

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: IUL8487-Z0113152956



Truss Fabricator: Anderson Truss Company
Job Identification: 12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW
Truss Count: 29
Model Code: Florida Building Code
Truss Criteria: FBC2010Res/TPI-2007(STD)
Engineering Software: Alpine Software, Version 10.03.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 120 MPH ASCE 7-10 -Closed

Notes:

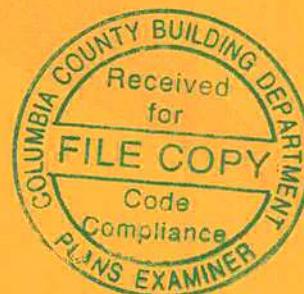
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: 12015EC1-GBLLETIN-GABRST10-BRCLBSUB-VAL16010-

#	Ref	Description	Drawing#	Date
1	21847--AGE	30' Gable	12104002	04/13/12
2	21848--AV1	30' Common	12104029	04/13/12
3	21849--AV1	30' Common	12104003	04/13/12
4	21850--AV	30' Common	12104004	04/13/12
5	21851--AV1	30' Common	12104005	04/13/12
6	21852--AV1	30' Common	12104006	04/13/12
7	21853--AVGE	30' Gable	12104007	04/13/12
8	21854-H13B	30' Stepdown	12104008	04/13/12
9	21855-H11B	30' Stepdown	12104009	04/13/12
10	21856-H9B	30' Stepdown	12104010	04/13/12
11	21857-BG	30' Stepdown	12104030	04/13/12
12	21858-H7B	30' Stepdown	12104026	04/13/12
13	21859--CV	18' Common	12104027	04/13/12
14	21860--CGE	18' Gable	12104028	04/13/12
15	21861--D	8' Common	12104011	04/13/12
16	21862-DG	8' Common Gir	12104012	04/13/12
17	21863--EJ7	7' End Jack	12104013	04/13/12
18	21864--CJ1	1' Jack	12104014	04/13/12
19	21865--CJ3	3' Jack	12104015	04/13/12
20	21866--CJ5	5' Jack	12104016	04/13/12
21	21867-HJ7	9'10"13 Hip	12104017	04/13/12
22	21868-V1	27'5"12 Valle	12104018	04/13/12
23	21869-V2	23'8"12 Valle	12104019	04/13/12
24	21870-V3	19'8"12 Valle	12104020	04/13/12
25	21871-V4	15'8"12 Valle	12104021	04/13/12
26	21872-V5	11'8"12 Valle	12104022	04/13/12
27	21873-V6	7'8"12 Valley	12104023	04/13/12
28	21874-V7	3'8"12 Valley	12104024	04/13/12
29	21875-DV	3'5"12 Valley	12104025	04/13/12



(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City, - AGE 30' Gable)

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

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

Roof overhang supports 2.00 psf soffit load.

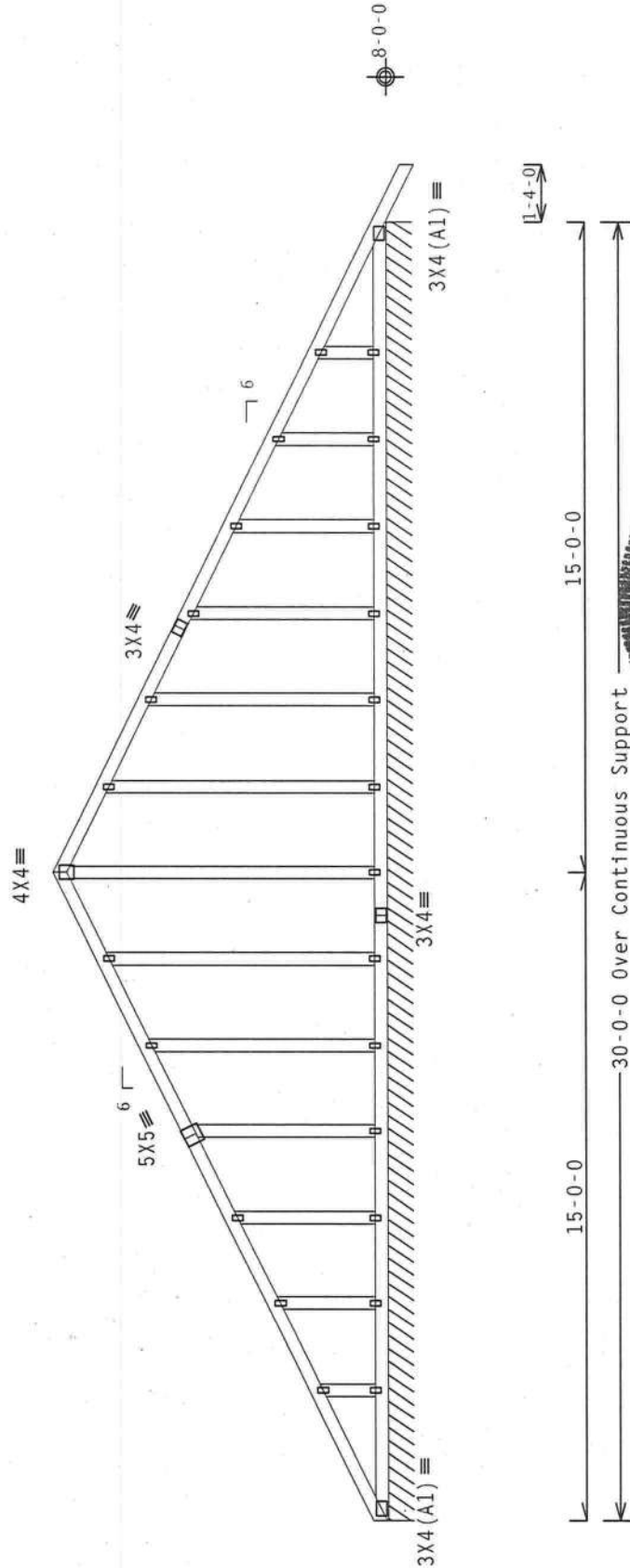
See DWGS A12015ENC100212, GBLLETIN0212, & GABRSTI00212 for more requirements.

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

NOTE: THE PROJECT ENGINEER SHALL PROVIDE FOR ENDWALL STABILITY PER SECTION 2304.3.4.2 OF THE 2007 FLORIDA BUILDING CODE. THE TOP OF THE WALL BELOW THIS TRUSS SHALL BE LATERALLY BRACED AS SPECIFIED BY THE PROJECT ENGINEER. THIS TRUSS WILL NOT PROVIDE LATERAL SUPPORT OF THE ENDWALL.

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

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



R=85 PLF U=0 PLF W=30-0-0
RL=4/-4 PLF

Note: All Plates Are 1.5X3 Except As Shown.

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

PLT TYP. Wave

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

Scale =.25"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the rated erection and bracing instructions. The installer shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joiner's Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering structure is responsible for the building designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; NICA: www.sbcindustry.com; ICC: www.iccsafe.org	TC LL	20.0 PSF	REF	R487 --	21847
		TC DL	10.0 PSF	DATE	04/13/12	
		BC DL	10.0 PSF	DRW	HCUSR487	12104002
		BC LL	0.0 PSF	HC-ENG	SSB/WPF	
		TOT.LD.	40.0 PSF	SEQN	283274	
		DUR.FAC.	1.25			
SPACING	24.0"	JREF	1UL8487_Z01			
★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER 04/13/2012						



(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. - AV1 30' Common)

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

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

Roof overhang supports 2.00 psf soffit load.

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

Calculated horizontal deflection is 0.48" due to live load and 0.76" 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.

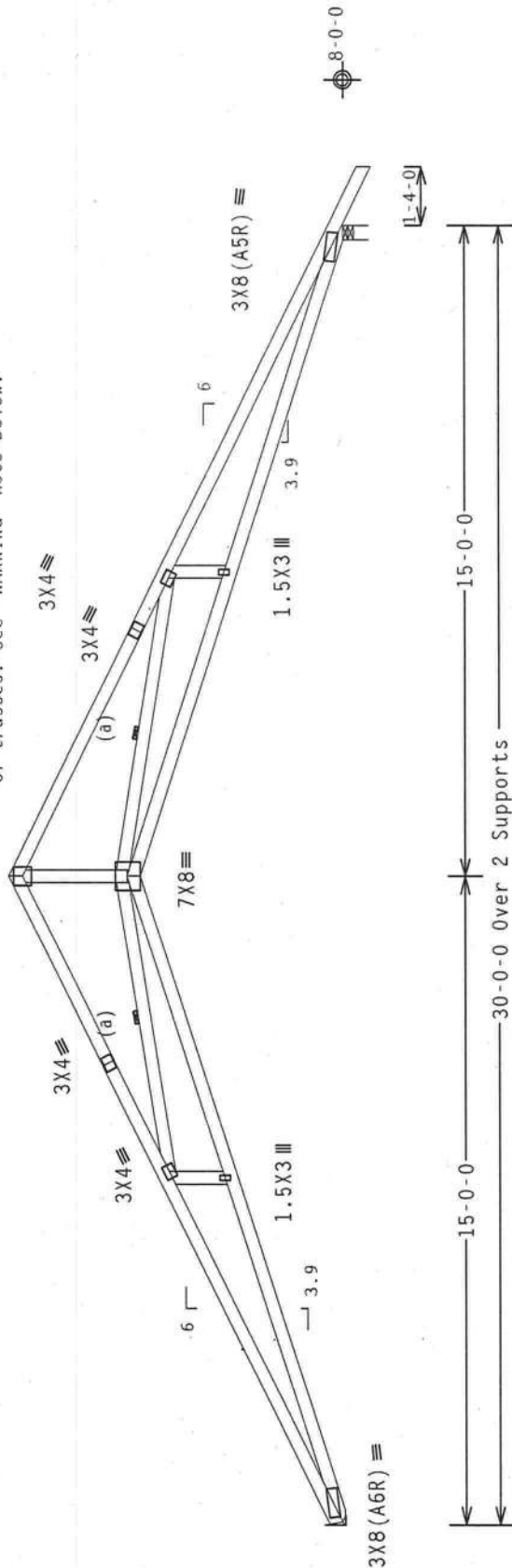
Bottom chord checked for 10.00 psf non-concurrent live load.

Calculated vertical deflection is 0.58" due to live load and 0.93" due to dead load at X = 15-0-0.

(a) Continuous lateral bracing equally spaced on member.

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.



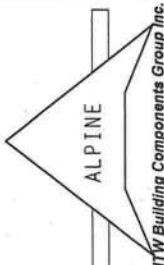
R-1248 U=0
RL-122/-117 H-Simpson LUS26

R=1343 U=0 W=4"

PLT TYP. Wave

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

Scale = .25" / Ft.

 ALPINE iTW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL COMPARTMENTS INCLUDING INSTALLERS.			Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses are designed to be installed in accordance with the PL and KICA practices prior to performing these functions. Installers shall provide temporary bracing to the trusses in accordance with the design shown. Trusses shall be installed in accordance with the design shown. Trusses shall have a properly installed rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCIS sections 83, 87 or 810, as applicable.			TC LL	20.0 PSF	REF R487 - - 21848
	IMPORTANT			iTW Building Components Group Inc. (iTWBCG) shall not be responsible for any deviation from the design shown. iTWBCG shall not be responsible for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the job details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on 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, contact iTWBCG at: iTW-BCG: www.iTWbcg.com; iTW-PL: iTW-PL: www.iTWpl.org; iTW-KICA: www.iTWkica.org; iTW-ICC: www.iTWicc.org			TC DL	10.0 PSF	DATE 04/13/12
							BC DL	10.0 PSF	DRW HCUSR487 12104029
							BC LL	0.0 PSF	HC-ENG SSB/WPF
							TOT.LD.	40.0 PSF	SEQN- 283186
							DUR.FAC.	1.25	
						SPACING	24.0"	JREF- 1UL8487_Z01	
								04/13/2012	

WALTER P. FINN
LICENSE
10.03.15 QTY 15
FL / - / 4 / - / - / R / -
SCALE = .25" / FT.
DATE 04/13/12
DRW HCUSR487 12104029
HC-ENG SSB/WPF
SEQN- 283186
JREF- 1UL8487_Z01

(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City, - AV 30' Common)

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

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.48" due to live load and 0.75" due to dead load.

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

Calculated vertical deflection is 0.59" due to live load and 0.92" due to dead load at X - 15-0-0.

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

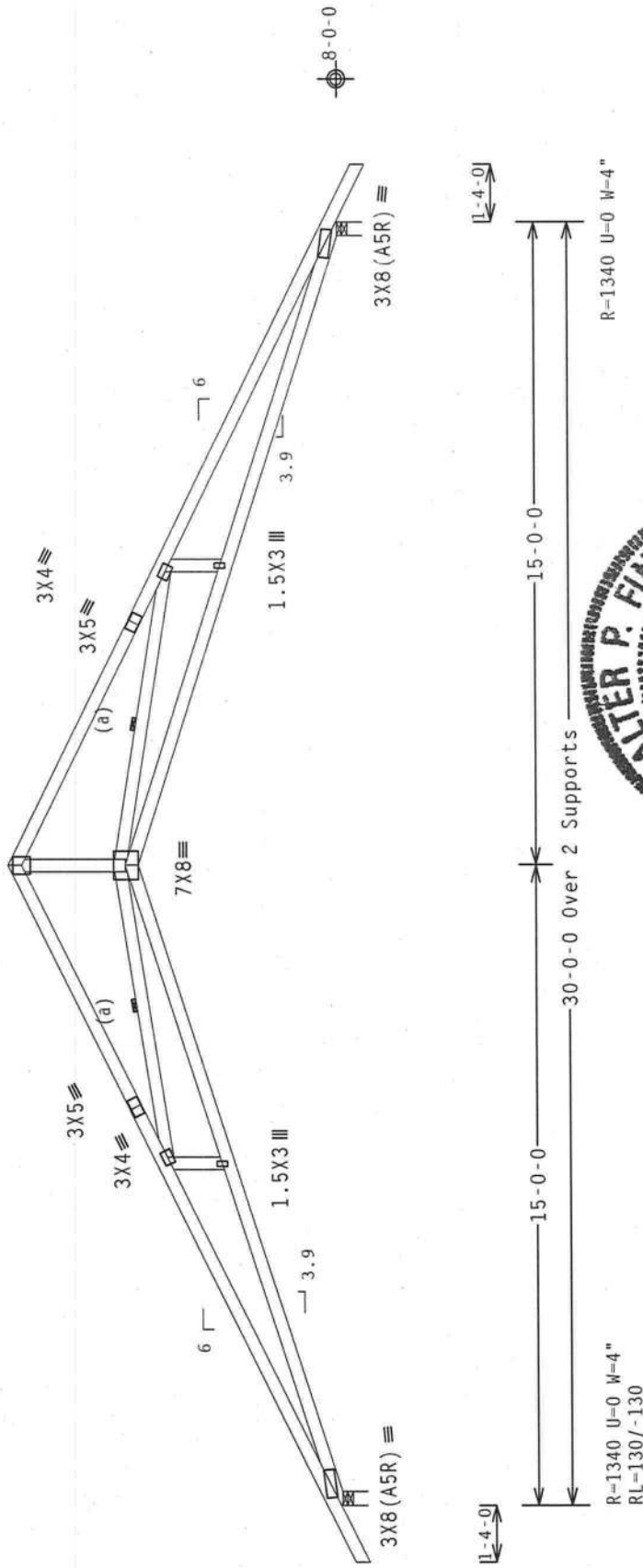
Wind loads and reactions based on MWFRS with additional C&C member design.

(a) Continuous lateral bracing equally spaced on member.

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.

5X5 (R) III



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

Scale = .25" / Ft.

PLT TYP. Wave	10.03 11.0209.21 No. 22839	OT 3	FL / - / 4 / - / R / -	TC LL 20.0 PSF	REF R487 -- 21850
				TC DL 10.0 PSF	DATE 04/13/12
				BC DL 10.0 PSF	DRW HCUSR487 12104004
				BC LL 0.0 PSF	HC-ENG SSB/WPF
				TOT.LD. 40.0 PSF	SEQN - 283174
				DUR.FAC. 1.25	
				SPACING 24.0"	JREF- 1UL8487_Z01

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET.

IMPORTANT FURNISH THIS DESIGN TO ALL COMPANIES INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety) Information, by IPI and WICA, practices prior to performing these functions. Trusses shall be properly braced and shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or B10, as applicable.

IPI Building Components Group Inc. (IPIBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/IPI 1, or for handling, shipping, installing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer. IPI: www.ipeco.com; TPI: www.tpinet.org; NICA: www.sbciindustry.com; ICC: www.iccsafe.org

ALPINE

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

(12-077)--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. -- AV1 30' Common)

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

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

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.47" due to live load and 0.76" due to dead load.

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

Calculated vertical deflection is 0.58" due to live load and 0.93" due to dead load at X = 15'-0-0.

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

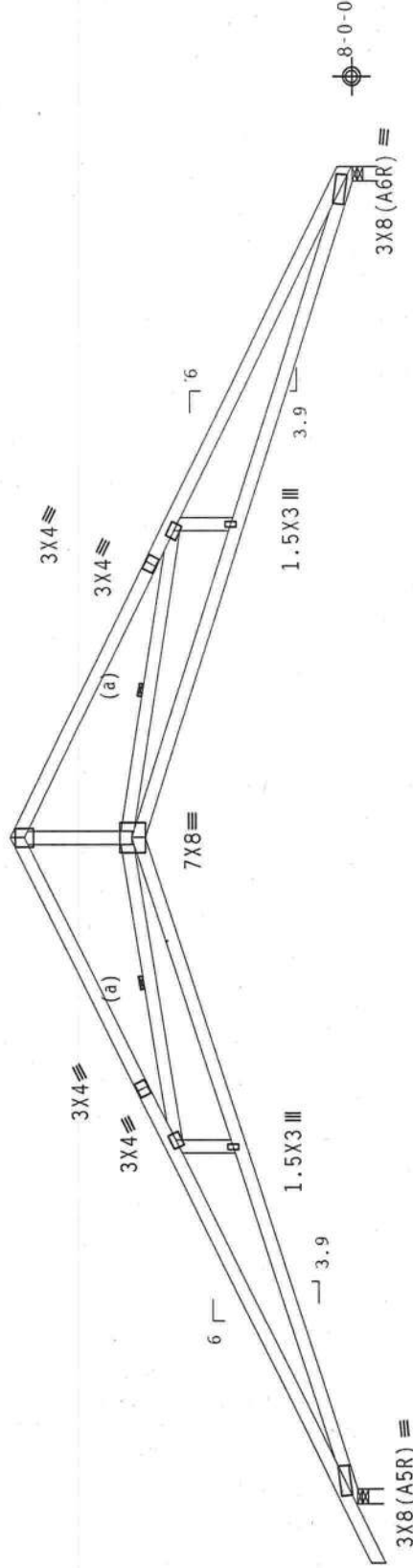
Wind loads and reactions based on MWFRS with additional C&C member design.

(a) Continuous lateral bracing equally spaced on member.

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.

5X5 (R) III



11-4-01

15'-0-0 30'-0-0 Over 2 Supports 15'-0-0

R-1342 U=0 W=4"
RL-117/-122

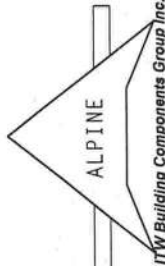
R-1248 U=0 W=4"

PLT TYP. Wave

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

10.03 11.0209 21
QTY 1 FL/-/4/-/R/-

Scale = .25" / Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by IPI and NICA) practices prior to performing these tasks. Trusses shall be properly attached structural sheathing and batts shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on 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. TPI: www.tpiinst.org; NICA: www.nicaindustry.com; ICC: www.iccsafe.org			
	TC LL	20.0 PSF	REF	R487-- 21851
	TC DL	10.0 PSF	DATE	04/13/12
	BC DL	10.0 PSF	DRW	HCUSR487 12104005
	BC LL	0.0 PSF	HC-ENG	SSB/WPF
	TOT.LD.	40.0 PSF	SEQN	283180
04/13/2012	DUR.FAC.	1.25	JREF- 1UL8487_Z01	
	SPACING	24.0"		

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

right cantilever is exposed to wind

Roof overhang supports 2.00 psf soffit load.

Cable end supports 8" max rake overhang.

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

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.

+ MEMBER TO BE Laterally Braced for Out of Plane Wind Loads.
Bracing System to be Designed and Furnished by Others.

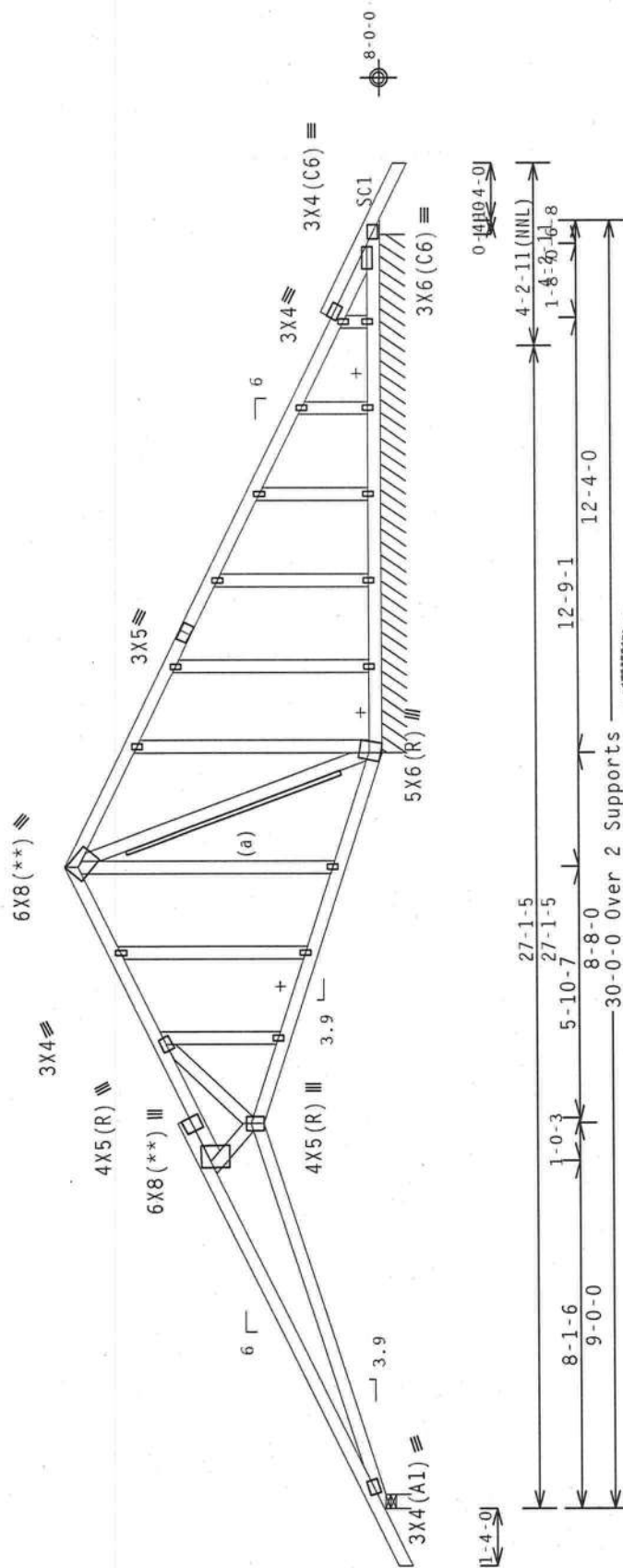
(**) 2 plate(s) require special positioning. Refer to scaled plate lot details for special positioning requirements.

1120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCp1(+/-)=0.18

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

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

Stacked top chord must NOT be notched or cut in area (NWL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in 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.



R-406 U-17 W-4"
R1-130/-130

Note: All Plates Are 1.5X3 Except As Shown.

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

Scale = .25"/Ft.

OTY 1 FI 1-141-1-1R1-

10.03.17 0209.21

07/07/2007 (31%)

SC2010RE
ET/PT-10

sign cril:

T TYP W-

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

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Installers require extreme care in fabricating, handling, shipping, installing and bracing. Please follow the latest edition of BCSI (Building Component Safety Information, by IPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing in accordance with BCSI practices noted otherwise. Two chord shall have properly attached structural sheathing and both chords shall have properly attached rigid ceiling. Locations for lateral bracing shall be indicated on drawings and be readily accessible.

[illegible]

ALPINE

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

Haines City, FL 33844

City, FL 338
FL COA #0278

04/13/2012

Q: This Job's

For more information
ICA: www.sbctindust

per ANSI/TPI 1 Sec
TPI: www.tpinst.org

the Building Design
TW-BCG: www.tubco.com

the responsibility
general notes pa

FL 33844

Haine

(12-077)--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. - H13B 30' Stepdown Hip)

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

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

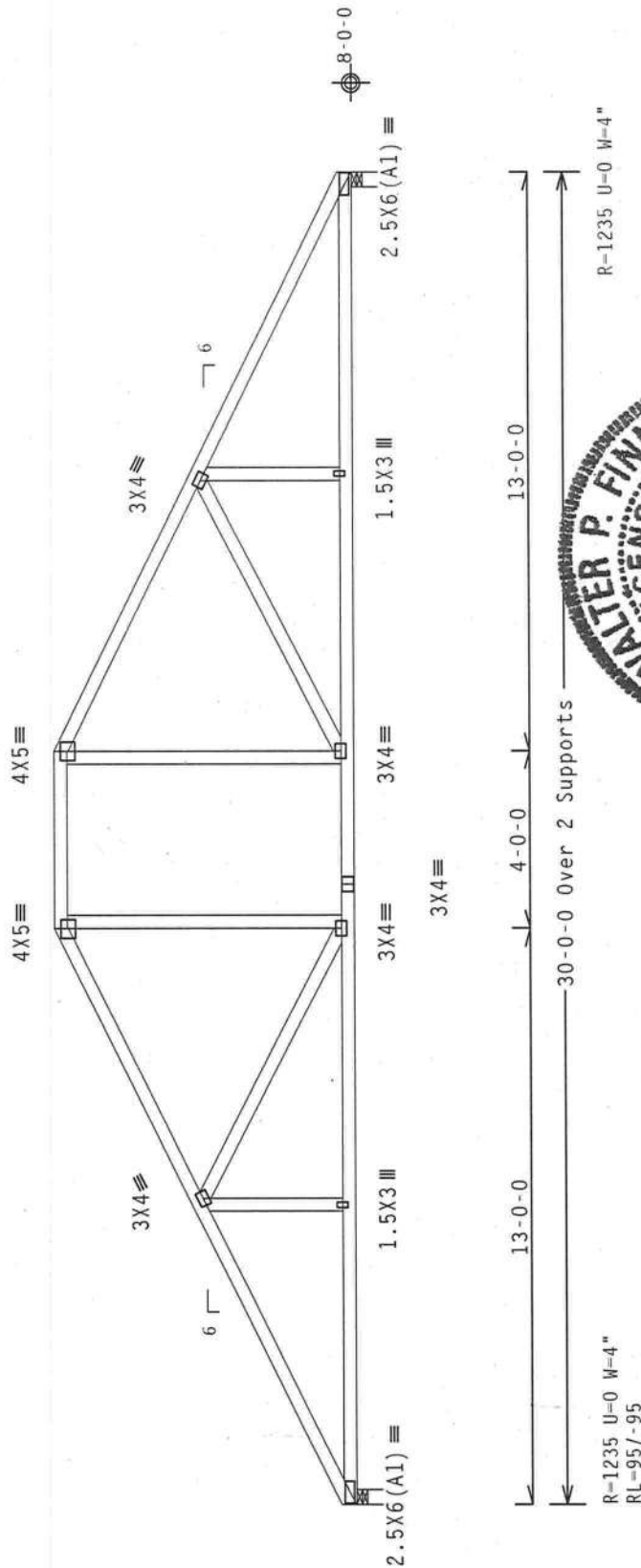
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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.

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



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

Scale = .25" / Ft.

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

10.03. No. 22839

TY: 10.03. No. 22839

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

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TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487 -- 21854

DATE 04/13/12

DRW HCUSR487 12104008

HC-ENG SSB/WPF

SEQN - 283220

JREF - 1UL8487_Z01

(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City,

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

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

Roof overhang supports 2.00 psf soffit load.

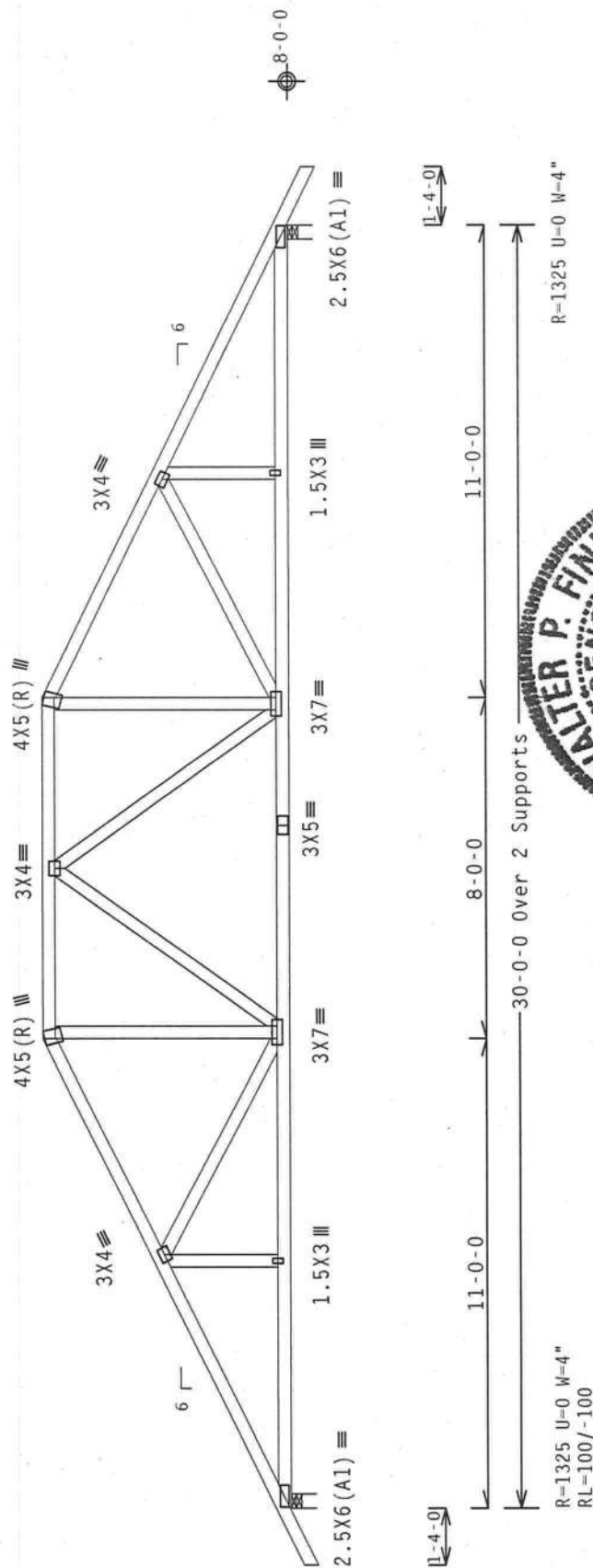
wind loads and reactions based on MWFRS with additional C&C member design.

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

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.

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



R=1325 U=0 W=4"
RL=100/-100

-30-0-0 Over 2 Supports

R=1325 H=0 W=4"

PLT TYP. Wave

Design Crit.: FBC2010Res/TPI-2007(Std)

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

10:03. No. 020982b

Scale = .25"/Ft.

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

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Fussess require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI Building Components Safety Information System by American Bracing Company, Inc., for complete details on design, fabrication, erection and bracing. The bottom chord shall have a properly attached structural sheathing and bottom flange. The top chord shall have a properly attached rigid ceiling. Ceilings shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

The Building Components Group Inc. (BICG) shall not be responsible for any deviation from the manufacturer's instructions or specifications for the design, fabrication, erection, installation, or bracing of trusses. Apply plates to each face of truss and position as shown above and on the joining details, unless noted otherwise. Refer to drawing T600-2 for standard plate positions. A seal on the underside of the top chord is required. The seal must be applied to all standard plate positions. Responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer. Please contact BICG at 800-955-7554 for more information. This job # is 1114-BEG. www.bicg.com; mail: wnc@bicg.com; fax: wncf@bicg.com; web: www.bicg.com.

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

Haines City, FL 33844
FL COA #0278

04/13/2012

DUR.FAC.	1.25
SPACING	24.0"

JREF- 1UL8487 Z01

(12-077)--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. - H9B 30' Steardown Hip)
Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.
In lieu of structural panels use purlins to brace all flat TC @ 24"

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

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

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.

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

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.

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

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.

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

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.

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

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.

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

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.

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

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.

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

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

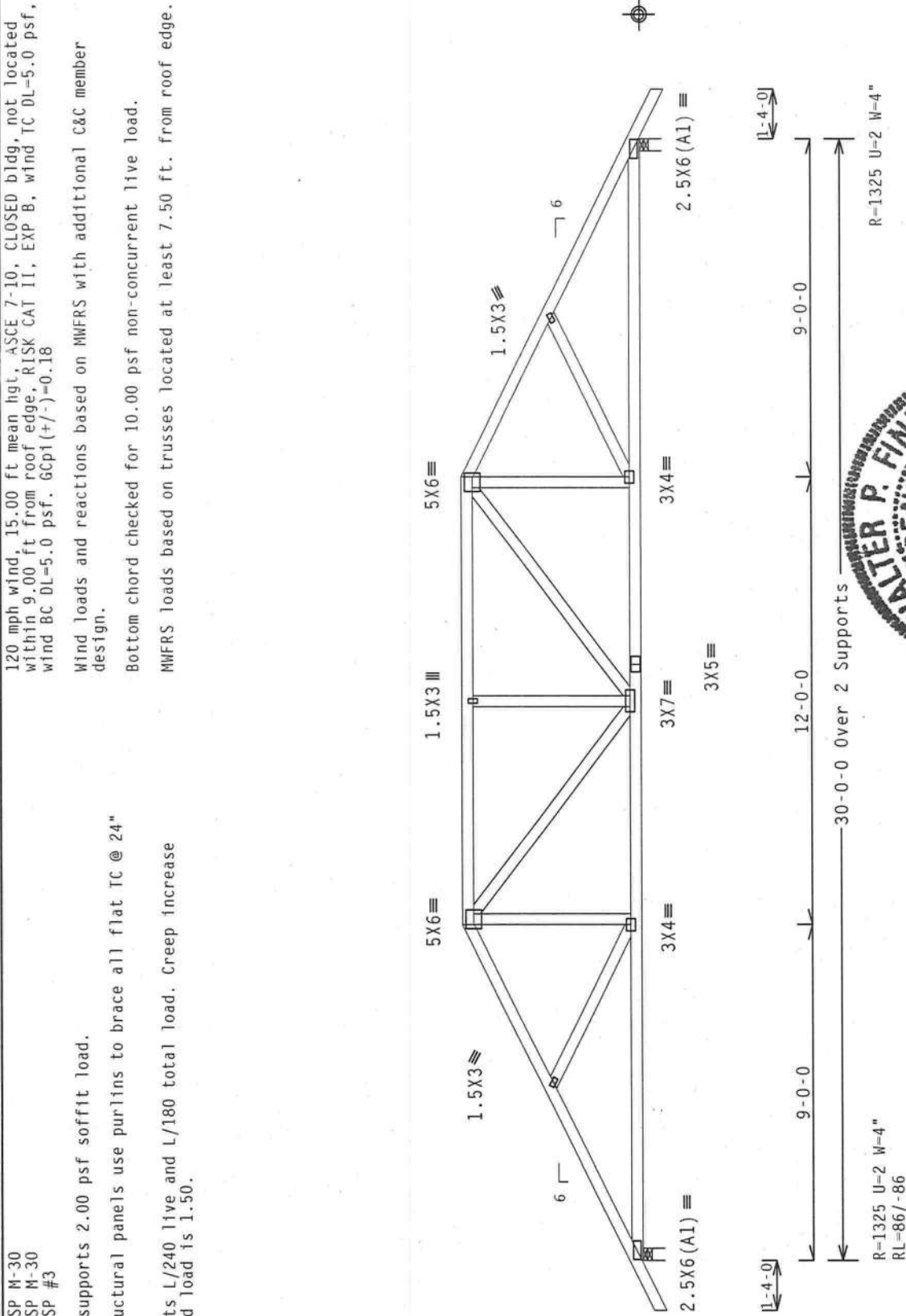
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

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

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.

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



PLT TYP. Wave	Design Crit: FBC2010Res/TPI-2007 (STD) FT/RT=10%(0%)/0(0)	10.03 No. 2839	FL/-/4/-/1-/R/-	Scale = .25" / Ft.
ALPINE	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and BCSI) and the manufacturer's instructions. The truss manufacturer shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.	10.03 No. 2839	TC LL 20.0 PSF	REF R487-- 21856
	any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer. TPI: www.tpinet.org; NICA: www.nicaindustrial.com; ICC: www.iccsafe.org	10.03 No. 2839	TC DL 10.0 PSF	DATE 04/13/12
		10.03 No. 2839	BC DL 10.0 PSF	DRW HCUSR487 12104010
		10.03 No. 2839	BC LL 0.0 PSF	HC-ENG SSB/WPF
		10.03 No. 2839	TOT.LD. 40.0 PSF	SEQN- 283214
		10.03 No. 2839	DUR.FAC. 1.25	
		10.03 No. 2839	SPACING 24.0"	JREF- 1UL8487_Z01

Top chord 2x4 SP M-30
Bot chord 2x6 SP M-26
Webs 2x4 SP #3

:Lt Wedge 2x8 SP #1 Dense::Rt Wedge 2x8 SP #1 Dense:

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

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

Girder supports 30'-0"-0" span to BC one face and 2'-0"-0" span to TC/BC
split opposite face.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3", min. nails

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

Bot Chord: 1 Row @ 5.50" o.c.

Webs : 1 Row @ 4" o.c.

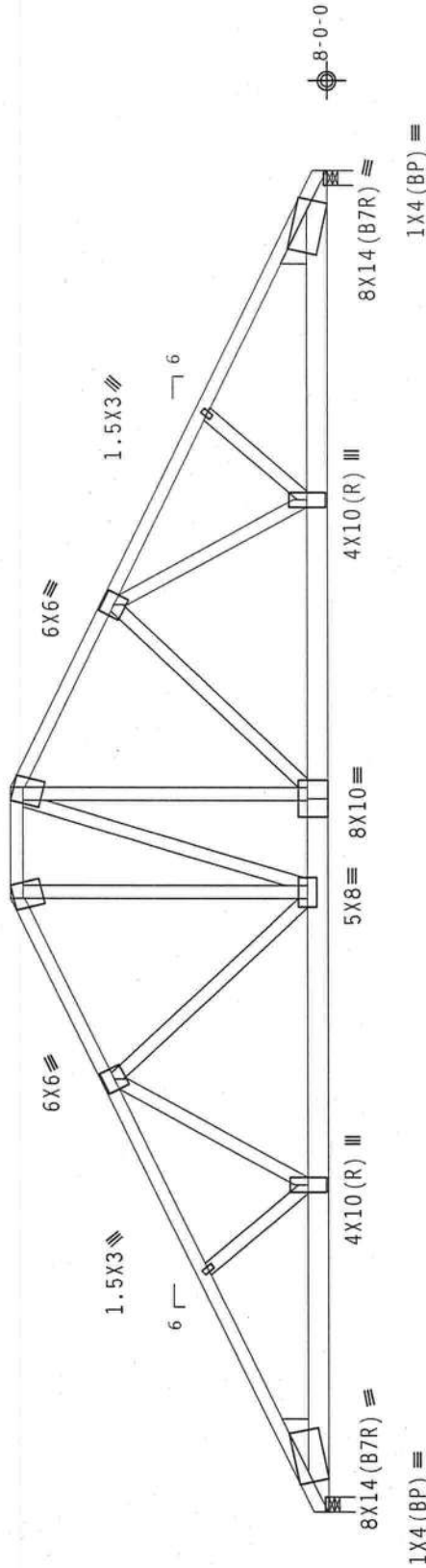
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

4" o.c. spacing of nails perpendicular and parallel to
grain required in area over bearings greater than 4"

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.

7X8(R) 7X8(R)



13'-9"-0" 13'-9"-0" 13'-9"-0"
R-9793 U-0 W-4" R-9793 U-0 W-4"
Scale = .25"/Ft.

PLT TYP. Wave

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

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

TC LL	20.0 PSF	REF	R487--	21857
TC DL	10.0 PSF	DATE	04/13/12	
BC DL	10.0 PSF	DRW	HCUSR487	12104030
BC LL	0.0 PSF	HC-ENG	SSB/WPF	
TOT.LD.	40.0 PSF	SEQN-	283139	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UL8487_Z01	

10.03. No. 22829
WALTER P. FINN
LICENSE
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
04/13/2012

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Personnel
follow the latest edition of BCSI (Building Component Safety Information, by IPI and NICA) for safety
practices prior to performing these functions. Installers shall provide temporary bracing per BCSI
unless noted otherwise. Top chords shall have pre-engineered bracing installed for lateral restraint
and shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

IPI Building Components Group Inc. (IPI/BCG) shall not be responsible for any deviation from this
drawing or cover page listing this drawing. Refer to drawings 160A-2 for standard plate positions. A seal on the
drawing or cover page listing this drawing. Indicates acceptance of professional engineering
responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's
general notes page: IPI-BCG: www.ipecy.com; TPI: www.tpinet.org; NICA: www.bcsiindustry.com;
ICC: www.iccsafe.org

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

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

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

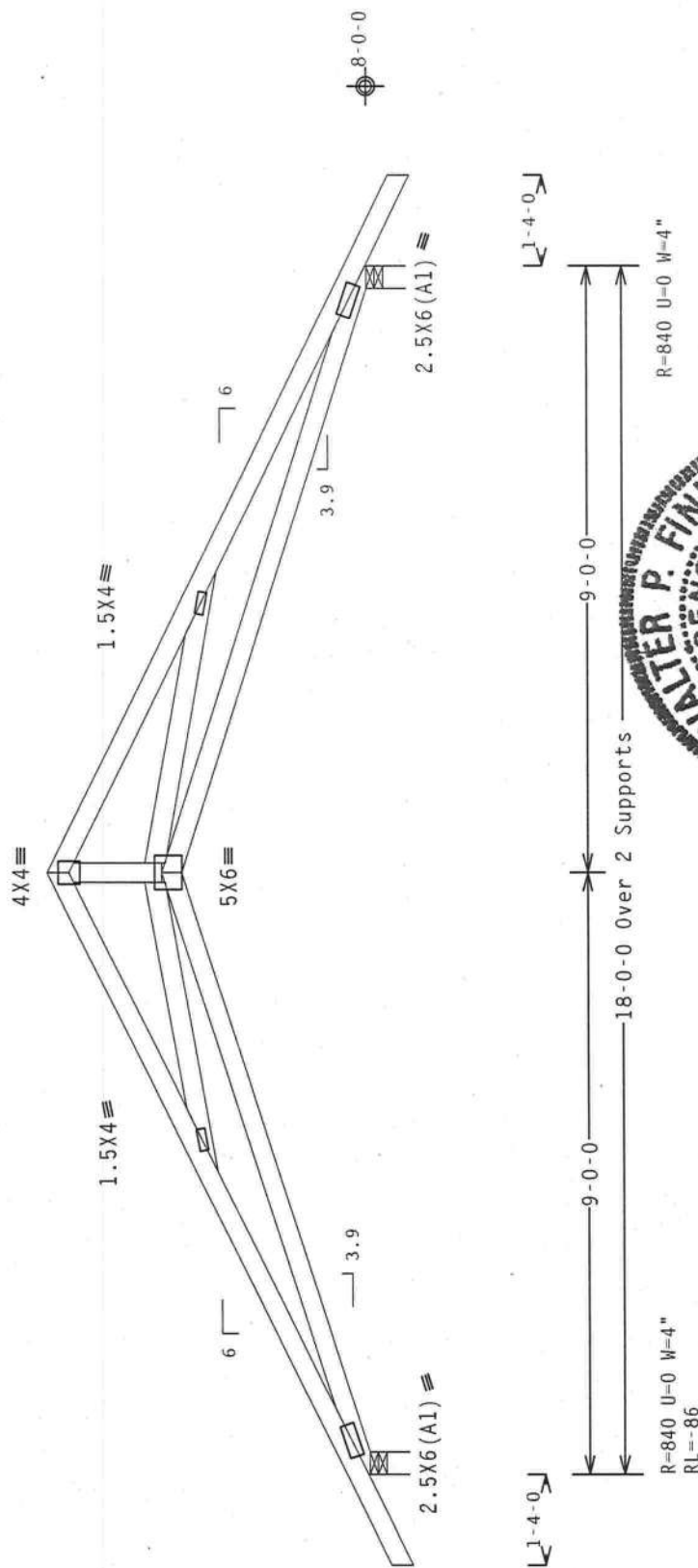
Roof overhang supports 2.00 psf soffit load.

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

Calculated horizontal deflection is 0.14" due to live load and 0.22" 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.

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

Scale = .375"/Ft.

FL 1-141-1-1R1-

10:03 M 00299990

(0) 01
01(c) / 002-

STRUCTURES/ IPI
ET/RT=10% (0%)

Design Crit: FB

PI T TVD Wave

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

Trusses require extreme care in fabricating, hoisting, shipping, installing and bracing. To ensure the latest edition of the RCSI Building Information, by IPI and WICA for safety and liability reasons, the following instructions shall be followed:

- 1. Trusses shall be braced in accordance with the RCSI Building Information, by IPI and WICA for safety and liability reasons.
- 2. Trusses shall have a properly attached structural sheathing and bottom chord.
- 3. Trusses shall have a properly attached rigid ceiling.
- 4. Locations shown for permanent lateral restraint shall have bracing installed per RCSI sections B3, B7 and B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design shown on this drawing. ITWBCG shall not be responsible for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or packing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Detail Drawing. The truss shall be fabricated in accordance with the details shown on this drawing. Details, unless noted otherwise. Refer to drawing 1600-2 for standard plate positions. A seal on the drawing or cover plate listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. This drawing is not to be used for any other structure. For more information see: This Job's General notes 1609S; ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; NICA: www.nicaindustry.com; AISC: www.aisc.org

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

Jaines City, FL 33844
FL COA #0278

H

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

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

Left and right cantilevers are exposed to wind

Roof overhang supports 2.00 psf soffit load.

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

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

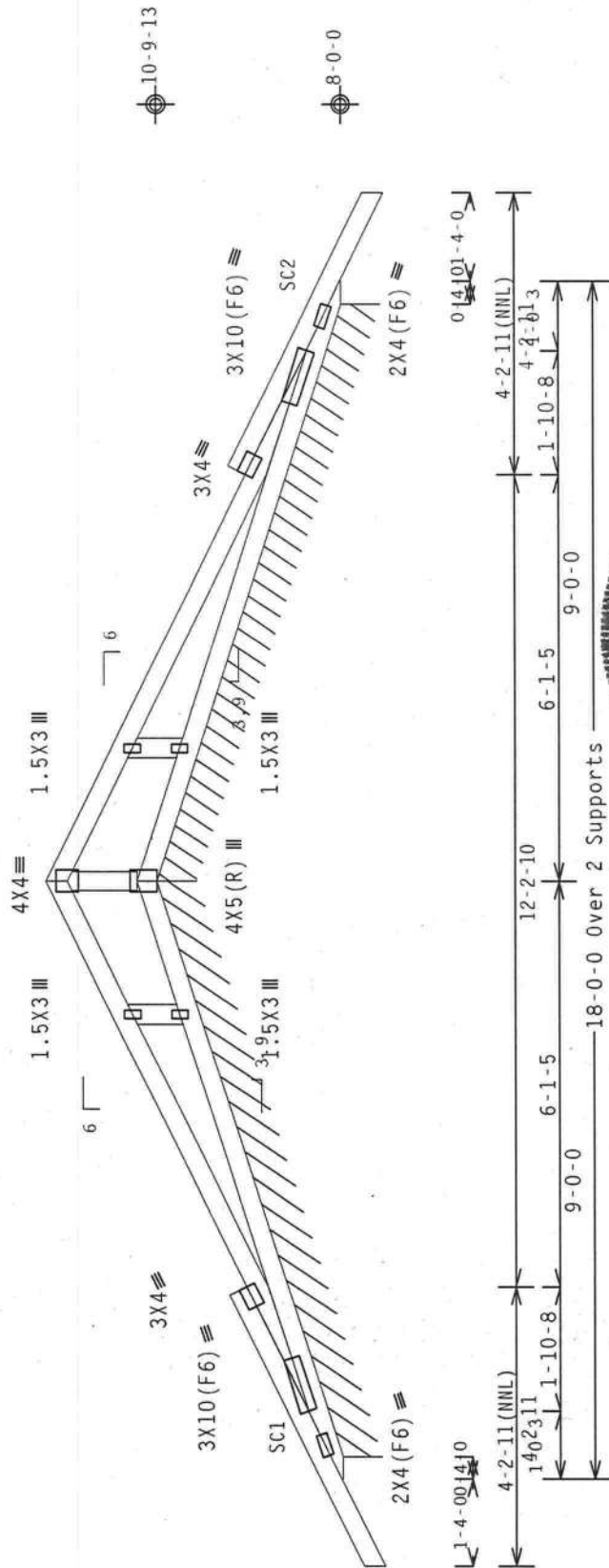
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

1120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. GCpl (+/-)=0.18

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

Gable end supports 8" max rake overhang.

Stacked top chord must NOT be notched or cut in area (NWL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in 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.



R=104 PLF U=0 PLF W=8-8-0
RL=10/-10 PLF

R=108 PLF U=4 PLF W

PLOT TYP.: Wave

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

Scale = .375"/Ft.

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

0TYL1

10.03.11.0209.21

(0) 0 / (0%) %

CULT. PRODUCTIONS
FT/RT=10'

Design

a

PIT TYP Wave

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design shown on drawings and specifications. ITWBCG shall not be responsible for any structural failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the drawings. Do not alter the design or details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the bottom flange of the truss indicates acceptance of professional engineering structure. The seal is not a warranty. ITWBCG shall not be responsible for the design shown on drawings. For more information see: This job's drawings and specifications. For more information see: ANSI/TPI 1, Part 2. For more information see: This job's drawings and specifications. ITW-BGQ: www.itwbg.com; TPI: www.tpiinst.org; NICA: www.sbctnindustry.com; general notes page: www.1654a66.org



ALPINE
Building Components Group Inc.
 Haines City, FL 33844
 FL COA #0778

Haines City, FL 33844
FL COA #0278

ues City, FL 338
FL COA #0778

ues City, FL 338
FL COA #0778

(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. - D 8' Common)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

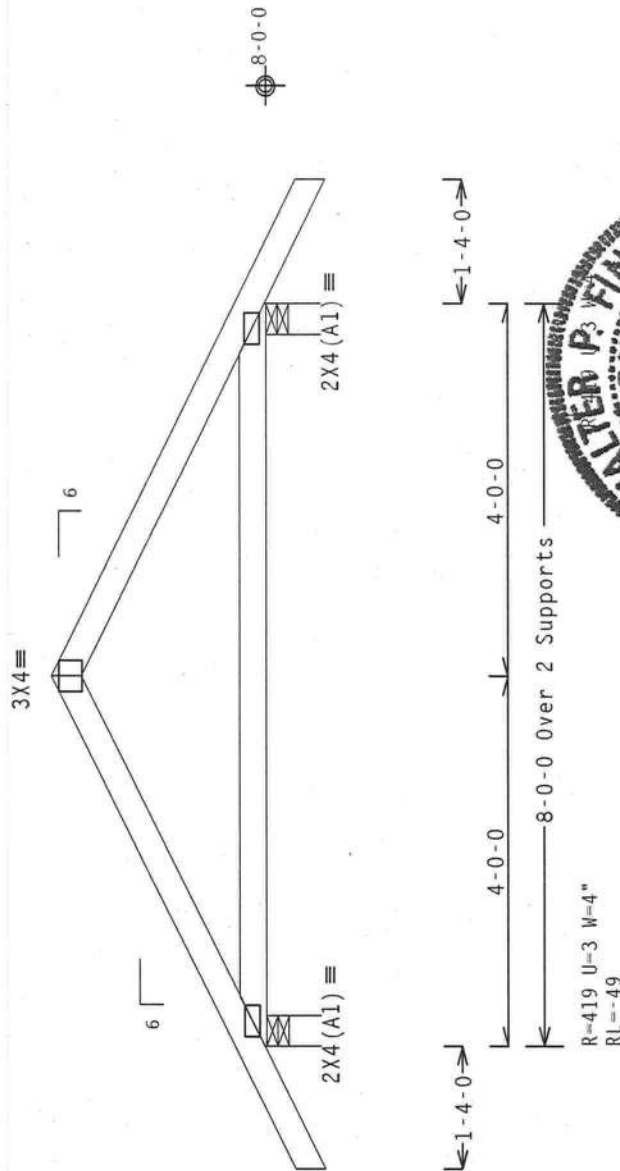
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCp1(+/-)=0.18

Roof overhang supports 2.00 psf soffit 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.

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



PLT TYP. Wave

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

Scale = .5" / Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	10.03. No. 22839		QTY	FL	TC LL	20.0 PSF	REF R487 -- 21861
	10.03. No. 22839		QTY	FL	TC DL	10.0 PSF	DATE 04/13/12
	10.03. No. 22839		QTY	FL	BC DL	10.0 PSF	DRW HCUSR487 12104011
	10.03. No. 22839		QTY	FL	BC LL	0.0 PSF	HC-ENG SSB/WPF
	10.03. No. 22839		QTY	FL	TOT.LD.	40.0 PSF	SEQN- 283298
	10.03. No. 22839		QTY	FL	DUR.FAC.	1.25	JREF- 1UL8487_Z01
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wind loads and reactions based on MWFRS with additional C&C member design.

	Dur.	Fac.=1.25	/	Plate	Dur.	Fac.=1.25
--(Lumber	62	p1f	at	0.00	to	62 p1f at 4.00
-- From	62	p1f	at	4.00	to	62 p1f at 8.00
-- From	10	p1f	at	0.00	to	10 p1f at 8.00
1247.54	1b	Conc.	Load	at	1.44	3.4, 5.44,

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.

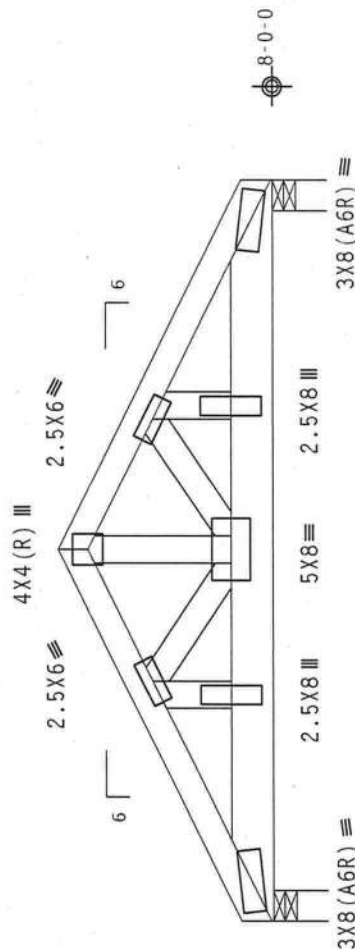


Diagram of a continuous beam with three supports. The beam is divided into two equal spans of 8.00 m each. The total length is 16.00 m. The beam is labeled "8.00 Over 2 Supports". The beam is supported by three points, with the middle support being a roller support and the end supports being pin supports. The beam is labeled "8.00 Over 2 Supports".

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STD
FT/RT=10%(0%)/0(0)FL/-/4/-/-/R/-
Scale = .5"/Ft.

TC 11	20.0 PSF
-------	----------

REF R487-- 21862

TC DL 10.0 PSF

DATE 04/13/12

10.0 PSF

DRW HCUSR487 12104012

0 0 pSF

HC-ENG SSB/WPF

00	LL	0:01	51
TOT	LD	40	0 DCE

CEOM- 202202

40.0 PSF

40.0

OUR.FAC. 1.25

AC. 1.25

JREF- 1UL8487_Z01

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

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

****IMPORTANT****

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Review the latest edition of BCSP Building Components Information Manual, available from BCSP, for complete details regarding bracing of trusses. Truss chord shall have permanently attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (IBCGO) shall not be responsible for any deviation from the design shown which may result in failure to build the truss in conformance with ANSI/TPI-1 or for handling, shipping, installation or erection of the truss. The responsibility for proper detailing, fabrication, bracing and erection of all components of the truss system rests solely with the contractor. IBCGO does not assume any liability for any failure due to improper application of the design shown. A seal on the drawings 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, more information can be found at: This job's responsibility lies with the building designer. IBCGO: www.ibcgo.com; TPI: www.tpi.org; NCA: www.ncaindust.com; ICC: www.iccsafe.org

ALPINE

TTW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. - EJ7 7' End Jack)

Top chord 2x4 SP N-30
Bot chord 2x4 SP N-30

Roof overhang supports 2.00 psf soffit load.

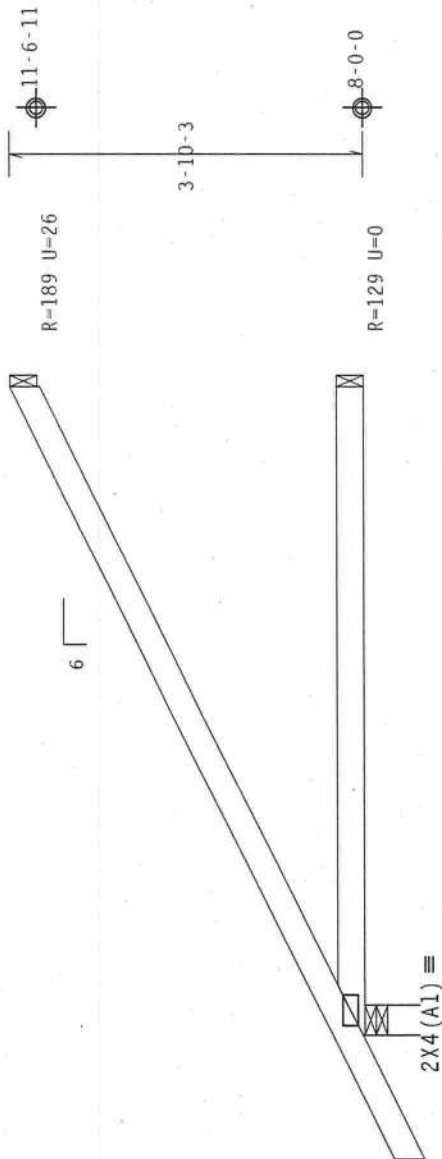
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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=5.0 psf, wind BC DL=5.0 psf. GCp1(+/-)=0.18

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

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.



1-4-0

7-0-0 Over 3 Supports

R=394 U=0 W=4"
RL=68/-25

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

PLT TYP. Wave

10.03 No. 28399

FL/-/4/-/R/-

Scale =.5"/Ft.

TC LL	20.0 PSF	REF	R487--	21863
TC DL	10.0 PSF	DATE	04/13/12	
BC DL	10.0 PSF	DRW	HCUSR487	12104013
BC LL	0.0 PSF	HC-ENG	SSB/WPF	
TOT.LD.	40.0 PSF	SEQN-	283202	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UL8487_Z01	

WALTER P. FINN
LICENSE
No. 28399
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
04/13/2012

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL COMPACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and MICA) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 63, 67 or 810, as applicable.
TPI Building Components Group Inc. (TIBCIG) shall not be responsible for any deviation from the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to be used to accept concentrated loads. See TIBCIG 1000-2 for standard plate positions. A seal on 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: TIBCIG: www.tibcig.com; TPI: www.tpinet.org; MICA: www.sbcindustry.com; ICC: www.iccsafe.org

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

(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City, - CJI 1' Jack)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

Roof overhang supports 2.00 psf soffit 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.

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

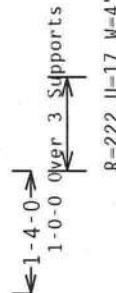
Wind loads and reactions based on MWFRS with additional C&C member design.

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.

R=-41 Rw=13 U=30



R=7 Rw=9 U=7



R=222 U=17 W=4"

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

PLT TYP. Wave



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Rely on the safety of the truss system. Follow the latest edition of BCSI (Building Component Safety Information, by IPI and HICA) for best practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in accordance with ANSI/TPI 1, for handling, shipping, installing, bracing, or any other use. Refer to drawings 1600-2 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-Bldg: www.itwbcg.com; TPI: www.tpinet.org; HICA: www.sbcindustry.com; ICC: www.iccsafe.org



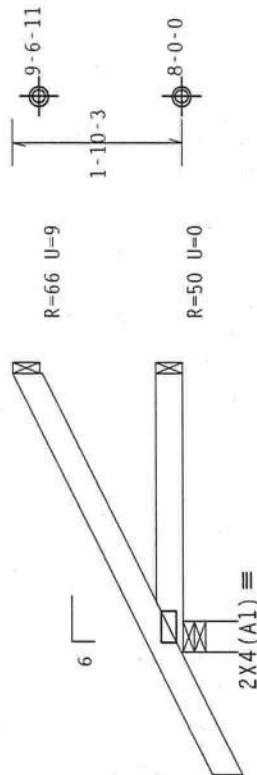
FL / - 4 / - / - R / -	Scale = .5" / Ft.
TC LL 20.0 PSF	REF R487 -- 21864
TC DL 10.0 PSF	DATE 04/13/12
BC DL 10.0 PSF	DRW HCUSR487 12104014
BC LL 0.0 PSF	HC-ENG SSB/WPF
TOT.LD. 40.0 PSF	SEQN- 283190
DUR.FAC. 1.25	
SPACING 24.0"	JREF- 1UL8487_Z01

1120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCp1 (+/-)=0.18

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

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

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.



$\leftarrow 1-4-0 \rightarrow$
 $\leftarrow 3-0-0 \text{ Over } 3 \text{ Supports} \rightarrow$

R=244 U=0 W=4"
RL=35

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

PLT TYP. Wave

10:03 11.0209 21 QTY 4

Scale = .5"/Ft.

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The following practices are to be followed to ensure proper erection and bracing of the trusses:

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Order. Do not alter details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal above the drawing or cover plate listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer. This Job Order is not to be used for any other purpose. ITW-BCG, www.itw.com; TPI, www.tpi.net.org; NCA, www.sbcindustry.com; CE, www.1655africa.org

ALPINE

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

Haines City, FL 33844
FL COA #0 278

JREF- 1UL8487 Z01

SPACING 24.0"

04/13/2012

• **not**

Top	chord	2x4	SP	M-30
Bot	chord	2x4	SP	M-30

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

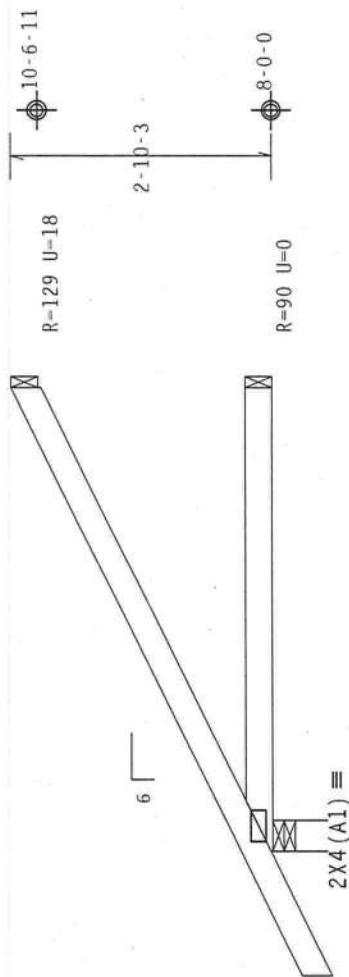
Roof overhang supports 2.00 psf soffit load.

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.

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

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.



1-4-0

5-0-0 Over 3 Supports

R=316 II=0 W=4"

RL=52/-21

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

PLT TYP. Wave

10.03.16 020024 QTY

Scale = .5"/Ft.

[illegible]

REF R487-- 21866

TC DI 10 0 DCE

DATE 04/13/12

BC 01 10 0 DCE

DRW HCUSR487 12104016

BC 11 00 BCE

HC-ENG SSB/WPF

TOTAL	10	40	0	PCE

SEQN-	283205
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125

CONTRACT NO. CA 00

JREF- 1UL8487_Z01

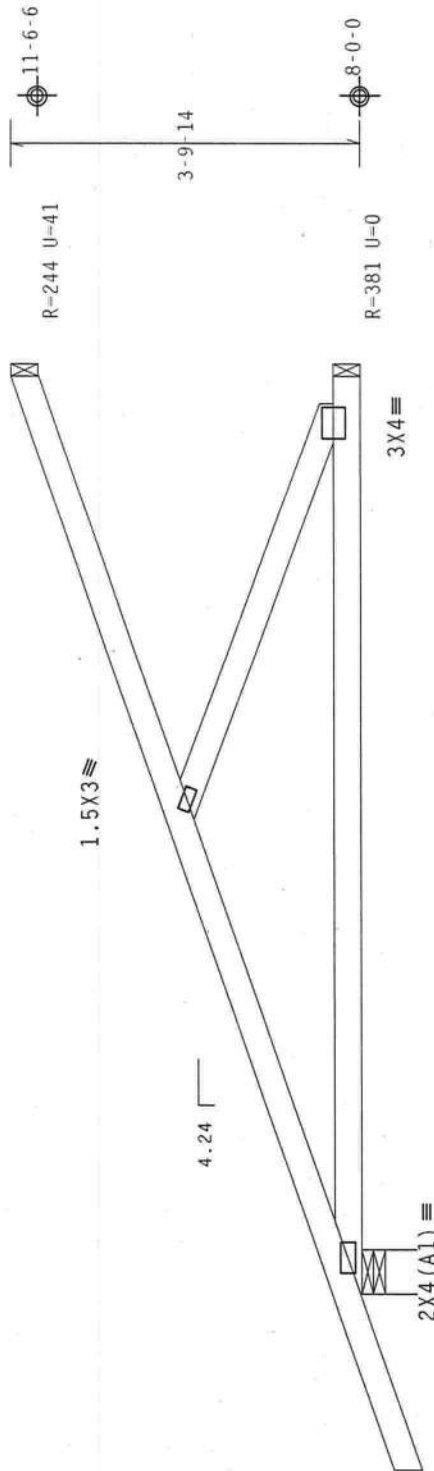
TABLE 1. *Continued*

2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 26

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

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



$\leftarrow 1-10-10 \rightarrow$
 $\leftarrow 9-10-13 \text{ Over } 3 \text{ Supports} \rightarrow$
 $R=439 \quad I=5 \quad W=5,657''$

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

Scale = .5"/Ft.

TC LL	20.0	PSF	REF R487-- 21867
TC DL	10.0	PSF	DATE 04/13/12
BC DL	10.0	PSF	DRW HCUR487 12104017
BC LL	0.0	PSF	HC-ENG SSB/WPF
TOT.LD.	40.0	PSF	SEQN- 283199
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UL8487_Z01

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The contractor is responsible for providing the proper bracing and temporary bracing per BCSP. The contractor is responsible for performing these functions. Installers shall provide temporary bracing per BCSP. The contractor shall have a properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Conditions shown for permanent lateral restraint shall have bracing installed per BCSP sections 83, 87 or B10, as applicable.

ITW Building Components Group, (ITWBCG) shall not be responsible for any deviation from the manufacturer's design or any failure to build the truss in conformance with ANSI/IPI 1, or for handling, shipping, installation or packaging of trusses. Apply plates to each face of truss and position as shown above and on the Joint Detail. Do not alter the design or details, unless noted otherwise. Refer to drawings 1600-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information, contact the manufacturer. This job's design was prepared by: ITWBCG; www.itwbcg.com; TPI; www.tpi.net.org; WCA; www.bciIndustry.com; BEC; www.becusa.org



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

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

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

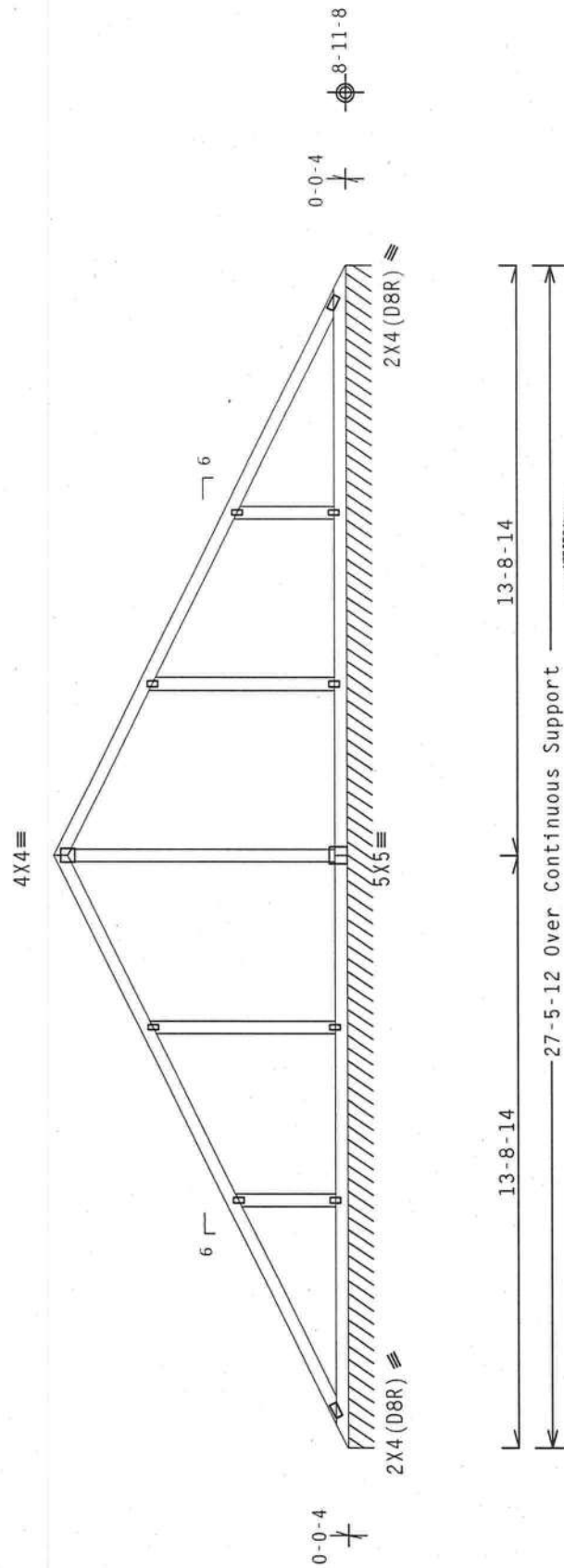
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

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

See DWG VAL160100212 for valley details.



R=82 PLF U=0 PLF W=27-5-12

RL=3/-3 PLF

Note: All Plates Are 1.5X3 Except As Shown.

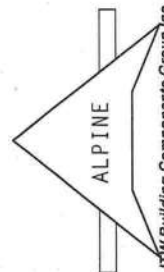
Design Crit: FBC2010Res/TPI-2007(STP)

PLT TYP. Wave

design crit: $FT/RT=10\%(0$

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses shall follow the latest edition of BCSP (Building Component Safety Information, by IPT and NITCA) for bracing practices prior to performing these functions. Installers shall provide temporary bracing for BCSP unless noted otherwise. No chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Conditions shown for permanent lateral restraint shall have bracing installed per BCSP sections 83, 87 or 810, as applicable.

[illegible]

Haines City, FL 33844
FL COA #0 278



FL/-/4/-/-/R/-		Scale =.25"/Ft.
TC LL	20.0 PSF	REF R487-- 21868
TC DL	10.0 PSF	DATE 04/13/12
BC DL	10.0 PSF	DRW HCURS487 12104018
BC LL	0.0 PSF	HC-ENG SSB/WPF
TOT.LO.	40.0 PSF	SEQN- 283144
DUR.FAC.	1.25	
SPACING	24.0"	REF- 1UL8487_Z01

(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. - V2 23'8"12 Valley)

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

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

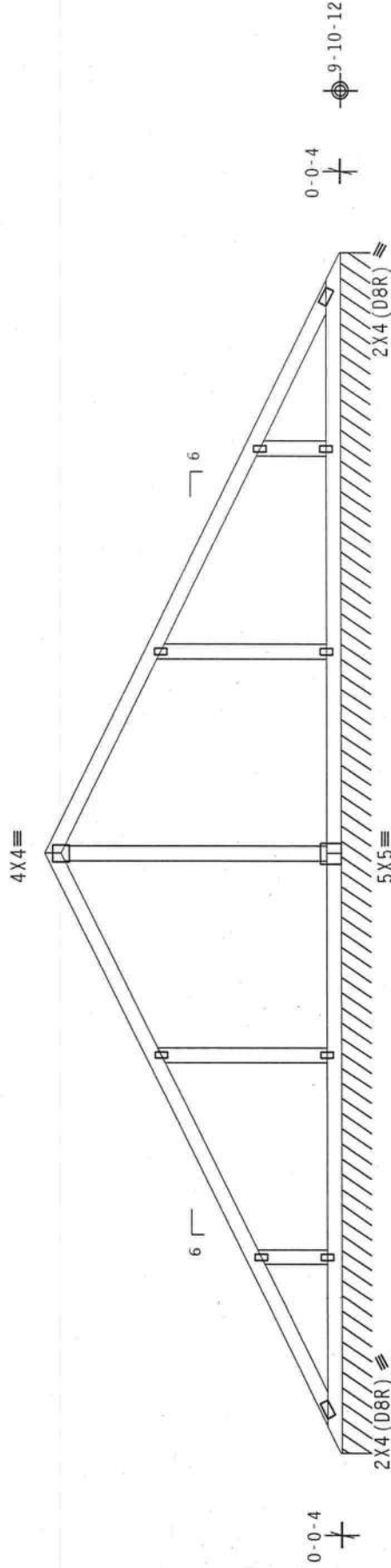
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

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

See DWG VAL160100212 for valley details.



11-10-6 23-8-12 Over Continuous Support 11-10-6

R-82 PLF U=0 PLF W-23-8-12
RL=3/-3 PLF

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007 (STD

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

10.03. No. 22839

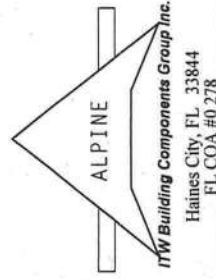
FL/-4/-/-R/-

Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R487--	21869
TC DL	10.0 PSF	DATE	04/13/12	
BC DL	10.0 PSF	DRW	HCSR487	12104019
BC LL	0.0 PSF	HC-ENG	SSB/WPF	
TOT.LD.	40.0 PSF	SEQN-	283149	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UL8487_Z01	



****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. It is the responsibility of the truss manufacturer to provide the latest edition of BCSI (Building Component Safety Information, by IPI and NICA) 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 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. The user of this design is responsible for the accuracy of the design and for the safety of the structure. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: IIN-BG: www.itwbcg.com; IPI: www.tpinet.org; NICA: www.nicaindstry.com; ICC: www.iccsafe.org



(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City, - V4 15'8"12 Valley)

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

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

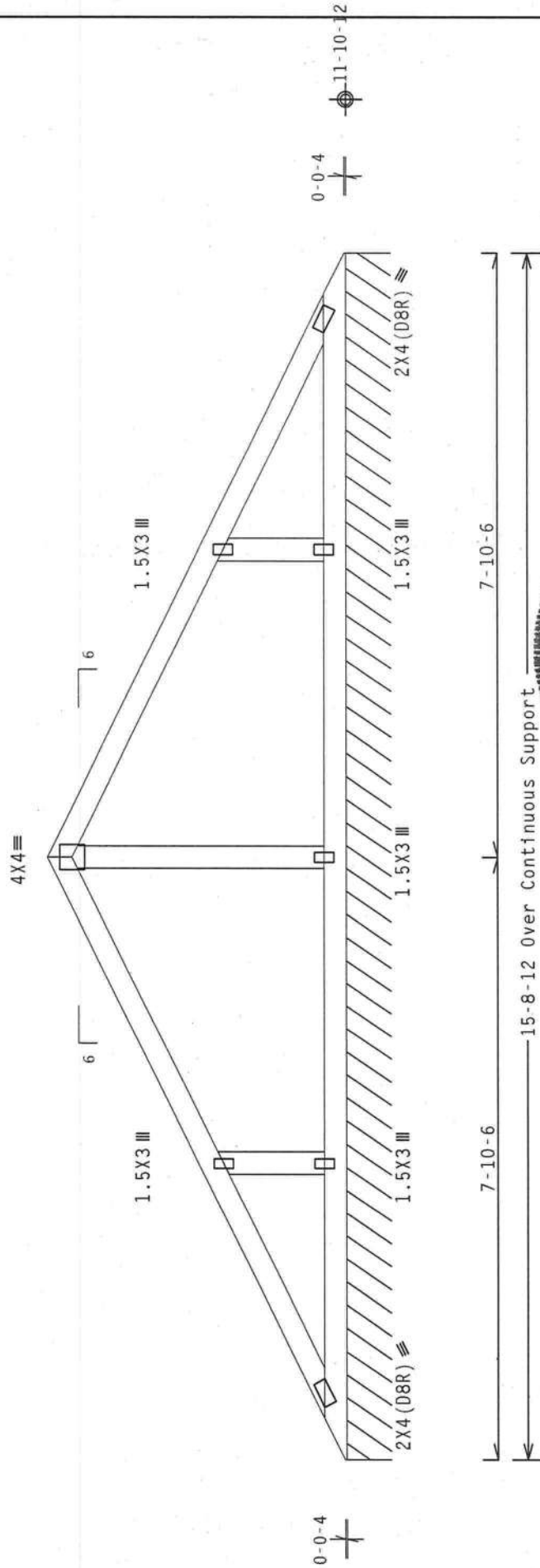
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

See DWG VAL160100212 for valley details.

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



R-82 PLF U-0 PLF W-15-8-12
RL-3/-3 PLF

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

PLT TYP. Wave

Scale = .5" / Ft.

REF R487-- 21871

DATE 04/13/12

DRW HCUSR487 12104021

HC-ENG SSB/WPF

SEQN- 283159

DUR.FAC. 1.25

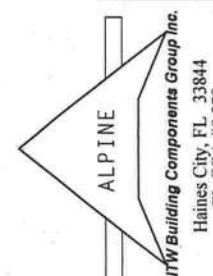
SPACING 24.0"

JREF- 1UL8487_Z01

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by IPI and NICA) practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Occasions shown for permanent lateral restraint shall have bracing installed per BCSI sections B5, B7 or B10, as applicable.

IITW Building Components Group Inc. (IITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with these drawings and specifications, or for any other cause. The user of this drawing is responsible for obtaining all necessary permits and approvals. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: IITW-BCG: www.iitwbcg.com; IPI: www.tpinet.org; NICA: www.sbctindustry.com; ICCI: www.icc-safe.org



(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City,

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

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

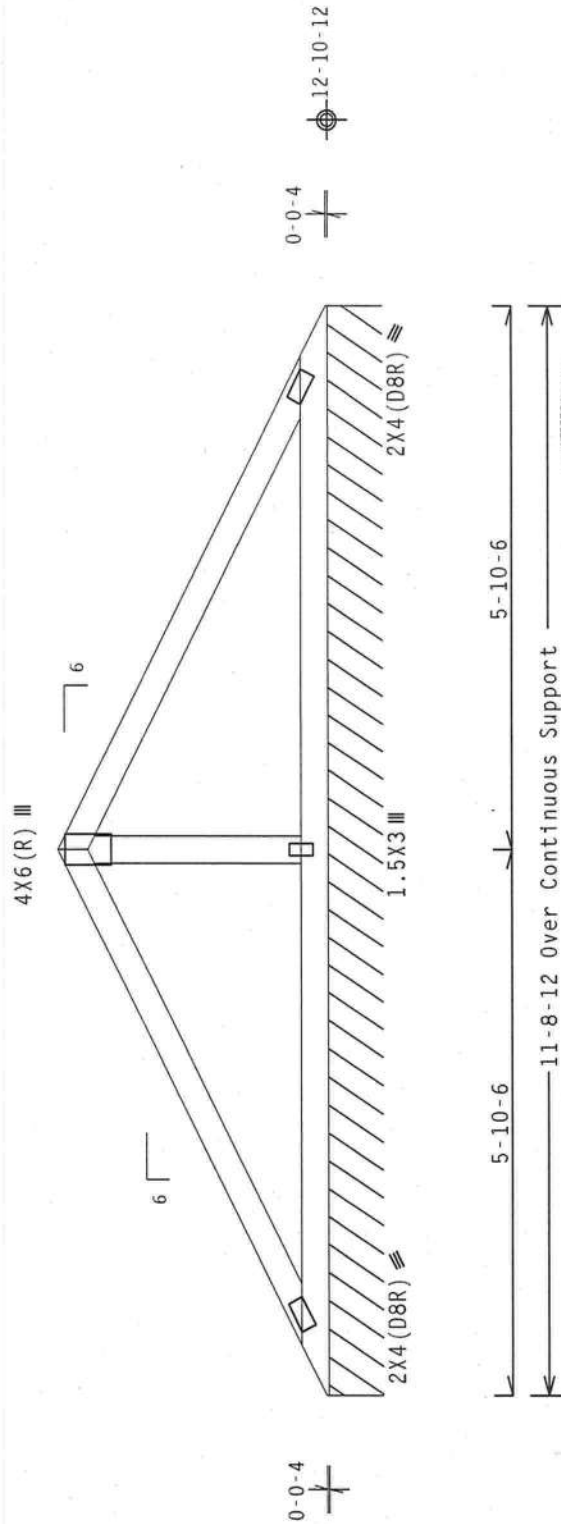
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MMWFRS 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=5.0 psf, wind BC DL=5.0 psf. GCpt1 (+/-)=0.18

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

See DWG VAL160100212 for valley details.



R=82 PLF U=0 PLF W=11-8-12
RL=3/-3 PLF

PLT TYP. Wave

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

Scale = .5"/Ft.

[illegible]

(12-077--LAKE CITY INDUSTRIES Varney Garage Add. -- 655 NW Lona Loop Lake City. - V6 7'8"12 Valley)

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

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

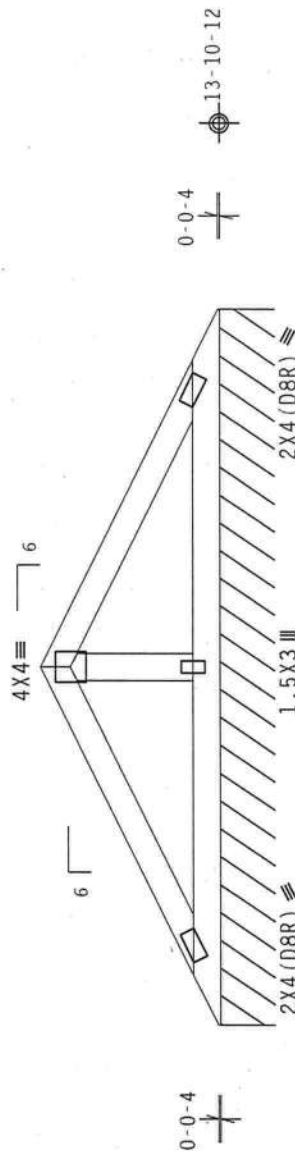
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MMFRS loads based on trusses located at least 15.02 ft. from roof edge.

120 mph wind, 15.02 ft mean hgt, ASCE 7-10, CLOSED bldg, located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

See DWG VAL160100212 for valley details.



3-10-6
7-8-12 Over Continuous Support

R=82 PLF U=0 PLF W=7-8-12
RL=3/-3 PLF

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

PLT TYP. Wave

1003. No. 22829

Scale = .5" / Ft.

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

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R487-- 21873

DATE 04/13/12

DRW HCUSR487 12104023

HC-ENG SSB/WPF

SEQN- 283165

JREF- 1UL8487_Z01

04/13/2012

WALTER P. FINN
LICENSE
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Review and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing, bracing or trussing. Apply plates to all connections. Refer to drawing 1000-2 for standard plate positions. On a seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org

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

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

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

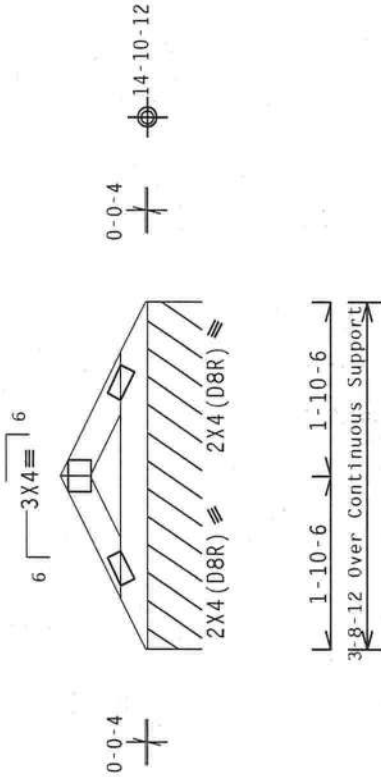
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MMFRS loads based on trusses located at least 15.52 ft. from roof edge.

120 mph wind, 15.52 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

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

See DWG VAL160100212 for valley details.



PLT TYP. Wave

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

10.03.No.00000000

FL/-/4/-/-R/- Scale = .5" / Ft.

 ALPINE Haines City, FL 33844 FL COA #0278	10.03.No.00000000		QTY	FL/-/4/-/-R/-	REF	R487--	21874		
	10.03.No.00000000		QTY	TC LL	20.0 PSF	DATE	04/13/12		
	10.03.No.00000000		QTY	TC DL	10.0 PSF	DRW	HCUSR487 12104024		
	10.03.No.00000000		QTY	BC DL	10.0 PSF	HC-ENG	SSB/WPF		
	10.03.No.00000000		QTY	BC LL	0.0 PSF	SEQN-	283168		
			TOT.LD.				40.0 PSF	DUR.FAC.	1.25
			SPACING				24.0"	JREF-	1UL8487_Z01

WALTER P. FINN
LICENSE
10.03.No.00000000
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
04/13/2012

IMPORTANT** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 85, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing, or bracing. ITWBCG shall not be responsible for any deviation from the design shown on this drawing. 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.itwbcg.com; TPI: www.tpiinst.org; WCA: www.sbcindustry.com; ICCI: www.iccsafe.org

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

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

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

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

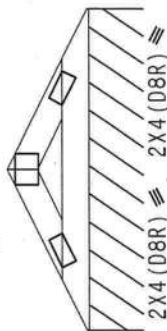
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

See DWG VAL160100212 for valley details.

3X4=

6



0-0-4

0-0-4

0-0-4

1-8-14 1-8-14
3'-5-12 Over Continuous Support

R=82 PLF U=0 PLF W=3-5-12

PLT TYP. Wave

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

Scale = .5" / Ft.

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

10-03. No 22839

10-03. No 22839

10-03. No 22839

10-03. No 22839

10-03. No 22839

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**HARMING** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL COMPACTORS INCLUDING INSTALLERS. **IMPURITANT** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing, bracing or fastening of trusses. Apply plates to roof faces of trusses in accordance with BCSI section 83.1. Do not use standard plate positions on a truss on the drawing or cover page listing this design. The solubility and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: ITN-B00: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.bcsiindustry.com; ICC: www.iccsafe.org	TC LL	20.0 PSF	REF	R487--	21875
	TC DL	10.0 PSF	DATE	04/13/12		
	BC DL	10.0 PSF	DRW	HCUSR487	12104025	
	BC LL	0.0 PSF	HC-ENG	SSB/WPF		
	TOT.LD.	40.0 PSF	SEQN-	283171		
04/13/2012	DUR.FAC.	1.25				
	SPACING	24.0"	JREF-	1UL8487_Z01		

Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00
 Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Bracing Group Species and Grades:														
Group A:														
<table border="1"> <thead> <tr> <th colspan="3">Spruce-Pine-Fir</th> </tr> </thead> <tbody> <tr> <td>#1 / #2</td> <td>Standard</td> <td></td> </tr> <tr> <td>#3</td> <td>Stud</td> <td></td> </tr> </tbody> </table>			Spruce-Pine-Fir			#1 / #2	Standard		#3	Stud				
Spruce-Pine-Fir														
#1 / #2	Standard													
#3	Stud													
<table border="1"> <thead> <tr> <th colspan="3">Hem-Fir</th> </tr> </thead> <tbody> <tr> <td>#2</td> <td>Stud</td> <td></td> </tr> <tr> <td>#3</td> <td>Standard</td> <td></td> </tr> </tbody> </table>			Hem-Fir			#2	Stud		#3	Standard				
Hem-Fir														
#2	Stud													
#3	Standard													
<table border="1"> <thead> <tr> <th colspan="3">Douglas Fir-Larch</th> </tr> </thead> <tbody> <tr> <td>#3</td> <td></td> <td></td> </tr> <tr> <td>Stud</td> <td></td> <td></td> </tr> <tr> <td>Standard</td> <td></td> <td></td> </tr> </tbody> </table>			Douglas Fir-Larch			#3			Stud			Standard		
Douglas Fir-Larch														
#3														
Stud														
Standard														
<table border="1"> <thead> <tr> <th colspan="3">Southern Pine***</th> </tr> </thead> <tbody> <tr> <td>#3</td> <td></td> <td></td> </tr> <tr> <td>Stud</td> <td></td> <td></td> </tr> <tr> <td>Standard</td> <td></td> <td></td> </tr> </tbody> </table>			Southern Pine***			#3			Stud			Standard		
Southern Pine***														
#3														
Stud														
Standard														
Group B:														
<table border="1"> <thead> <tr> <th colspan="3">Hem-Fir</th> </tr> </thead> <tbody> <tr> <td>#1 & Btr</td> <td></td> <td></td> </tr> <tr> <td>#1</td> <td></td> <td></td> </tr> </tbody> </table>			Hem-Fir			#1 & Btr			#1					
Hem-Fir														
#1 & Btr														
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Southern Pine***														
#1														
#2														

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

Gable Truss Detail Notes:

Load deflection criterion is L/240.

Provide uplift connections for 35 plf over continuous bearing (5 net lf dead load)

Table 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' oc.

In 18" end zones and 4" o.c. between zones.

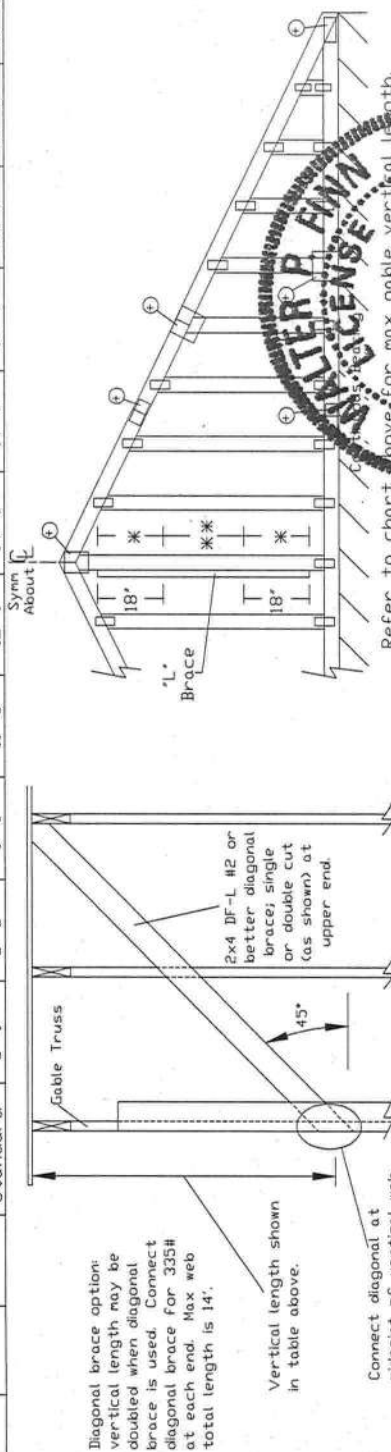
* for (2) L braces: space nails at 3 o.c. in 18" end zones and 6" o.c. between zones.

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

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	2X4X

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

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



Refer to chart above for max gable vertical length.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT - CONSULT THE DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCIS (Building Component Safety Information, by TPI and VTCA) for the practices prior to performing these functions. Installers shall provide temporary bracing for all trusses until permanent bracing is in place. Trusses shall have a properly attached structural sheathing and all chord shall have a properly attached raftering. Locals shall be provided for permanent lateral bracing of all trusses. BCIS (Building Component Safety Information, by TPI and VTCA) shall be referred to for details, unless noted otherwise on the drawings. Refer to drawings 1650-Z for standard plate positions.

ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing. Failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of 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:
TWBCG: www.itwbcra.com TP: www.tpinst.org VICA: www.sbindustry.org ICC: www.iccsafe.org

No. 22839

A circular professional engineer seal for the State of Florida. The outer ring contains the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the number "12549". A signature, "J. B. Smith", is written across the seal in black ink.

04/13/2012

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-10-GABI2015

DATE 2/14/12

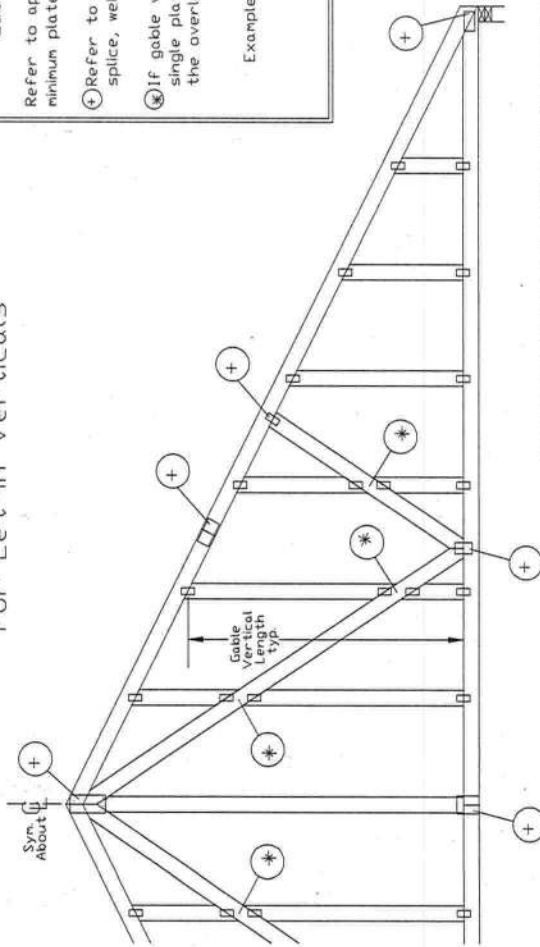
DRWG A12015ENC100212



Building Components Group Inc.

Earth City, MO 63045

Gable Detail For Let-in Verticals



Gable Truss Plate Sizes

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

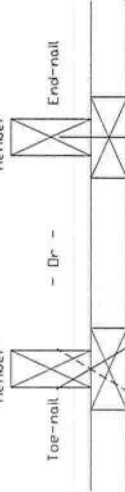
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



T Reinforcement Attachment Detail
T Reinforcing Member



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

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

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

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x 3.1min) Nails at 4" o.c. plus

(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3.1min) Toenails at 4" o.c. plus

(4) toenails in the top and bottom chords.

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

ASCE 7-98 Gable Detail Drawings

A13015980109, A12015980109, A11015980109, A10015980109,

A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 Gable Detail Drawings

A13015020109, A12015020109, A11015020109, A10015020109,

A13030020109, A12030020109, A11030020109, A10030020109

ASCE 7-05 Gable Detail Drawings

A13015050109, A12015050109, A11015050109, A10015050109,

A13030050109, A12030050109, A11030050109, A10030050109

ASCE 7-10 Gable Detail Drawings

A11015ENC100212, A12015ENC100212, A13015ENC100212,

A18015ENC100212, A20015ENC100212, A140300150109,

A115300150109, A120300150109, A130300150109, A140300150109,

A180300150109, A200300150109, A140300150109

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

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 the latest edition of BCSI (Building Component Safety Information, by TPI and VITCA) for best practices prior to performing these functions. Installers shall provide temporary bracing for all trusses until they are permanently braced. Locations shown for permanent lateral bracing of webs shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing of each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing or failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec2.

ITV BCSI www.bcsig.com, TPI www.tpinet.org, VITCA www.vitcadustry.org, ICC www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

No. 22839



REF LET-IN VERT

DATE 2/16/12

DRWG GBLLETIN0212

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

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

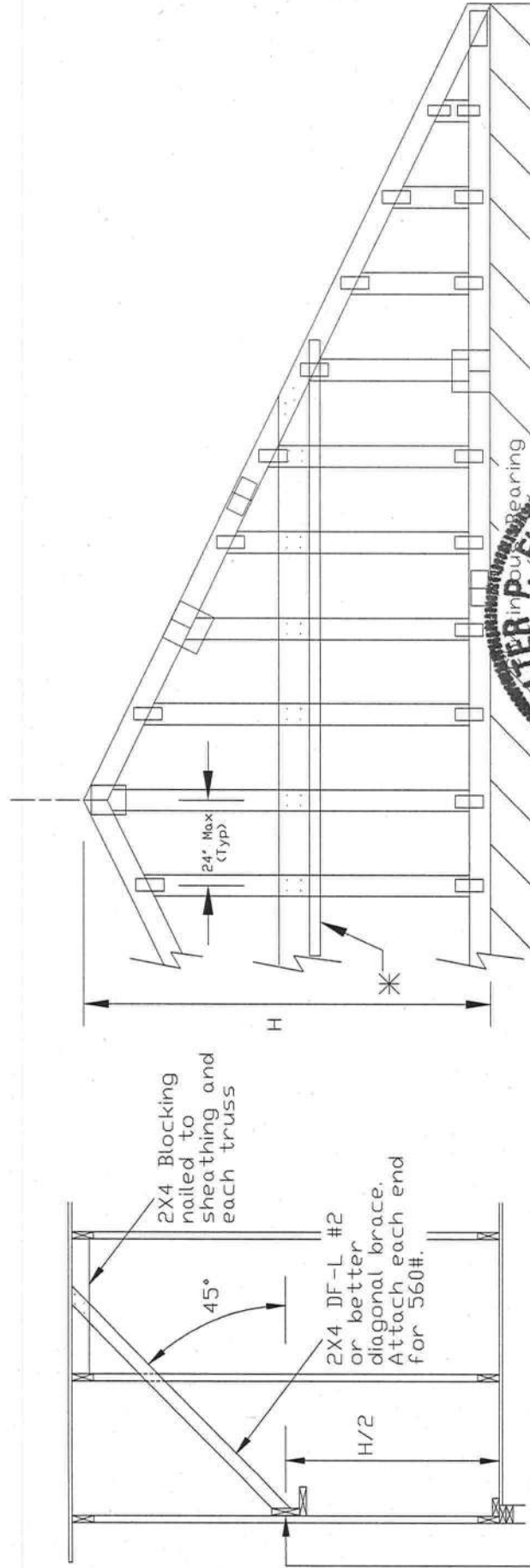
120 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

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

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

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

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



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



ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, only
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 Sec2.
ITWBCG www.itwbcg.com TPI www.tpinet.org VICA www.vicaindustry.org ICC www.iccsafe.org



Earth City, MO 63045

REF	GE	WHALE
DATE	2/14/12	
DRWG	GABRST100212	
MAX. TOT. LD. 60 PSF		
MAX. SPACING		

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

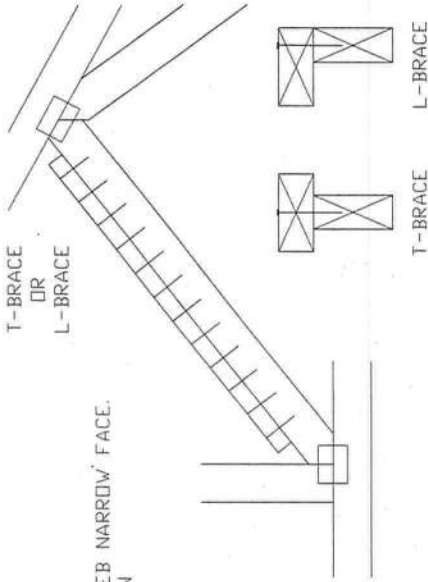
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

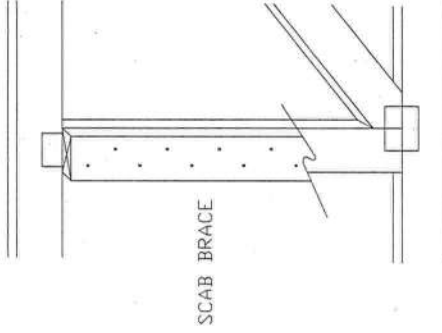
T-BRACING
OR
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3", MIN) NAILS.
AT 6" O.C.
BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3", MIN) NAILS.
AT 6" O.C.
BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information, by IPJ and VITCO) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless otherwise specified, top chord shall have properly attached structural panels and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B5 & B7. See this job's general notes page for more information.

IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing, bracing or erecting of trusses. ITWBCG connector plates are made of 6061B16343 AS9100 aluminum alloy, 1/4" thick, galv. steel. Apply plates to each face of truss, positioned as shown and on Joint Details.

A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2.

ITW-BG www.itwbg.com, TPI www.tpinet.com, VITCO www.structure.com, IEC www.icsafe.org



Building Components Group Inc.

Earth City, MO 63045

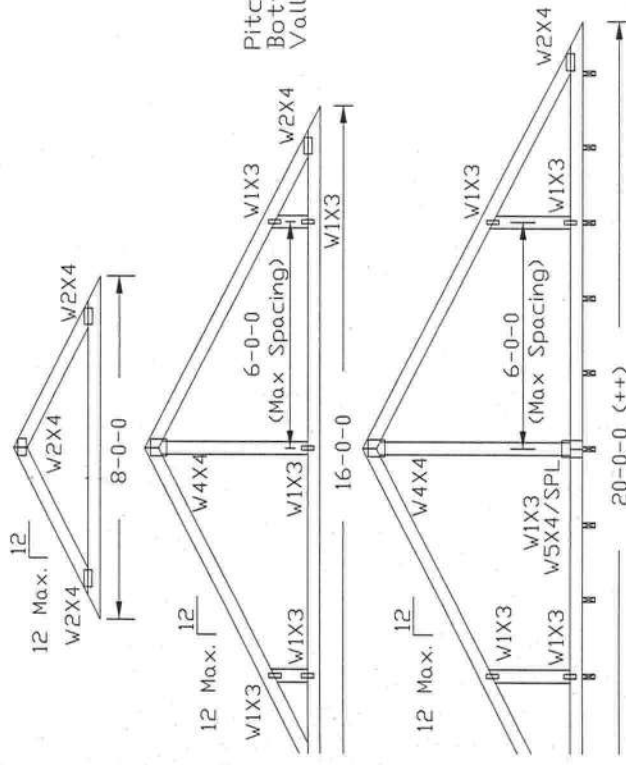
TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCLBSUB0109
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Valley Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
 Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
 Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

*** Attach each valley to every supporting truss with:
 (2) 16d box (0.135" x 3.5") nails toe-nailed for
 ASCE 7-10 160 mph. 30' Mean Height, Enclosed
 Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
 Or
 ASCE 7-10 140 mph. 30' Mean Height, Enclosed
 Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Cut From 2x6 or
 larger as req'd



Supporting trusses at 24" o.c. maximum spacing.

Unless specified on engineer's sealed design, apply 1x4 "T" brace, 80% length of web, same species and SRB grade or better, attached with 8d box (0.113" x 2.5") nails at 6" o.c., or continuous lateral bracing, equally spaced, for vertical valley webs greater than 7'-9".

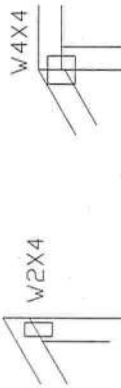
For verticals over 10'-0" tall, apply (2) 1x4 "T" braces, 80% length of web, same species and SRB grade or better, attached with 8d box (0.113" x 2.5") nails @ 6" o.

Top chord of truss beneath valley set must be braced with properly attached, rated sheathing applied prior to valley truss installation.

Or
 Purlins at 24" o.c. or as otherwise specified on Engineer's sealed design
 Or
 By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.
 ++ Larger spans may be built as long as the vertical height does not exceed 14'-0".

Bottom chord may be square or pitched cut as shown.

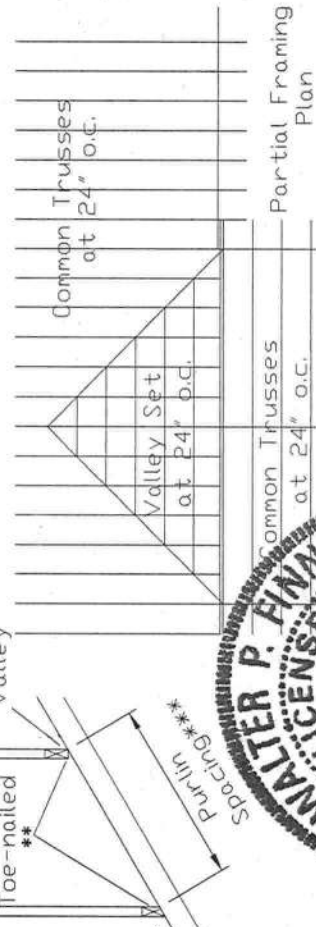


Pitched Cut
 Bottom Valley

Square Cut
 Bottom Valley

Stubbed Valley
 End Detail

Optional Hip
 Joint Detail



WALTER P. FINN
 LICENSE

No. 22839
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 04/13/2012

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING
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 ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing. Failure to build the truss in accordance 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 Sec2.
 ITWBCS www.itwbcg.com, TPI www.tpi.com, VITCA www.vitca.com, ITW www.itw.com

TW
 Building Components Group Inc.

Earth City, MO 63045

TC	LL	30	40PSF	REF	VALLEY DETAIL
TC	DL	20	15	7PSF	DATE 2/14/12
BC	DL	10	10	10 PSF	DRWG VAL160100212
BC	LL	0	0	0 PSF	
TOT.	L.D.	60	55	57PSF	
DURFAC.	1.25/1.33	1.15	1.15		
SPACING			24.0"		

Notice of Treatment 30087

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 363 SE 5TH

City: LAKE CITY **Phone:** 752-1703

Site Location: Subdivision _____

Lot # _____ **Block#** _____ **Permit #** _____

Address: 655 NW LONA L.

Product used

Active Ingredient

% Concentration

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

GARAGE

1200

190

100

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

5-14-12

Date

10:05

Time

DAVID FULLER

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



30087

02391-013