73

JULIUS LEE PE.

RE: 495288 -

1109 COASTAL BAY BLVD, BOYNTON BEACH, FL 33435

Site Information:
Project Customer: Bocanegra Addition Project Name: 495288 Model:
Lot/Block: Subdivision:
Address: 129 SW Erin Glen
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: Unknown at time of seal License #: Unknown at time of seal
Address: Unknown at time of seal
City: Unknown at time of seal State: Unknown at time of seal

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
FBC 2010/TPI 2007
ASCE 7-10 Wind Speed: 130 mph Design Program: MiTek 20/20 7.3
Roof Load: 32.0 psf Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I6835547	CJ01	6/8/013	18	I6835564	T11	6/8/013
2	I6835548	CJ02	6/8/013	19	I6835565	T12	6/8/013
3	I6835549	CJ03	6/8/013	20	I6835566	T13	6/8/013
4	I6835550	EJ01	6/8/013	21	I6835567	T14	6/8/013
5	I6835551	EJ02	6/8/013	22	I6835568	T14G	6/8/013
6	I6835552	EJ03	6/8/013	23	I6835569	T15	6/8/013
7	I6835553	HJ01	6/8/013				
8	I6835554	T01	6/8/013				
9	I6835555	T02	6/8/013				
10	I6835556	T03	6/8/013				
11	I6835557	T04	6/8/013				
12	I6835558	T05	6/8/013				
13	I6835559	T06	6/8/013				
14	I6835560	T07	6/8/013				
15	I6835561	T08	6/8/013				
16	I6835562	T09	6/8/013				
17	I6835563	T10	6/8/013				

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Jax).

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2015.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.

JULIUS S.K. LEE
LICENSE
No 34869
STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 8,2013
Julius Lee

Job	Truss	Truss Type	Qty	Ply	
495288	CJ01	JACK-OPEN TRUSS	4	1	I6835547

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:54:57 2013 Page 1

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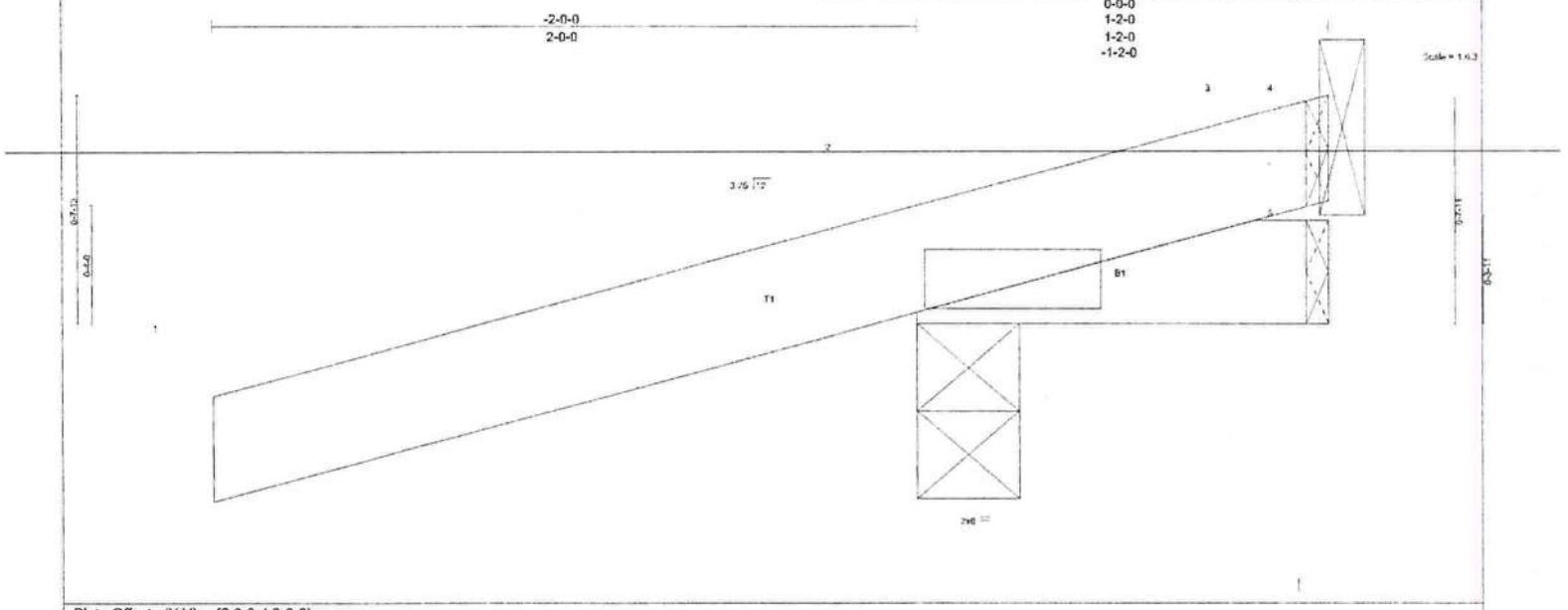

Plate Offsets (X,Y): [2:0-6-4,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 7 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=181/0-3-8 (min. 0-1-8), 3=-30/Mechanical
Max Horz 2=52(LC 8)
Max Uplift 2=-211(LC 8), 3=-39(LC 2)
Max Grav 2=221(LC 2), 3=55(LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2 and 39 lb uplift at joint 3.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	CJ02	Jack-Open Truss	4	1	I6835548

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:54:58 2013 Page 1

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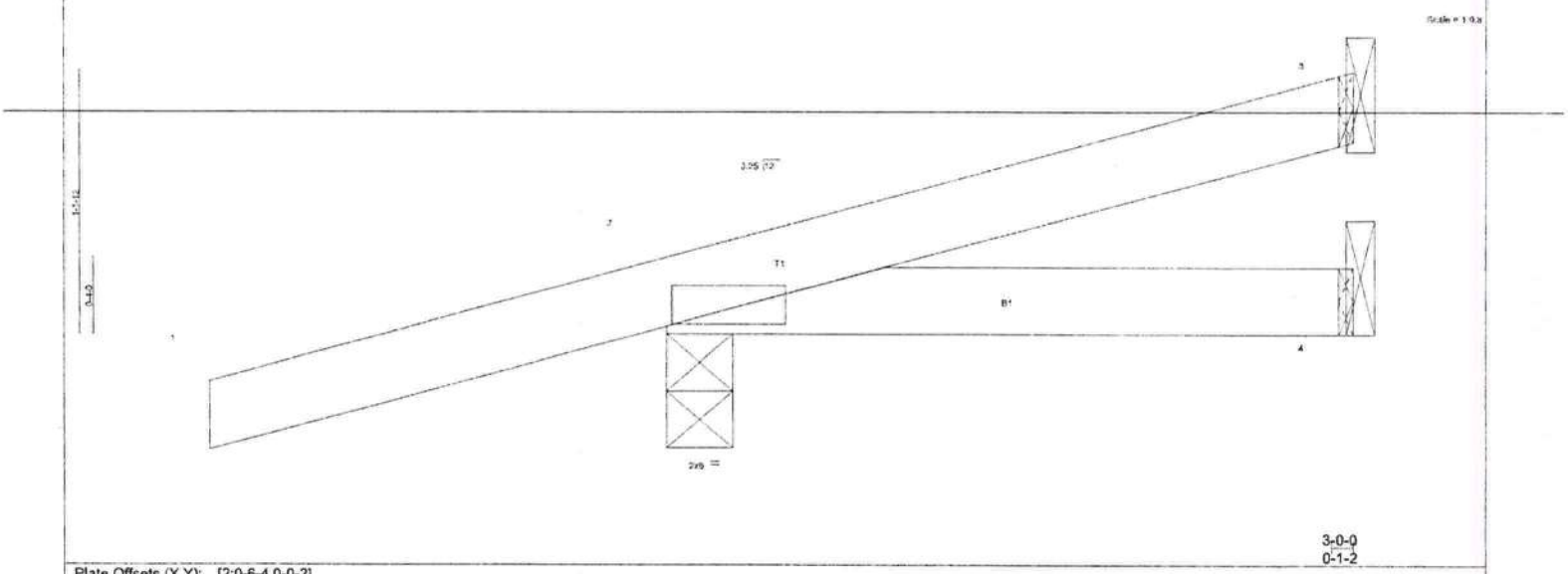

Plate Offsets (X,Y): [2:0-6-4,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 12 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=39/Mechanical, 2=194/0-3-8 (min. 0-1-8), 4=13/Mechanical
Max Horz 2=74(LC 8)
Max Uplift 3=-39(LC 8), 2=-225(LC 8), 4=-22(LC 9)
Max Grav 3=48(LC 2), 2=235(LC 2), 4=32(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3, 225 lb uplift at joint 2 and 22 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	CJ03	Jack-Open Truss	4	1	I6835549

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:54:59 2013 Page 1

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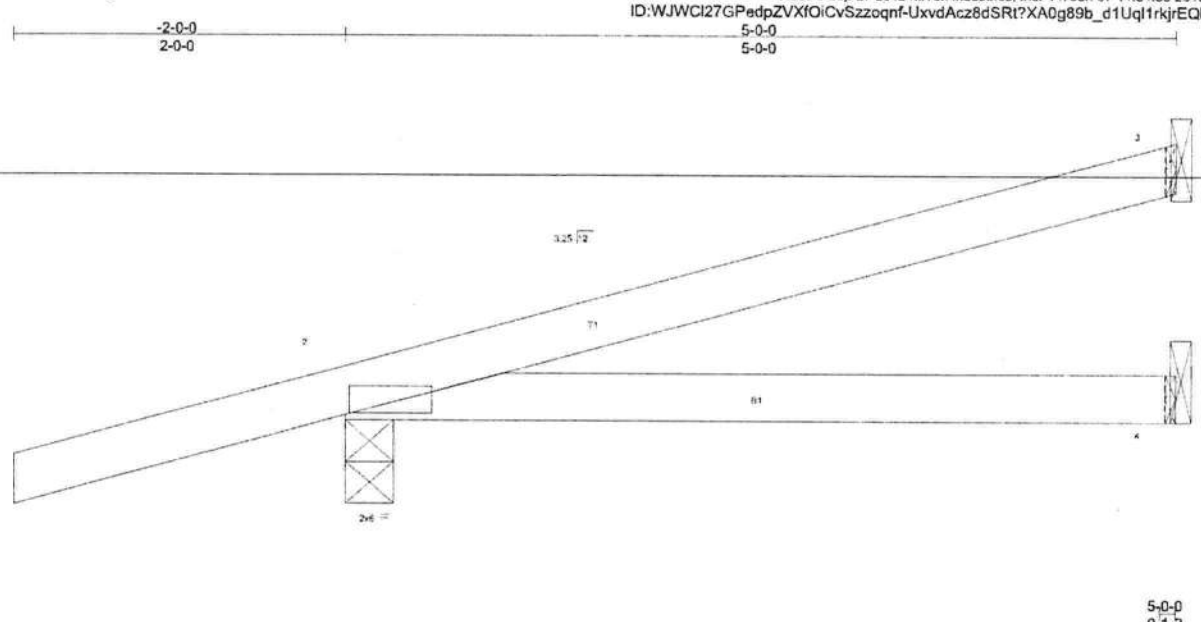

Plate Offsets (X,Y): [2:0-6-4,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.07	4-7	>847	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.23	Vert(TL)	0.06	4-7	>984	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 18 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=78/Mechanical, 2=251/0-3-8 (min. 0-1-8), 4=26/Mechanical
Max Horz 2=100(LC 8)
Max Uplift3=-78(LC 8), 2=-280(LC 8), 4=-38(LC 8)
Max Grav 3=95(LC 2), 2=302(LC 2), 4=56(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-317/604
BOT CHORD 2-4=-698/355

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 3, 280 lb uplift at joint 2 and 38 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835550
495288	EJ01	Jack-Partial Truss	7	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:55:00 2013 Page 1

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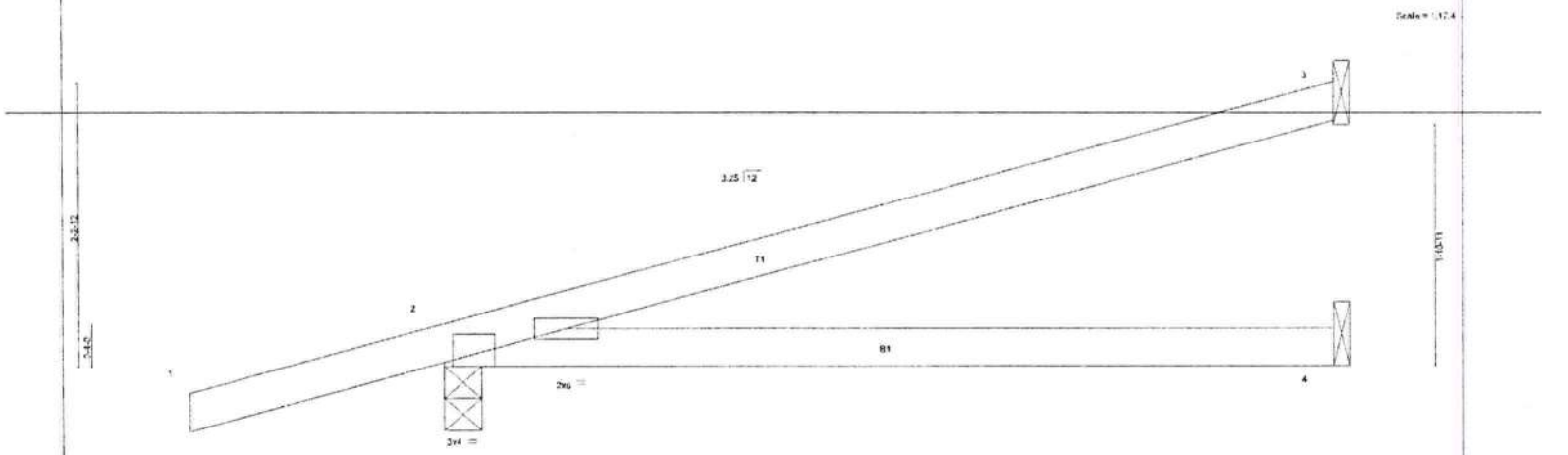

Plate Offsets (X,Y): [2:0-0-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.25	4-7	>327	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	0.22	4-7	>382	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=112/Mechanical, 2=315/0-3-8 (min. 0-1-8), 4=35/Mechanical
Max Horz 2=91(LC 8)
Max Uplift 3=-74(LC 8), 2=-256(LC 8), 4=-49(LC 8)
Max Grav 3=137(LC 2), 2=377(LC 2), 4=79(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-771/1490
BOT CHORD 2-4=-1689/869

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3, 256 lb uplift at joint 2 and 49 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	EJ02	Jack-Open Truss	2	1	I6835551

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:55:01 2013 Page 1

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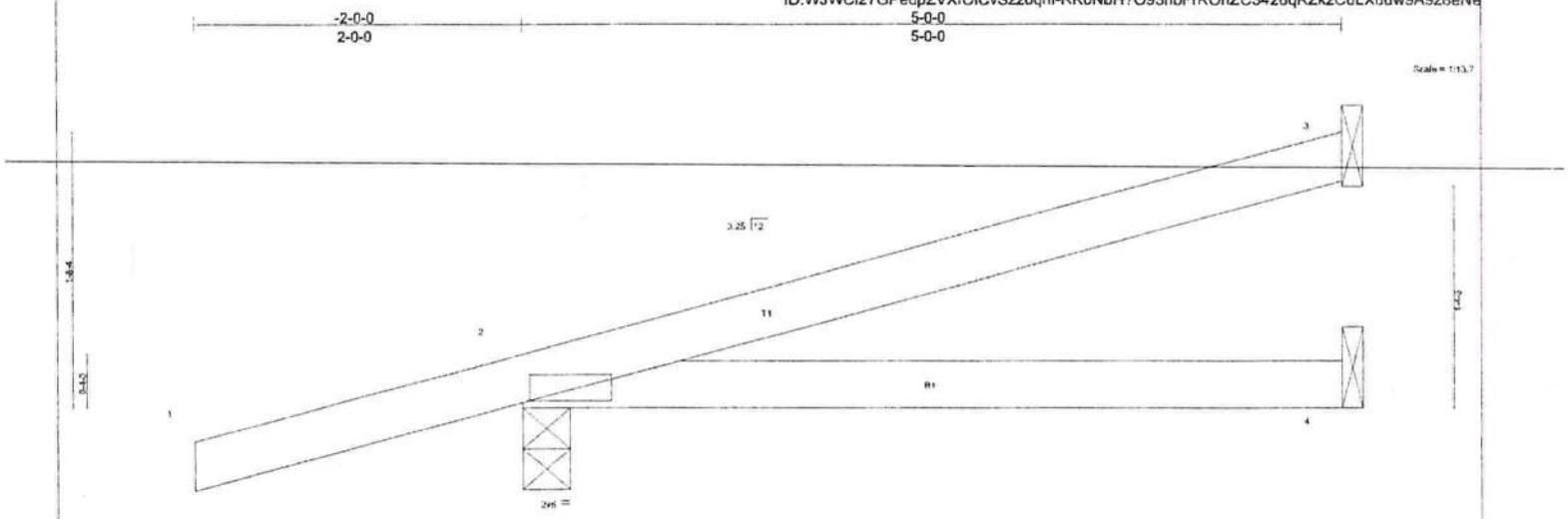

Plate Offsets (X,Y): [2:0-0-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.03	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 18 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=78/Mechanical, 2=251/0-3-8 (min. 0-1-8), 4=26/Mechanical
Max Horz 2=100(LC 8)
Max Uplift3=-74(LC 12), 2=-214(LC 8)
Max Grav 3=95(LC 2), 2=302(LC 2), 4=56(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-389/135
BOT CHORD 2-4=-205/435

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3 and 214 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	EJ03	MONO TRUSS	1	1	I6835552

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:55:02 2013 Page 1

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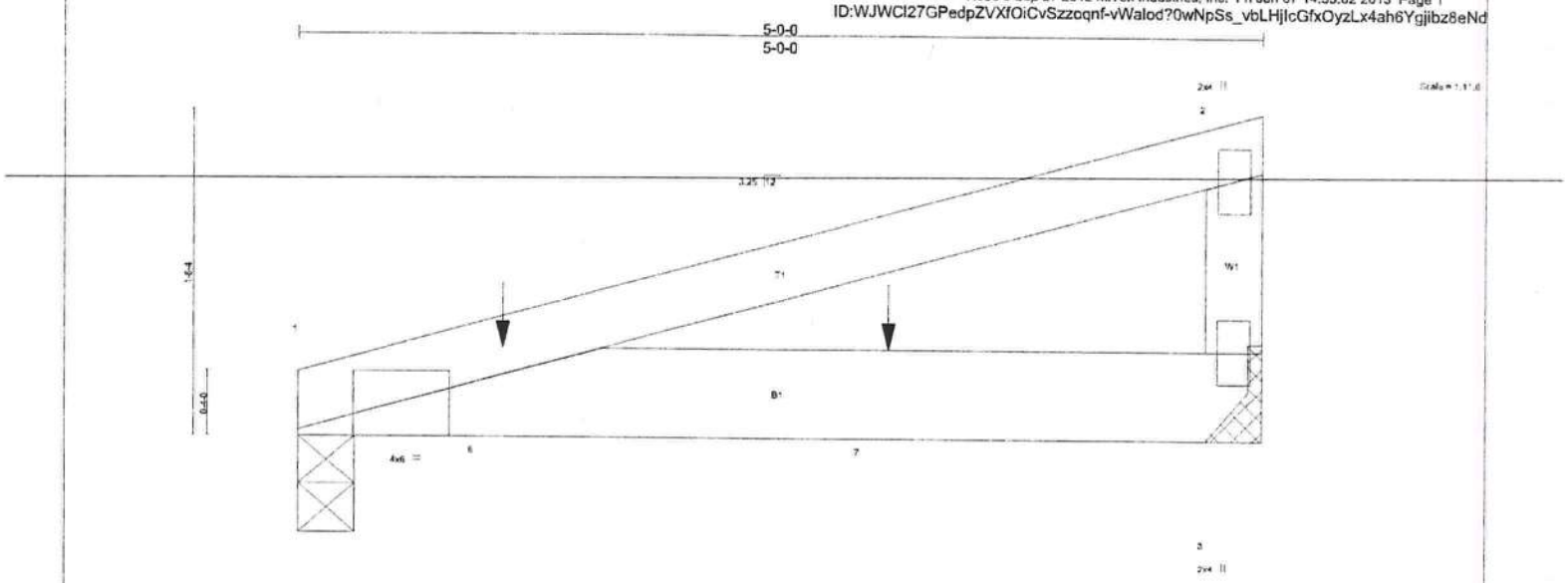

Plate Offsets (X,Y): [1:0-3-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.07	3-5	>830	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.13	3-5	>442	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 21 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-9 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=914/0-3-8 (min. 0-1-8), 3=667/Mechanical
Max Horz 1=62(LC 4)
Max Uplift 1=-331(LC 4), 3=-267(LC 4)
Max Grav 1=1085(LC 2), 3=792(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1174/311
BOT CHORD 1-6=-350/1112

NOTES (9-11)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 1 and 267 lb uplift at joint 3.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 788 lb down and 222 lb up at 1-0-12, and 788 lb down and 222 lb up at 3-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-10, 1-2=-44
Concentrated Loads (lb)
Vert: 6=-663(B) 7=-663(B)

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	HJ01	Diagonal Hip Girder	2	1	I6835553

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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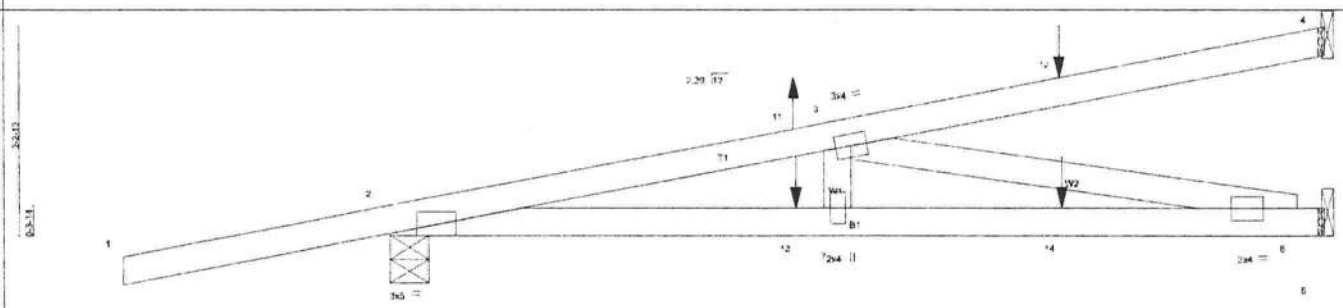
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-rviWDJ1HS_396l3zThlmhhkGdmf3PtG_as9qnUz8eNb

-2-9-15 2-9-15 | 4-9-0 4-9-0 | 9-10-13 5-1-13



4-9-0 4-9-0 | 9-9-11 5-0-11 | 9-10-13 0-1-2

Plate Offsets (X,Y): [2:0-3-6,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	0.14	6-7	>859	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.14	6-7	>871	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 42 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=124/Mechanical, 2=437/0-4-15 (min. 0-1-8), 5=191/Mechanical
Max Horz 2=127(LC 4)
Max Uplift4=-124(LC 4), 2=-493(LC 4), 5=-230(LC 4)
Max Grav 4=151(LC 2), 2=522(LC 2), 5=225(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-997/879, 3-11=-969/880
BOT CHORD 2-13=-927/868, 7-13=-927/968, 7-14=-927/968, 6-14=-927/968
WEBS 3-6=-986/944

NOTES (9-11)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 4, 493 lb uplift at joint 2 and 230 lb uplift at joint 5.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6 lb down and 39 lb up at 4-3-11, 6 lb down and 39 lb up at 4-3-11, and 41 lb down and 79 lb up at 7-1-10, and 41 lb down and 79 lb up at 7-1-10 on top chord, and 4 lb down and 32 lb up at 4-3-11, 4 lb down and 32 lb up at 4-3-11, and 26 lb down and 48 lb up at 7-1-10, and 26 lb down and 48 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44, 5-8=-10
Concentrated Loads (lb)
Vert: 11=9(F=5, B=5) 12=-67(F=-34, B=-34) 13=-6(F=-3, B=-3) 14=-32(F=-16, B=-16)

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T01	Hip Truss	1	1	I6835554

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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ID:WJWCl27GPedpZVXfOiCvSzzoqnf-J5GuQf2vDIC0jSeA0PG?EuHNGA0_8MM7pWuNJwz8eNa

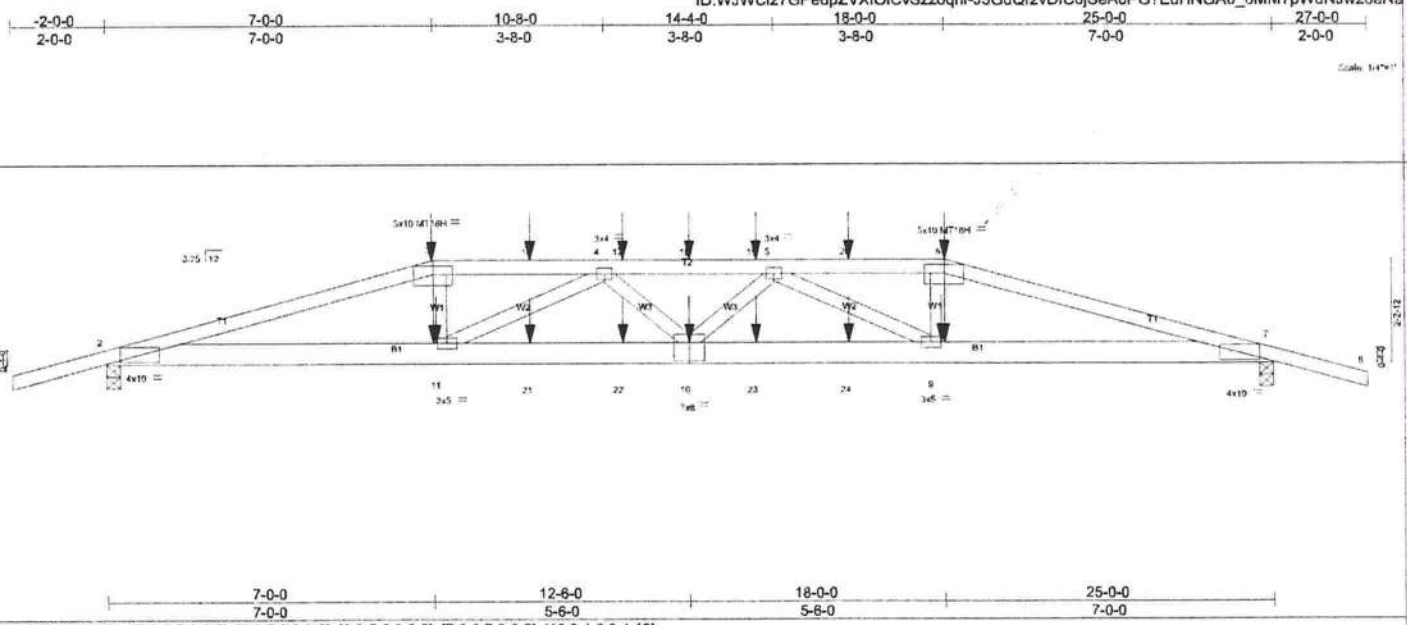


Plate Offsets (X,Y): [2:0-3-7,0-0-5], [3:0-5-0,0-2-2], [6:0-5-0,0-2-2], [7:0-3-7,0-0-5], [10:0-4-0,0-4-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.85	Vert(LL)	0.59	10	>500	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.72	10	>411	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(TL)	0.11	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 125 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* T2: 2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-2-8 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1292/0-3-8 (min. 0-1-13), 7=1328/0-3-8 (min. 0-1-14)
Max Horz 2=-37(LC 5)
Max Uplift2=-1133(LC 4), 7=-1174(LC 5)
Max Grav 2=1531(LC 2), 7=1575(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4527/3373, 3-16=-4395/3329, 4-16=-4395/3329, 4-17=-5387/4061, 17-18=-5387/4061, 18-19=-5387/4061, 5-19=-5387/4061, 5-20=-4544/3471, 6-20=-4544/3471, 6-7=-4687/3524
BOT CHORD 2-11=-3217/4329, 11-21=-3883/5295, 21-22=-3883/5295, 10-22=-3883/5295, 10-23=-3930/5347, 23-24=-3930/5347, 9-24=-3930/5347, 7-9=-3347/4483
WEBS 3-11=-723/848, 4-11=-1137/717, 5-9=-1005/600, 6-9=-665/783

NOTES (12-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1133 lb uplift at joint 2 and 1174 lb uplift at joint 7.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 80 lb up at 7-0-0, 83 lb down and 80 lb up at 9-0-12, 83 lb down and 80 lb up at 11-0-12, 83 lb down and 80 lb up at 12-6-0, 83 lb down and 80 lb up at 13-11-4, and 83 lb down and 80 lb up at 15-11-4, and 220 lb down and 211 lb up at 18-0-0 on top chord, and 244 lb down and 299 lb up at 7-0-0, 49 lb down and 59 lb up at 9-0-12, 49 lb down and 59 lb up at 11-0-12, 49 lb down and 59 lb up at 12-6-0, 49 lb down and 59 lb up at 13-11-4, and 49 lb down and 59 lb up at 15-11-4, and 244 lb down and 299 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
13) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835554
495288	T01	Hip Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:55:05 2013 Page 2

ID:WJWCl27GPedpZVXfOiCvSzzoqnf-J5GuQf2vDIC0jSeA0PG?EuHNGA0_8MM7pWuNJwz8eNa

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-44, 3-6=-44, 6-8=-44, 2-7=-10

Concentrated Loads (lb)

Vert: 3=-68(F) 6=-148(F) 10=-25(F) 11=-206(F) 9=-206(F) 16=-68(F) 17=-68(F) 18=-68(F) 19=-68(F) 20=-68(F) 21=-25(F) 22=-25(F) 23=-25(F) 24=-25(F)

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835555
495288	T02	Hip Truss	1	1	Job Reference (optional)

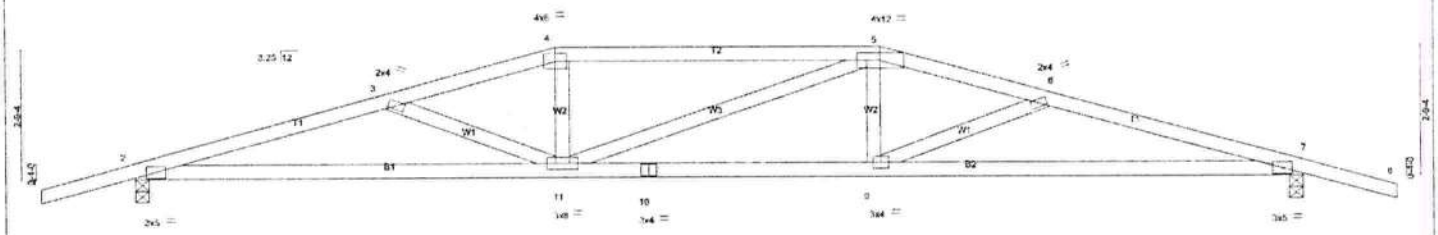
Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:55:07 2013 Page 1

ID:WJWCl27GPedpZVXfOiCvSzzoqnf-FUOerL39lvSkzmnY8qJTJJMjzzf0cJ9QGqNUNpz8eNY

-2-0-0	5-7-2	9-0-0	16-0-0	19-4-14	25-0-0	27-0-0
2-0-0	5-7-2	3-4-14	7-0-0	3-4-14	5-7-2	2-0-0

Scale 1/4"=1'



9-0-0	16-0-0	25-0-0
9-0-0	7-0-0	9-0-0

Plate Offsets (X,Y): [2:0-2-12,0-0-2], [5:0-6-0,0-1-14], [7:0-2-12,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.84	Vert(LL)	0.52	9-17	>575	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	0.42	9-17	>711	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(TL)	-0.11	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 110 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-11-10 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=763/0-3-8 (min. 0-1-8), 7=763/0-3-8 (min. 0-1-8)
Max Horz 2=-41(LC 9)
Max Uplift 2=-601(LC 8), 7=-601(LC 9)
Max Grav 2=908(LC 2), 7=908(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2104/2839, 3-4=-1838/2634, 4-5=-1771/2595, 5-6=-1838/2634, 6-7=-2104/2839
BOT CHORD 2-11=-2646/1992, 10-11=-2439/1771, 9-10=-2439/1771, 7-9=-2661/1992
WEBS 3-11=-284/267, 4-11=-444/248, 5-9=-446/248, 6-9=-284/267

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 601 lb uplift at joint 2 and 601 lb uplift at joint 7.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835556
495288	T03	Hip Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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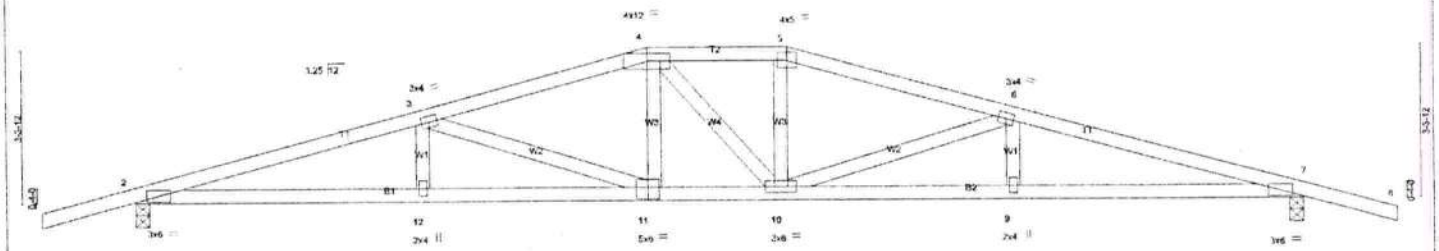
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-jgx13h4nVDabavMliXqisXvxsN0DLkiZVU71wFz8eNX

-2-0-0	6-1-14	11-0-0	14-0-0	18-10-2	25-0-0	27-0-0
2-0-0	6-1-14	4-10-2	3-0-0	4-10-2	6-1-14	2-0-0



6-1-14	11-0-0	14-0-0	18-10-2	25-0-0
6-1-14	4-10-2	3-0-0	4-10-2	6-1-14

Plate Offsets (X,Y): [4:0-6-0,0-1-14], [11:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	0.48	9-10	>627	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	0.38	9-10	>785	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	-0.12	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 114 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-3-13 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=763/0-3-8 (min. 0-1-8), 7=763/0-3-8 (min. 0-1-8)
Max Horz 2=46(LC 8)
Max Uplift 2=-593(LC 8), 7=-593(LC 9)
Max Grav 2=908(LC 2), 7=908(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2108/3015, 3-4=-1626/2344, 4-5=-1537/2299, 5-6=-1618/2329, 6-7=-2108/3016
BOT CHORD 2-12=-2808/1996, 11-12=-2808/1996, 10-11=-2106/1535, 9-10=-2824/1996, 7-9=-2824/1996
WEBS 3-11=-513/761, 4-11=-438/227, 5-10=-439/229, 6-10=-521/774

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 593 lb uplift at joint 2 and 593 lb uplift at joint 7.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T04	Common Truss	5	1	I6835557
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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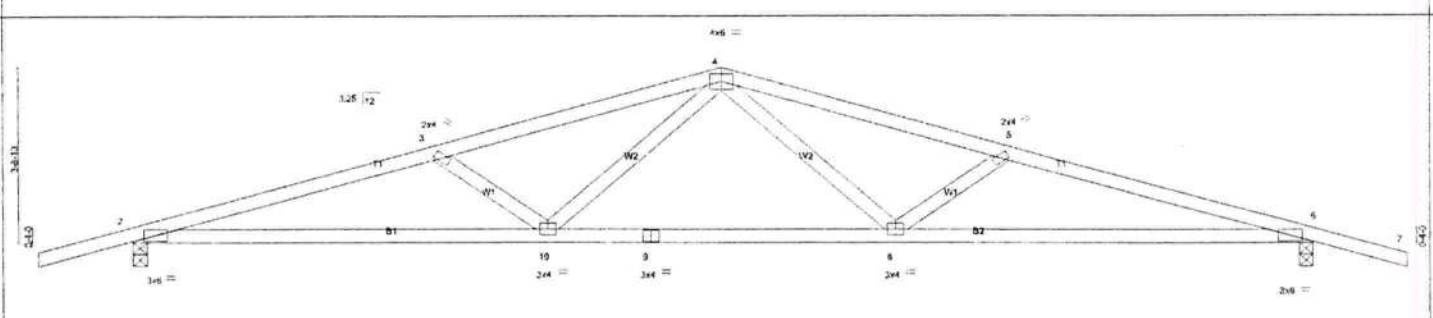
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-CsVPG15PGXiSC3xxFFLxOkS6wnM649cjj8sbShz8eNW

-2-0-0	6-6-13	12-6-0	18-5-3	25-0-0	27-0-0
2-0-0	6-6-13	5-11-3	5-11-3	6-6-13	2-0-0

Scale: 1/4"=1'



8-9-12	16-2-4	25-0-0
8-9-12	7-4-9	8-9-12

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.68	Vert(LL)	0.55	8-10	>546	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	0.44	8-10	>682	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(TL)	-0.11	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 105 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-1-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=763/0-3-8 (min. 0-1-8), 6=763/0-3-8 (min. 0-1-8)
Max Horz 2=-50(LC 9)
Max Uplift 2=-586(LC 8), 6=-586(LC 9)
Max Grav 2=908(LC 2), 6=908(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2126/2924, 3-4=-1809/2713, 4-5=-1809/2713, 5-6=-2126/2924
BOT CHORD 2-10=-2729/2015, 9-10=-1829/1378, 8-9=-1829/1378, 6-8=-2739/2015
WEBS 4-8=-845/467, 5-8=-426/361, 4-10=-845/467, 3-10=-426/361

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 586 lb uplift at joint 2 and 586 lb uplift at joint 6.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835558
495288	T05	Common Truss	2	1	Job Reference (optional)

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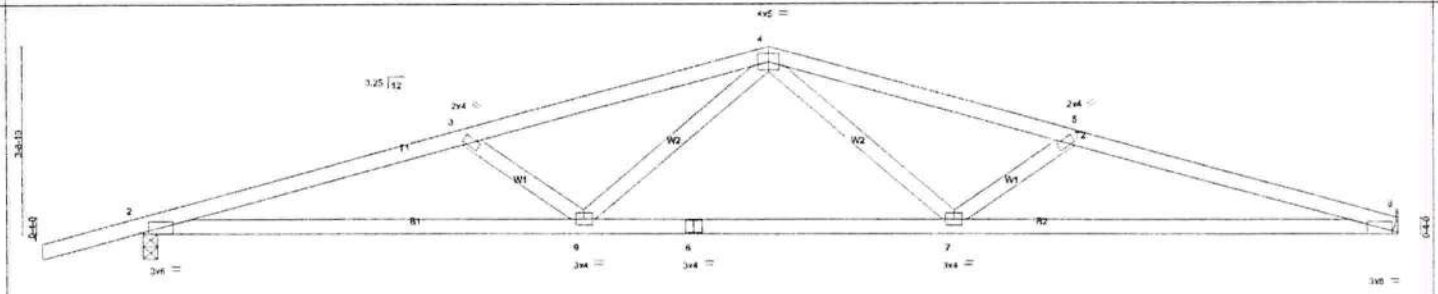
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-g33nTM611qqJqDW7pysAxy_KMBiHpqjsyoc8_8z8eNV

-2-0-0	6-6-13	12-6-0	18-5-3	25-0-0
2-0-0	6-6-13	5-11-3	5-11-3	6-6-13



8-9-12	16-2-4	25-0-0
8-9-12	7-4-9	8-9-12

Plate Offsets (X,Y): [2:0-1-4,Edge], [6:0-1-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.25	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.37	7-9	>804	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.08	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 102 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=673/Mechanical, 2=765/0-3-8 (min. 0-1-8)
Max Horz 2=59(LC 8)
Max Uplift 6=-212(LC 9), 2=-297(LC 8)
Max Grav 6=798(LC 2), 2=910(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2270/1349, 3-4=-1942/1141, 4-5=-1950/1149, 5-6=-2282/1360
BOT CHORD 2-9=-1242/2147, 8-9=-781/1453, 7-8=-781/1453, 6-7=-1254/2159
WEBS 4-7=-249/489, 5-7=-433/362, 4-9=-238/478, 3-9=-427/357

NOTES (8-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 6 and 297 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
11) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T06	Special Truss	1	1	I6835559

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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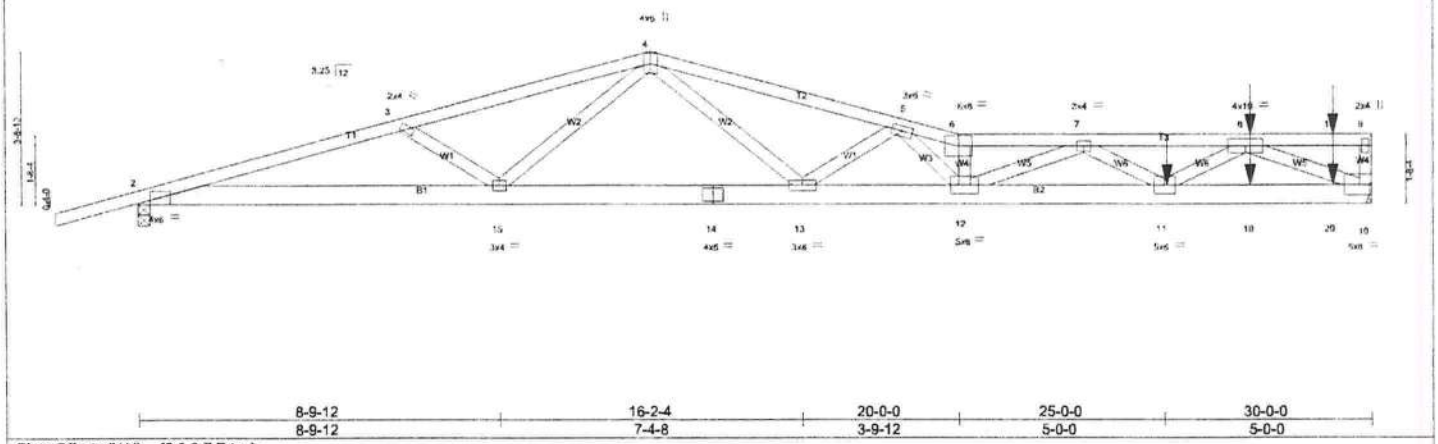
ID:WJWCI27GPedpZVXfOiCvSzzoqnf-cRBXu27IZS413XgWxNue0N4YP_KDHOw9Q65F30z8eNT

-2-0-0	6-6-13	12-6-0	18-5-3	20-0-0	23-0-10	26-11-6	30-0-0
2-0-0	6-6-13	5-11-3	5-11-3	1-6-13	3-0-10	3-10-12	3-0-10



8-9-12	16-2-4	20-0-0	25-0-0	30-0-0
8-9-12	7-4-8	3-9-12	5-0-0	5-0-0

Plate Offsets (X,Y): [2:0-3-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.92	Vert(LL)	-0.51	12-13	>693	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.97	12-13	>366	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.12	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 162 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
B2: 2x6 SP SS
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-2-2 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 10=1442/Mechanical, 2=1013/0-3-8 (min. 0-1-8)
Max Horz 2=93(LC 4)
Max Uplift10=-570(LC 5), 2=-378(LC 4)
Max Grav 10=1711(LC 2), 2=1206(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3379/857, 3-4=-3052/774, 4-5=-4032/1143, 5-6=-6799/2009, 6-7=-6415/1898, 7-8=-5237/1633
BOT CHORD 2-15=-853/3234, 14-15=-665/2541, 13-14=-665/2541, 12-13=-1578/5337, 11-12=-1834/5923, 11-19=-1118/3360, 19-20=-1118/3360, 10-20=-1118/3360
WEBS 3-15=-422/213, 4-15=-115/505, 4-13=-526/1763, 5-13=-1815/637, 5-12=-555/1873, 6-12=-1684/489, 7-12=-71/647, 7-11=-828/243, 8-11=-621/2264, 8-10=-3565/1186

NOTES (11-14)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 570 lb uplift at joint 10 and 378 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 81 lb up at 27-0-12, and 81 lb down and 81 lb up at 29-0-12 on top chord, and 782 lb down and 277 lb up at 25-0-12, and 26 lb down at 27-0-12, and 26 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
14) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835559
495288	T06	Special Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-44, 4-6=-44, 6-9=-44, 2-10=-10
   Concentrated Loads (lb)
   Vert: 11=-657(F) 8=-34(F) 18=-34(F) 19=-16(F) 20=-16(F)

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T07	Special Truss	1	1	I6835560
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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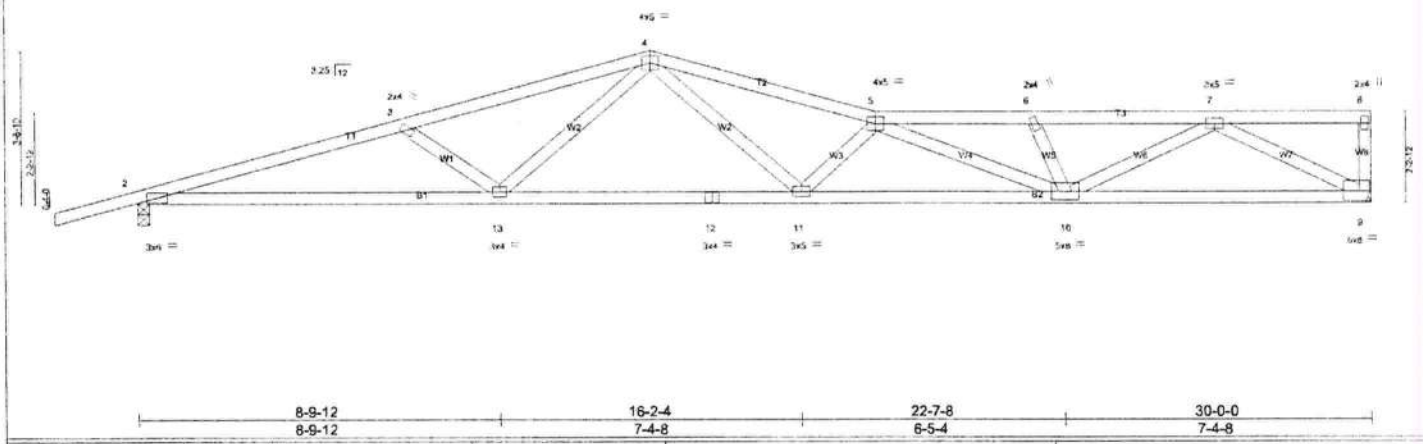
ID:WJWCI27GPedpZVXfOiCvSzzoqnf-4dlw6O8wKlCuhhFiU4PtZacnROfH0wjlemrobSz8eNS

-2-0-0	6-6-13	12-6-0	18-0-0	21-10-13	26-3-0	30-0-0
2-0-0	6-6-13	5-11-3	5-6-0	3-10-13	4-4-2	3-9-0



8-9-12	16-2-4	22-7-8	30-0-0
8-9-12	7-4-8	6-5-4	7-4-8

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	0.45	11-13	>800	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.80	Vert(TL)	-0.67	11-13	>539	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.14	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 139 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-1-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=794/Mechanical, 2=906/0-3-8 (min. 0-1-8)
Max Horz 2=106(LC 8)
Max Uplift9=-263(LC 9), 2=-319(LC 8)
Max Grav 9=942(LC 2), 2=1077(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2854/1653, 3-4=-2539/1452, 4-5=-3078/1750, 5-6=-2838/1592, 6-7=-2737/1517
BOT CHORD 2-13=-1636/2734, 12-13=-1198/2077, 11-12=-1198/2077, 10-11=-2069/3611, 9-10=-931/1607
WEBS 3-13=-406/345, 4-13=-218/454, 4-11=-611/1169, 5-11=-991/619, 5-10=-837/516, 6-10=-251/187, 7-10=-668/1286, 7-9=-1788/1048

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 9 and 319 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835561
495288	T08	Special Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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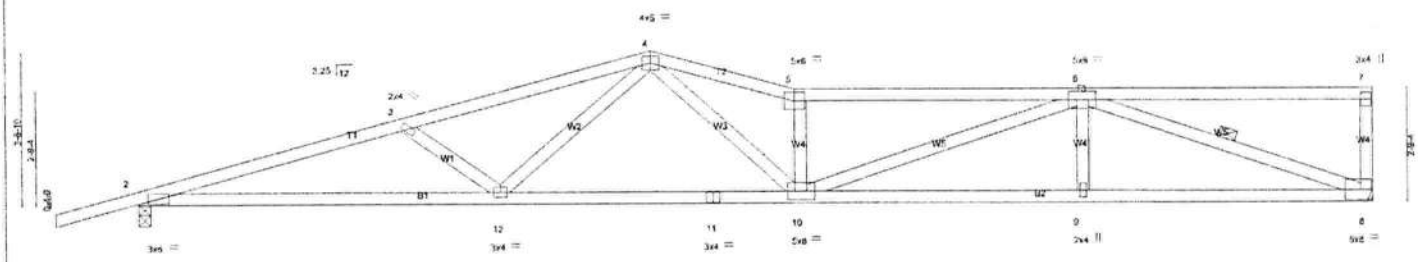
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-YqJIJk9Y53Klqqu2ox65o9vBo12lM0StQaL7vz8eNR

-2-0-0	6-6-14	12-6-0	16-0-0	23-0-0	30-0-0
2-0-0	6-6-14	5-11-2	3-6-0	7-0-0	7-0-0

Scale = 1:54.4



8-9-12	16-0-0	23-0-0	30-0-0
8-9-12	7-2-4	7-0-0	7-0-0

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.84	Vert(LL) 0.41 10-12 >869 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.70	Vert(TL) -0.61 10-12 >584 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(TL) 0.13 8 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 142 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-13 oc bracing.
WEBS 1 Row at midpt 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=795/Mechanical, 2=905/0-3-8 (min. 0-1-8)
Max Horz 2=119(LC 8)
Max Uplift 8=-265(LC 9), 2=-316(LC 8)
Max Grav 8=942(LC 2), 2=1077(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2851/1639, 3-4=-2530/1433, 4-5=-3127/1791, 5-6=-2933/1662
BOT CHORD 2-12=-1652/2739, 11-12=-1202/2069, 10-11=-1202/2069, 9-10=-1232/2185, 8-9=-1232/2185
WEBS 3-12=-416/353, 4-12=-227/459, 4-10=-685/1271, 5-10=-1068/662, 6-10=-458/796, 6-8=-2268/1280

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 8 and 316 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T09	Hip Truss	1	1	I6835562
					Job Reference (optional)

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ID:WJWCI27GPedpZVXfOiCvSzzoqnf-UCQ2kQAodgaSY8zHADzaADELCciqDNIlKk3SCnz8eNP

-2-0-0	6-1-14	11-0-0	19-0-0	23-10-2	30-0-0
2-0-0	6-1-14	4-10-2	8-0-0	4-10-2	6-1-14

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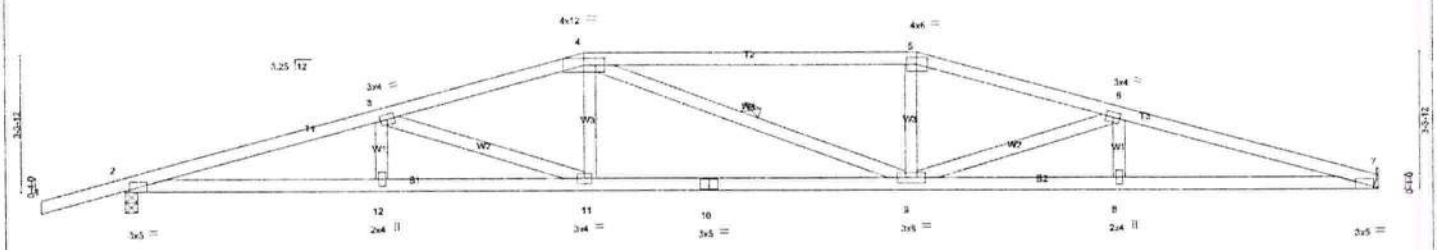

6-1-14	11-0-0	19-0-0	23-10-2	30-0-0
6-1-14	4-10-2	8-0-0	4-10-2	6-1-14

Plate Offsets (X,Y): [2:0-1-4,Edge], [4:0-6-0,0-1-14], [7:0-1-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	0.33	11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.53	9-11	>684	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.13	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 132 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-3 oc bracing.
WEBS 1 Row at midpt 4-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 7=808/Mechanical, 2=900/0-3-8 (min. 0-1-8)
Max Horz 2=56(LC 8)
Max Uplift7=-272(LC 9), 2=-357(LC 8)
Max Grav 7=958(LC 2), 2=1070(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2766/1562, 3-4=-2340/1339, 4-5=-2261/1331, 5-6=-2345/1343, 6-7=-2788/1582
BOT CHORD 2-12=-1446/2621, 11-12=-1446/2621, 10-11=-1168/2214, 9-10=-1168/2214, 8-9=-1467/2643, 7-8=-1467/2643
WEBS 3-11=-442/298, 4-11=-64/300, 5-9=-67/302, 6-9=-460/316

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 7 and 357 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835563
495288	T10	Hip Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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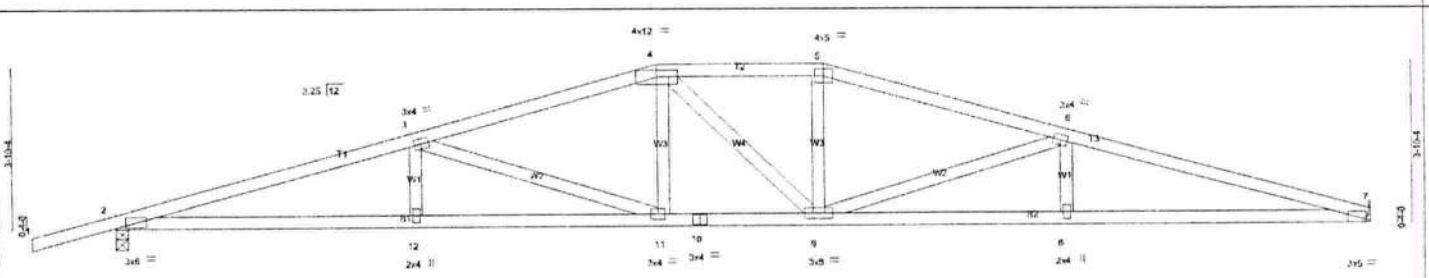
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-zP_QxmBQO_iJAIYTjwUpjQnVV?3Myk6uZOp0kEz8eNO

-2-0-0	7-2-6	13-0-0	17-0-0	22-9-10	30-0-0
2-0-0	7-2-6	5-9-10	4-0-0	5-9-10	7-2-6

Scale = 1:51.0



7-2-6	13-0-0	17-0-0	22-9-10	30-0-0
7-2-6	5-9-10	4-0-0	5-9-10	7-2-6

Plate Offsets (X,Y): [4:0-6-0,0-1-14], [7:0-1-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.34	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.51	11-12	>712	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.13	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 133 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-4 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 7=809/Mechanical, 2=899/0-3-8 (min. 0-1-8)
Max Horz 2=61(LC 8)
Max Uplift7=-264(LC 9), 2=-349(LC 8)
Max Grav 7=958(LC 2), 2=1070(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2767/1574, 3-4=-2109/1232, 4-5=-2023/1227, 5-6=-2110/1233, 6-7=-2783/1588
BOT CHORD 2-12=-1452/2619, 11-12=-1452/2619, 10-11=-1037/1972, 9-10=-1037/1972, 8-9=-1467/2634, 7-8=-1467/2634
WEBS 3-11=-693/442, 4-11=-120/283, 5-9=-122/285, 6-9=-709/458

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 7 and 349 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member and fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T11	Special Truss	4	1	I6835564

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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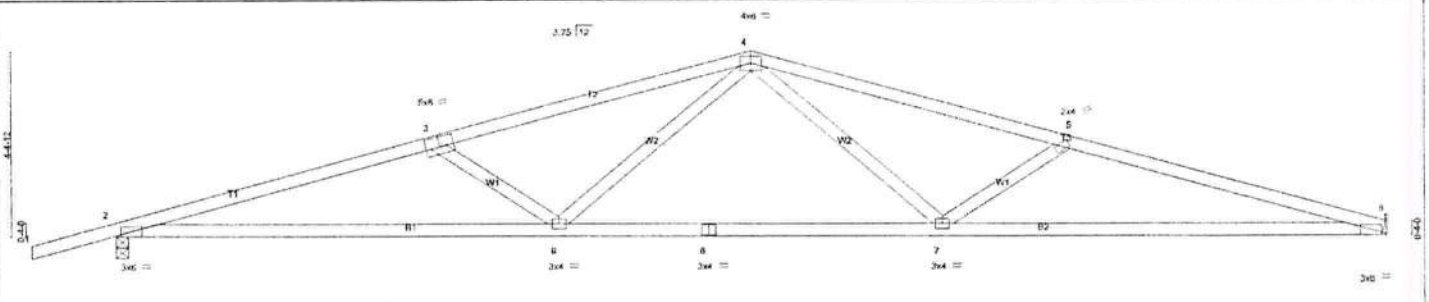
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-RbYp95C39lqAnS7gHe?2GeJaKPNlhG01o2YZGgz8eNN

-2-0-0	7-7-8	15-0-0	22-4-8	30-0-0
2-0-0	7-7-8	7-4-8	7-4-8	7-7-8



10-5-9	19-6-7	30-0-0
10-5-9	9-0-14	10-5-9

Plate Offsets (X,Y): [2:0-1-4,Edge], [3:0-4-0,0-3-0], [6:0-1-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.95	Vert(LL)	0.38	7-9	>943	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.58	7-9	>624	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.12	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 122 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-8-6 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=808/Mechanical, 2=900/0-3-8 (min. 0-1-8)
Max Horz 2=66(LC 8)
Max Uplift6=-254(LC 9), 2=-339(LC 8)
Max Grav 6=958(LC 2), 2=1070(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2786/1659, 3-4=-2380/1400, 4-5=-2381/1400, 5-6=-2816/1684
BOT CHORD 2-9=-1533/2638, 8-9=-952/1763, 7-8=-952/1763, 6-7=-1559/2669
WEBS 4-7=-305/604, 5-7=-554/463, 4-9=-303/603, 3-9=-530/442

NOTES (8-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 6 and 339 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
11) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T12	Special Truss	4	1	I6835565
					Job Reference (optional)

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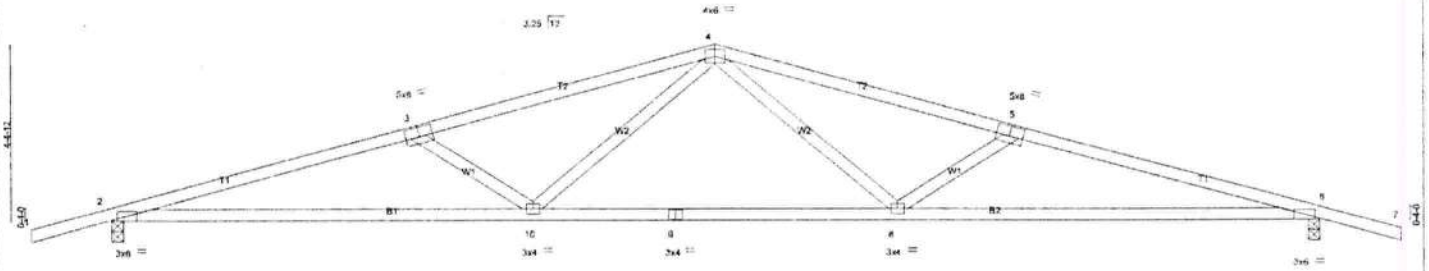
ID:WJWCl27GPedpZVXfOiCvSzzoqnf-N_gZanDJhv4u1IH2P21WL3PxyD2L9AWKFM1gLYz8eNL

-2-0-0	7-7-8	15-0-0	22-4-8	30-0-0	32-0-0
2-0-0	7-7-8	7-4-8	7-4-8	7-7-8	2-0-0

Scale = 1:55.0



10-5-9	19-6-7	30-0-0
10-5-9	9-0-14	10-5-9

Plate Offsets (X,Y): [2:0-1-8,Edge], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.88	Vert(LL)	0.38	8-10	>947	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.58	8-10	>623	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.12	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 125 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-9-8 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=898/0-3-8 (min. 0-1-8), 6=898/0-3-8 (min. 0-1-8)
Max Horz 2=-57(LC 13)
Max Uplift2=-339(LC 8), 6=-339(LC 9)
Max Grav 2=1068(LC 2), 6=1068(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2781/1652, 3-4=-2373/1393, 4-5=-2373/1393, 5-6=-2780/1652
BOT CHORD 2-10=-1493/2633, 9-10=-917/1760, 8-9=-917/1760, 6-8=-1501/2637
WEBS 4-8=-306/605, 5-8=-532/443, 4-10=-306/605, 3-10=-532/443

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint 2 and 339 lb uplift at joint 6.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	I6835566
495288	T13	Special Truss	1	3	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-44, 4-7=-44, 1-7=-77(F=-68)

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T14	Special Truss	2	1	I6835567

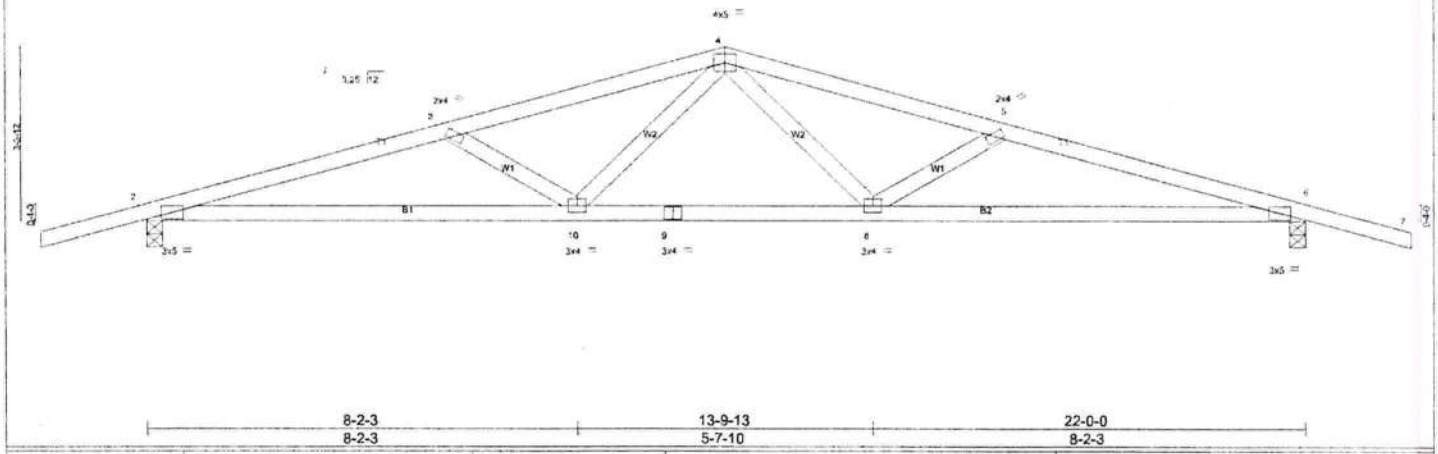
Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:55:22 2013 Page 1

ID:WJWCI27GPedpZVXfOiCvSzzoqnf-JMoJ?TFZCWLcG3RRWT4_QUUPX0pHd5QdjgWnPRz8eNJ

-2-0-0	5-10-2	11-0-0	16-1-14	22-0-0	24-0-0
2-0-0	5-10-2	5-1-14	5-1-14	5-10-2	2-0-0



8-2-3	13-9-13	22-0-0
8-2-3	5-7-10	8-2-3

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.19	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.26	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 93 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-12 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=682/0-3-8 (min. 0-1-8), 6=682/0-3-8 (min. 0-1-8)
Max Horz 2=-74(LC 13)
Max Uplift2=-443(LC 8), 6=-443(LC 9)
Max Grav 2=812(LC 2), 6=812(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1948/1161, 3-4=-1628/952, 4-5=-1628/951, 5-6=-1948/1160
BOT CHORD 2-10=-1028/1840, 9-10=-643/1266, 8-9=-643/1266, 6-8=-1040/1845
WEBS 4-8=-180/364, 5-8=-390/324, 4-10=-180/364, 3-10=-390/324

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 443 lb uplift at joint 2 and 443 lb uplift at joint 6.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T14G	Special Truss	1	1	I6835568

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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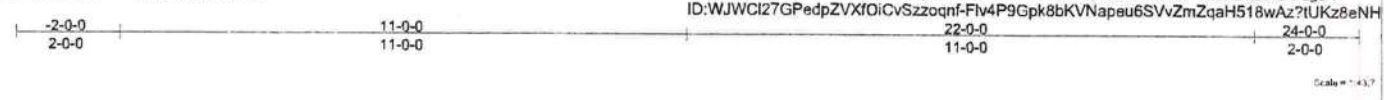

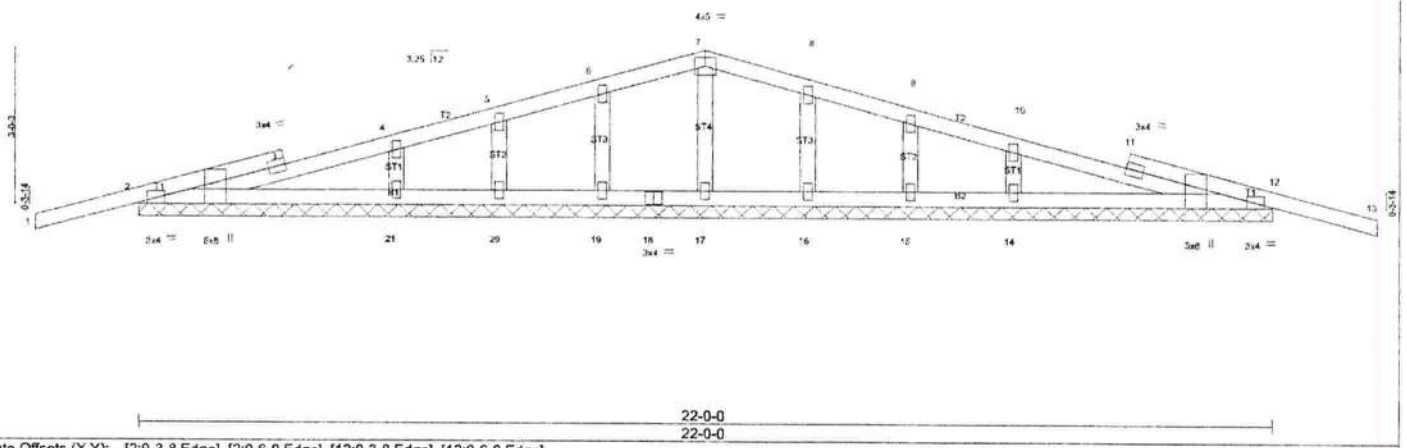

22-0-0

22-0-0

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-6-0,Edge], [12:0-3-8,Edge], [12:0-6-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 94 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 22-0-0.
(lb) - Max Horz 2=-68(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 17, 19, 20, 16, 15 except 2=-204(LC 8), 12=-211(LC 9), 21=-143(LC 12), 14=-146(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 17, 19, 20, 16, 15 except 2=264(LC 27), 12=264(LC 28), 21=268(LC 27), 14=268(LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES (12-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 19, 20, 16, 15 except (jt=lb) 2=204, 12=211, 21=143, 14=146.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
13) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach.FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T15	Special Truss	1	2	I6835569

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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ID:WJWCl27GPedpZVXfOiCvSzzoqnf-C81qqrl4Glr2lgkClJ8waKfxze5qZn4DeHU_YCz8eNF

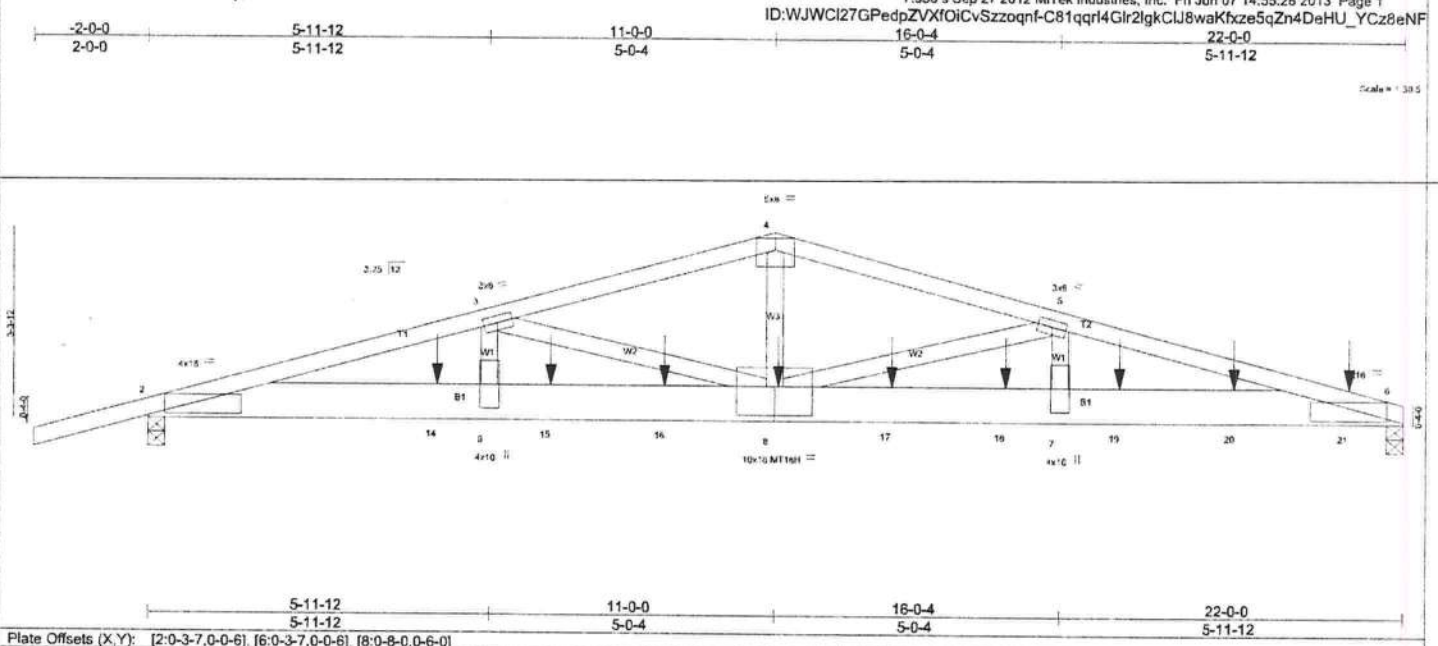

Plate Offsets (X,Y): [2:0-3-7,0-0-6], [6:0-3-7,0-0-6], [8:0-8-0,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.98	Vert(LL)	-0.40	8-9	>652	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.83	Vert(TL)	-0.75	8-9	>347	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(TL)	0.14	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 252 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except*
T2: 2x4 SP M 31
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-10-6 oc bracing.

REACTIONS (lb/size) 6=4988/0-3-8 (min. 0-3-8), 2=4070/0-3-8 (min. 0-2-14)
Max Horz 2=57(LC 6)
Max Uplift6=-1669(LC 5), 2=-1497(LC 4)
Max Grav 6=5922(LC 2), 2=4836(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-16265/4774, 3-4=-12050/3462, 4-5=-12051/3458, 5-6=-16636/4721
BOT CHORD 2-14=-4604/15663, 9-14=-4604/15663, 9-15=-4604/15663, 15-16=-4604/15663, 8-16=-4604/15663, 8-17=-4521/16042, 17-18=-4521/16042, 7-18=-4521/16042, 7-19=-4521/16042, 19-20=-4521/16042, 6-20=-4521/16042, 6-21=-3471/12341
WEBS 4-8=-1680/5929, 5-8=-4660/1322, 5-7=-593/2312, 3-8=-4264/1404, 3-9=-659/2168

NOTES (12-14)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1669, 2=1497.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1701 lb down and 580 lb up at 5-0-12, 932 lb down and 273 lb up at 7-0-12, 932 lb down and 275 lb up at 9-0-12, 948 lb down and 282 lb up at 11-0-12, 948 lb down and 274 lb up at 13-0-12, 948 lb down and 264 lb up at 15-0-12, 948 lb down and 264 lb up at 17-0-12, and 948 lb down and 264 lb up at 19-0-12, and 948 lb down and 264 lb up at 21-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
13) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
495288	T15	Special Truss	1	2	I6835569

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jun 07 14:55:26 2013 Page 2

ID:WJWCl27GPedpZVXfOiCvSzzoqnf-C81qqrl4Glr2lgkClJ8waKfxze5qZn4DeHU_YCz8eNF

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-44, 4-6=-44, 2-6=-10

Concentrated Loads (lb)

Vert: 8=-798(B) 14=-1432(B) 15=-784(B) 16=-785(B) 17=-799(B) 18=-798(B) 19=-798(B) 20=-798(B) 21=-798(B)

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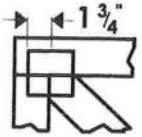
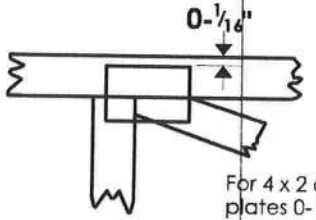
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

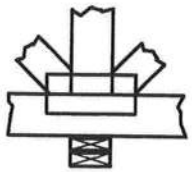
4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

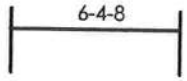


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

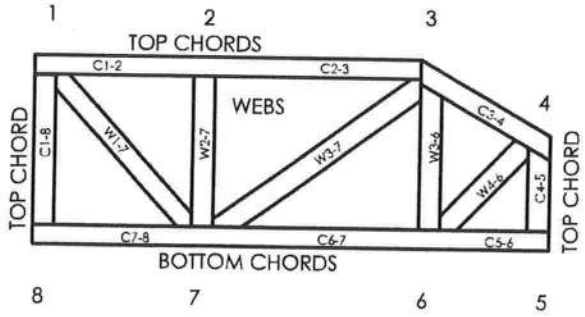
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B,
9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.