRW	HCUSR9114 14015003
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	24462
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V31487_Z01

TRULOX INFORMATION DETAIL

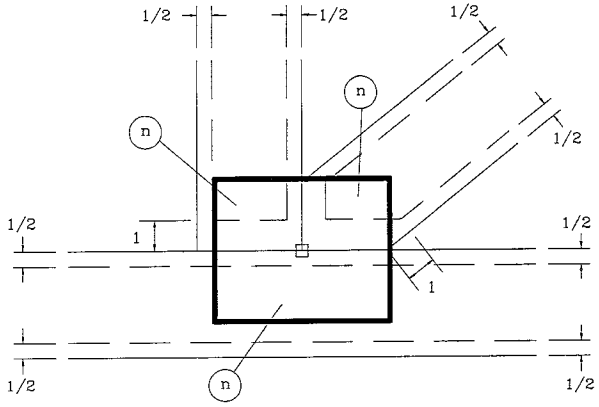
TYPICAL OFF PANEL SPLICE



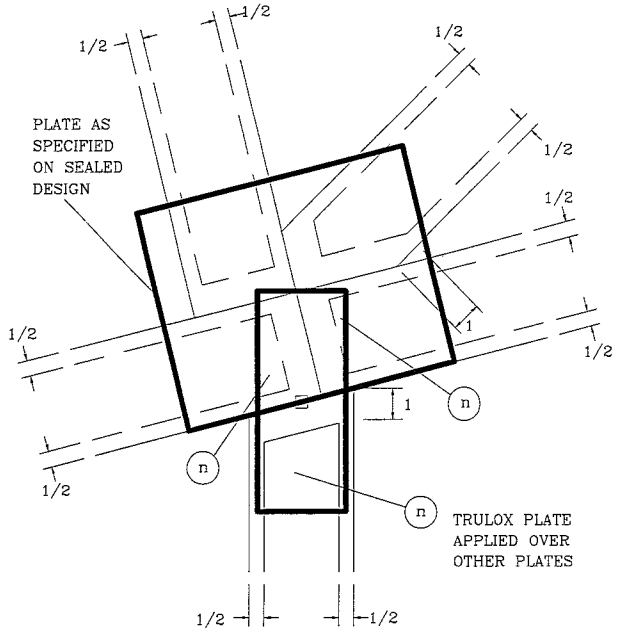
DO NOT APPLY NAILS WITHIN 1/2 OF LUMBER EDGES OR 1 OF LUMBER ENDS ON EACH FACE AS SHOWN BY DASHED LINES

NAILS MUST NOT SPLIT LUMBER

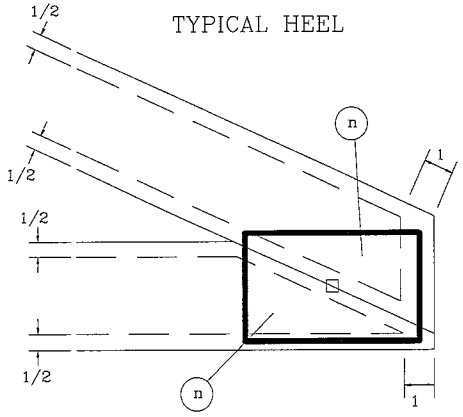
TYPICAL PANEL POINT WITHOUT SPLICE



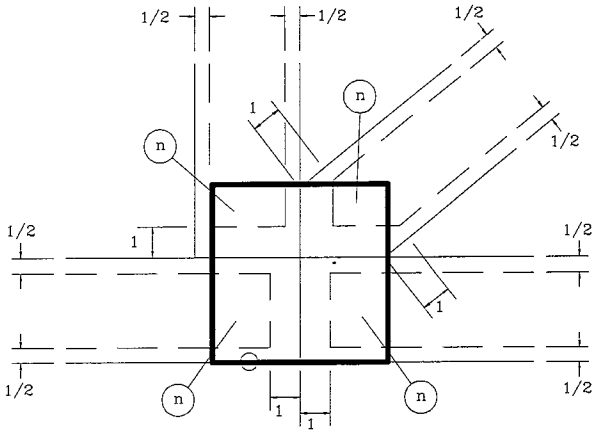
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE



Building Components Group Inc.

Earth City MO 63045

NOTES

(n) IS THE REQUIRED NUMBER OF 0.120 X 1.375 NAILS OR EQUAL, PER FACE PER PLY AS SPECIFIED ON THE SEALED DESIGN REFERENCING THIS DETAIL

○ LOCATES PLATE CORNER OR FLUSH EDGE

□ LOCATES PLATE CENTER.

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

TRULOX PLATING

160 TL

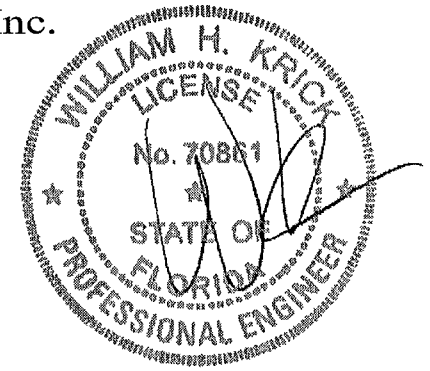
PAGE 1 OF 1

DATE 4/1/09

Permit #31631

ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
 Document ID 1V329114Z0215110638



Truss Fabricator	Anderson Truss Company
Job Identification.	REPAIR / 13-281 -H9 -BRYAN ZE (REPAIR / 13 281-)
Truss Count.	1
Model Code	Florida Building Code 2010
Truss Criteria.	FBC2010Res/TPI 2007(STD)
Engineering Software	Alpine Software,Version 13.02.
Structural Engineer of Record	The identity of the structural EOR did not exist as of
Address	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads	Roof - 37.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 120 MPH ASCE 7-10 -Closed

01/15/2014

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: -

#	Ref	Description	Drawing#	Date
1	82924	--H9 Jack Scab	14015002	01/15/14

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

(REPAIR / 13 281 H9 BRYAN ZE - H9 Jack Scab)

REPAIR TO CHANGE EXTERIOR GEOMETRY OF TRUSS SHOWN BELOW

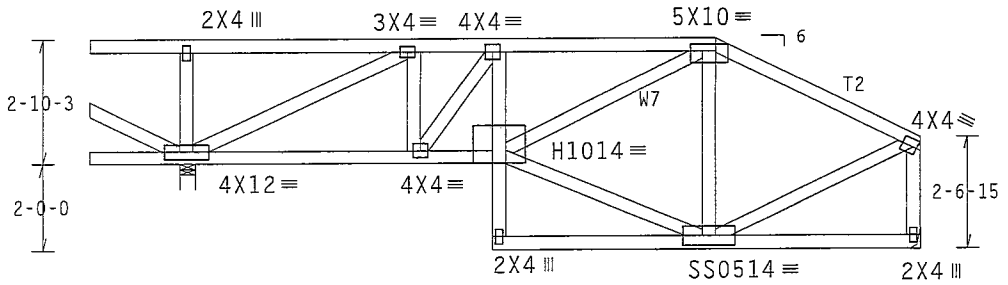
FIELD REPAIR MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS

REFER TO DRAWING HCUSR9114 13326028 FOR LUMBER, PLATES AND OTHER DATA NOT GIVEN HERE

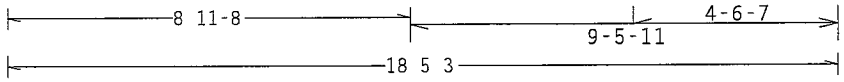
NOTE PRIOR TO AND DURING THE REPAIR OPPERATION, THIS TRUSS AND ANY SUPPORTED SPANS MUST BE TEMPORARILY BRACED AND SHORED THE DESIGN AND POSITIONING OF THIS BRACING AND SHORING TO BE DESIGNED BY OTHERS.

+ USE A SHARP METAL CUTTING SAW BLADE TO CAREFULLY REMOVE UNWANTED MATERIAL FROM THE TRUSS AS SHOWN DASHED REMAINING PORTIONS OF TRUSS MUST BE FREE FROM DAMAGE.

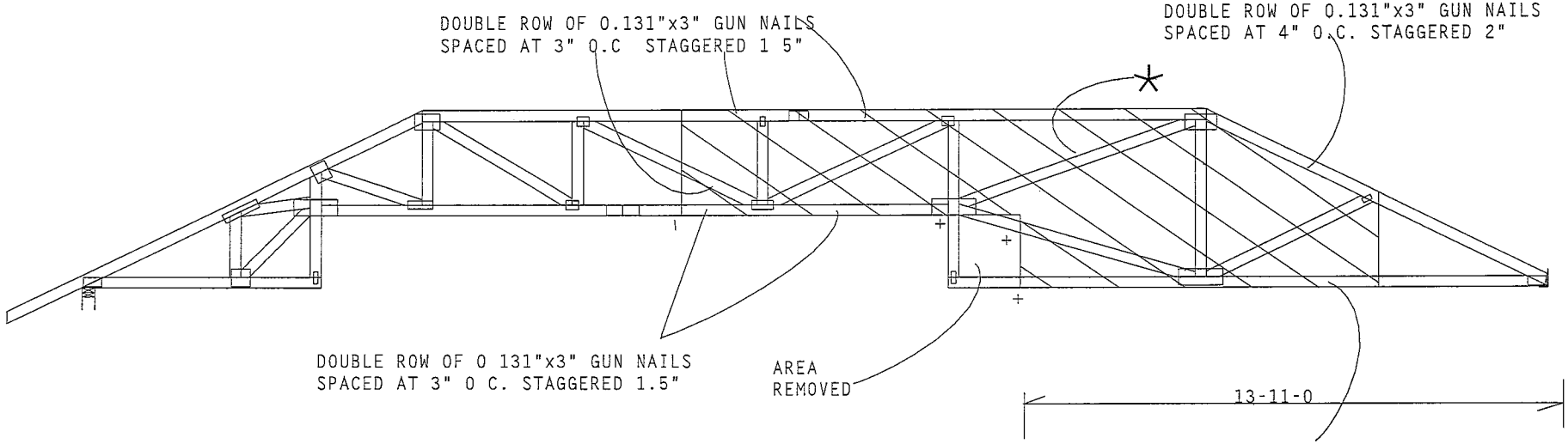
* ONE (1) JACK SCAB. CHORDS AND WEBS AS SHOWN IN DETAIL ONE (1) JACK SCAB REQUIRED ATTACH JACK SCAB TO ONE FACE OF TRUSS WITH A DOUBLE ROW OF 0 131"x3" GUN NAILS SPACED AT 24" O C STAGGERED 12" THROUGHOUT MATCHING MEMBERS, UNLESS OTHERWISE NOTED REFER TO DRAWING CNNAILSP0109 FOR ADDITIONAL NAIL SPACING INFORMATION.



Top chord 2x4 SP M-30 :T2 2x4 SP #1.
Bot chord 2x4 SP #1
Webs 2x4 SP #3 ·W7 2x4 SP #2 N



* 18-5-3 Jack Scab Detail



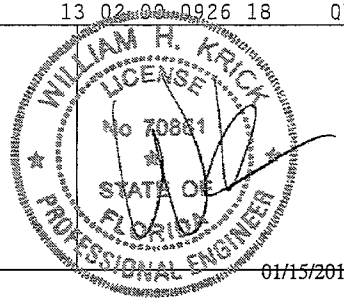
PLT TYP. 20 Gauge HS,18 Gauge HS, Wave Design Crit FBC2010Res/TPI-2007(STD) FT/RT=10%(0%)/0(0) 13 02 00 0926 18 QTY:0 FL/-/3/-/-/R/- Scale =.25"/Ft.

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

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR IN SOME CASES THE PRUDENT SOLUTION IS TO SCRAP THE DAMAGED TRUSSES AND REBUILD INTERNAL WOOD FIBER DAMAGE AND EXCESSIVE CONNECTOR STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED THEREFORE IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE IF ANY AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING

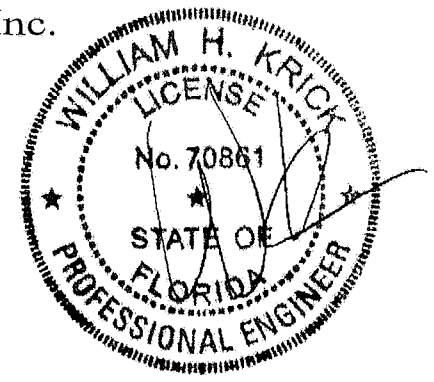


01/15/2014

TC LL	20.0 PSF	REF	R9114- 82924
TC DL	7.0 PSF	DATE	01/15/14
BC DL	10.0 PSF	DRW	HCUSR9114 14015002
BC LL	0 0 PSF	HC-ENG	WHK/WHK
TOT LD	37 0 PSF	SEQN-	5139
DUR.FAC	1.25		
SPACING	24.0"	JREF-	1V329114Z02

ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID 1V329114Z0215110638



Truss Fabricator	**Anderson Truss Company**
Job Identification	**REPAIR / 13-281 -H9 -BRYAN ZE (REPAIR / 13-281-)**
Truss Count	**1**
Model Code	**Florida Building Code 2010**
Truss Criteria	**FBC2010Res/TPI-2007(STD)**
Engineering Software	**Alpine Software,Version 13.02.**
Structural Engineer of Record	**The identity of the structural EOR did not exist as of**
Address	**the seal date per section 61G15-31.003(5a) of the FAC**
Minimum Design Loads	**Roof - 37.0 PSF @ 1.25 Duration**
	Floor - N/A
	Wind - 120 MPH ASCE 7-10 -Closed

01/15/2014

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: -

#	Ref	Description	Drawing#	Date
1	82924	--H9 Jack Scab	14015002	01/15/14

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

(REPAIR / 13-281 -H9 -BRYAN ZE - H9 Jack Scab)

REPAIR TO CHANGE EXTERIOR GEOMETRY OF TRUSS SHOWN BELOW

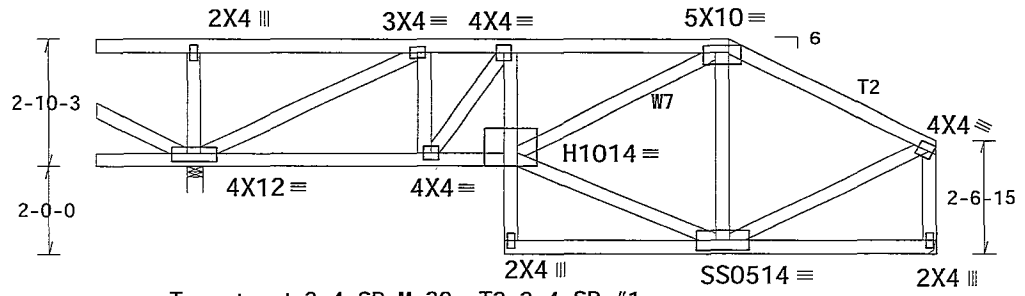
FIELD REPAIR MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS

REFER TO DRAWING HCUSR9114 13326028 FOR LUMBER, PLATES AND OTHER DATA NOT GIVEN HERE

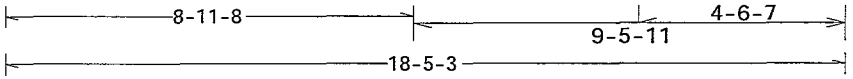
NOTE PRIOR TO AND DURING THE REPAIR OPPERATION, THIS TRUSS AND ANY SUPPORTED SPANS MUST BE TEMPORARILY BRACED AND SHORED THE DESIGN AND POSITIONING OF THIS BRACING AND SHORING TO BE DESIGNED BY OTHERS

+ USE A SHARP METAL CUTTING SAW BLADE TO CAREFULLY REMOVE UNWANTED MATERIAL FROM THE TRUSS AS SHOWN DASHED REMAINING PORTIONS OF TRUSS MUST BE FREE FROM DAMAGE

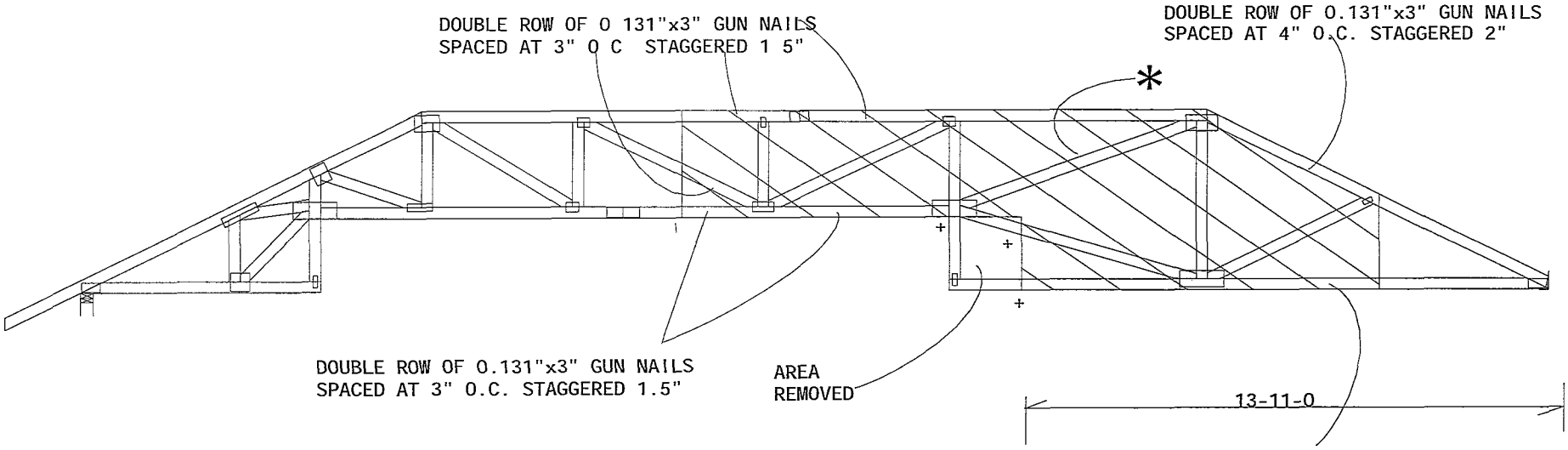
* ONE (1) JACK SCAB CHORDS AND WEBS AS SHOWN IN DETAIL ONE (1) JACK SCAB REQUIRED ATTACH JACK SCAB TO ONE FACE OF TRUSS WITH A DOUBLE ROW OF 0 131"x3" GUN NAILS SPACED AT 24" O C STAGGERED 12" THROUGHOUT MATCHING MEMBERS, UNLESS OTHERWISE NOTED REFER TO DRAWING CNNAILSP0109 FOR ADDITIONAL NAIL SPACING INFORMATION



Top chord 2x4 SP M-30 :T2 2x4 SP #1:
Bot chord 2x4 SP #1
Webs 2x4 SP #3 :W7 2x4 SP #2 N:



* 18-5-3 Jack Scab Detail



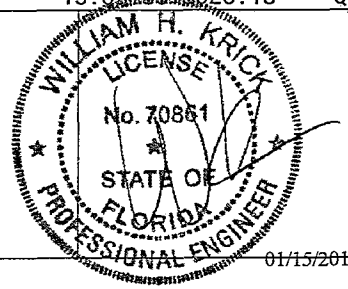
PLT TYP 20 Gauge HS,18 Gauge HS, Wave Design Crit: FBC2010Res/TPI-2007(STD) FT/RT=10%(0%)/0(0) 13.02.00.0926.18 QTY:0 FL/-/3/-/-/R/- Scale =.25"/Ft.

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

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR IN SOME CASES THE PRUDENT SOLUTION IS TO SCRAP THE DAMAGED TRUSSES AND REBUILD INTERNAL WOOD FIBER DAMAGE AND EXCESSIVE CONNECTOR STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED THEREFORE IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE IF ANY AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING



01/15/2014

TC LL	20.0 PSF	REF	R9114- 82924
TC DL	7.0 PSF	DATE	01/15/14
BC DL	10.0 PSF	DRW	HCUSR9114 14015002
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	37.0 PSF	SEQN-	5139
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V329114Z02