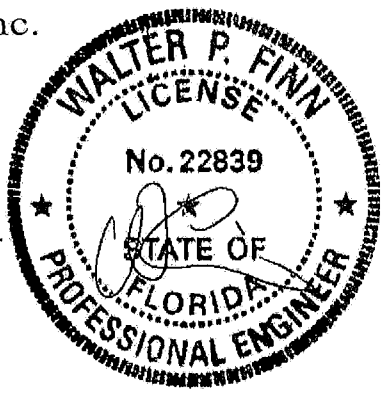
ITW Building Components Group, Inc.

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 1V4M487-Z0112132947



Truss Fabricator	Anderson Truss Company
Job Identification	14-036--Fill in later /Boardman Residence -- Lake City, FL
Truss Count	29
Model Code	Florida Building Code 2010
Truss Criteria	FBC2010Res/TPI-2007(STD)
Engineering Software	Alpine Software,Versions 12.03, 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

03/12/2014

Notes

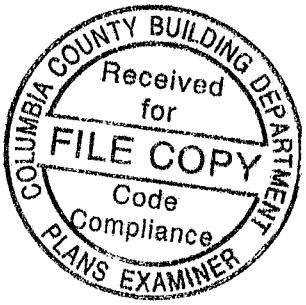
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown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

Details: DEFLCAMB-BRCLBSUB-

Walter P Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	22061	--A1 23'8" Common	14071001	03/12/14
2	22062	--A2 23'8" Common	14071002	03/12/14
3	22063	--A3 23'8" Common	14071003	03/12/14
4	22064	--A4 23'8" Common	14071004	03/12/14
5	22065	--A5 23'8" Common	14071005	03/12/14
6	22066	--A6 23'8" Common	14071006	03/12/14
7	22067	--A7 23'8" Common	14071007	03/12/14
8	22068	--A8 23'8" Common	14071008	03/12/14
9	22069	--A9 23'8" Common	14071009	03/12/14
10	22070	-AG 23'8" Common	14071024	03/12/14
11	22071	--B1 27' Common	14071010	03/12/14
12	22072	--B2 27' Common	14071011	03/12/14
13	22073	-C1 29'8"12 Comm	14071012	03/12/14
14	22074	-C2 29'8"12 Comm	14071013	03/12/14
15	22075	--CJ1 1' Jack	14071014	03/12/14
16	22076	--CJ1A 1' Jack	14071015	03/12/14
17	22077	--CJ3 3' Jack	14071016	03/12/14
18	22078	--CJ3A 3' Jack	14071017	03/12/14
19	22079	--CJ5 5' Jack	14071018	03/12/14
20	22080	--CJ5A 5' Jack	14071029	03/12/14
21	22081	-EJ6 6'10"8 End J	14071019	03/12/14
22	22082	--EJ7 7' End Jack	14071020	03/12/14
23	22083	-H7 27' Stepdown	14071025	03/12/14
24	22084	-H9 27' Stepdown	14071021	03/12/14
25	22085	-H11 27' Stepdown	14071022	03/12/14
26	22086	-H13 27' Stepdown	14071023	03/12/14
27	22087	-HJ7 9'8"11 Hip J	14071026	03/12/14
28	22088	-HJ7A 9'10"13 Hip	14071027	03/12/14
29	22089	-HJ7B 9'10"13 Hip	14071028	03/12/14



ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
 Document ID 1V4M487-Z0112132947

Truss Fabricator	**Anderson Truss Company**
Job Identification	**14-036--Fill in later /Boardman Residence -- 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, 13.02.**
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**

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

03/12/2014

-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	22080	CJ5A 5' Jack	14071029	03/12/14

ALPINE

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A1 23 8 Common)

Top chord 2x6 SP SS-13B T3 2x4 SP 2850f-2 3E
Bot chord 2x10 SP SS-13B
Webs 2x4 SP #3-13B W2 2x4 SP #2-13B

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

Left 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

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

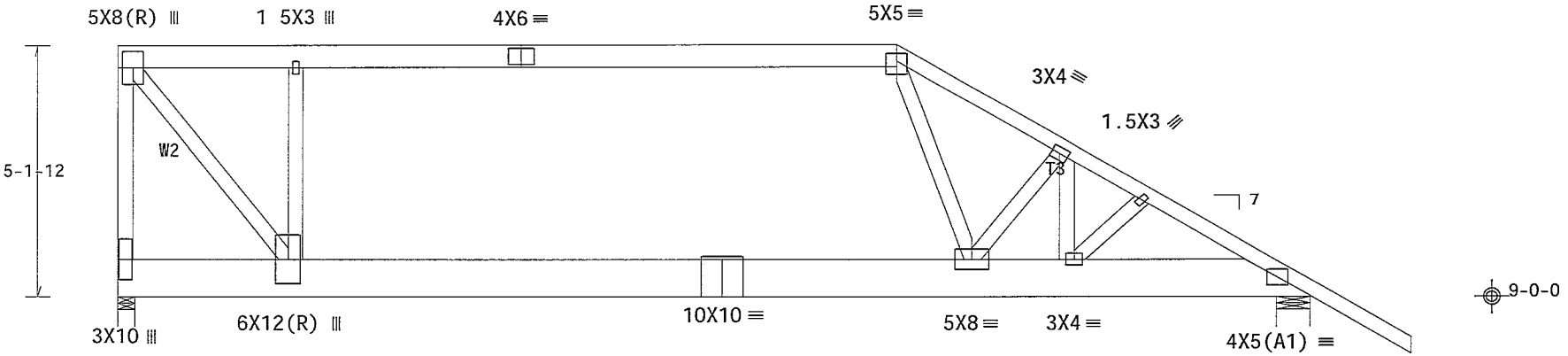
Wind loads and reactions based on MWFRS with additional C&C member design

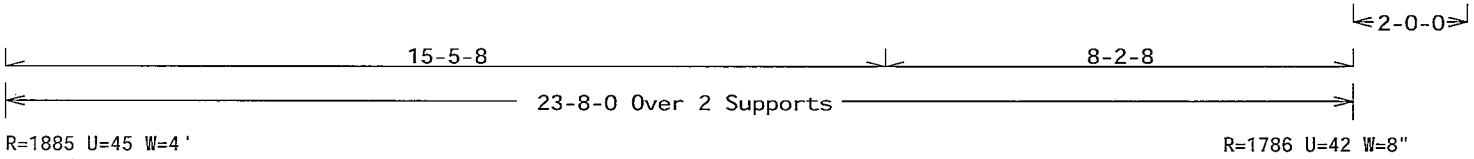
Max JT VERT DEFL LL 0 18" DL 0 24" See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf, DL = 10 00 psf, from 3-8-0 to 16-8-0

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 QTY:1 FL/-/4/-/-/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 in fabr cat ng handl ng shipping nstalling and brac ng Refer to and follow the latest ed tion of BCSI (Bu ld ng 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 sheathing and bottom chord shall have a properly attached rig 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 design any failure to bu ld 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 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 l st ng th s draw ng nd cates acceptance of profess onal engineering responsib l ty solely for the design shown The su tab l ity and use of this des gn for any structure is the responsibil ty of the Bu lding 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
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22061
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071001
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD.	37.0 PSF	SEQN-	342648
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A2 23 8 Common)

Top chord 2x4 SP M-30
Bot chord 2x10 SP SS-13B
Webs 2x4 SP #3-13B W2 2x4 SP #2-13B
W3 2x4 SP 2850f-2 3E

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

Left end vertical not exposed to wind pressure

Max JT VERT DEFL LL 0 32 DL 0 43 See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf DL = 10 00 psf from 3-8-0 to 16-8-0

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

Calculated horizontal deflection is 0 15 due to live load and 0 20 due to dead load

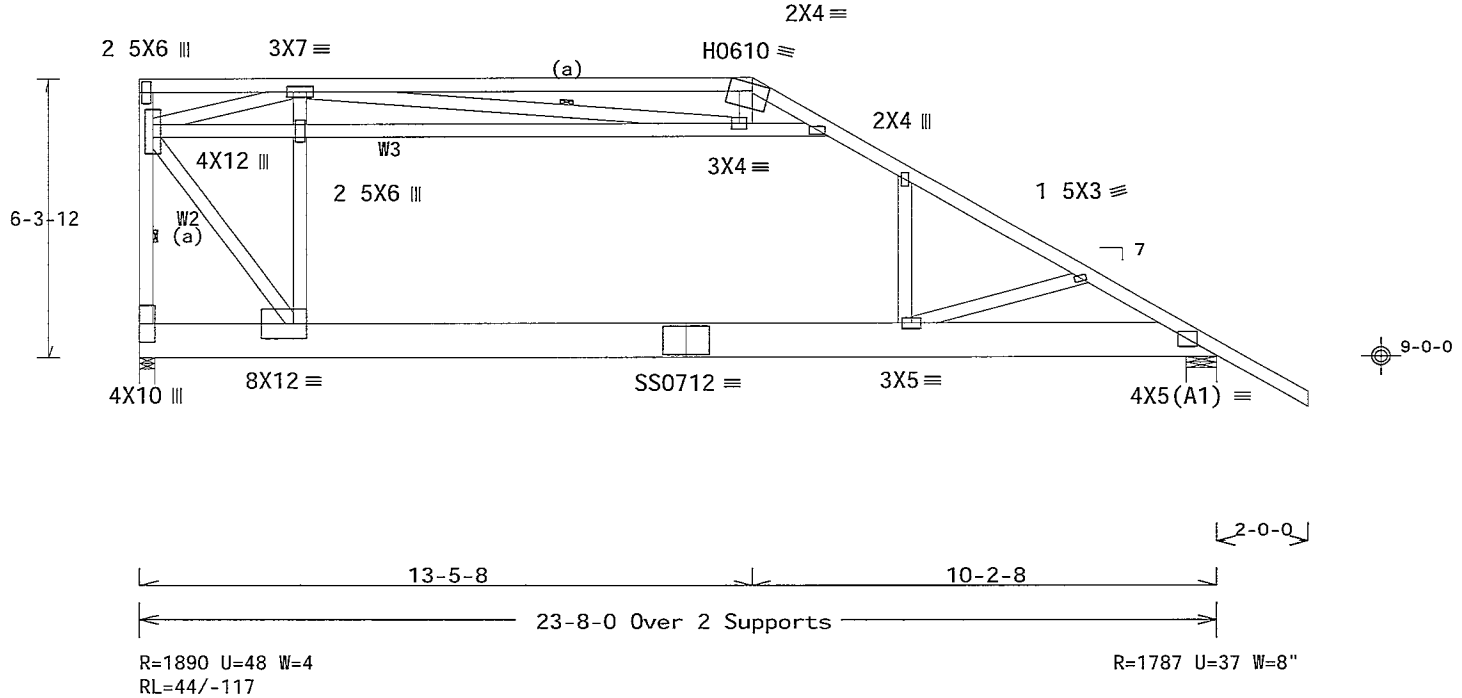
(a) Continuous lateral restraint equally spaced on member

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

Collar-tie braced with continuous lateral bracing at 24 OC or rigid ceiling

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 8:26:43 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

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ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from this des n any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handling 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 Jo nt Deta is unless noted otherwise Refer to drawings 160A-Z for standard plate pos tions A seal on this draw ng or cover page l sting th s drawing nd cates acceptance of professional engineering respons bil ty solely for the design shown The su tability and use of this design for any structure is the respons b l ity 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
03/12/2014

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- 22062
DATE	03/12/14
DRW	HCUSR9114 14071002
HC-ENG	JB/WPF
SEQN-	342625
JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A3 23'8 Common)

Top chord 2x4 SP M-30 T1 2x4 SP #1-13B
Bot chord 2x10 SP SS-13B
Webs 2x4 SP #3-13B W1 2x4 SP M-30
W2 2x4 SP #2-13B W3 2x4 SP 2850f-2 3E

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

Left end vertical not exposed to wind pressure

Max JT VERT DEFL LL 0 32 DL 0 44 See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

BC attic room floor loading LL = 40 00 psf DL = 10 00 psf, from 3-8-0 to 16-8-0

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

Calculated horizontal deflection is 0 14 due to live load and 0 19 due to dead load

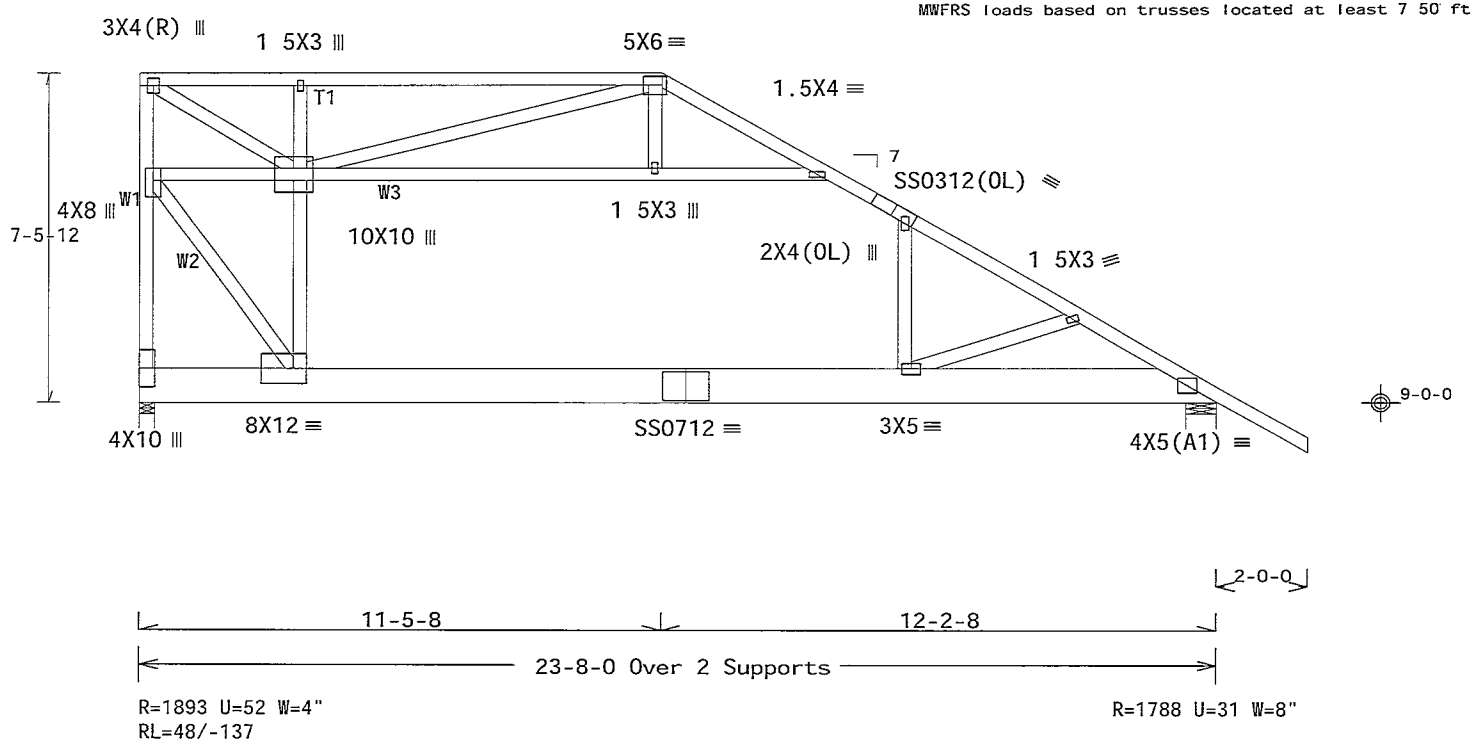
In lieu of structural panels use purlins to brace all flat TC @ 24 OC

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

Collar-tie braced with continuous lateral bracing at 24" OC or rigid ceiling

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 18 Gauge HS,Wave FT/RT=10%(0%)/0(0) 12.03.04 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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Orlando FL, 32837
FL COA #0 278

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03/12/2014

TC LL	20.0 PSF	REF	R9114- 22063
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071003
BC LL	0 0 PSF	HC-ENG	JB/WPF
TOT.LD	37.0 PSF	SEQN-	342596
DUR FAC.	1.25		
SPACING	24 0"	JREF-	1V4M487_Z01

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A4 23 8 Common)

Top chord 2x4 SP #1-13B T3 2x4 SP 2850f-2 3E
T4 2x4 SP M-30
Bot chord 2x10 SP SS-13B
Webs 2x4 SP #3-13B W2 2x4 SP #2-13B
W3 2x4 SP 2850f-2 3E

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

Left end vertical not exposed to wind pressure

(a) Continuous lateral restraint equally spaced on member

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

Collar-tie braced with continuous lateral bracing at 24" OC or rigid ceiling

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 15" due to live load and 0 22" due to dead load

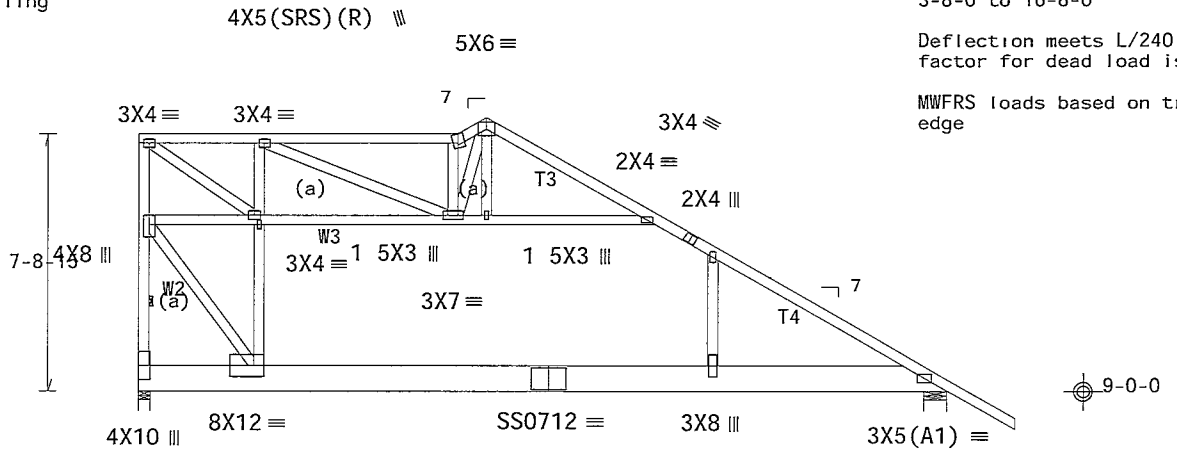
Max JT VERT DEFL LL 0 35" DL 0 47" See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

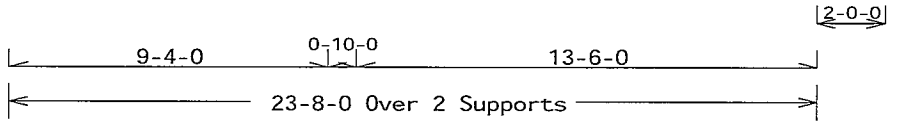
Bottom chord checked for 10 00 psf non-concurrent live load

BC attic room floor loading LL = 40 00 psf, DL = 10 00 psf; from 3-8-0 to 16-8-0

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

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





R=1890 U=21 W=4"
RL=56/-101

R=1787 U=0 W=8"

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP 18 Gauge HS,Wave FT/RT=10%(0%)/0(0) 12.03.04 [illegible] QTY·1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

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03/12/2014

TC LL	20.0 PSF	REF	R9114- 22064
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071004
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD	37 0 PSF	SEQN-	22938
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City FL - A5 23'8 Common)

Top chord 2x4 SP #1-13B T3 T4 2x4 SP M-30
Bot chord 2x10 SP SS-13B
Webs 2x4 SP #3-13B W2 2x4 SP #2-13B
W3 2x4 SP 2850f-2 3E

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

Left end vertical not exposed to wind pressure

Max JT VERT DEFL LL 0 37 DL 0 49 See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf DL = 10 00 psf from 3-8-0 to 16-8-0

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

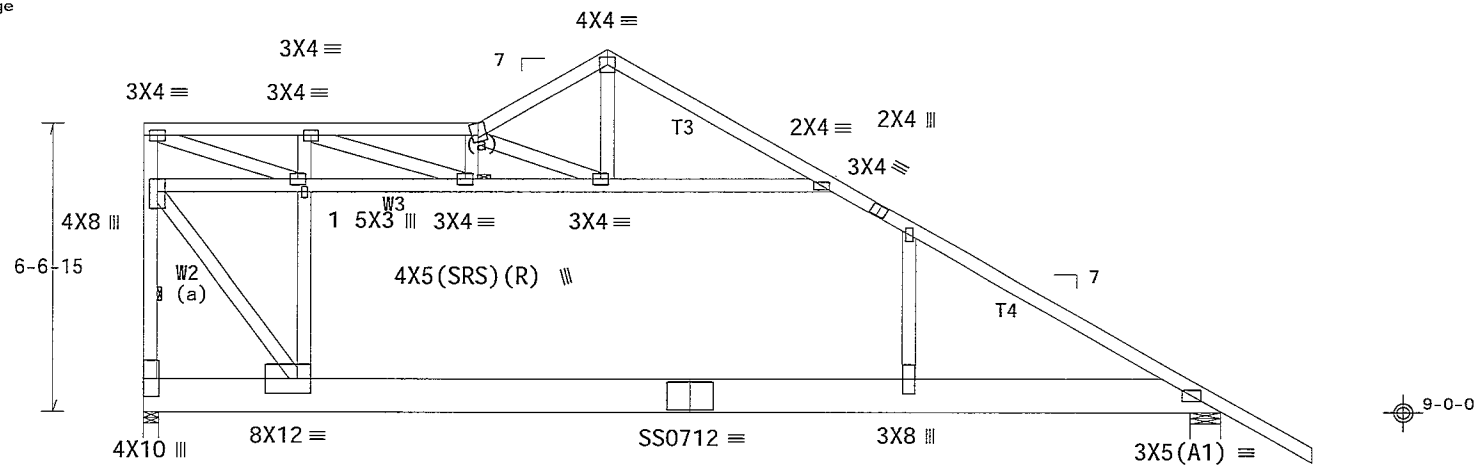
Calculated horizontal deflection is 0 16 due to live load and 0 23 due to dead load

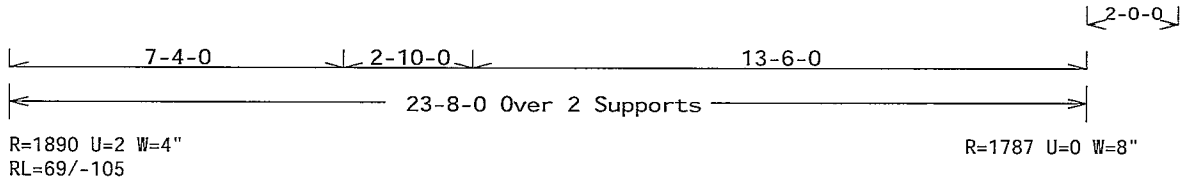
(a) Continuous lateral restraint equally spaced on member

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

Collar-tie braced with continuous lateral bracing at 24 OC or rigid ceiling

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





R=1890 U=2 W=4"
RL=69/-105

R=1787 U=0 W=8"

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP 18 Gauge HS,Wave FT/RT=10%(0%)/0(0) 12 03.04 [illegible] QTY.1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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FL COA #0 278

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ITW Build ng Components Group Inc (ITWBCG) shall not be respons ble for any dev ation from this desig any fa lure to build 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 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 nd cates acceptance of profess onal eng neer ng respons b l ty solely for the des gn shown The su tab l ty and use of th s des gn for any structure s the respons bil ty 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 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
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22065
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071005
BC LL	0 0 PSF	HC-ENG	JB/WPF
TOT LD	37 0 PSF	SEQN-	23006
DUR.FAC	1 25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A6 23 8 Common)

Top chord 2x4 SP #1-13B T3 2x4 SP 2850f-2 3E
T4 2x4 SP M-30
Bot chord 2x10 SP SS-13B B2 2x10 SP #1 Dense-13B
Webs 2x4 SP #3-13B W1 2x4 SP #2-13B
W3 2x4 SP M-30

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

Left end vertical not exposed to wind pressure

(a) Continuous lateral restraint equally spaced on member

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

Collar-tie braced with continuous lateral bracing at 24" OC or rigid ceiling

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

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

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

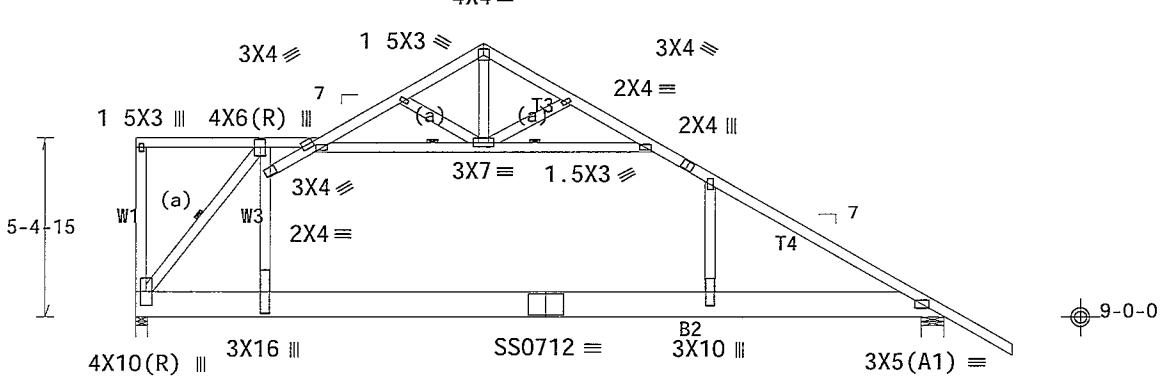
Calculated horizontal deflection is 0 15" due to live load and 0 21" due to dead load

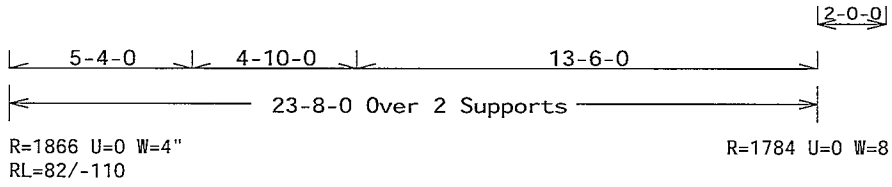
Max JT VERT DEFL LL 0 33" DL 0 45' See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf, DL = 10 00 psf, from 3-10-15 to 16-8-0

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





R=1866 U=0 W=4"
RL=82/-110

R=1784 U=0 W=8

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP 18 Gauge HS,Wave FT/RT=10%(0%)/0(0) 12.03.04 [illegible]13 QTY·1 FL/-/4/-/-/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 pp ng nstalling and bracing 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 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 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 ld the truss in conformance with ANSI/TPI 1 or for handl ng sh pp ng nstallat on brac ng of trusses Apply plates to each face of truss and posit on as shown above and on the Jo nt Deta ls 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 indicates acceptance of professional eng neer ng respons bility 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
03/12/2014

TC LL	20 0 PSF	REF	R9114- 22066
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10 0 PSF	DRW	HCUSR9114 14071006
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD	37 0 PSF	SEQN-	341943
DUR FAC	1.25		
SPACING	24 0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A7 23'8 Common)

Top chord 2x4 SP 2850f-2 3E T1 2x4 SP #1-13B
T4 2x4 SP M-30
Bot chord 2x10 SP #1 Dense-13B
Webs 2x4 SP #3-13B W4 2x4 SP #2-13B

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

Left end vertical not exposed to wind pressure

Max JT VERT DEFL LL 0 23 DL 0 36 See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf DL = 10 00 psf from 3-7-7 to 16-8-0

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

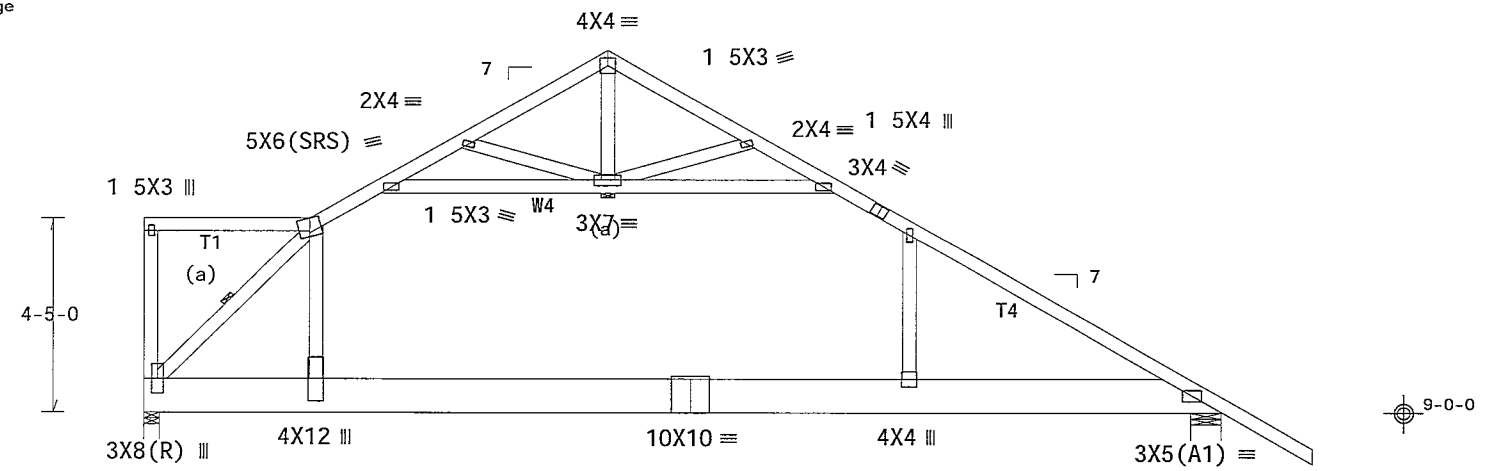
Calculated horizontal deflection is 0 10 due to live load and 0 17 due to dead load

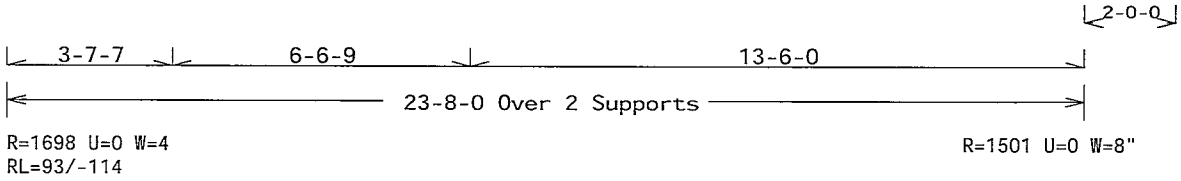
(a) Continuous lateral restraint equally spaced on member

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

Collar-tie braced with continuous lateral bracing at 24 OC or rigid ceiling

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





R=1698 U=0 W=4
RL=93/-114

R=1501 U=0 W=8"

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 [illegible] QTY.1 FL/-/4/-/-/R/- Scale = 25"/Ft.

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22067
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071007
BC LL	0 0 PSF	HC-ENG	JB/WPF
TOT LD	37 0 PSF	SEQN-	341909
DUR.FAC.	1.25		
SPACING	24 0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A8 23 8" Common)

Top chord 2x4 SP 2850f-2 3E T4 2x4 SP M-30
Bot chord 2x10 SP 2400f-2 0E B2 2x10 SP SS-13B
Webs 2x4 SP #3-13B W6 2x4 SP #1-13B

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

Left end vertical not exposed to wind pressure

Max JT VERT DEFL LL 0 35 DL 0 46 See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

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

Collar-tie braced with continuous lateral bracing at 24 OC or rigid ceiling

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

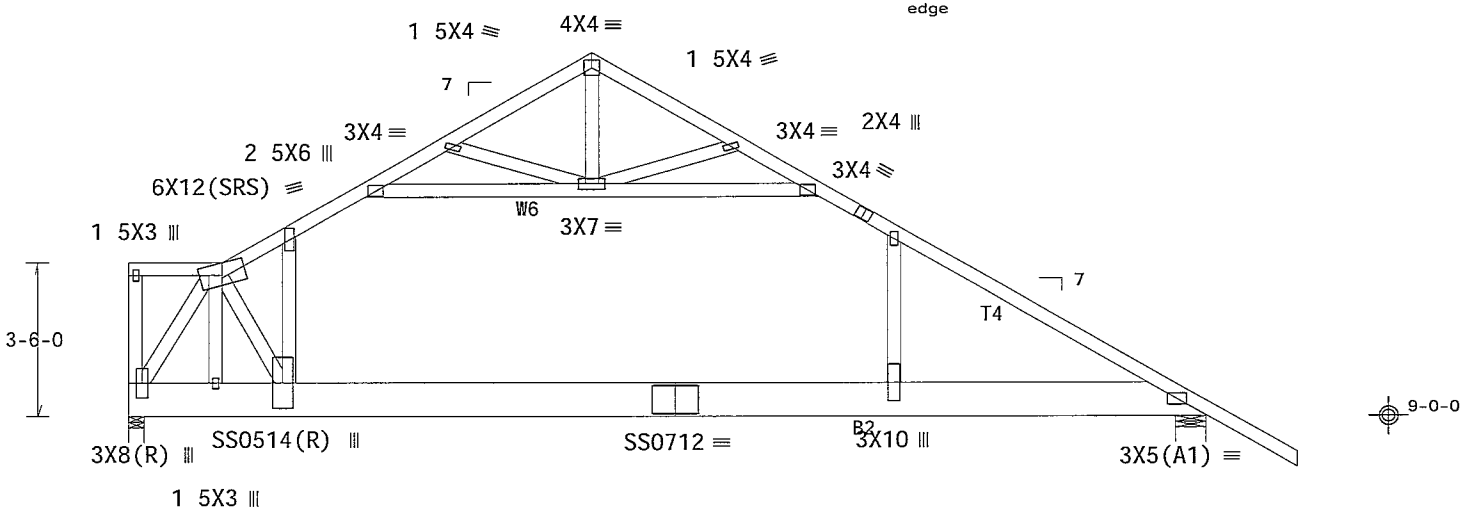
Calculated horizontal deflection is 0 15 due to live load and 0 22 due to dead load

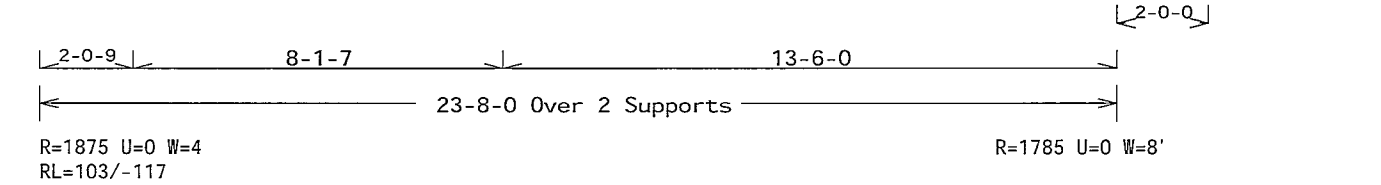
In lieu of structural panels use purlins to brace all flat TC @ 24 OC

BC attic room floor loading LL = 40 00 psf DL = 10 00 psf from 3-8-0 to 16-8-0

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

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





R=1875 U=0 W=4
RL=103/-117

R=1785 U=0 W=8'

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP 18 Gauge HS,Wave FT/RT=10%(0%)/0(0) 12 03 04 [illegible] QTY.1 FL/-/4/-/-/R/- Scale =.25"/Ft

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20 0 PSF	REF	R9114- 22068
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10 0 PSF	DRW	HCUSR9114 14071008
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD	37 0 PSF	SEQN-	341886
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A9 23 8 Common)

Top chord 2x4 SP 2850f-2 3E T3 2x4 SP M-30
Bot chord 2x10 SP SS-13B
Webs 2x4 SP #3-13B W4 2x4 SP #2-13B

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

Left end vertical not exposed to wind pressure

Collar-tie braced with continuous lateral bracing at 24' OC or rigid ceiling

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

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

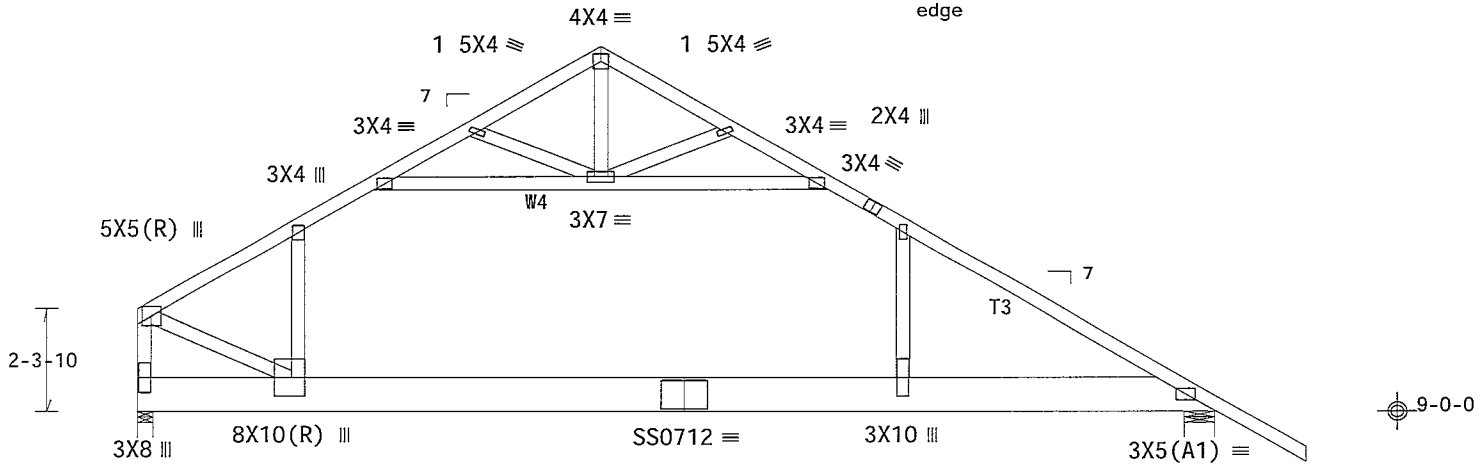
Wind loads and reactions based on MWFRS with additional C&C member design

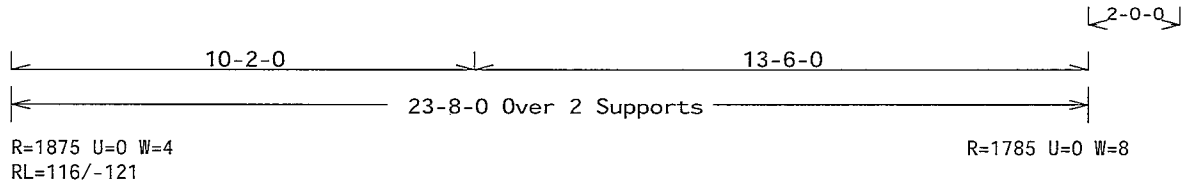
Calculated horizontal deflection is 0 17" due to live load and 0 24" due to dead load

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

BC attic room floor loading LL = 40 00 psf, DL = 10 00 psf; from 3-8-0 to 16-8-0

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





R=1875 U=0 W=4
RL=116/-121

R=1785 U=0 W=8

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP 18 Gauge HS,Wave FT/RT=10%(0%)/0(0) 12 03 04 [illegible] 14 QTY 3 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20 0 PSF	REF	R9114- 22069
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071009
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD	37.0 PSF	SEQN-	23136
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City FL - AG 23 8" Common Girder)

Top chord 2x4 SP #1-13B T3 2x4 SP M-30
Bot chord 2x4 SP #1-13B B2 2x4 SP M-30
Webs 2x4 SP #3-13B W6 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

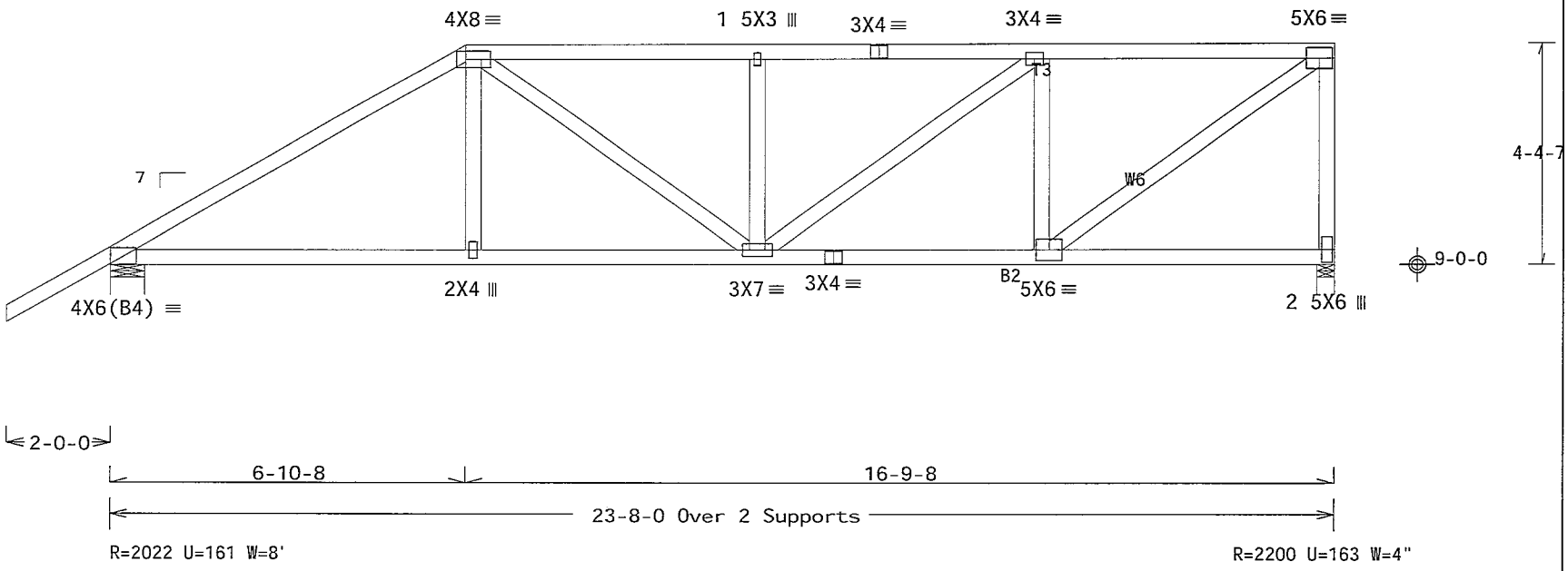
In lieu of structural panels use purlins to brace all flat TC @ 24 OC

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 6 88
TC- From 28 plf at 6 88 to 28 plf at 23 67
BC- From 5 plf at -2 00 to 5 plf at 0 00
BC- From 20 plf at 0 00 to 20 plf at 6 91
BC- From 10 plf at 6 91 to 10 plf at 23 67
TC- 236 11 lb Conc Load at 6 91
TC- 161 91 lb Conc Load at 8 94,10 94,12 94,14 94 16 94,18 94,20 94,22 94
BC- 415 49 lb Conc Load at 6 91
BC- 123 59 lb Conc Load at 8 94,10 94,12 94,14 94 16 94,18 94,20 94,22 94

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



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12 03 04 0326 14 | QTY.1 | FL/-/4/-/-/R/- | Scale =.3125"/Ft.

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

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

03/12/2014

TC LL	20.0 PSF	REF	R9114- 22070
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071024
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	23145
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - B1 27 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

Left cantilever is exposed to wind

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

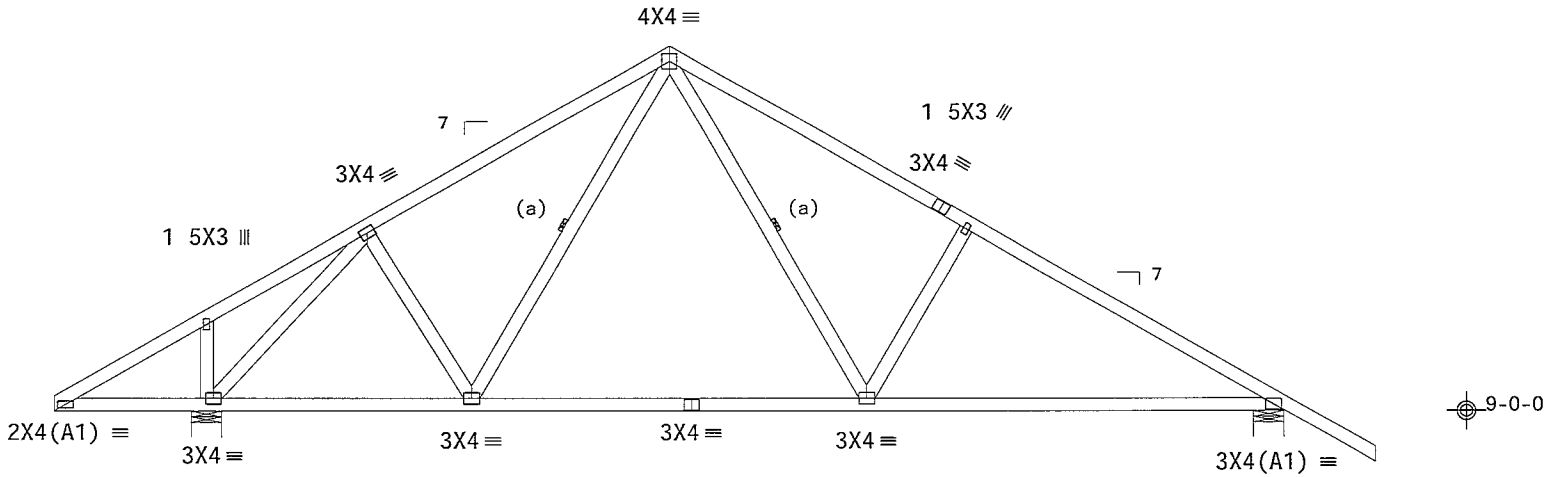
MWFRS loads based on trusses located at least 30 00 ft from roof edge

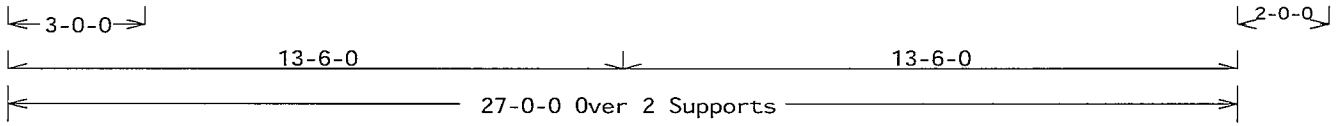
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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

(a) Continuous lateral restraint equally spaced on member

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





R=1170 U=0 W=8
RL=138/-129

R=1020 U=0 W=8'

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 0326 13 QTY·1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

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Trusses requ re extreme care in fabr cating handl ng sh pp ng nstalling and bracing Refer to an follow the latest ed t on of BCSI (Bu ld ng Component Safety Information by TPI and WTCA) for safety pract ces pr or to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ce l ng Locat ons shown for permanent lateral restraint 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 deviat on from this design any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installat on & brac ng 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 tions A seal on th draw ng or cover page l st ng this drawing ind cates acceptance of professional engineering responsibil ty solely for the design shown The su tab lity and use of this design for any structure is the responsibility 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 sbcindustry com ICC www iccsafe org

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

03/12/2014

TC LL	20.0 PSF	REF	R9114- 22071
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071010
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	342027
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - B2 27' 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

Left cantilever is exposed to wind

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

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

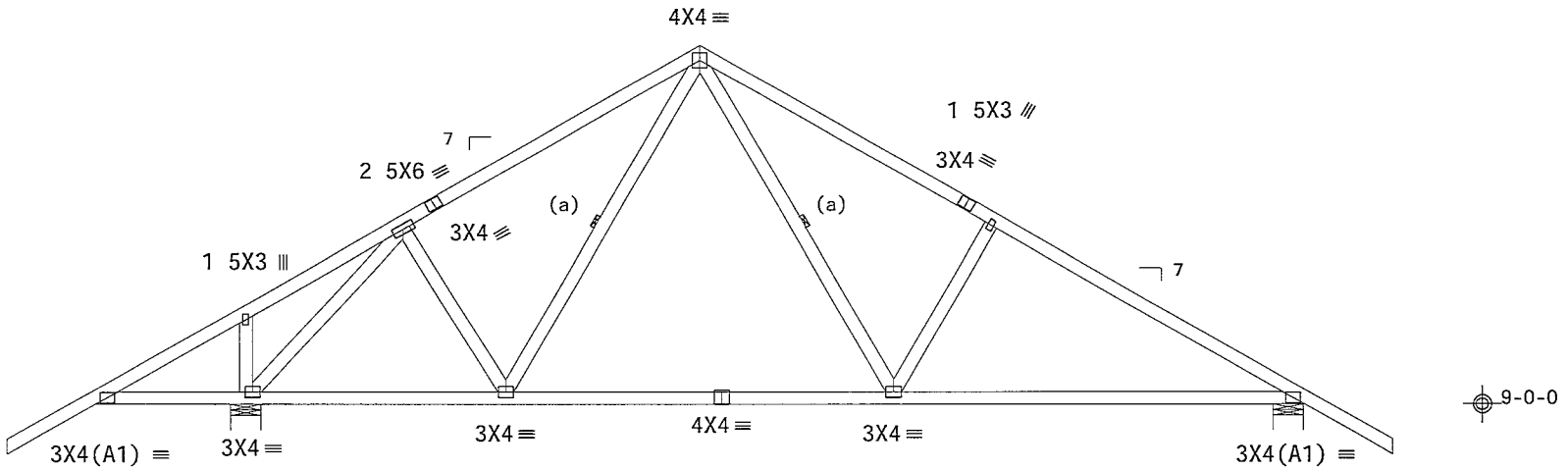
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

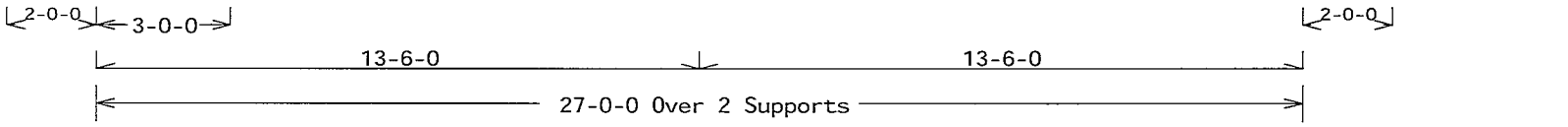
Wind loads and reactions based on MWFRS with additional C&C member design

(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





R=1415 U=0 W=8"
RL=151/-151

R=1088 U=0 W=8"

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12.03.04 0326 13 | QTY:11 FL/-/4/-/-/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

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ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design any failure to build the truss n conformance w th ANSI/TPI 1 or for handling shipping installation & brac ng of trusses Apply plates to each face of truss and posit 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 draw ng or cover page l st ng th s drawing nd cates 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 Bu lding 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 iccsafe org

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

03/12/2014

TC LL	20.0 PSF	REF	R9114- 22072
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071011
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD.	37.0 PSF	SEQN-	342023
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - C1 29'8"12 Common)

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

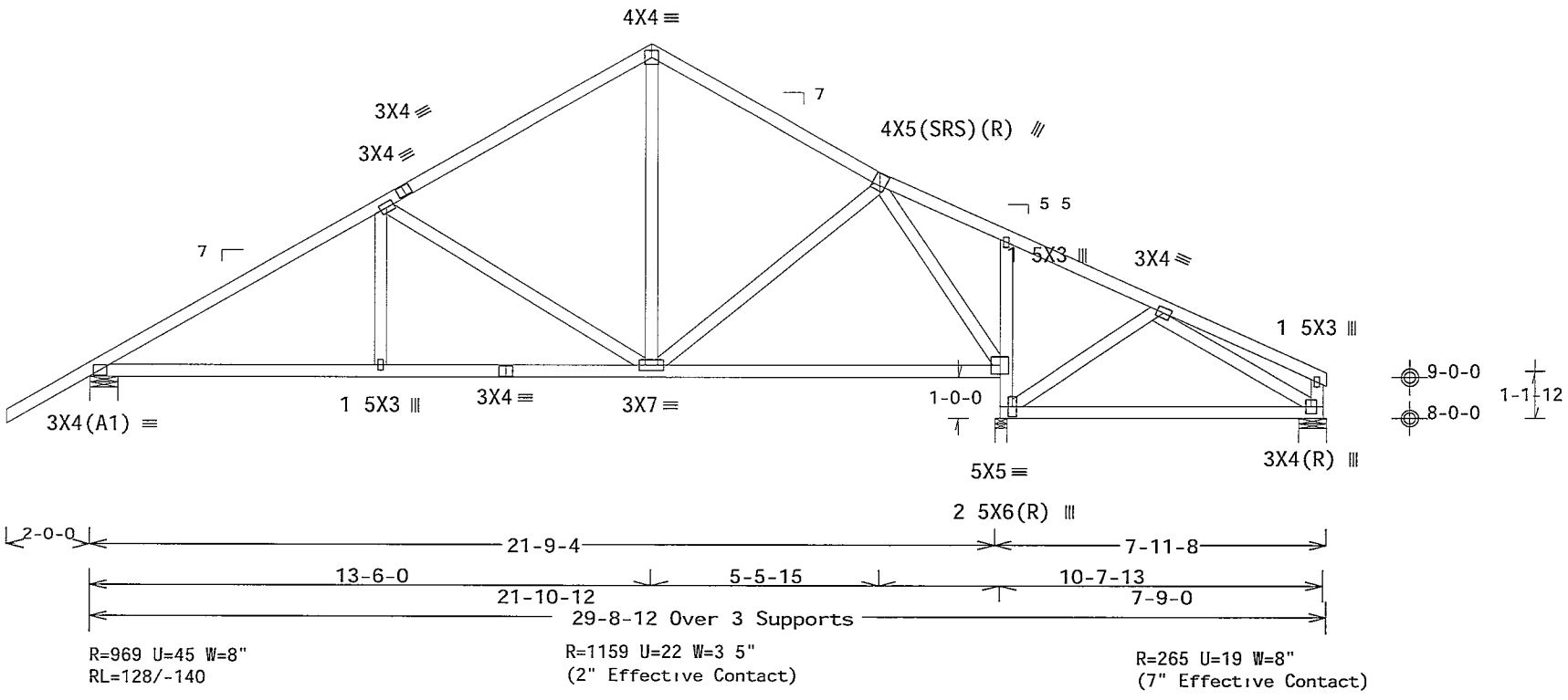
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

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

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

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



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12.03.04 0326 13 | QTY:2 | FL/-/4/-/-/R/- | Scale =.25"/Ft.

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

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ITW Bu lding Components Group Inc (ITWBCG) shall not be responsible for any deviation from this de gn any failure to build the trusses in conformance with ANSI/TPI 1 or for handl ng sh pp ng nstallatio 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 drawings 160A-Z for standard plate posit ons A seal on th drawing or cover page listing this drawing indicates 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 is the responsibility 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 tp nst org WTCA www sbc ndustry com ICC www ccsafe org

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

03/12/2014

TC LL	20.0 PSF	REF	R9114- 22073
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071012
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD.	37.0 PSF	SEQN-	342003
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - C2 29 8'12 Common)

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

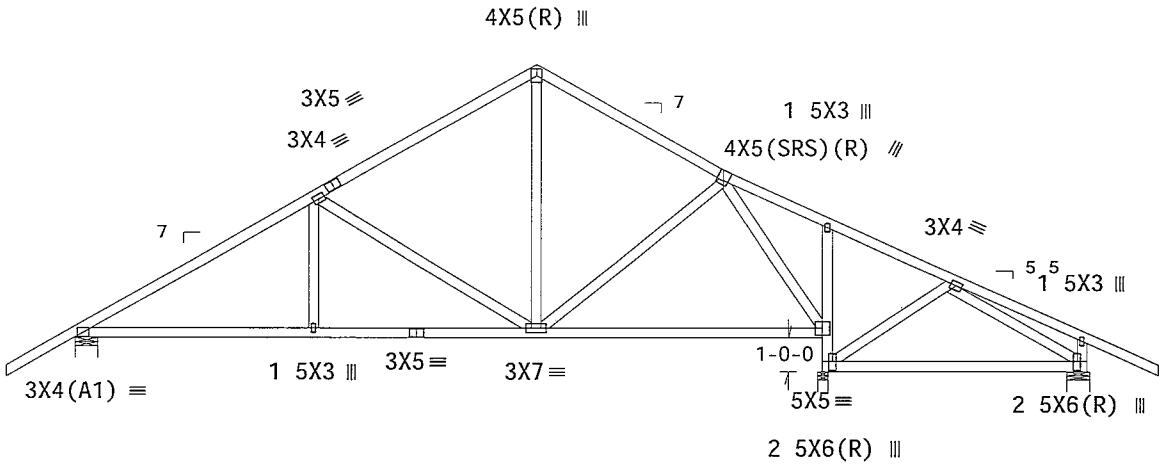
Lumber grades designated with '13B" use design values approved 1/30/2013 by ALSC

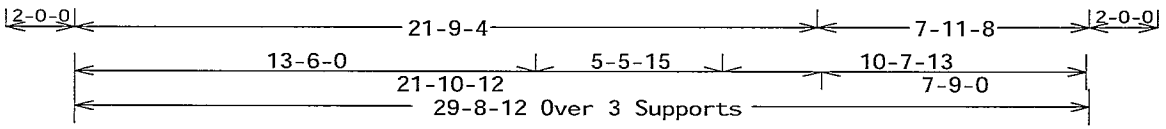
Bottom chord checked for 10 00 psf non-concurrent live load

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

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

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





R=969 U=47 W=8"
RL=145/-150

R=1142 U=9 W=3 5"
(2" Effective Contact)

R=401 U=47 W=8"
(7" Effective Contact)

Design Crit· FBC2010Res/TPI-2007(STD)

PLT TYP Wave | FT/RT=10%(0%)/0(0) | 12.03.04 [illegible] | QTY:3 | FL/-/4/-/-/R/- | Scale =.1875"/Ft.

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22074
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071013
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	341987
DUR.FAC.	1.25		
SPACING	24 0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- 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

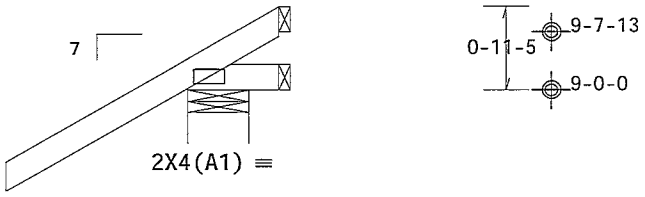
Bottom chord checked for 10 00 psf non-concurrent live load

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

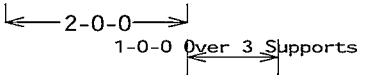
Wind loads and reactions based on MWFRS with additional C&C member design

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

R=-102 Rw=31 U=70



R=2 Rw=15 U=19



R=329 U=52 W=8"
RL=28/-24

Design Crit· FBC2010Res/TPI-2007(STD)

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

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

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ITW Bu ld ng Components Group Inc (ITWBCG) shal not be respons b e for any dev at on from th s des any failure 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 this drawing or cover page listing th s drawing nd cates acceptance of profess onal engineer ng respons b l ty solely for the des gn shown The suitability and use of this des gn for any structure is the respons bil ty 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 ccsafe org

WALTER P. TINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22075
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071014
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	342522
DUR.FAC	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - CJ1A 1 Jack)

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

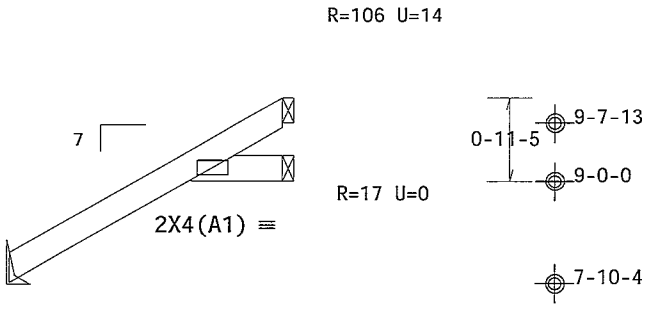
Lumber grades designated with 13B' use design values approved 1/30/2013 by ALSC

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

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

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

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



R=114 U=0
RL=33
H=H1

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03 04 [illegible] QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22076
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071015
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37 0 PSF	SEQN-	342668
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - CJ3 3 Jack)

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

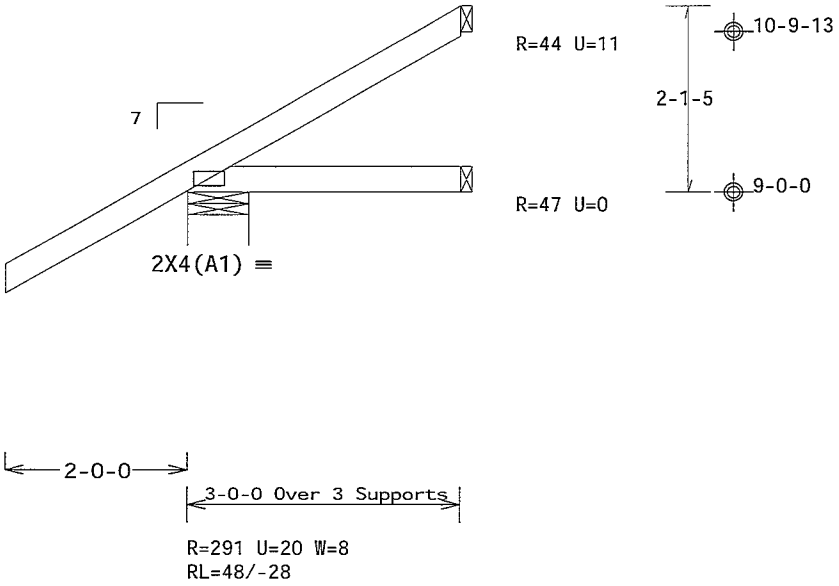
Lumber grades designated with '13B' use design values approved 1/30/2013 by ALSC

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

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 [illegible] QTY.5 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22077
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071016
BC LL	0 0 PSF	HC-ENG	JB/WPF
TOT LD	37.0 PSF	SEQN-	342536
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - CJ3A 3 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

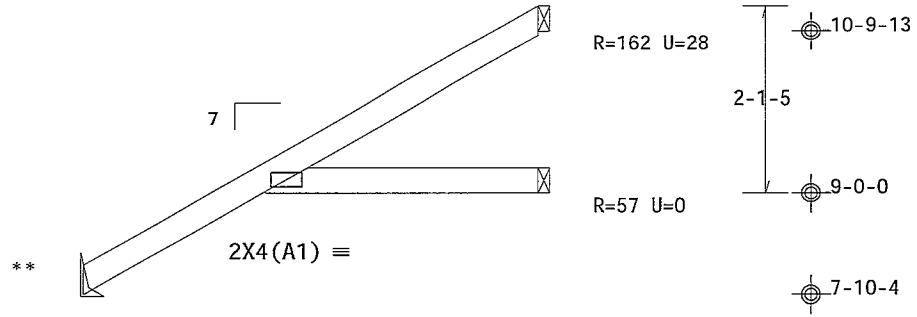
Bottom chord checked for 10 00 psf non-concurrent live load

** FASCIA BEAM DESIGNED AND FURNISHED BY OTHERS PROVIDE CONNECTION FOR REACTIONS SHOWN

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

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

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



5-0-0 Over 3 Supports

R=191 U=0
RL=52
H=H1

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03 04 QTY 1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22078
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071017
BC LL	0 0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	342672
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - CJ5 5 Jack)

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

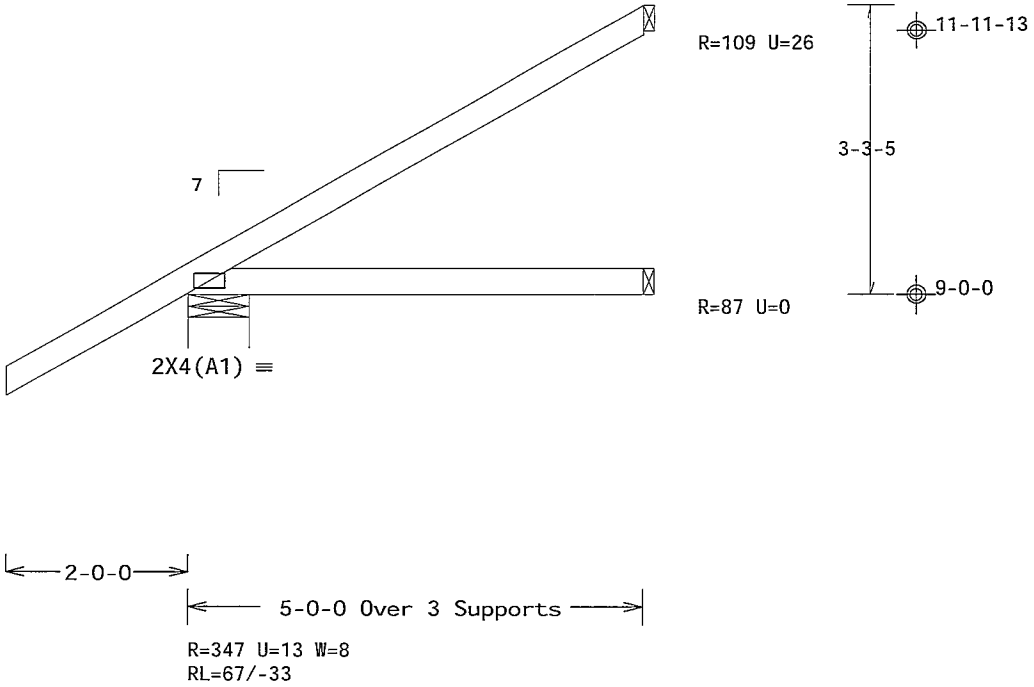
Lumber grades designated with 13B" use design values approved 1/30/2013 by ALSC

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

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

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

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



Design Crit· FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12.03 04 QTY:5 FL/-/4/-/-/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

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ITW Bu ld ng 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 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 Details unless noted otherwise Refer to drawings 160A-Z for standard plate pos t ons A seal on th s drawing or cover page listing this drawing indicates acceptance of profess onal engineer ng 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 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
03/12/2014

TC LL	20 0 PSF	REF	R9114- 22079
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071018
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	342528
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City FL - CJ5A 5 Jack)

Value Set 13B (Effective 6/1/2013)

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

Lumber value set "13B' uses design values approved 1/30/2013 by ALSC

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

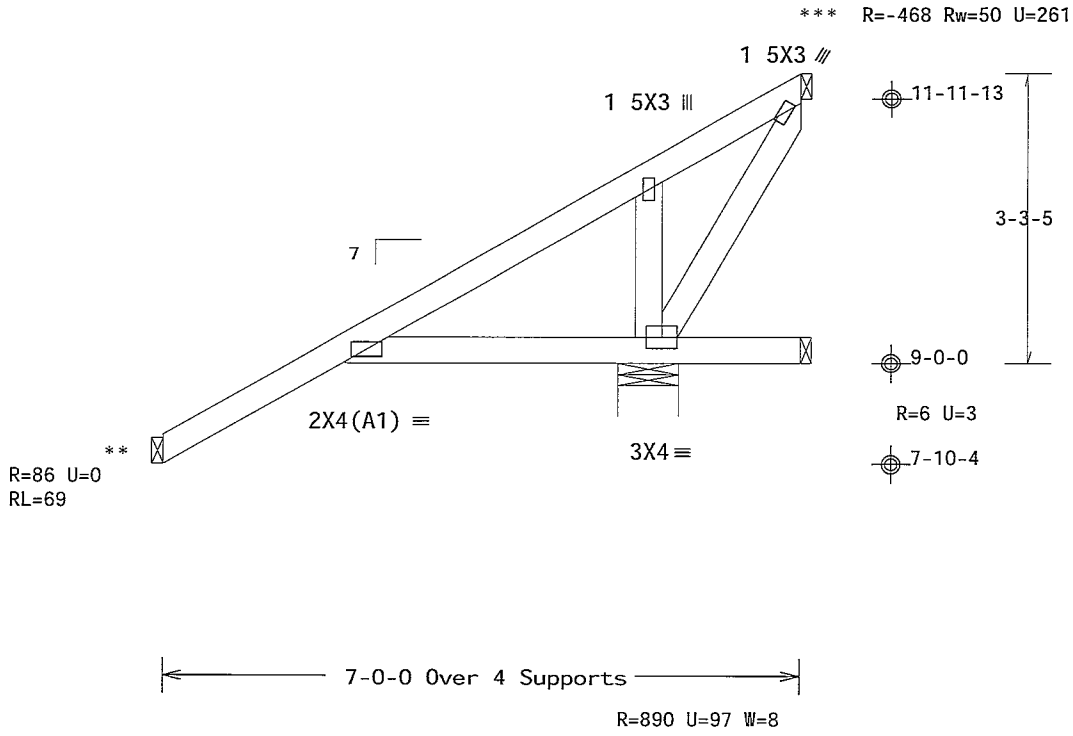
** FASCIA BEAM DESIGNED AND FURNISHED BY OTHERS PROVIDE CONNECTION FOR REACTIONS SHOWN

*** Negative reaction(s) of -468# 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 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

Shim all supports to solid bearing



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 13 02.07 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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ITW Build ng Components Group Inc (ITWBCG) shall not be respons ble for any deviation from th s desi any failure to build the truss in conformance w th ANSI/TPI 1 or for handling sh pping installation brac ng of trusses Apply plates to each face of truss and pos t on as shown above and on the Joint 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 l st ng th s draw ng nd cates acceptance of professional engineering responsib l ty solely for the design shown The su tab lity and use of this design for any structure is the responsib lity of the Bu ilding 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
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22080
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071029
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD	37.0 PSF	SEQN-	1354 REV
DUR.FAC.	1 25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - EJ6 6 10 8 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

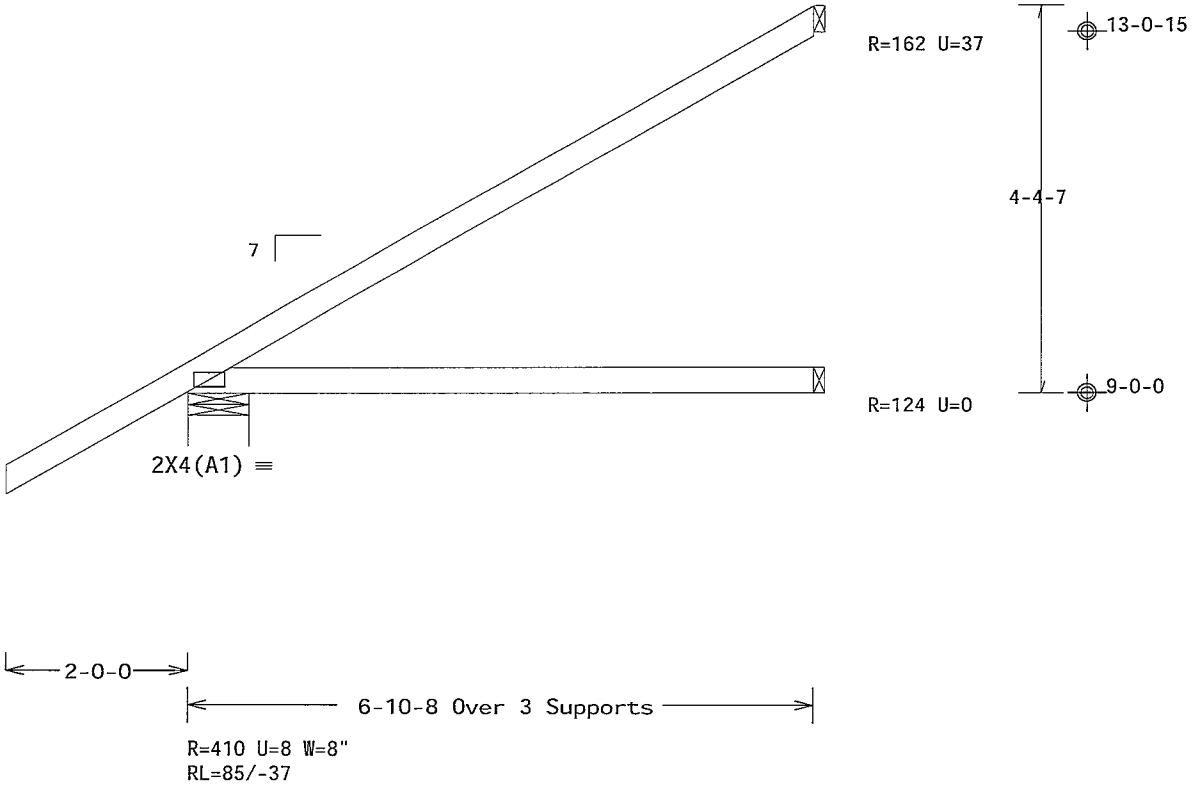
Bottom chord checked for 10 00 psf non-concurrent live load

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

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

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

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



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP Wave FT/RT=10%(0%)/0(0) 12 03.04 QTY:9 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviat on from th s des any failure to bu ld the truss in conformance with ANSI/TPI 1 or for handling sh pp ng nstallation brac ng 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 plate pos t ons A seal on this draw ng or cover page l st ng th s draw ng ind cates acceptance of professional eng neer ng responsib l ty solely for the design shown The su tability and use of this design for any structure s the responsib lity 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 sbc ndustry com ICC www iccsafe org

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22081
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071019
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD.	37.0 PSF	SEQN-	342514
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- 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

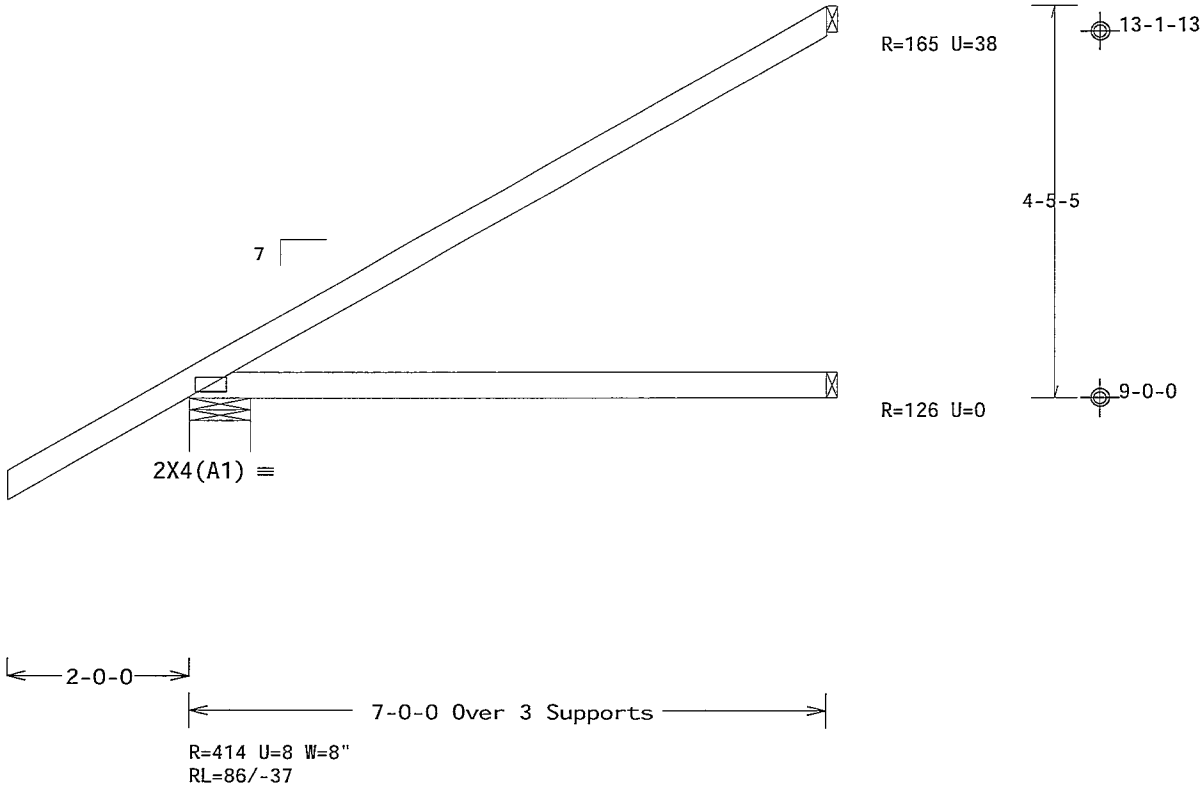
Bottom chord checked for 10 00 psf non-concurrent live load

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

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 [illegible] QTY·8 FL/-/4/-/-/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!
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Trusses require extreme care in fabricat ng handl ng sh pping installing 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 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 ceil ng Locations shown for permanent lateral restra nt of webs shall have bracing 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 th s des any fa lure to build 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 tion as shown above and on the Jo nt Deta ls unless noted otherwise Refer to drawings 160A-Z for standard plate posit ons A seal on th s drawing or cover page listing this drawing indicates 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 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
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22082
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071020
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD	37.0 PSF	SEQN-	342517
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - H7 27' Stepdown Hip Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP M-30 B2 2x4 SP #1-13B
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 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

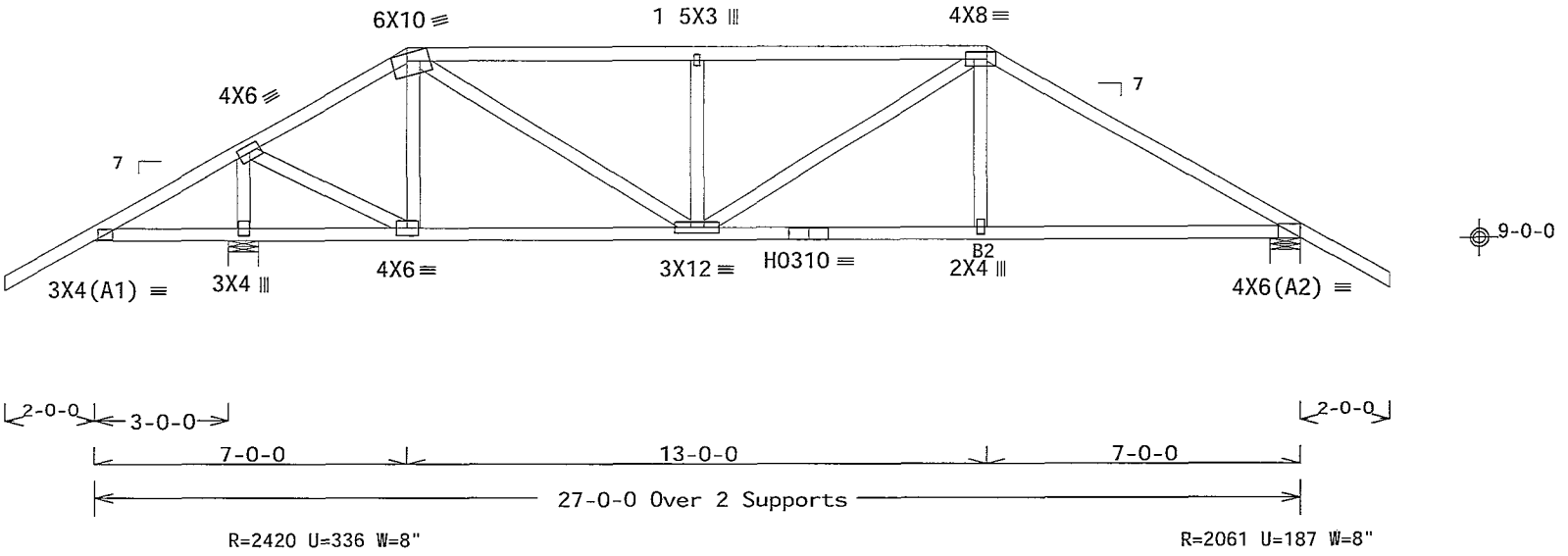
Left cantilever is exposed to wind

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

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 56 plf at -2 00 to 56 plf at 7 00
TC- From 28 plf at 7 00 to 28 plf at 20 00
TC- From 56 plf at 20 00 to 56 plf at 29 00
BC- From 5 plf at -2 00 to 5 plf at 0 00
BC- From 20 plf at 0 00 to 20 plf at 7 03
BC- From 10 plf at 7 03 to 10 plf at 19 97
BC- From 20 plf at 19 97 to 20 plf at 27 00
BC- From 5 plf at 27 00 to 5 plf at 29 00
TC- 195 25 lb Conc Load at 7 03
TC- 165 33 lb Conc Load at 9 06,11 06,13 06,13 94 15 94 17 94
TC- 232 75 lb Conc Load at 19 97
BC- 55 79 lb Conc Load at 7 03
BC- 125 99 lb Conc Load at 9 06,11 06,13 06,13 94 15 94,17 94
BC- 418 73 lb Conc Load at 19 97

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 20 Gauge HS,Wave | FT/RT=10%(0%)/0(0) | 12.03 04 | QTY:1 | FL/-/4/-/-/R/- | Scale =.25"/Ft

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

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WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

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- 22083
DATE	03/12/14
DRW	HCUSR9114 14071025
HC-ENG	JB/WPF
SEQN-	342007
JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - H9 27' 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

Left cantilever is exposed to wind

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

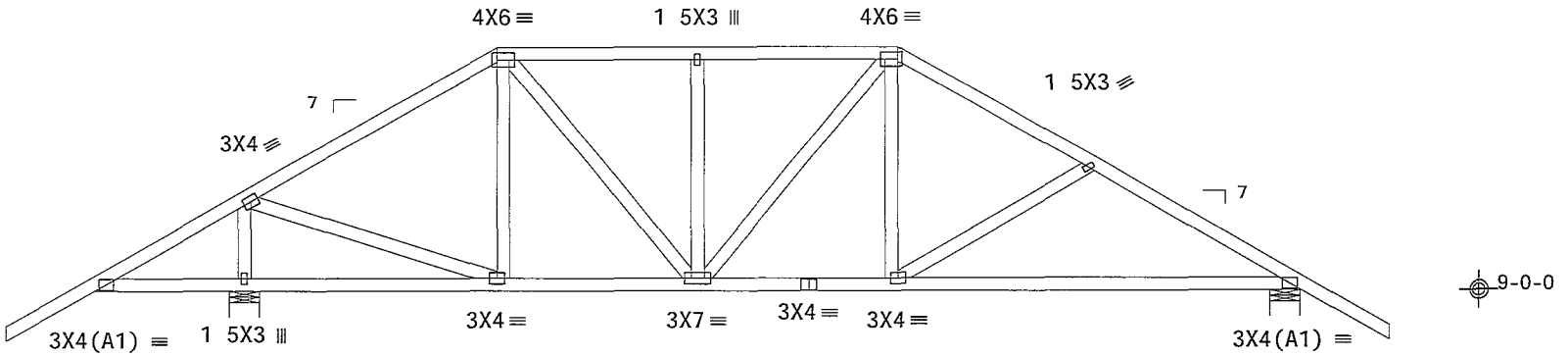
MWFRS loads based on trusses located at least 7 50 ft from roof edge

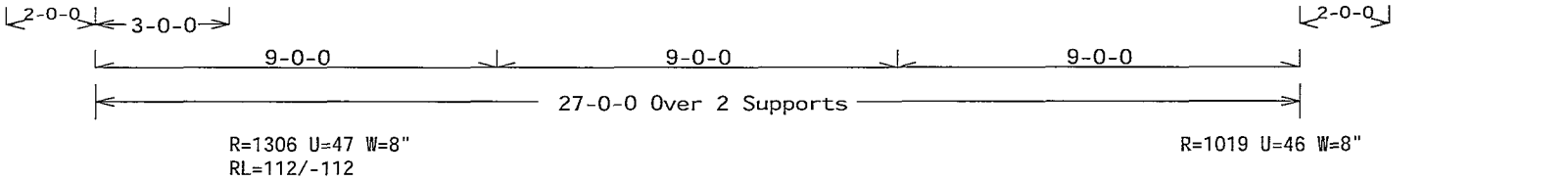
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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 [illegible] 3 | QTY 1 | FL/-/4/-/-/R/- | Scale =.25"/Ft.

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20 0 PSF	REF	R9114- 22084
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10 0 PSF	DRW	HCUSR9114 14071021
BC LL	0 0 PSF	HC-ENG	JB/WPF
TOT LD	37.0 PSF	SEQN-	342533
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - H11 27 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

Left cantilever is exposed to wind

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

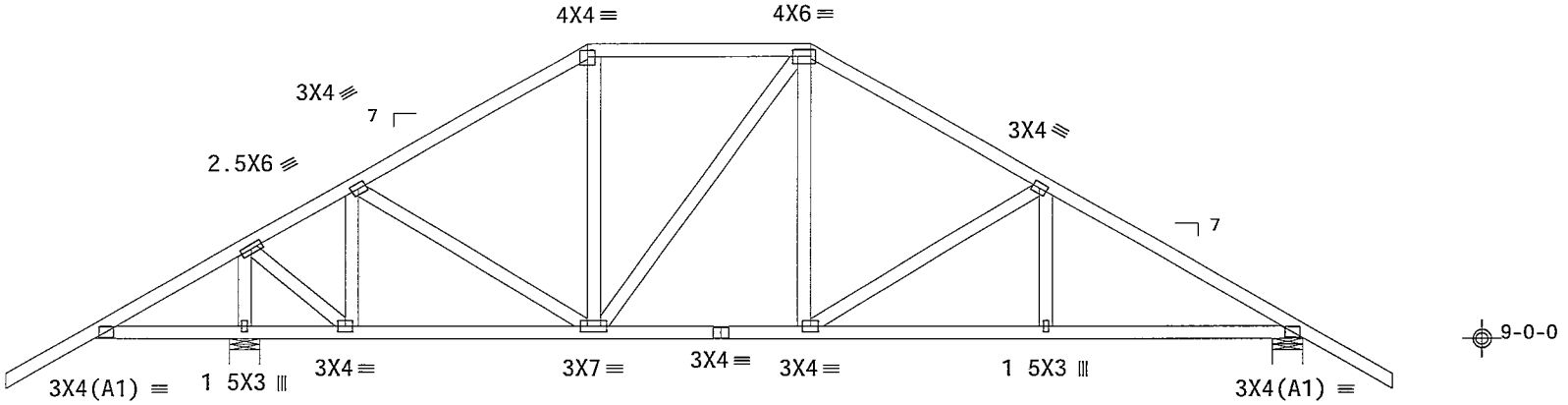
MWFRS loads based on trusses located at least 7 50 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, 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 [illegible] QTY.1 FL/-/4/-/-/R/- Scale = 25"/Ft.

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

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/12/2014

TC LL	20.0 PSF	REF	R9114- 22085
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071022
BC LL	0 0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	342011
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - H13 27' 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

Left cantilever is exposed to wind

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

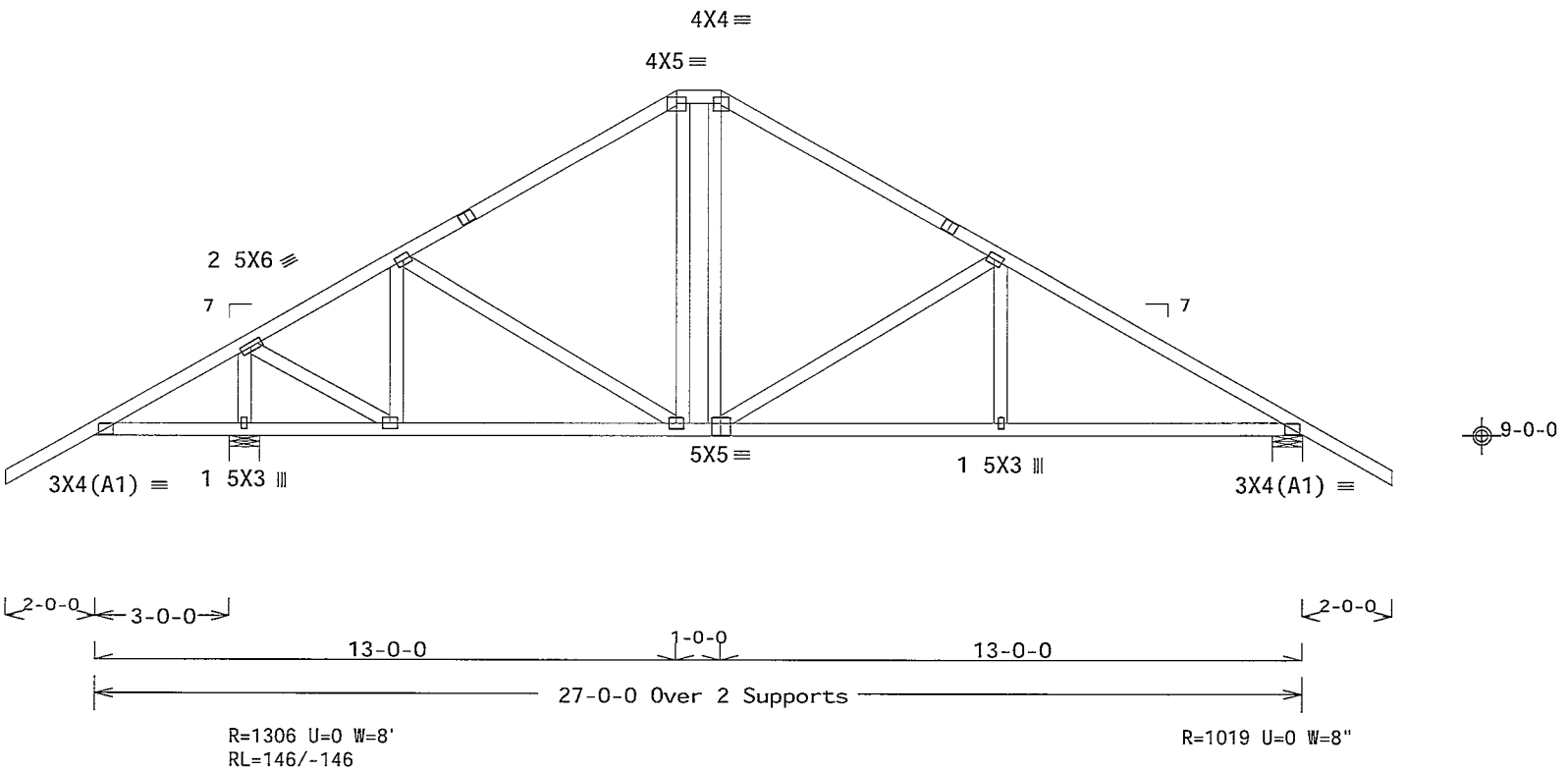
MWFRS loads based on trusses located at least 15 00 ft from roof edge

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



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] 12 QTY.1 FL/-/4/-/-/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 n fabricating handling sh pp ng nstall 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 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 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 ld ng Components Group Inc (ITWBCG) shall not be respons ble for any dev ation 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 Jo nt 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 engineer ng respons b lity solely for the design shown The suitabil ty and use of this des gn for any structure is the responsibility of the Building 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

03/12/2014

TC LL	20.0 PSF	REF	R9114- 22086
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10 0 PSF	DRW	HCUSR9114 14071023
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD	37 0 PSF	SEQN-	342019
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - HJ7 9 8"11 Hip Jack Girder)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP M-30
Webs 2x4 SP #3-13B

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

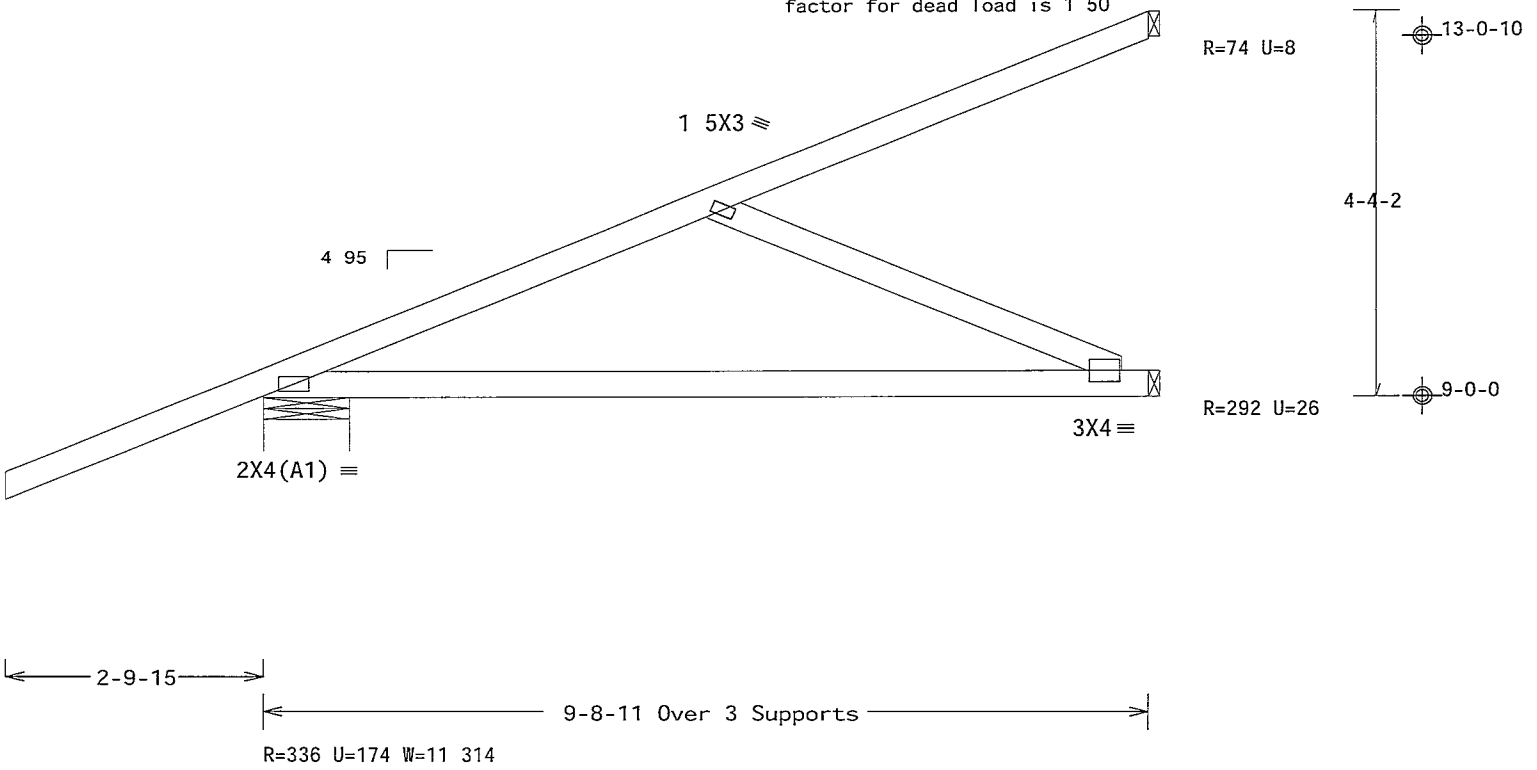
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS

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 72
BC- From 0 plf at -2 83 to 4 plf at 0 00
BC- From 2 plf at 0 00 to 2 plf at 9 72
TC- -68 56 lb Conc Load at 1 48
TC- 87 97 lb Conc Load at 4 31
TC- 217 97 lb Conc Load at 7 13
BC- 3 38 lb Conc Load at 1 48
BC- 94 43 lb Conc Load at 4 31
BC- 174 46 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/-/4/-/-/R/- | Scale =.5"/Ft.

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

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03/12/2014

TC LL	20 0 PSF	REF	R9114- 22087
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071026
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD.	37.0 PSF	SEQN-	23142
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - HJ7A 9'10'13 Hip Jack 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

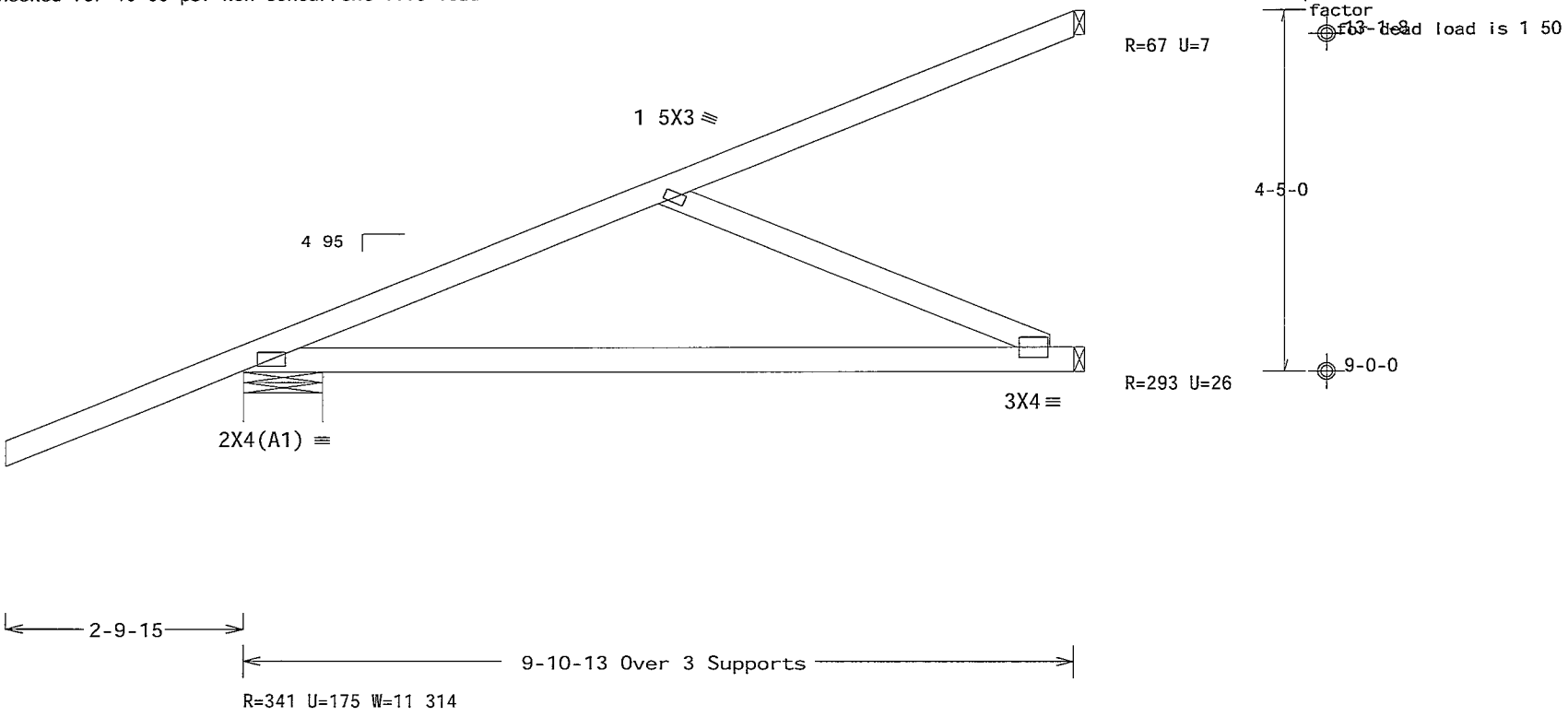
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

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 9 90
TC- -68 56 lb Conc Load at 1 48
TC- 87 97 lb Conc Load at 4 31
TC- 217 97 lb Conc Load at 7 13
BC- 3 38 lb Conc Load at 1 48
BC- 94 43 lb Conc Load at 4 31
BC- 174 46 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/-/4/-/-/R/- Scale =.5"/Ft.

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

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03/12/2014

TC LL	20.0 PSF	REF	R9114- 22088
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071027
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	342556
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

(14-036--Fill in later /Boardman Residence -- Lake City, FL - HJ7B 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

Negative reaction(s) of -223# 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 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

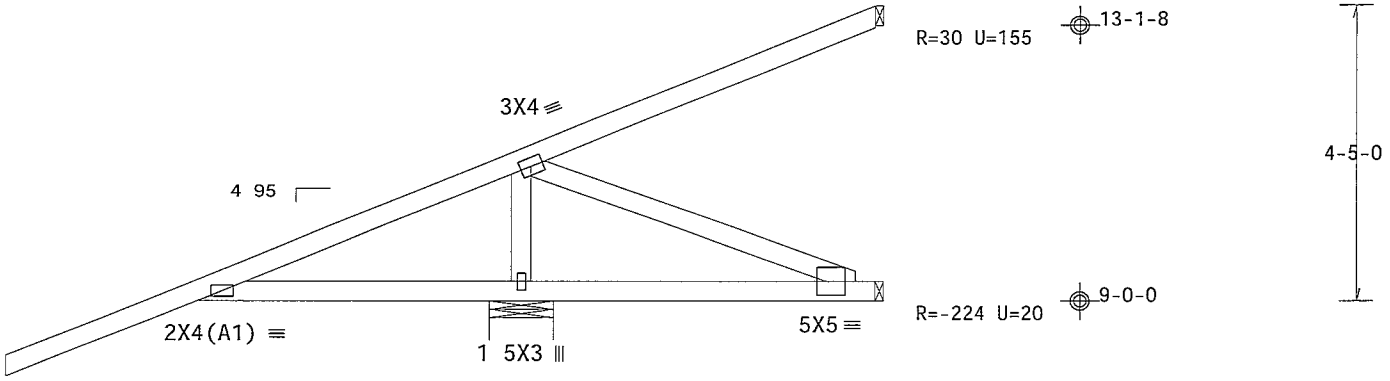
Left cantilever is exposed to wind

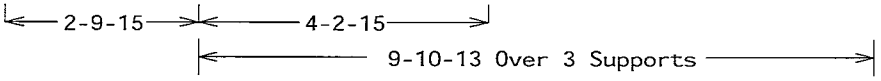
Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

Special loads
------(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 0 plf at -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 9 90
TC- 211 45 lb Conc Load at 1 48
TC- 205 92 lb Conc Load at 4 31
TC- -135 85 lb Conc Load at 7 13
BC- 34 37 lb Conc Load at 1 48
BC- 104 40 lb Conc Load at 4 31
BC- 90 73 lb Conc Load at 7 13

Wind loads and reactions based on MWFRS

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





R=924 U=317 W=11 314

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=10%(0%)/0(0) 12.03 04 [illegible]14 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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03/12/2014

TC LL	20.0 PSF	REF	R9114- 22089
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071028
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD	37.0 PSF	SEQN-	23154
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

Commentary Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads Providing camber has the following advantages

- Helps to ensure level ceilings and floors after dead loads are applied
- Facilitates drainage to avoid ponding on flat or low slope roofs
- Compensates for different deflection characteristics between adjacent trusses
- Improves appearance of garage door headers and other long spans that can appear to "sag"
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads

The amount of camber is dependent on the truss type, span, loading, application, etceteras

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration

The following tables are provided as guidelines for limiting deflection and estimating camber Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0 75" (horizontal)	125" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	100 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	15 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0 25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0 25 x Deflection from Live Load) + (15 x Design Dead Load Deflection)

Note The actual dead load may be considerably less than the design dead load

Building Components Group Inc.

Earth City MO 63045

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ITWBCG: www.itwbcg.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org, ICC: www.iccsafe.org

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

REF	DEFLEC/CAMB
DATE	8/2/13
DRWG	DEFLCAMB0813

03/12/2014

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

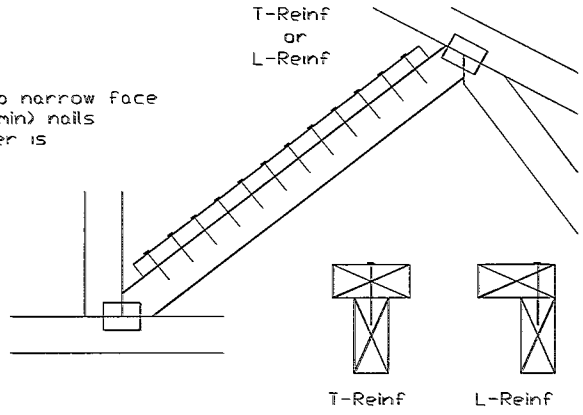
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf	Scab Reinf
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

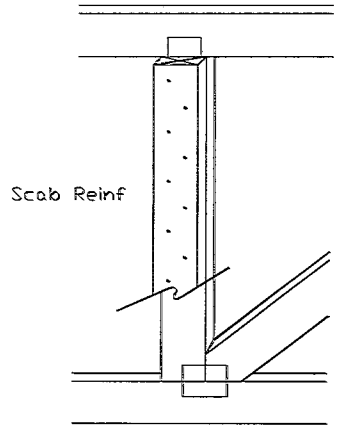
T-Reinforcement or L-Reinforcement

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



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Earth City MO 63045

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14

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		

03/12/2014