

# JULIUS LEE PE.

RE: 425247 -

**1109 COASTAL BAY BLVD,  
BOYNTON BEACH, FL 33435**

## Site Information:

Project Customer: Dreambuilder Custom Homes Project Name: 425247 Model: Kane Residence  
Lot/Block: . Subdivision: .  
Address: 7 Ocean Drive  
City: Duval State: Florida

## Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: Pontigo, Luis Antonio, PE License #: 53311  
Address: 420 Osceola Ave.  
City: Jacksonville Beach State: Florida

## General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

FBC 2010/TPI 2007 Design Program: MiTek 20/20 7.3  
ASCE 7-10 Wind Speed: 130 mph Floor Load: 55.0 psf  
Roof Load: 32.0 psf

This package includes 77 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.**

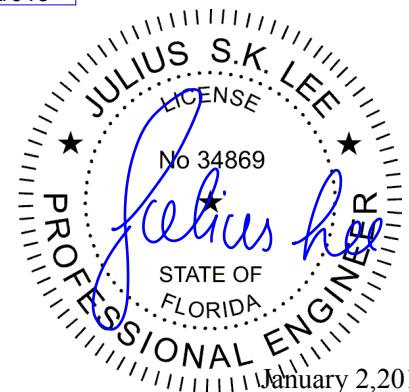
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I6252449	CJ01	1/2/013	18	I6252466	F16	1/2/013
2	I6252450	CJ02	1/2/013	19	I6252467	F17	1/2/013
3	I6252451	CJ03	1/2/013	20	I6252468	F18	1/2/013
4	I6252452	EJ01	1/2/013	21	I6252469	F19	1/2/013
5	I6252453	F01	1/2/013	22	I6252470	F19B	1/2/013
6	I6252454	F02	1/2/013	23	I6252471	F20	1/2/013
7	I6252455	F02A	1/2/013	24	I6252472	F23	1/2/013
8	I6252456	F03	1/2/013	25	I6252473	F24	1/2/013
9	I6252457	F07	1/2/013	26	I6252474	F25	1/2/013
10	I6252458	F08	1/2/013	27	I6252475	F26	1/2/013
11	I6252459	F09	1/2/013	28	I6252476	F27	1/2/013
12	I6252460	F10	1/2/013	29	I6252477	F28	1/2/013
13	I6252461	F11	1/2/013	30	I6252478	F29	1/2/013
14	I6252462	F12	1/2/013	31	I6252479	F30	1/2/013
15	I6252463	F14	1/2/013	32	I6252480	F31	1/2/013
16	I6252464	F14A	1/2/013	33	I6252481	F32	1/2/013
17	I6252465	F15	1/2/013	34	I6252482	F33	1/2/013

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, 2013.

**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 2, 2013

RE: 425247 -

**Site Information:**

Project Customer: Dreambuilder Custom Homes Project Name: 425247 Model: Kane Residence  
Lot/Block: . Subdivision: .  
Address: 7 Ocean Drive  
City: Duval State: Florida

No.	Seal#	Truss Name	Date
35	I6252483	F34	1/2/013
36	I6252484	F35	1/2/013
37	I6252485	F36	1/2/013
38	I6252486	F37	1/2/013
39	I6252487	F38	1/2/013
40	I6252488	F39	1/2/013
41	I6252489	FKW01	1/2/013
42	I6252490	FKW02	1/2/013
43	I6252491	FKW03	1/2/013
44	I6252492	HJ01	1/2/013
45	I6252493	P01	1/2/013
46	I6252494	P02	1/2/013
47	I6252495	T01	1/2/013
48	I6252496	T02	1/2/013
49	I6252497	T03	1/2/013
50	I6252498	T04	1/2/013
51	I6252499	T05	1/2/013
52	I6252500	T06	1/2/013
53	I6252501	T07	1/2/013
54	I6252502	T08	1/2/013
55	I6252503	T09	1/2/013
56	I6252504	T10	1/2/013
57	I6252505	T11	1/2/013
58	I6252506	T12	1/2/013
59	I6252507	T13	1/2/013
60	I6252508	T14	1/2/013
61	I6252509	T15	1/2/013
62	I6252510	T16	1/2/013
63	I6252511	T17	1/2/013
64	I6252512	T18	1/2/013
65	I6252513	T19	1/2/013
66	I6252514	T20	1/2/013
67	I6252515	T30	1/2/013
68	I6252516	T31	1/2/013
69	I6252517	T32	1/2/013
70	I6252518	T33	1/2/013
71	I6252519	T34	1/2/013
72	I6252520	T35	1/2/013
73	I6252521	T36	1/2/013
74	I6252522	T38	1/2/013
75	I6252523	T39	1/2/013
76	I6252524	TG01	1/2/013
77	I6252525	TG02	1/2/013

Job 425247	Truss CJ01	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 6252449
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:39 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yx31-OrHmSKIUVBA\_P6DBoZjzVFzNTA4WqTPbpi7tDzzPqY

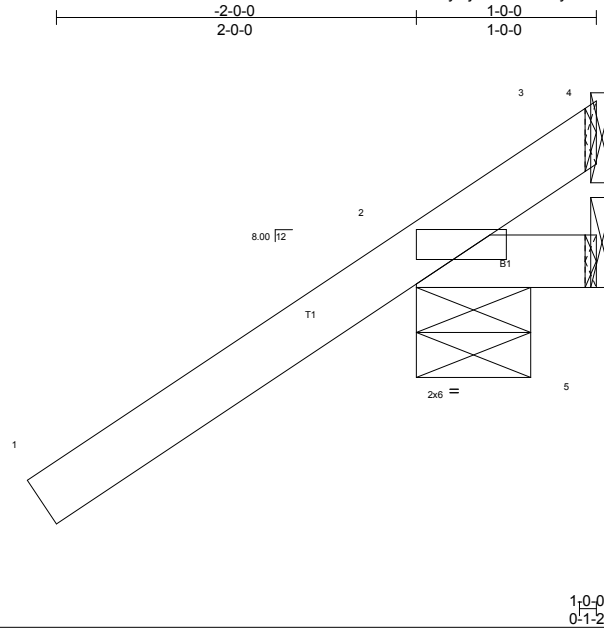


Plate Offsets (X,Y): [2-0-6-0,0-1-10]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.52	Vert(LL) -0.00 2 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.01	Vert(TL) -0.00 2 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 3 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 7 lb FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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.

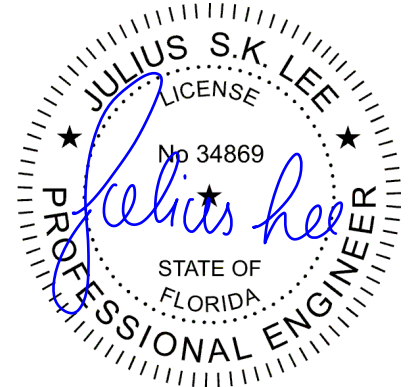
**REACTIONS** (lb/size) 2=237/0-7-10 (min. 0-1-8), 5=5/Mechanical, 3=-99/Mechanical  
Max Horz 2=117(LC 12)  
Max Uplift 2=-276(LC 12), 3=-122(LC 2)  
Max Grav 2=290(LC 2), 5=14(LC 3), 3=131(LC 16)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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 276 lb uplift at joint 2 and 122 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 SP, 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 2, 2013

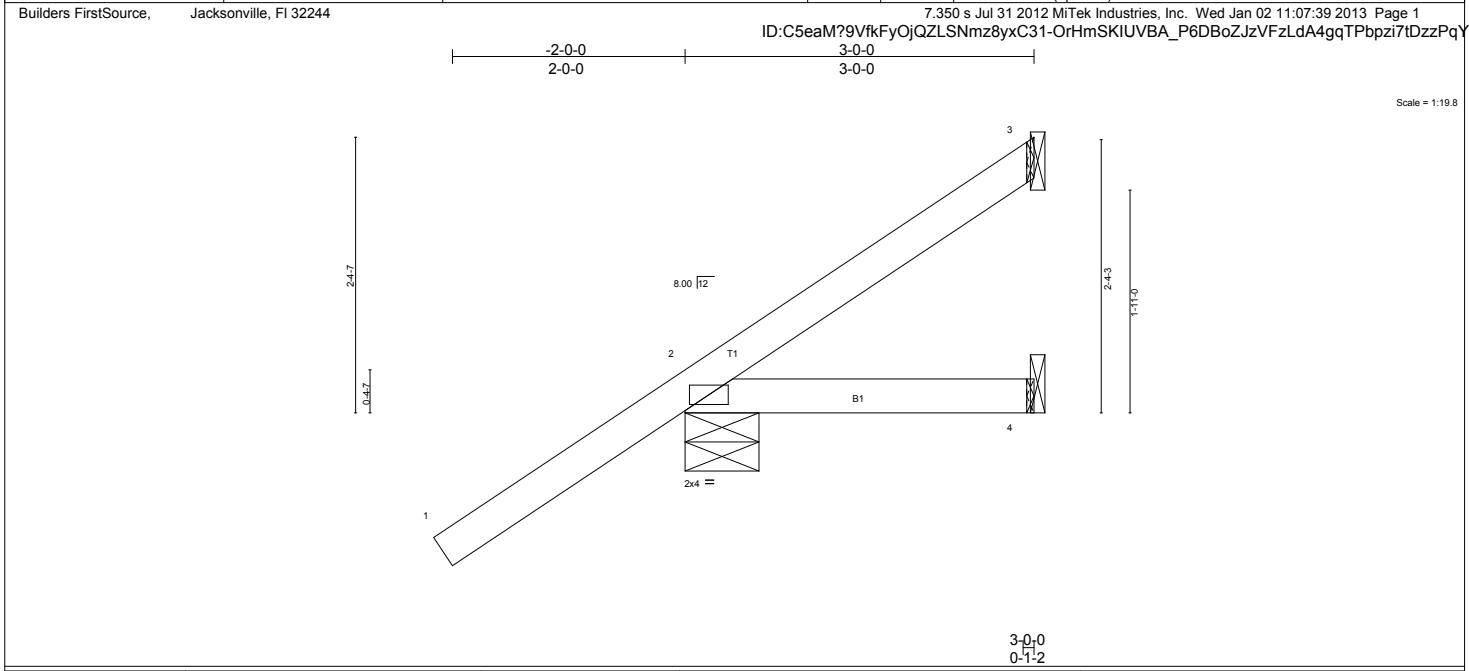
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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 BCS11 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 425247	Truss CJ02	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional)	16252450
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:39 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.64 BC 0.06 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2-4 >999 240 Vert(TL) -0.00 2-4 >999 180 Horz(TL) 0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 14 lb FT = 20%
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**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=9/Mechanical, 2=225/0-7-10 (min. 0-1-8), 4=13/Mechanical  
 Max Horz 2=197(LC 12)  
 Max Uplift 3=51(LC 12), 2=191(LC 12)  
 Max Grav 3=73(LC 10), 2=273(LC 2), 4=39(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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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 51 lb uplift at joint 3 and 191 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 SP, 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

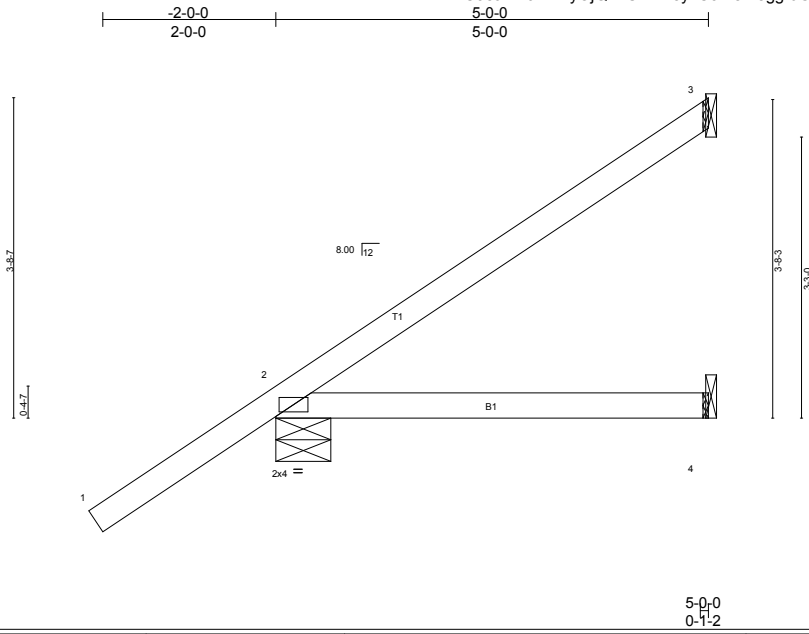
**LOAD CASE(S)** Standard



January 2, 2013

Job 425247	Truss CJ03	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 6252451
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:40 2013 Page 1  
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Scale = 1:26.6

<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.67 BC 0.21 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.03 2-4 >999 240 Vert(TL) -0.05 2-4 >999 180 Horz(TL) 0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 20 lb FT = 20%
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**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=74/Mechanical, 2=258/0-7-10 (min. 0-1-8), 4=23/Mechanical  
 Max Horz 2=281(LC 12)  
 Max Uplift 3=-162(LC 12), 2=-182(LC 12)  
 Max Grav 3=144(LC 21), 2=311(LC 2), 4=69(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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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 162 lb uplift at joint 3 and 182 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 SP, 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 2, 2013

Job 425247	Truss EJ01	Truss Type Jack-Partial Truss	Qty 2	Ply 1	Job Reference (optional) 6252452
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:41 2013 Page 1  
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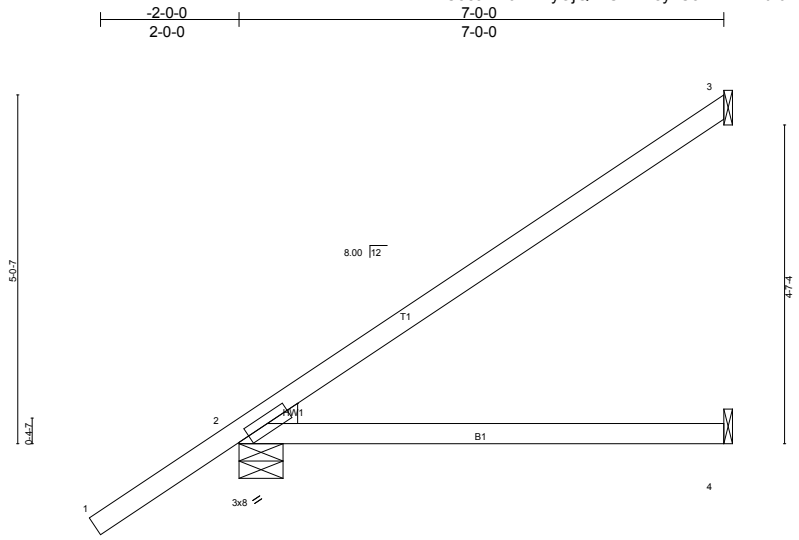


Plate Offsets (X,Y): [2:0-2-0,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.77	Vert(LL) -0.07 4-7 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.52	Vert(TL) -0.12 4-7 >689 180	
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: 27 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-4-8 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.

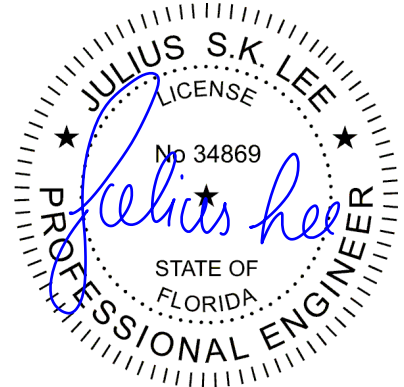
**REACTIONS** (lb/size) 3=114/Mechanical, 2=321/0-7-10 (min. 0-1-8), 4=31/Mechanical  
 Max Horz 2=249(LC 12)  
 Max Uplift 3=-140(LC 12), 2=-125(LC 12)  
 Max Grav 3=170(LC 21), 2=385(LC 2), 4=80(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1439/473  
 BOT CHORD 2-4=-1462/2809

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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) 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 140 lb uplift at joint 3 and 125 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 SP, 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F01	Truss Type FLOOR TRUSS	Qty 2	Ply 1	Job Reference (optional) 6252453
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:42 2013 Page 1  
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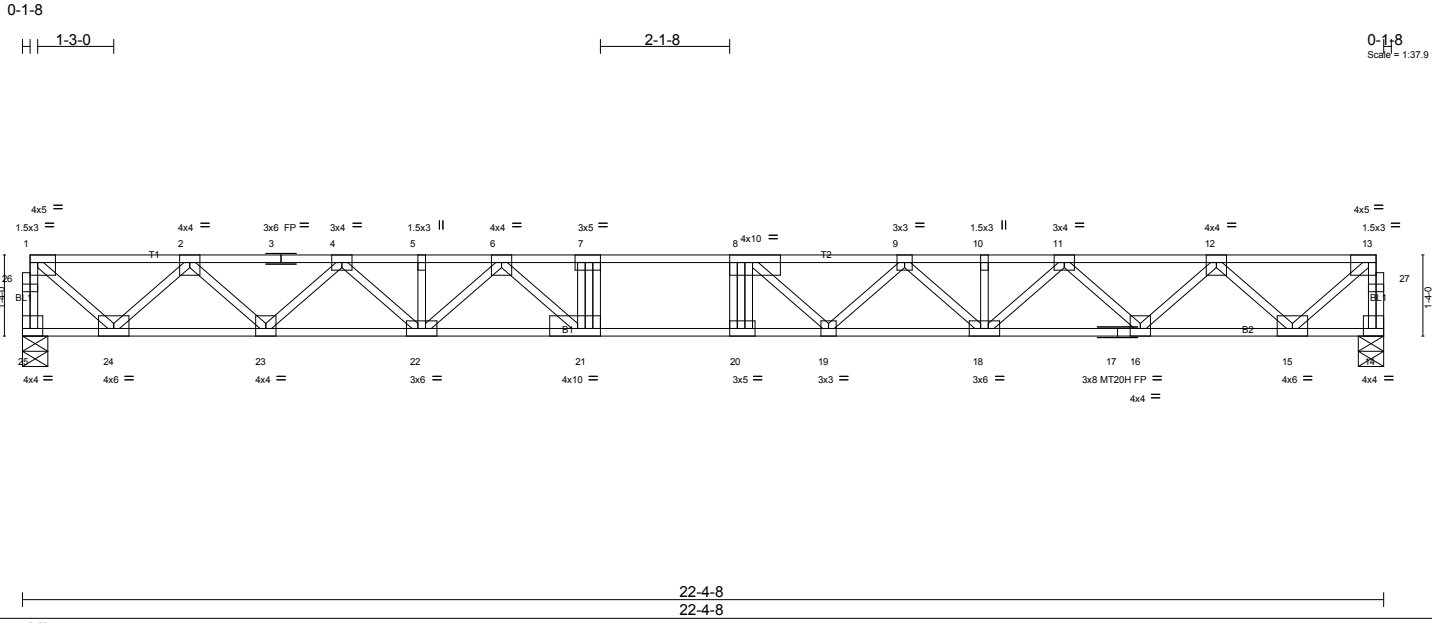


Plate Offsets (X,Y): [1:Edge,0-1-8], [7:0-2-0,Edge], [8:0-4-8,Edge], [13:0-1-8,Edge], [14:Edge,0-1-8], [20:0-1-8,Edge], [21:0-4-8,Edge], [25:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 60.0	1-4-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.80	Vert(LL) -0.48 20 >550 360	MT20H	187/143
BCLL 0.0	Lumber Increase 1.00	WB 0.75	Vert(TL) -0.66 20 >401 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.10 14 n/a n/a		
	Code FBC2010/TPI2007			Weight: 122 lb	FT = 11%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SYP M 31(flat) \*Except\*  
 T1: 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SYP M 31(flat) \*Except\*  
 B2: 2x4 SYP No.1(flat)  
 WEBS 2x4 SP No.3(flat)

**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.

**REACTIONS** (lb/size) 25=1100/0-5-0 (min. 0-1-8), 14=1100/0-5-0 (min. 0-1-8)

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

TOP CHORD 25-26=-1095/0, 1-26=-1094/0, 14-27=-1096/0, 13-27=-1095/0, 1-2=-1141/0, 2-3=-2900/0, 3-4=-2900/0, 4-5=-4167/0, 5-6=-4167/0, 6-7=-4992/0, 7-8=-5003/0, 8-9=-4843/0, 9-10=-4162/0, 10-11=-4162/0, 11-12=-2899/0, 12-13=-1142/0

BOT CHORD 23-24=0/2163, 22-23=0/3613, 21-22=0/4601, 20-21=0/5003, 19-20=0/5006, 18-19=0/4639, 17-18=0/3617, 16-17=0/3617, 15-16=0/2162

WEBS 1-24=0/1474, 2-24=-1422/0, 2-23=0/1025, 4-23=-992/0, 4-22=0/753, 6-22=-589/0, 6-21=-47/884, 7-21=-393/0, 13-15=0/1475, 12-15=-1419/0, 12-16=0/1025, 11-16=-998/0, 11-18=0/741, 9-18=-647/0, 9-19=0/493, 8-19=-635/219

**NOTES** (6-8)

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 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.
- Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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, D58-89 and BCS11 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 425247	Truss F02	Truss Type FLOOR TRUSS	Qty 7	Ply 1	Job Reference (optional) 6252454
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:43 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-GcWGihL?ZPhPtjXy1POvf57yJoCCm6iBkbgL0\_zzPqU

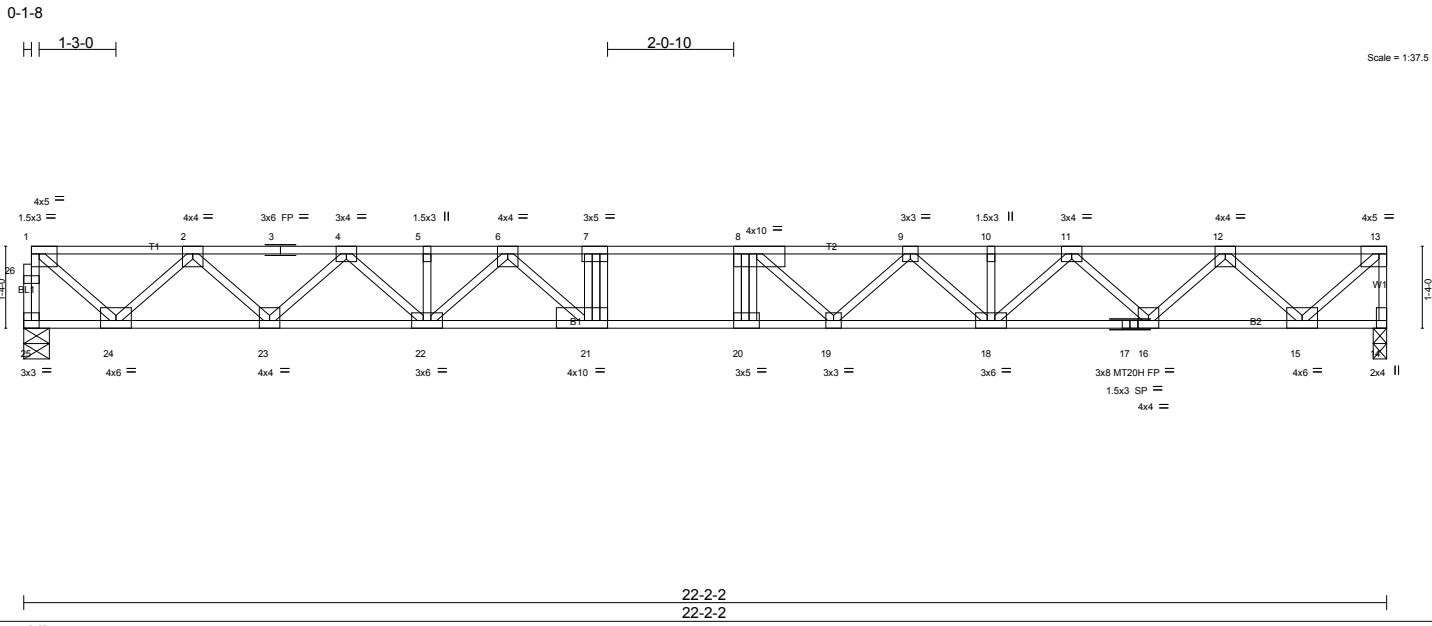


Plate Offsets (X,Y): [1:Edge,0-1-8], [7:0-2-0,Edge], [8:0-4-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [20:0-1-8,Edge], [21:0-4-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 1-4-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 60.0	Plates Increase 1.00	TC 0.92	Vert(LL) -0.50 20 >533 360	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.98	Vert(TL) -0.68 20 >388 240	MT20H	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.75	Horz(TL) 0.10 14 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 120 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat) *Except* T1: 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SYP M 31(flat) *Except* B2: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 16-18.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 25=1094/0-5-0 (min. 0-1-8), 14=1099/0-2-10 (min. 0-1-8)

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

TOP CHORD 25-26=-1088/0, 1-26=-1087/0, 13-14=-1094/0, 1-2=-1133/0, 2-3=-2879/0, 3-4=-2879/0, 4-5=-4130/0, 5-6=-4130/0, 6-7=-4935/0, 7-8=-4945/0, 8-9=-4783/0, 9-10=-4102/0, 10-11=-4102/0, 11-12=-2841/0, 12-13=-1084/0

BOT CHORD 23-24=0/2149, 22-23=0/3585, 21-22=0/4560, 20-21=0/4945, 19-20=0/4947, 18-19=0/4578, 17-18=0/3558, 16-17=0/3558, 15-16=0/2104

WEBS 1-24=0/1464, 2-24=-1412/0, 2-23=0/1016, 4-23=-982/0, 4-22=0/742, 6-22=-584/0, 6-21=-53/855, 7-21=-367/0, 13-15=0/1473, 12-15=-1419/0, 12-16=0/1026, 11-16=-997/0, 11-18=0/739, 9-18=-647/0, 9-19=0/484, 8-19=-632/218

- NOTES** (8-10)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
  - 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) CAUTION, Do not erect truss backwards.
  - 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 SP, 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 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 425247	Truss F02A	Truss Type FLOOR TRUSS	Qty 3	Ply 1	Job Reference (optional) 16252455
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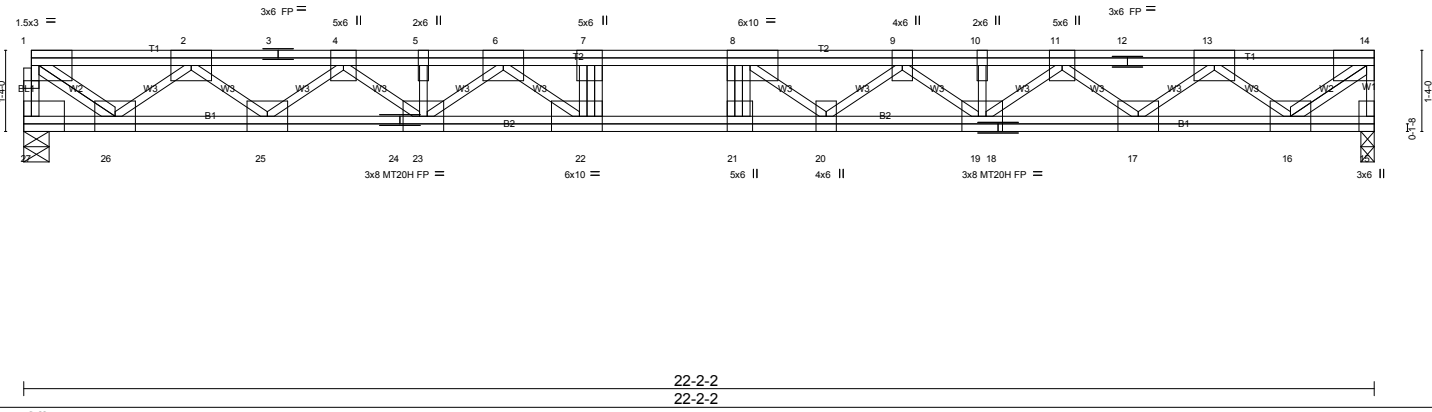
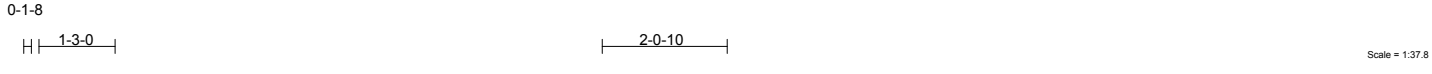


Plate Offsets (X,Y): [1:0-1-8,0-0-8], [7:0-3-0,Edge], [8:0-4-8,Edge], [14:0-1-8,Edge], [21:0-3-0,Edge], [22:0-4-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 60.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20 244/190	
TCDL 10.0	Plates Increase 1.00	BC 0.84	Vert(LL) -0.52 21 >509 360	MT20H 187/143	
BCLL 0.0	Lumber Increase 1.00	WB 0.82	Vert(TL) -0.71 21 >371 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.09 15 n/a n/a		
	Code FBC2010/TPI2007				Weight: 183 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals.
BOT CHORD 2x4 SYP No.1(flat) *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 27=1649/0-5-0 (min. 0-1-8), 15=1649/0-2-10 (min. 0-1-8)

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

TOP CHORD 1-27=-1642/0, 14-15=-1640/0, 1-2=-1831/0, 2-3=-4778/0, 3-4=-4778/0, 4-5=-6851/0, 5-6=-6851/0, 6-7=-8187/0, 7-8=-8206/0, 8-9=-7940/0, 9-10=-6808/0, 10-11=-6808/0, 11-12=-4715/0, 12-13=-4715/0, 13-14=-1729/0

BOT CHORD 25-26=0/3575, 24-25=0/5949, 23-24=0/5949, 22-23=0/7581, 21-22=0/8206, 20-21=0/8211, 19-20=0/7599, 18-19=0/5906, 17-18=0/5906, 16-17=0/3497

WEBS 1-26=0/2351, 2-26=-2267/0, 2-25=0/1592, 4-25=-1550/0, 4-23=0/1169, 6-23=-945/0, 6-22=-83/1327, 7-22=-523/0, 14-16=0/2284, 13-16=-2297/0, 13-17=0/1611, 11-17=-1576/0, 11-19=0/1170, 9-19=-1025/0, 9-20=0/760, 8-20=-995/343, 8-21=-360/253

- NOTES** (9-11)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 6x8 MT20 unless otherwise indicated.
  - 4) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 8) CAUTION, Do not erect truss backwards.
  - 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 SP, 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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, D58-89 and BCS11 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 425247	Truss F03	Truss Type Floor Truss	Qty 4	Ply 1	Job Reference (optional)	16252456
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:45 2013 Page 1  
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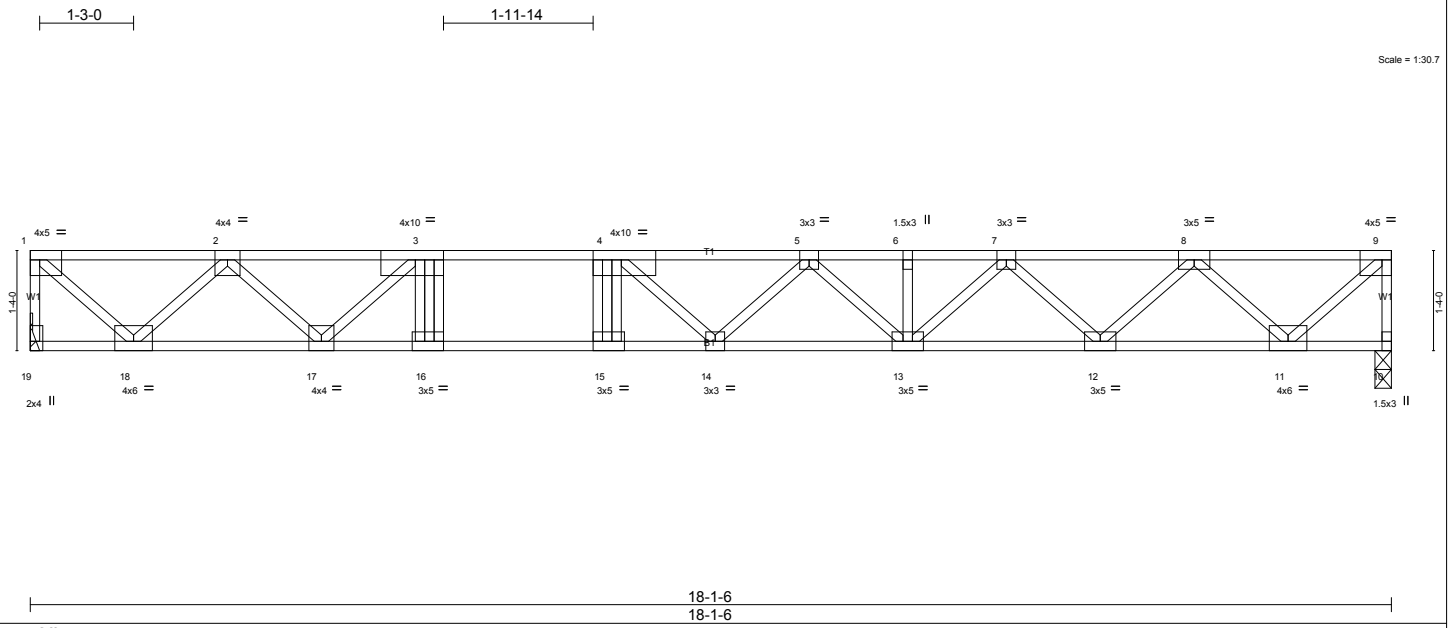


Plate Offsets (X,Y): [1:Edge,0-1-8], [3:0-4-8,Edge], [4:0-4-8,Edge], [9:0-1-8,Edge], [15:0-1-8,Edge], [16:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.99	Vert(LL) -0.40 14-15 >544 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.66	Vert(TL) -0.61 14-15 >354 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 10 n/a n/a		
	Code FBC2010/TPI2007			Weight: 98 lb	FT = 11%F, 11%E

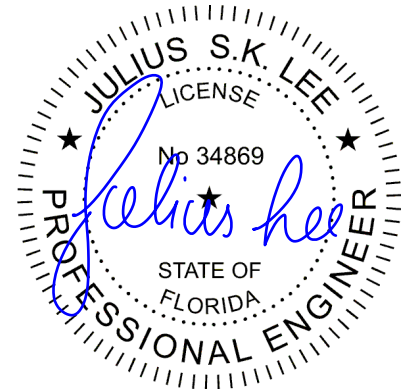
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 19=990/Mechanical, 10=990/0-2-10 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-19=-993/0, 9-10=-982/0, 1-2=-955/0, 2-3=-2435/0, 3-4=-3349/0, 4-5=-3644/0, 5-6=-3345/0, 6-7=-3345/0, 7-8=-2438/0, 8-9=-955/0  
BOT CHORD 17-18=0/1810, 16-17=0/3334, 15-16=0/3349, 14-15=0/3362, 13-14=0/3676, 12-13=0/2993, 11-12=0/1848  
WEBS 9-11=0/1298, 8-11=-1242/0, 8-12=0/820, 7-12=-773/0, 7-13=0/478, 5-13=-451/0, 4-14=-158/552, 4-15=-424/0, 1-18=0/1298, 2-18=-1190/0, 2-17=0/869, 3-17=-1235/0, 3-16=0/461

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F07	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16252457
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:46 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmzByxC31-gBCPwjNtsK3\_kBFXjXcHklbc?OezalDQZv?dJzzPqR

0-1-8



Scale = 1:18.1

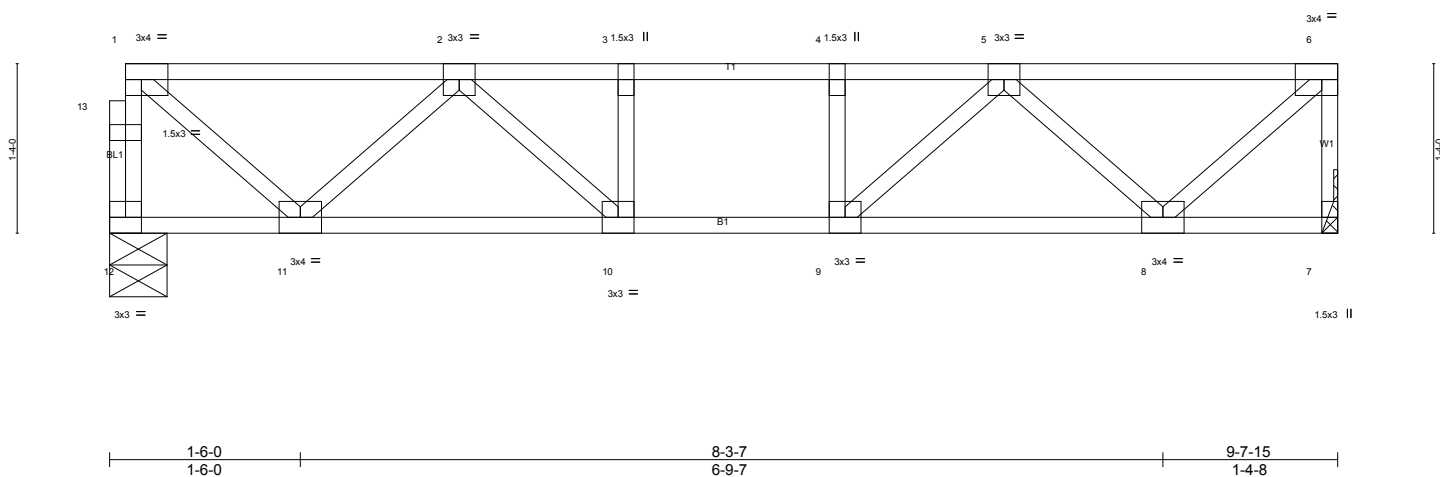


Plate Offsets (X,Y): [6-0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.40	Vert(LL) -0.04 10-11 >999 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.36	Vert(TL) -0.05 10-11 >999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.31	Horz(TL) 0.01 7 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 51 lb FT = 11%F, 11%E

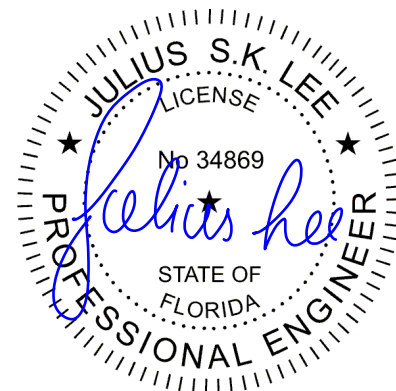
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 12=515/0-5-7 (min. 0-1-8), 7=521/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 12-13=511/0, 1-13=510/0, 6-7=516/0, 1-2=466/0, 2-3=999/0, 3-4=999/0, 4-5=999/0, 5-6=446/0  
BOT CHORD 10-11=0/860, 9-10=0/999, 8-9=0/848  
WEBS 6-8=0/606, 1-11=0/597, 5-8=560/0, 2-11=548/0, 5-9=0/334, 2-10=0/323

- NOTES** (6-9)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.
  - 6) 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.
  - 7) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 9) Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 425247	Truss F08	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional) 6252458
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:47 2013 Page 1  
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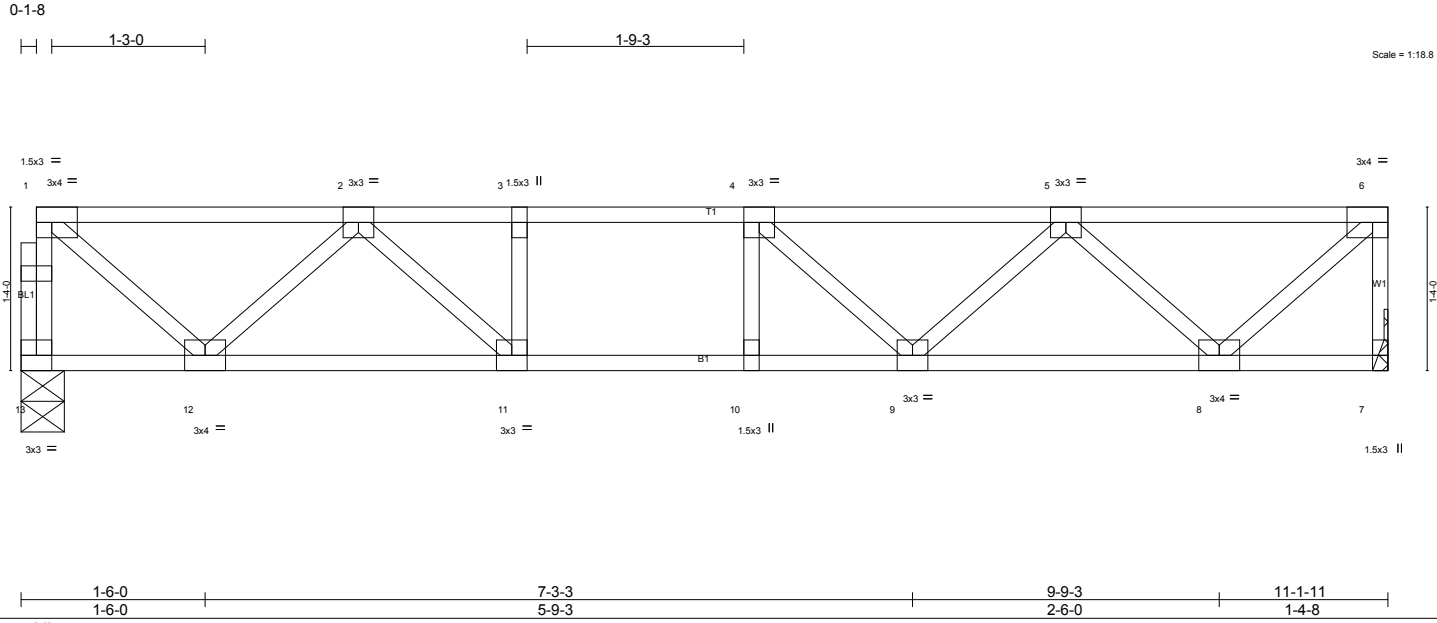


Plate Offsets (X,Y): [6:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.52	Vert(LL) -0.09 9-10 >999 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.78	Vert(TL) -0.12 9-10 >999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.37	Horz(TL) 0.02 7 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 58 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 13=596/0-4-4 (min. 0-1-8), 7=602/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 13-14=-584/0, 1-14=-583/0, 6-7=-595/0, 1-2=-546/0, 2-3=-1328/0, 3-4=-1328/0, 4-5=-1214/0, 5-6=-540/0  
 BOT CHORD 11-12=0/1041, 10-11=0/1328, 9-10=0/1328, 8-9=0/1039  
 WEBS 6-8=0/734, 1-12=0/701, 5-8=-694/0, 2-12=-689/0, 5-9=0/279, 2-11=0/510, 4-9=-277/0

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job 425247	Truss F09	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional) 6252459
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:47 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-9Nm83OVdeBrMLqkGFTrxli7PaLi?BnfDeY9lzzPqQ

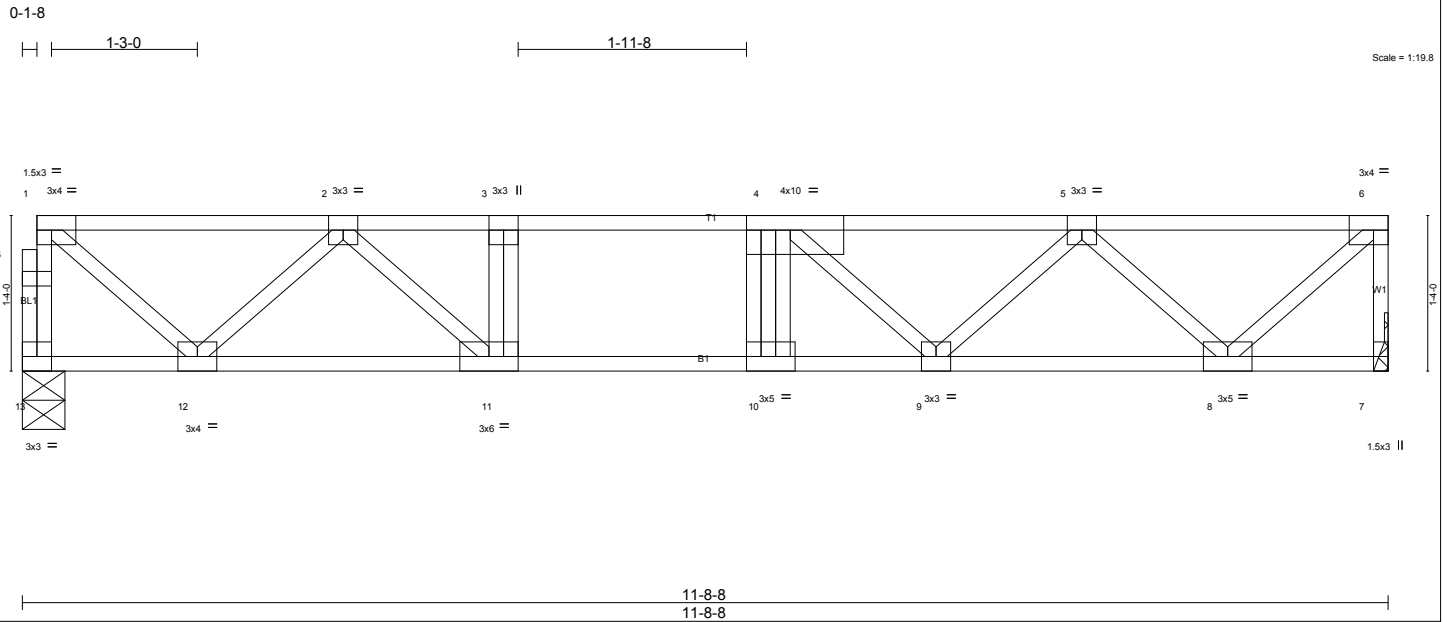


Plate Offsets (X,Y): [4:0-4-8,Edge], [6:0-1-8,Edge], [10:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.90	Vert(LL) -0.12 9-10 >999 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.40	Vert(TL) -0.17 9-10 >813 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 64 lb	FT = 11%F, 11%E

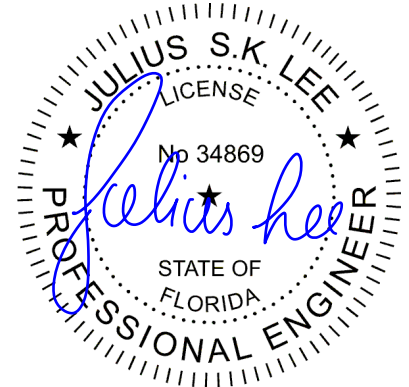
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 13=627/0-4-6 (min. 0-1-8), 7=634/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 13-14=613/0, 1-14=613/0, 6-7=626/0, 1-2=578/0, 2-3=1461/0, 3-4=1461/0, 4-5=1312/0, 5-6=574/0  
 BOT CHORD 11-12=0/1106, 10-11=0/1461, 9-10=0/1464, 8-9=0/1107  
 WEBS 1-12=0/742, 2-12=735/0, 2-11=0/594, 3-11=263/0, 6-8=0/780, 5-8=741/0, 5-9=0/317, 4-9=330/0

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F10	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16252460
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:48 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yx31-dZK9LPP7OyJi\_UPwqy\_4M9qt7pxuRSYwutO6hCzzPg

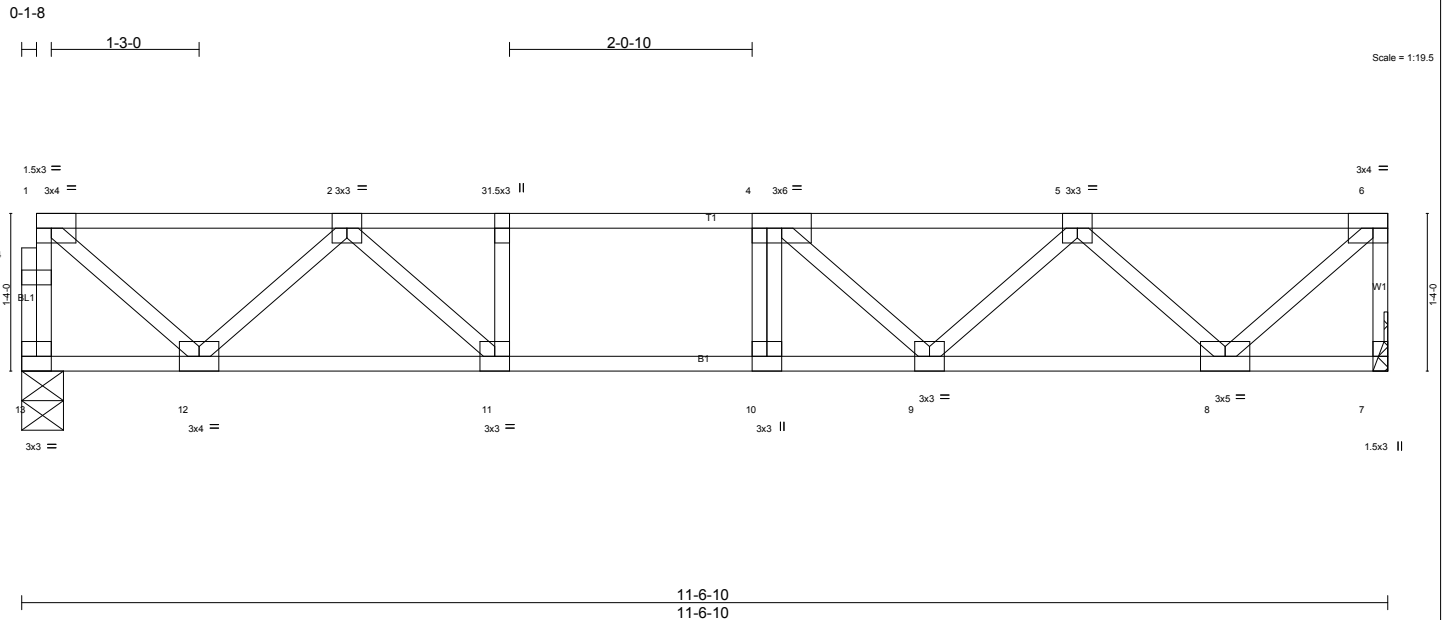


Plate Offsets (X,Y): [6:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.88	Vert(LL) -0.11 9-10 >999 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.39	Vert(TL) -0.16 9-10 >847 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 61 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 13=619/0-4-4 (min. 0-1-8), 7=625/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 13-14=605/0, 1-14=604/0, 6-7=617/0, 1-2=568/0, 2-3=-1422/0, 3-4=-1285/0, 5-6=-565/0  
 BOT CHORD 11-12=0/1089, 10-11=0/1422, 9-10=0/1422, 8-9=0/1089  
 WEBS 1-12=0/729, 2-12=-725/0, 2-11=0/577, 3-11=-262/0, 6-8=0/767, 5-8=-729/0, 5-9=0/306, 4-9=-314/0

- NOTES** (6-9)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.
  - 6) 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.
  - 7) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 9) Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 425247	Truss F11	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional) 6252461
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:48 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-5muYZIPI8FRZbe\_6OgVJvMN5RCNEAwV36X7fEzzPqO

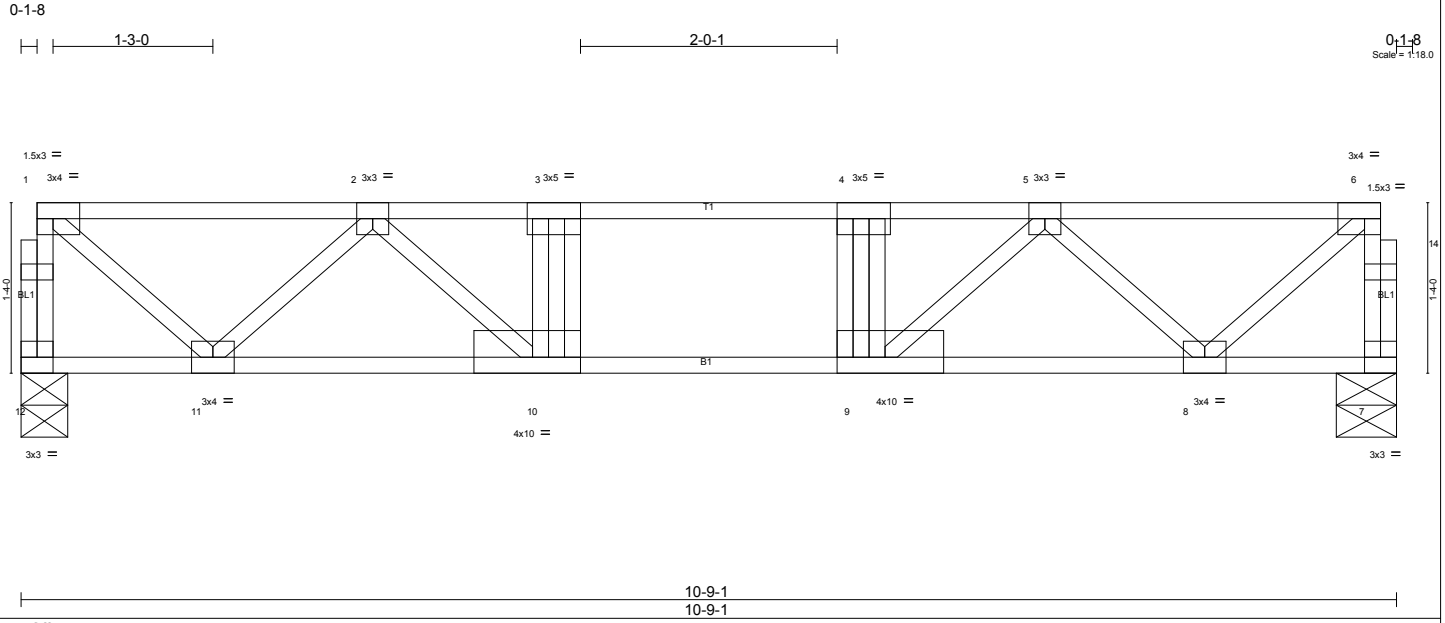


Plate Offsets (X,Y): [3:0-2-0,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [9:0-4-8,Edge], [10:0-4-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.49	Vert(LL) -0.07 10-11 >999 360	Weight: 62 lb FT = 11%F, 11%E	
BCLL 0.0	Lumber Increase 1.00	WB 0.34	Vert(TL) -0.09 10-11 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 7 n/a n/a		
	Code FBC2010/TPI2007				

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 12=572/0-4-6 (min. 0-1-8), 7=572/0-5-10 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 12-13=-567/0, 1-13=-567/0, 7-14=-567/0, 6-14=-567/0, 1-2=-528/0, 2-3=-1211/0, 3-4=-1218/0, 4-5=-1211/0, 5-6=-528/0  
 BOT CHORD 10-11=0/980, 9-10=0/1218, 8-9=0/980  
 WEBS 1-11=0/678, 2-11=-629/0, 2-10=0/445, 6-8=0/678, 5-8=-629/0, 5-9=0/445

- NOTES** (5-7)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) 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.
  - 6) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 7) 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

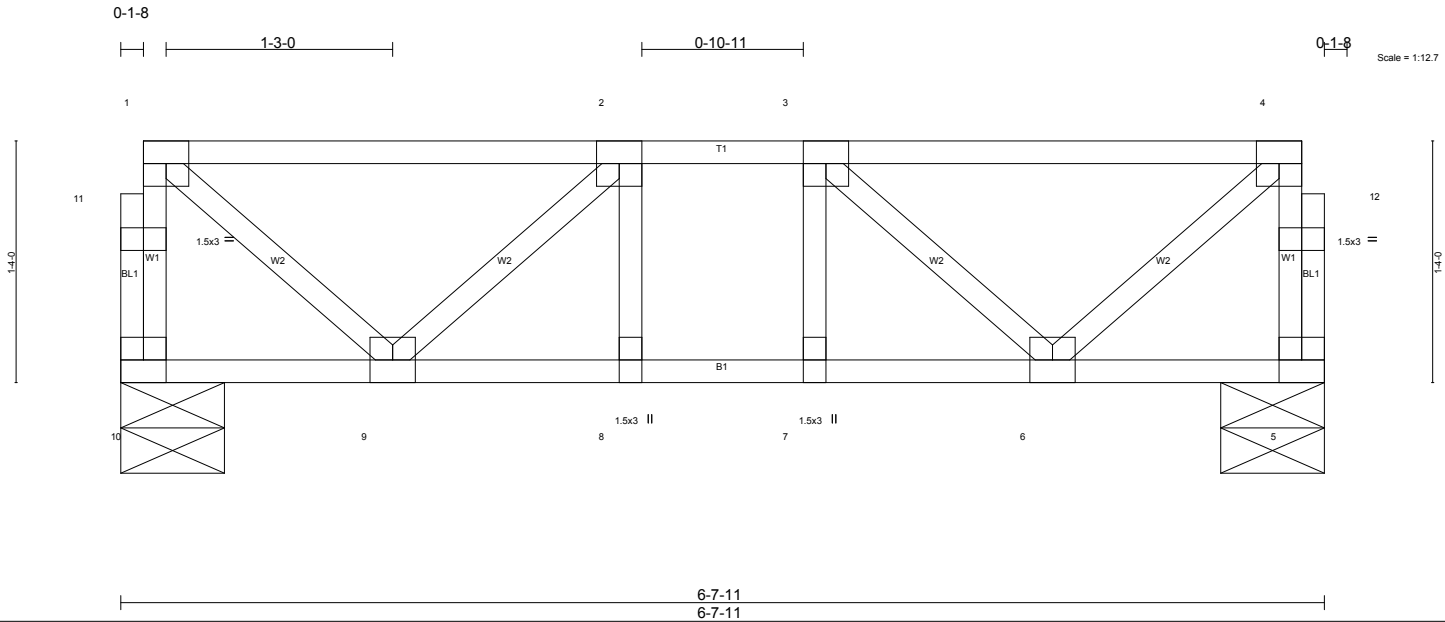


January 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job 425247	Truss F12	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16252462
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:49 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.46 BC 0.31 WB 0.17 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.02 8-9 >999 360 Vert(TL) -0.02 8-9 >999 240 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> GRIP MT20 244/190 Weight: 38 lb FT = 11%F, 11%E
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**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**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.

**REACTIONS** (lb/size) 10=345/0-6-14 (min. 0-1-8), 5=345/0-6-14 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 10-11=-340/0, 1-11=-339/0, 5-12=-340/0, 4-12=-339/0, 1-2=-267/0, 2-3=-498/0, 3-4=-267/0  
 BOT CHORD 8-9=0/498, 7-8=0/498, 6-7=0/498  
 WEBS 1-9=0/339, 2-9=-314/0, 4-6=0/339, 3-6=-314/0

- NOTES** (6-8)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 425247	Truss F14	Truss Type Floor Truss	Qty 6	Ply 1	Job Reference (optional)	16252463
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:51 2013 Page 1  
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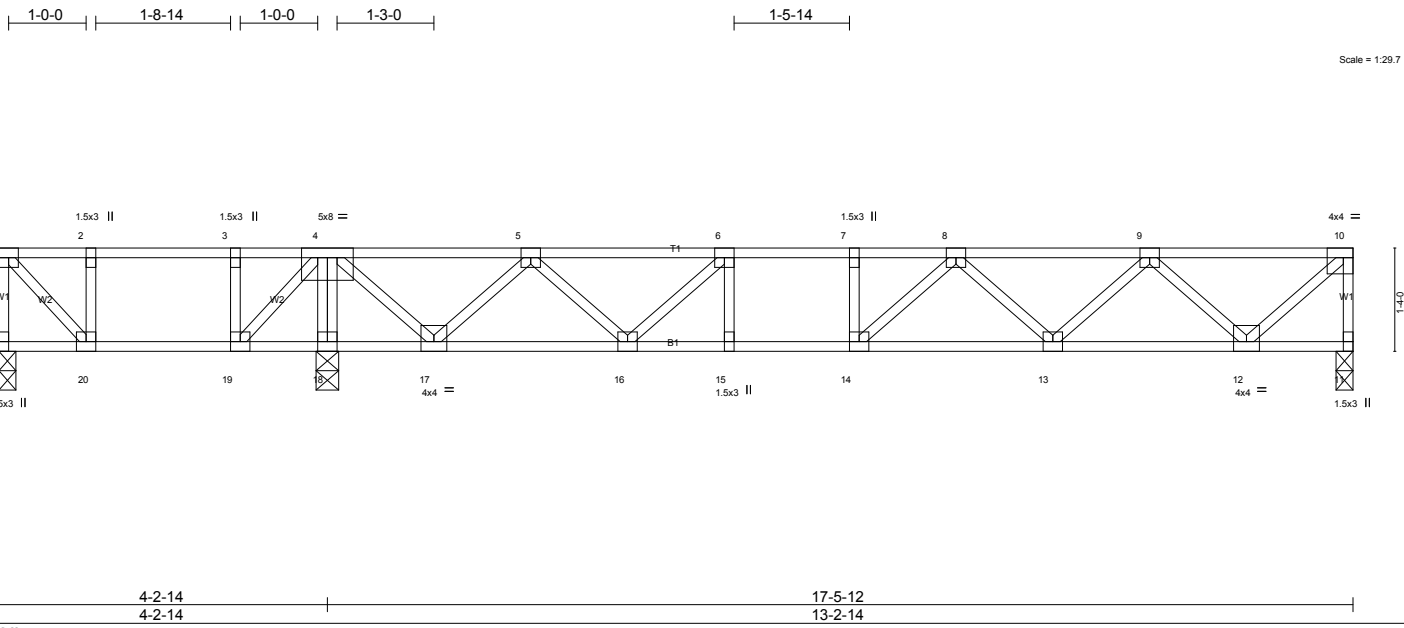


Plate Offsets (X,Y): [10:0-1-8.Edge]	
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0
TCLL 40.0	Plates Increase 1.00
TCDL 10.0	Lumber Increase 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code FBC2010/TPI2007
<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d
TC 0.50	Vert(LL) -0.11 13-14 >999 360
BC 0.83	Vert(TL) -0.17 13-14 >932 240
WB 0.48	Horz(TL) 0.03 11 n/a n/a
(Matrix)	
	<b>PLATES</b> <b>GRIP</b>
	MT20 244/190
	Weight: 91 lb FT = 11%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**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, Except: 6-0-0 oc bracing: 19-20,18-19,17-18.

**REACTIONS** (lb/size) 21=150/0-2-10 (min. 0-1-8), 11=699/0-2-10 (min. 0-1-8), 18=1060/0-3-8 (min. 0-1-8)  
 Max Uplift 21=-13(LC 4)  
 Max Grav 21=204(LC 3), 11=703(LC 7), 18=1061(LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 10-11=-696/0, 4-5=-500/0, 5-6=-1452/0, 6-7=-1817/0, 7-8=-1817/0, 8-9=-1542/0, 9-10=-645/0  
 BOT CHORD 18-19=-279/0, 17-18=-274/0, 16-17=0/1112, 15-16=0/1817, 14-15=0/1817, 13-14=0/1796, 12-13=0/1244  
 WEBS 4-18=-1085/0, 4-19=0/408, 4-17=0/942, 5-17=-858/0, 5-16=0/484, 6-16=-548/0, 10-12=0/877, 9-12=-834/0, 9-13=0/414, 8-13=-353/0, 8-14=-146/262

- NOTES** (9-11)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 21.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backboards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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



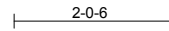
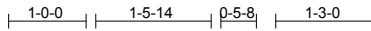
January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 425247	Truss F14A	Truss Type Floor Truss	Qty 5	Ply 1	Job Reference (optional) 6252464
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:52 2013 Page 1  
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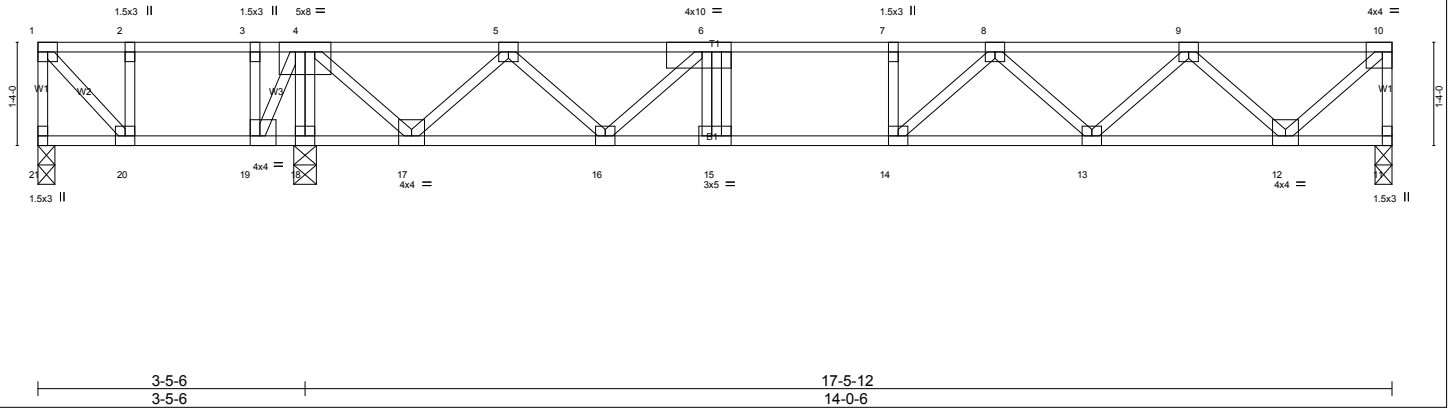


Plate Offsets (X,Y): [6:0-4-8,Edge], [10:0-1-8,Edge], [15:0-2-0,Edge], [19:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.66	Vert(LL) -0.16 13-14 >999 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.50	Vert(TL) -0.23 13-14 >724 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 11 n/a n/a		
	Code FBC2010/TPI2007			Weight: 94 lb	FT = 11%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SYP No.1(flat)  
WEBS 2x4 SP No.3(flat)

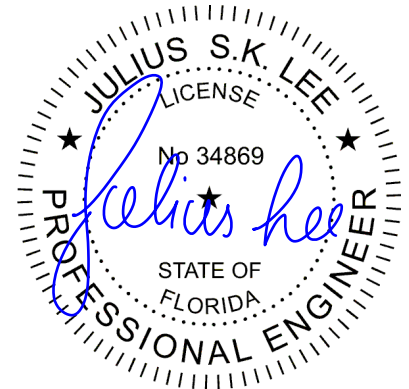
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
6-0-0 oc bracing: 19-20,18-19,17-18.

**REACTIONS** (lb/size) 21=107/0-2-10 (min. 0-1-8), 11=749/0-2-10 (min. 0-1-8), 18=1053/0-3-8 (min. 0-1-8)  
Max Uplift 21=40(LC 4)  
Max Grav 21=186(LC 10), 11=750(LC 7), 18=1053(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 10-11=-741/0, 4-5=-569/0, 5-6=-1601/0, 6-7=-2060/0, 7-8=-2060/0, 8-9=-1691/0, 9-10=-694/0  
BOT CHORD 18-19=-263/16, 17-18=-251/23, 16-17=0/1215, 15-16=0/2056, 14-15=0/2060, 13-14=0/1985,  
12-13=0/1344  
WEBS 4-18=-1119/0, 4-19=0/444, 10-12=0/944, 9-12=904/0, 9-13=0/483, 8-13=-408/0, 8-14=-65/344,  
4-17=0/983, 5-17=-902/0, 5-16=0/543, 6-16=-644/0

- NOTES** (9-11)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 21.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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



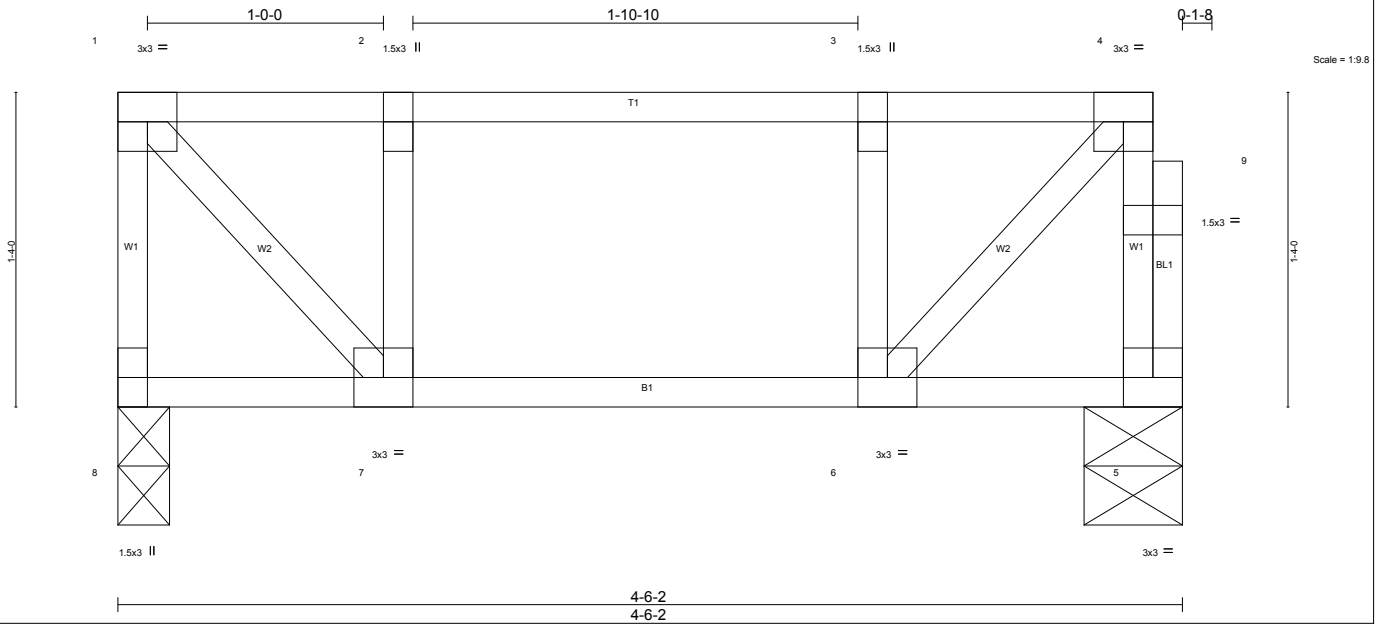
January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F15	Truss Type Floor Truss	Qty 2	Ply 1	Job Reference (optional)	6252465
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:52 2013 Page 1  
 ID: C5eaM?9VfkFyOjQZLSNmz8yxC31-VLZgBmSeRAp8S6jh3o20X??hOQV?NKPWpUMJqzzzPqL



<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.19 BC 0.11 WB 0.14 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 6 >999 360 Vert(TL) -0.01 6 >999 240 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 25 lb FT = 11%F, 11%E
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**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 8=238/0-2-10 (min. 0-1-8), 5=232/0-5-0 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 4-6=0/263, 1-7=0/280

- NOTES** (7-9)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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 2, 2013

Job 425247	Truss F16	Truss Type Floor Truss	Qty 10	Ply 1	Job Reference (optional) 6252466
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:53 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yx31-zX7206SGCUX?4GHtdVZF3CYmTqju6IPf185tNPzzPqK

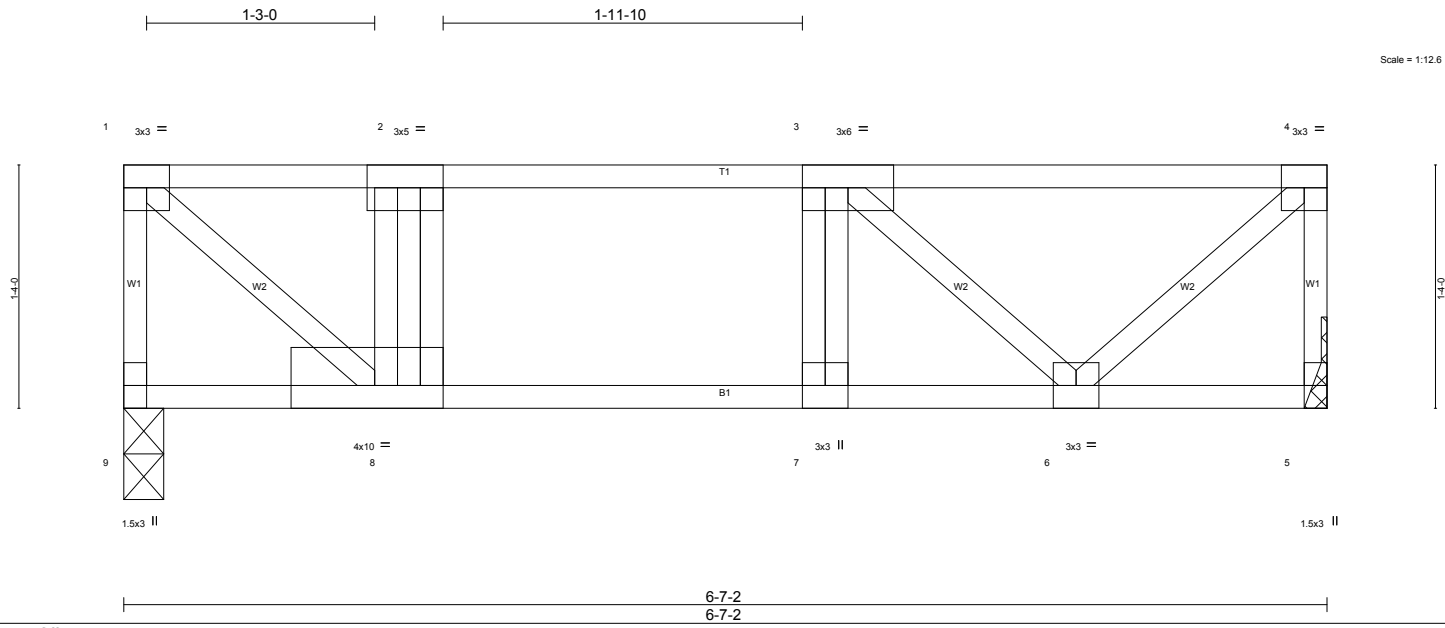


Plate Offsets (X,Y): [2-0-2-0,Edge], [8-0-4-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.58	Vert(LL) -0.06 7 >999 360	Weight: 38 lb FT = 11%F, 11%E	
BCLL 0.0	Lumber Increase 1.00	WB 0.29	Vert(TL) -0.08 7 >916 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 5 n/a n/a		
	Code FBC2010/TPI2007				

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 9=356/0-2-10 (min. 0-1-8), 5=356/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-9=-386/0, 4-5=-360/0, 1-2=-434/0, 2-3=-444/0, 3-4=-258/0  
 BOT CHORD 7-8=0/444, 6-7=0/444  
 WEBS 1-8=0/565, 2-8=-258/0, 4-6=0/351

- NOTES** (6-9)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
  - 4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) 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.
  - 7) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 9) Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

Job 425247	Truss F17	Truss Type Floor Truss	Qty 3	Ply 1	Job Reference (optional) 6252467
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:54 2013 Page 1  
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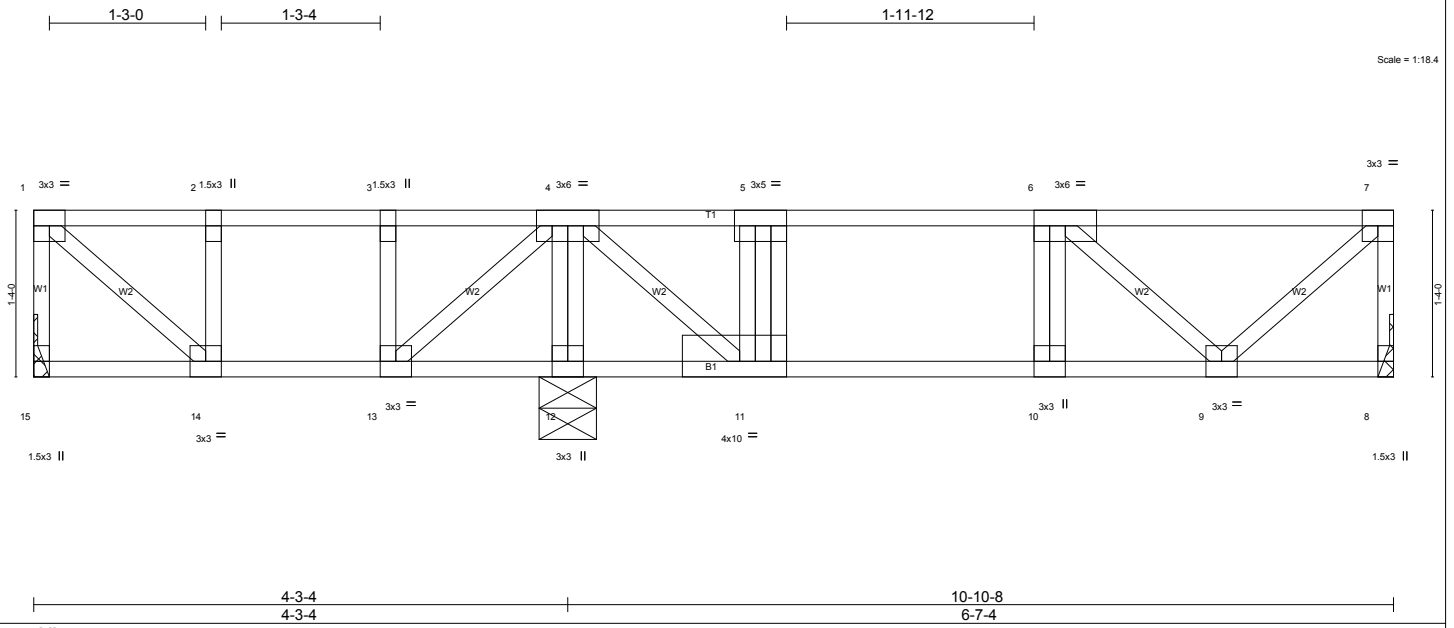


Plate Offsets (X,Y): [5:0-2-0,Edge], [11:0-4-8,Edge]								
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.49	Vert(LL)	-0.04	10	>999	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.41	Vert(TL)	-0.05	10	>999		
BCLL 0.0	Rep Stress Incr YES	WB 0.24	Horz(TL)	0.01	8	n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)						
							Weight: 62 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 15=285/Mechanical, 8=394/Mechanical, 12=503/0-5-8 (min. 0-1-8)  
Max Grav 15=300(LC 10), 8=400(LC 7), 12=543(LC 9)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-15=-312/0, 7-8=-399/0, 1-2=-312/0, 2-3=-312/0, 3-4=-312/0, 4-5=-573/0, 5-6=-581/0, 6-7=-308/0  
BOT CHORD 13-14=0/312, 10-11=0/581, 9-10=0/581  
WEBS 4-12=-530/0, 1-14=0/416, 4-11=0/466, 7-9=0/418, 6-9=-364/0

- NOTES** (6-10)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.
  - 6) 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.
  - 7) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 9) Use Simpson LUS46 to attach Truss to Carrying member @ JNT 8
  - 10) Use Simpson THA422 to attach Truss to Carrying member @ JNT 15

**LOAD CASE(S)** Standard

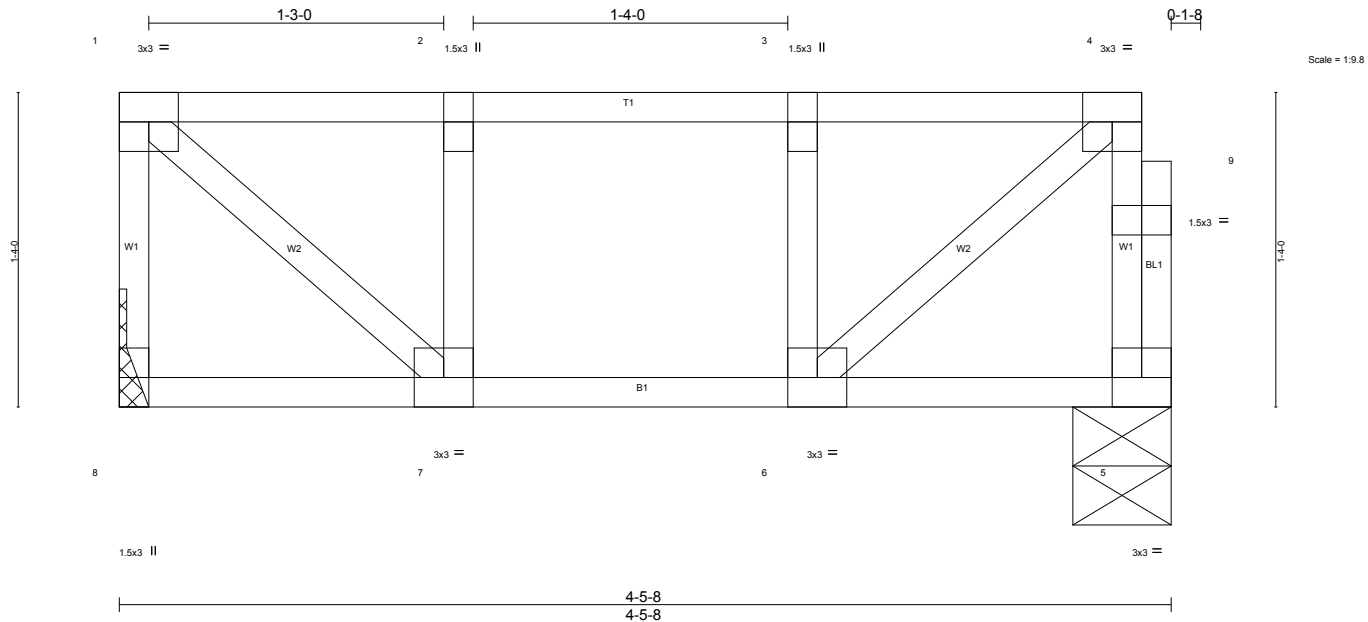


January 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b> 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 425247	Truss F18	Truss Type Floor Truss	Qty 4	Ply 1	Job Reference (optional) 6252468
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:54 2013 Page 1  
 ID:C5eaM?9VfkFyOjQLSNmz8yxC31-RjhRcSTuzo3riPs4BD5UcQ42yDAFrD0pGorQvrzzPq



<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.12 BC 0.12 WB 0.13 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 6 >999 360 Vert(TL) -0.01 6 >999 240 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 26 lb FT = 11%F, 11%E
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**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 8=235/Mechanical, 5=229/0-5-0 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 4-6=0/250, 1-7=0/265

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson THA422 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

Job 425247	Truss F19	Truss Type FLOOR TRUSS	Qty 7	Ply 1	6252469
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:55 2013 Page 1  
 ID:C5eaM?9VfkFyOJQZLSNmz8yxC31-wwFppoUWk5BijZRGkwj9dd3cdLhaZTyVSazRlzzPq

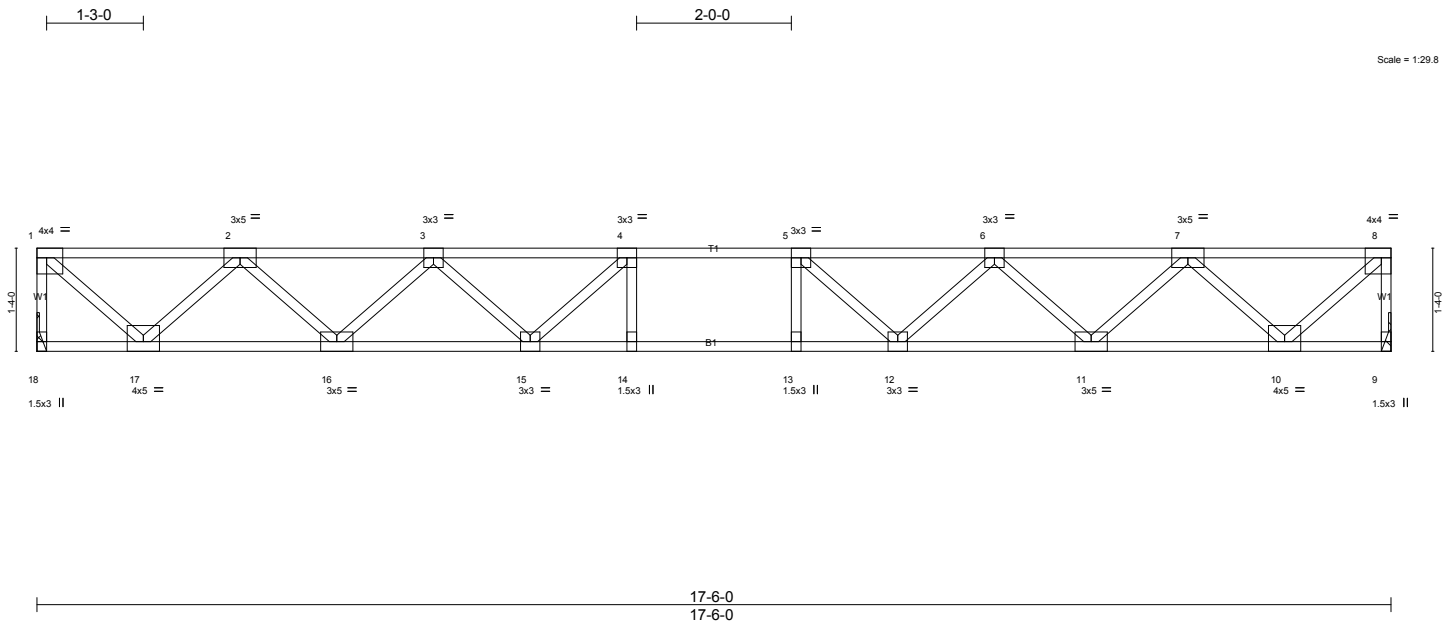


Plate Offsets (X,Y): [1:Edge,0-1-8], [8:0-1-8,Edge]

<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.71 BC 0.81 WB 0.63 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.21 13-14 >982 360 Vert(TL) -0.33 13-14 >625 240 Horz(TL) 0.06 9 n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 88 lb FT = 11%F, 11%E
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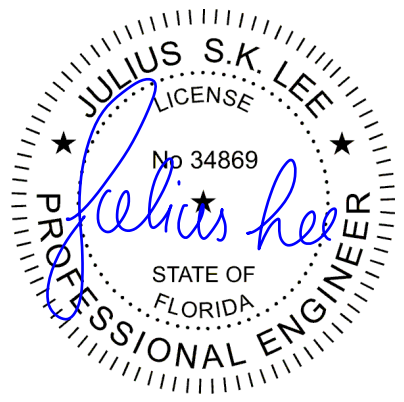
<b>LUMBER</b> TOP CHORD 2x4 SP No.2 (flat) BOT CHORD 2x4 SYP No.1 (flat) WEBS 2x4 SP No.3 (flat)	<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied or 5-10-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS** (lb/size) 18=956/Mechanical, 9=956/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-18=-949/0, 8-9=-949/0, 1-2=-918/0, 2-3=-2334/0, 3-4=-3142/0, 4-5=-3411/0, 5-6=-3142/0, 6-7=-2334/0, 7-8=-918/0  
 BOT CHORD 16-17=0/1773, 15-16=0/2867, 14-15=0/3411, 13-14=0/3411, 12-13=0/3411, 11-12=0/2867, 10-11=0/1773  
 WEBS 1-17=0/1248, 2-17=-1189/0, 2-16=0/780, 3-16=-741/0, 3-15=0/466, 4-15=-597/1, 8-10=0/1248, 7-10=-1189/0, 7-11=0/780, 6-11=-741/0, 6-12=0/466, 5-12=-597/1

**NOTES** (5-8)  
 1) Unbalanced floor live loads have been considered for this design.  
 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.  
 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
 5) 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.  
 6) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.  
 7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435  
 8) Use Simpson HHUS48 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

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

Job 425247	Truss F19B	Truss Type FLOOR	Qty 1	Ply 1	Job Reference (optional) 6252470
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:56 2013 Page 1  
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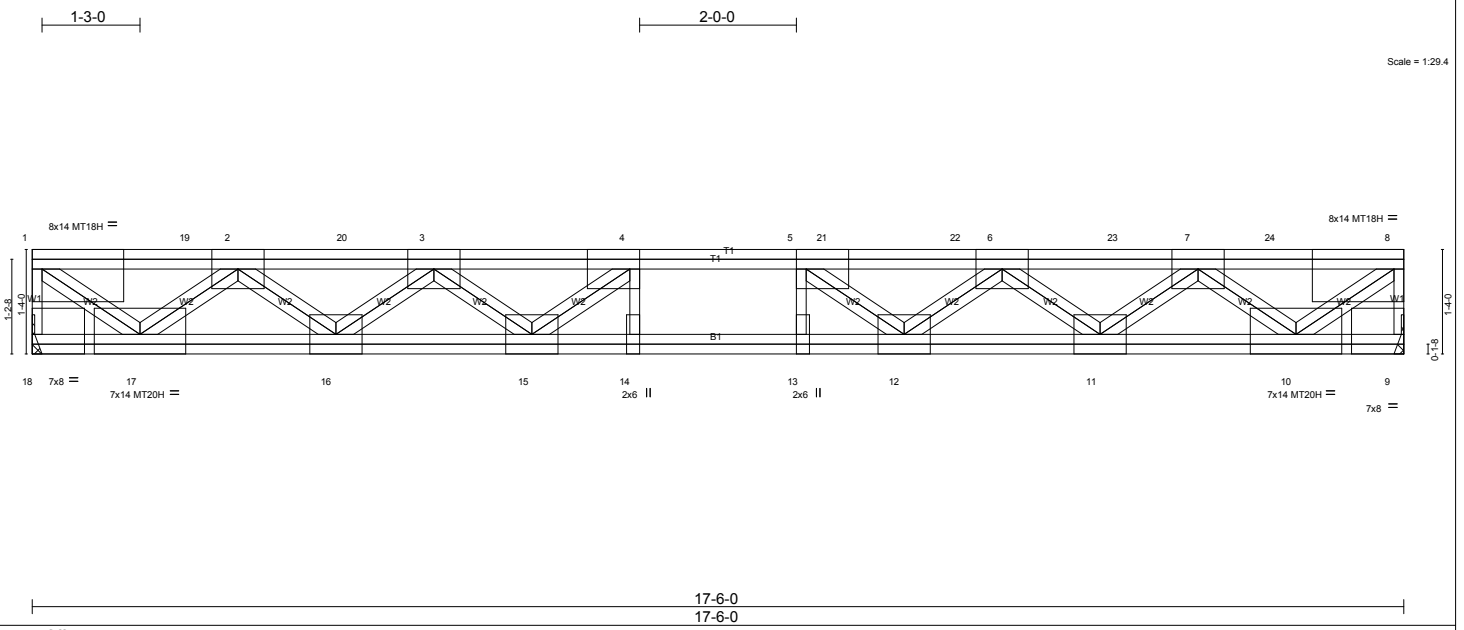


Plate Offsets (X,Y): [1:Edge,0-3-0], [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge], [9:Edge,0-3-0], [13:0-3-0-0-0-0], [14:0-3-0,Edge], [18:0-0-0-0-3-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	1-9-0	TC 0.83	in (loc) l/defl L/d	MT20 244/190	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.85	Vert(LL) -0.33 13 >635 360	MT20H 187/143	187/143
BCLL 0.0	Lumber Increase 1.00	WB 0.98	Vert(TL) -0.51 13 >406 240	MT18H 244/190	244/190
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.08 9 n/a n/a	Weight: 163 lb	FT = 11%F, 11%E
	Code FBC2010/TPI2007				

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 18=2609/Mechanical, 9=2722/Mechanical

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

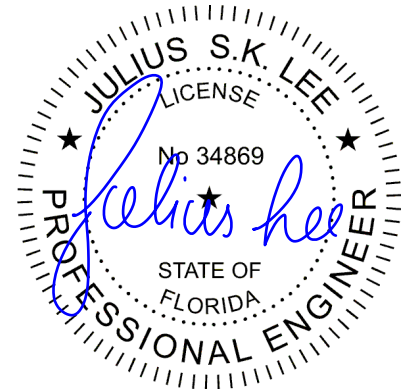
<b>TOP CHORD</b>	1-18=-2572/0, 8-9=-2688/0, 1-19=-2945/0, 2-19=-2945/0, 2-20=-7432/0, 3-20=-7432/0, 3-4=-9526/0, 4-5=-10238/0, 5-21=-9852/0, 21-22=-9852/0, 6-22=-9852/0, 6-23=-7549/0, 7-23=-7549/0, 7-24=-2975/0, 8-24=-2975/0
<b>BOT CHORD</b>	16-17=0/5770, 15-16=0/9041, 14-15=0/10238, 13-14=0/10238, 12-13=0/10238, 11-12=0/9274, 10-11=0/5814
<b>WEBS</b>	1-17=0/3819, 2-17=-3737/0, 2-16=0/2199, 3-16=-2130/0, 3-15=-235/1188, 4-15=-1823/530, 4-14=-313/765, 8-10=0/3857, 7-10=-3757/0, 7-11=0/2295, 6-11=-2282/0, 6-12=0/968, 5-12=-1250/495, 5-13=-739/346

**NOTES** (8-11)

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 6x8 MT20 unless otherwise indicated.
- All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- Provide metal plate or equivalent at bearing(s) 18, 9 to support reaction shown.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 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.
- Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
- Use Simpson HHUS48 to attach Truss to Carrying member

**LOAD CASE(S)** Standard

- Floor: Lumber Increase=1.00, Plate Increase=1.00
  - Uniform Loads (plf)
    - Vert: 1-8=-87, 9-18=-9
  - Concentrated Loads (lb)
    - Vert: 3=-522 19=-523 20=-523 21=-522 22=-523 23=-523 24=-523



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F20	Truss Type FLOOR TRUSS	Qty 4	Ply 1	Job Reference (optional) 6252471
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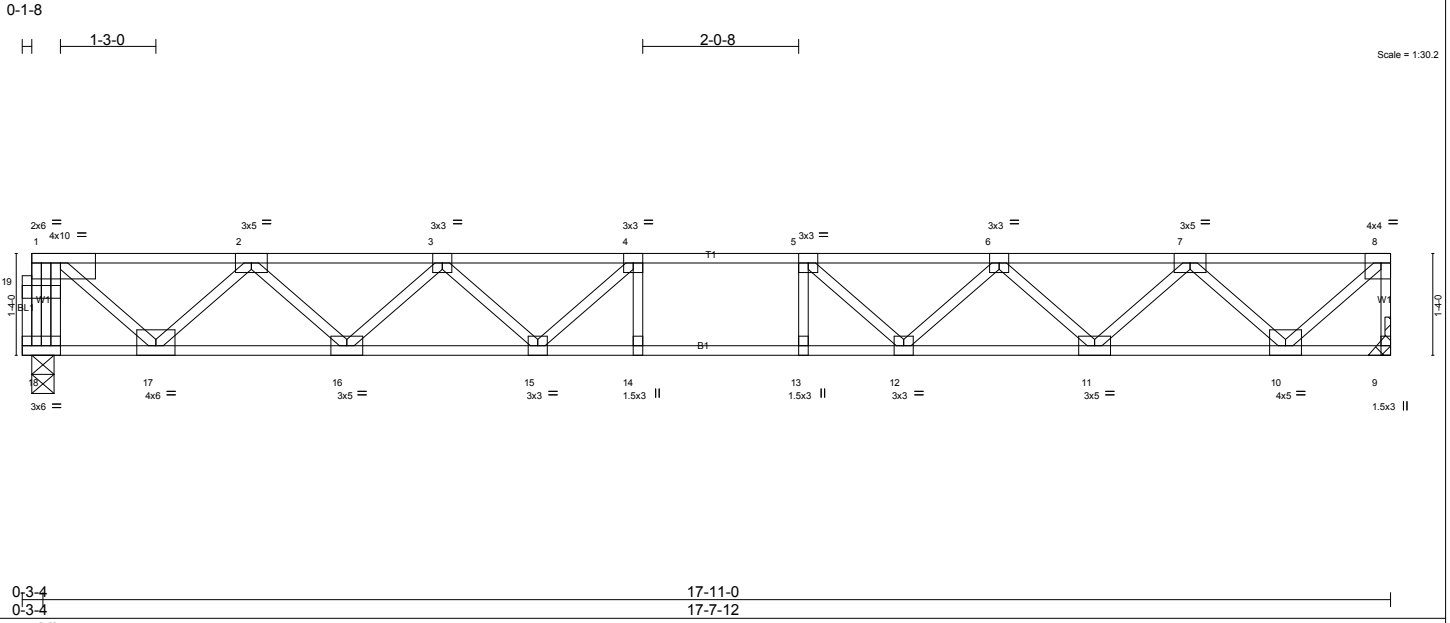


Plate Offsets (X,Y): [1:Edge,0-1-8], [8:0-1-8,Edge], [19:0-1-8,0-1-0]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.86	Vert(LL) -0.22 13-14 >941 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.67	Vert(TL) -0.35 13-14 >600 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 94 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.
BOT CHORD 2x4 SYP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 18=962/0-3-8 (min. 0-1-8), 9=968/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 18-19=-955/0, 1-19=-934/0, 8-9=-961/0, 1-2=-1055/0, 2-3=-2458/0, 3-4=-3248/0, 4-5=-3500/0, 5-6=-3207/0, 6-7=-2373/0, 7-8=-932/0  
BOT CHORD 16-17=0/1908, 15-16=0/2981, 14-15=0/3500, 13-14=0/3500, 12-13=0/3500, 11-12=0/2918, 10-11=0/1800  
WEBS 1-17=0/1314, 2-17=-1186/0, 2-16=0/764, 3-16=-728/0, 3-15=0/462, 4-15=-590/22, 8-10=0/1266, 7-10=-1208/0, 7-11=0/797, 6-11=-757/0, 6-12=0/484, 5-12=-628/0

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - Bearings are assumed to be: Joint 18 SYP No.2 .
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson HHUS48 to attach Truss to Carrying member

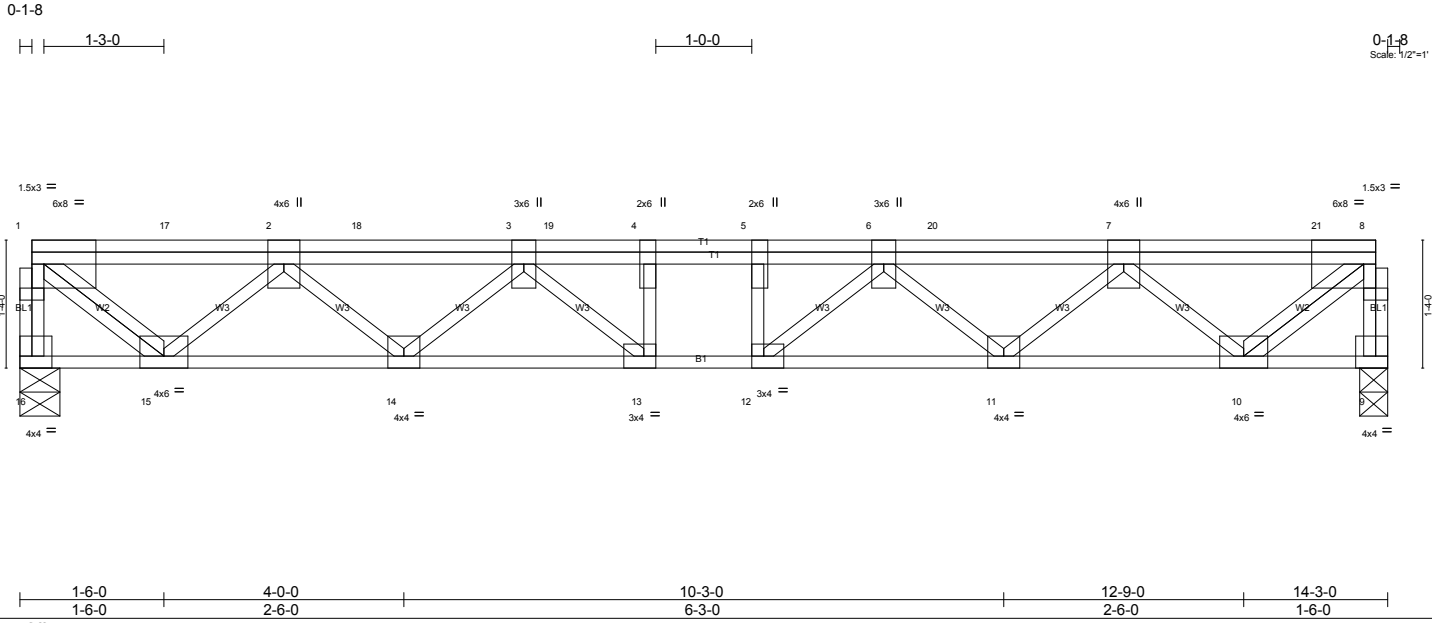
**LOAD CASE(S)** Standard



January 2, 2013

Job 425247	Truss F23	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional) 6252472
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:58 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-KUwxRpWP10aHA1ArQ39RmGFeYrRLnwfOBQpe2dzzPqF



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.56	Vert(LL) -0.13 11-12 >999 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.61	Vert(TL) -0.21 11-12 >809 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.05 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 99 lb	FT = 11%F, 11%E

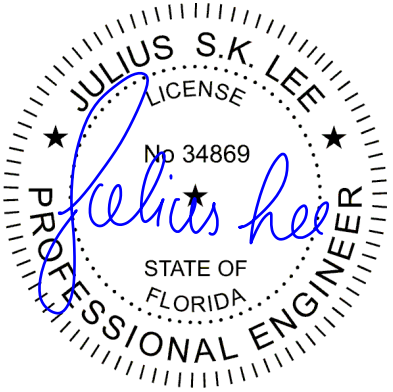
**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SYP M 31(flat)  
 WEBS 2x4 SP No.3(flat)

**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.

**REACTIONS** (lb/size) 16=1244/0-5-0 (min. 0-1-8), 9=1435/0-3-8 (min. 0-1-8)  
 Max Grav 16=1386(LC 3), 9=1617(LC 4)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-16=-1381/0, 8-9=-1610/0, 1-17=-1416/0, 2-17=-1413/0, 2-18=-3382/0, 3-18=-3382/0,  
 3-19=-4108/0, 4-19=-4108/0, 4-5=-4108/0, 5-6=-4108/0, 6-20=-3548/0, 7-20=-3548/0,  
 7-21=-1507/0, 8-21=-1510/0  
 BOT CHORD 14-15=0/2755, 13-14=0/3977, 12-13=0/4108, 11-12=0/4118, 10-11=0/2940  
 WEBS 8-10=0/1978, 1-15=0/1857, 7-10=-1909/0, 2-15=-1787/0, 7-11=0/875, 2-14=0/899, 6-11=-842/0,  
 3-14=-877/0, 6-12=-14/456, 3-13=0/643, 4-13=-368/0, 5-12=-270/0

**NOTES** (7-9)  
 1) Unbalanced floor live loads have been considered for this design.  
 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.  
 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 215 lb down at 1-7-8, 215 lb down at 3-7-8, 215 lb down at 5-7-8, 215 lb down at 7-7-8, 280 lb down at 9-7-8, and 280 lb down at 11-7-8, and 280 lb down at 13-7-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.  
 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).  
 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 SP, 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  
 1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 9-16=-10, 1-8=-100  
 Concentrated Loads (lb)  
 Vert: 7=-200(B) 5=-135(B) 17=-135(B) 18=-135(B) 19=-135(B) 20=-200(B) 21=-200(B)

January 2, 2013

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

Job 425247	Truss F24	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional) 6252473
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Builders FirstSource, Jacksonville, FL 32244

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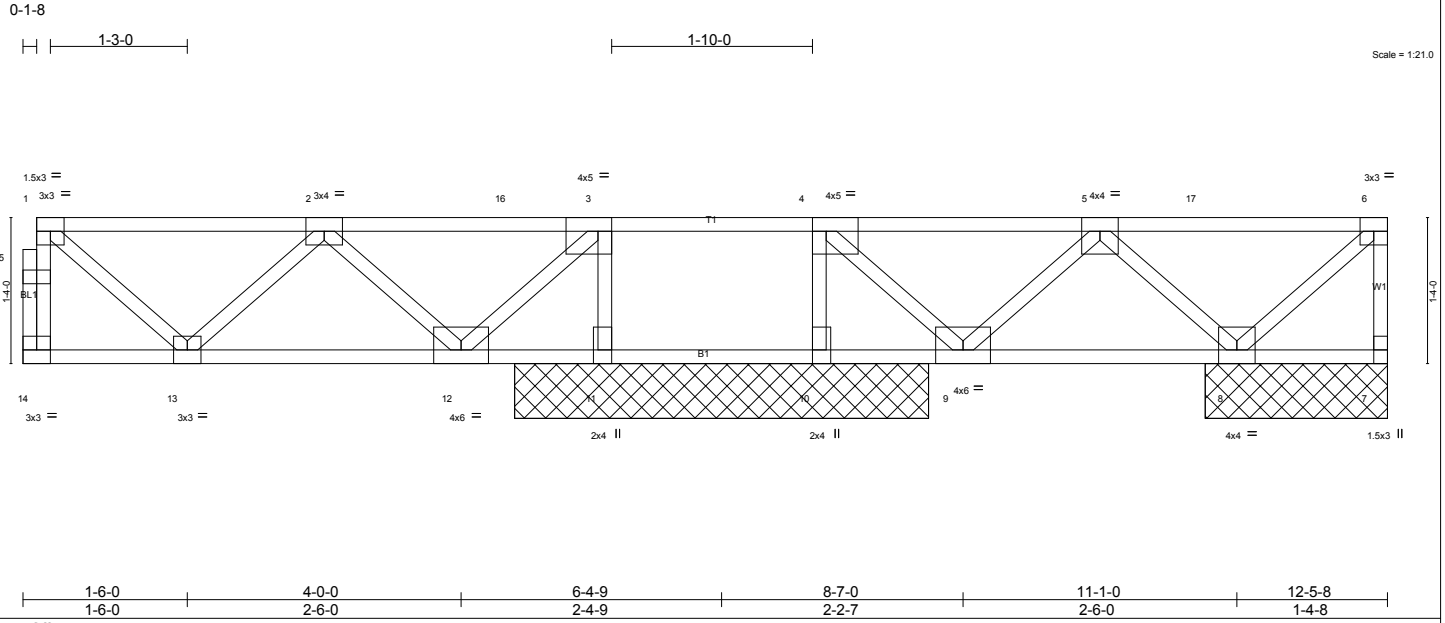


Plate Offsets (X,Y): [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,0-0-0], [11:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING</b> 1-4-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.86	Vert(LL) 0.01 10-11 >999 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.50	Vert(TL) 0.01 10-11 >999 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.74	Horz(TL) -0.02 7 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 64 lb FT = 11%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SYP No.1(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 7-8.

**REACTIONS** All bearings 1-7-15 except (jt=length) 11=3-9-6, 10=3-9-6.  
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 7=144(LC 6), 8=571(LC 3)  
Max Grav All reactions 250 lb or less at joint(s) 7 except 8=332(LC 13), 11=1385(LC 3), 10=1311(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=0/413, 2-16=0/1766, 3-16=0/1766, 3-4=0/2734, 4-5=0/1773  
BOT CHORD 12-13=-826/0, 11-12=-2734/0, 10-11=-2734/0, 9-10=-2734/0, 8-9=-897/27  
WEBS 6-8=-327/0, 1-13=-561/0, 5-8=-250/1037, 2-13=0/575, 5-9=-1374/0, 2-12=-1309/0, 4-9=0/1450, 3-12=0/1316, 3-11=-1321/0, 4-10=-1335/0

**NOTES** (7-9)  
1) Unbalanced floor live loads have been considered for this design.  
2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.  
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 7 and 571 lb uplift at joint 8.  
4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
6) CAUTION, Do not erect truss backwards.  
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 SP, 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  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 7-14=-7, 1-6=-177  
Concentrated Loads (lb)  
Vert: 1=200

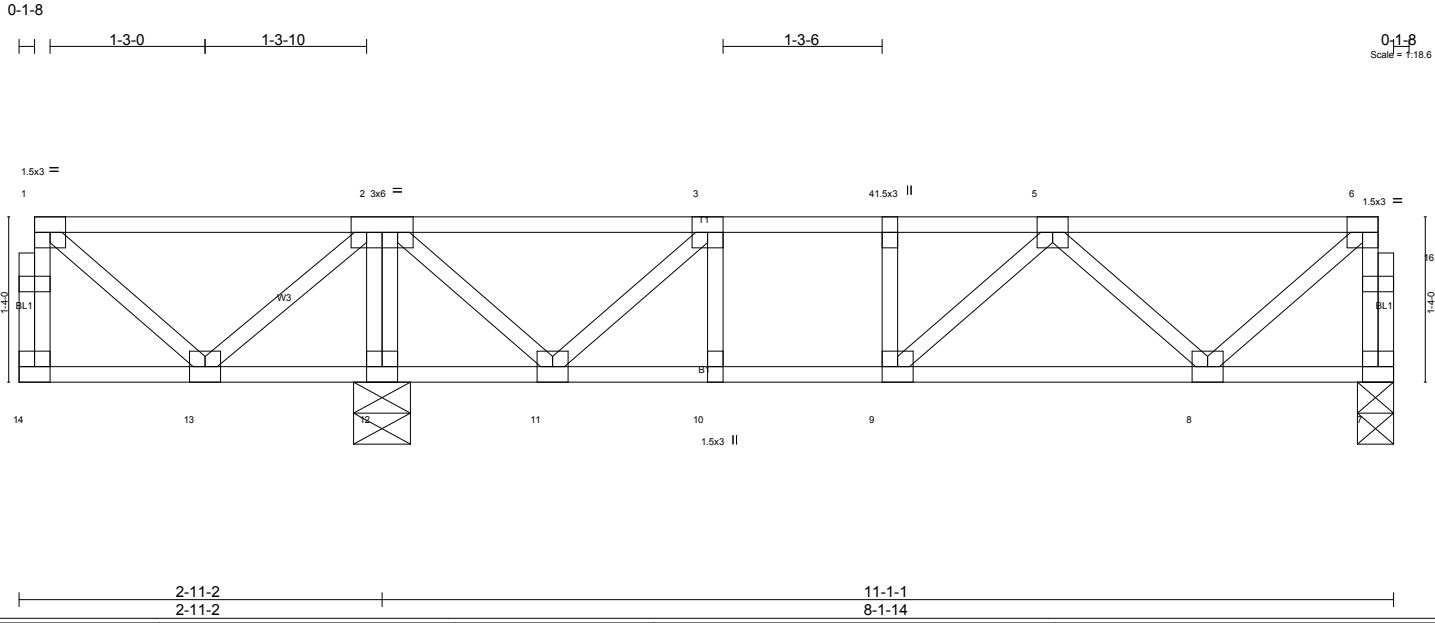
January 2, 2013

**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 BCS11 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 425247	Truss F25	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16252474
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:07:59 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-ohUKf9X1oKi8oBl1zmggJT0o3EmAWTrYQ4YBa3zzPqE



<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.48 BC 0.52 WB 0.23 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.05 8-9 >999 360 Vert(TL) -0.07 8-9 >999 240 Horz(TL) -0.00 7 n/a n/a	<b>PLATES</b> GRIP MT20 244/190 Weight: 62 lb FT = 11%F, 11%E
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**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**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.

**REACTIONS** (lb/size) 7=188/0-3-8 (min. 0-1-8), 12=799/0-5-8 (min. 0-1-8)  
 Max Uplift 7=-23(LC 3)  
 Max Grav 7=262(LC 4), 12=799(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 7-16=-263/17, 6-16=-263/17, 1-2=0/311, 2-3=-100/483, 3-4=-368/267, 4-5=-368/267  
 BOT CHORD 12-13=-649/0, 11-12=-650/0, 10-11=-267/368, 9-10=-267/368, 8-9=-105/399  
 WEBS 2-12=-763/0, 1-13=-423/0, 2-13=0/443, 2-11=0/441, 3-11=-518/0, 6-8=-41/287, 5-9=-273/58

**NOTES** (8-10)  
 1) Unbalanced floor live loads have been considered for this design.  
 2) All plates are 3x3 MT20 unless otherwise indicated.  
 3) Bearings are assumed to be: , Joint 7 SYP No.2 .  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 7.  
 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
 7) CAUTION, Do not erect truss backwards.  
 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 SP, 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  
 1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 7-14=-7, 1-6=-67  
 Concentrated Loads (lb)  
 Vert: 1=-200

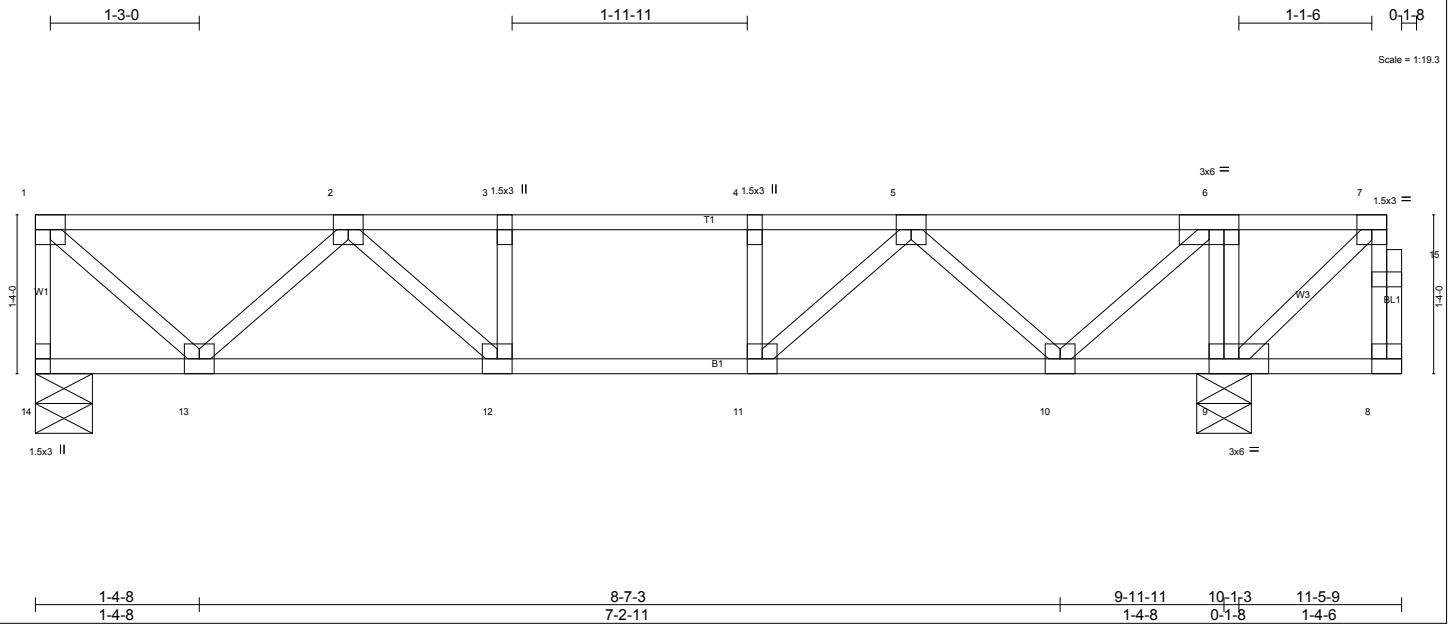


January 2, 2013

Job 425247	Truss F26	Truss Type Floor Truss	Qty 1	Ply 1	16252475
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Builders FirstSource, Jacksonville, FL 32244

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<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.43 BC 0.37 WB 0.23 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.04 12-13 >999 360 Vert(TL) -0.06 12-13 >999 240 Horz(TL) 0.01 9 n/a n/a	<b>PLATES</b> MT20 Weight: 62 lb	<b>GRIP</b> 244/190 FT = 11%F, 11%E
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**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

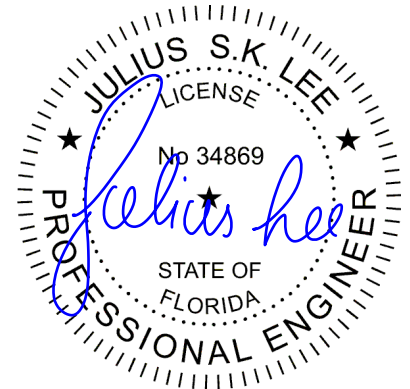
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size) 14=331/0-5-12 (min. 0-1-8), 9=692/0-5-8 (min. 0-1-8)  
Max Grav 14=354(LC 3), 9=692(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-14=-352/0, 1-2=-305/0, 2-3=-688/0, 3-4=-688/0, 4-5=-688/0, 5-6=-270/139, 6-7=0/252  
BOT CHORD 12-13=0/579, 11-12=0/688, 10-11=-37/547, 9-10=-252/0  
WEBS 6-9=-457/0, 1-13=0/415, 6-10=0/443, 2-13=-381/0, 5-10=-421/0, 5-11=0/345, 7-9=-344/0

- NOTES** (7-9)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - Bearings are assumed to be: Joint 14 SYP No.2.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 8-14=-7, 1-7=-67  
Concentrated Loads (lb)  
Vert: 7=-200



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F27	Truss Type Floor Truss	Qty 1	Ply 1	6252476
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:01 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yx31-k3c44rZHKxys1UvQ5Bj8Out8F2QU\_MmrtO1lfzzPgC

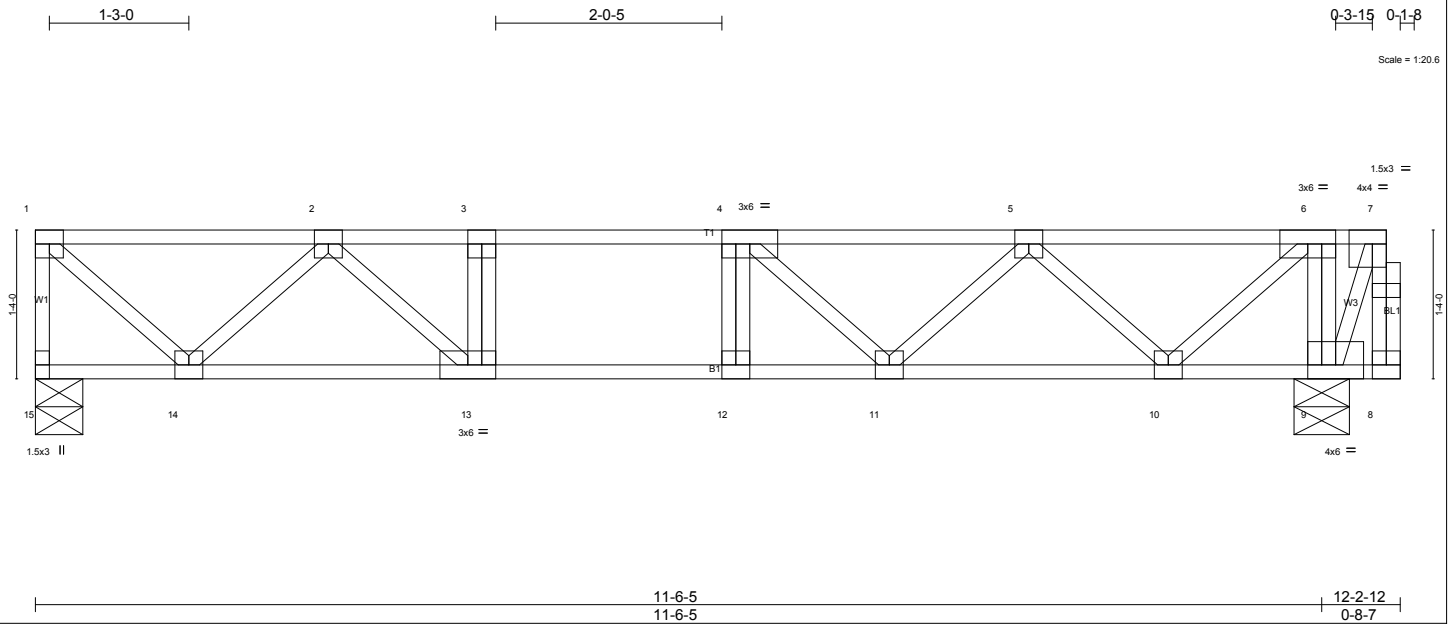


Plate Offsets (X,Y): [7-0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	1-4-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.66	Vert(LL) -0.08 11-12 >999 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.26	Vert(TL) -0.11 11-12 >999 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 69 lb	FT = 11%F, 11%E

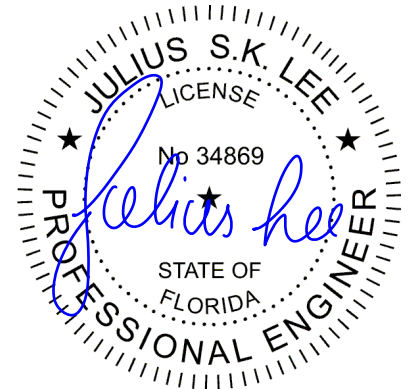
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3(flat)	6-0-0 oc bracing: 9-10.

**REACTIONS** (lb/size) 15=409/0-5-2 (min. 0-1-8), 9=674/0-5-15 (min. 0-1-8)  
Max Grav 15=417(LC 3), 9=674(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-15=-407/0, 1-2=-362/0, 2-3=-951/0, 3-4=-951/0, 4-5=-855/0, 5-6=-378/0  
BOT CHORD 13-14=0/715, 12-13=0/951, 11-12=0/951, 10-11=0/718  
WEBS 6-9=-494/0, 1-14=0/493, 2-14=-490/0, 2-13=0/393, 6-10=0/514, 5-10=-482/0

- NOTES** (7-9)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x3 MT20 unless otherwise indicated.
  - 3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) CAUTION, Do not erect truss backwards.
  - 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 SP, 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  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 8-15=-7, 1-7=-67  
Concentrated Loads (lb)  
Vert: 7=-200



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F28	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16252477
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:01 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-k3c44rZHKxys1UvQ5Bj8OutBR2T4\_MOrtO1lfzzzPgC

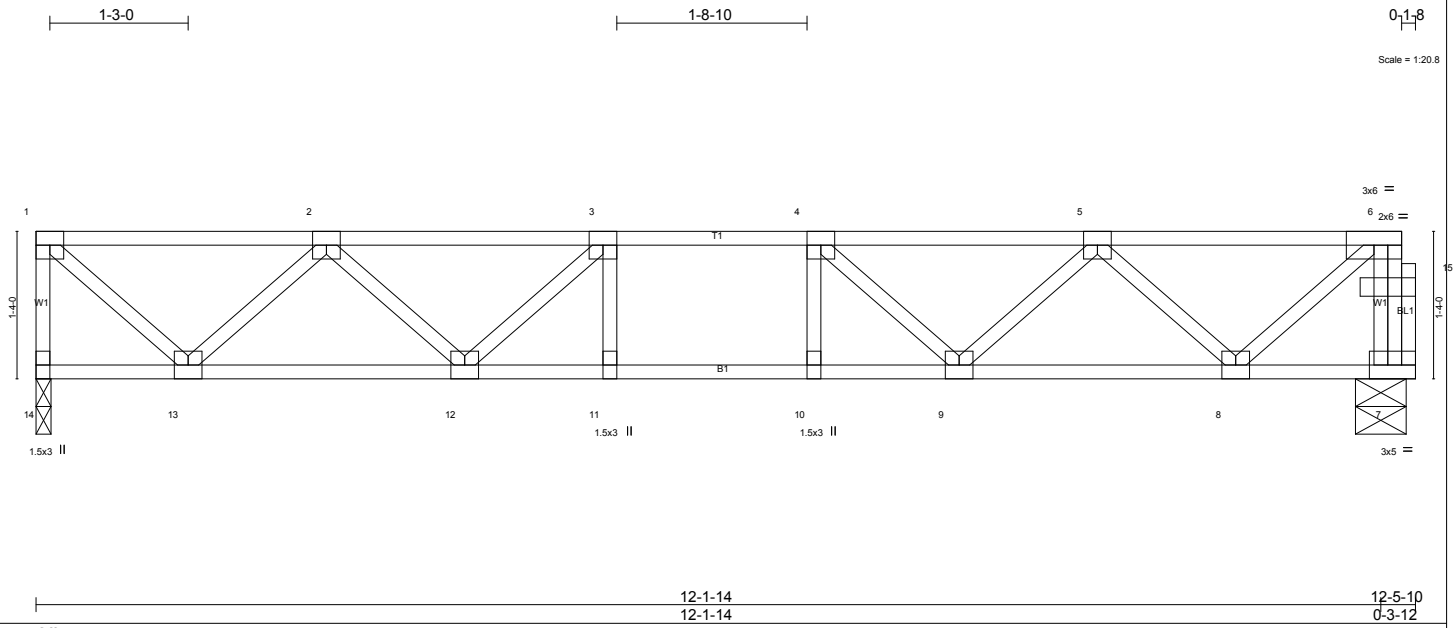


Plate Offsets (X,Y): [7-0-2-0,Edge], [15-0-1-8,0-1-0]				
<b>LOADING</b> (psf)	<b>SPACING</b> 1-4-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.30	Vert(LL) -0.06 9-10 >999 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.49	Vert(TL) -0.08 9-10 >999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.29	Horz(TL) 0.02 7 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 66 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 14=448/0-1-10 (min. 0-1-8), 7=444/0-5-8 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-14=-445/0, 7-15=-440/0, 6-15=-430/0, 1-2=-410/0, 2-3=-956/0, 3-4=-1123/0, 4-5=-973/0, 5-6=-445/0  
 BOT CHORD 12-13=0/785, 11-12=0/1123, 10-11=0/1123, 9-10=0/1123, 8-9=0/814  
 WEBS 1-13=0/557, 2-13=-522/0, 3-12=-292/0, 6-8=0/562, 5-8=-513/0, 4-9=-276/0

- NOTES** (7-9)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



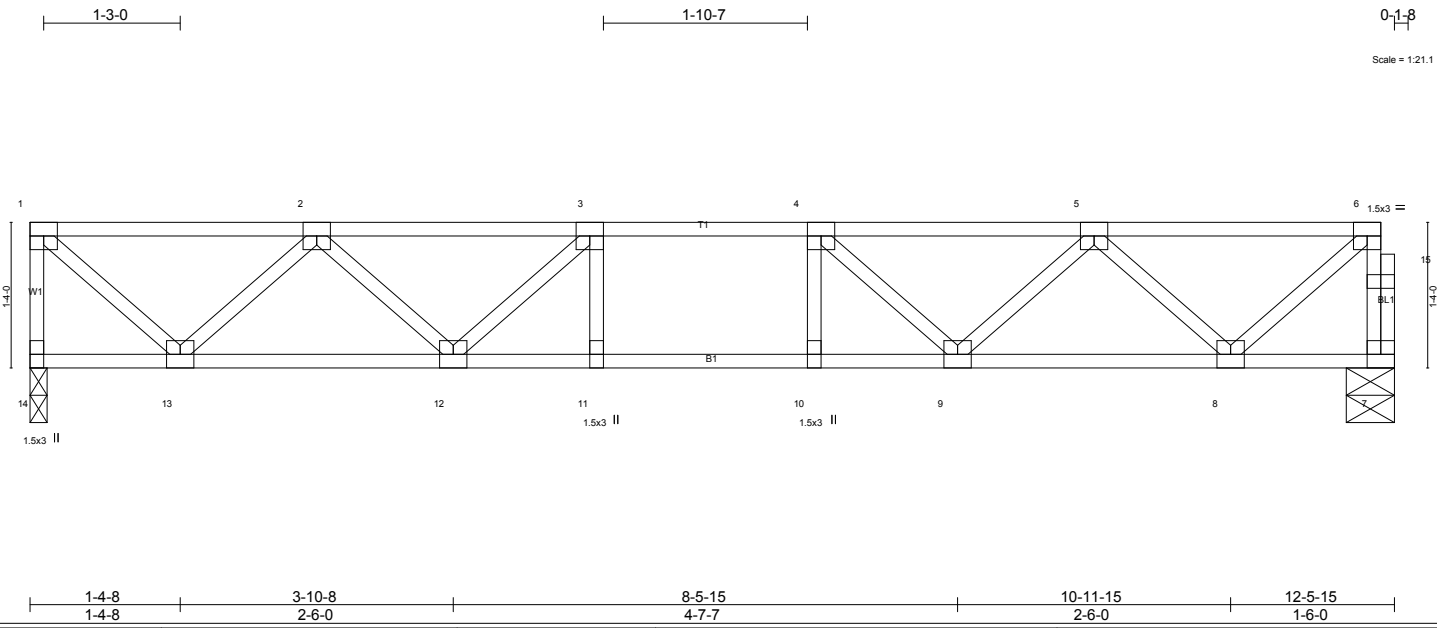
**LOAD CASE(S)** Standard

January 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 425247	Truss F29	Truss Type Floor Truss	Qty 1	Ply 1	6252478
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:02 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-CGASHBZv5F4jfeUcfuENx6QMJS7jpe\_62nrBOzzPqB



<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.29 BC 0.50 WB 0.29 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.06 9-10 >999 360 Vert(TL) -0.08 9-10 >999 240 Horz(TL) 0.02 7 n/a n/a	<b>PLATES</b> MT20 Weight: 64 lb	<b>GRIP</b> 244/190 FT = 11%F, 11%E
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**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**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.

**REACTIONS** (lb/size) 14=451/0-1-14 (min. 0-1-8), 7=447/0-5-5 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-14=-448/0, 7-15=-444/0, 6-15=-443/0, 1-2=-413/0, 2-3=-967/0, 3-4=-1137/0, 4-5=-975/0, 5-6=-431/0  
 BOT CHORD 12-13=0/792, 11-12=0/1137, 10-11=0/1137, 9-10=0/1137, 8-9=0/806  
 WEBS 6-8=0/555, 1-13=0/561, 5-8=-521/0, 2-13=-527/0, 2-12=0/254, 4-9=-292/0, 3-12=-300/0

- NOTES** (8-10)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x3 MT20 unless otherwise indicated.
  - 3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
  - 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) CAUTION, Do not erect truss backwards.
  - 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 SP, 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 2, 2013



Job 425247	Truss F30	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16252479
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:03 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-hSkqVXaYrZCaHo2oCclcTjYQrs3ks7O7KiWOjqzPqA

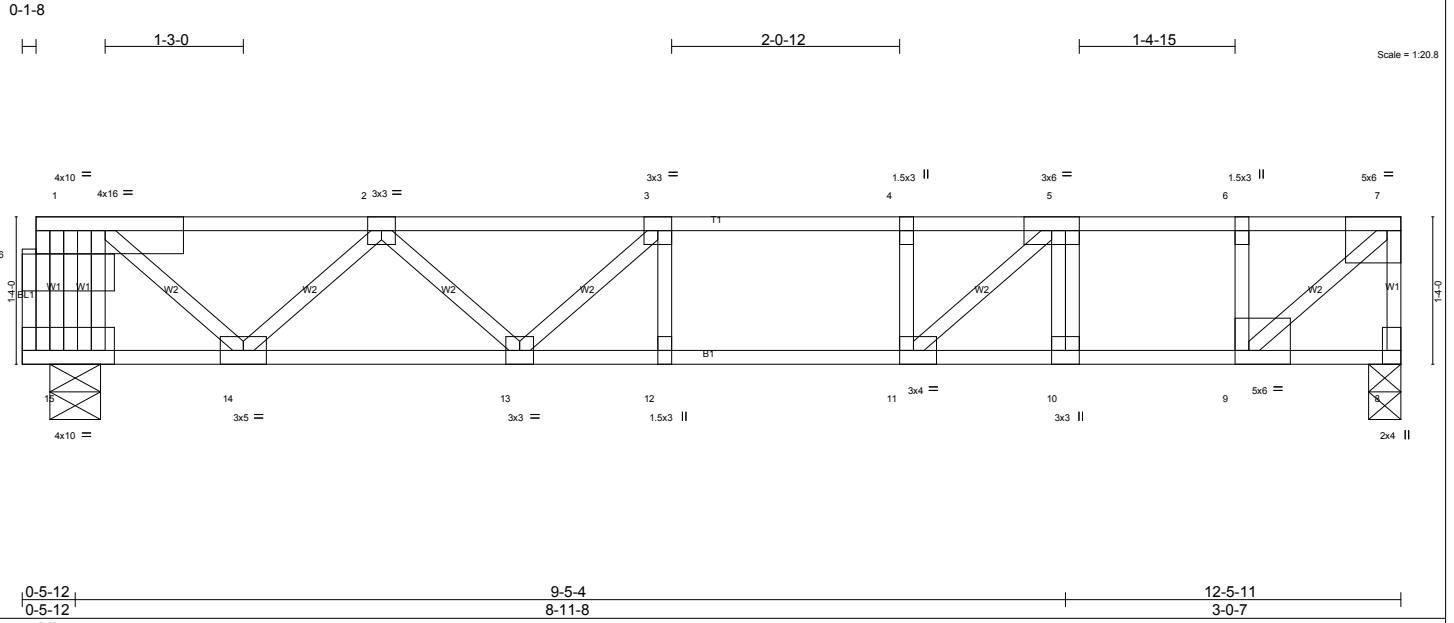


Plate Offsets (X,Y): [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,Edge], [15:Edge,0-1-8], [16:0-1-8,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING</b> 1-4-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.75	Vert(LL) -0.25 10-11 >577 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.86	Vert(TL) -0.39 10-11 >369 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.89	Horz(TL) 0.02 8 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 71 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 8=819/0-3-8 (min. 0-1-8), 15=760/0-5-8 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 15-16=-757/0, 1-16=-741/0, 7-8=-1005/0, 1-2=-656/0, 2-3=-1409/0, 3-4=-1770/0, 4-5=-1770/0, 5-6=-1321/0, 6-7=-1321/0  
 BOT CHORD 13-14=0/1124, 12-13=0/1770, 11-12=0/1770, 10-11=0/1321, 9-10=0/1321  
 WEBS 5-10=-487/0, 7-9=0/1759, 6-9=-632/0, 5-11=0/604, 4-11=-256/0, 1-14=0/779, 2-14=-652/0, 2-13=0/397, 3-13=-490/0

- NOTES** (6-8)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Bearings are assumed to be: , Joint 8 SYP No.2 .
  - 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.
  - 6) 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.
  - 7) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



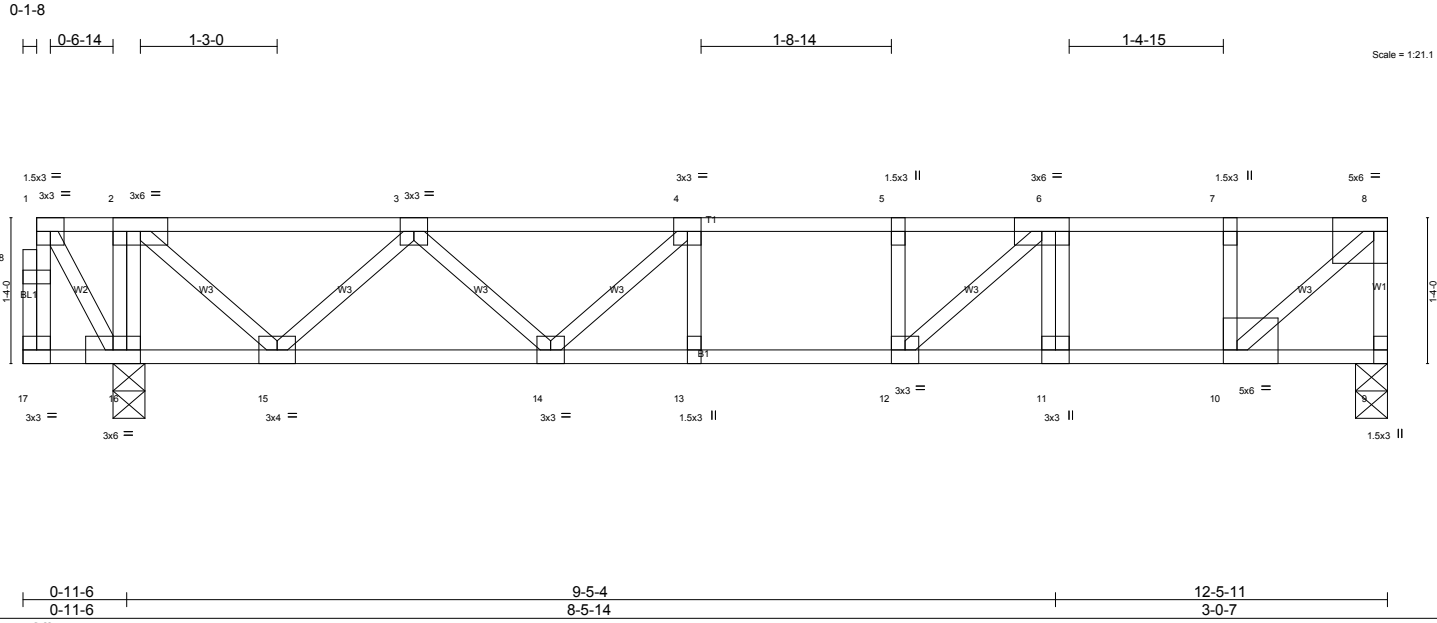
**LOAD CASE(S)** Standard  
 1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 8-15=-7, 1-7=-67  
 Concentrated Loads (lb)  
 Vert: 1=-200 5=-500

January 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job 425247	Truss F31	Truss Type Floor Truss	Qty 1	Ply 1	6252480
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:03 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yx31-hSkqVXaYrZCaHo2oCcclTJyQOs4LS??7KiWojqzPqA



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	1-4-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.82	Vert(LL) -0.23 11-12 >596 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.85	Vert(TL) -0.36 11-12 >383 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.02 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 69 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3(flat)	6-0-0 oc bracing: 15-16.

**REACTIONS** (lb/size) 9=775/0-3-8 (min. 0-1-8), 16=821/0-3-8 (min. 0-1-8)  
 Max Grav 9=786(LC 4), 16=821(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 8-9=964/0, 2-3=-514/0, 3-4=-1268/0, 4-5=-1646/0, 5-6=-1646/0, 6-7=-1263/0, 7-8=-1263/0  
 BOT CHORD 14-15=0/967, 13-14=0/1646, 12-13=0/1646, 11-12=0/1263, 10-11=0/1263  
 WEBS 2-16=-636/0, 6-11=-462/0, 8-10=0/1682, 7-10=-606/0, 6-12=0/518, 2-15=0/705, 3-15=-642/0,  
 3-14=0/437, 4-14=-541/0

- NOTES** (6-8)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.
  - 6) 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.
  - 7) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 8) 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) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 9-17=-7, 1-8=-67  
 Concentrated Loads (lb)  
 Vert: 1=-200 6=-500

January 2, 2013

Job 425247	Truss F32	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16252481
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:04 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-9eiDitbAcSKRvvd?mJGr0XVX7FQyBbEHZMGyGGzzPg9

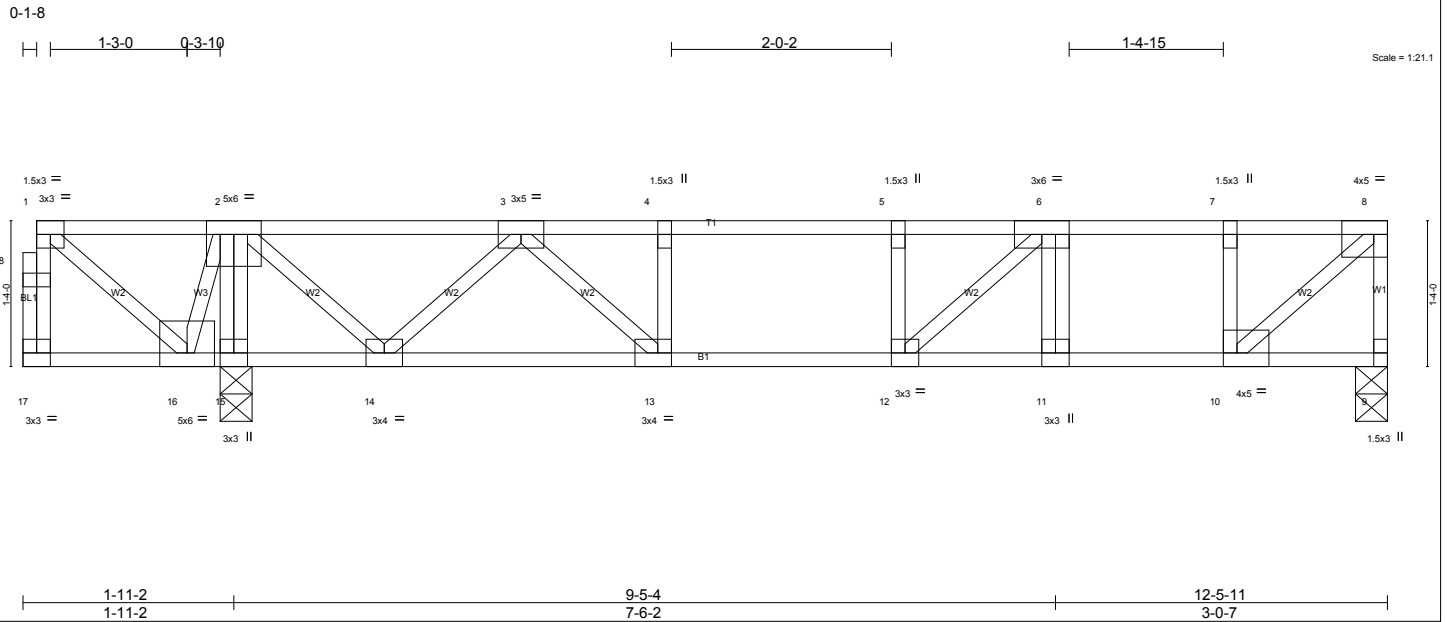


Plate Offsets (X,Y): [8:0-1-8,Edge], [10:0-1-8,Edge], [13:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING</b> 1-4-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.97	Vert(LL) -0.25 11-12 >505 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.80	Vert(TL) -0.39 11-12 >324 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.79	Horz(TL) 0.01 9 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 69 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 9=699/0-3-8 (min. 0-1-8), 15=898/0-3-8 (min. 0-1-8)  
Max Grav 9=731(LC 4), 15=898(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 8-9=904/0, 1-2=0/274, 2-3=-393/198, 3-4=-1366/0, 4-5=-1366/0, 5-6=-1366/0, 6-7=-1170/0, 7-8=-1170/0  
BOT CHORD 15-16=-354/0, 14-15=-348/0, 13-14=-27883, 12-13=0/1366, 11-12=0/1170, 10-11=0/1170  
WEBS 2-15=-765/0, 6-11=-408/0, 1-16=-372/0, 6-12=-82/276, 2-14=0/619, 3-14=-729/0, 3-13=0/819, 4-13=-352/0, 8-10=0/1558, 7-10=-540/0

- NOTES** (6-8)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 9-17=-7, 1-8=-67  
Concentrated Loads (lb)  
Vert: 1=-200 6=-500



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F33	Truss Type FLOOR TRUSS	Qty 1	Ply 1	Job Reference (optional) 6252482
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:05 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-drsbvDcoNASIW6CBK1n4Zk2of0w4zQo0?VojzzPg8

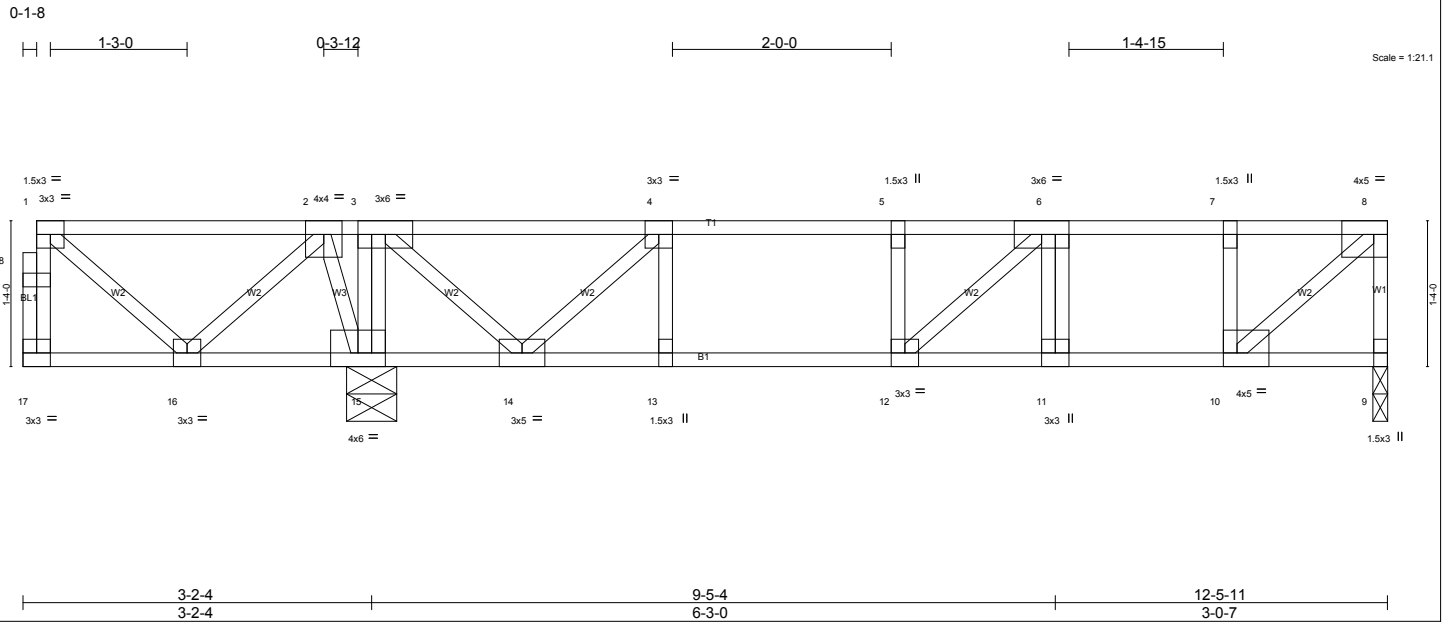


Plate Offsets (X,Y): [8'-0"-1'-8",Edge], [10'-0"-1'-8",Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	1-4-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.68	Vert(LL) -0.24 11-12 >466 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.70	Vert(TL) -0.37 11-12 >301 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 69 lb	FT = 11%F, 11%E

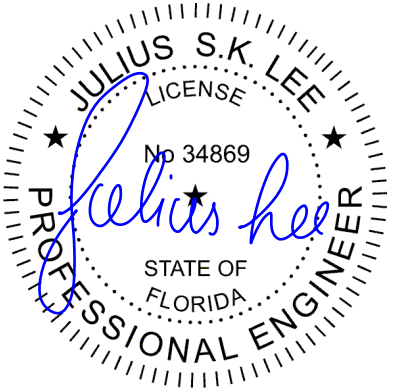
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 9=576/0-1-10 (min. 0-1-8), 15=1021/0-5-8 (min. 0-1-8)  
Max Grav 9=649(LC 4), 15=1021(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 8-9=-792/0, 1-2=0/297, 2-3=0/803, 3-4=-304/516, 4-5=-999/152, 5-6=-999/152, 6-7=-1030/0, 7-8=-1030/0  
BOT CHORD 15-16=-578/0, 14-15=-803/0, 13-14=-152/999, 12-13=-152/999, 11-12=0/1030, 10-11=0/1030  
WEBS 3-15=-441/0, 6-11=-286/46, 1-16=-404/0, 2-16=0/393, 2-15=-682/0, 6-12=-398/0, 3-14=0/804, 4-14=-1133/0, 4-13=0/412, 8-10=0/1371, 7-10=-505/0

- NOTES** (6-8)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
  - 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.
  - 6) 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.
  - 7) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 8) 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) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 9-17=-7, 1-8=-67  
Concentrated Loads (lb)  
Vert: 1=-200 6=-500



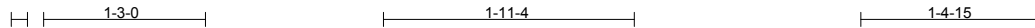
January 2, 2013

Job 425247	Truss F34	Truss Type Floor Truss	Qty 6	Ply 1	Job Reference (optional)	16252483
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:06 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-51Pz7ZcQ8Ua88GnNukIJ5yavT37?fXGa1gl3K9zzPq7

0-1-8



Scale = 1:17.8

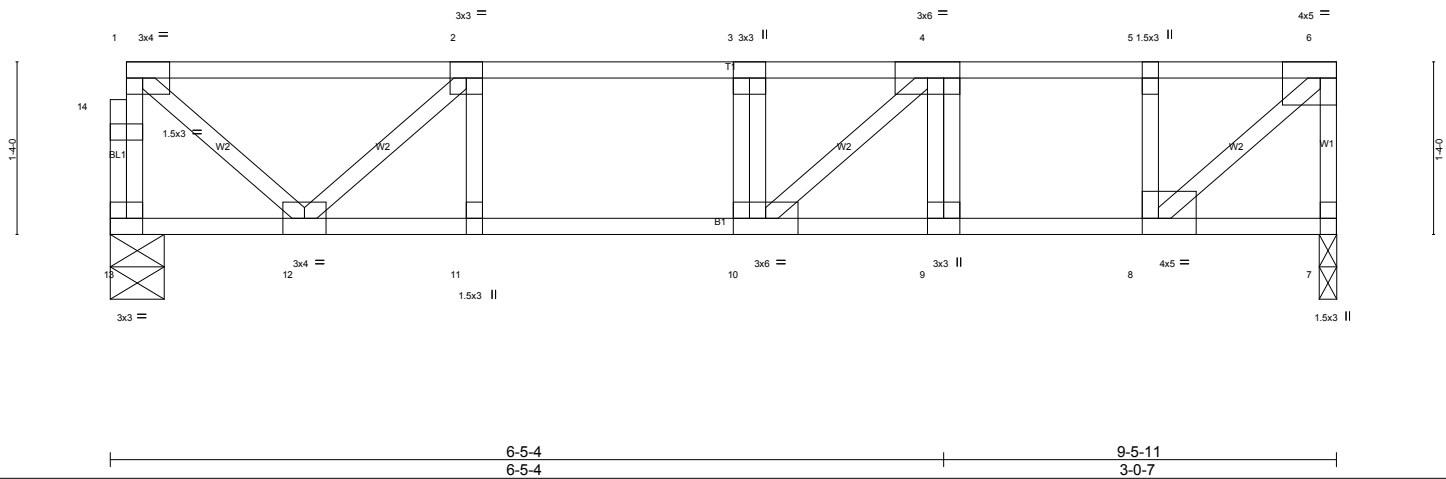


Plate Offsets (X,Y): [6:0-1-8,Edge], [8:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 1-4-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.86	Vert(LL) -0.24 9-10 >468 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.70	Vert(TL) -0.37 9-10 >303 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.69	Horz(TL) 0.01 7 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 52 lb FT = 11%F, 11%E

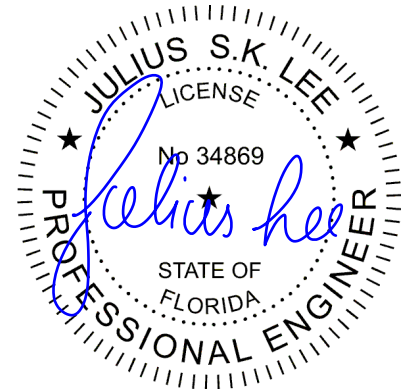
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 13=480/0-5-0 (min. 0-1-8), 7=646/0-1-10 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 13-14=-452/0, 1-14=-451/0, 6-7=-797/0, 1-2=-472/0, 2-3=-1083/0, 3-4=-1083/0, 4-5=-1025/0, 5-6=-1025/0  
 BOT CHORD 11-12=0/1083, 10-11=0/1083, 9-10=0/1025, 8-9=0/1025  
 WEBS 4-9=-315/0, 1-12=0/610, 2-12=-830/0, 2-11=0/305, 6-8=0/1364, 5-8=-481/0

- NOTES** (6-8)
- Unbalanced floor live loads have been considered for this design.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 7-13=-7, 1-6=-67  
 Concentrated Loads (lb)  
 Vert: 4=-450



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

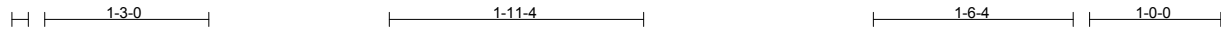
Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 425247	Truss F35	Truss Type Floor Truss	Qty 7	Ply 1	Job Reference (optional) 6252484
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:06 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yx3C31-51Pz7ZcQ8Ua88GnNukIJ5yatj35fW?a1gl3K9zzPq7

0-1-8



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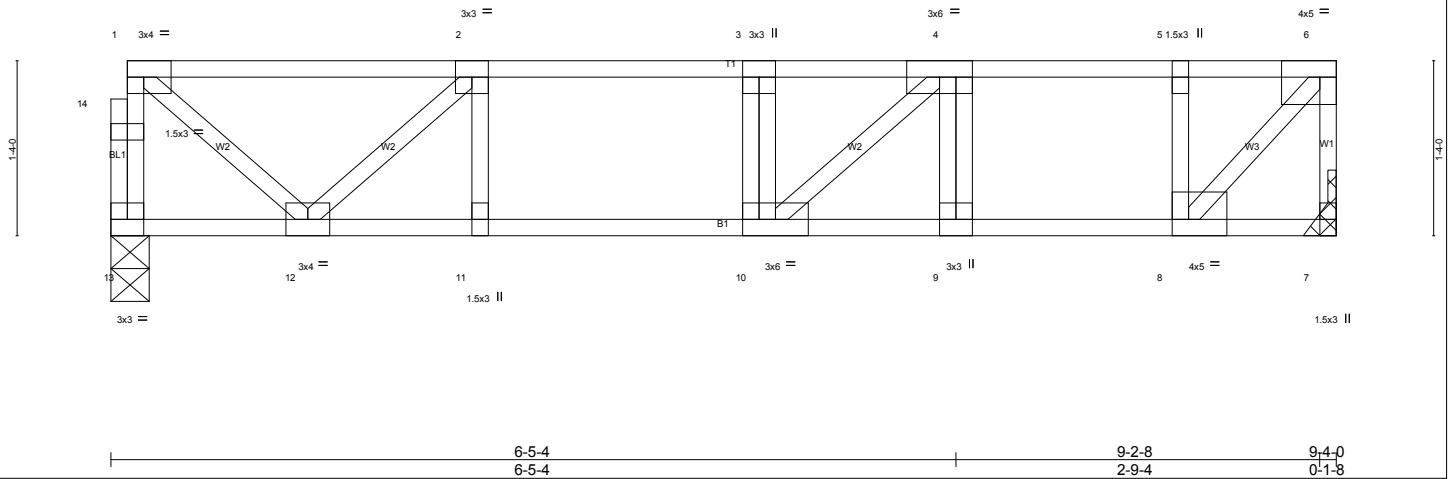


Plate Offsets (X,Y): [6:0-1-8,Edge], [8:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	1-4-0	TC 0.97	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.77	Vert(LL) -0.25 9-10 >441 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.71	Vert(TL) -0.39 9-10 >285 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 51 lb	FT = 11%F, 11%E

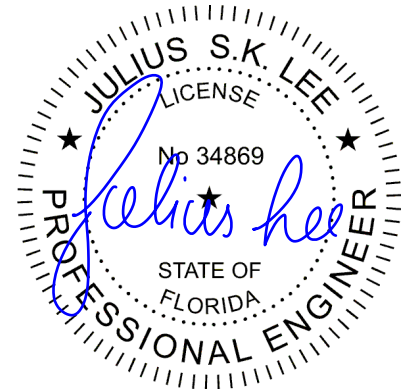
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 13=471/0-3-8 (min. 0-1-8), 7=646/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 13-14=-443/0, 1-14=-442/0, 6-7=-857/0, 1-2=-461/0, 2-3=-1055/0, 3-4=-1055/0, 4-5=-954/0, 5-6=-954/0  
 BOT CHORD 11-12=0/1055, 10-11=0/1055, 9-10=0/954, 8-9=0/954  
 WEBS 4-9=-333/0, 1-12=0/595, 2-12=-808/0, 2-11=0/295, 6-8=0/1400, 5-8=-537/0

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - Bearings are assumed to be: Joint 13 SYP No.2.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard  
 1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 7-13=-7, 1-6=-67  
 Concentrated Loads (lb)  
 Vert: 4=-450



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss F36	Truss Type Floor Truss	Qty 9	Ply 1	Job Reference (optional)	16252485
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:07 2013 Page 1

ID:C5eaM?9VfkFyOjQZLSNmz8yx31-ZDzLKud2vni?mPMaRSqYe9753TS20\_yjFKUcsbzzPg6

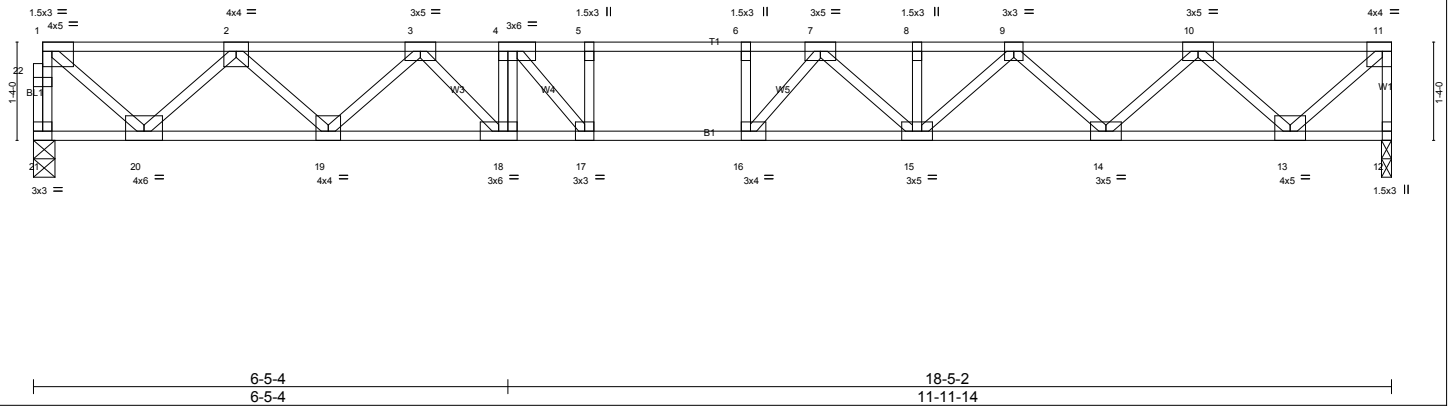
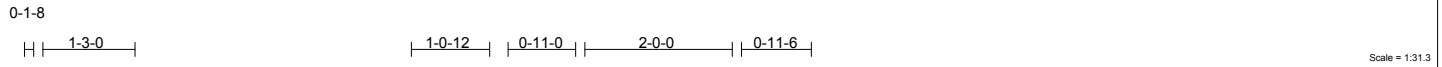


Plate Offsets (X,Y): [1:Edge,0-1-8], [11:0-1-8,Edge], [16:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	1-4-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.71	Vert(LL) -0.24 17 >915 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.66	Vert(TL) -0.37 17 >586 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.06 12 n/a n/a		
	Code FBC2010/TPI2007			Weight: 98 lb	FT = 11%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SYP No.1(flat)  
BOT CHORD 2x4 SYP M 31(flat)  
WEBS 2x4 SP No.3(flat)

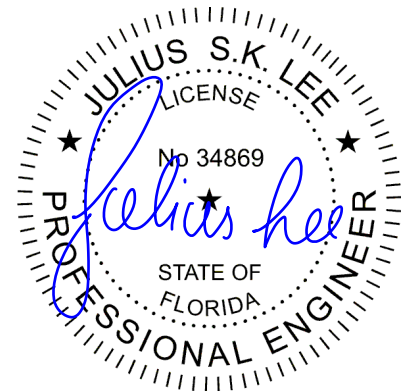
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 21=959/0-3-8 (min. 0-1-8), 12=825/0-1-10 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 21-22=955/0, 1-22=954/0, 11-12=818/0, 1-2=-1011/0, 2-3=-2610/0, 3-4=-3824/0, 4-5=-3735/0, 5-6=-3735/0, 6-7=-3735/0, 7-8=-3105/0, 8-9=-3105/0, 9-10=-2144/0, 10-11=-815/0  
BOT CHORD 19-20=0/1913, 18-19=0/3294, 17-18=0/3824, 16-17=0/3735, 15-16=0/3451, 14-15=0/2680, 13-14=0/1581  
WEBS 4-18=-462/0, 1-20=0/1308, 2-20=-1254/0, 2-19=0/970, 3-19=-952/0, 3-18=0/756, 4-17=-460/402, 11-13=0/1108, 10-13=-1066/0, 10-14=0/783, 9-14=-745/0, 9-15=0/578, 7-15=-518/0, 7-16=-42/695, 6-16=-360/0

**NOTES** (7-9)  
1) Unbalanced floor live loads have been considered for this design.  
2) Bearings are assumed to be: Joint 21 SYP No.2 .  
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.  
4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
6) CAUTION, Do not erect truss backwards.  
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 SP, 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  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 12-21=-7, 1-11=-67  
Concentrated Loads (lb)  
Vert: 4=-450



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 425247	Truss F37	Truss Type Floor Truss	Qty 7	Ply 1	Job Reference (optional) 6252486
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:08 2013 Page 1  
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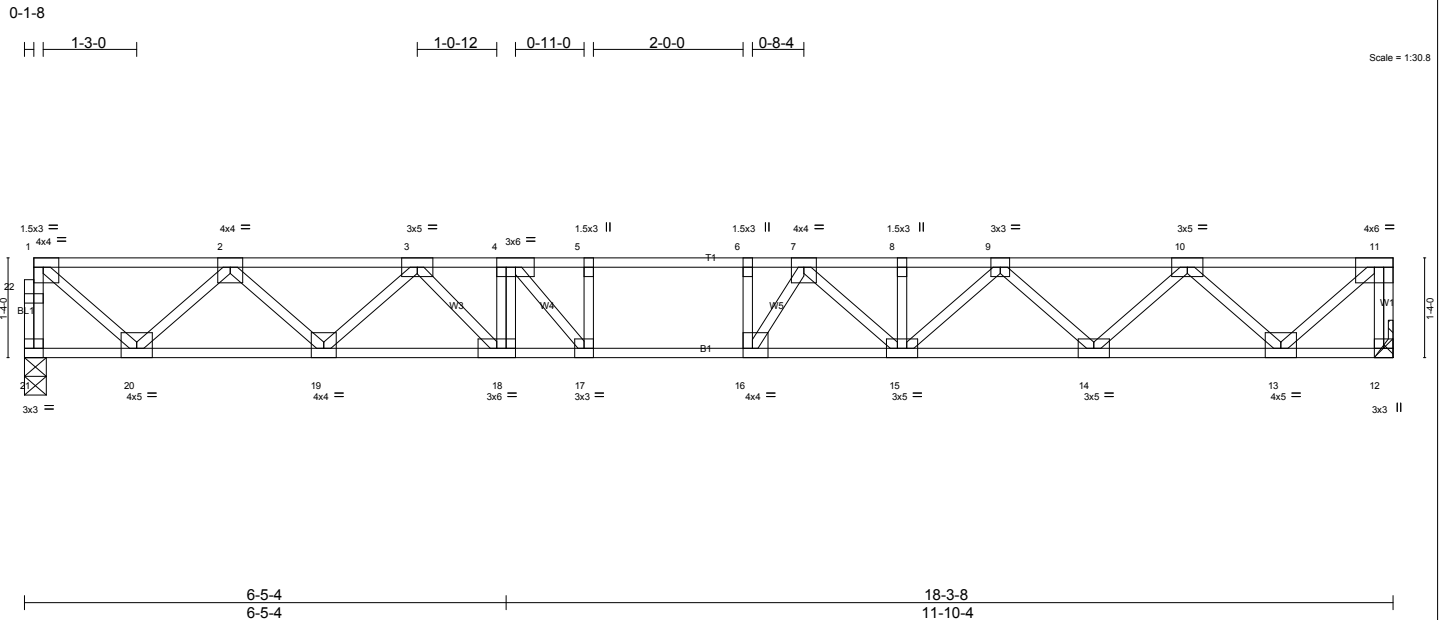


Plate Offsets (X,Y): [1:Edge,0-1-8], [16:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING</b> 1-4-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.84	Vert(LL) -0.23 17 >928 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.71	Vert(TL) -0.36 17 >594 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.66	Horz(TL) 0.06 12 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 99 lb FT = 11%F, 11%E

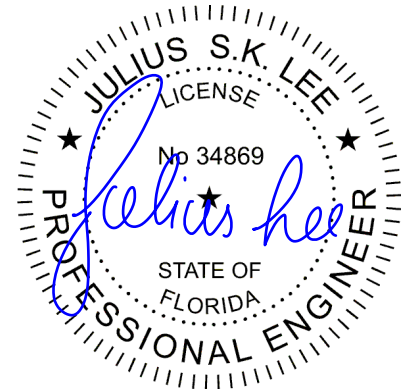
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 21=950/0-3-8 (min. 0-1-8), 12=819/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 21-22=-946/0, 1-22=-945/0, 11-12=-813/0, 1-2=-1001/0, 2-3=-2581/0, 3-4=-3778/0, 4-5=-3675/0, 5-6=-3675/0, 6-7=-3675/0, 7-8=-3094/0, 8-9=-3094/0, 9-10=-2155/0, 10-11=-845/0  
BOT CHORD 19-20=0/1893, 18-19=0/3256, 17-18=0/3778, 16-17=0/3675, 15-16=0/3436, 14-15=0/2679, 13-14=0/1604  
WEBS 4-18=-451/0, 1-20=0/1294, 2-20=-1241/0, 2-19=0/957, 3-19=-939/0, 3-18=0/745, 4-17=-467/379, 11-13=0/1125, 10-13=-1055/0, 10-14=0/767, 9-14=-729/0, 9-15=0/564, 7-15=-537/0, 7-16=-517/14, 6-16=-426/0

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - Bearings are assumed to be: Joint 21 SYP No.2 .
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson THA422 to attach Truss to Carrying member

**LOAD CASE(S)** Standard  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 12-21=-7, 1-11=-67  
Concentrated Loads (lb)  
Vert: 4=450



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435



Job 425247	Truss F38	Truss Type Floor Truss	Qty 5	Ply 1	Job Reference (optional) 6252487
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:09 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-Vc56lafIRPyj?jWyZts0jaCUhG6psv80jezjxUzzPq4

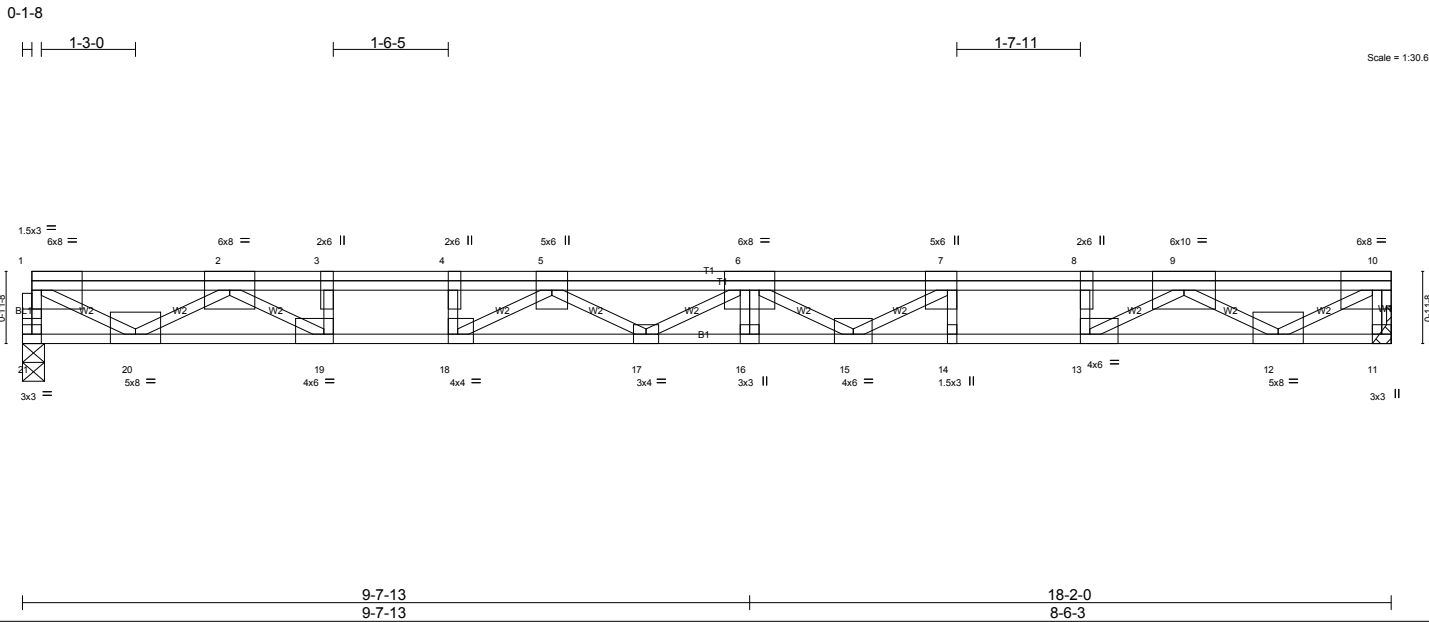


Plate Offsets (X,Y): [1:0-1-8,0-0-8], [3:0-3-0,Edge], [4:0-3-0,0-0-0], [7:0-3-0,Edge], [8:0-3-0,Edge], [10:0-3-0,Edge], [13:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.88	Vert(LL) -0.46 16 >466 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.62	Vert(TL) -0.72 16 >298 240		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.09 11 n/a n/a		
				Weight: 112 lb	FT = 11%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SYP No.1(flat)  
BOT CHORD 2x4 SYP M 31(flat)  
WEBS 2x4 SP No.2(flat) \*Except\*  
BL1,W1: 2x4 SP No.3(flat)

**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.

**REACTIONS** (lb/size) 21=868/0-3-8 (min. 0-1-8), 11=896/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-21=-848/0, 10-11=-871/0, 1-2=-1343/0, 2-3=-4195/0, 3-4=-4195/0, 4-5=-4195/0, 5-6=-5966/0,  
6-7=-5554/0, 7-8=-4454/0, 8-9=-4454/0, 9-10=-1359/0  
BOT CHORD 19-20=0/2581, 18-19=0/4195, 17-18=0/5433, 16-17=0/6385, 15-16=0/6385, 14-15=0/4454,  
13-14=0/4454, 12-13=0/2675  
WEBS 1-20=0/1529, 6-17=-521/0, 2-20=-1455/0, 5-17=0/665, 2-19=0/1923, 5-18=-1513/0, 3-19=-846/0,  
4-18=0/662, 10-12=0/1558, 9-12=-1546/0, 9-13=0/2118, 8-13=-893/0, 6-15=-1013/0, 7-15=0/1341

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - Bearings are assumed to be: Joint 21 SYP No.2 .
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 11-21=-7, 1-10=-67  
Concentrated Loads (lb)  
Vert: 6=-450

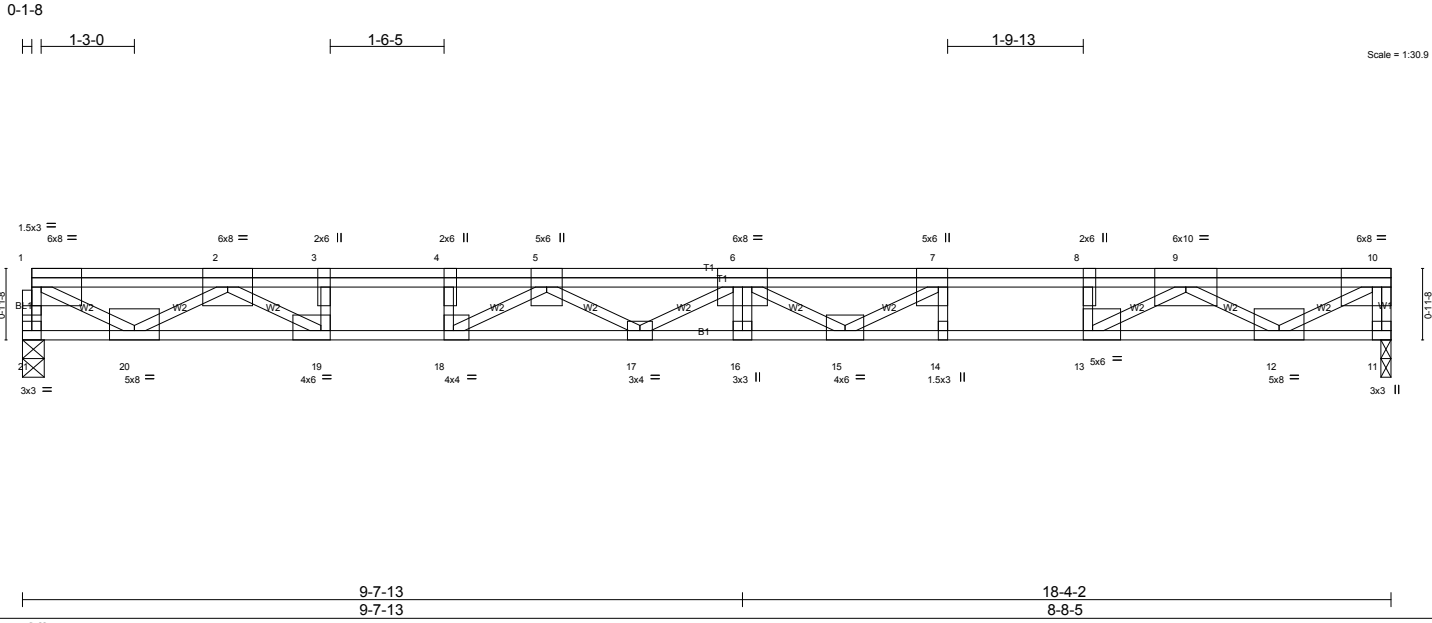


January 2, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b> 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 <b>ANSI/TPI1 Quality Criteria, D38-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 425247	Truss F39	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional) 6252488
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:09 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yx31-Vc56lafIRPyj?jWyZts0jaCTIG5Nsk0jezxUzzPq4



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.91	Vert(LL) -0.49 16 >445 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.65	Vert(TL) -0.76 16 >285 240		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.09 11 n/a n/a		
				Weight: 113 lb	FT = 11%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SYP No.1(flat)  
 BOT CHORD 2x4 SYP M 31(flat)  
 WEBS 2x4 SP No.2(flat) \*Except\*  
 BL1,W1: 2x4 SP No.3(flat)

**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.

**REACTIONS** (lb/size) 21=877/0-3-8 (min. 0-1-8), 11=900/0-1-10 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-21=-857/0, 10-11=-873/0, 1-2=-1358/0, 2-3=-4250/0, 3-4=-4250/0, 4-5=-4250/0, 5-6=-6063/0,  
 6-7=-5664/0, 7-8=-4538/0, 8-9=-4538/0, 9-10=-1360/0  
 BOT CHORD 19-20=0/2610, 18-19=0/4250, 17-18=0/5509, 16-17=0/6503, 15-16=0/6503, 14-15=0/4538,  
 13-14=0/4538, 12-13=0/2686  
 WEBS 1-20=0/1546, 6-17=-543/0, 2-20=-1472/0, 5-17=0/690, 2-19=0/1951, 5-18=-1537/0, 3-19=-859/0,  
 4-18=0/672, 10-12=0/1559, 6-15=-1023/0, 9-12=-1558/0, 7-15=0/1372, 9-13=0/2206, 8-13=-935/0

**NOTES** (7-9)  
 1) Unbalanced floor live loads have been considered for this design.  
 2) Bearings are assumed to be: Joint 21 SYP No.2 .  
 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.  
 4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
 6) CAUTION, Do not erect truss backwards.  
 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 SP, 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  
 1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 11-21=-7, 1-10=-67  
 Concentrated Loads (lb)  
 Vert: 6=-450

January 2, 2013

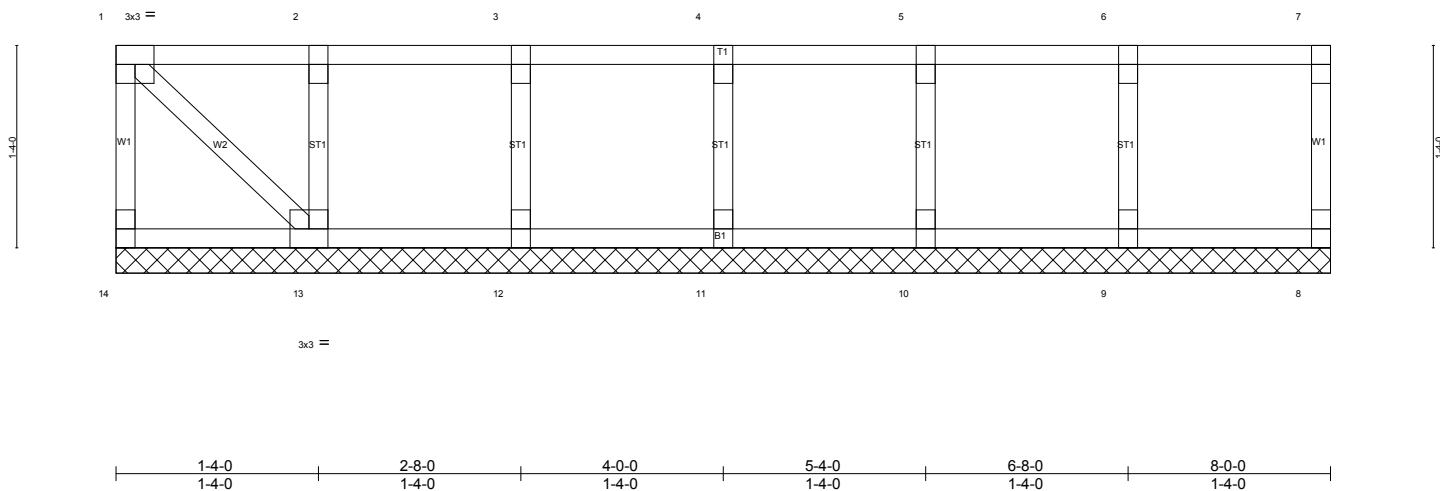
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and 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, D58-89 and BCS11 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 425247	Truss FKW01	Truss Type GABLE	Qty 7	Ply 1	Job Reference (optional)	16252489
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:10 2013 Page 1  
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<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber Increase 1.00	WB 0.05	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 13 n/a n/a		
	Code FBC2010/TPI2007			Weight: 37 lb	FT = 11%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)  
 OTHERS 2x4 SP No.3(flat)

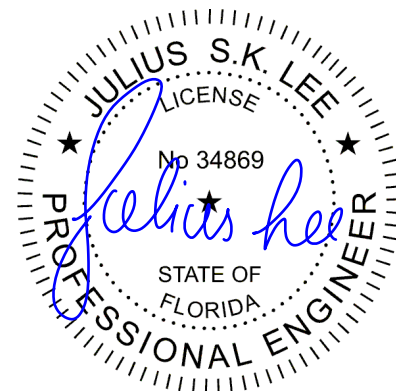
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** All bearings 8-0-0.  
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES** (8-10)
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 SP, 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 2, 2013

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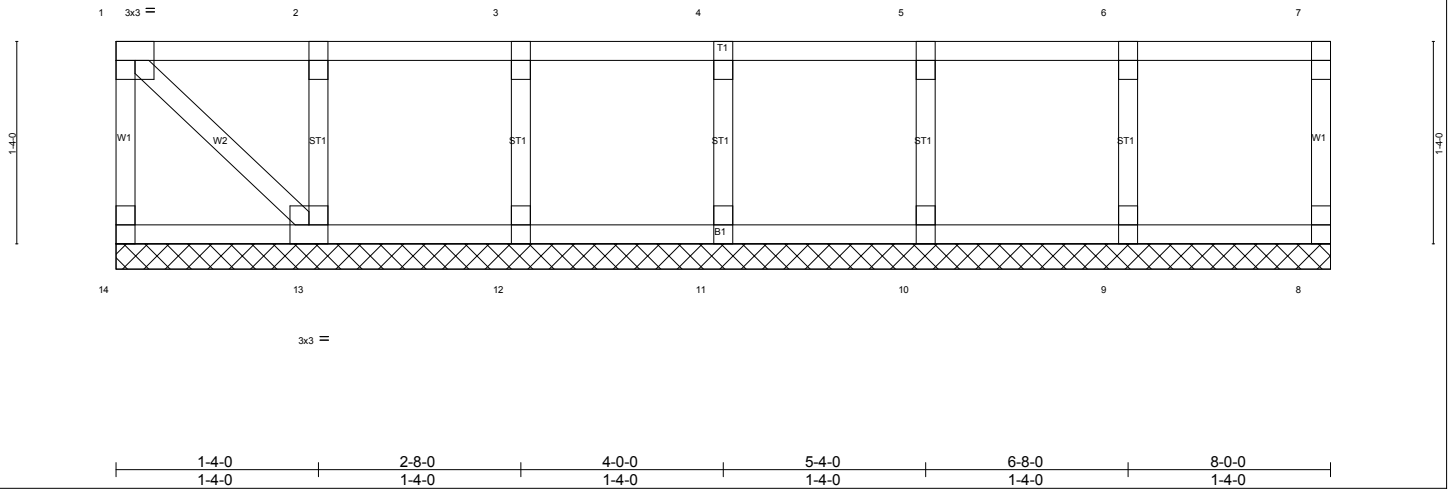
Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 425247	Truss FKW02	Truss Type GABLE	Qty 6	Ply 1	Job Reference (optional)	16252490
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:10 2013 Page 1  
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Scale = 1:15.2



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber Increase 1.00	WB 0.05	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 13 n/a n/a		
	Code FBC2010/TPI2007			Weight: 37 lb	FT = 11%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

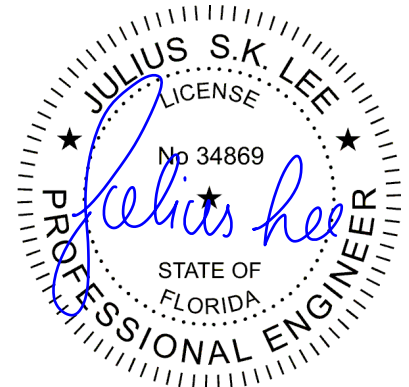
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** All bearings 8-0-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES** (8-10)
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 SP, 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 2, 2013

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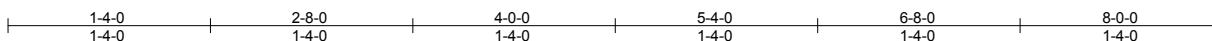
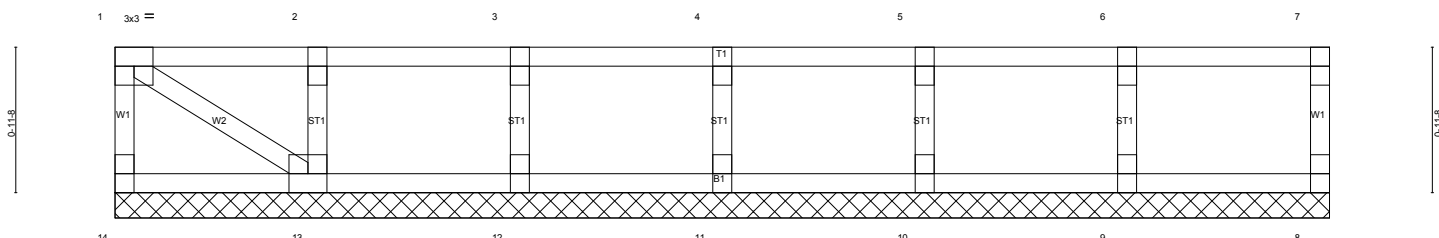
Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 425247	Truss FKW03	Truss Type GABLE	Qty 3	Ply 1	Job Reference (optional) 16252491
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:11 2013 Page 1  
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Scale = 1:15.2



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plates Increase 1.4-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Vert(TL) n/a - n/a 999		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) -0.00 8 n/a n/a		
				Weight: 33 lb	FT = 11%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

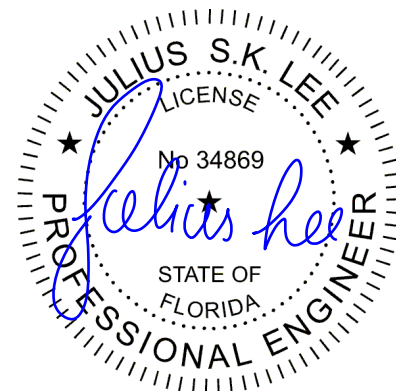
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** All bearings 8-0-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES** (8-10)
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 SP, 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 2, 2013

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

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
425247	HJ01	Diagonal Hip Girder	1	1	

16252492

Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:12 2013 Page 1

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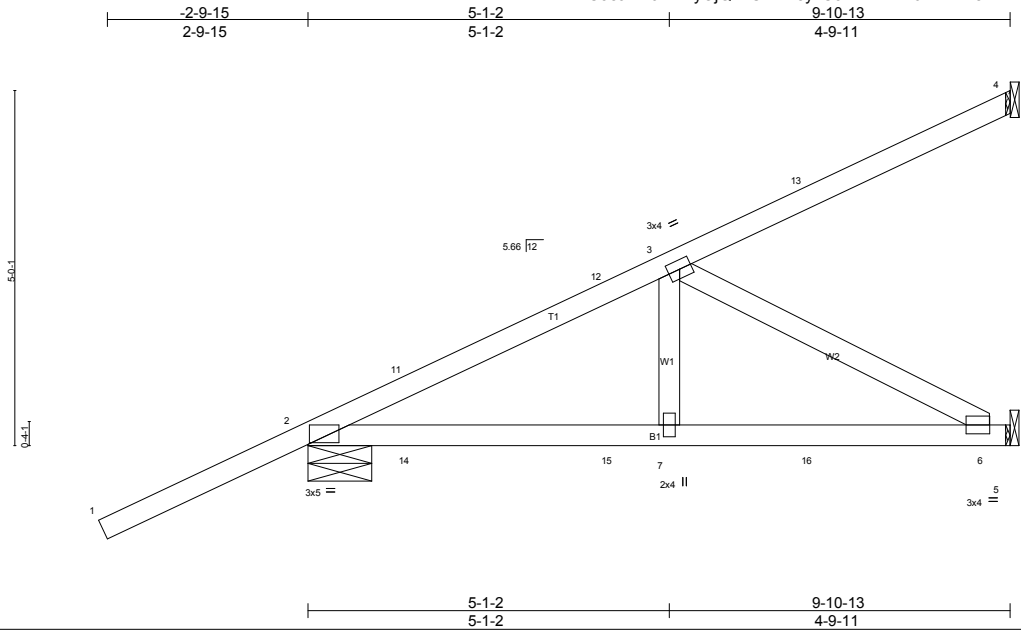


Plate Offsets (X,Y): [2:0-5-4,0-0-5]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.43	Vert(LL) -0.04 6-7 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.22	Vert(TL) -0.08 6-7 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) -0.01 5 n/a n/a		
	Code FBC2010/TPI2007			Weight: 46 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 8-7-8 oc bracing.

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

**REACTIONS** (lb/size) 4=110/Mechanical, 2=286/0-10-13 (min. 0-1-8), 5=169/Mechanical  
 Max Horz 2=360(LC 8)  
 Max Uplift 4=-204(LC 8), 2=-209(LC 8), 5=-215(LC 8)  
 Max Grav 4=134(LC 2), 2=356(LC 2), 5=229(LC 3)

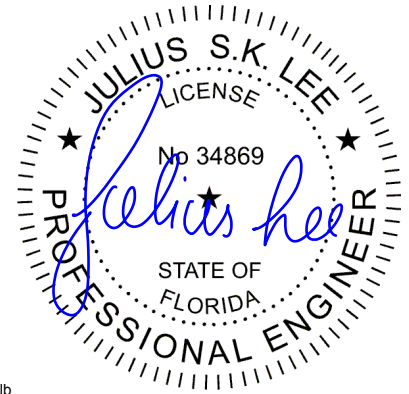
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-11=-578/437, 11-12=-325/281, 3-12=-342/266  
 BOT CHORD 2-14=-559/703, 14-15=-446/322, 7-15=-446/322, 7-16=-446/322, 6-16=-446/322  
 WEBS 3-6=-366/506

**NOTES** (9-11)

- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 4, 209 lb uplift at joint 2 and 215 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) 84 lb down and 74 lb up at 1-5-12, 84 lb down and 74 lb up at 1-5-12, 3 lb down and 70 lb up at 4-3-11, 3 lb down and 70 lb up at 4-3-11, and 37 lb down and 167 lb up at 7-1-10, and 37 lb down and 167 lb up at 7-1-10 on top chord, and 16 lb up at 1-5-12, 16 lb up at 1-5-12, 9 lb down and 2 lb up at 4-3-11, 9 lb down and 2 lb up at 4-3-11, and 39 lb down at 7-1-10, and 39 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 10) Note: Visually graded lumber designation SP, 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, 2-9=-14, 4-9=-44, 5-8=-10
- Concentrated Loads (lb)  
 Vert: 11=88(F=44, B=44) 12=69(F=35, B=35) 13=-60(F=-30, B=-30) 14=11(F=5, B=5) 15=-6(F=-3, B=-3) 16=-26(F=-13, B=-13)



January 2, 2013

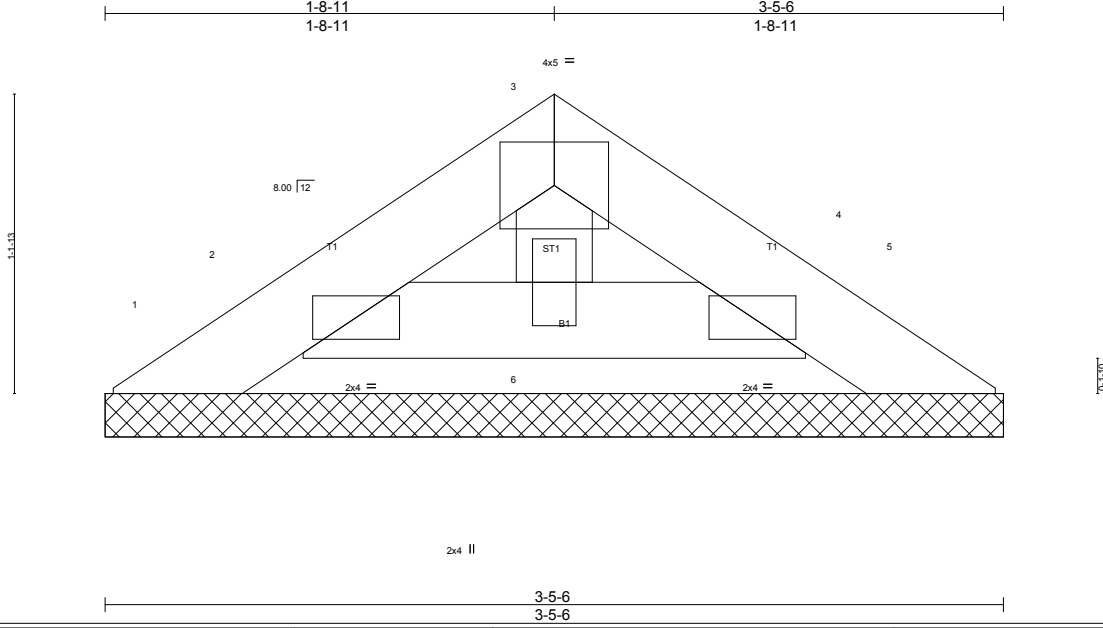
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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, D58-89 and BCS11 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 425247	Truss P01	Truss Type GABLE	Qty 1	Ply 1	6252493
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:13 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yx31-ONKcbyipVdt9UKpjoiywTQNXugJorQceGxw4FzzPq0



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.04 BC 0.02 WB 0.03 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 10 lb FT = 20%
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**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 3-5-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** All bearings 3-5-6.  
 (lb) - Max Horz 1=39(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 6

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

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

**NOTES** (12-14)  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.  
 4) Gable requires continuous bottom chord bearing.  
 5) Gable studs spaced at 1-4-0 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) 1, 5, 2, 6.  
 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.  
 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 SP, 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

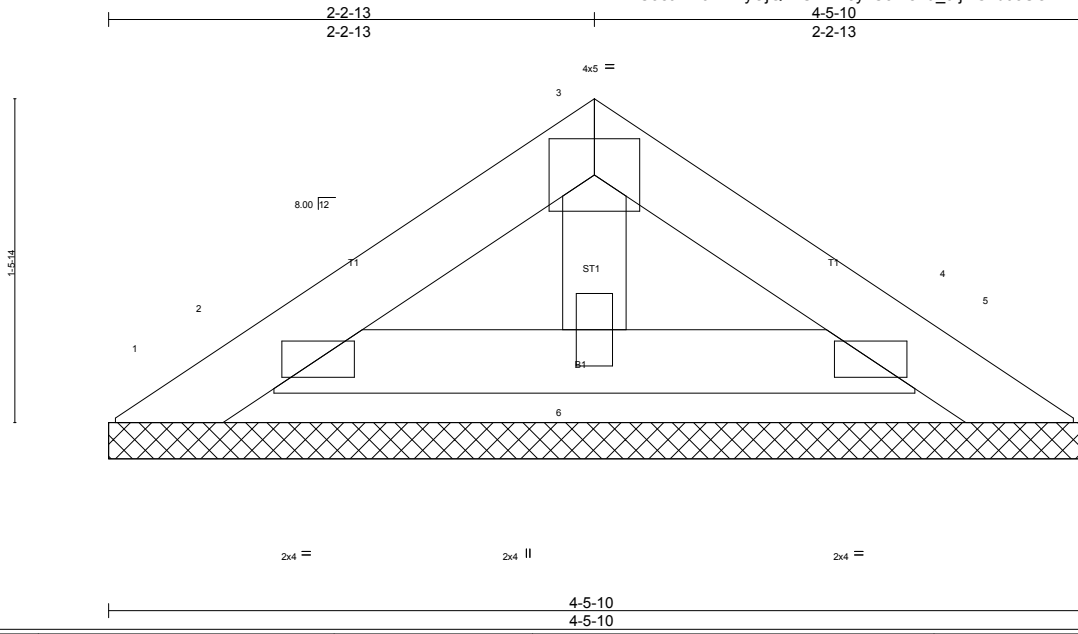


**LOAD CASE(S)** Standard

January 2, 2013

Job 425247	Truss P02	Truss Type GABLE	Qty 3	Ply 1	6252494
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:14 2013 Page 1  
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Scale = 1:10.6

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.01	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 4 n/a n/a		
	Code FBC2010/TPI2007			Weight: 13 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 4-5-10 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 4-5-10.  
 (lb) - Max Horz 1=-42(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

- NOTES** (12-14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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
  - 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4, 6.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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 2, 2013



Job 425247	Truss T01	Truss Type GABLE	Qty 1	Ply 1	6252495
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:16 2013 Page 1  
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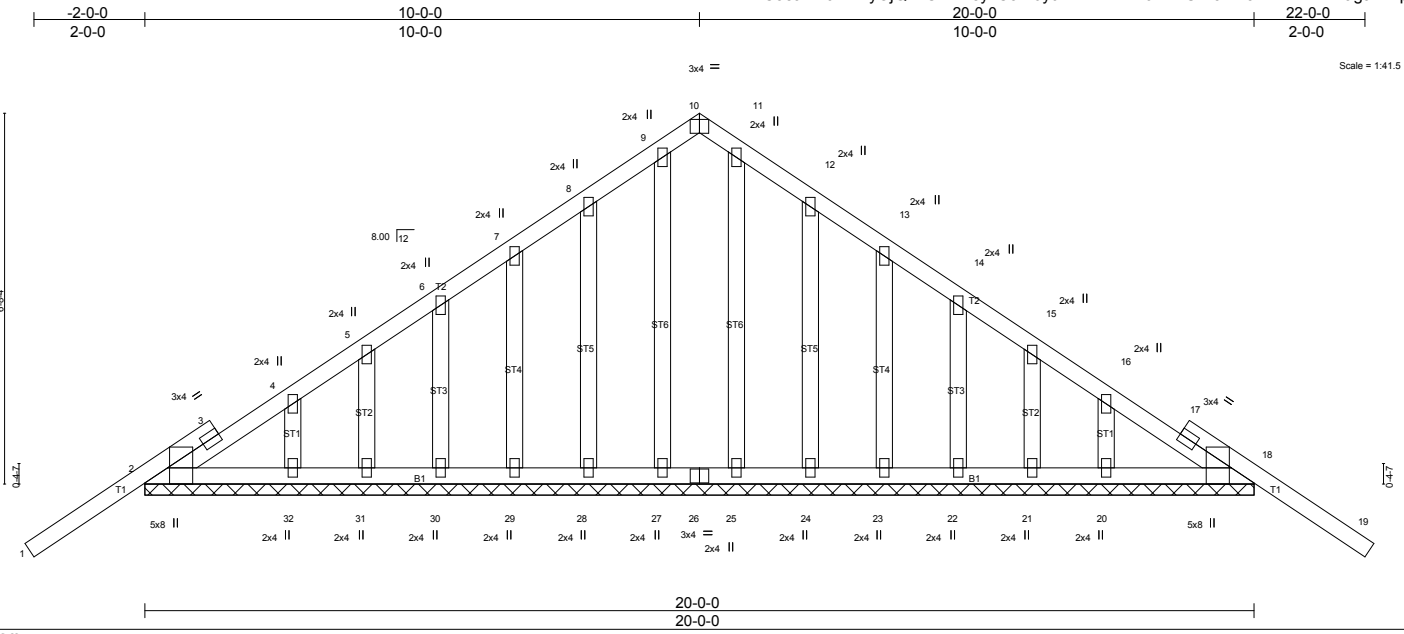


Plate Offsets (X,Y): [2:0-3-8,Edge], [10:0-2-0,Edge], [11:0-0-0-0-0-0], [12:0-0-0-0-0-0], [13:0-0-0-0-0-0], [14:0-0-0-0-0-0], [15:0-0-0-0-0-0], [16:0-0-0-0-0-0], [18:0-3-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.45	Vert(LL) -0.03 19 n/r 120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.09	Vert(TL) -0.05 19 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(TL) 0.01 18 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 138 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

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

**REACTIONS** All bearings 20-0-0.  
 (lb) - Max Horz 2=-268(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 27, 30, 32, 22, 20 except 2=-106(LC 12), 18=-135(LC 13), 28=-120(LC 12), 29=-102(LC 12), 31=-122(LC 12), 24=-127(LC 13), 23=-102(LC 13), 21=-119(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 BOT CHORD 2-32=-191/260, 31-32=-191/260, 30-31=-191/260, 29-30=-191/260, 28-29=-191/260, 27-28=-191/260, 26-27=-191/260, 25-26=-191/260, 24-25=-191/260, 23-24=-191/260, 22-23=-191/260, 21-22=-191/260, 20-21=-191/260, 18-20=-191/260

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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
  - 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 30, 32, 22, 20 except (jt=lb) 2=106, 18=135, 28=120, 29=102, 31=122, 24=127, 23=102, 21=119.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss T02	Truss Type Common Truss	Qty 1	Ply 1	Job Reference (optional)	16252496
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:17 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-G8a7RJJKYszbyy7V1Y?u2GXsLVtukakBYtv8C0zzPpy

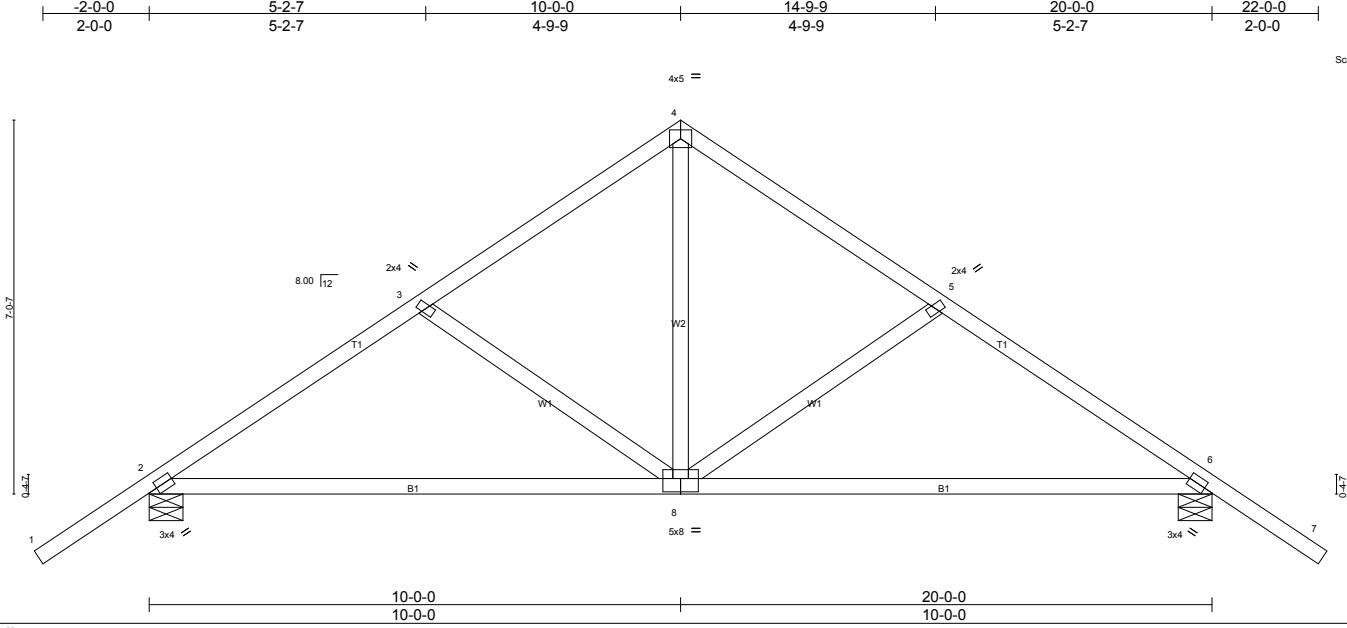


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [6:0-2-0,0-1-8], [8:0-4-0,0-3-0]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.56	Vert(LL) -0.18 6-8 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.74	Vert(TL) -0.33 6-8 >712 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(TL) 0.03 6 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 100 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=628/0-7-10 (min. 0-1-8), 6=628/0-7-10 (min. 0-1-8)  
 Max Horz 2=-218(LC 8)  
 Max Uplift 2=-290(LC 12), 6=-290(LC 13)  
 Max Grav 2=749(LC 2), 6=749(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1192/565, 3-4=-927/475, 4-5=-927/475, 5-6=-1192/565  
 BOT CHORD 2-8=-254/887, 6-8=-279/925  
 WEBS 4-8=-278/594, 5-8=-443/324, 3-8=-443/324

- NOTES** (8-10)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 6=290.
  - 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 SP, 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 2, 2013

Job 425247	Truss T03	Truss Type Common Truss	Qty 3	Ply 1	Job Reference (optional) 16252497
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:18 2013 Page 1  
 ID: C5eaM?9VfkFyOjQZLSNmz8yxC31-kl8VefmyJA5Sa6ihbGW7aU415vCKT1TLnXfhkSzzPpx

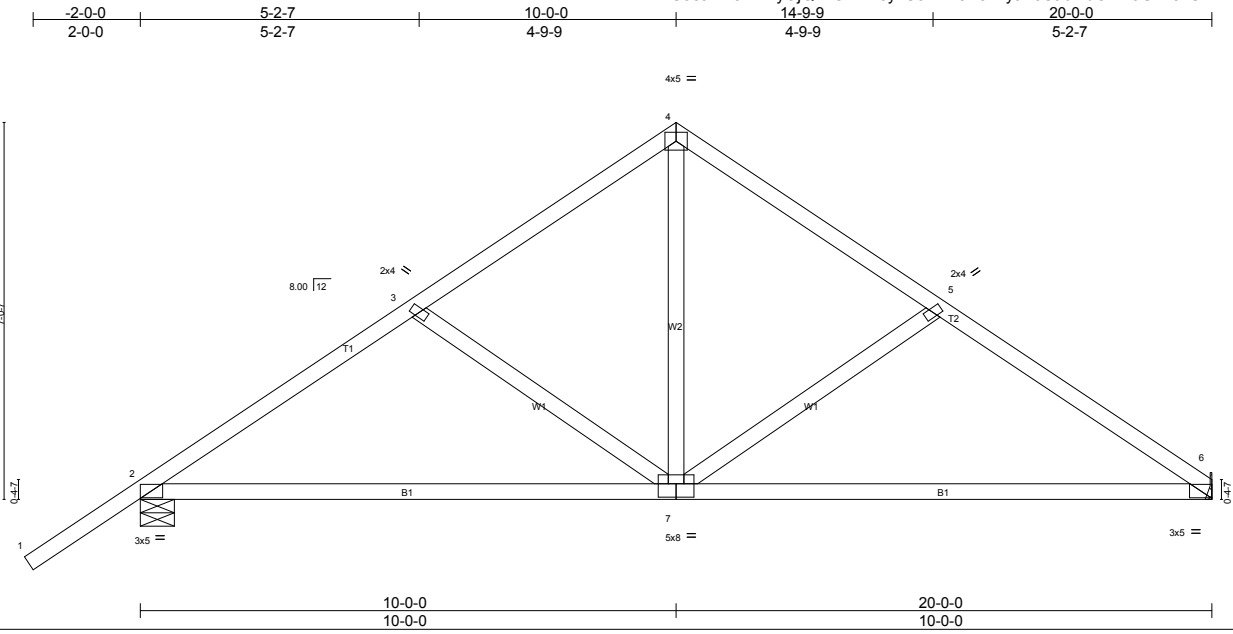


Plate Offsets (X,Y): [2:0-2-9,0-1-8], [6:0-2-9,0-1-8], [7:0-4-0,0-3-0]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.79	Vert(LL) -0.22 6-7 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.36	Vert(TL) -0.41 6-7 >577 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 6 n/a n/a		
	Code FBC2010/TPI2007			Weight: 96 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-13 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 6=523/Mechanical, 2=642/0-7-10 (min. 0-1-8)  
 Max Horz 2=244(LC 9)  
 Max Uplift 6=-227(LC 13), 2=-295(LC 12)  
 Max Grav 6=620(LC 2), 2=765(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1236/605, 3-4=-972/515, 4-5=-973/520, 5-6=-1261/634  
 BOT CHORD 2-7=-378/921, 6-7=-426/959  
 WEBS 4-7=-339/658, 5-7=-488/383, 3-7=-442/324

- NOTES** (8-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=227, 2=295.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson HTU26 to attach Truss to Carrying member

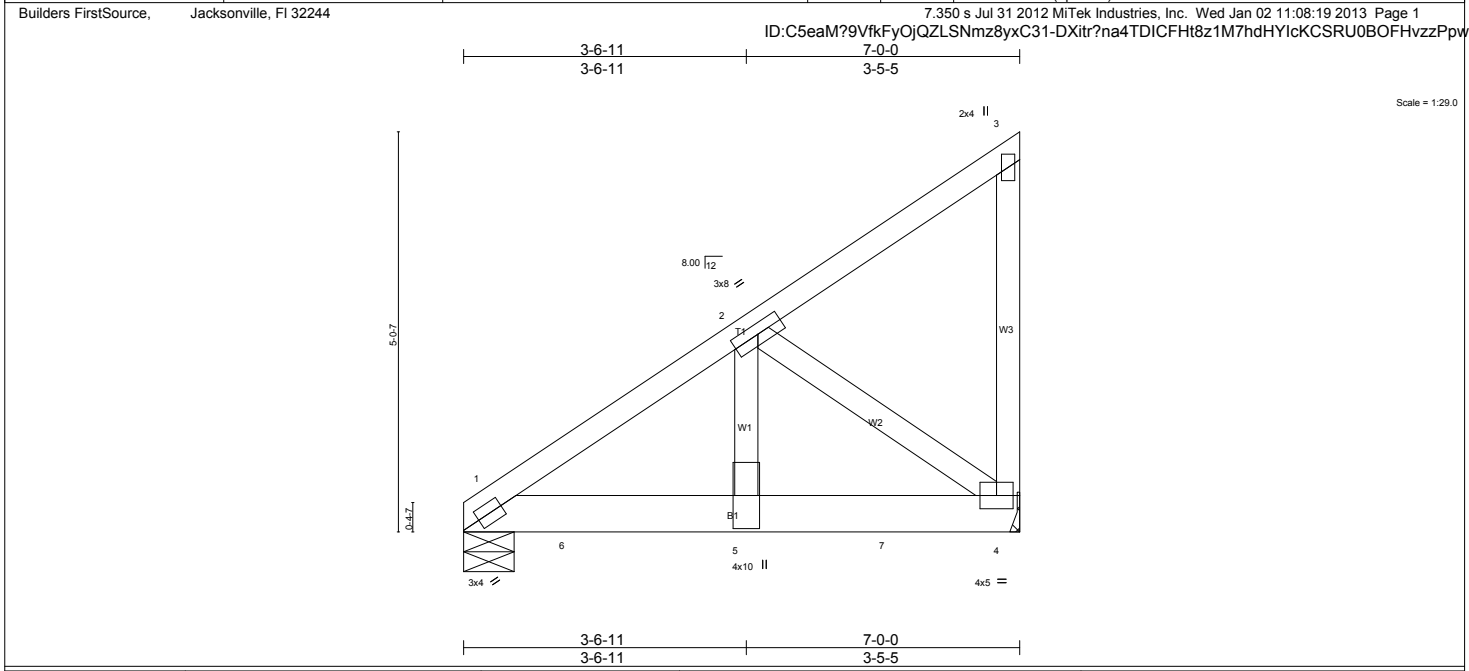
**LOAD CASE(S)** Standard



January 2, 2013

Job 425247	Truss T04	Truss Type Monopitch Truss	Qty 1	Ply 1	Job Reference (optional) 6252498
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:19 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-DXitr?na4TDICFHt8z1M7hdHYIcKCSRU0BOFHvzzPpw



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.19 BC 0.49 WB 0.50 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.02 4-5 >999 240 Vert(TL) -0.04 4-5 >999 180 Horz(TL) 0.01 4 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 44 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-0-15 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) 1=978/0-7-10 (min. 0-1-8), 4=914/Mechanical  
 Max Horz 1=197(LC 8)  
 Max Uplift 1=-390(LC 8), 4=-498(LC 8)  
 Max Grav 1=1162(LC 2), 4=1086(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1281/386  
 BOT CHORD 1-6=-463/1014, 5-6=-463/1014, 5-7=-463/1014, 4-7=-463/1014  
 WEBS 2-5=-440/1240, 2-4=-1243/568

- NOTES** (9-12)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); 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 100 lb uplift at joint(s) except (jt=1b) 1=390, 4=498.
  - 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) 610 lb down and 237 lb up at 1-4-12, and 610 lb down and 237 lb up at 3-4-12, and 610 lb down and 237 lb up at 5-4-12 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 SP, represents new lumber design values as per SPIIB.
  - 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  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-44, 1-4=-10  
 Concentrated Loads (lb)  
 Vert: 5=-513(B) 6=-513(B) 7=-513(B)



January 2, 2013

Job 425247	Truss T05	Truss Type Hip Truss	Qty 1	Ply 1	6252499
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Job Reference (optional)  
7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:21 2013 Page 1  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-9wpeGhoqc5T0RZQGG04qC6iU06EGgL0nTVtLLnzzPpu

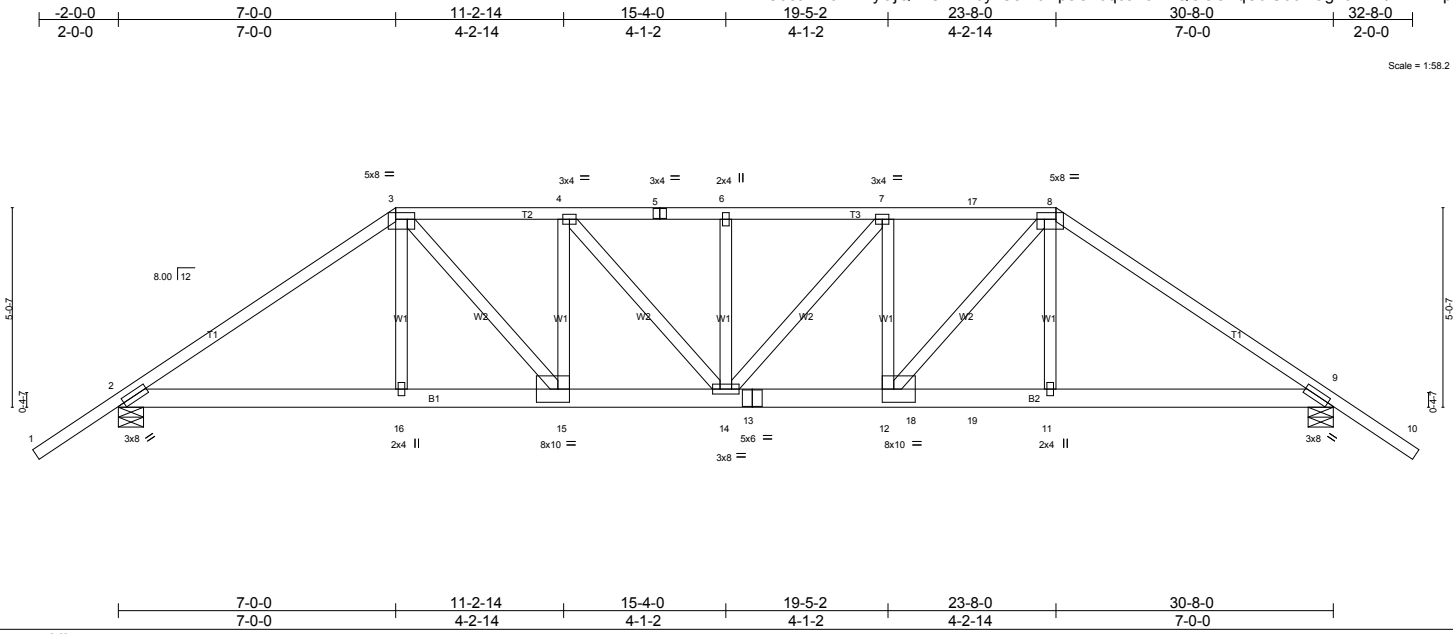


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [3:0-5-12,0-2-0], [8:0-5-12,0-2-0], [9:0-2-0,0-1-8], [12:0-3-8,0-4-0], [15:0-3-8,0-4-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.71	Vert(LL) 0.18 11-12 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.56	Vert(TL) -0.29 11-12 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.08 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 195 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SYP No.1 \*Except\*  
T3, T2: 2x4 SP No.2  
BOT CHORD 2x6 SYP No.2  
WEBS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-5-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-10-11 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=1324/0-7-10 (min. 0-1-14), 9=1821/0-7-10 (min. 0-2-9)  
Max Horz 2=152(LC 5)  
Max Uplift 2=672(LC 8), 9=1161(LC 9)  
Max Grav 2=1574(LC 2), 9=2163(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2260/1020, 3-4=-2548/1297, 4-5=-3063/1573, 5-6=-3063/1573, 6-7=-3063/1573,  
7-17=-3445/1865, 8-17=-3446/1865, 8-9=-3309/1839  
BOT CHORD 2-16=-869/1761, 15-16=-868/1764, 14-15=-1276/2548, 13-14=-1789/3445, 12-13=-1789/3445,  
12-18=-1399/2637, 18-19=-1399/2637, 11-19=-1399/2637, 9-11=-1393/2623  
WEBS 3-15=-745/1225, 4-15=-841/544, 4-14=-503/808, 7-14=-616/578, 7-12=-417/222, 8-12=-577/1260,  
8-11=-255/565

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=672, 9=1161.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 144 lb up at 21-7-4, and 166 lb down and 353 lb up at 23-8-0 on top chord, and 1076 lb down and 508 lb up at 20-0-12, and 50 lb down at 21-7-4, and 249 lb down and 218 lb up at 23-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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

Continued on page 2



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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, D58-89 and BCS11 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	Job Reference (optional)
425247	T05	Hip Truss	1	1	

16252499

Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:21 2013 Page 2  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=-44, 3-8=-44, 8-10=-44, 2-9=-10

Concentrated Loads (lb)

Vert: 8=-136(F) 11=-180(F) 17=-70(F) 18=-904(F) 19=-21(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

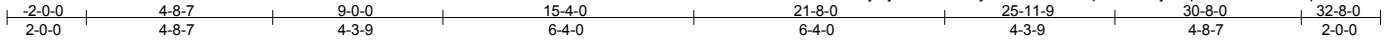
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral 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 BCS11 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 425247	Truss T06	Truss Type Hip Truss	Qty 1	Ply 1	16252500
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:22 2013 Page 1

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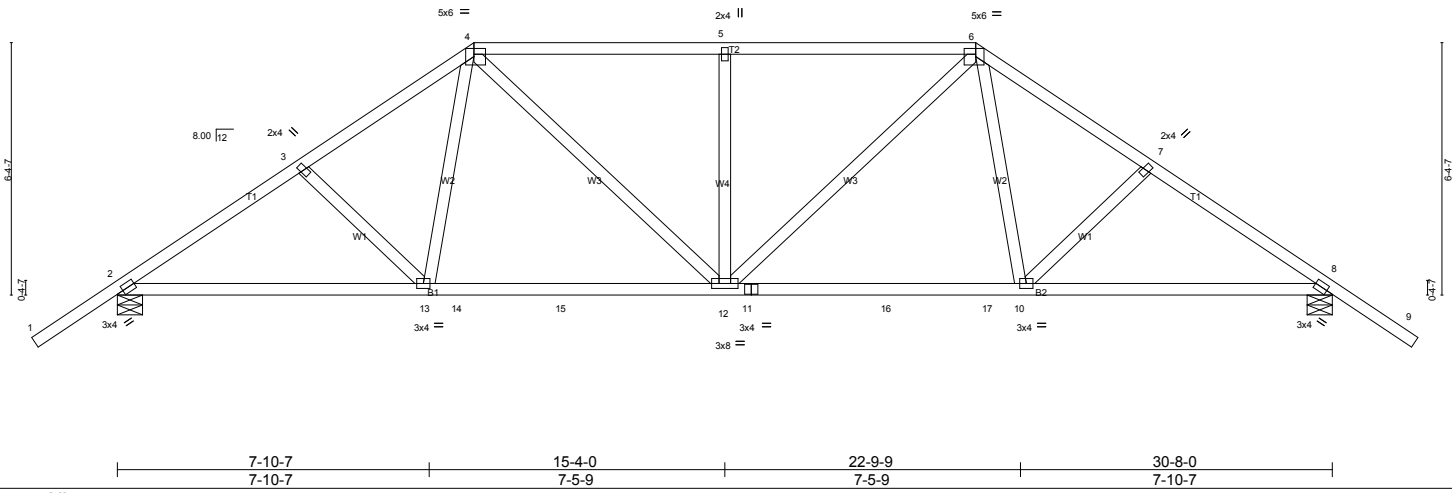


Plate Offsets (X, Y): [2:0-2-0,0-1-8], [4:0-3-8,0-1-12], [6:0-3-8,0-1-12], [8:0-2-0,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.50	Vert(LL) 0.11 12-13 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.42	Vert(TL) -0.19 12-13 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 8 n/a n/a		
	Code FBC2010/TPI2007			Weight: 168 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-2-15 oc bracing.
WEBS 2x4 SP No.3	

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

**REACTIONS** (lb/size) 2=995/0-7-10 (min. 0-1-12), 8=995/0-7-10 (min. 0-1-12)  
 Max Horz 2=198(LC 9)  
 Max Uplift 2=-371(LC 12), 8=-371(LC 13)  
 Max Grav 2=1090(LC 2), 8=1090(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1955/1027, 3-4=-1780/999, 4-5=-1674/1063, 5-6=-1674/1063, 6-7=-1779/999, 7-8=-1955/1027  
 BOT CHORD 2-13=-618/1475, 13-14=-445/1204, 14-15=-445/1204, 12-15=-445/1204, 11-12=-457/1221, 11-16=-457/1221, 16-17=-457/1221, 10-17=-457/1221, 8-10=-658/1535  
 WEBS 3-13=-343/248, 4-13=-121/385, 4-12=-266/406, 5-12=-413/397, 6-12=-266/406, 6-10=-120/385, 7-10=-342/248

**NOTES** (9-11)  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 3) Provide adequate drainage to prevent water ponding.  
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 2=371, 8=371.  
 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 SP, 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



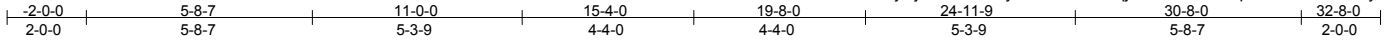
**LOAD CASE(S)** Standard

January 2, 2013

Job 425247	Truss T07	Truss Type Hip Truss	Qty 1	Ply 1	16252501
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:24 2013 Page 1

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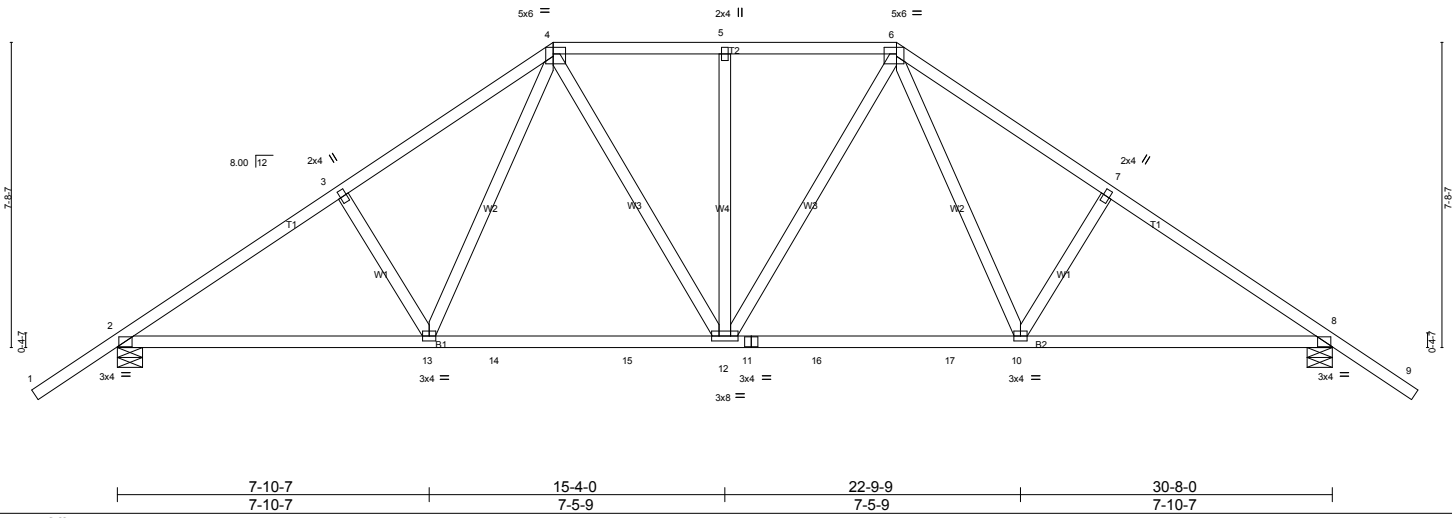


Plate Offsets (X, Y): [2:0-2-0,0-1-10], [4:0-3-12,0-2-0], [6:0-3-12,0-2-0], [8:0-2-0,0-1-10]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.51	Vert(LL) -0.12 12-13 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.35	Vert(TL) -0.20 12-13 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 8 n/a n/a		
	Code FBC2010/TPI2007			Weight: 176 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-5-3 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=1018/0-7-10 (min. 0-1-13), 8=1018/0-7-10 (min. 0-1-13)  
 Max Horz 2=240(LC 9)  
 Max Uplift 2=-388(LC 12), 8=-388(LC 13)  
 Max Grav 2=1090(LC 2), 8=1090(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2053/1001, 3-4=-1949/1051, 4-5=-1511/911, 5-6=-1511/911, 6-7=-1949/1051, 7-8=-2053/1001  
 BOT CHORD 2-13=-596/1558, 13-14=-346/1152, 14-15=-346/1152, 12-15=-346/1152, 11-12=-352/1162, 11-16=-352/1162, 16-17=-352/1162, 10-17=-352/1162, 8-10=-627/1605  
 WEBS 3-13=-437/340, 4-13=-262/566, 4-12=-183/288, 5-12=-251/234, 6-12=-184/288, 6-10=-262/566, 7-10=-437/340

- NOTES** (9-11)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 2=388, 8=388.
  - 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 SP, 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 2, 2013

**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 BCS11 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 425247	Truss T08	Truss Type Hip Truss	Qty 1	Ply 1	16252502
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:25 2013 Page 1  
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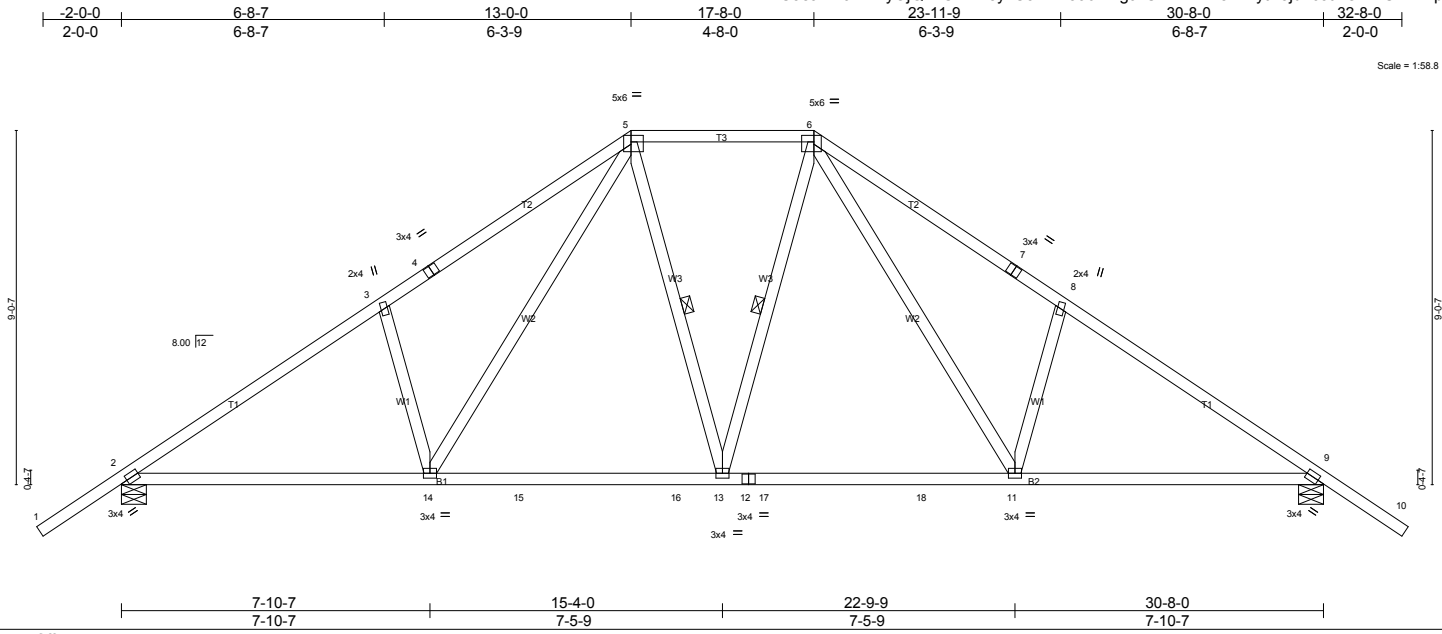


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [5:0-3-12,0-2-0], [6:0-3-12,0-2-0], [9:0-2-0,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.77	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.58	Vert(LL) -0.13 13-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Vert(TL) -0.22 9-11 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.06 9 n/a n/a		
				Weight: 175 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-8-2 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-13, 6-13

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

**REACTIONS** (lb/size) 2=1037/0-7-10 (min. 0-1-15), 9=1037/0-7-10 (min. 0-1-15)  
 Max Horz 2=-283(LC 8)  
 Max Uplift 2=-401(LC 12), 9=-401(LC 13)  
 Max Grav 2=1090(LC 2), 9=1090(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2139/968, 3-4=-2167/1120, 4-5=-2078/1147, 5-6=-1416/818, 6-7=-2078/1147, 7-8=-2167/1120, 8-9=-2139/968  
 BOT CHORD 2-14=-560/1622, 14-15=-239/1102, 15-16=-239/1102, 13-16=-239/1102, 12-13=-242/1105, 12-17=-242/1105, 17-18=-242/1105, 11-18=-242/1105, 9-11=-586/1660  
 WEBS 3-14=-570/449, 5-14=-449/803, 6-11=-449/803, 8-11=-570/449

- NOTES** (9-11)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 2=401, 9=401.
  - 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 SP, 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss T09	Truss Type Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6252503
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:27 2013 Page 1  
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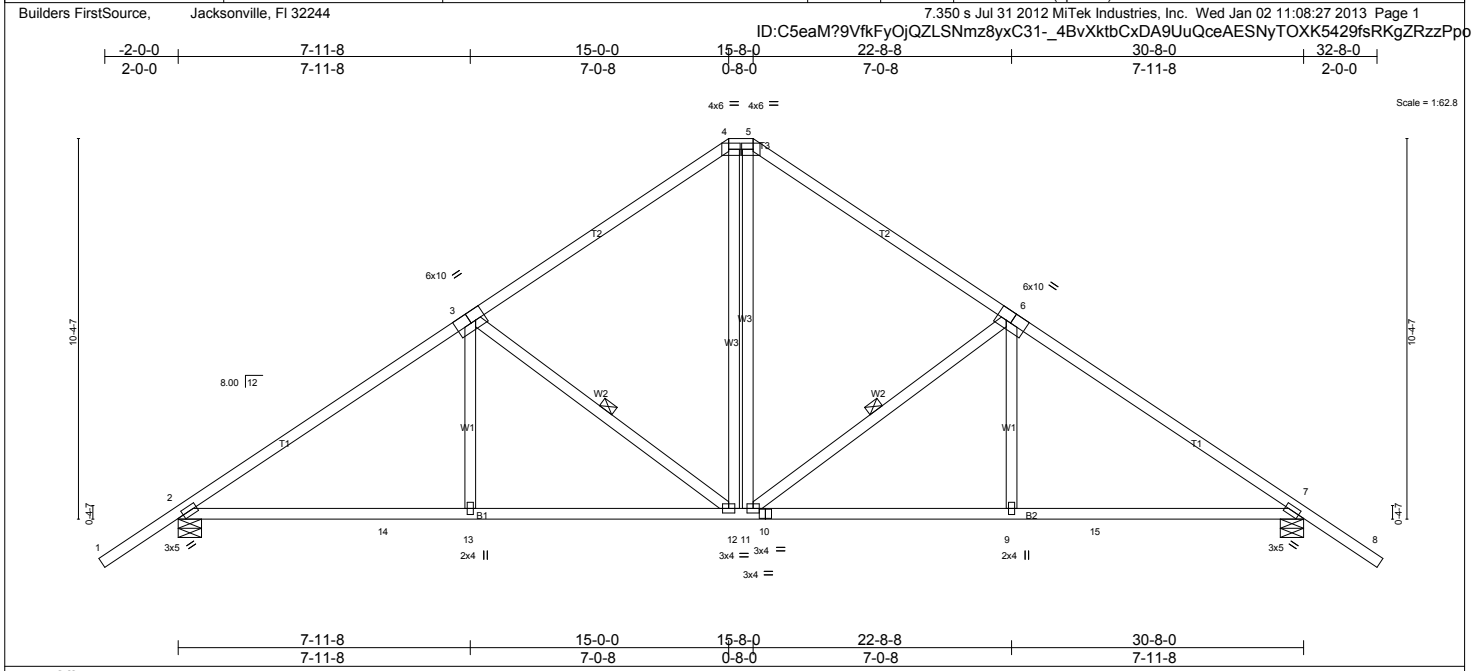


Plate Offsets (X, Y): [2-0-2-0,0-1-8], [3-0-5-0,Edge], [4-0-3-12,0-2-0], [5-0-3-12,0-2-0], [6-0-5-0,Edge], [7-0-2-0,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.56	Vert(LL) -0.14 7-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Vert(TL) -0.24 7-9 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.07 7 n/a n/a		
				Weight: 178 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SYP M 31	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-10-12 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-12, 6-11

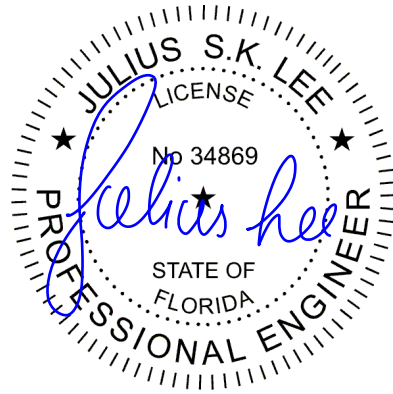
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=985/0-7-10 (min. 0-1-14), 7=985/0-7-10 (min. 0-1-14)  
 Max Horz 2=-325(LC 10)  
 Max Uplift 2=-412(LC 12), 7=-412(LC 13)  
 Max Grav 2=1090(LC 2), 7=1090(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2065/926, 3-4=-1496/812, 4-5=-1241/787, 5-6=-1496/812, 6-7=-2065/926  
 BOT CHORD 2-14=-510/1551, 13-14=-510/1551, 12-13=-510/1552, 11-12=-126/911, 10-11=-530/1583,  
 9-10=-530/1583, 9-15=-531/1582, 7-15=-531/1582  
 WEBS 3-12=-844/506, 4-12=-277/524, 5-11=-277/524, 6-11=-843/506

- NOTES** (9-11)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCFL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 2=412, 7=412.
  - 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 SP, represents new lumber design values as per SPIIB.
  - 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 2, 2013

Job 425247	Truss T10	Truss Type Common Truss	Qty 2	Ply 1	Job Reference (optional) 6252504
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:28 2013 Page 1  
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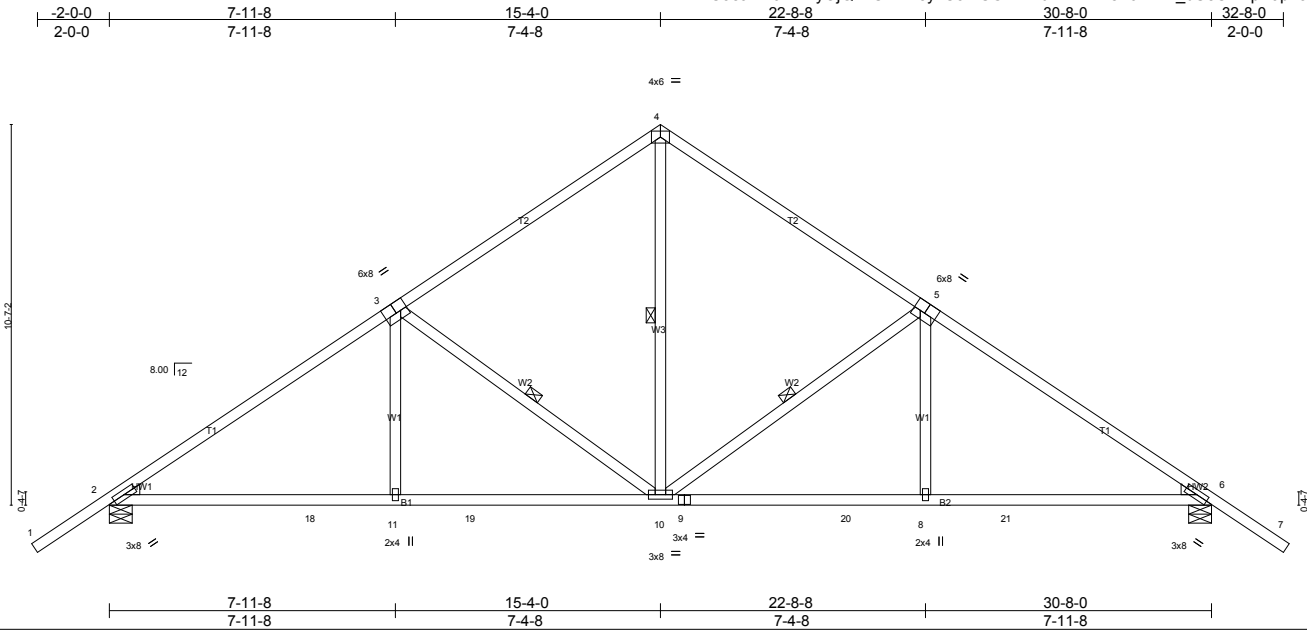


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [3:0-4-0,Edge], [5:0-4-0,Edge], [6:0-2-0,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFLL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.46	Vert(LL) 0.10 10 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.41	Vert(TL) -0.17 10-11 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.06 6 n/a n/a		
	Code FBC2010/TPI2007			Weight: 165 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10, 5-10, 3-10
WEDGE Left: 2x4 SYP No.3, Right: 2x4 SYP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=1053/0-7-10 (min. 0-2-0), 6=1053/0-7-10 (min. 0-2-0)  
 Max Horz 2=330(LC 10)  
 Max Uplift 2=-415(LC 12), 6=-415(LC 13)  
 Max Grav 2=1119(LC 21), 6=1119(LC 22)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2176/937, 3-4=-1575/814, 4-5=-1574/814, 5-6=-2176/937  
 BOT CHORD 2-18=-991/2627, 11-18=-534/1676, 11-19=-534/1679, 10-19=-534/1679, 9-10=-537/1684,  
 9-20=-537/1684, 8-20=-537/1684, 8-21=-538/1682, 6-21=-1035/2693  
 WEBS 4-10=-547/1095, 5-10=-872/510, 3-10=-872/510

- NOTES** (8-10)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=415, 6=415.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss T11	Truss Type COMMON TRUSS	Qty 1	Ply 3	Job Reference (optional) 6252505
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:31 2013 Page 1

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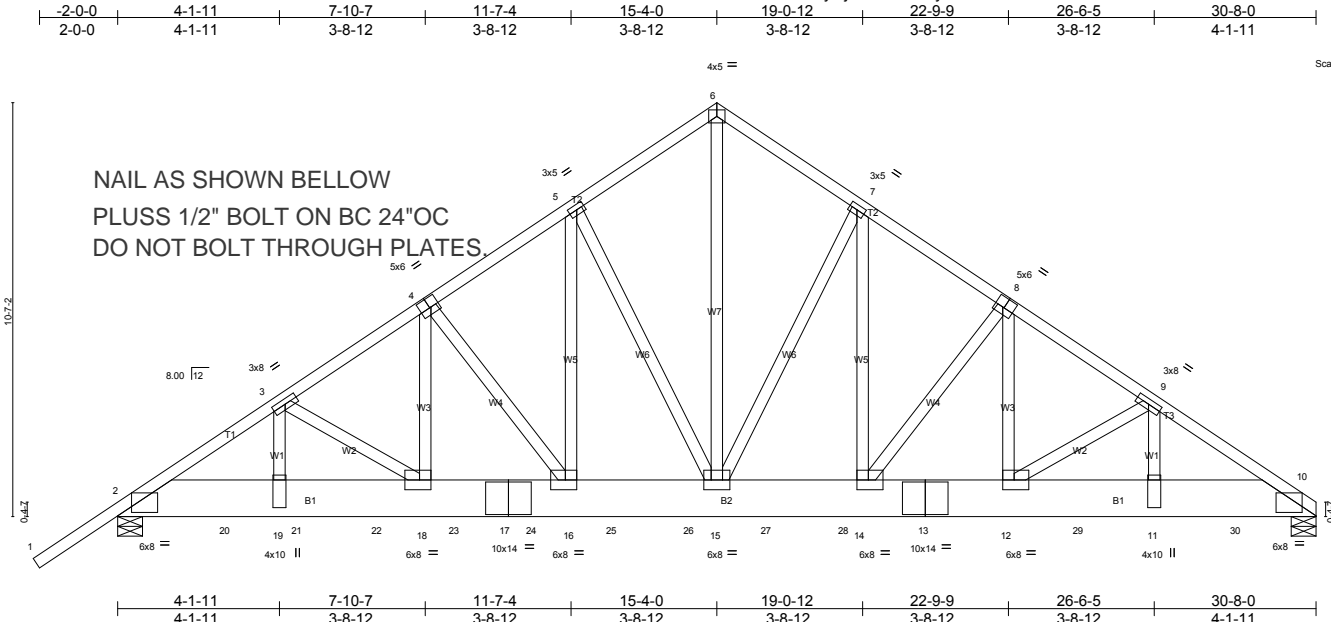


Plate Offsets (X,Y): [2:0-4-0,0-1-9], [4:0-3-0,0-3-0], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-3-0,0-3-0], [9:0-0-0,0-0-0], [10:0-4-0,0-1-9], [11:0-8-8,0-2-0], [12:0-3-8,0-3-0], [13:0-0-0,0-0-0], [14:0-3-8,0-3-0], [16:0-3-8,0-3-0], [18:0-3-8,0-3-0], [19:0-8-8,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.00	BC 0.71	Vert(LL) -0.08 16 >999 360		
BCLL 0.0 *	Lumber Increase 1.00	WB 0.62	Vert(TL) -0.16 16-18 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 10 n/a n/a		
	Code FBC2010/TPI2007		Wind(LL) 0.06 18 >999 240		
				Weight: 931 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x12 SYP 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 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=6808/0-7-10 (min. 0-2-11), 10=3270/0-7-10 (min. 0-1-8)  
Max Horz 2=354(LC 5)  
Max Uplift 2=-2688(LC 8), 10=-555(LC 9)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-8313/2833, 3-4=-5842/1577, 4-5=-4359/1067, 5-6=-3459/860, 6-7=-3458/856, 7-8=-3968/836, 8-9=-4668/875, 9-10=-4938/838  
BOT CHORD 2-20=-2475/6941, 19-20=-2475/6941, 19-21=-2475/6941, 21-22=-2475/6941, 18-22=-2475/6941, 18-23=-1298/4821, 17-23=-1298/4821, 17-24=-1298/4821, 16-24=-1298/4821, 16-25=-766/3585, 25-26=-766/3585, 15-26=-766/3585, 15-27=-509/3260, 27-28=-509/3260, 14-28=-509/3260, 13-14=-582/3842, 12-13=-582/3842, 12-29=-645/4101, 11-29=-645/4101, 11-30=-645/4101, 10-30=-645/4101  
WEBS 6-15=-836/3601, 7-15=-963/239, 7-14=-75/1124, 8-14=-1001/233, 8-12=-80/1139, 9-12=-345/106, 9-11=-188/278, 5-15=-1663/671, 5-16=-590/1838, 4-16=-2077/893, 4-18=-869/2319, 3-18=-3219/1408, 3-19=-1347/3248

- NOTES** (13-15)
- Special connection required to distribute bottom chord loads equally between all plies.
  - 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x12 - 6 rows staggered at 0-4-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Concentrated loads from layout are not present in Load Case(s): #3 IBC BC Live; #4 MWFRS Wind Left; #5 MWFRS Wind Right; #6 MWFRS Wind Left Positive; #7 MWFRS Wind Right Positive; #8 MWFRS 1st Wind Parallel; #9 MWFRS 2nd Wind Parallel; #10 MWFRS 3rd Wind Parallel; #11 MWFRS 4th Wind Parallel; #12 MWFRS 1st Wind Parallel Positive; #13 MWFRS 2nd Wind Parallel Positive; #18 MWFRS Wind Left Positive + Regular; #19 MWFRS Wind Right Positive + Regular; #20 MWFRS 1st Wind Parallel Positive + Regular; #21 MWFRS 2nd Wind Parallel Positive + Regular.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=2688, 10=555.
  - \*Semi-rigid pitchbreaks including heels\* Member end fixity model was used in the analysis and design of this truss.



Continued on page 2

January 2, 2013

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

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
425247	T11	COMMON TRUSS	1	3	

16252505

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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:31 2013 Page 2  
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**NOTES** (13-15)

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5835 lb down and 2476 lb up at 2-9-12, 346 lb down at 4-8-0, 346 lb down at 6-8-0, 346 lb down at 8-8-0, 346 lb down at 10-8-0, 346 lb down at 12-8-0, 346 lb down at 14-8-0, 346 lb down at 16-8-0, 346 lb down at 18-8-0, 346 lb down at 20-8-0, 346 lb down at 22-8-0, 390 lb down at 24-8-0, and 390 lb down at 26-8-0, and 390 lb down at 28-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 SP, 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

1) Regular: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 12=-281(B) 11=-317(B) 13=-281(B) 20=-4591(B) 21=-281(B) 22=-281(B) 23=-281(B) 24=-281(B) 25=-281(B) 26=-281(B) 27=-281(B) 28=-281(B) 29=-317(B) 30=-317(B)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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

Job 425247	Truss T12	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional) 6252506
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:31 2013 Page 1

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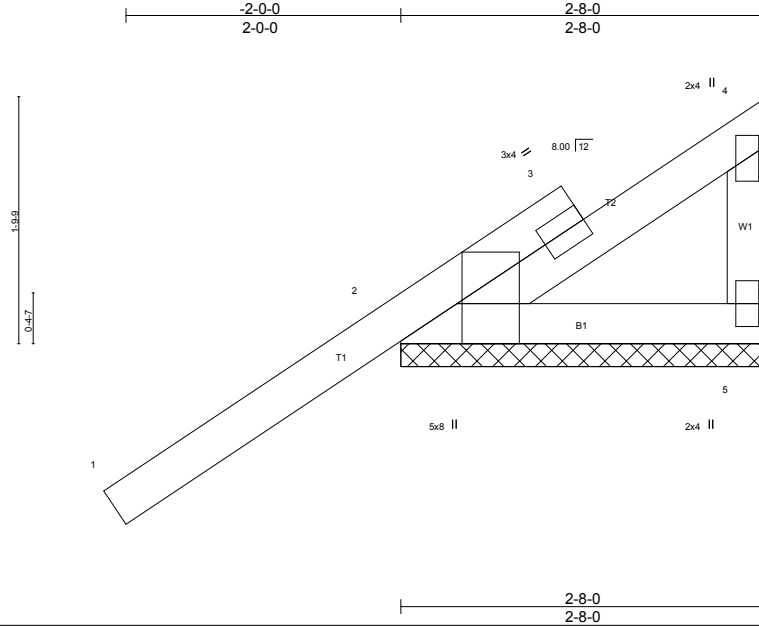


Plate Offsets (X,Y): [2-0-3-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.50	Vert(LL) 0.02 1 n/r 120	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.06	Vert(TL) 0.01 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 16 lb FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

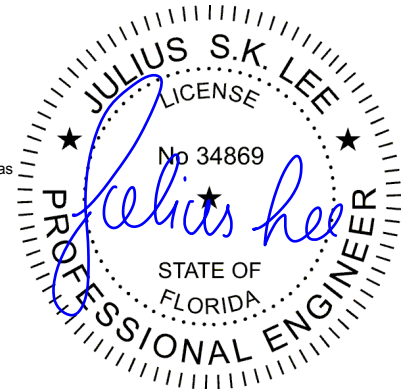
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=197/2-8-0 (min. 0-1-8), 5=30/2-8-0 (min. 0-1-8)  
 Max Horz 2=158(LC 12)  
 Max Uplift 2=-189(LC 12), 5=-26(LC 2)  
 Max Grav 2=239(LC 2), 5=75(LC 10)

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

- NOTES** (10-12)
- Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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
  - 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=189.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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 2, 2013

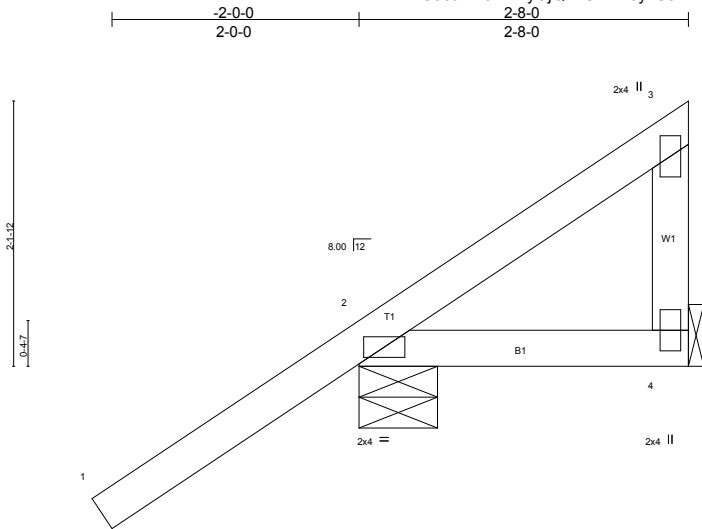
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and 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 BCS11 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 425247	Truss T13	Truss Type Monopitch Truss	Qty 3	Ply 1	Job Reference (optional) 6252507
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:32 2013 Page 1  
 ID: C5eaM?9VfkFyOjQZLSNmz8yx31-K1\_oaSxk0TsSFFmNPCmP9QfPTY9MIRWP?j2REzzPp

Builders FirstSource, Jacksonville, FL 32244



Scale = 1:18.7

<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.63 BC 0.04 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2-4 >999 240 Vert(TL) -0.00 2-4 >999 180 Horz(TL) 0.00 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 15 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 2-8-0 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) 4=2/Mechanical, 2=222/0-7-10 (min. 0-1-8)  
 Max Horz 2=121(LC 12)  
 Max Uplift 4=-13(LC 12), 2=-113(LC 12)  
 Max Grav 4=76(LC 10), 2=271(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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCCL=3.0psf; h=26ft; Cat. II; Exp D; 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) 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=113.
  - 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 SP, 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



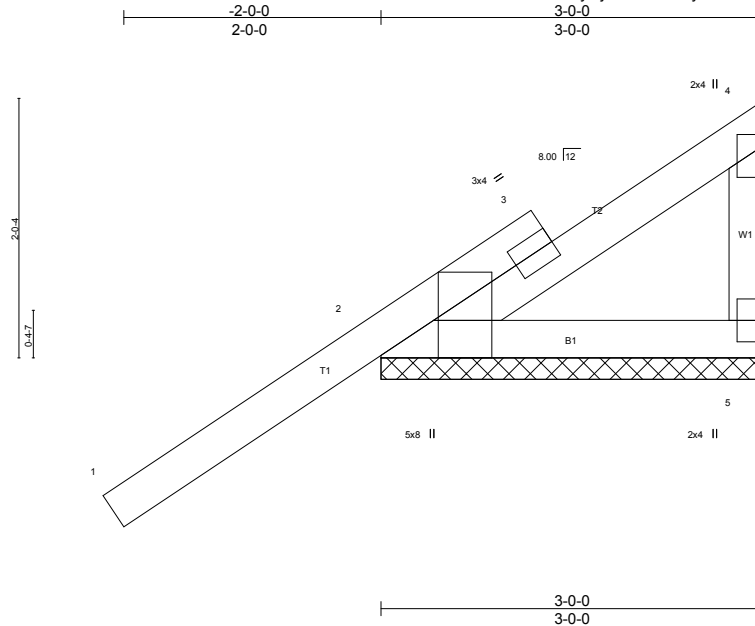
January 2, 2013

Job 425247	Truss T14	Truss Type GABLE	Qty 2	Ply 1	Job Reference (optional) 6252508
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:33 2013 Page 1

ID:C5eaM?9VfkFyOjZLSNmz8yxC31-oDYAonxMnn\_JtPLZzvHeheCcCyU6UumYENn\_m5zzPoi



Scale = 1:17.9

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

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.50	Vert(LL) 0.02 1 n/r 120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.07	Vert(TL) 0.01 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 17 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 3-0-0 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.

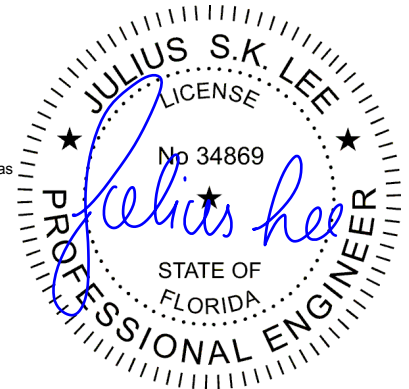
**REACTIONS** (lb/size) 2=202/3-0-0 (min. 0-1-8), 5=44/3-0-0 (min. 0-1-8)  
 Max Horz 2=172(LC 12)  
 Max Uplift 2=-186(LC 12), 5=-46(LC 21)  
 Max Grav 2=245(LC 2), 5=88(LC 21)

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

**NOTES** (10-12)

- Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=186.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 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.
- Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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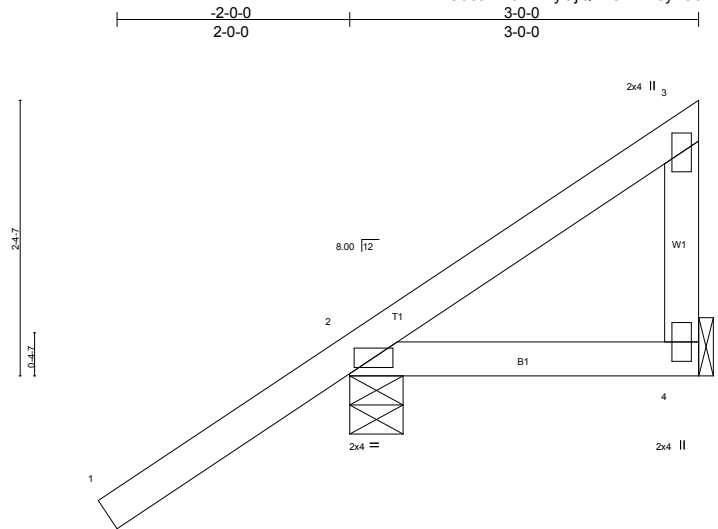
Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 425247	Truss T15	Truss Type Monopitch Truss	Qty 8	Ply 1	Job Reference (optional)	16252509
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:33 2013 Page 1  
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Builders FirstSource, Jacksonville, FL 32244



Scale = 1:19.8

<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.59 BC 0.06 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2-4 >999 240 Vert(TL) -0.00 2-4 >999 180 Horz(TL) 0.00 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 16 lb FT = 20%
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**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 3-0-0 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) 4=26/Mechanical, 2=217/0-5-8 (min. 0-1-8)  
 Max Horz 2=131(LC 12)  
 Max Uplift 4=31(LC 12), 2=105(LC 12)  
 Max Grav 4=83(LC 10), 2=264(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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCCL=3.0psf; h=26ft; Cat. II; Exp D; 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) 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=105.
  - 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 SP, 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 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 425247	Truss T16	Truss Type GABLE	Qty 1	Ply 1	16252510
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:34 2013 Page 1  
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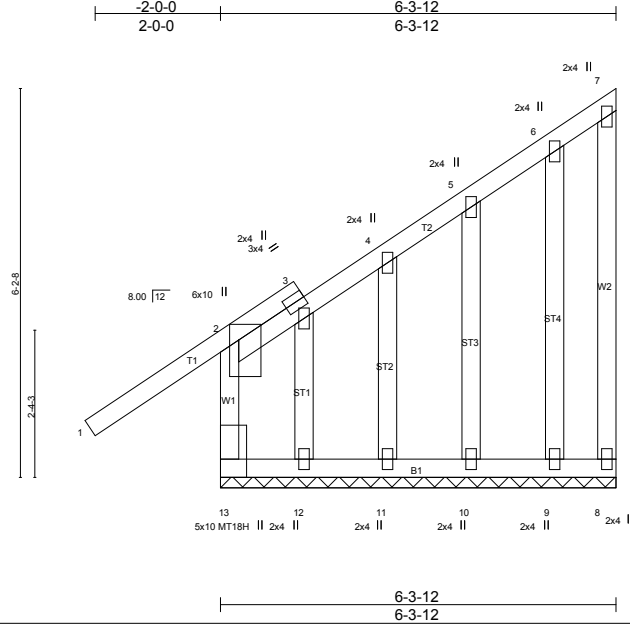


Plate Offsets (X,Y): [2:0-3-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.82	Vert(LL) 0.02 1 n/r 120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.64	Vert(TL) -0.00 2 n/r 120	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(TL) -0.00 8 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 59 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W2: 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
OTHERS 2x4 SP No.3	

**REACTIONS** All bearings 6-3-12.  
 (lb) - Max Horz 13=263(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) except 13--171(LC 10), 8--133(LC 12), 12--328(LC 12), 11--147(LC 12), 10--100(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 8, 12, 11, 10, 9 except 13=277(LC 23)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3--261/215, 3-4--279/250  
 WEBS 4-11--301/303

- NOTES** (12-14)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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) 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.
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 6) Gable studs spaced at 1-4-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 13, 133 lb uplift at joint 8, 328 lb uplift at joint 12, 147 lb uplift at joint 11 and 100 lb uplift at joint 10.
  - 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 SP, 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



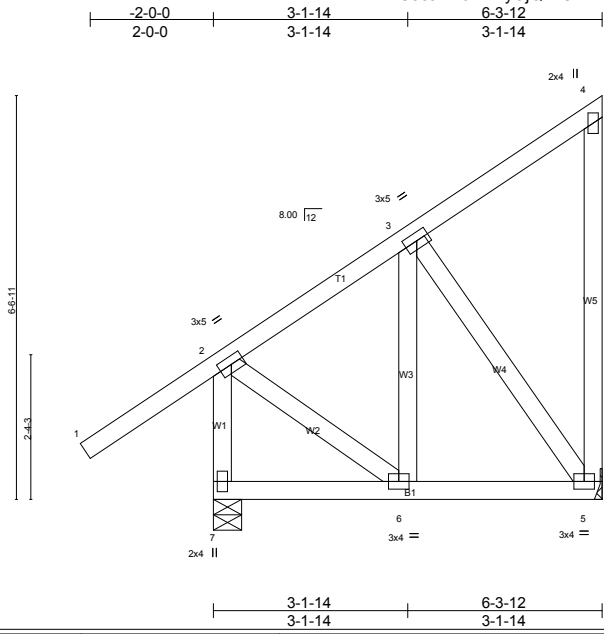
January 2, 2013

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

Job 425247	Truss T17	Truss Type Monopitch Truss	Qty 3	Ply 1	Job Reference (optional) 6252511
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:35 2013 Page 1  
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Scale = 1:37.4

<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.59 BC 0.13 WB 0.17 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.01 6-7 >999 240 Vert(TL) 0.01 6-7 >999 180 Horz(TL) -0.00 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 54 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W1: 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 8-10-5 oc bracing.

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

**REACTIONS** (lb/size) 5=144/Mechanical, 7=279/0-5-8 (min. 0-1-8)  
 Max Horz 7=213(LC 9)  
 Max Uplift 5=234(LC 9), 7=-75(LC 8)  
 Max Grav 5=173(LC 21), 7=335(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-7=-336/357  
 BOT CHORD 6-7=-426/342, 5-6=-303/190  
 WEBS 3-6=-376/142, 3-5=-323/514

- NOTES** (7-10)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; 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 234 lb uplift at joint 5 and 75 lb uplift at joint 7.
  - 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 SP, 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
  - 10) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



January 2, 2013

Job	Truss	Truss Type	Qty	Ply	6252512
425247	T18	GABLE	1	1	

Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:38 2013 Page 1  
 ID: C5eaM?9VfkFyOjQZLSNmz8yxC31-9BL3rV?VcJcc\_AEXmStpOhvRMz8r\_yHNeVIRIzzPd

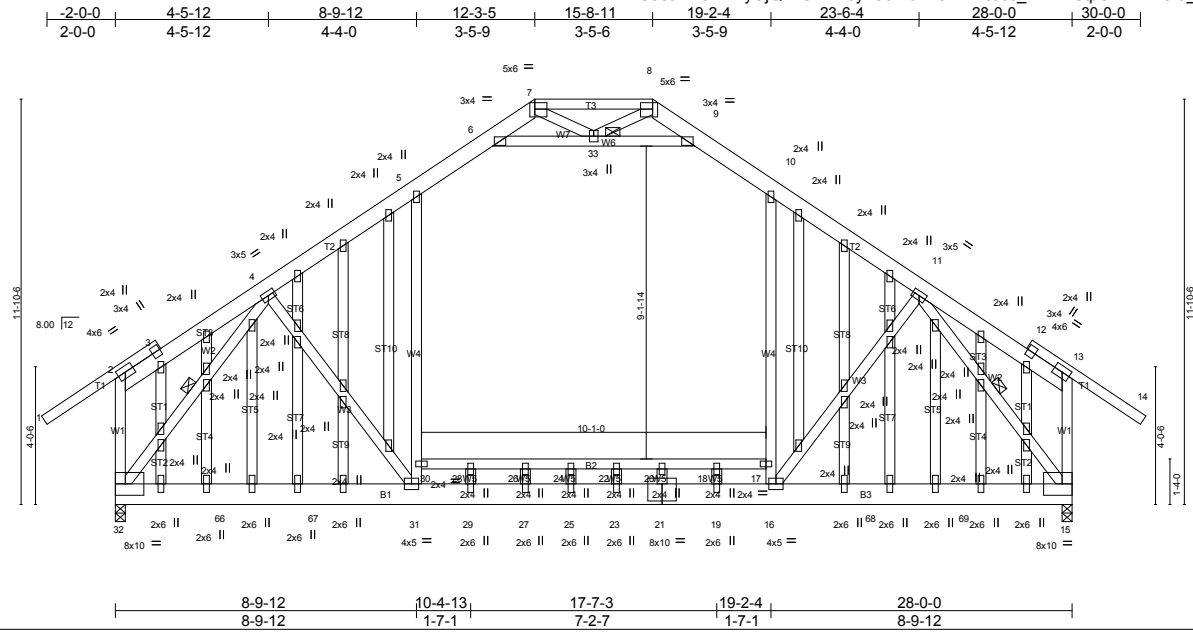
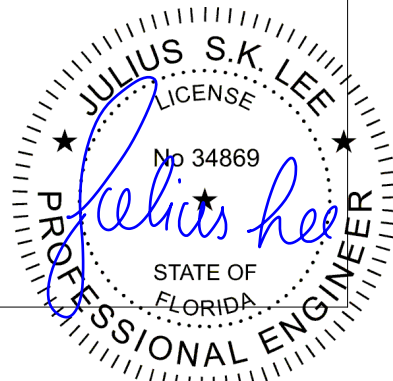


Plate Offsets (X, Y): [2:0-2-14.0-2-0], [7:0-4-4.0-2-4], [8:0-4-4.0-2-4], [13:0-2-14.0-2-0], [21:0-5-0.0-6-0]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.60	Vert(LL) 0.18 31-32 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL) -0.33 22-24 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(TL) 0.02 15 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Attic -0.10 17-30 1189 360	Weight: 379 lb	FT = 20%

<b>LUMBER</b>	<b>TOP CHORD</b> 2x4 SP No.2 *Except* T2: 2x6 SYP No.2	<b>BOT CHORD</b> 2x8 SYP DSS *Except* B2: 2x4 SP No.2	<b>WEBS</b> 2x4 SP No.3 *Except* W6, W1: 2x4 SP No.2	<b>OTHERS</b> 2x4 SP No.3
<b>REACTIONS</b>	(lb/size) 15=1526/0-3-8 (min. 0-2-7), 32=1526/0-3-8 (min. 0-2-7) Max Horz 32=323(LC 9) Max Uplift 15=385(LC 13), 32=385(LC 12)	<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	<b>NOTES</b>

**BRACING**  
**TOP CHORD** Structural wood sheathing directly applied or 4-10-7 oc purlins, except end verticals.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 17-30  
**WEBS** 1 Row at midpt 4-32, 11-15  
**JOINTS** 1 Brace at Jt(s): 33  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- NOTES** (14-16)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=26ft; Cat. II; Exp D; 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
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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 BCCL = 5.0psf.
  - Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-33, 9-33; Wall dead load (5.0psf) on member(s). 5-30, 10-17
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 28-30, 26-28, 24-26, 22-24, 20-22, 18-20, 17-18
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 15 and 385 lb uplift at joint 32.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Attic room checked for L/360 deflection.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



January 2, 2013

Job 425247	Truss T18	Truss Type GABLE	Qty 1	Ply 1	16252512 Job Reference (optional)
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:39 2013 Page 2  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-dNvR2r07NdkTbKpjJAO2xvSc6MU4uRBQclEI\_kzzPpc

LOAD CASE(S) Standard



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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	
425247	T19	ATTIC TRUSS	2	1	16252513

Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:41 2013 Page 1  
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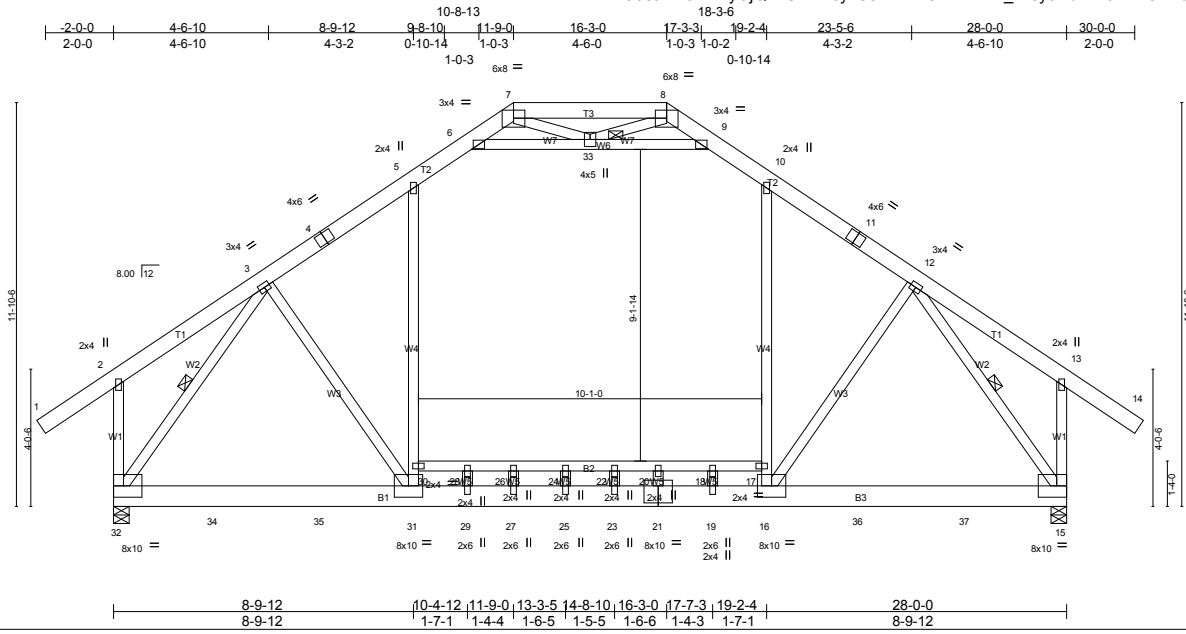


Plate Offsets (X,Y):	[7:0-4-0,0-2-13], [8:0-4-0,0-2-13], [21:0-5-0,0-6-0]				
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(LL) -0.15 22-24 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Vert(TL) -0.28 22-24 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.02 15 n/a n/a		
			Attic -0.10 17-30 1246 360	Weight: 290 lb	FT = 20%

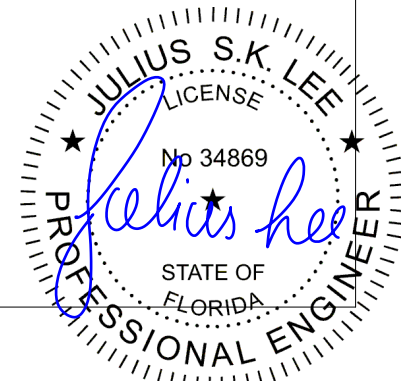
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x6 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.
BOT CHORD 2x8 SYP DSS *Except	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
B2: 2x4 SP No.2	6-0-0 oc bracing: 17-30
WEBS 2x4 SP No.3 *Except	1 Row at midpt 3-32, 12-15
W1: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 33

**REACTIONS** (lb/size) 32=1544/0-5-8 (min. 0-2-7), 15=1544/0-5-8 (min. 0-2-7)  
 Max Horz 32=252(LC 9)  
 Max Uplift 32=-145(LC 12), 15=-145(LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-181/284, 3-4=-1886/444, 4-5=-1795/454, 5-6=-1489/514, 6-7=-244/298, 7-8=-147/256,  
 8-9=-244/298, 9-10=-1488/514, 10-11=-1795/454, 11-12=-1886/444, 12-13=-181/284,  
 2-32=-415/473, 13-15=-415/473  
 BOT CHORD 32-34=-141/1182, 34-35=-141/1182, 31-35=-141/1182, 29-31=-26/1345, 27-29=-26/1345,  
 25-27=-26/1345, 23-25=-26/1345, 21-23=-26/1345, 19-21=-26/1345, 16-19=-26/1345,  
 16-36=-140/1181, 36-37=-140/1181, 15-37=-140/1181  
 WEBS 3-31=-71/473, 30-31=-12/429, 5-30=-2/576, 6-33=-1831/413, 9-33=-1831/413, 16-17=-11/432,  
 10-17=-2/577, 12-16=-71/473, 3-32=-2089/255, 12-15=-2088/255

- NOTES** (12-14)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
  - 6) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-33, 9-33; Wall dead load (5.0psf) on member(s).5-30, 10-17
  - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 28-30, 26-28, 24-26, 22-24, 20-22, 18-20, 17-18
  - 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 145 lb uplift at joint 32 and 145 lb uplift at joint 15.
  - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Attic room checked for L/360 deflection.
  - 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 SP, 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 2, 2013

Job 425247	Truss T20	Truss Type PIGGYBACK ATTIC	Qty 1	Ply 3	Job Reference (optional) 6252514
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:44 2013 Page 1  
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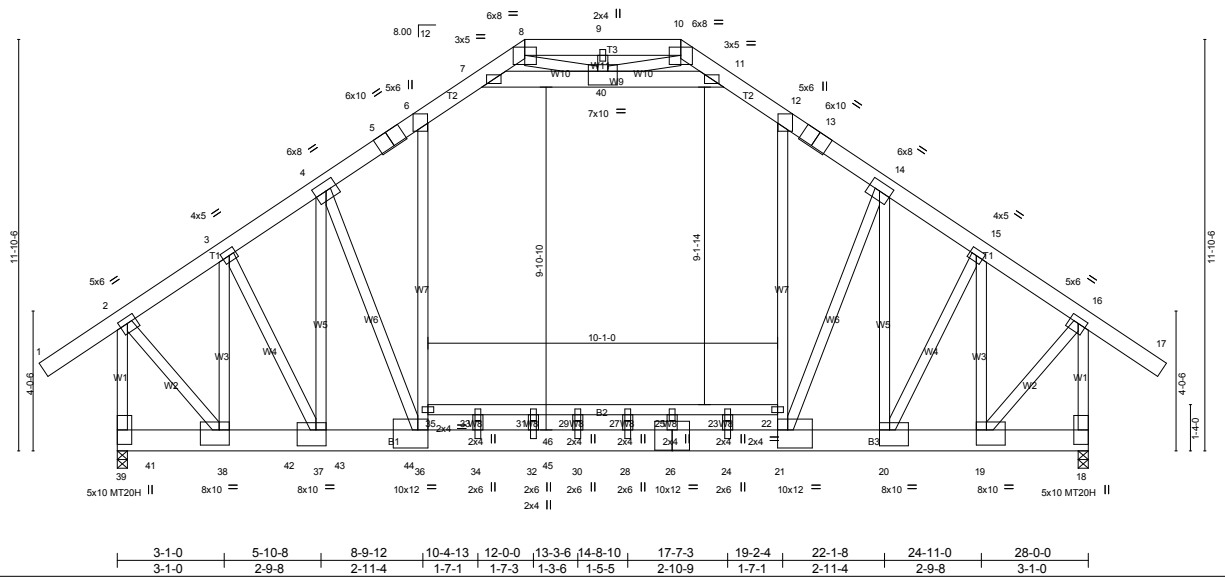
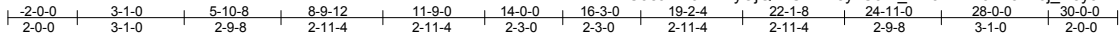


Plate Offsets (X, Y): [2:0-2-12,0-2-0], [5:0-5-0,Edge], [6:0-5-8,Edge], [8:0-4-0,0-2-13], [10:0-4-0,0-2-13], [12:0-5-8,Edge], [13:0-5-0,Edge], [16:0-2-12,0-2-0], [18:Edge,0-3-8], [19:0-3-8,0-5-4], [20:0-3-8,0-5-8], [21:0-3-8,0-6-4], [26:0-6-0,0-7-0], [36:0-3-8,0-6-4], [37:0-3-8,0-5-8], [38:0-3-8,0-5-4], [40:0-5-0,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.00	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.00	BC 0.91	Vert(LL) -0.34 34-36 >984 360	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.81	Vert(TL) -0.54 34-36 >621 240		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.02 18 n/a n/a		
			Wind(LL) 0.04 35 >999 240		
				Weight: 1018 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x6 SYP No.2 \*Except\*  
 T2: 2x6 SYP SS  
 BOT CHORD 2x8 SYP DSS \*Except\*  
 B2: 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W9: 2x6 SYP No.2, W1,W2: 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 10-0-0 oc bracing. Except:  
 10-0-0 oc bracing: 22-35

**REACTIONS** (lb/size) 39=8119/0-3-8 (min. 0-3-8), 18=4579/0-3-8 (min. 0-1-13)  
 Max Horz 39=418(LC 7)  
 Max Uplift 39=442(LC 8), 18=442(LC 9)  
 Max Grav 39=8883(LC 14), 18=4579(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-5297/280, 3-4=-6831/391, 4-5=-6915/425, 5-6=-6895/429, 6-7=-4605/561, 7-8=-2717/867, 10-11=-2666/867, 11-12=-5071/561, 12-13=-5897/429, 13-14=-5917/425, 14-15=-4035/391, 15-16=-2950/280, 8-9=-4575/1218, 9-10=-4575/1218, 2-39=-8245/441, 16-18=-4627/441  
 BOT CHORD 39-41=-393/386, 38-41=-393/386, 38-42=-395/4328, 37-42=-395/4328, 37-43=-406/5829, 43-44=-406/5829, 36-44=-406/5829, 34-36=-280/5041, 32-34=-280/5041, 32-45=-280/5041, 30-45=-280/5041, 28-30=-280/5041, 26-28=-280/5041, 24-26=-280/5041, 21-24=-280/5041, 20-21=-186/3268, 19-20=-153/2469  
 WEBS 35-36=-320/3731, 6-35=-276/4116, 21-22=-328/1629, 12-22=-269/1471, 7-40=-4411/36, 11-40=-6629/158, 8-40=-682/2505, 10-40=-682/3359, 3-38=-3518/203, 4-37=-1506/603, 14-20=-5223/236, 15-19=-2382/202, 4-36=-2121/1294, 3-37=-85/3320, 2-38=-210/6692, 14-21=-380/4794, 15-20=-86/1769, 16-19=-210/3837, 23-24=-807/0, 9-40=-128/762

- NOTES** (17-19)
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 3 rows staggered at 0-4-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - Concentrated loads from layout are not present in Load Case(s): #3 IBC BC Live; #4 MWFRS Wind Left; #5 MWFRS Wind Right; #6 MWFRS Wind Left Positive; #7 MWFRS Wind Right Positive; #8 MWFRS 1st Wind Parallel; #9 MWFRS 2nd Wind Parallel; #10 MWFRS 3rd Wind Parallel; #11 MWFRS 4th Wind Parallel; #12 MWFRS 1st Wind Parallel Positive; #13 MWFRS 2nd Wind Parallel Positive; #20 MWFRS Wind Left Positive + Regular; #21 MWFRS Wind Right Positive + Regular; #22 MWFRS 1st Wind Parallel Positive + Regular; #23 MWFRS 2nd Wind Parallel Positive + Regular.
- On this page has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



January 2, 2013

Job 425247	Truss T20	Truss Type PIGGYBACK ATTIC	Qty 1	Ply 3	Job Reference (optional) i6252514
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:45 2013 Page 2  
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**NOTES** (17-19)

- 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) Ceiling dead load (5.0 psf) on member(s), 6-7, 11-12, 7-40, 11-40; Wall dead load (5.0psf) on member(s),6-35, 12-22
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 33-35, 31-33, 29-31, 27-29, 25-27, 23-25, 22-23
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 442 lb uplift at joint 39 and 442 lb uplift at joint 18.
- 14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 946 lb down at 1-0-0, 946 lb down at 3-0-0, 946 lb down at 5-0-0, 2599 lb down at 6-5-12, 946 lb down at 8-5-12, 946 lb down at 10-5-12, and 946 lb down at 12-5-12, and 946 lb down at 14-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.
- 17) 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.
- 18) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 19) 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=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 18-39=-10, 1-2=-44, 2-6=-44, 6-7=-54, 7-8=-44, 10-11=-44, 11-12=-54, 12-16=-44, 16-17=-44, 8-10=-44, 7-11=-10, 22-35=-90

Drag: 6-35=-10, 12-22=-10

Concentrated Loads (lb)

Vert: 40=-2268(B) 38=-772(B) 28=-772(B) 34=-772(B) 41=-772(B) 42=-772(B) 43=-2125(B) 44=-772(B) 45=-772(B)



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss T30	Truss Type GABLE	Qty 2	Ply 1	Job Reference (optional) 6252515
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:46 2013 Page 1  
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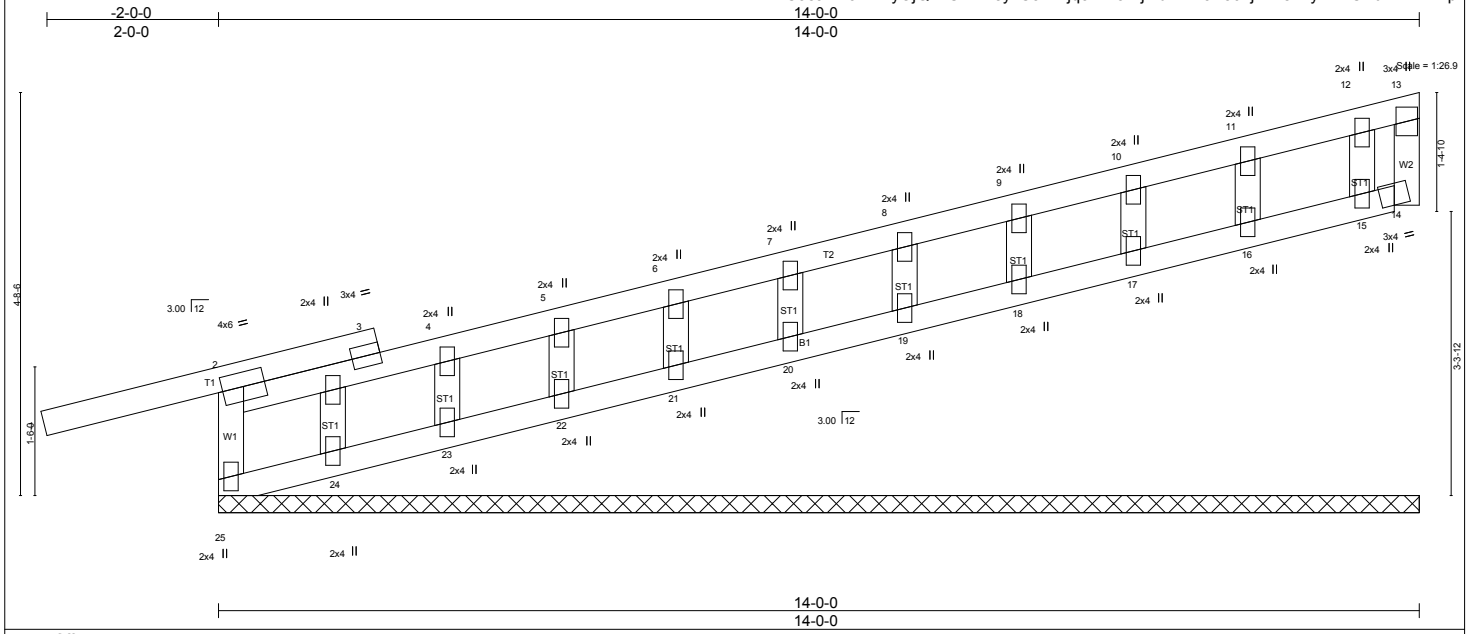


Plate Offsets (X,Y): [14:0-2-0-0-1-5]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.15	Vert(LL) 0.02 1 n/r 120		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.04	Vert(TL) 0.00 1 n/r 120		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 14 n/a n/a		
	Code FBC2010/TPI2007			Weight: 63 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS** All bearings 14-0-0.  
 (lb) - Max Horz 25=207(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 24, 23, 22, 21, 20, 19, 18, 17, 16 except 25=183(LC 8), 14=267(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-25=239/353

- NOTES** (13-15)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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) 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.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 5) Gable studs spaced at 1-4-0 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) Bearing at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 23, 22, 21, 20, 19, 18, 17, 16 except (jt=lb) 25=183, 14=267.
  - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15.
  - 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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 SP, 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



January 2, 2013

Job 425247	Truss T31	Truss Type Monopitch Truss	Qty 8	Ply 1	Job Reference (optional) 6252516
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:47 2013 Page 1  
 ID:C5eaM?9VfkFyOjQLSNmz8yxC31-OwOTka68U4IKZZQGnrXwFbnvzbBZm?bcSYAJGhzzPpU

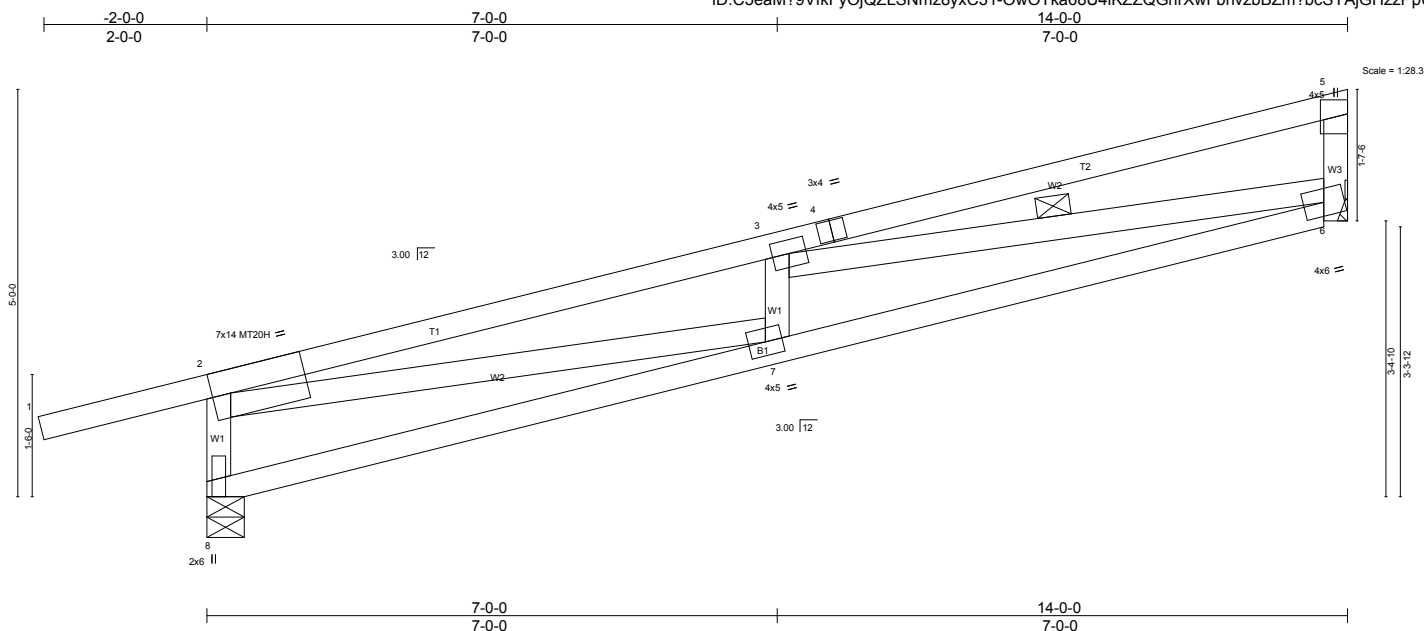


Plate Offsets (X,Y): [2:0-2-12,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.87	Vert(LL) 0.20 7 >841 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.45	Vert(TL) -0.19 7 >880 180	MT20H 187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(TL) -0.03 6 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 71 lb FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-9-1 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-6

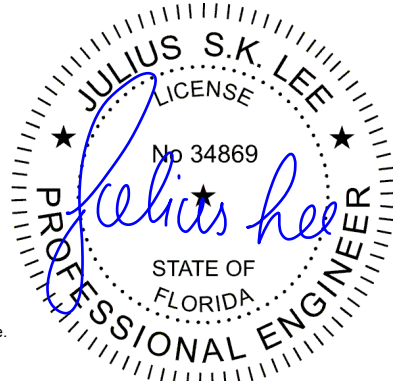
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 8=474/0-5-8 (min. 0-1-8), 6=363/Mechanical  
 Max Horz 8=159(LC 8)  
 Max Uplift 8=-297(LC 8), 6=-229(LC 12)  
 Max Grav 8=566(LC 2), 6=429(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-8=-630/673, 2-3=-1581/1242  
 BOT CHORD 7-8=-428/284, 6-7=-1440/1610  
 WEBS 2-7=-1009/1299, 3-7=-201/263, 3-6=-1417/1269

- NOTES** (9-12)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCp=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
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 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) 8 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 100 lb uplift at joint(s) except (it=lb) 8=297, 6=229.
  - 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 SP, 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



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 BCS11 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 425247	Truss T32	Truss Type MONOPITCH TRUSS	Qty 5	Ply 1	Job Reference (optional) 6252517
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:47 2013 Page 1  
 ID:C5eaM?9VfkFyOjZLSNmz8yxC31-OwOTka68U4KZZQGnrXwFbnnybG5mChcSYAjGHzzPpU

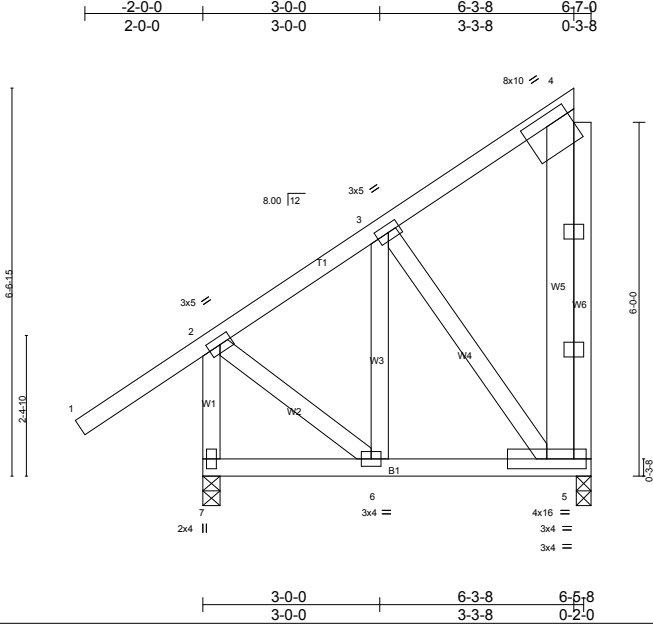


Plate Offsets (X,Y): [4:0-4-15,0-2-4]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFLL</b>	<b>DEFLL</b>	<b>PLATES GRIP</b>
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20 244/190	
TCDL 7.0	Plates Increase 1.25	BC 0.09	Vert(LL) -0.00 5-6 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.16	Vert(TL) -0.01 5-6 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.00 5 n/a n/a		
	Code FBC2010/TPI2007				Weight: 68 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W5: 2x6 SYP No.2, W1: 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 9-1-6 oc bracing.

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

**REACTIONS** (lb/size) 5=331/0-3-0 (min. 0-1-8), 7=289/0-3-8 (min. 0-1-8)  
 Max Horz 7=212(LC 9)  
 Max Uplift 5=298(LC 12), 7=39(LC 12)  
 Max Grav 5=522(LC 21), 7=347(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 4-5=487/321, 2-7=360/216  
 BOT CHORD 6-7=423/339  
 WEBS 3-5=310/311, 2-6=162/271

- NOTES** (8-10)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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
  - 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 100 lb uplift at joint(s) 7 except (jt=lb) 5=298.
  - 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) 361 lb down and 198 lb up at 6-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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 SP, 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  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-2=-44, 2-4=-44, 5-7=-10  
 Concentrated Loads (lb)  
 Vert: 4=-200



January 2, 2013

Job 425247	Truss T33	Truss Type GABLE	Qty 2	Ply 1	Job Reference (optional)	16252518
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:48 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yx31-s6yrxw7mFOtBAj?SLZ39ooKCJ?aVfGihCwHojzzPpT

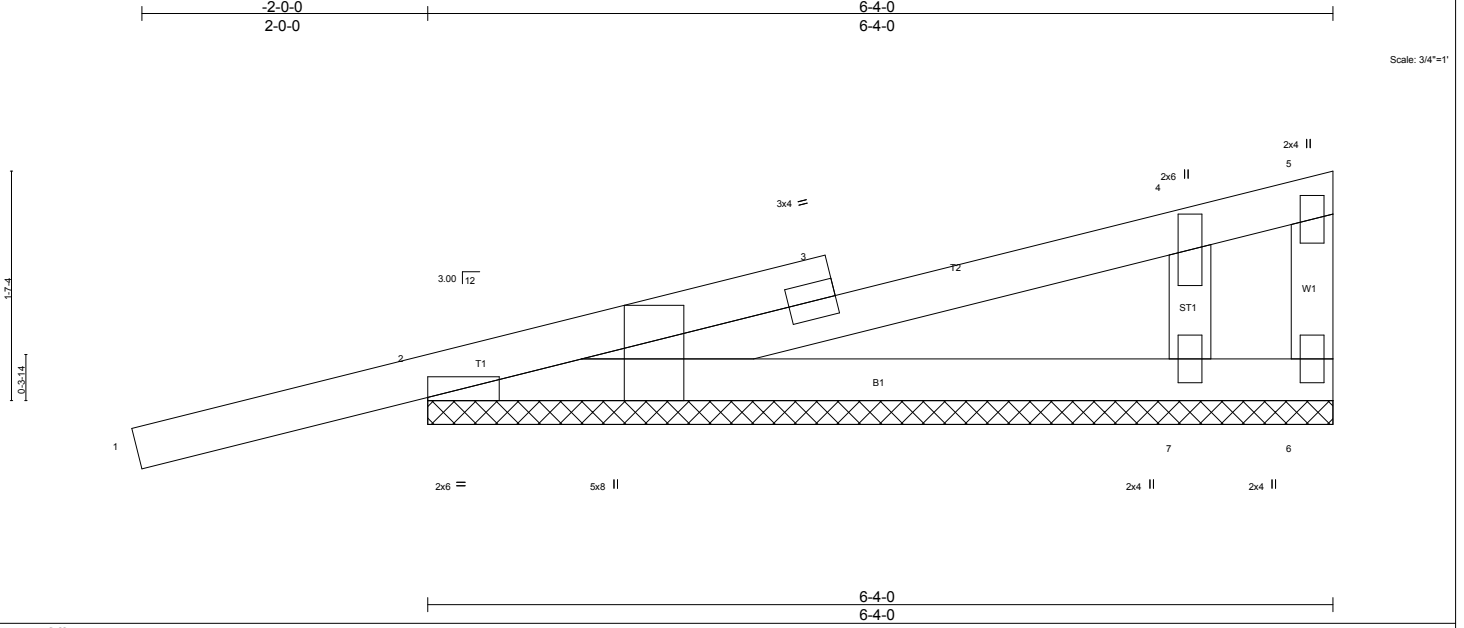


Plate Offsets (X,Y): [2-0-3-8,Edge], [2-0-6-15,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.38	Vert(LL) 0.01 1 n/r 120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.19	Vert(TL) 0.01 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(TL) 0.00 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 28 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 6=107/6-4-0 (min. 0-1-8), 2=230/6-4-0 (min. 0-1-8), 7=301/6-4-0 (min. 0-1-8)  
 Max Horz 2=120(LC 8)  
 Max Uplift 6=124(LC 2), 2=289(LC 8), 7=256(LC 12)  
 Max Grav 6=80(LC 12), 2=277(LC 2), 7=353(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 4-7=486/450

- NOTES** (10-12)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=26ft; Cat. II; Exp D; 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) 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.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=124, 2=289, 7=256.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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 SP, 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 2, 2013

Job 425247	Truss T34	Truss Type Monopitch Truss	Qty 2	Ply 1	Job Reference (optional)	16252519
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:49 2013 Page 1  
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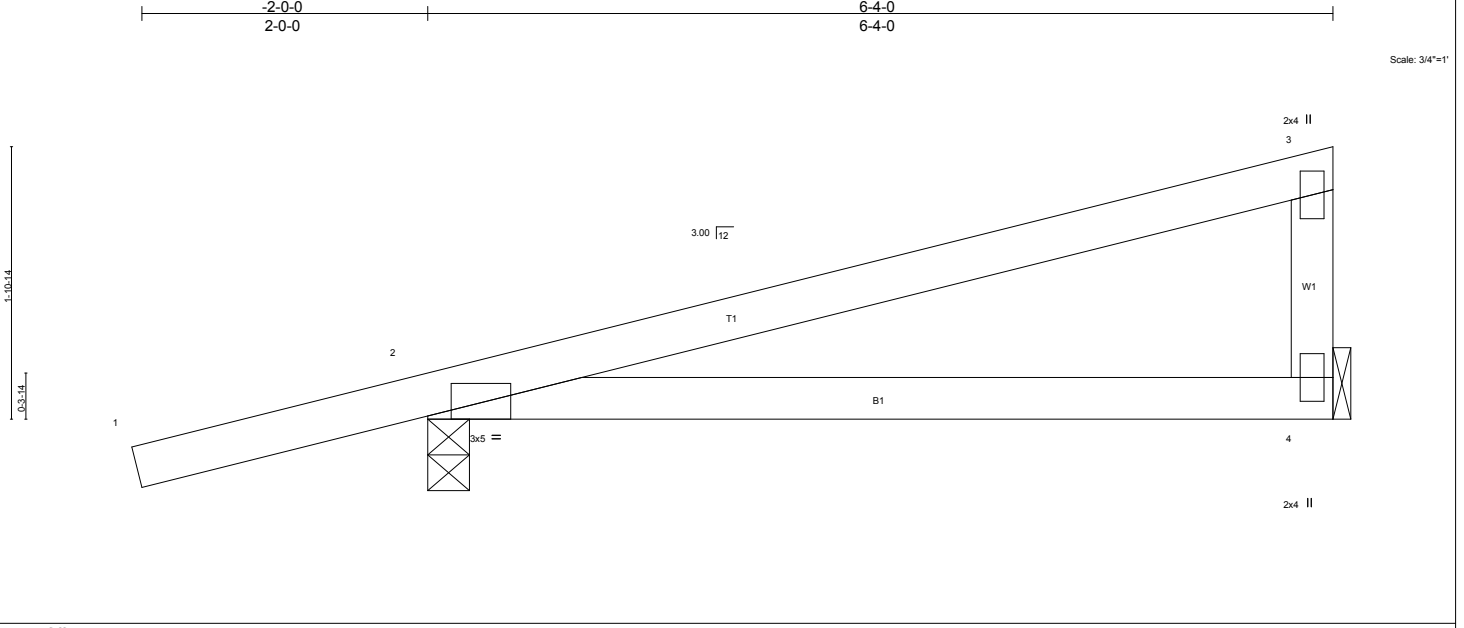


Plate Offsets (X,Y): [2:0-1-15,Edge]						
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190	
TCDL 7.0	Plates Increase 1.25	BC 0.24	Vert(LL) 0.07 4-7 >999 240			
BCLL 0.0 *	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.09 4-7 >804 180			
BCDL 5.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.01 2 n/a n/a			
	Code FBC2010/TPI2007					Weight: 24 lb FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 4=130/Mechanical, 2=293/0-3-8 (min. 0-1-8)  
 Max Horz 2=100(LC 8)  
 Max Uplift 4=-77(LC 12), 2=-220(LC 8)  
 Max Grav 4=154(LC 2), 2=352(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1155/485  
 BOT CHORD 2-4=-602/1249

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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) 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=220.
  - 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 SP, 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

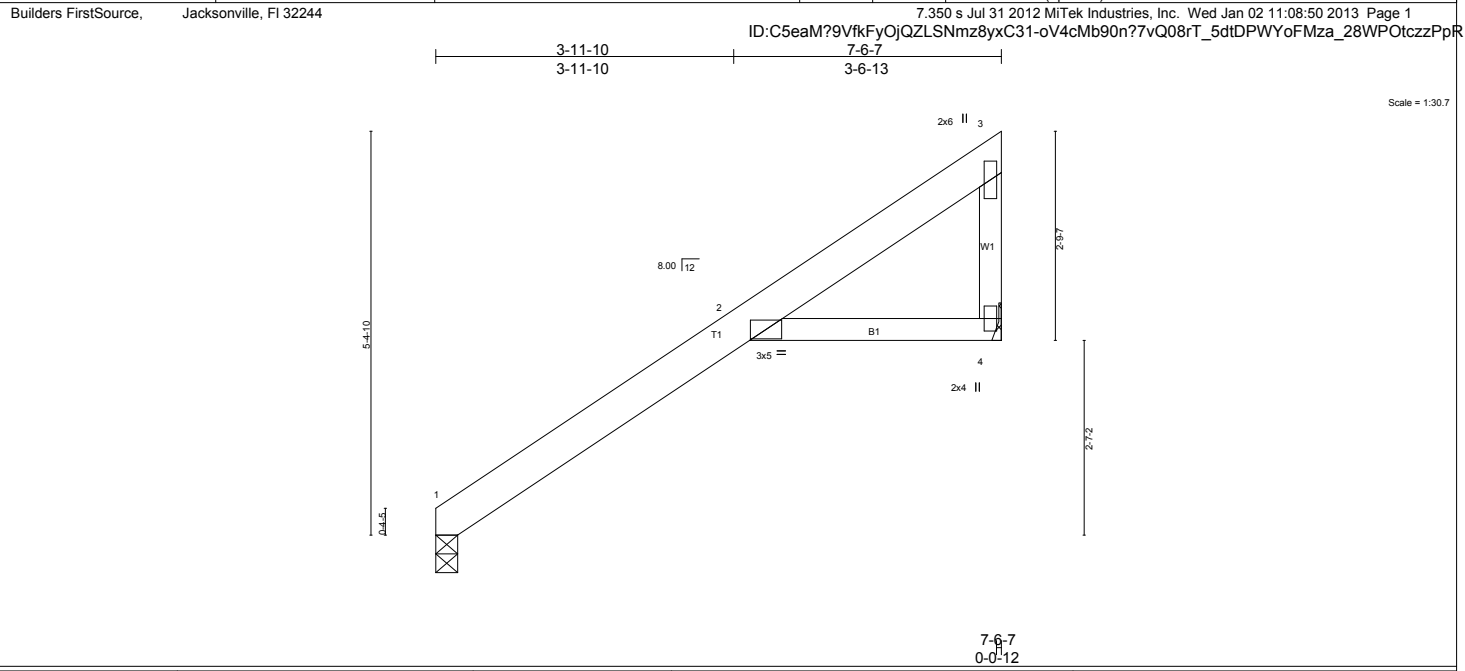
**LOAD CASE(S)** Standard



January 2, 2013

Job 425247	Truss T35	Truss Type Monopitch Truss	Qty 5	Ply 1	Job Reference (optional) i6252520
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:50 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.46 BC 0.25 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.20 1-2 >428 240 Vert(TL) -0.24 1-2 >367 180 Horz(TL) 0.15 4 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 30 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x6 SYP 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 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) 1=201/0-3-8 (min. 0-1-8), 4=198/Mechanical  
 Max Horz 1=210(LC 12)  
 Max Uplift 1=32(LC 12), 4=174(LC 12)  
 Max Grav 1=237(LC 2), 4=274(LC 21)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-348/282

- NOTES** (8-11)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; 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) 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) 1 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 capable of withstanding 100 lb uplift at joint(s) 1 except (it=lb) 4=174.
  - 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 SP, represents new lumber design values as per SPIB.
  - 10) Truss Design Engineer: Julius Lee, PE; Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 11) Use Simpson HTU26 to attach Truss to Carrying member



**LOAD CASE(S)** Standard

January 2, 2013

Job 425247	Truss T36	Truss Type Common Truss	Qty 1	Ply 2	Job Reference (optional) 6252521
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:51 2013 Page 1  
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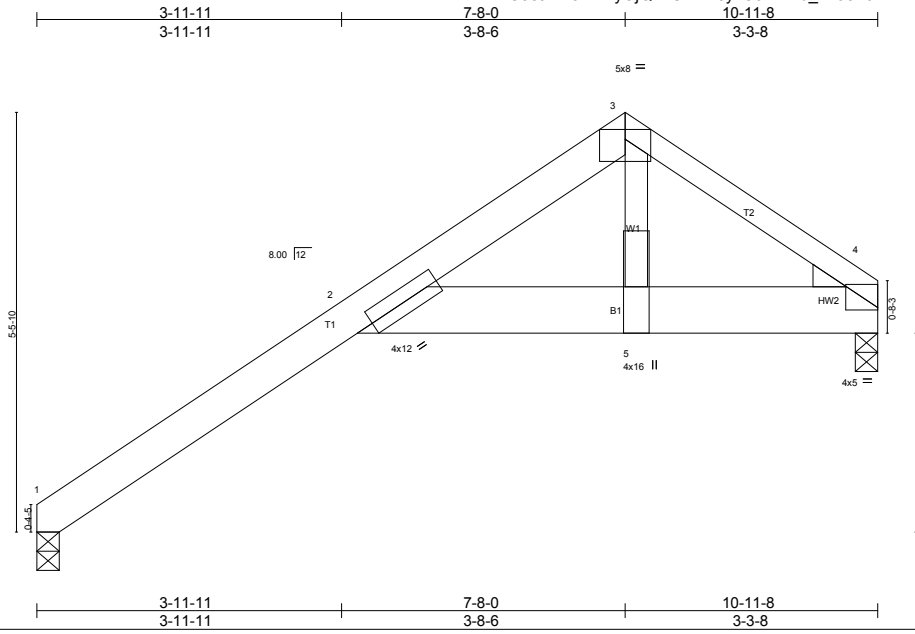


Plate Offsets (X,Y): [2:0-2-13,0-2-2]	
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0
TCLL 20.0	Plates Increase 1.25
TCDL 7.0	Lumber Increase 1.25
BCLL 0.0 *	Rep Stress Incr NO
BCDL 5.0	Code FBC2010/TPI2007
<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d
TC 0.91	Vert(LL) 0.42 1-2 >307 240
BC 0.38	Vert(TL) -0.65 1-2 >197 180
WB 0.71	Horz(TL) 0.44 4 n/a n/a
(Matrix)	
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
Weight: 105 lb FT = 20%	

**LUMBER**  
 TOP CHORD 2x6 SYP SS \*Except\*  
 T2: 2x4 SP No.2  
 BOT CHORD 2x8 SYP DSS  
 WEBS 2x4 SP No.3  
 WEDGE  
 Right: 2x4 SYP 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.

**REACTIONS** (lb/size) 1=971/0-3-8 (min. 0-1-8), 4=2017/0-3-8 (min. 0-1-8)  
 Max Horz 1=158(LC 5)  
 Max Uplift 1=-536(LC 8), 4=-1215(LC 8)  
 Max Grav 1=1151(LC 2), 4=2395(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-628/310, 2-3=-3214/1635, 3-4=-3850/1996  
 BOT CHORD 2-5=-1457/2851, 4-5=-1570/3069  
 WEBS 3-5=-1822/3511

- NOTES** (12-14)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-2-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=536, 4=1215.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2855 lb down and 1500 lb up at 7-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 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



January 2, 2013

Job 425247	Truss T36	Truss Type Common Truss	Qty 1	Ply <b>2</b>	Job Reference (optional) i6252521
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:51 2013 Page 2  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-Hhd\_Zx9eYJFm1Aj10hcsQRxaKCZbis4CNA8xP2zzPpQ

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-56, 2-3=-44, 3-4=-44, 2-4=-10

Concentrated Loads (lb)

Vert: 5=-2404(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

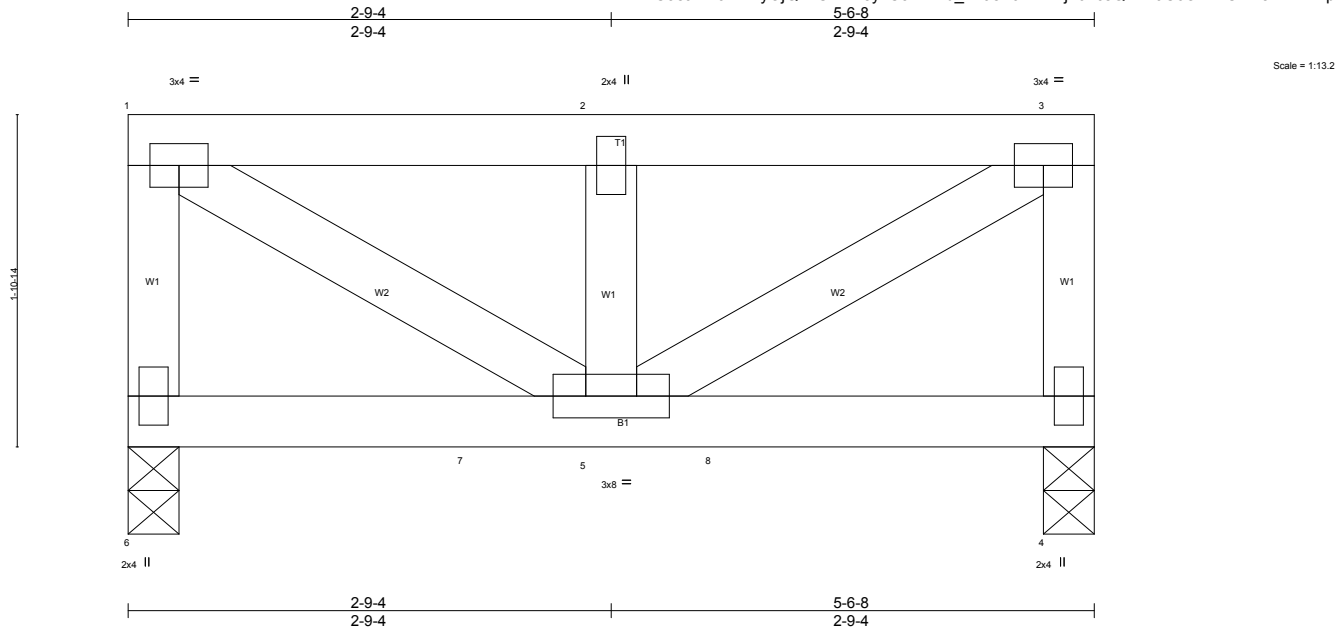
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral 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 BCS11 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 425247	Truss T38	Truss Type Flat Truss	Qty 1	Ply 1	Job Reference (optional) 6252522
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:51 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-Hhd\_Zx9eYJFm1Aj10hcsQRxn9CcoI?WCNA8xP2zzPpQ



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.09 BC 0.13 WB 0.17 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 5 >999 240 Vert(TL) -0.01 4-5 >999 180 Horz(TL) 0.00 4 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 30 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-6-8 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=262/0-3-8 (min. 0-1-8), 4=262/0-3-8 (min. 0-1-8)  
 Max Uplift 6=-160(LC 4), 4=-160(LC 4)  
 Max Grav 6=312(LC 2), 4=312(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-6=-282/154, 1-2=-363/190, 2-3=-363/190, 3-4=-282/154  
 WEBS 1-5=-223/427, 3-5=-223/427

- NOTES** (10-12)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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) 6=160, 4=160.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 144 lb down and 87 lb up at 2-0-12, and 144 lb down and 87 lb up at 3-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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 SP, 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  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-44, 4-6=-10  
 Concentrated Loads (lb)  
 Vert: 7=-120(B) 8=-120(B)



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 425247	Truss T39	Truss Type FLAT TRUSS	Qty 1	Ply 2	Job Reference (optional) 6252523
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7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:53 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSnmz8yxC31-D4Ik\_dBv4wVUHtP86eKVs1340EUAiQUd2TxxzPp0

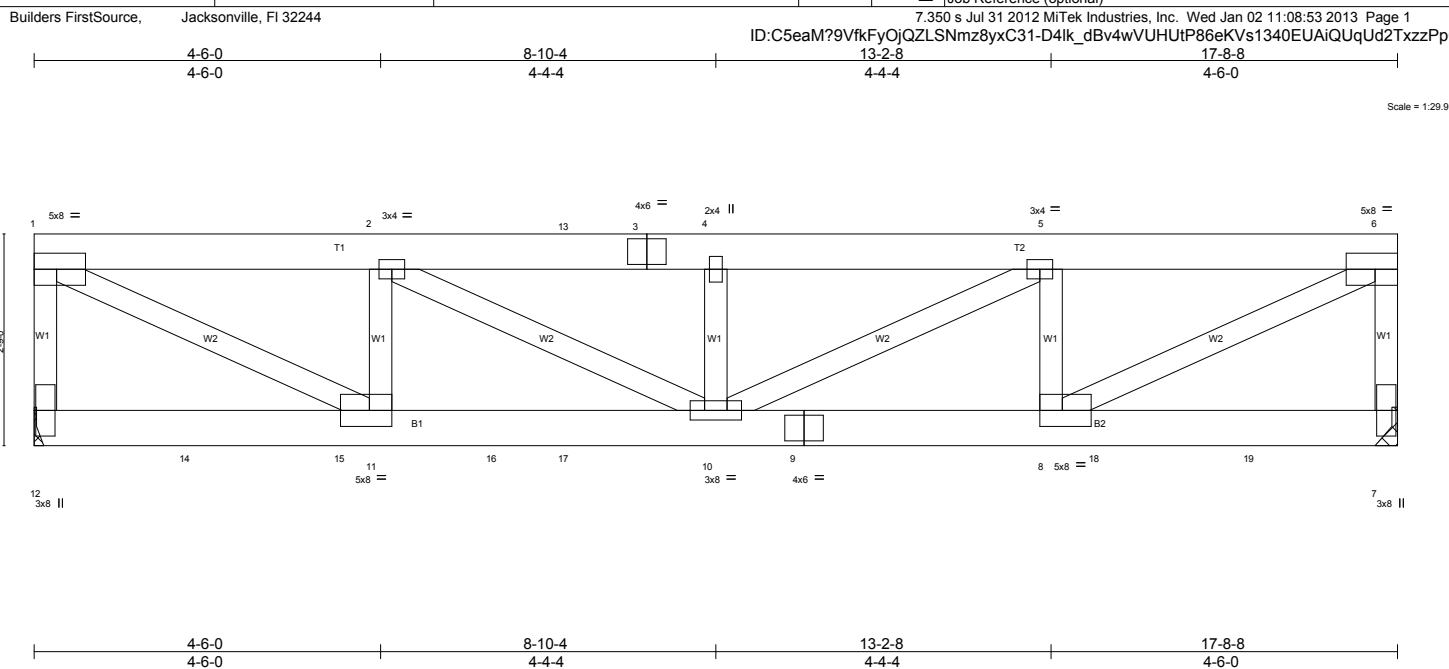


Plate Offsets (X,Y): [8:0-3-8,0-2-8], [11:0-3-8,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/180
TCDL 7.0	Plates Increase 1.25	BC 0.41	Vert(LL) 0.11 10 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.98	Vert(TL) -0.18 10 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.02 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 246 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS** (lb/size) 12=2354/Mechanical, 7=2414/Mechanical  
 Max Uplift 12=-1479(LC 4), 7=-1490(LC 4)  
 Max Grav 12=2794(LC 2), 7=2865(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-12=-2542/1340, 1-2=-4282/2259, 2-13=-5731/2900, 3-13=-5731/2900, 3-4=-5731/2900, 4-5=-5731/2900, 5-6=-4374/2237, 6-7=-2571/1318  
 BOT CHORD 11-16=-2259/4282, 16-17=-2259/4282, 10-17=-2259/4282, 9-10=-2237/4374, 8-9=-2237/4374  
 WEBS 1-11=-2489/4722, 2-11=-1479/704, 2-10=-724/1637, 4-10=-1099/551, 5-10=-749/1533, 5-8=-1653/820, 6-8=-2462/4822

- NOTES** (12-15)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide metal plate or equivalent at bearing(s) 12 to support reaction shown.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 12=1479, 7=1490.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 224 lb down and 185 lb up at 2-0-12, 224 lb down and 185 lb up at 4-0-12, 224 lb down and 185 lb up at 6-0-12, and 224 lb down and 185 lb up at 13-10-12, and 224 lb down and 185 lb up at 15-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson HGUS26-2 to attach Truss to Carrying member

**LOAD CASE(S)** Standard  
 Continued on page 2



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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, D58-89 and BCS11 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 425247	Truss T39	Truss Type FLAT TRUSS	Qty 1	Ply <b>2</b>	Job Reference (optional) i6252523
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:53 2013 Page 2  
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**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-13=-133(B=-89), 5-13=-221(F=-89, B=-89), 5-6=-133(B=-89), 12-17=-44(B=-34), 8-17=-77(F=-34, B=-34), 7-8=-44(B=-34)

Concentrated Loads (lb)

Vert: 14=-187(B) 15=-187(B) 16=-187(B) 18=-187(B) 19=-187(B)



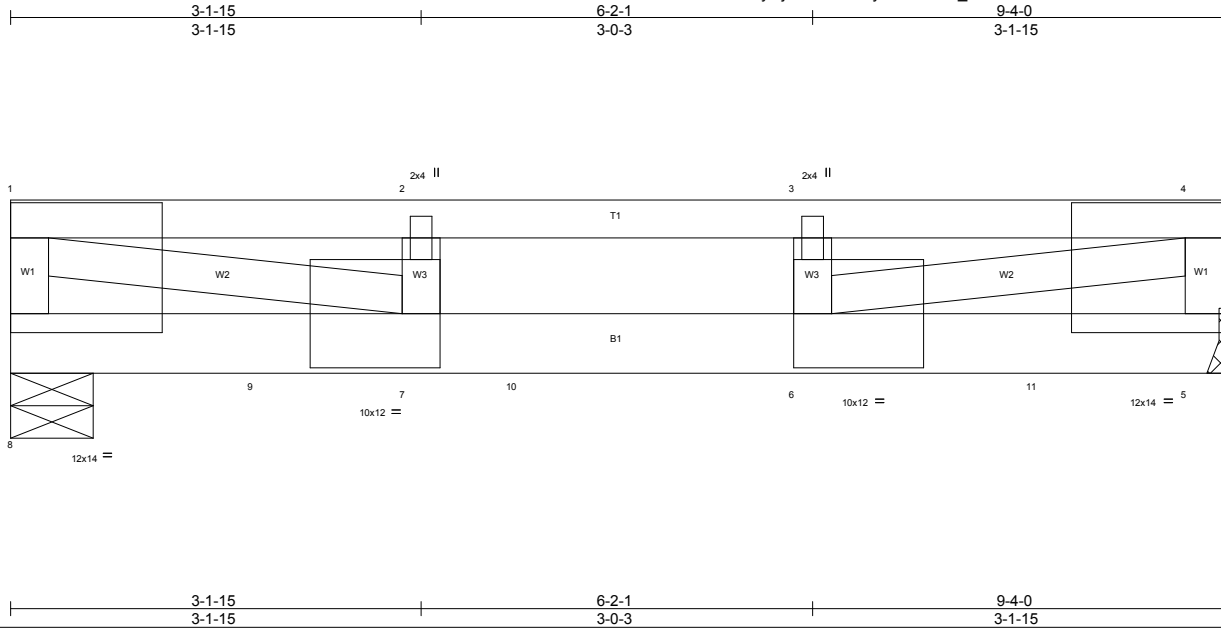
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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

Job 425247	Truss TG01	Truss Type Flat Truss	Qty 1	Ply 2	Job Reference (optional)	16252524
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:53 2013 Page 1  
 ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-D4Ik\_dBv4wVUHUtP86eKVs1zi0AYAmWUqUd2TxxzPpO



Scale = 1:17.7

Plate Offsets (X,Y): [5:Edge,0-3-4], [6:0-3-8,0-5-0], [7:0-3-8,0-5-0], [8:Edge,0-3-4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.66	Vert(LL) -0.11 6-7 >974 360		
BCLL 0.0 *	Lumber Increase 1.00	WB 0.72	Vert(TL) -0.18 6-7 >603 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 5 n/a n/a		
	Code FBC2010/TPI2007			Weight: 95 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SYP No.1  
 BOT CHORD 2x6 SYP SS  
 WEBS 2x4 SP No.2 \*Except\*  
 W2: 2x4 SYP No.1, W3: 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 8=2779/0-7-10 (min. 0-1-13), 5=3142/Mechanical  
 Max Grav 8=3043(LC 4), 5=3489(LC 4)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-8=-2294/0, 1-2=-7309/0, 2-3=-7309/0, 3-4=-7309/0, 4-5=-2286/0  
 BOT CHORD 8-9=0/524, 7-9=0/524, 7-10=0/7309, 6-10=0/7309, 6-11=0/603, 5-11=0/603  
 WEBS 1-7=0/7119, 2-7=-280/33, 3-6=-268/77, 4-6=0/7036

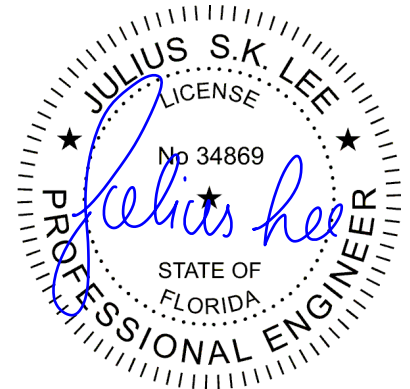
**NOTES** (11-14)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Provide adequate drainage to prevent water ponding.
- Concentrated loads from layout are not present in Load Case(s): #3 IBC BC Live.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide metal plate or equivalent at bearing(s) 5 to support reaction shown.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 615 lb down at 2-0-0, 980 lb down at 2-0-0, 624 lb down at 4-0-0, 980 lb down at 4-0-0, 592 lb down at 6-0-0, 980 lb down at 6-0-0, and 511 lb down at 8-0-0, and 980 lb down at 8-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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.
- Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd, Boynton Beach, FL 33435
- Use Simpson HGUS26-2 to attach Truss to Carrying member

**LOAD CASE(S)** Standard

- Regular: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 1-4=-80, 5-8=-10

Continued on page 2



January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 425247	Truss TG01	Truss Type Flat Truss	Qty 1	Ply <b>2</b>	Job Reference (optional) 6252524
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:53 2013 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 6=-1283(F=-800, B=-483) 9=-1301(F=-800, B=-501) 10=-1308(F=-800, B=-508) 11=-1216(F=-800, B=-416)



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

Job 425247	Truss TG02	Truss Type Flat Truss	Qty 1	Ply 2	Job Reference (optional) 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:54 2013 Page 1	6252525
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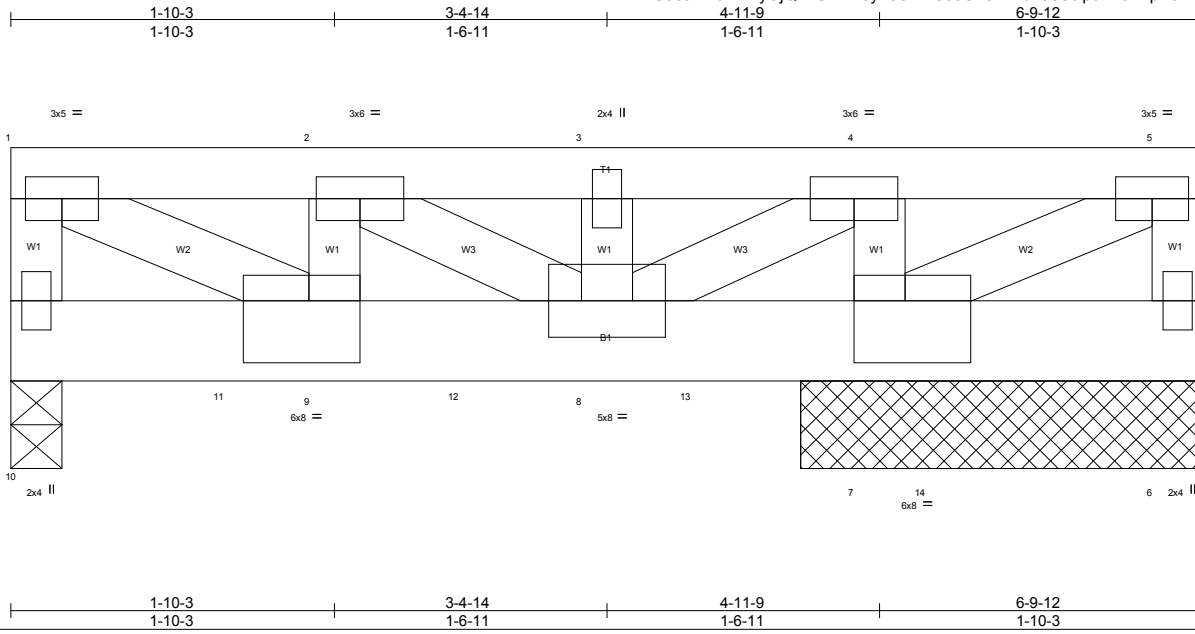


Plate Offsets (X,Y):	[7:0-3-8,0-4-4], [9:0-3-8,0-4-4]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b>	in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.32	Vert(LL) -0.01	8-9 >999 360	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.37	Vert(TL) -0.02	8-9 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.54	Horz(TL) 0.00	6 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Wind(LL) 0.00	9 >999 240		
					Weight: 78 lb	FT = 20%

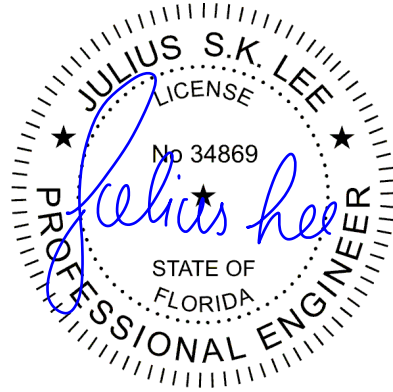
**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SYP No.2  
WEBS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

**REACTIONS** (lb/size) 10=1528/0-3-8 (min. 0-1-8), 6=-325/2-3-10 (min. 0-2-0), 7=3744/2-3-10 (min. 0-2-0)  
Max Uplift 10=-213(LC 4), 6=-382(LC 14), 7=-458(LC 4)  
Max Grav 10=1528(LC 1), 6=6(LC 4), 7=3744(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-1233/196, 1-2=-1757/211, 2-3=-1162/128, 3-4=-1162/128, 4-5=-77/619, 5-6=-59/279  
BOT CHORD 9-12=-211/1757, 8-12=-211/1757, 8-13=-619/77, 7-13=-619/77  
WEBS 1-9=-242/2016, 2-9=-423/169, 2-8=-699/97, 3-8=-469/140, 4-8=-241/2091, 4-7=-1791/345, 5-7=-711/88

- NOTES** (12-14)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - Concentrated loads from layout are not present in Load Case(s): #3 IBC BC Live; #4 MWFRS Wind Left; #5 MWFRS Wind Right; #6 MWFRS Wind Left Positive; #7 MWFRS Wind Right Positive; #8 MWFRS 1st Wind Parallel; #9 MWFRS 2nd Wind Parallel; #10 MWFRS 3rd Wind Parallel; #11 MWFRS 4th Wind Parallel; #12 MWFRS 1st Wind Parallel Positive; #13 MWFRS 2nd Wind Parallel Positive; #14 MWFRS 3rd Wind Parallel Positive; #15 MWFRS 4th Wind Parallel Positive; #16 MWFRS 1st Wind Parallel Positive + Regular; #17 MWFRS 2nd Wind Parallel Positive + Regular; #18 MWFRS 3rd Wind Parallel Positive + Regular; #19 MWFRS 4th Wind Parallel Positive + Regular; #20 MWFRS 1st Wind Parallel Positive + Regular; #21 MWFRS 2nd Wind Parallel Positive + Regular.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 10=213, 6=382, 7=458.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 886 lb down at 1-4-0, 886 lb down at 2-8-0, and 886 lb down at 4-0-0, and 886 lb down at 5-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - 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

January 2, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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, D58-89 and BCS11 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 425247	Truss TG02	Truss Type Flat Truss	Qty 1	Ply <b>2</b>	Job Reference (optional) i6252525
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Jan 02 11:08:54 2013 Page 2  
ID:C5eaM?9VfkFyOjQZLSNmz8yxC31-hGJ6CzCXrEdLueScip9Z23ZFpPbNvGce38Nb0NzzPpN

**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-5=-305, 6-10=-10

Concentrated Loads (lb)

Vert: 11=-723(B) 12=-723(B) 13=-723(B) 14=-723(B)



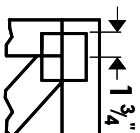
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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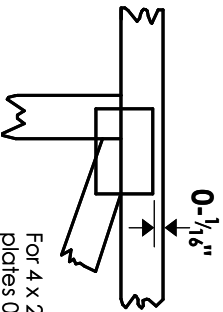
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Boynton Beach, FL 33435

# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{8}$ " from outside edge of truss.



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

## PLATE SIZE

4 X 4

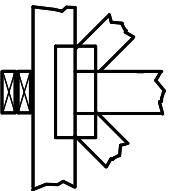
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

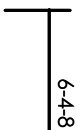


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

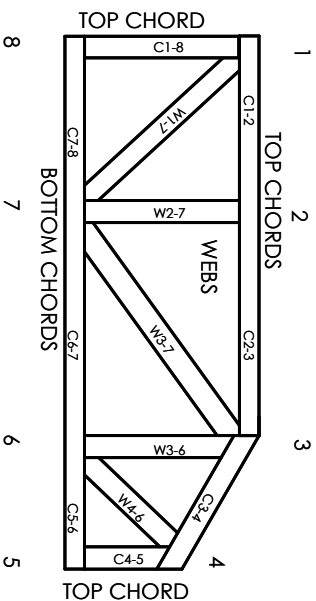
## Industry Standards:

ANSI/FP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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Boynton Beach, FL 33435



# General Safety Notes

**Failure to Follow Could Cause Property Damage or Personal Injury**

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware of joint locations are regulated by ANSI/FP11.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP11.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP11 Quality Criteria.