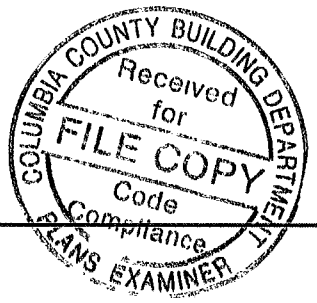
JULIUS LEE PE.



RE: 543737 - Jennings Additions

1109 COASTAL BAY BLVD,
BOYNTON BEACH, FL 33435

Site Information:
Project Customer. JENNINGS - O/B Project Name. 543737 Model. ADDITIONS
Lot/Block: Subdivision:
Address: 203 NW SPRINGHILL
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):
Design Code: FBC2010/TPI2007 Design Program: MiTek 20/20 7.3
Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 53 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.

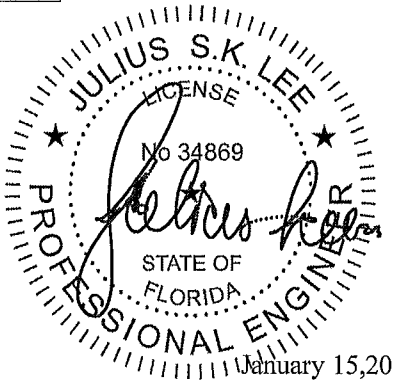
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I7716413	CJ01	1/15/014	18	I7716430	PB02	1/15/014
2	I7716414	CJ02	1/15/014	19	I7716431	PB03	1/15/014
3	I7716415	CJ05	1/15/014	20	I7716432	PB04	1/15/014
4	I7716416	CJ06	1/15/014	21	I7716433	PB05	1/15/014
5	I7716417	CJ07	1/15/014	22	I7716434	PB06	1/15/014
6	I7716418	EJ01	1/15/014	23	I7716435	PB07	1/15/014
7	I7716419	EJ02	1/15/014	24	I7716436	PB07G	1/15/014
8	I7716420	EJ03	1/15/014	25	I7716437	T01	1/15/014
9	I7716421	EJ04	1/15/014	26	I7716438	T02	1/15/014
10	I7716422	EJ05	1/15/014	27	I7716439	T03	1/15/014
11	I7716423	EJ06	1/15/014	28	I7716440	T04	1/15/014
12	I7716424	FG1	1/15/014	29	I7716441	T05	1/15/014
13	I7716425	HJ01	1/15/014	30	I7716442	T06	1/15/014
14	I7716426	HJ02	1/15/014	31	I7716443	T07	1/15/014
15	I7716427	HJ03	1/15/014	32	I7716444	T08	1/15/014
16	I7716428	HJ04	1/15/014	33	I7716445	T09	1/15/014
17	I7716429	PB01	1/15/014	34	I7716446	T09G	1/15/014

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.



January 15,2014

Julius Lee

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	CJ01	Jack-Open Truss	2	1	I7716413
					Job Reference (optional)

Builders FirstSource Lake City FL 32055 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:23.56 2014 Page 1

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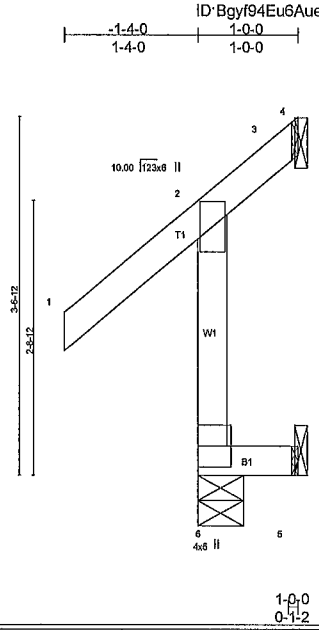

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.59	Vert(LL) 0 00 6 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1 25	BC 0.24	Vert(TL) 0.00 6 >999 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0 00	Horz(TL) -0 06 3 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 10 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 1-0-0 oc purlins except end verticals.
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) 6=148/0-5-8 (min. 0-1 8) 5=-3/Mechanical, 3=-37/Mechanical
Max Horz 6=89(LC 12)
Max Uplift5=-124(LC 12) 3=-98(LC 12)
Max Grav 6=212(LC 23) 5=39(LC 10) 3=22(LC 10)

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=20ft; Cat. II Exp C Encl GCpi=0.18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 124 lb uplift at joint 5 and 98 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

January 15,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716415
543737	CJ05	JACK	8	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:23:57 2014 Page 1

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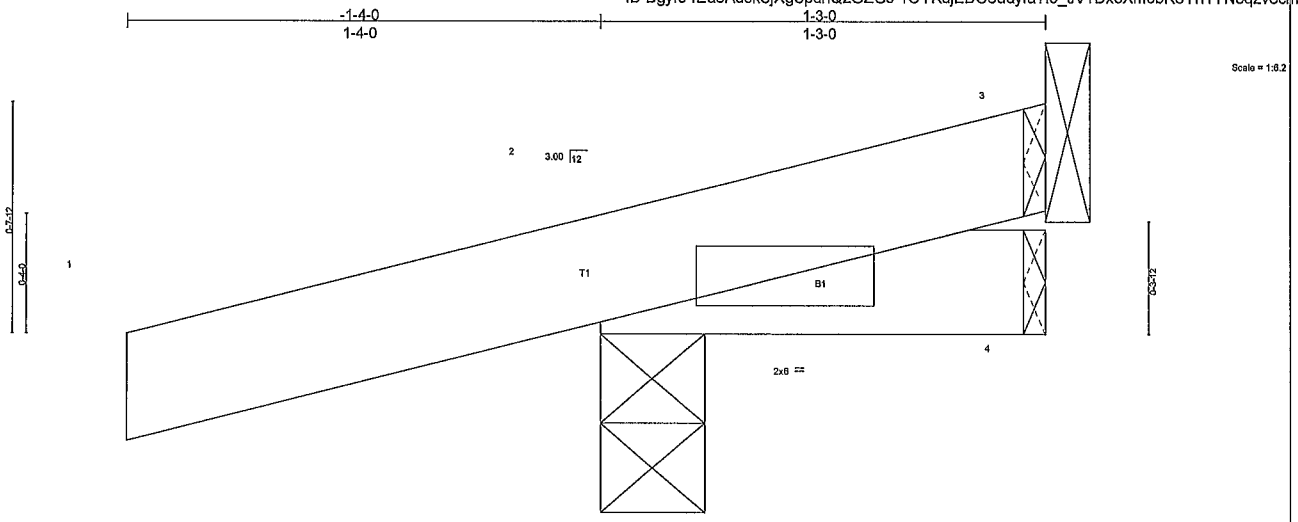

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0 11	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0 00	5	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0 00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 6 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 1-3-0 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=118/0-3-8 (min 0-1-8) 3=7/Mechanical
Max Horz 2=37(LC 8)
Max Uplift2=-130(LC 8) 3=-4(LC 12)
Max Grav 2=144(LC 2) 3=19(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=20ft; 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 130 lb uplift at joint 2 and 4 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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716417
543737	CJ07	Jack-Open Truss	4	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:23:59 2014 Page 1

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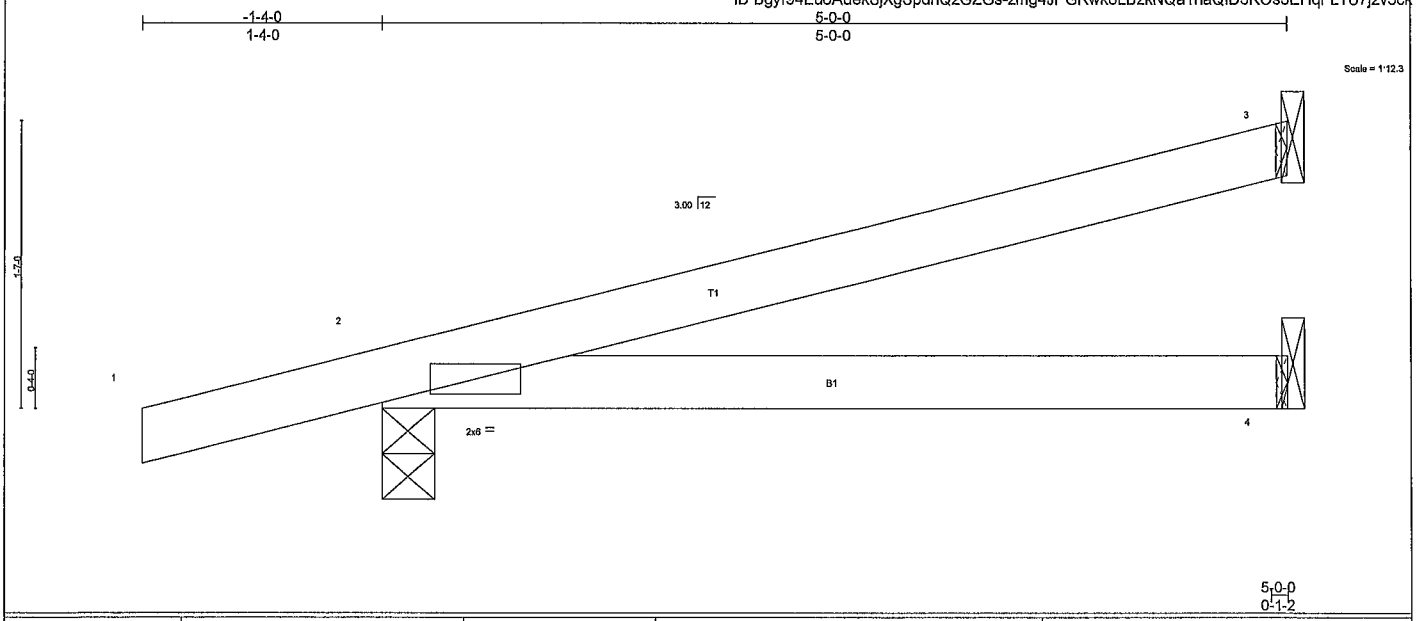

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.08	4-7	>756	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.25	Vert(TL)	0.07	4-7	>880	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 17 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=80/Mechanical, 2=217/0-3-8 (min. 0-1-8) 4=29/Mechanical
Max Horz 2=84(LC 8)
Max Uplift3=-82(LC 8) 2=-243(LC 8) 4=-43(LC 8)
Max Grav 3=97(LC 2) 2=259(LC 2) 4=57(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-394/779
BOT CHORD 2-4=-869/430

NOTES (7-9)
1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 82 lb uplift at joint 3, 243 lb uplift at joint 2 and 43 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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	EJ02	MONO TRUSS	1	1	I7716419
					Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24:01 2014 Page 1

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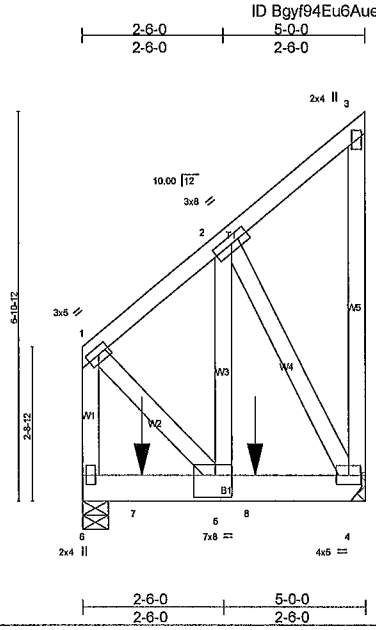


Plate Offsets (X,Y). [5:0-3-8,0-4-12]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20 0	Plates Increase 1.25	TC 0.20	Vert(LL) -0.01 5-6 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0 57	Vert(TL) -0.03 5-6 >999 180	
BCLL 0 0 *	Rep Stress Incr NO	WB 0 51	Horz(TL) 0 00 4 n/a n/a	
BCDL 5 0	Code FBC2010/TPI2007	(Matrix-M)		Weight. 51 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
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 10-0-0 oc bracing

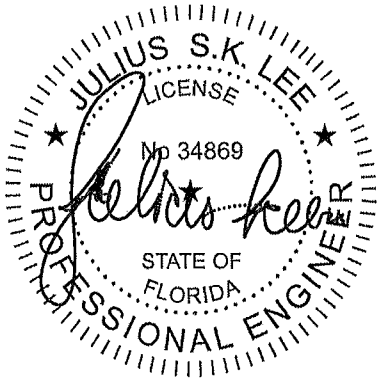
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=1501/0-5-8 (min. 0-1 15) 4=1071/Mechanical
Max Horz 6=148(LC 5)
Max Uplift6=-314(LC 6) 4=-394(LC 8)
Max Grav 6=1622(LC 2) 4=1161(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-680/128, 1-6=-990/187
BOT CHORD 5-8=-170/503, 4-8=-170/503
WEBS 1-5=-194/724, 2-5=-324/1207 2-4=-1066/359

NOTES (9-11)
1) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II Exp C, Encl GCpi=0 18, MWFRS (envelope) end vertical left 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 314 lb uplift at joint 6 and 394 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1241 lb down and 280 lb up at 1-0-12, and 1241 lb down and 280 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: 4-6=-10 1-3=-44
Concentrated Loads (lb)
Vert. 7=-1159(B) 8=-1159(B)



January 15,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	EJ04	Jack-Partial Truss	2	1	I7716421
					Job Reference (optional)

Builders FirstSource Lake City FL 32055 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24:03 2014 Page 1

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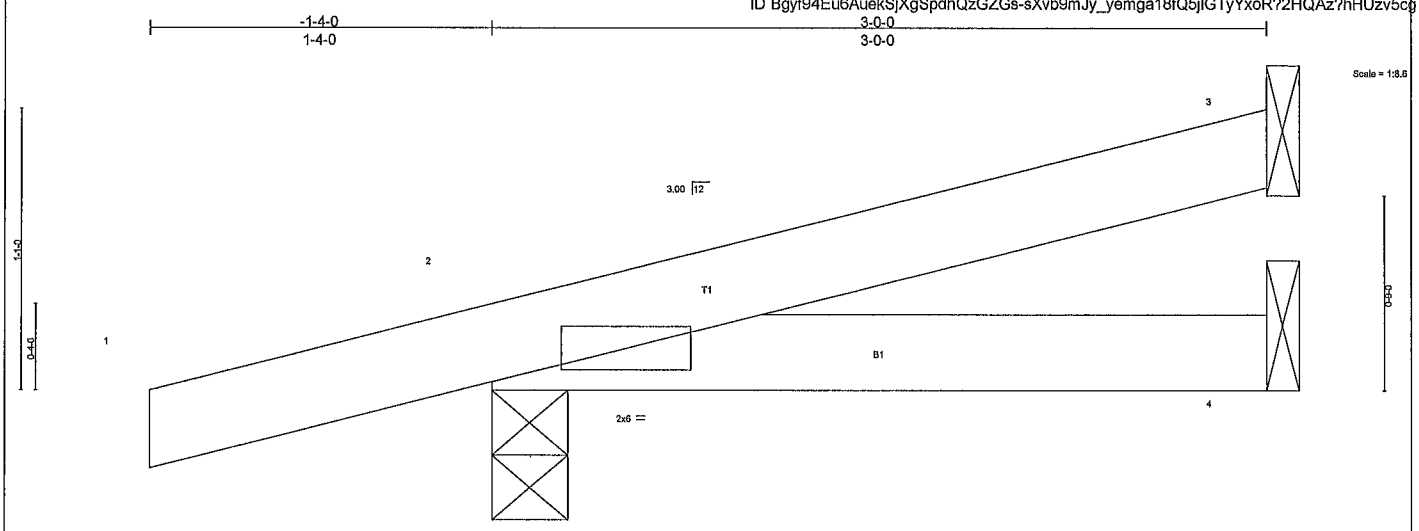

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0 11	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.08	Vert(TL)	0 01	4-7	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 11 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=44/Mechanical 2=154/0-3-8 (min. 0-1-8), 4=19/Mechanical
Max Horz 2=59(LC 8)
Max Uplift3=-46(LC 8), 2=-179(LC 8) 4=-26(LC 8)
Max Grav 3=53(LC 2) 2=186(LC 2) 4=34(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=20ft, 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 46 lb uplift at joint 3 179 lb uplift at joint 2 and 26 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

January 15,2014

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

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	EJ06	Jack-Closed Truss	4	1	I7716423
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24:04 2014 Page 1

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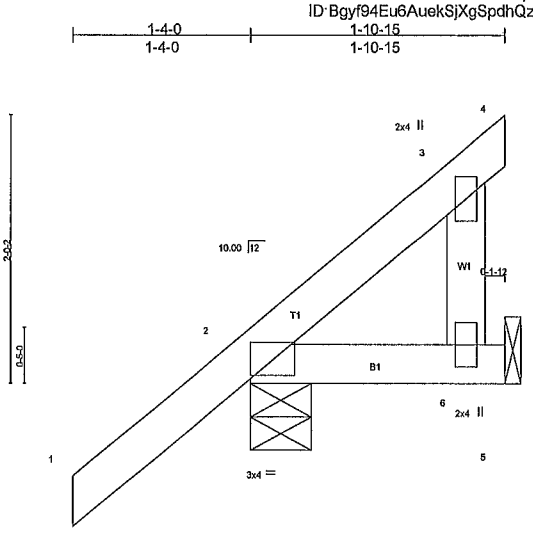

Plate Offsets (X,Y). [2:0-4-0,0-0-4]

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 18	Vert(LL) -0 00 9 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0.04	Vert(TL) -0 00 9 >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: 11 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 1 10-15 oc purlins except end verticals.
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) 6=32/Mechanical, 2=121/0-5-8 (min. 0-1-8)
Max Horz 2=125(LC 12)
Max Uplift6=-54(LC 12) 2=-57(LC 12)
Max Grav 6=50(LC 21) 2=147(LC 2)

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=20ft; 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 54 lb uplift at joint 6 and 57 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

January 15,2014

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

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	HJ01	Diagonal Hip Girder	1	1	I7716425
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24:08 2014 Page 1

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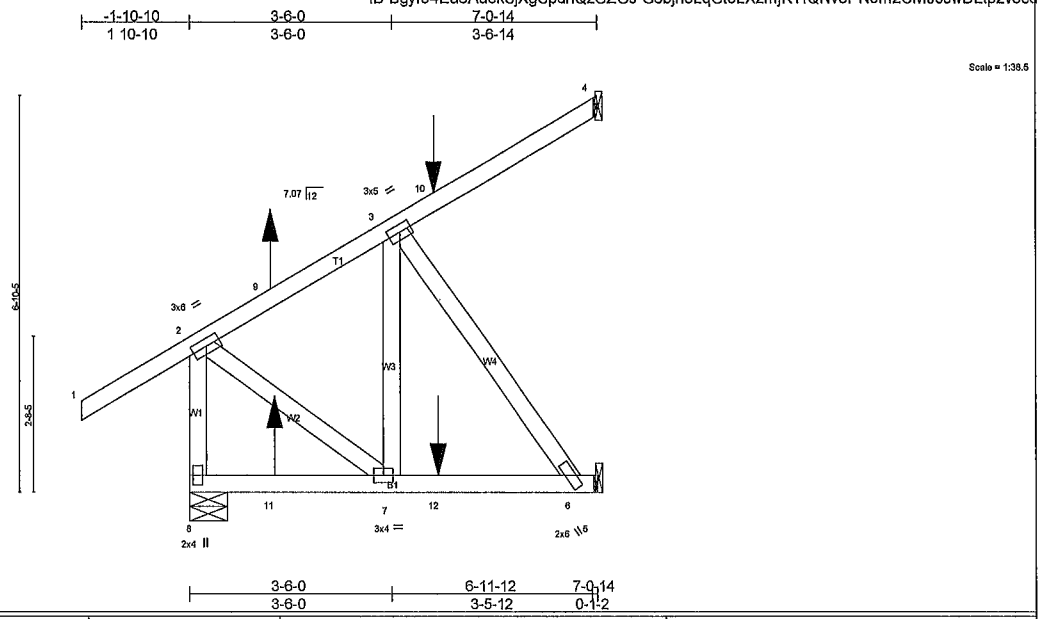

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.33	Vert(LL) 0 03 6-7 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0.28	Vert(TL) -0 02 6-7 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0 17	Horz(TL) -0 01 4 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 49 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 6-0-0 oc purlins, except end verticals
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 (lb/size) 8=239/0-7 12 (min 0-1-8) 4=68/Mechanical 5=97/Mechanical
Max Horz 8=210(LC 8)
Max Uplift 8=-540(LC 6) 4=-108(LC 8) 5=-420(LC 8)
Max Grav 8=297(LC 2) 4=82(LC 2) 5=119(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-296/410, 2-9=-126/344
BOT CHORD 7 12=-342/79, 6-12=-342/79
WEBS 2-7=-310/122, 3-6=-135/584

NOTES (9-11)
1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II Exp C, Encl. GCpi=0.18, MWFRS (envelope) gable end zone; end vertical left 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 540 lb uplift at joint 8, 108 lb uplift at joint 4 and 420 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) 157 lb up at 1 5-12, 157 lb up at 1-5-12, and 2 lb down and 176 lb up at 4-3-11, and 2 lb down and 176 lb up at 4-3-11 on top chord and 134 lb up at 1-5-12, 134 lb up at 1-5-12 and 10 lb down and 71 lb up at 4-3-11 and 10 lb down and 71 lb up at 4-3-11 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: 1-2=-44 2-4=-44 5-8=-10
Concentrated Loads (lb)
Vert: 9=49(F=24, B=24) 10=-3(F=-1 B=-1) 11=16(F=8, B=8) 12=-6(F=-3, B=-3)

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

January 15,2014

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design parameters and proper incorporation of component is responsibility of building designer not truss designer Bracing shown is for lateral support of individual web members only Additional temporary bracing to insure stability during construction is the responsibility of the erector Additional permanent bracing of the overall structure is the responsibility of the building designer For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB 89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	HJ03	Diagonal Hip Girder	2	1	I7716427
					Job Reference (optional)

Builders FirstSource Lake City FL 32055 7.350 s Sep 27 2012 MiTek Industries Inc. Wed Jan 15 13:24:08 2014 Page 1

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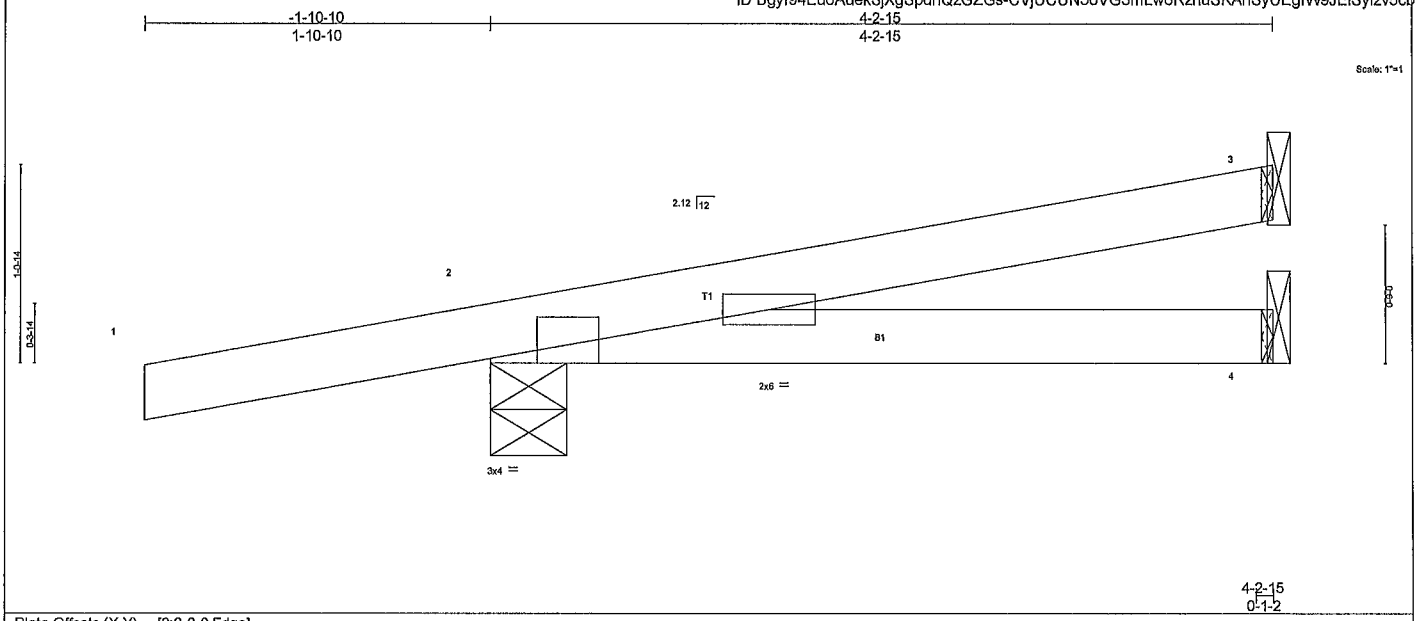

Plate Offsets (X,Y). [2:0-3-0,Edge]

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 23	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 17	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: 16 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 4-2-15 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=62/Mechanical 2=220/0-4-15 (min. 0-1-8), 4=27/Mechanical
Max Horz 2=59(LC 8)
Max Uplift3=-62(LC 8), 2=-258(LC 8) 4=-36(LC 8)
Max Grav 3=75(LC 2) 2=264(LC 2) 4=47(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-195/363
BOT CHORD 2-4=-388/205

NOTES (7-9)
1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 62 lb uplift at joint 3 258 lb uplift at joint 2 and 36 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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716429
543737	PB01	GABLE	12	1	Job Reference (optional)	

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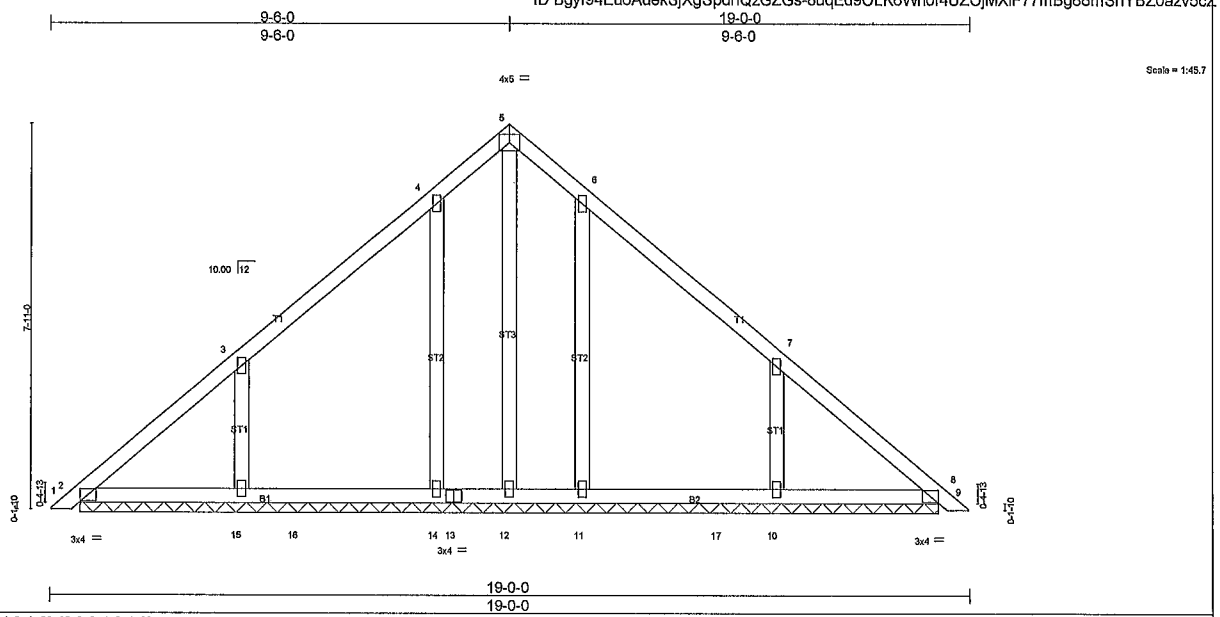

Plate Offsets (X,Y) [2:0-2-1,0-1-8], [8:0-2-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	0.00	9	n/r	120	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 11	Vert(TL)	0 00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(TL)	0 01	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight. 99 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 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 All bearings 17-8-9.
(lb) Max Horz 2=-197(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2 12 8 except 10=-192(LC 13) 11=-134(LC 13) 15=-192(LC 12), 14=-136(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2 12, 8 except 10=343(LC 22), 11=334(LC 22) 15=343(LC 21) 14=336(LC 21)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown
WEBS 5-12=-258/209, 7-10=-386/296, 6-11=-303/223, 3-15=-386/296, 4-14=-303/224

NOTES (13-15)
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=20ft; 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) 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 4-0-0 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 with BCDL = 5.0psf
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) 2, 12, 8 except (jt=lb) 10=192 11=134, 15=192, 14=136.
11) "Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable or consult qualified building designer
13) 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
14) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
15) 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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	PB03	GABLE	1	1	I7716431
					Job Reference (optional)

Builders FirstSource, Lake City FL 32055

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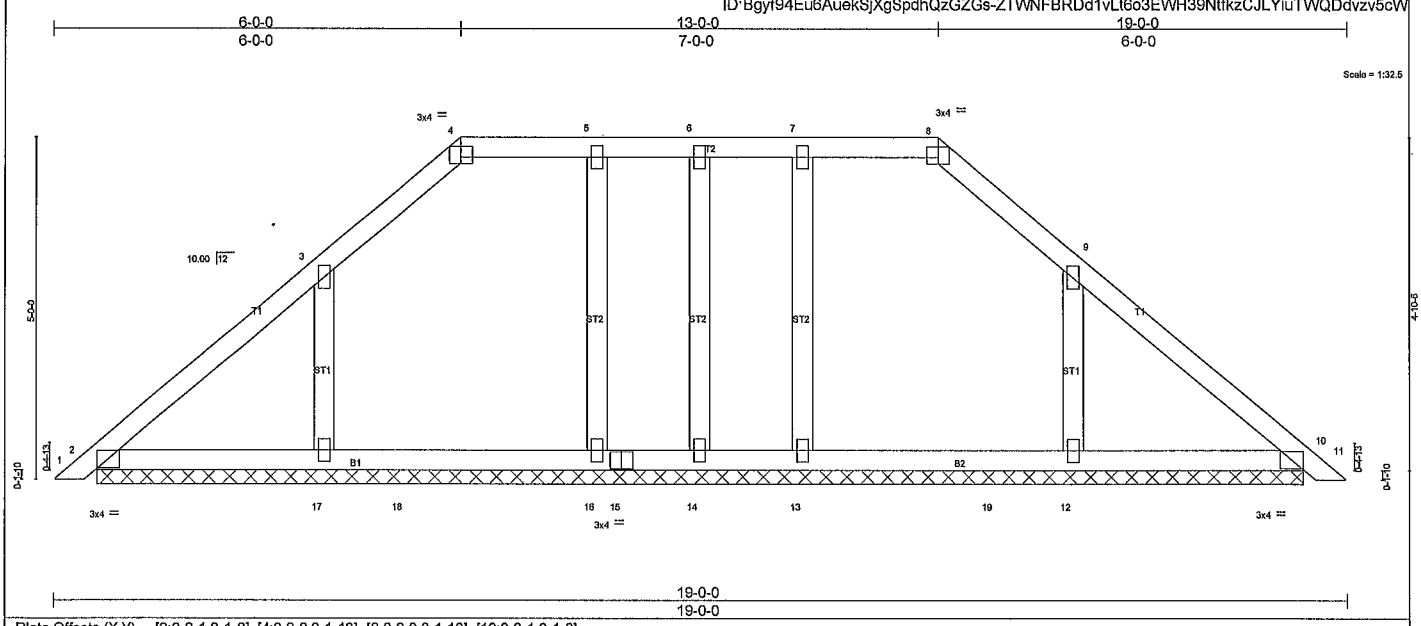


Plate Offsets (X,Y) [2:0-2-1,0-1-8], [4:0-2-0,0-1-13], [8.0-2-0,0-1 13], [10:0-2-1,0-1-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.13	Vert(LL) 0.00 11 n/r 120	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.11	Vert(TL) 0.00 11 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(TL) 0.00 10 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 87 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 6-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

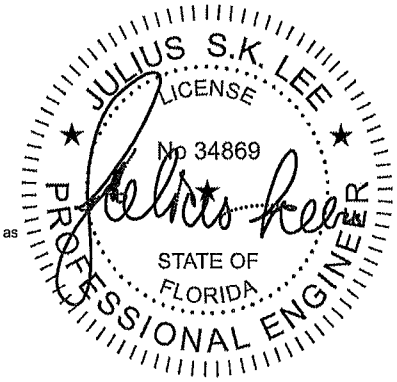
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 17-8-9.
(lb) - Max Horz 2=-123(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2 14 13, 16, 10 except 12=-149(LC 13)
17=-151(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2 14, 13, 16, 10 except 12=298(LC 22)
17=301(LC 21)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 9-12=-307/228, 3-17=-307/228

NOTES (14-16)
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=20ft; 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) 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) Provide adequate drainage to prevent water ponding
5) All plates are 2x4 MT20 unless otherwise indicated
6) Gable requires continuous bottom chord bearing
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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, with BCDL = 5.0psf
10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 14, 13, 16, 10 except (jt=lb) 12=149, 17=151
12) 'Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
14) 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.
15) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
16) 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



January 15,2014

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1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716433
543737	PB05	GABLE	1	1	Job Reference (optional)	

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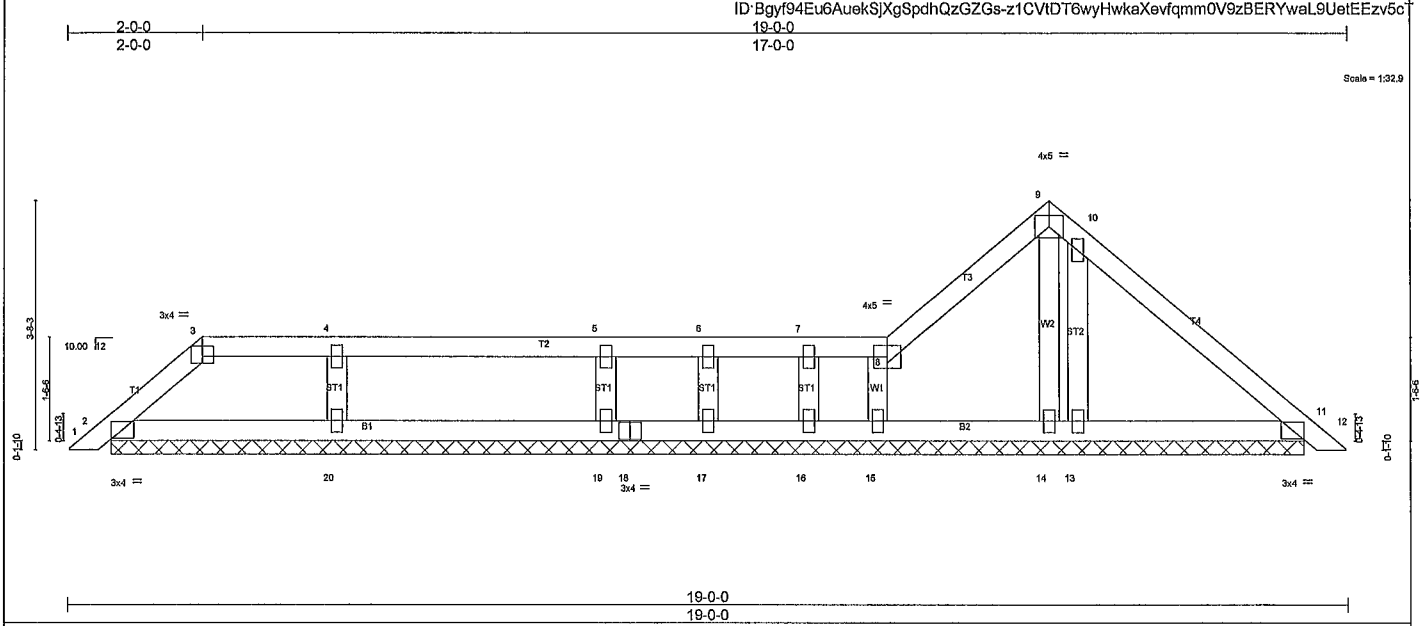

Plate Offsets (X,Y). [2:0-2-1,0-1-8], [3:0-2-0,0-1-13], [11:0-2-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.09	Vert(TL)	0.00	12	n/r	120		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 06	Horz(TL)	0.00	11	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix)							Weight: 74 lb	FT = 20%

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

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 All bearings 17-8-9.
(lb) - Max Horz 2=-89(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 17 16, 20 19 11 15 except 13=-173(LC 13) 14=-118(LC 22)
Max Grav All reactions 250 lb or less at joint(s) 2 17 16, 19 11 15, 14 except 13=303(LC 22), 20=250(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
WEBS 10-13=-286/200

NOTES (14-16)
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=20ft, 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) 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) Provide adequate drainage to prevent water ponding
5) All plates are 2x4 MT20 unless otherwise indicated
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
9) * 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.
10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 17 16 20, 19 11 15 except (jt=lb) 13=173, 14=118.
12) Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
14) 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
15) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
16) 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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716435
543737	PB07	Piggyback Truss	9	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24 19 2014 Page 1

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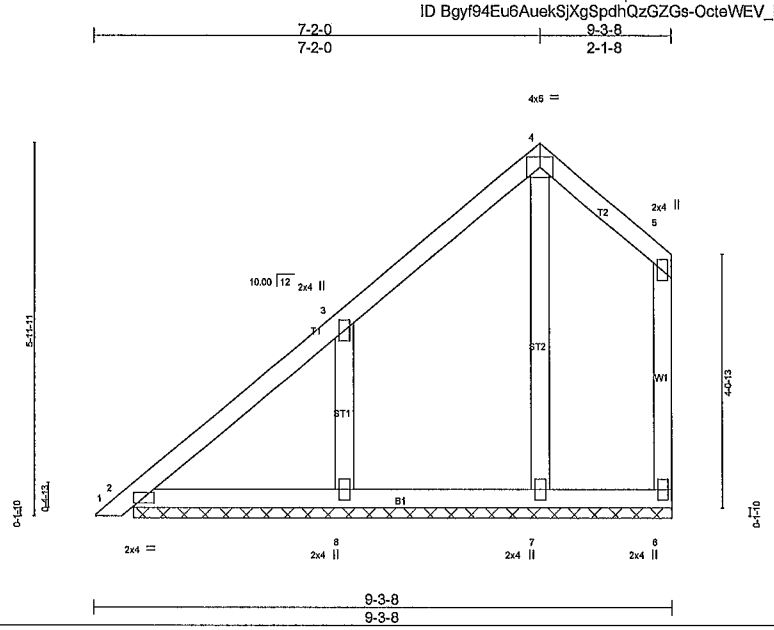


Plate Offsets (X,Y). [2:0-2-1,0-1-0]

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 19	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix)							Weight: 48 lb	FT = 20%

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

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

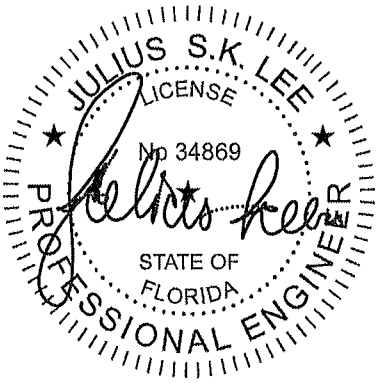
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 8-7-13.
(lb) - Max Horz 2=162(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-178(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 6, 2 7 except 8=291(LC 21)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown
WEBS 3-8=-365/298

NOTES (10-12)
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=20ft; 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) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 6, 2 7 except (jt=lb) 8=178.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
10) 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
11) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
12) 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



January 15,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716437
543737	T01	Piggyback Base Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

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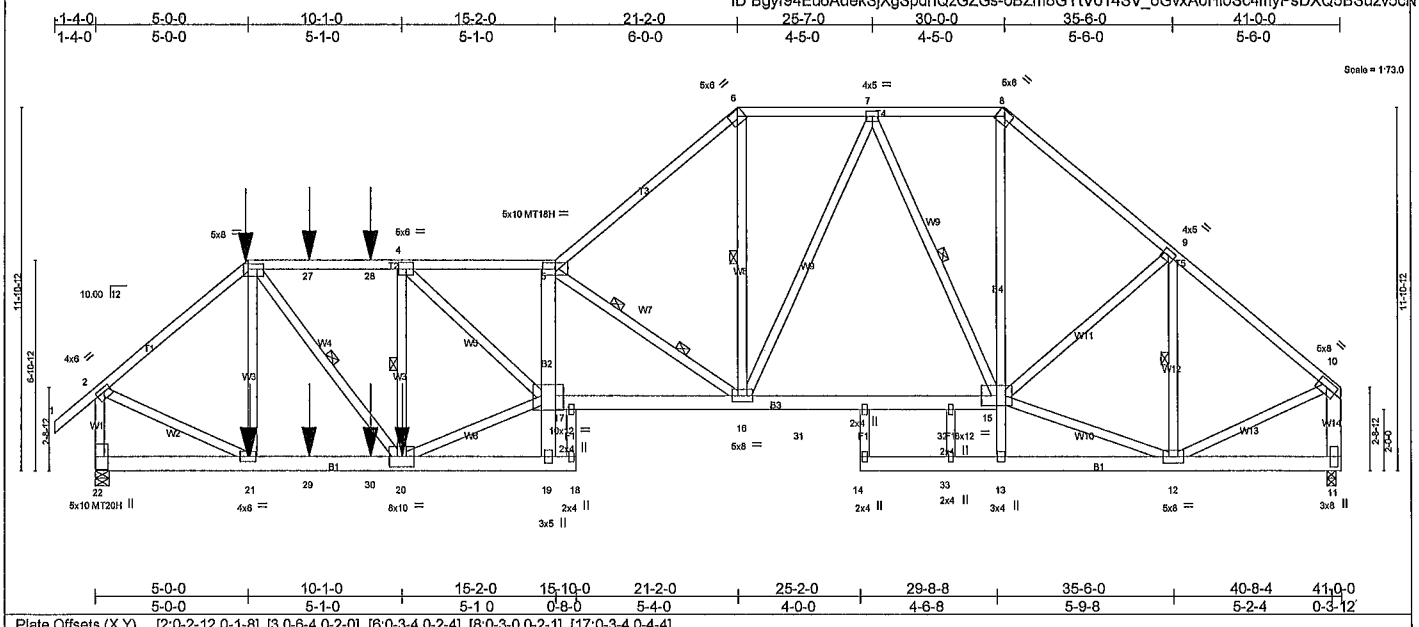

5-0-0 10-1-0 15-2-0 15-10-0 21-2-0 25-2-0 29-8-8 35-6-0 40-8-4 41-0-0

5-0-0 5-1-0 5-1 0 0-8-0 5-4-0 4-0-0 4-6-8 5-9-8 5-2-4 0-3-12

Plate Offsets (X,Y). [2:0-2-12,0-1-8], [3.0-6-4,0-2-0], [6:0-3-4,0-2-4], [8:0-3-0,0-2-1], [17:0-3-4,0-4-4]

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)	-0.44	14	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 92	Vert(TL)	-0 80	14	>612	180	MT20H	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0 97	Horz(TL)	0.27	11	n/a	n/a	MT18H	244/190
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 374 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except*
T3. 2x4 SP M 31
BOT CHORD 2x6 SP No.2 *Except*
B3: 2x6 SP SS, B4 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W6 W5: 2x4 SP No.2, W14. 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-5 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing. Except:
10-0-0 oc bracing 17 19 13-15
WEBS 1 Row at midpt 3-20 4-20, 6-16 7 15, 9-12
2 Rows at 1/3 pts 5-16
JOINTS 1 Brace at Jt(s) 15

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

REACTIONS (lb/size) 22=2460/0-5-8 (min 0-3-4) 11=1848/0-3-8 (min. 0-2-5)
Max Horz 22=305(LC 5)
Max Uplift 22=-1712(LC 8) 11=-620(LC 9)
Max Grav 22=2735(LC 2), 11=1986(LC 2)

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

TOP CHORD 2-3=-2562/1678, 3-27=-3387/1867 27-28=-3387/1867 4-28=-3387/1867 4-5=-5366/2506, 5-6=-3371/1360, 6-7=-2575/1145, 7-8=-1913/749, 8-9=-2565/916, 9-10=-1914/627 2-22=-2714/1726, 10-11=-1945/630

BOT CHORD 21-22=-292/286, 21-29=-1358/1877 29-30=-1358/1877 20-30=-1358/1877 19-20=-158/336, 5-17=-890/0, 16-17=-2534/5438 16-31=-815/2292 31-32=-815/2292 15-32=-815/2292, 13-15=0/270 8-15=-506/1314

WEBS 3-21=-685/29 3-20=-851/2457 4-20=-2152/971 17 20=-1844/3341 4-17=-860/2658, 5-16=-3543/1958, 6-16=-714/1747 7-16=-470/749 7 15=-999/564, 9-15=-299/718, 12-15=-443/1544, 9-12=-1142/374, 2-21=-1315/2068, 10-12=-451/1505

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=20ft; Cat. II Exp C Encl GCpi=0.18 MWFRS (envelope) end vertical left 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 with BCDL = 5.0psf
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 100 lb uplift at joint(s) except (jt=lb) 22=1712 11=620.
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) 92 lb down and 206 lb up at 5-0-0, and 92 lb down and 206 lb up at 7-0-12, and 92 lb down and 206 lb up at 9-0-12 on top chord, and 126 lb down and 514 lb up at 5-0-0, 37 lb down and 84 lb up at 7-0-12 and 37 lb down and 84 lb up at 9-0-12 and 1151 lb down and 404 lb up at 10-1-4 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)

Continued on page 2

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

January 15,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716438
543737	T02	Piggyback Base Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City, FL 32055

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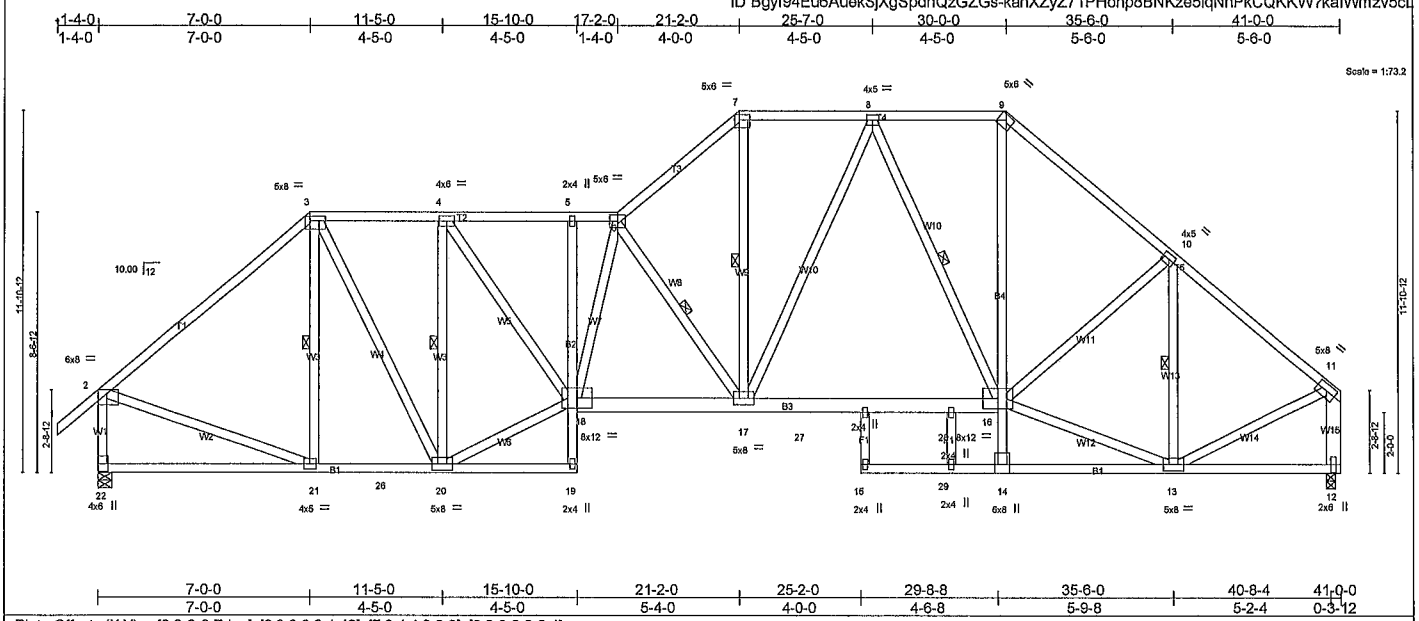

Plate Offsets (X,Y). [2:0-3-8,Edge], [3:0-6-0,0-1 12], [7:0-4-4,0-2-0], [9:0-3-0,0-2-1]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.79	Vert(LL) -0.74 15 >655 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0 99	Vert(TL) 1 18 15 >414 180	
BCLL 0 0 *	Rep Stress Incr NO	WB 0.91	Horz(TL) 0 17 12 n/a n/a	
BCDL 5 0	Code FBC2010/TPI2007	(Matrix-M)		Weight. 362 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except*
T1 2x4 SP M 31
BOT CHORD 2x4 SP No.1 *Except*
B2 2x4 SP No.3, B3 2x6 SP No.2 B4. 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1 2x4 SP No.2 W15 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
8-2-0 oc bracing 16-17
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 3-21 4-20, 6-17 7-17 8-16, 10-13
JOINTS 1 Brace at Jt(s) 16

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

REACTIONS (lb/size) 22=1476/0-5-8 (min 0-2-6) 12=1556/0-3-8 (min. 0-2-9)
Max Horz 22=307(LC 9)
Max Uplift22=-410(LC 12) 12=-336(LC 13)
Max Grav 22=1588(LC 2) 12=1651(LC 2)

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

TOP CHORD 2-3=-1948/875 3-4=-2076/1037 4-5=-3265/1517 5-6=-3264/1516, 6-7=-3287/1492
7-8=-2565/1231 8-9=-2164/1017 9-10=-2795/1203, 10-11=-2027/850 2-22=-1969/912
11-12=-2108/877
BOT CHORD 21-22=-312/315 21-26=-512/1318, 20-26=-512/1318, 17 18=-1315/3276, 17-27=-741/2150,
27-28=-741/2150, 16-28=-741/2150, 9-16=-570/1420
WEBS 3-21=-329/178 3-20=-554/1261 4-20=-1942/867, 18-20=-816/2017 4-18=-846/2093,
6-18=-767/289 6-17=-1799/933 7 17=-773/1786, 8-17=-162/370 8-16=-630/360
13-16=-594/1769 10-16=-162/623, 10-13=-1291/494, 11-13=-582/1554, 2-21=-398/1297

NOTES (10-12)

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=20ft; Cat. II Exp C Encl GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone; end vertical left 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 with BCDL = 5.0psf
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 100 lb uplift at joint(s) except (jt=lb) 22=410, 12=336.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
10) 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
11) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
12) 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

January 15,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716439
543737	T03	Piggyback Base Truss	1	1	Job Reference (optional)	

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1-4-0	5-4-0	9-0-0	15-10-0	19-2-0	21-2-0	25-7-0	30-0-0	35-6-0	41-0-0
1-4-0	5-4-0	3-8-0	6-10-0	3-4-0	2-0-0	4-5-0	4-5-0	5-6-0	5-6-0

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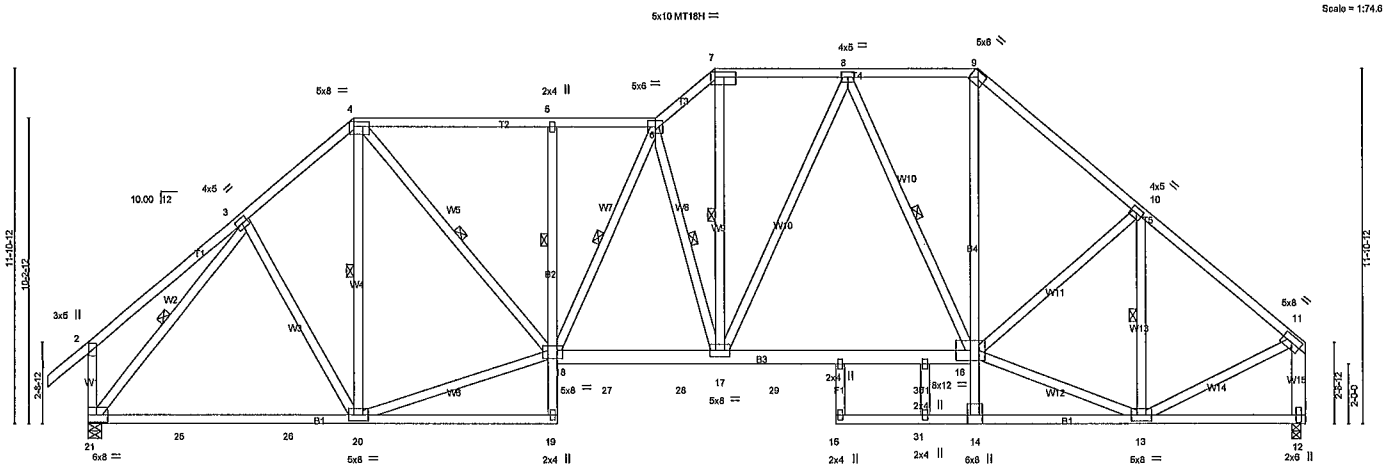

9-0-0	15-10-0	21-2-0	25-2-0	29-8-8	35-6-0	40-8-4	41-0-0
9-0-0	6-10-0	5-4-0	4-0-0	4-6-8	5-9-8	5-2-4	0-3-12

Plate Offsets (X,Y) [4.0-6-4,0-2-0], [7:0-8-4,0-2-0], [9:0-3-0,0-2-1], [18,0-2-4,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.80	Vert(LL)	-0 75	15	>649	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	1 00	Vert(TL)	1 16	15	>420	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(TL)	0.16	12	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 366 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
B2: 2x4 SP No.3, B3. 2x6 SP No.2, B4. 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W15: 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except.
1 Row at midpt 5-18
8-2-0 oc bracing 16-17
10-0-0 oc bracing 14-16
WEBS 1 Row at midpt 4-20 4-18, 6-18 6-17 7-17 8-16, 10-13, 3-21
JOINTS 1 Brace at Jt(s). 16

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

REACTIONS (lb/size) 12=1590/0-3-8 (min 0-2-9) 21=1561/0-5-8 (min. 0-2-8)
Max Horz 21=307(LC 9)
Max Uplift 12=-336(LC 13) 21=-410(LC 12)
Max Grav 12=1651(LC 2), 21=1588(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/297 3-4=-2062/994 4-5=-2705/1286, 5-6=-2701/1282 6-7=-3323/1523 7-8=-2619/1234, 8-9=-2193/1020, 9-10=-2833/1206, 10-11=-2052/851 2-21=-465/334 11 12=-2134/879
BOT CHORD 21-25=-528/1303, 25-26=-528/1303, 20-26=-528/1303 5-18=-363/274, 18-27=-1023/2756 27-28=-1023/2756, 17-28=-1023/2756, 17-29=-745/2192 29-30=-745/2192 16-30=-745/2192, 9-16=-572/1444
WEBS 3-20=-117/266, 4-20=-406/149 18-20=-470/1360, 4-18=-722/1755, 6-18=-671/217 6-17=-1629/855, 7-17=-822/1877 8-17=-161/400, 8-16=-643/362 13-16=-595/1787 10-16=-161/639, 10-13=-1307/495 11 13=-583/1575, 3-21=-2044/728

NOTES (11-13)
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=20ft; Cat. II Exp C, Encl GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone· end vertical left 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) 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, with BCDL = 5.0psf
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 100 lb uplift at joint(s) except (jt=lb) 12=336, 21=410.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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

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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716440
543737	T04	Hip Truss	1	1	Job Reference (optional)	

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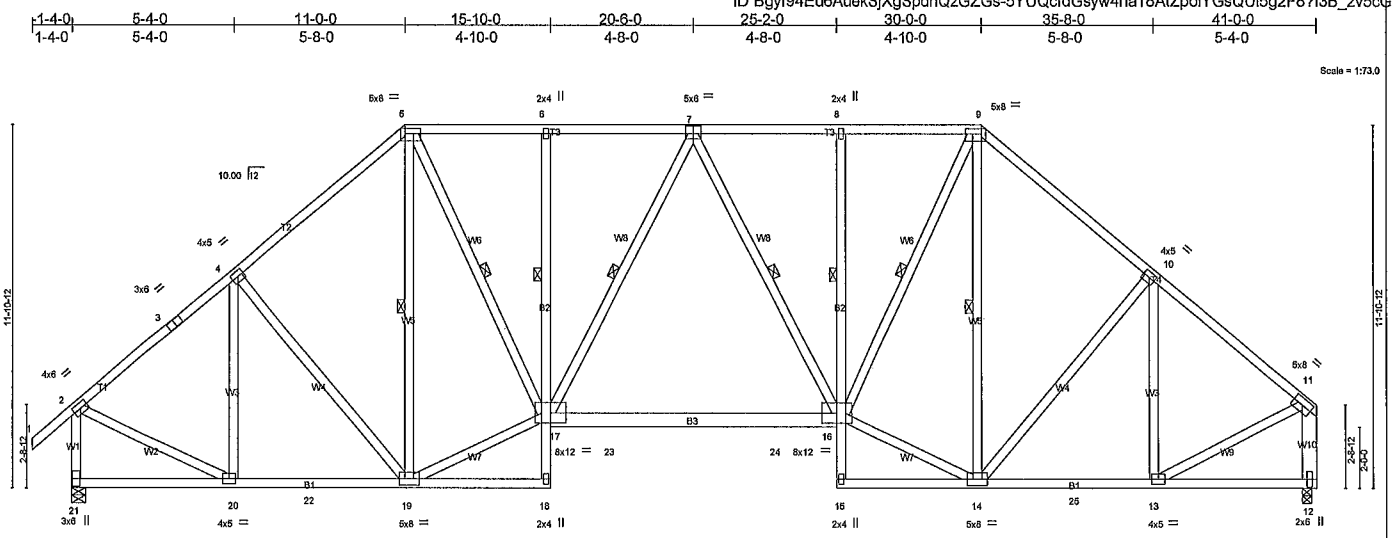

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [5:0-6-4,0-2-0], [7:0-3-0,0-3-0], [9:0-6-4,0-2-0]

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)	0.31	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.55	16-17	>882	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(TL)	0.14	12	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 355 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* B2: 2x4 SP No.3, B3 2x6 SP SS
WEBS	2x4 SP No.3 *Except* W10: 2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 6-17, 8-16
WEBS	1 Row at midpt 5-19, 5-17, 7-17, 7-16, 9-16, 9-14

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

REACTIONS (lb/size) 21=1564/0-5-8 (min 0-2-9) 12=1498/0-3-8 (min 0-2-7)
Max Horz 21=308(LC 9)
Max Uplift 21=-371(LC 12) 12=-345(LC 13)
Max Grav 21=1669(LC 2) 12=1588(LC 2)

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

TOP CHORD	2-3=-1974/870 3-4=-1843/886, 4-5=-2162/1084 5-6=-2423/1241 6-7=-2436/1244, 7-8=-2430/1238, 8-9=-2417/1234, 9-10=-2151/1072 10-11=-1933/845, 2-21=-2132/966, 11-12=-2036/879
BOT CHORD	20-21=-288/276, 20-22=-581/1411 19-22=-581/1411 6-17=-271/195, 17-23=-871/2238, 23-24=-871/2238, 16-24=-871/2238, 8-16=-271/196, 14-25=-553/1386, 13-25=-553/1386
WEBS	4-20=-558/280 5-19=-603/178, 17-19=-578/1667 5-17=-734/1769, 14-16=-566/1656 9-16=-743/1778, 9-14=-608/270 10-13=-565/307 11-13=-591/1507 2-20=-547/1539

NOTES (10-12)

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=20ft; Cat. II Exp C Encl GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone; end vertical left 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, with BCDL = 5.0psf
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 100 lb uplift at joint(s) except (jt=lb) 21=371 12=345.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
10) 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.
11) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
12) 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

January 15,2014

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

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716441
543737	T05	Piggyback Base Truss	16	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24:32 2014 Page 1

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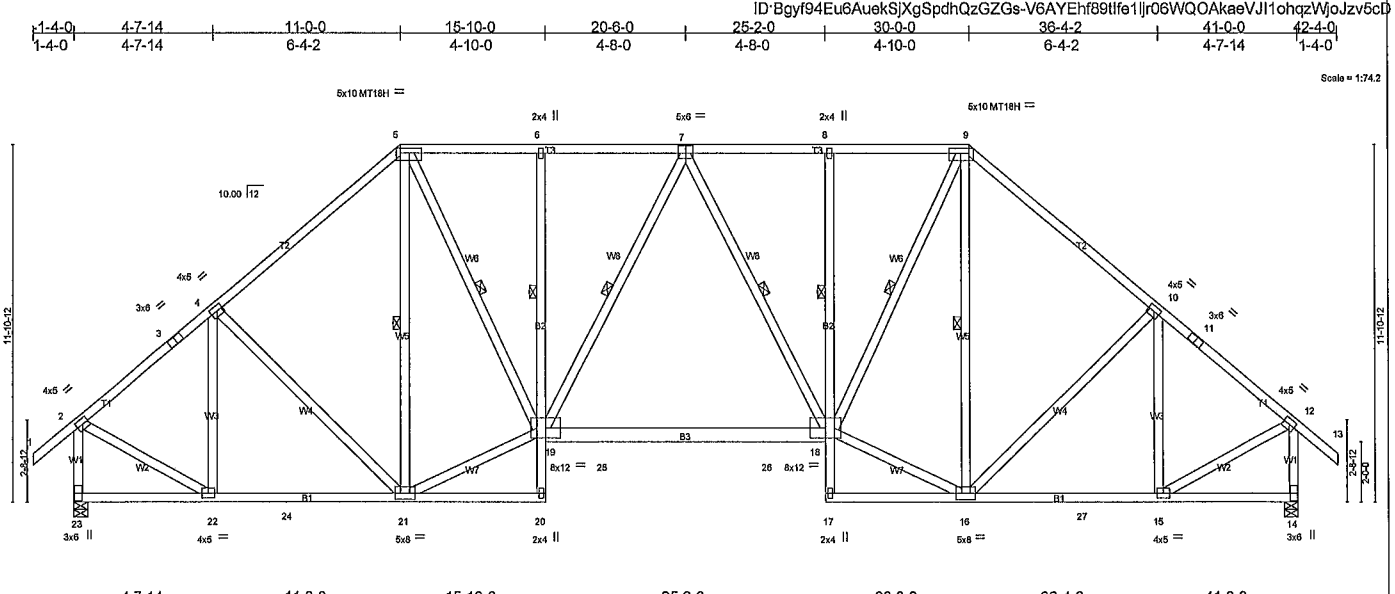

Plate Offsets (X,Y): [5:0-8-4,0-2-0], [7:0-3-0,0-3-0], [9:0-8-4,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.80	Vert(LL)	0.31	18-19	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.85	Vert(TL)	-0.55	18-19	>889	180	MT18H	244/190
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 55	Horz(TL)	0 14	14	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 353 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except*
T2 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
B2, 2x4 SP No 3, B3, 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 6-0-0 oc bracing. Except:
1 Row at midpt 8-19, 8-18
WEBS 1 Row at midpt 5-21 5-19, 7 19 7 18 9-18, 9-16

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

REACTIONS (lb/size) 23=1566/0-5-8 (min. 0-2-9) 14=1566/0-5-8 (min 0-2-9)
Max Horz 23=-327(LC 8)
Max Uplift 23=-373(LC 12) 14=-373(LC 13)
Max Grav 23=1671(LC 2), 14=1671(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1896/848, 3-4=-1782/855, 4-5=-2158/1073, 5-6=-2434/1236, 6-7=-2448/1240
7-8=-2443/1236, 8-9=-2429/1232 9-10=-2158/1073, 10-11=-1782/855, 11-12=-1896/848,
2-23=-2141/970, 12-14=-2141/970
BOT CHORD 22-23=-309/313, 22-24=-541/1451 21-24=-541/1451 6-19=-269/188, 19-25=-829/2325,
25-26=-829/2325, 18-26=-829/2325, 8-18=-269/188, 16-27=-521/1428, 15-27=-521/1428
WEBS 4-22=-648/324 4-21=-163/251 5-21=-645/188 19-21=-539/1746 5-19=-713/1797
16-18=-533/1737 9-18=-718/1804, 9-16=-656/276 10-16=-154/251 10-15=-648/324,
2-22=-581/1577 12-15=-581/1578

NOTES (11-13)
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=20ft; Cat. II Exp C, Encl GCpi=0 18 MWFRS (envelope) and C-C Exterior(2) zone end vertical 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) 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, with BCDL = 5.0psf
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 100 lb uplift at joint(s) except (jt=lb) 23=373, 14=373.
9) Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.
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

LOAD CASE(S) Standard

Continued on page 2

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

January 15,2014

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

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	T06	Piggyback Base Truss	2	1	I7716442
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

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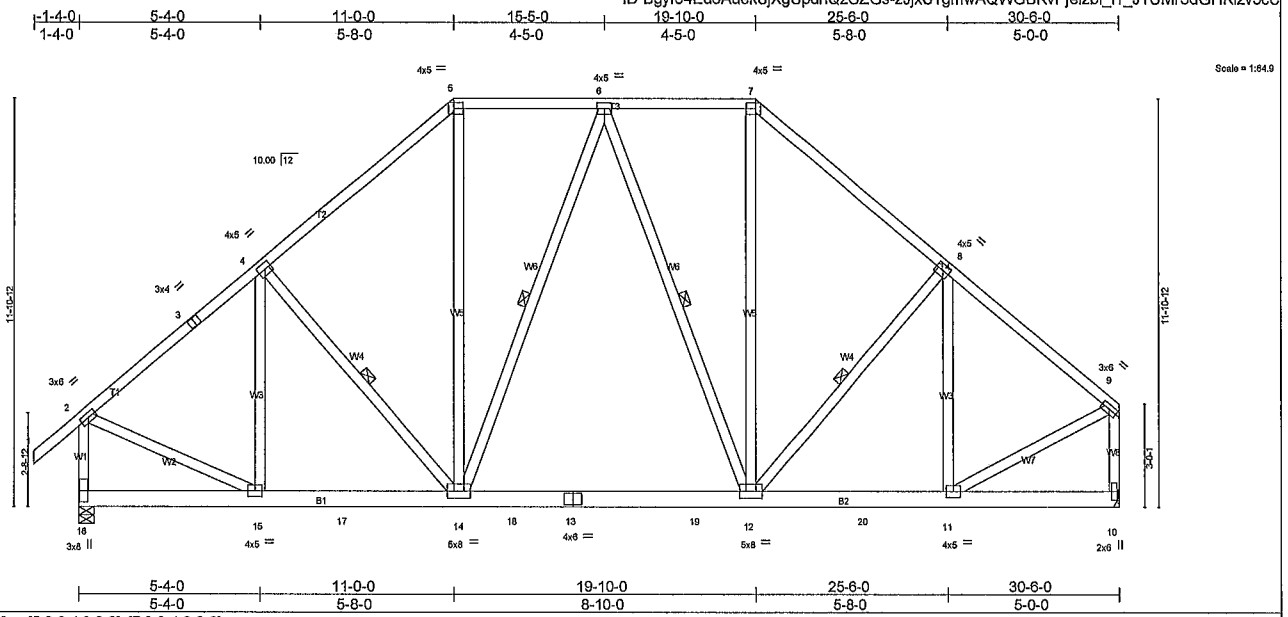

Plate Offsets (X,Y). [5:0-3-4,0-2-0], [7:0-3-4,0-2-0]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.45	Vert(LL) -0.07 12-14 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL) -0.12 12-14 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(TL) 0.02 10 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 265 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing
WEBS 1 Row at midpt 4-14 6-14, 6-12 8-12

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

REACTIONS (lb/size) 16=1035/0-5-8 (min 0-1-11) 10=970/Mechanical
Max Horz 16=-311(LC 10)
Max Uplift 16=-227(LC 12) 10=-201(LC 13)
Max Grav 16=1048(LC 2) 10=970(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1265/521 3-4=-1133/537 4-5=-1295/645, 5-6=-991/585, 6-7=-978/576, 7-8=-1279/634, 8-9=-1184/486, 2-16=-1399/609, 9-10=-1306/524
BOT CHORD 15-16=-287/289 15-17=-323/872, 14-17=-323/872 14-18=-200/769, 13-18=-200/769 13-19=-200/769 12-19=-200/769, 12-20=-286/821 11-20=-286/821
WEBS 4-15=-317/144, 4-14=-262/236, 5-14=-211/461 7 12=-204/452, 8-11=-365/187 2-15=-247/920, 9-11=-305/904

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=20ft; Cat. II Exp C, Encl GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone; end vertical left 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, with BCDL = 5.0psf
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 100 lb uplift at joint(s) except (jt=lb) 16=227 10=201
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

January 15,2014

WARNING *Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.*
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer Bracing shown is for lateral support of individual web members only Additional temporary bracing to insure stability during construction is the responsibility of the erector Additional permanent bracing of the overall structure is the responsibility of the building designer For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult **ANSI/TPI1 Quality Criteria DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	T07	Piggyback Base Truss	3	1	I7716443 Job Reference (optional)

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25 Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44 3-5=-44, 5-7=-44, 15-16=-10 13-14=-10, 13-20=-61(F=-51), 20-21=-91(F=-51) 12-21=-61(F=-51) 11-22=-40 10-22=-10, 8-10=-10

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716445
543737	T09	Common Truss	2	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

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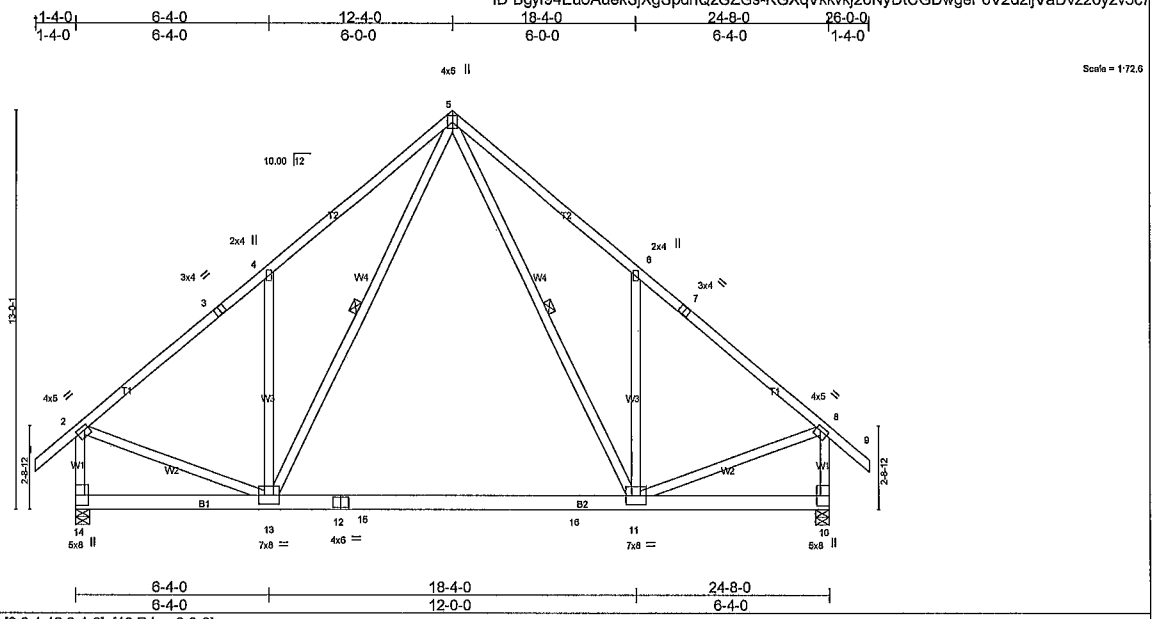

Plate Offsets (X,Y) [2:0-1-12,0-1-8], [8:0-1 12,0-1-8], [10:Edge,0-3-8]

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 70	Vert(LL) -0.32 11 13 >906 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0 57	Vert(TL) -0.60 11-13 >489 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.67	Horz(TL) 0.01 10 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 198 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.3 *Except*
W4. 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-11 5-13

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

REACTIONS (lb/size) 14=1147/0-5-8 (min 0-2-0), 10=1147/0-5-8 (min 0-2-0)
Max Horz 14=-447(LC 8)
Max Uplift 14=-552(LC 12) 10=-552(LC 13)
Max Grav 14=1291(LC 21) 10=1295(LC 21)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1780/650, 3-4=-1623/668, 4-5=-1999/1001 5-6=-1984/1001 6-7=-1608/668, 7-8=-1765/650, 2-14=-1848/730 8-10=-1834/730
BOT CHORD 13-14=-440/440, 13-15=-210/831, 12-15=-210/831 12-16=-210/831 11-16=-210/831
WEBS 5-11=-664/1132 6-11=-625/511 5-13=-664/1142 4-13=-625/511 2-13=-330/1291 8-11=-330/1305

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=20ft; Cat. II Exp C, Encl. GCpi=0 18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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, with BCDL = 5.0psf
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 100 lb uplift at joint(s) except (jt=lb) 14=552, 10=552.
7) Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.
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: 1-2=-44, 2-5=-44 5-8=-44, 8-9=-44, 13-14=-10, 13-15=-61(F=-51), 15-16=-91(F=-51) 11-16=-61(F=-51) 10-11=-10

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

January 15,2014

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer Bracing shown is for lateral support of individual web members only Additional temporary bracing to insure stability during construction is the responsibility of the erector Additional permanent bracing of the overall structure is the responsibility of the building designer For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions
543737	T09G	Common Truss	1	1	I7716446
					Job Reference (optional)

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13) 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.
14) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
15) 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 Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716448
543737	T11	Scissor Truss	3	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

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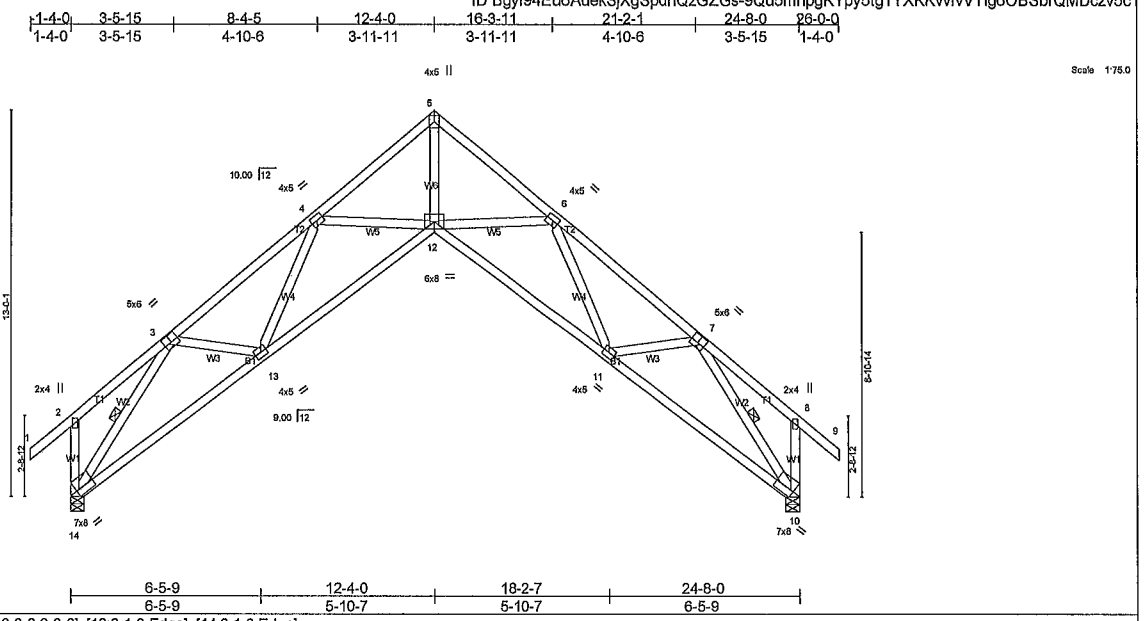

Plate Offsets (X,Y). [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [10:0-1-3,Edge], [14:0-1-3,Edge]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.35	Vert(LL) -0 17 12 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0.43	Vert(TL) -0.32 11 12 >925 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(TL) 0.56 10 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 165 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 3-8-1 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-5-12 oc bracing.
WEBS 1 Row at midpt 3-14, 7 10

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

REACTIONS (lb/size) 14=723/0-5-8 (min. 0-1-8), 10=723/0-5-8 (min. 0-1-8)
Max Horz 14=-489(LC 10)
Max Uplift 14=-351(LC 12) 10=-351(LC 13)
Max Grav 14=860(LC 2) 10=860(LC 2)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-2123/761 4-5=-2310/522 5-6=-2310/552 6-7=-2076/723, 2-14=-311/233 8-10=-306/234
BOT CHORD 13-14=-788/1438 12-13=-833/2152, 11-12=-404/2120, 10-11=-416/1339
WEBS 5-12=-652/2632, 6-12=-383/489 6-11=-581/220 7-11=-109/479, 4-12=-349/449 4-13=-502/75, 3-13=-7/422, 3-14=-1859/639, 7 10=-1966/608

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=20ft; Cat. II, Exp C Encl , GCpi=0.18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 14 and 351 lb uplift at joint 10
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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716450
543737	T12	Special Truss	16	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24:48 2014 Page 1

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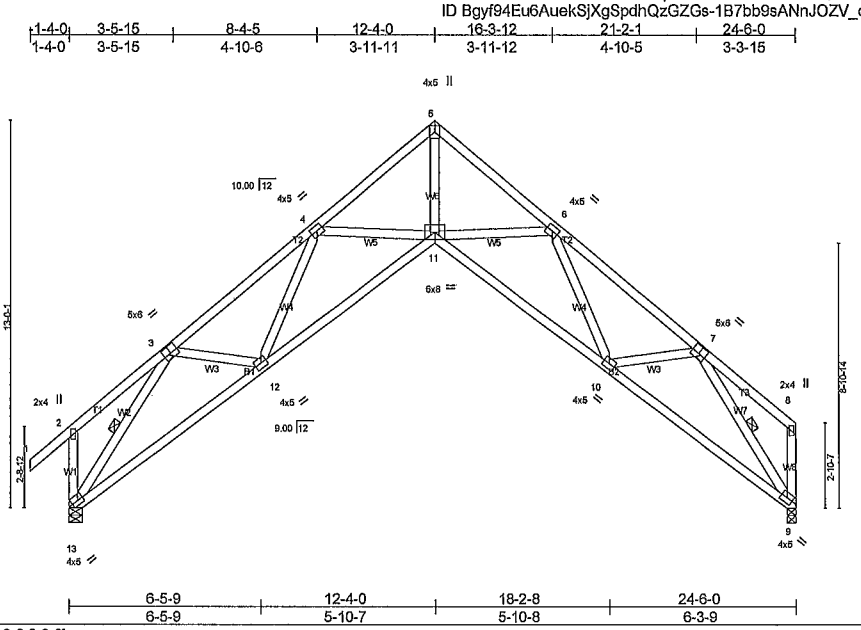

Plate Offsets (X,Y). [3:0-3-0,0-3-0], [7:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.17	11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.29	11-12	>990	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.52	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 161 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 3-8-13 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.
WEBS 1 Row at midpt 3-13, 7-9

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

REACTIONS (lb/size) 13=721/0-5-8 (min 0-1-8) 9=652/0-3-8 (min 0-1-8)
Max Horz 13=380(LC 9)
Max Uplift 13=-195(LC 12) 9=-170(LC 13)
Max Grav 13=857(LC 2), 9=772(LC 2)

FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-2065/919 4-5=-2213/788, 5-6=-2212/787 6-7=-1997/842 2-13=-310/236
BOT CHORD 12-13=-679/1350, 11 12=-734/2052 10-11=-685/2007 9-10=-555/1245
WEBS 3-12=-12/402 4-12=-473/83, 4-11=-326/418, 5-11=-871/2506, 6-11=-344/423, 6-10=-523/176, 7 10=-79/437, 3-13=-1812/707 7-9=-1873/808

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=20ft; Cat. II Exp C, Encl GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone; end vertical 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) Bearing at joint(s) 13, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 13 and 170 lb uplift at joint 9.
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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716452
543737	T13G	Common Truss	1	1	Job Reference (optional)	

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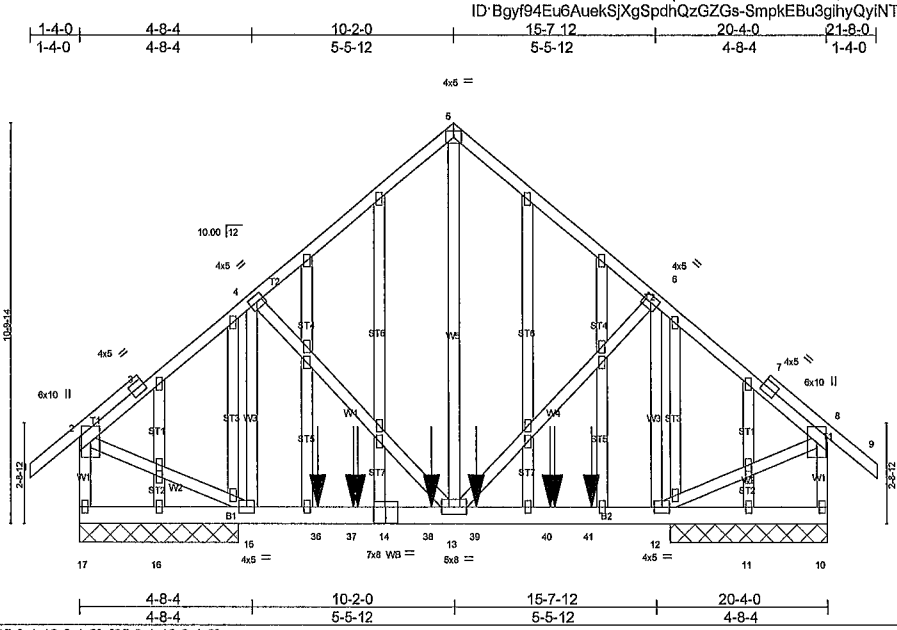

Plate Offsets (X,Y) [14:0-4-0,0-0-4], [25:0-1-13,0-1-0], [35:0-1-13,0-1-0]

LOADING (psf)		SPACING 2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase 1.25	TC	0.41	Vert(LL)	0.02	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase 1.25	BC	0.18	Vert(TL)	-0.02	12-13	>999	180		
BCLL	0 0 *	Rep Stress Incr NO	WB	0.50	Horz(TL)	0.00	10	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007	(Matrix-M)							Weight: 241 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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 All bearings 4-3-12.
(lb) - Max Horz 17=-373(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 17 10, 16, 11 except 12=-688(LC 9) 15=-706(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 16, 11 except 17=284(LC 2), 12=688(LC 2) 15=672(LC 2) 10=284(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-338/352 5-6=-338/345, 2-17=-259/75 8-10=-259/49
BOT CHORD 16-17=-352/348, 15-16=-352/348, 15-36=-238/275 36-37=-238/275, 14-37=-238/275 14-38=-238/275, 13-38=-238/275
WEBS 6-12=-531/457 4-15=-531/465

NOTES (13-15)
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=20ft; Cat. II Exp C Encl GCpi=0 18; MWFRS (envelope) gable end zone; end vertical left and right exposed; 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 studs spaced at 2-0-0 oc.
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) 17 10 16 11 except (jt=lb) 12=688 15=706.
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) 26 lb down and 64 lb up at 6-5-9 58 lb down and 91 lb up at 7-5-4 53 lb down and 93 lb up at 7-6-12, 53 lb down and 93 lb up at 9-6-12, 53 lb down and 93 lb up at 10-9-4, 53 lb down and 93 lb up at 12-9-4 and 58 lb down and 91 lb up at 12-10-12, and 26 lb down and 64 lb up at 13-10-8 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
13) 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.
14) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
15) 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

LOAD CASE(S) Standard

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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716453
543737	T14	Special Truss	3	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:24.53 2014 Page 1

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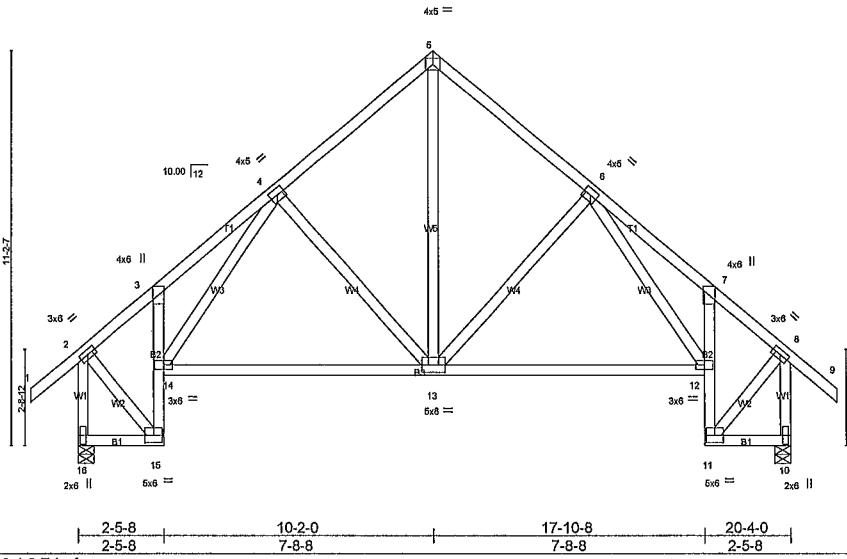

Plate Offsets (X,Y). [3:0-4-6,Edge], [7:0-4-6,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.15	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.28	13-14	>858	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(TL)	0.62	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 153 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-13 oc purlins, except end verticals
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 (lb/size) 16=606/0-5-8 (min 0-1-8) 10=606/0-5-8 (min. 0-1-8)
Max Horz 16=-337(LC 10)
Max Uplift 16=-167(LC 12) 10=-167(LC 13)
Max Grav 16=721(LC 2), 10=721(LC 2)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-660/325, 3-4=-1077/543 4-5=-832/431 5-6=-832/430, 6-7=-995/473, 7-8=-626/301
2-16=-1030/428, 8-10=-983/461
BOT CHORD 15-16=-326/310, 14-15=-372/130, 3-14=-303/181 13-14=-229/727 12-13=-159/708
11 12=-312/87 7 12=-338/162
WEBS 5-13=-379/681 6-13=-356/268, 4-13=-385/291 4-14=-269/299 2-15=-153/575, 8-11=-141/558

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=20ft; Cat. II Exp C, Encl GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone end vertical 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 100 lb uplift at joint(s) except (jt=lb) 16=167 10=167
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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716455
543737	T15G	GABLE	1	1	Job Reference (optional)	

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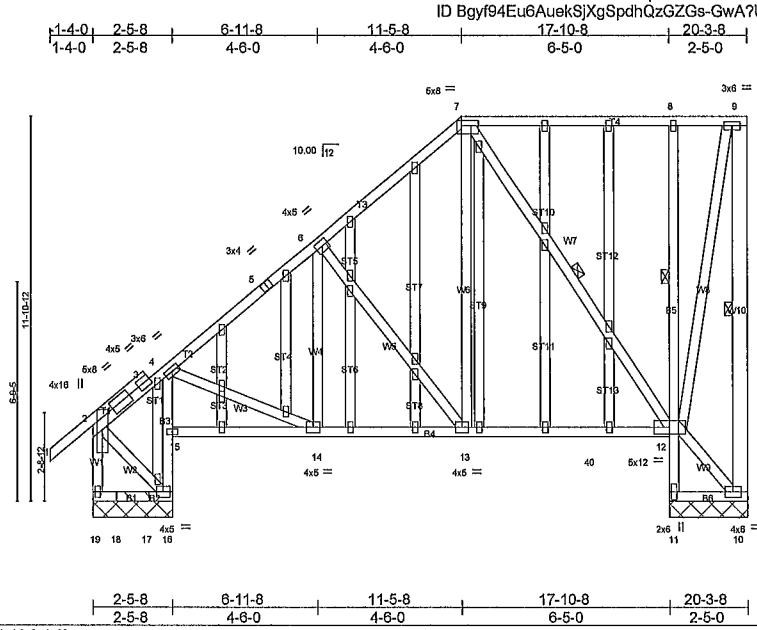


Plate Offsets (X,Y) [7:0-6-4,0-2-0], [21,0-1-12,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0 07	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.10	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 35	Horz(TL)	-0.02	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 281 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B3,B5. 2x4 SP No.3
WEBS 2x4 SP No.3 *Except* W10: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11 7 oc bracing Except:
1 Row at midpt 8-12
WEBS 1 Row at midpt 9-10, 7 12

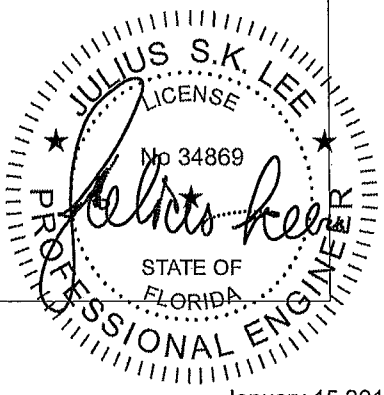
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 2-5-0 except (jt=length) 19=2-5-8, 16=2-5-8.
(lb) - Max Horz 19=466(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 19=-251(LC 10) 11=-329(LC 9) 16=-983(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10 except 19=702(LC 12) 11=606(LC 2) 16=807(LC 21)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-501/415, 3-4=-493/436, 4-5=-457/14, 5-6=-330/27 6-7=-416/129, 2-19=-709/551
BOT CHORD 18-19=-518/434, 17-18=-518/434, 16-17=-518/434, 15-16=-902/499 4-15=-874/512 13-14=-284/466, 13-40=-173/321 12-40=-173/321 11-12=-783/419 8-12=-348/270
WEBS 4-14=-233/442, 7 13=-124/347 7 12=-534/284, 2-16=-603/714

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=20ft; Cat. II Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed 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) Provide adequate drainage to prevent water ponding
5) All plates are 2x4 MT20 unless otherwise indicated
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, with BCDL = 5.0psf
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) 10 except (jt=lb) 19=251 11=329 16=983.
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



January 15,2014

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design paramenters and proper incorporation of component is responsibility of building designer not truss designer Bracing shown is for lateral support of individual web members only Additional temporary bracing to insure stability during construction is the responsibility of the erector Additional permanent bracing of the overall structure is the responsibility of the building designer For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

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

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716457
543737	T17	Monopitch Truss	11	1	Job Reference (optional)	

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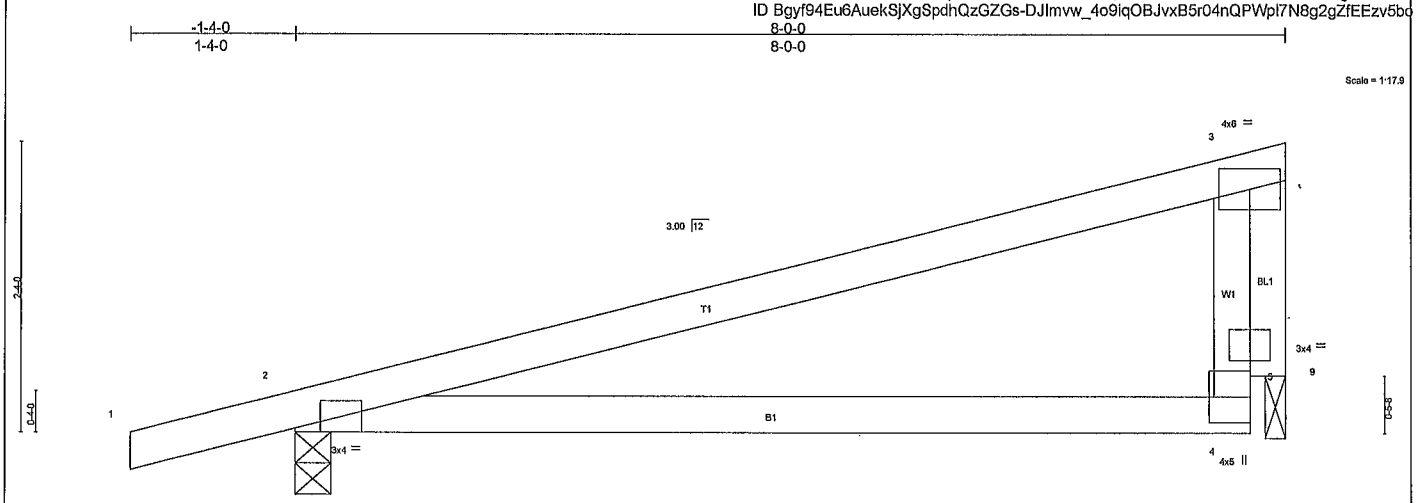

Plate Offsets (X,Y). [2.0-2-7,Edge], [4.Edge,0-3-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	0.27	4-8	>351	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.46	Vert(TL)	0.23	4-8	>411	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: 31 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-11 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=303/0-3-8 (min. 0-1-8) 9=164/0-2-0 (min. 0-1-8)
Max Horz 2=83(LC 8)
Max Uplift 2=-249(LC 8) 9=-140(LC 8)
Max Grav 2=362(LC 2) 9=194(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-866/1677
BOT CHORD 2-4=-1853/949

NOTES (9-11)
1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph· TCDL=4.2psf· BCDL=3.0psf· h=20ft; 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=249 9=140.
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

January 15,2014

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design parameters and proper incorporation of component is responsibility of building designer not truss designer Bracing shown is for lateral support of individual web members only Additional temporary bracing to insure stability during construction is the responsibility of the erector Additional permanent bracing of the overall structure is the responsibility of the building designer For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive Madison, WI 53719

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716459
543737	T19	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 15 13:25:01 2014 Page 1

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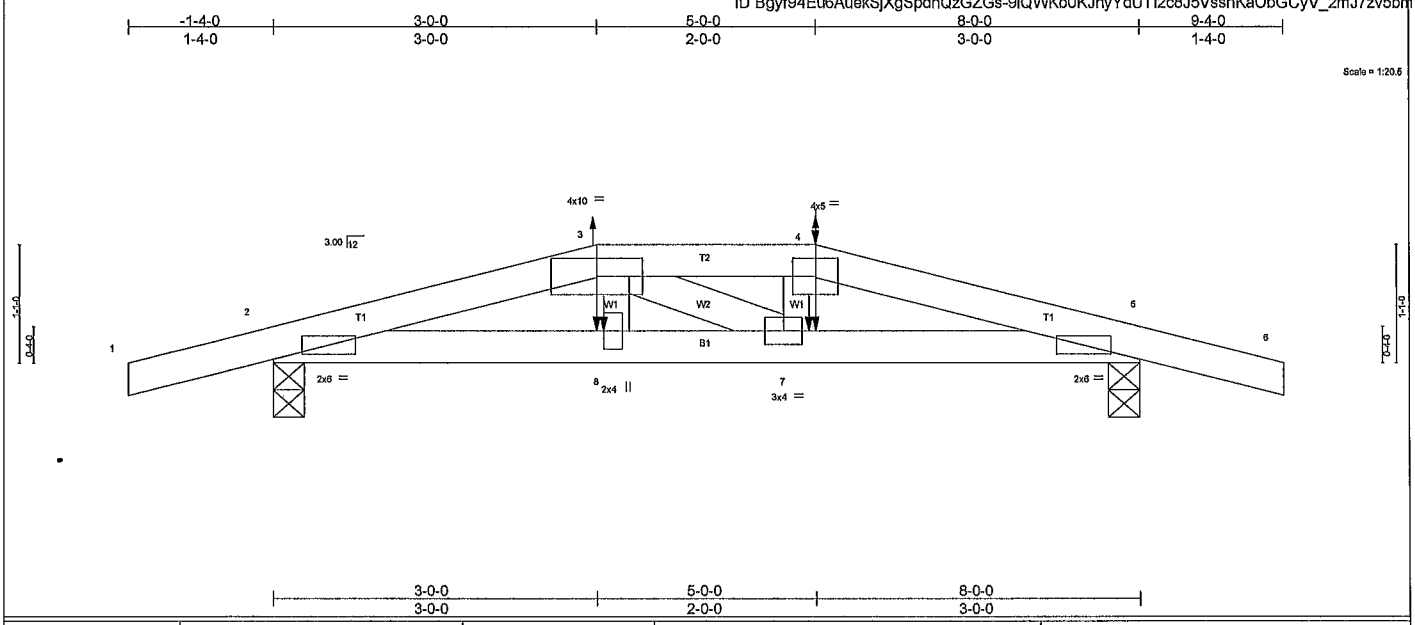

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0.13	Vert(LL)	0 03	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0 19	Vert(TL)	-0.03	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 32 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 6-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 8-3-6 oc bracing

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

REACTIONS (lb/size) 2=307/0-3-8 (min. 0-1-8) 5=312/0-3-8 (min 0-1-8)
Max Horz 2=19(LC 4)
Max Uplift 2=-289(LC 4) 5=-299(LC 5)
Max Grav 2=366(LC 2), 5=371(LC 2)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-626/524, 3-4=-616/549, 4-5=-644/554
BOT CHORD 2-8=-489/593, 7-8=-499/600, 5-7=-510/610

NOTES (11-13)
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=20ft; 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) 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 100 lb uplift at joint(s) except (jt=lb) 2=289 5=299.
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) 8 lb down and 52 lb up at 3-0-0, and 25 lb down and 121 lb up at 5-0-0 on top chord and 31 lb down and 82 lb up at 3-0-0, and 31 lb down and 82 lb up at 4-11-4 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

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1 25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-44 4-6=-44 9-12=-10
Concentrated Loads (lb)
Vert: 3=0(B) 4=-18(B) 8=-26(B) 7=-26(B)

January 15,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716461
543737	V02	GABLE	2	1	Job Reference (optional)	

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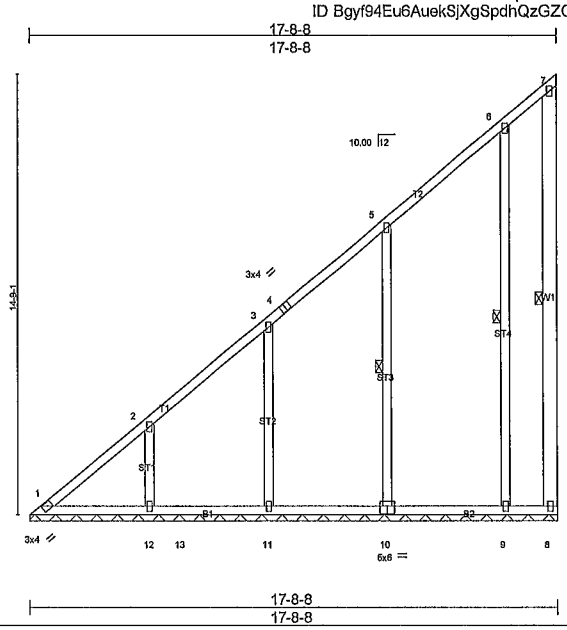

Plate Offsets (X,Y). [10:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix)							Weight: 139 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2
OTHERS	2x4 SP No.3 *Except* ST4, 2x4 SP No 2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-8, 5-10 6-9

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

REACTIONS All bearings 17-8-8.

(lb) - Max Horz 1=493(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8 except 1=-114(LC 10) 12=-189(LC 12) 11=-173(LC 12) 10=-185(LC 12) 9=-138(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8 except 1=349(LC 12) 12=345(LC 21) 11=411(LC 21), 10=431(LC 21) 9=315(LC 21)

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

TOP CHORD 1-2=-801/678, 2-3=-594/502, 3-4=-393/303, 4-5=-373/336

WEBS 2-12=-388/293, 3-11=-368/280, 5-10=-390/296, 6-9=-300/227

NOTES (9-11)

1) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph· TCDL=4.2psf· BCDL=3.0psf; h=20ft, 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
2) All plates are 2x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
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, with BCDL = 5.0psf
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 100 lb uplift at joint(s) 8 except (jt=lb) 1=114, 12=189, 11=173, 10=185, 9=138.
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

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716463
543737	V04	Valley Truss	1	1	Job Reference (optional)	

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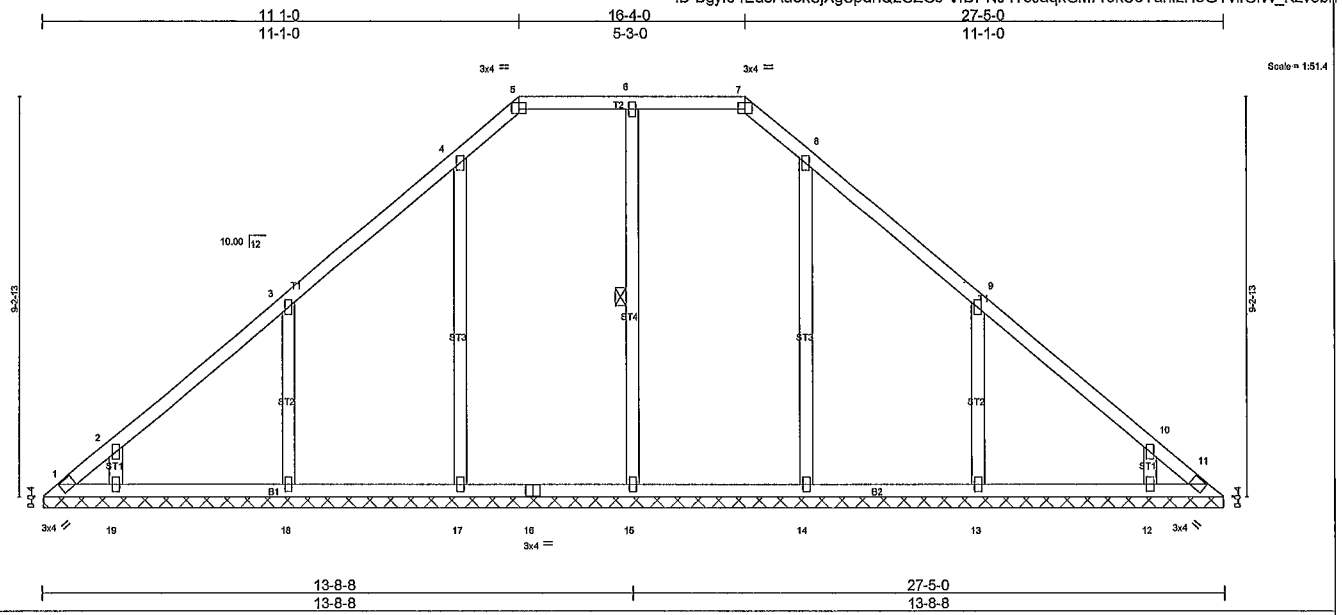

Plate Offsets (X,Y): [5:0-2-0,0-1 13], [7:0-2-0,0-1 13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 32	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 140 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 6-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-15

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

REACTIONS All bearings 27-4-6.
(lb) - Max Horz 1=-228(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 15 except 1=-132(LC 10) 11=-112(LC 11) 17=-115(LC 12) 18=-195(LC 12) 19=-143(LC 12) 14=-108(LC 13) 13=-196(LC 13) 12=-142(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1 11 19 12 except 15=302(LC 1) 17=380(LC 21) 18=373(LC 21) 14=370(LC 22) 13=375(LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-384/341 10-11=-384/341
BOT CHORD 1 19=-247/290, 18-19=-247/290, 17-18=-247/290, 16-17=-247/290, 15-16=-247/290, 14-15=-247/290, 13-14=-247/290, 12-13=-247/290 11-12=-247/290
WEBS 4-17=-279/187, 3-18=-404/312, 2-19=-312/234 8-14=-279/187 9-13=-404/312, 10-12=-312/234

NOTES (11-13)
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=20ft; 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) All plates are 2x4 MT20 unless otherwise indicated
5) Gable requires continuous bottom chord bearing.
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 with BCDL = 5.0psf
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) 15 except (jt=lb) 1=132 11=112, 17=115, 18=195, 19=143, 14=108, 13=196, 12=142.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
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

LOAD CASE(S) Standard

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

January 15,2014

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design paramenters and proper incorporation of component is responsibility of building designer not truss designer Bracing shown is for lateral support of individual web members only Additional temporary bracing to insure stability during construction is the responsibility of the erector Additional permanent bracing of the overall structure is the responsibility of the building designer For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

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

Job	Truss	Truss Type	Qty	Ply	Jennings Additions	I7716465
543737	V06	Valley Truss	1	1	Job Reference (optional)	

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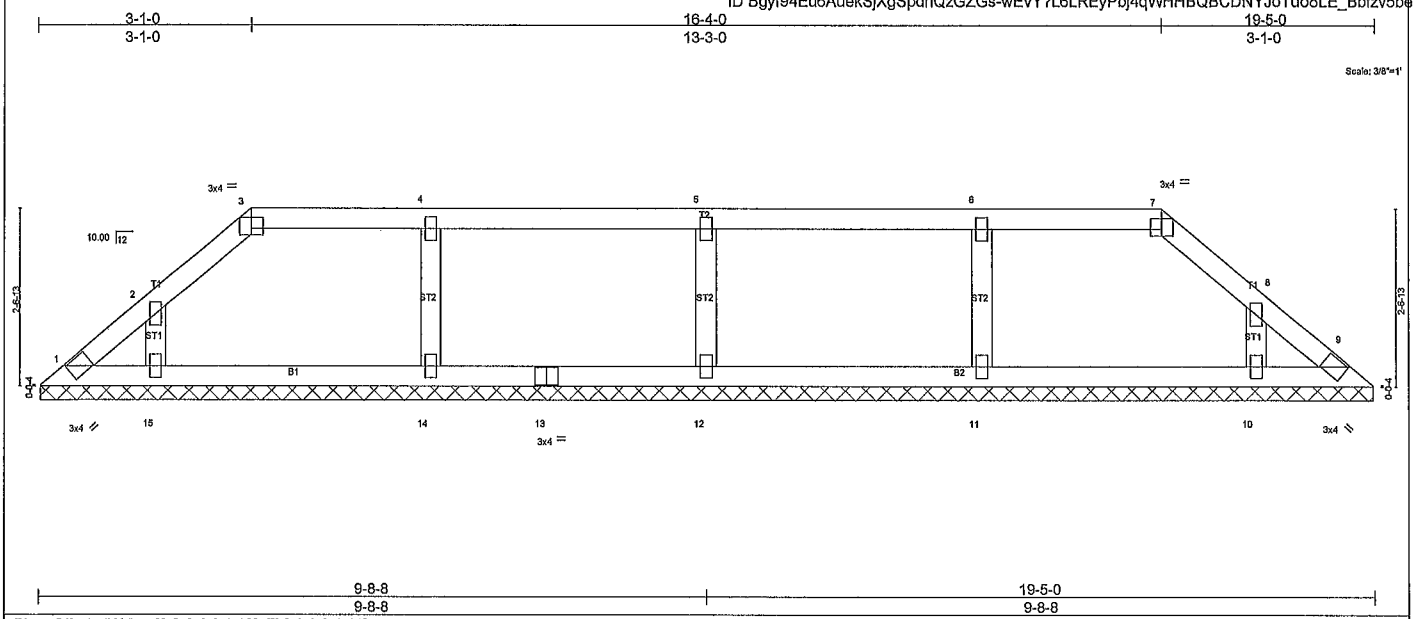


Plate Offsets (X,Y). [3:0-2-0,0-1 13], [7:0-2-0,0-1-13]

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 15	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 70 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 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 All bearings 19-4-6.
(lb) - Max Horz 1=-58(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 9, 12 14, 15, 11 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9 14, 15 11 10 except 12=263(LC 27)

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

NOTES (11 13)
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=20ft; 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) All plates are 2x4 MT20 unless otherwise indicated
5) Gable requires continuous bottom chord bearing.
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) 1 9 12, 14, 15, 11 10.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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

LOAD CASE(S) Standard

January 15,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

August 10, 2010	T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY	ST - T-BRACE 2

MiTek Industries, Inc.

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

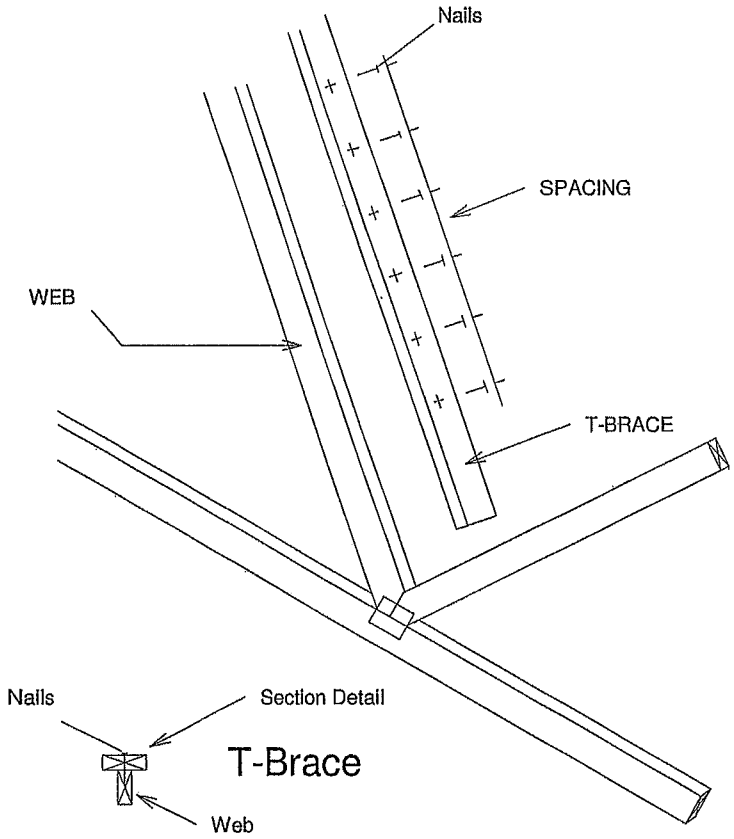
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

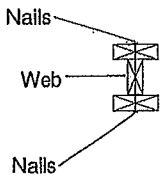
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

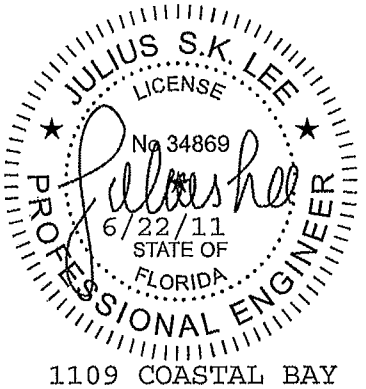
	Brace Size for One-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.







1109 COASTAL BAY
BOYNTON BC, FL 33435

JANUARY 1, 2009	LATERAL TOE-NAIL DETAIL	ST-TOENAIL_SP

MiTek Industries, Inc.

NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

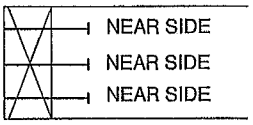
TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SYP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80 6	69.9	68.4	59.7
	135	93.5	85.6	74.2	72.6	63.4
	.162	108 8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57 6	50.3
	.131	75.9	69.5	60.3	59 0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

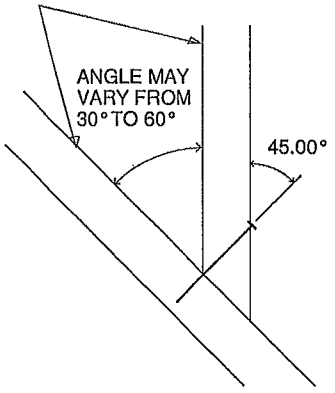
SIDE VIEW

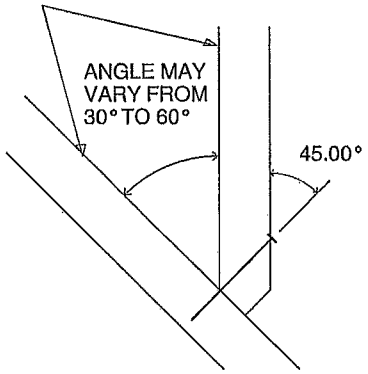
3 NAILS

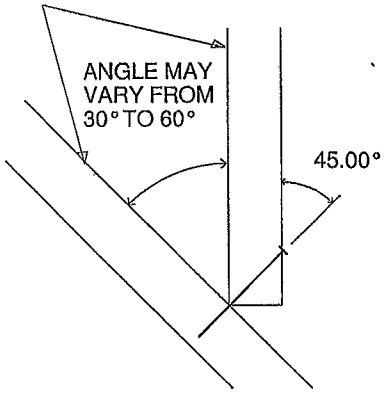


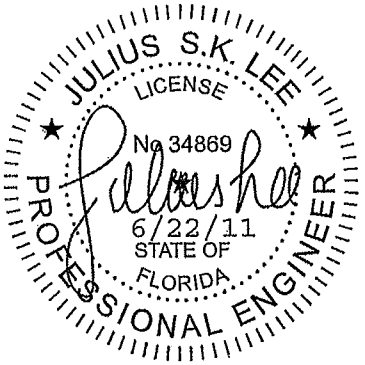
EXAMPLE:
(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity









1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 14, 2012	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	ST-PIGGY-7-10

MiTek Industries, Chesterfield, MO

MiTek Industries, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 DURATION OF LOAD INCREASE : 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

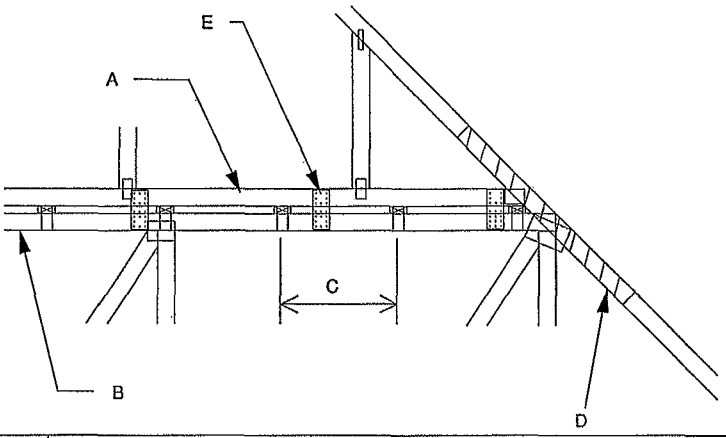
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED

B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH

D - 2 X __ X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

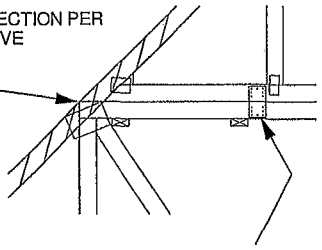
E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C W/ (4) 0 131" X 1.5" PER MEMBER STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ REGARDLESS OF SPAN)



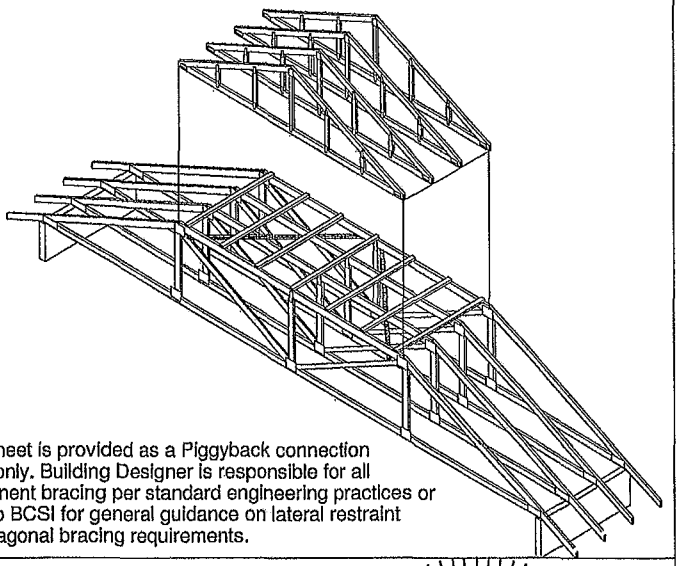
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS.

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER NOTE D ABOVE

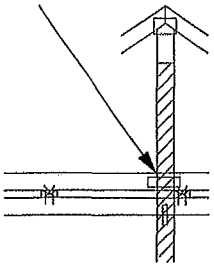


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0 5" EDGE DISTANCE.



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0 131" X 3") NAILS SPACED 4" O C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

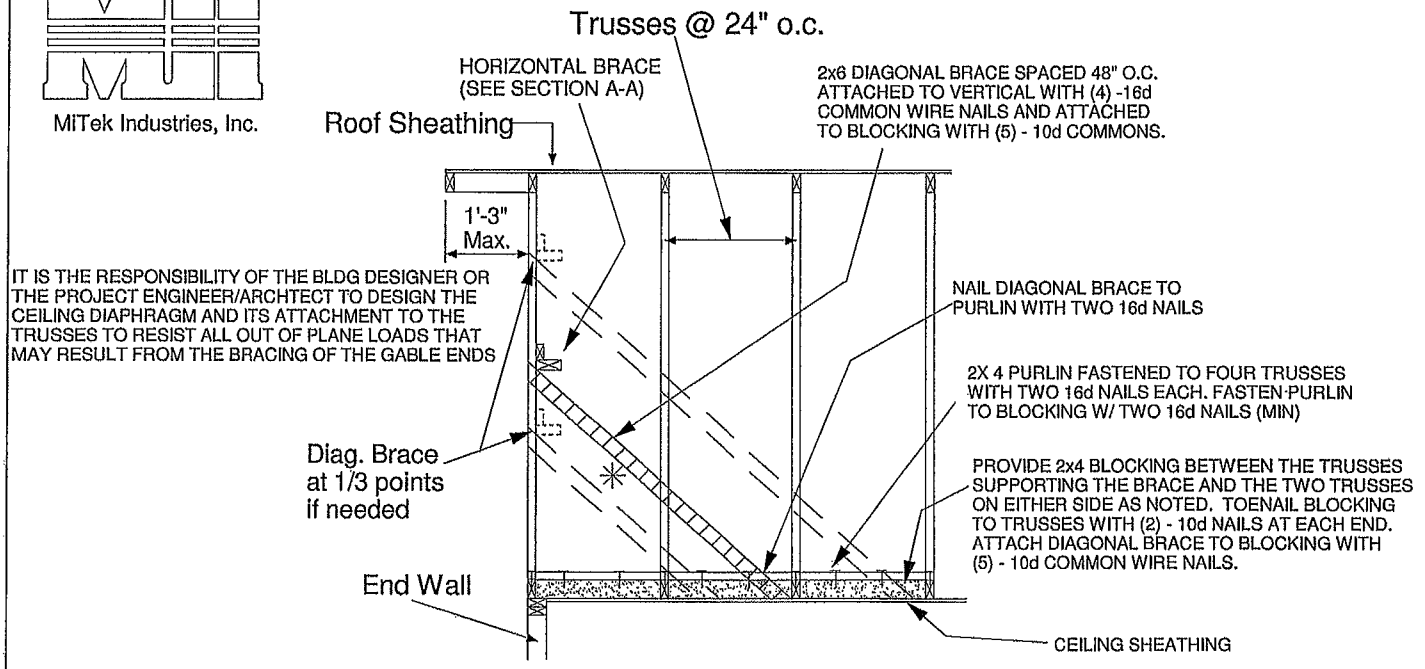
JULIUS S.K. LEE LICENSE No 34869 3/29/12 STATE OF FLORIDA PROFESSIONAL ENGINEER

1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 14, 2012	Standard Gable End Detail	SHEET 2

MiTek Industries, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

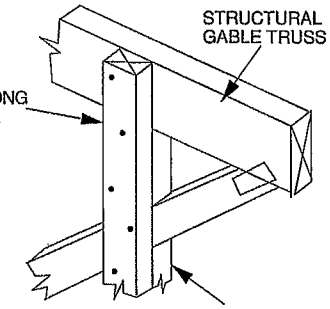
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 - ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

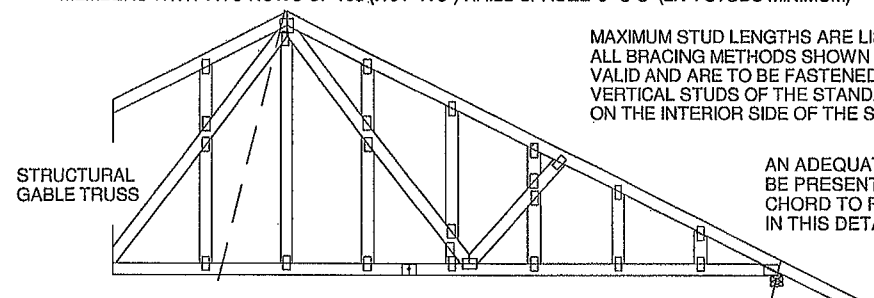
METHOD 2 ATTACH 2X_ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (131" X 3") NAILS SPACED 6" O C.
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (.131" X 3") NAILS SPACED 6" O C (2X 4 STUDS MINIMUM)

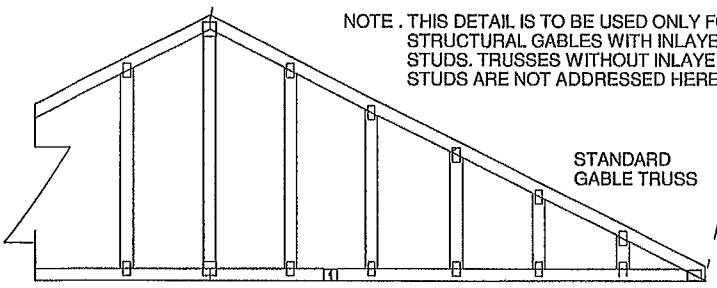


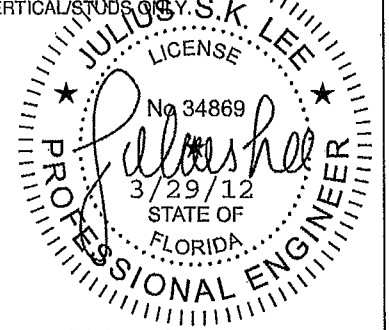
MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1 ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL STUDS ONLY.

NOTE . THIS DETAIL IS TO BE USED ONLY FOR STRUCTURAL GABLES WITH INLAYED STUDS. TRUSSES WITHOUT INLAYED STUDS ARE NOT ADDRESSED HERE





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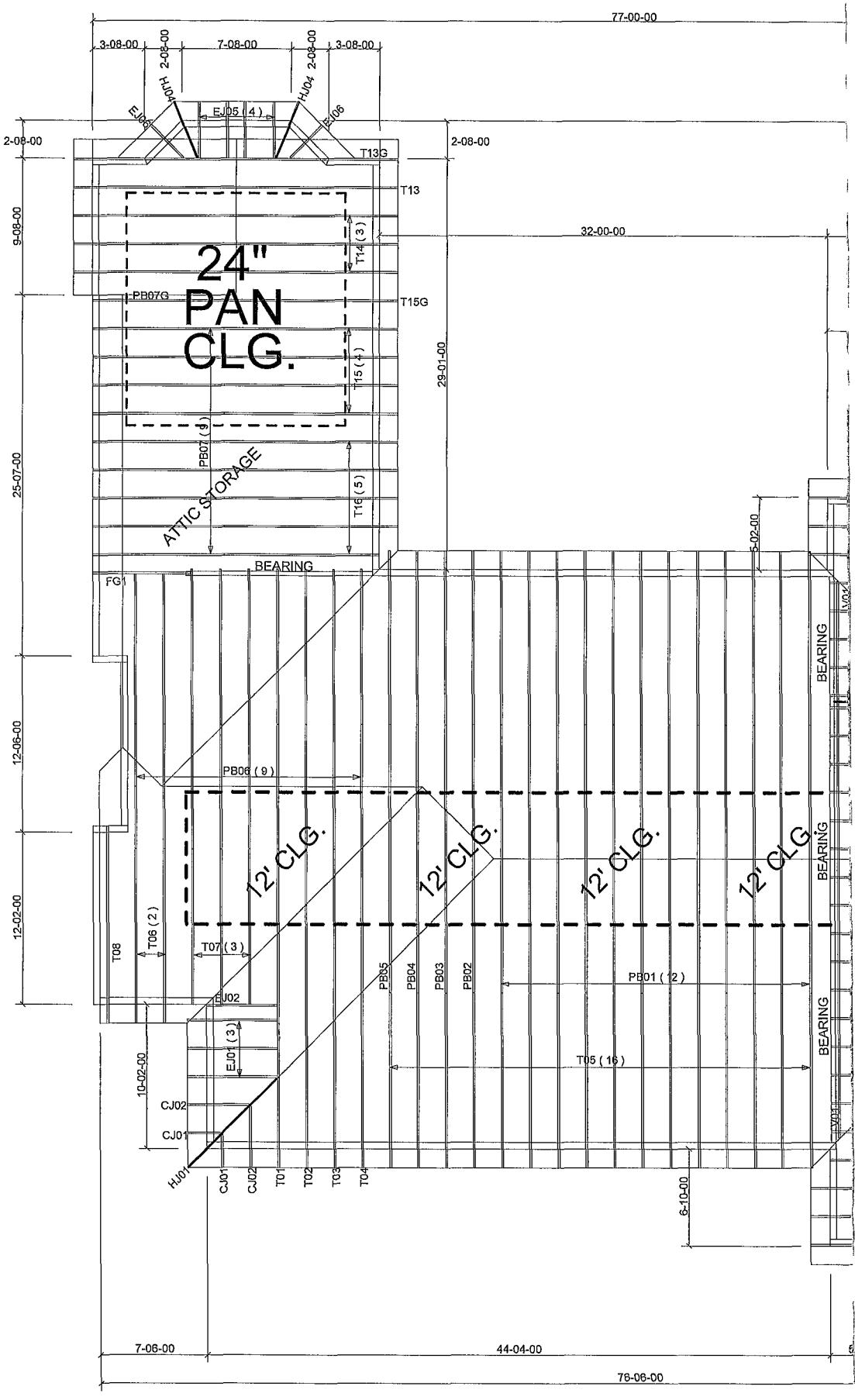

MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, WEYERH