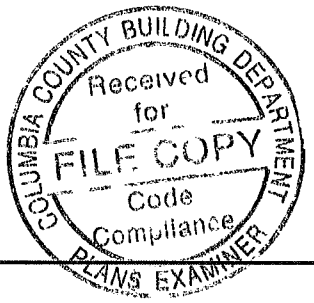
JULIUS LEE PE.



RE: 533050 - GIEBEIG - Lot 8 Unit 3 Mayfair

1109 COASTAL BAY BLVD,
BOYNTON BEACH, FL 33435

Site Information:
Project Customer: GIEBEIG HOMES Project Name. 533050 Model. ST. JOHNS 3 BDRM
Lot/Block: 8 Subdivision: MAYFAIR
Address:
City: COLUMBIA CTY State FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name BRIAN TRENT GIEBEIG License # RR282811523
Address 462 SW FAIRLINGTON CT
City: LAKE CITY State: FL

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2010/TPI2007 Design Program: MiTek 20/20 7.3
Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 26 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.

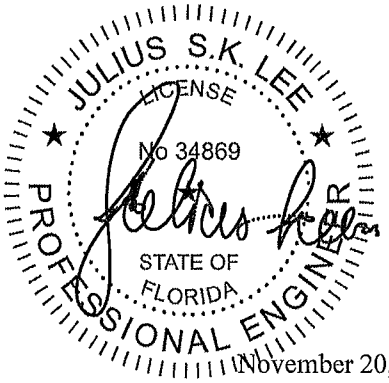
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I7520699	CJ1	11/20/013	18	I7520716	T14	11/20/013
2	I7520700	CJ3	11/20/013	19	I7520717	T15	11/20/013
3	I7520701	CJ5	11/20/013	20	I7520718	T16	11/20/013
4	I7520702	EJ7	11/20/013	21	I7520719	T17	11/20/013
5	I7520703	HJ9	11/20/013	22	I7520720	T18	11/20/013
6	I7520704	T03	11/20/013	23	I7520721	T18G	11/20/013
7	I7520705	T03G	11/20/013	24	I7520722	T19	11/20/013
8	I7520706	T04	11/20/013	25	I7520723	T20	11/20/013
9	I7520707	T05	11/20/013	26	I7520724	T21	11/20/013
10	I7520708	T06	11/20/013				
11	I7520709	T07	11/20/013				
12	I7520710	T08	11/20/013				
13	I7520711	T09	11/20/013				
14	I7520712	T10	11/20/013				
15	I7520713	T11	11/20/013				
16	I7520714	T12	11/20/013				
17	I7520715	T13	11/20/013				

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, 2015.

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



November 20,2013

Julius Lee

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520699
533050	CJ1	JACK	10	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54:20 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz67b-vhlpzp8d8GTnvch?2xGQ5pe4037RrqZAq6ONYCyHg7X

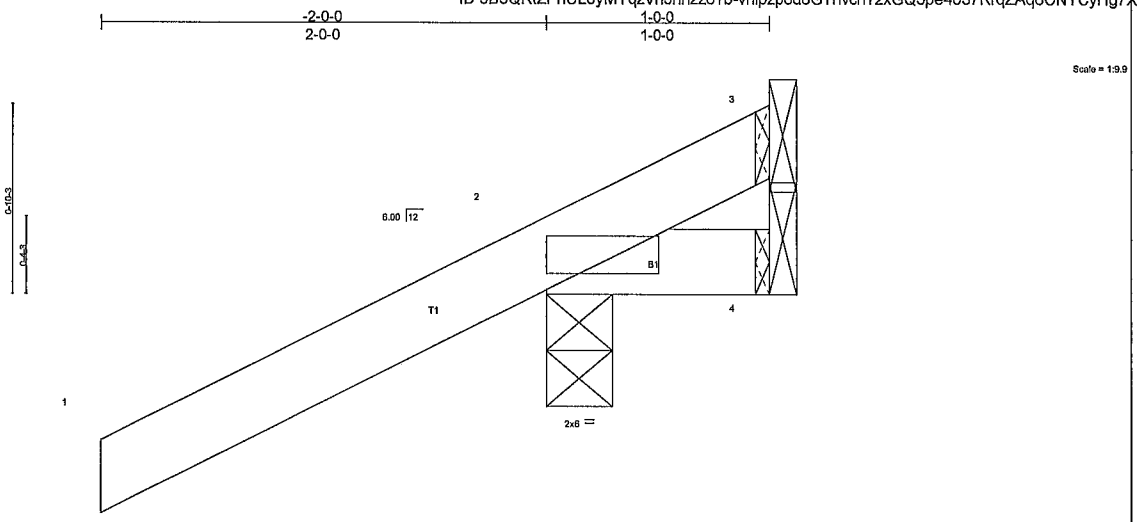


Plate Offsets (X,Y) [2:0-6-0,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.05	Vert(TL)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 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=182/0-3-8 (min 0-1-8), 4=-27/Mechanical, 3=-14/Mechanical
Max Horz 2=52(LC 12)
Max Uplift2=-102(LC 12), 4=-34(LC 2) 3=-18(LC 2)
Max Grav 2=223(LC 2), 4=21(LC 12) 3=11(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; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf h=18ft; Cat. II Exp B Encl GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone porch left and right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2, 34 lb uplift at joint 4 and 18 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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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

November 20,2013

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

Job	Truss	Truss Type	Qty	Ply	GIEBEIG Lot 8 Unit 3 Mayfair	I7520701
533050	CJ5	JACK	10	1	Job Reference (optional)	

Builders FirstSource Lake City, FL 32055 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54:22 2013 Page 1

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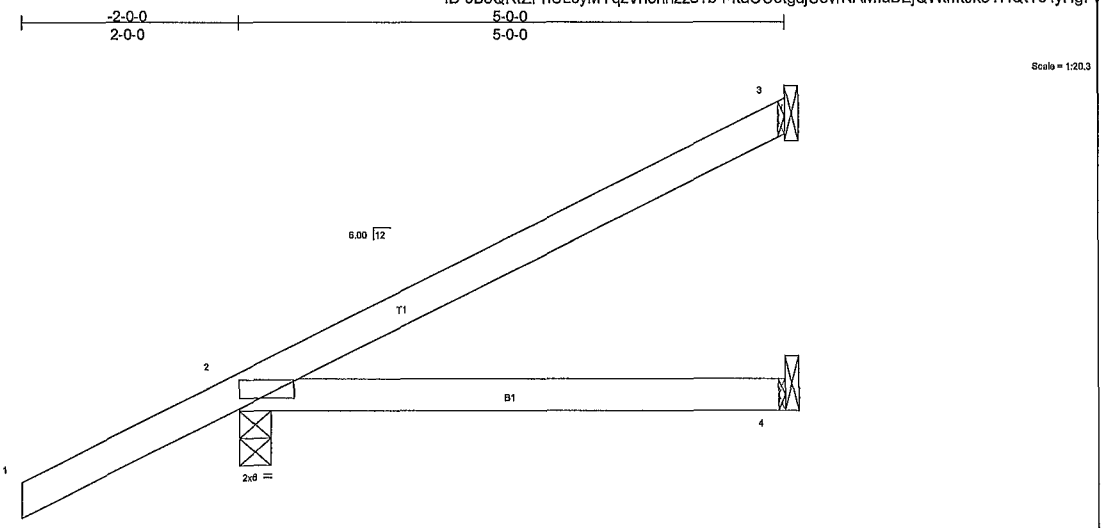

Plate Offsets (X,Y) [2.0-6-0,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 18	Vert(TL)	0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0 00	2	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

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

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

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

REACTIONS (lb/size) 3=79/Mechanical 2=253/0-3-8 (min. 0-1-8), 4=23/Mechanical
Max Horz 2=128(LC 12)
Max Uplift3=-70(LC 12) 2=-105(LC 12) 4=-26(LC 9)
Max Grav 3=97(LC 2) 2=304(LC 2) 4=56(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-281/457
BOT CHORD 2-4=-740/436

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp B, Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No 2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 3, 105 lb uplift at joint 2 and 26 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
8) For special connections with reactions or uplifts less than 300 lbs Use typical toe-nail connection (refer to BFS detail package)
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

November 20,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520703
533050	HJ9	MONO TRUSS	5	1	Job Reference (optional)	

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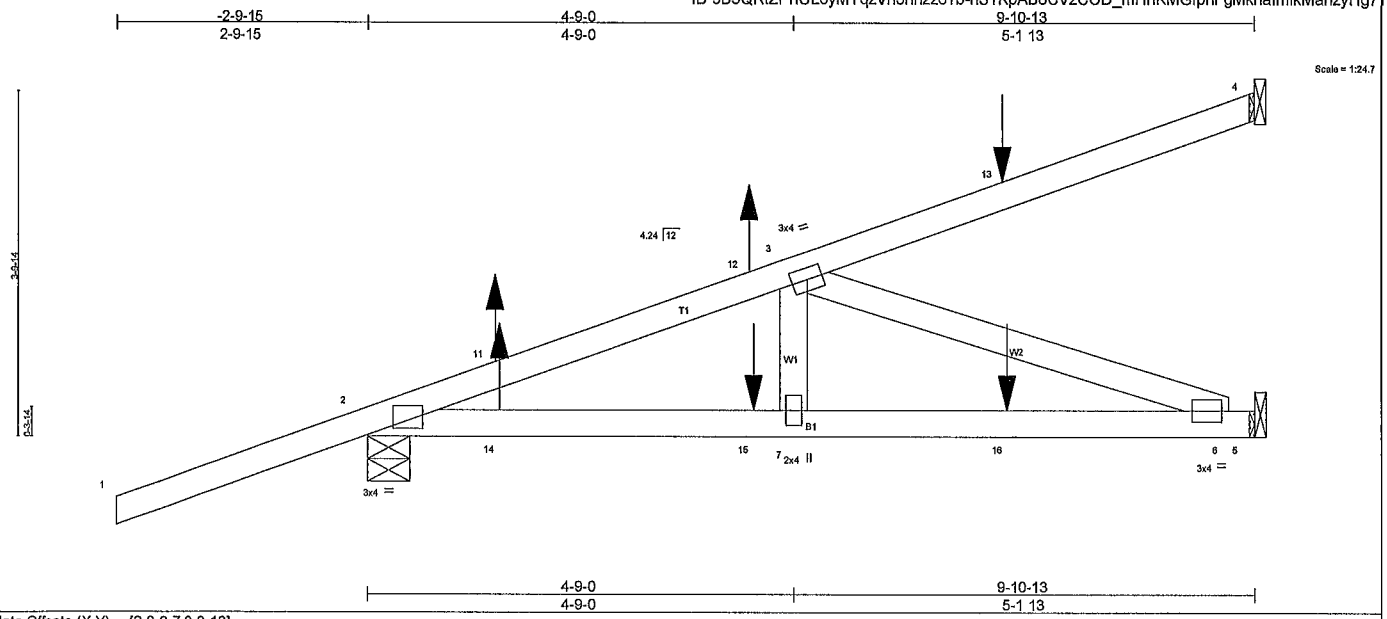

Plate Offsets (X,Y): [2,0-3-7,0-0-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.09	6-7	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0 12	6-7	>997	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.27	Horz(TL)	-0 01	5	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 44 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 7-0-4 oc bracing

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

REACTIONS (lb/size) 4=132/Mechanical 2=339/0-5-11 (min 0-1-8) 5=188/Mechanical
Max Horz 2=186(LC 4)
Max Uplift 4=-124(LC 10), 2=-377(LC 4) 5=-232(LC 10)
Max Grav 4=132(LC 1), 2=486(LC 2) 5=239(LC 3)

FORCES (lb) Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-536/556, 11-12=-472/549 3-12=-472/543
BOT CHORD 2-14=-621/476, 14-15=-621/476 7 15=-621/476 7-16=-621/476, 6-16=-621/476
WEBS 3-6=-504/658

NOTES (10-12)
1) Wind· ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp B; Encl GCpi=0.18 MWFRS (envelope) gable end zone Lumber DOL=1 60 plate grip DOL=1.60
2) Concentrated loads from layout are not present in Load Case(s) #2 Regular Only· #6 MWFRS Wind Left Positive; #7 MWFRS Wind Right Positive #12 MWFRS 1st Wind Parallel Positive; #13 MWFRS 2nd Wind Parallel Positive· #14 Live Only· #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
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 124 lb uplift at joint 4, 377 lb uplift at joint 2 and 232 lb uplift at joint 5.
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) 37 lb up at 1-5-12 37 lb up at 1-5-12 10 lb down and 23 lb up at 4-3-11, 10 lb down and 23 lb up at 4-3-11 and 49 lb down and 75 lb up at 7-1-10 and 49 lb down and 75 lb up at 7-1-10 on top chord, and 16 lb up at 1-5-12 16 lb up at 1-5-12, 12 lb down and 33 lb up at 4-3-11 12 lb down and 33 lb up at 4-3-11 and 42 lb down and 52 lb up at 7 1 10 and 42 lb down and 52 lb up at 7-1 10 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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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

Continued on page 2

November 20,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG Lot 8 Unit 3 Mayfair	I7520704
533050	T03	COMMON	9	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

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ID 9B5QRtZPhUL0yMYqzVn3hhzz6?b-kr64EsCOk6DwdX89PBNqL4u3sUzyFVZ2C2rhlryHg7R

-2-0-0 2-0-0 | 4-9-0 4-9-0 | 10-0-0 5-3-0 | 15-3-0 5-3-0 | 20-0-0 4-9-0 | 22-0-0 2-0-0

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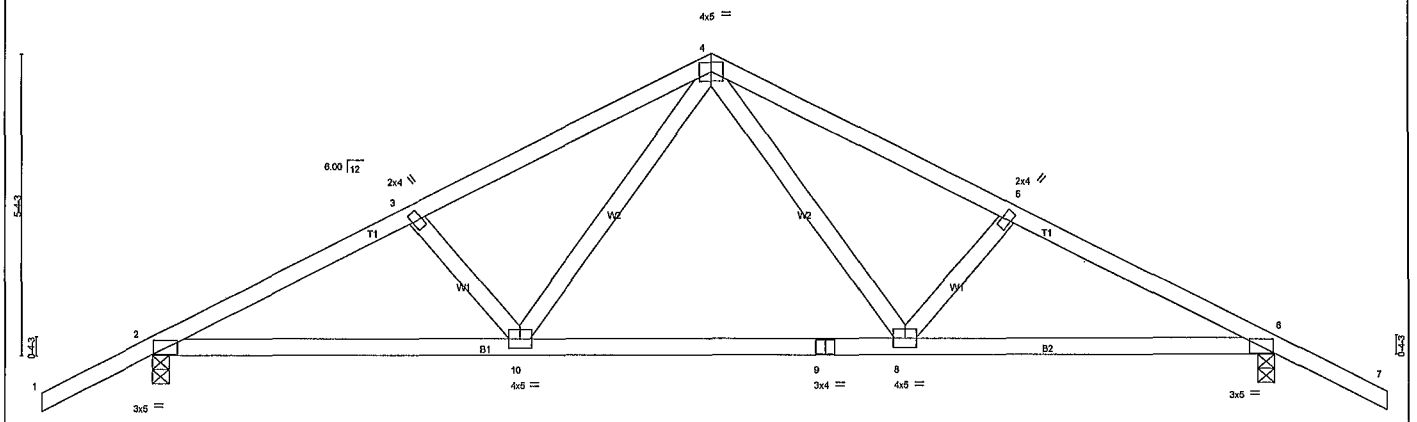

6-7-1 6-7-1 | 13-4-15 6-9-15 | 20-0-0 6-7-1

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.20	8-10	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.87	Vert(TL)	-0.38	8-10	>629	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 96 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-3 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=801/0-3-8 (min 0-1 8) 2=801/0-3-8 (min 0-1-8)
Max Horz 2=100(LC 12)
Max Uplift6=-319(LC 13) 2=-319(LC 12)
Max Grav 6=953(LC 2) 2=953(LC 2)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1637/719 3-4=-1501/695, 4-5=-1500/695, 5-6=-1637/719
BOT CHORD 2-10=-538/1453, 9-10=-270/963, 8-9=-270/963, 6-8=-545/1464
WEBS 4-8=-264/609, 5-8=-253/200, 4-10=-264/609, 3-10=-253/200

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp B· Encl GCpi=0.18· MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 6 and 319 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss
8) 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) For special connections with reactions or uplifts less than 300 lbs Use typical toe-nail connection (refer to BFS detail package)
11) Truss Design Engineer· Julius Lee PE: Florida P E. License No 34869 Address. 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard
1) Regular· Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert. 1-4=-44 4-7=-44 10-14=-10 8-10=-61(F=-51) 8-11=-10

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

November 20,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520706
533050	T04	HIP	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54:29 2013 Page 1

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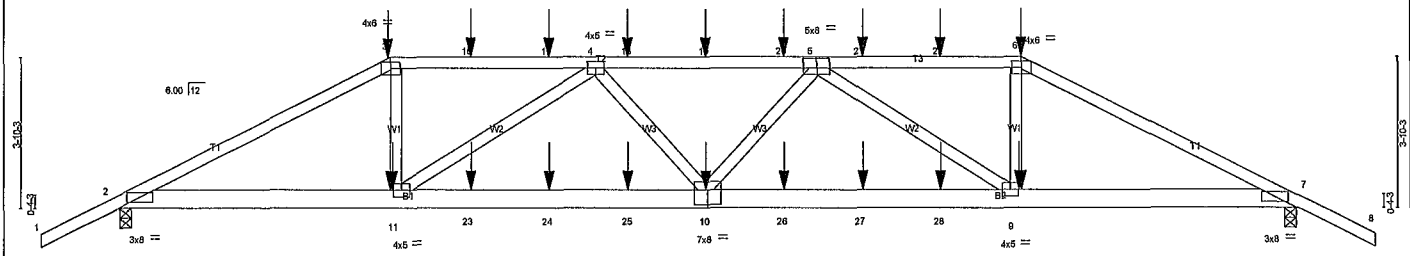
-2-0-0 | 7-0-0 | 12-2-14 | 17-10-2 | 23-1-0 | 30-1-0 | 32-1-0

2-0-0 | 7-0-0 | 5-2-14 | 5-7-5 | 5-2-14 | 7-0-0 | 2-0-0

Scale = 1:56.6



7-0-0 | 15-0-8 | 23-1-0 | 30-1-0

7-0-0 | 8-0-8 | 8-0-8 | 7-0-0

Plate Offsets (X,Y) [2:0-10-4,0-1-9], [5,0-4-0,0-3-0], [7:0-10-4,0-1-9], [10:0-4-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.83	Vert(LL)	0.32	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-0.49	10-11	>731	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.14	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 164 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* T2 T3. 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied

BOT CHORD Rigid ceiling directly applied or 5-0-7 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=1539/0-3-8 (min 0-2-2), 7=1540/0-3-8 (min. 0-2-2)
Max Horz 2=45(LC 8)
Max Uplift 2=-908(LC 8) 7=-908(LC 9)
Max Grav 2=1823(LC 2) 7=1823(LC 2)

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

TOP CHORD 2-3=-3461/1916, 3-16=-3068/1766, 16-17=-3068/1766, 4-17=-3068/1766, 4-18=-4045/2211 18-19=-4045/2211 19-20=-4045/2211 5-20=-4045/2211 5-21=-3068/1765, 21-22=-3068/1765 6-22=-3068/1765 6-7=-3460/1916

BOT CHORD 2-11=-1671/3025 11-23=-2116/3981 23-24=-2116/3981 24-25=-2116/3981 10-25=-2116/3981 10-26=-2098/3984, 26-27=-2098/3984 27-28=-2098/3984, 9-28=-2098/3984, 7-9=-1640/3025

WEBS 3-11=-605/1020, 4-11=-1187/561 4-10=-100/286, 5-10=-99/286, 5-9=-1190/563, 6-9=-605/1019

NOTES (11 13)

1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4 2psf BCDL=3.0psf; h=18ft, Cat. II Exp B Encl. GCpi=0.18 MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=908 7=908.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 163 lb down and 204 lb up at 7-0-0 85 lb down and 72 lb up at 9-0-12, 85 lb down and 72 lb up at 11-0-12 85 lb down and 72 lb up at 13-0-12 85 lb down and 72 lb up at 15-0-8, 85 lb down and 72 lb up at 17-0-4, 85 lb down and 72 lb up at 19-0-4, and 85 lb down and 72 lb up at 21-0-4, and 163 lb down and 204 lb up at 23-1-0 on top chord and 258 lb down and 286 lb up at 7-0-0, 49 lb down and 44 lb up at 9-0-12 49 lb down and 44 lb up at 11-0-12, 49 lb down and 44 lb up at 13-0-12 49 lb down and 44 lb up at 15-0-8, 49 lb down and 44 lb up at 17-0-4, 49 lb down and 44 lb up at 19-0-4, and 49 lb down and 44 lb up at 21-0-4, and 258 lb down and 286 lb up at 23-0-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer Julius Lee, PE. Florida P E. License No 34869 Address 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Continued on page 2

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

November 20,2013

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

Job	Truss	Truss Type	Qty	Ply	GIEBEIG Lot 8 Unit 3 Mayfair	I7520707
533050	T05	HIP	1	1	Job Reference (optional)	

Builders FirstSource Lake City, FL 32055

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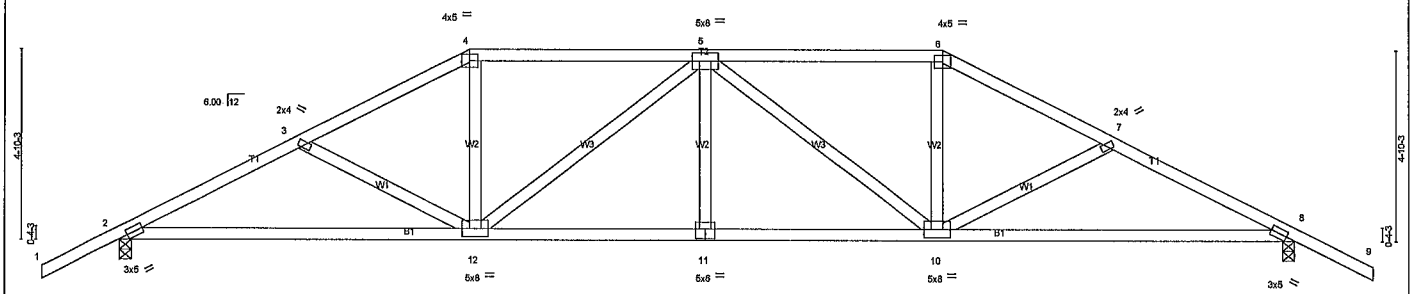
ID 9B5QRtZPhUL0yMYqzVn3hhzz6?b-4pwzHZGXYfsDji16Cly?27bvrVkewiEoMKZSR3yHg7M

-2-0-0	4-9-5	9-0-0	15-0-8	21-1-0	25-3-11	30-1-0	32-1-0
2-0-0	4-9-5	4-2-11	6-0-8	6-0-8	4-2-11	4-9-5	2-0-0

Scale = 1:56.6



9-0-0	15-0-8	21-1-0	30-1-0
9-0-0	6-0-8	6-0-8	9-0-0

Plate Offsets (X,Y). [2:0-2-10,0-1-8], [8,0-2-10,0-1-8], [11,0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0 12	10-15	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0 24	10-15	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.45	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 154 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-11 oc bracing

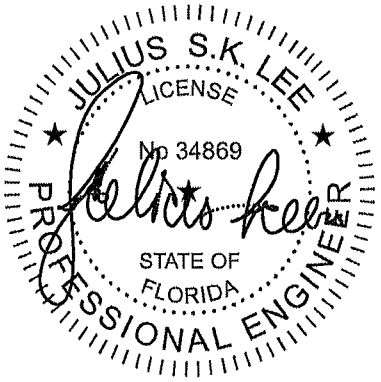
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=900/0-3-8 (min. 0-1-8) 2=900/0-3-8 (min 0-1-8)
Max Horz 2=-59(LC 10)
Max Uplift 8=-138(LC 13) 2=-138(LC 12)
Max Grav 8=1071(LC 2) 2=1071(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1740/765, 3-4=-1506/661, 4-5=-1332/633, 5-6=-1332/633, 6-7=-1506/660 7-8=-1740/765
BOT CHORD 2-12=-575/1505, 11 12=-522/1583 10-11=-522/1583 8-10=-582/1505
WEBS 3-12=-258/207 4-12=-137/396, 5-12=-433/153, 5-10=-433/153, 6-10=-137/395, 7 10=-258/206

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf BCDL=3.0psf h=18ft, Cat. II Exp B, Encl GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=138, 2=138.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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



November 20,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

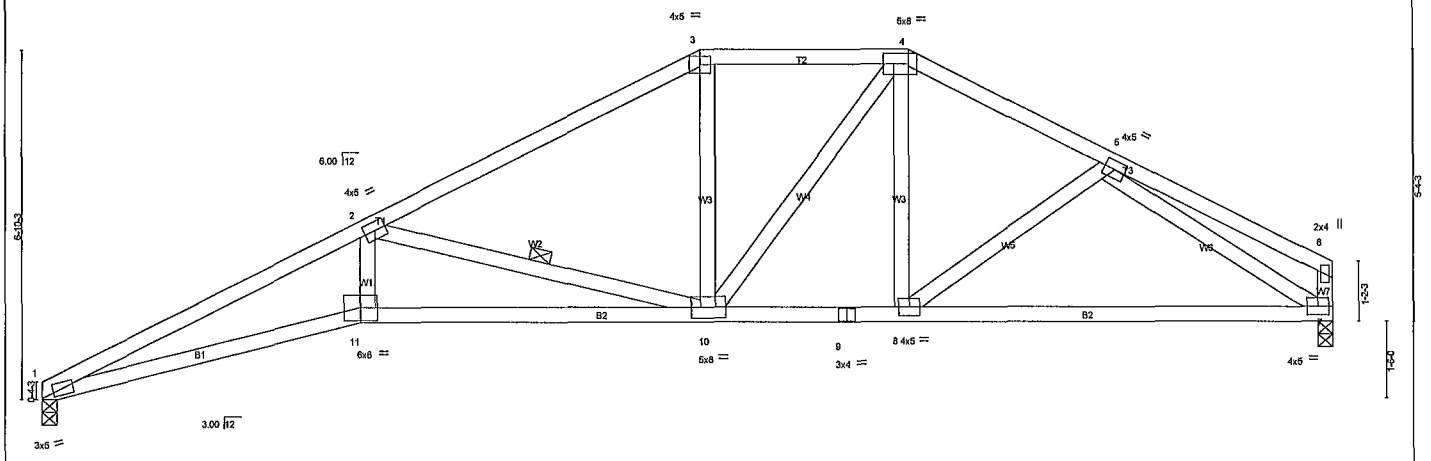
Job	Truss	Truss Type	Qty	Ply	GIEBEIG Lot 8 Unit 3 Mayfair	I7520709
533050	T07	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54:33 2013 Page 1

ID 9B5QRtZPhUL0yMYqzVn3hhzz67b-1B1kiFIn4G6wzcAVJA?T7YgDuIQnObJ4pd2ZVyyHg7K

6-3-8	13-0-0	17-1-0	21-0-1	25-5-0
6-3-8	6-8-8	4-1-0	3-11-1	4-4-15

Scale = 1:43.7



6-3-8	13-0-0	17-1-0	25-5-0
6-3-8	6-8-8	4-1 0	8-4-0

Plate Offsets (X,Y). [4.0-6-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	0 19	11	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0 37	10-11	>825	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.16	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 131 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 3-4-14 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 5-7-5 oc bracing.
WEBS 1 Row at midpt 2-10

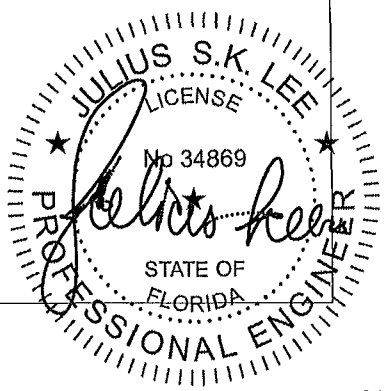
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=685/0-3-8 (min. 0-1-8) 7=680/0-3-8 (min. 0-1-8)
Max Horz 1=105(LC 12)
Max Uplift 1=-118(LC 12) 7=-95(LC 13)
Max Grav 1=812(LC 2), 7=805(LC 2)

FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2668/1184, 2-3=-1232/558, 3-4=-1064/555 4-5=-1072/508
BOT CHORD 1 11=-1116/2422, 10-11=-1060/2294, 9-10=-311/896, 8-9=-311/896, 7-8=-408/940
WEBS 2-11=-231/632 2-10=-1326/706, 3-10=-67/273, 4-10=-112/280 5-7=-1035/478

NOTES (10-12)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp B Encl GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=118
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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



November 20,2013

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

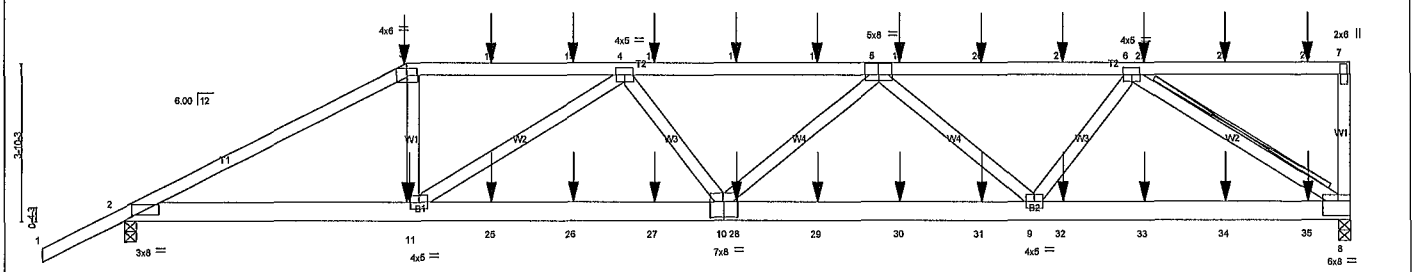
Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520711
533050	T09	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries Inc. Tue Nov 19 08:54:36 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-RmjsKHKfNBUVq3v4_IYAlAlfwWOGbs3XVbGD6GyHg7I

-2-0-0	7-0-0	12-4-0	18-6-7	24-9-0	30-1-0
2-0-0	7-0-0	5-4-0	6-2-7	6-2-9	5-4-0

Scale = 1:54.3



7-0-0	14-8-12	22-4-3	30-1-0
7-0-0	7-8-12	7-7-8	7-8-13

Plate Offsets (X,Y): [2:0-10-4,0-1-9], [5:0-4-0,0-3-4], [8:Edge,0-4-4], [10:0-4-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.89	Vert(LL)	0.29	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.45	10	>792	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.12	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 173 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except*
T1 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-11 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing
WEBS T Brace: 2 X 6 SYP No.2 6-8
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c. with 3in minimum end distance.
Brace must cover 90% of web length

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

REACTIONS (lb/size) 8=1517/0-3-8 (min. 0-2-2) 2=1507/0-3-8 (min. 0-2-2)
Max Horz 2=116(LC 8)
Max Uplift 8=-885(LC 5) 2=-846(LC 8)
Max Grav 8=1796(LC 2) 2=1786(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3376/1804, 3-14=-2991/1654, 14-15=-2991/1654 4-15=-2991/1654 4-16=-3883/2009, 16-17=-3883/2009 17-18=-3883/2009, 5-18=-3883/2009 5-19=-2912/1462 19-20=-2912/1462 20-21=-2912/1462, 6-21=-2912/1462
BOT CHORD 2-11=-1631/2950, 11-25=-2015/3875 25-26=-2015/3875, 26-27=-2015/3875, 10-27=-2015/3875, 10-28=-1878/3731 28-29=-1878/3731 29-30=-1878/3731, 30-31=-1878/3731 9-31=-1878/3731 9-32=-1123/2279 32-33=-1123/2279 33-34=-1123/2279, 34-35=-1123/2279 8-35=-1123/2279
WEBS 3-11=-550/983, 4-11=-1146/468 5-10=-194/342 5-9=-1108/562, 6-9=-596/1112, 6-8=-2699/1331

NOTES (12-14)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp B Encl., GCpi=0.18, MWFRS (envelope) Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=885, 2=846.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 163 lb down and 204 lb up at 7-0-0, 85 lb down and 72 lb up at 9-0-12, 85 lb down and 72 lb up at 11-0-12, 85 lb down and 72 lb up at 13-0-12, 85 lb down and 72 lb up at 15-0-12, 85 lb down and 72 lb up at 17-0-12, 85 lb down and 72 lb up at 19-0-12, 85 lb down and 72 lb up at 21-0-12, 85 lb down and 72 lb up at 23-0-12, 85 lb down and 72 lb up at 25-0-12, and 85 lb down and 72 lb up at 27-0-12, and 85 lb down and 72 lb up at 29-0-12 on top chord, and 258 lb down and 286 lb up at 7-0-0, 49 lb down and 44 lb up at 9-0-12, 49 lb down and 44 lb up at 11-0-12, 49 lb down and 44 lb up at 13-0-12, 49 lb down and 44 lb up at 15-0-12, 49 lb down and 44 lb up at 17-0-12, 49 lb down and 44 lb up at 19-0-12, 49 lb down and 44 lb up at 21-0-12, 49 lb down and 44 lb up at 23-0-12, 49 lb down and 44 lb up at 25-0-12, and 49 lb down and 44 lb up at 27-0-12, and 49 lb down and 44 lb up at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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

November 20,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG Lot 8 Unit 3 Mayfair	I7520712
533050	T10	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

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ID 9B5QRtZPhUL0yMYqzVn3hhzz6?b-vzHFYdLI8VcMRDUGY?3PHOrwwwjUKPtgkF0mejyHg7G

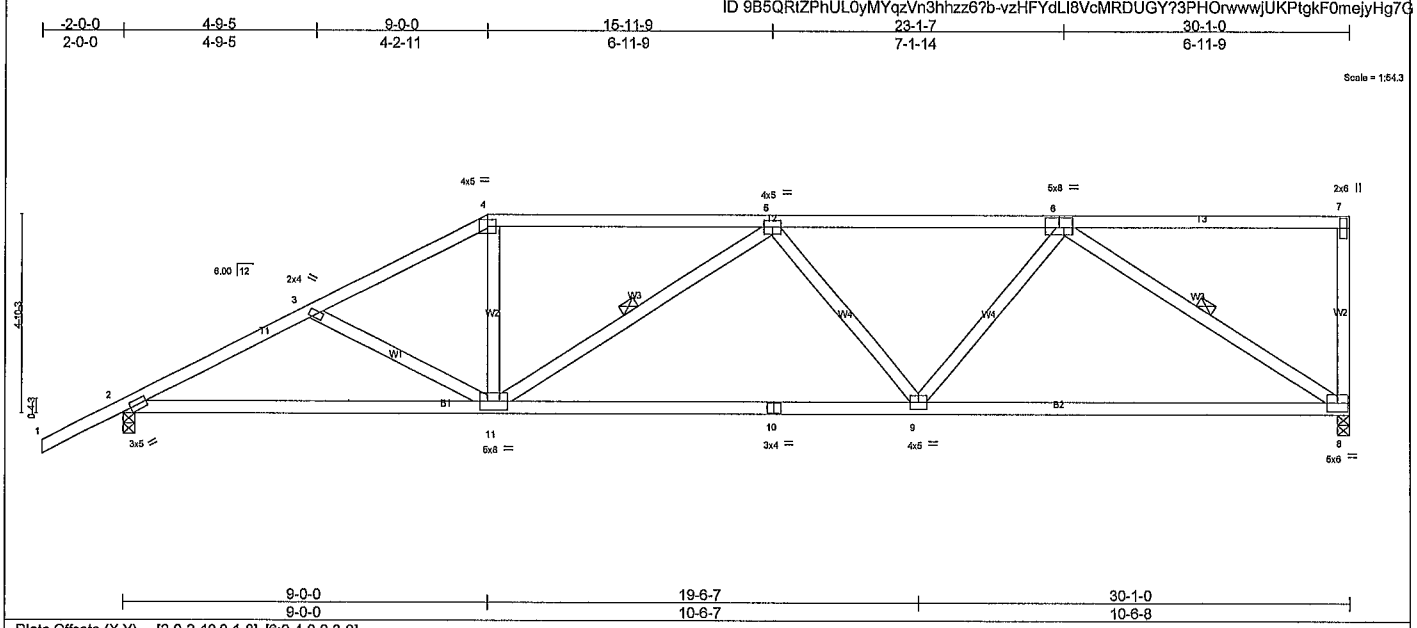

Plate Offsets (X,Y). [2,0-2-10,0-1-8], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.29	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-0.53	8-9	>674	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.08	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 155 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-6 oc purlins except end verticals
BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.
WEBS 1 Row at midpt 5-11 6-8

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

REACTIONS (lb/size) 8=802/0-3-8 (min. 0-1 8) 2=903/0-3-8 (min. 0-1-8)
Max Horz 2=143(LC 12)
Max Uplift 8=-183(LC 9), 2=-134(LC 9)
Max Grav 8=950(LC 2), 2=1074(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1753/721 3-4=-1523/620, 4-5=-1337/597 5-6=-1411/571
BOT CHORD 2-11=-772/1546, 10-11=-697/1587 9-10=-697/1587 8-9=-501/1153
WEBS 4-11=-101/387, 5-11=-407/126, 5-9=-289/205, 6-9=-115/465, 6-8=-1349/593

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp B Encl., GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=183, 2=134.
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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

November 20,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG Lot 8 Unit 3 Mayfair	I7520714
533050	T12	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

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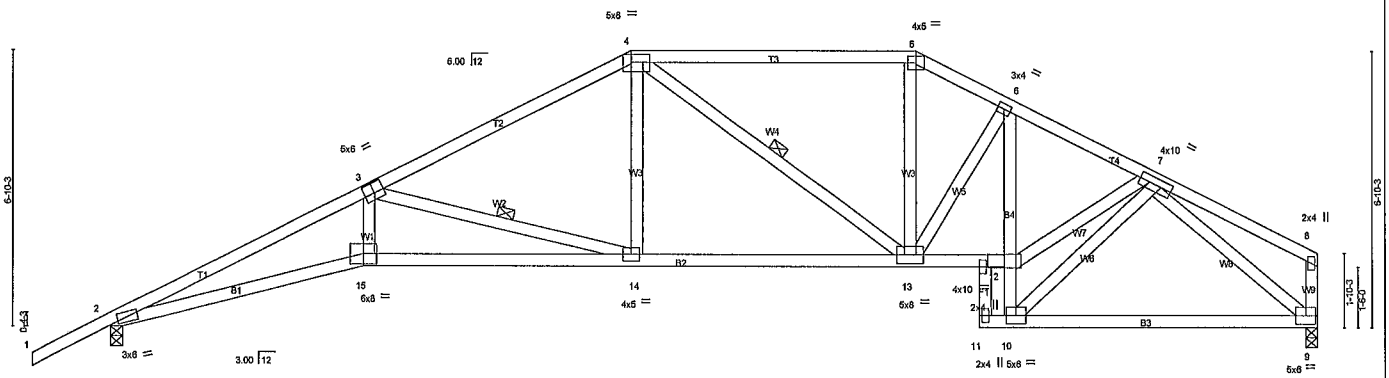
ID 9B5QRtZPhUL0yMYqzVn3hhzz6?b-JXyNAeNARQ_xJgDrD8d6v0TNh7mrXks6QDEQF2yHg7D

-2-0-0	6-3-8	13-0-0	20-1-0	22-3-8	26-0-10	30-1-0
2-0-0	6-3-8	6-8-8	7-1-0	2-2-8	3-9-2	4-0-6

Scale = 1:55.2



6-3-8	13-0-0	20-1-0	21-8-0	22-3-8	30-1-0
6-3-8	6-8-8	7-1-0	1-7-0	0-7-8	7-9-8

Plate Offsets (X,Y). [3:0-3-0,0-3-0], [4.0-5-8,0-2-4], [16:0-2-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	0.26	14-15	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.50	14-15	>721	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.29	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 175 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B4. 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W9 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-14 oc bracing Except:
9-5-0 oc bracing 10-12
WEBS 1 Row at midpt 3-14, 4-13

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

REACTIONS (lb/size) 2=903/0-3-8 (min 0-1-8) 9=809/0-3-8 (min. 0-1-8)
Max Horz 2=113(LC 12)
Max Uplift2=-158(LC 12) 9=-111(LC 13)
Max Grav 2=1074(LC 2) 9=958(LC 2)

FORCES (lb) Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3218/1364, 3-4=-1659/720, 4-5=-1316/640, 5-6=-1460/679, 6-7=-1573/699
BOT CHORD 2-15=-1239/2910, 14-15=-1170/2735, 13-14=-493/1419 12-13=-496/1361, 10-12=-345/858, 9-10=-386/928
WEBS 3-15=-257/738, 3-14=-1394/706 4-14=-143/465, 4-13=-281/78 5-13=-142/377 7-12=-558/1427 7-10=-1139/527 7-9=-1198/511

NOTES (10-12)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10· Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf· h=18ft; Cat. II Exp B, Encl GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158 9=111
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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

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

November 20,2013

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 BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520716
533050	T14	SPECIAL	2	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54.43 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-k6eWogP2kLMWA8xQvGApXf5yXKodk4DZ6BT4sMyHg7A

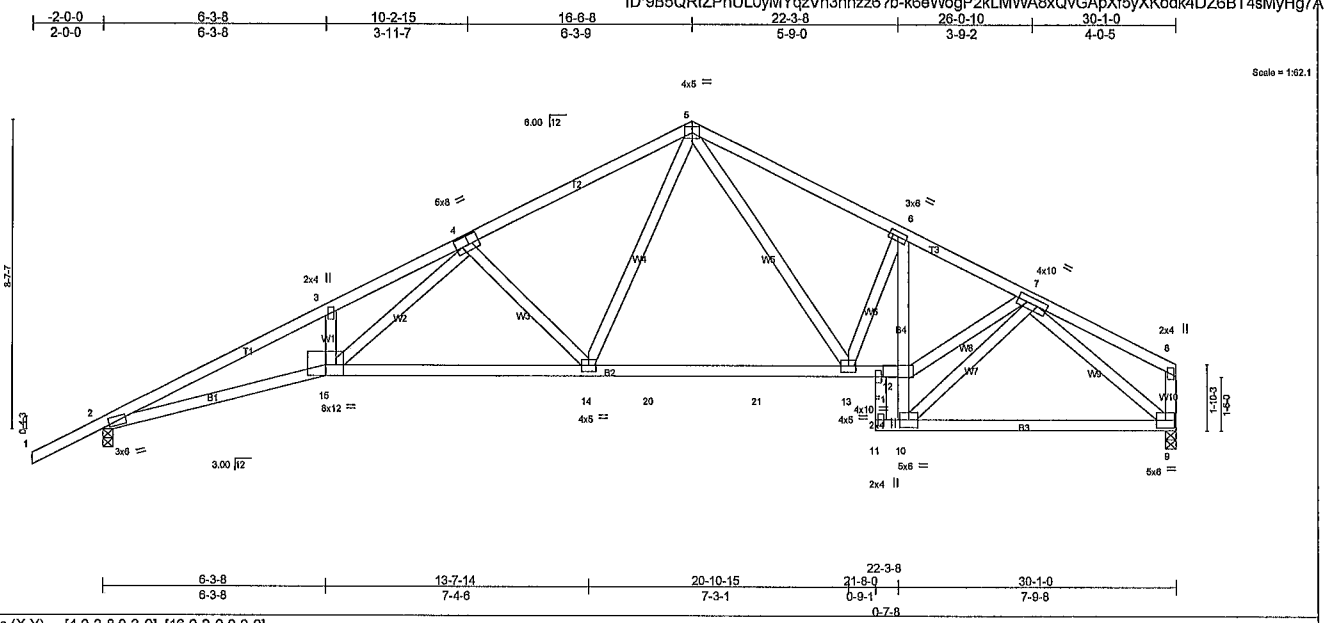


Plate Offsets (X,Y). [4.0-3-8,0-3-0], [16.0-2-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	0.25	14-15	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1 25	BC	0.76	Vert(TL)	-0 50	14-15	>724	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.27	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 176 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B4, 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W10: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing. Except.
9-5-0 oc bracing 10-12

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

REACTIONS (lb/size) 2=943/0-3-8 (min. 0-1-8) 9=859/0-3-8 (min. 0-1-8)
Max Horz 2=130(LC 12)
Max Uplift2=-171(LC 12) 9=-127(LC 13)
Max Grav 2=1074(LC 2), 9=957(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-3339/1354, 3-4=-3323/1460, 4-5=-1698/752 5-6=-1707/778, 6-7=-1698/728
BOT CHORD 2-15=-1224/3011 14-15=-733/1907 14-20=-327/1114 20-21=-327/1114, 13-21=-327/1114, 12-13=-545/1497 10-12=-341/881 9-10=-395/987
WEBS 4-15=-635/1403, 4-14=-739/429, 5-14=-290/739 5-13=-248/556, 6-13=-284/227 7 12=-585/1519 7-10=-1171/520, 7-9=-1274/519

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp B 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, with BCDL = 5.0psf
5) All bearings are assumed to be SP No 2 crushing capacity of 565 psi
6) Bearing at joint(s) 2 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 (jt=lb) 2=171 9=127
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) For special connections with reactions or uplifts less than 300 lbs Use typical toe-nail connection (refer to BFS detail package)
11) Truss Design Engineer· Julius Lee PE. Florida P E License No 34869 Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard

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

November 20,2013

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Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

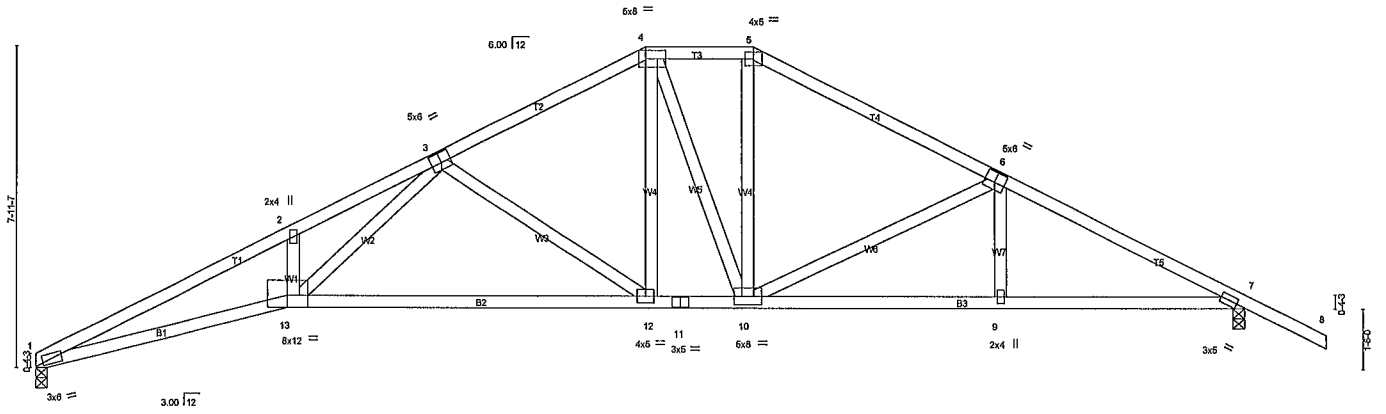
Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520718
533050	T16	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54.46 2013 Page 1

ID 9B5QRtZPhUL0yMYqzVn3hhzz67b-8hKeQiSx0Gl41bg?aOkW9HjTBYqqxSW?p9hIThyHg77

6-3-8	10-1-8	15-2-8	17-10-8	24-0-4	30-1-0	32-1-0
6-3-8	3-10-0	5-1-0	2-8-0	6-1-12	6-0-12	2-0-0

Scale = 1:55.1



6-3-8	15-2-8	17-10-8	24-0-4	30-1-0
6-3-8	8-11-0	2-8-0	6-1 12	6-0-12

Plate Offsets (X,Y) [3,0-3-0,0-3-0], [4:0-6-0,0-2-8], [6:0-3-0,0-3-0], [7:0-2-10,0-1 8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.29	12-13	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 73	Vert(TL)	-0.63	12-13	>571	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.21	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 158 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 2-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-4 oc bracing.

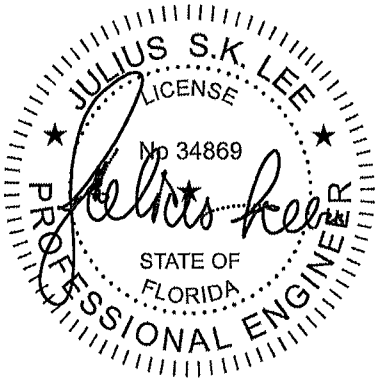
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=807/0-3-8 (min. 0-1-8) 7=905/0-3-8 (min. 0-1-8)
Max Horz 1=89(LC 12)
Max Uplift 1=-141(LC 12) 7=-153(LC 13)
Max Grav 1=957(LC 2) 7=1077(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3200/1333, 2-3=-3202/1448, 3-4=-1386/644, 4-5=-1168/613, 5-6=-1346/628 6-7=-1744/741
BOT CHORD 1 13=-1167/2895, 12-13=-683/1791 11 12=-324/1163, 10-11=-324/1163, 9-10=-549/1498, 7-9=-548/1499
WEBS 3-13=-635/1420, 3-12=-785/438, 4-12=-194/523, 5-10=-136/341 6-10=-447/265

NOTES (10-12)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II, Exp B; Encl GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) 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
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=141 7=153.
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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



November 20,2013

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Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520720
533050	T18	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54:48 2013 Page 1

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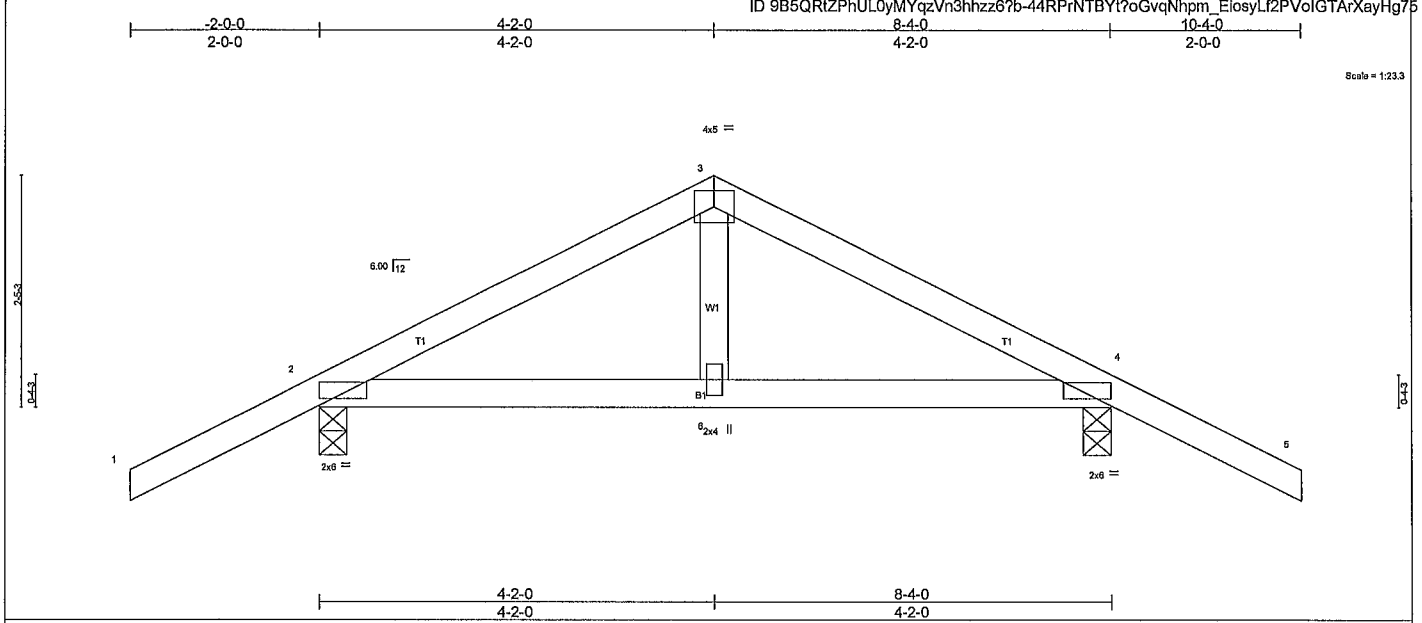


Plate Offsets (X,Y). [2:0-6-0,0-0-14], [4.0-6-0,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.02	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0 01	6-9	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 36 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 10-0-0 oc bracing

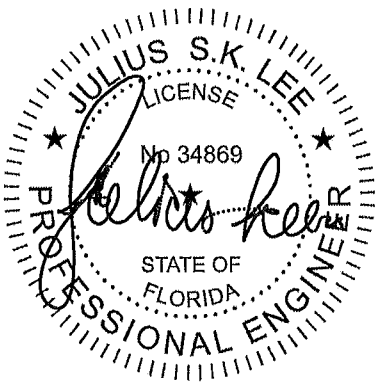
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=313/0-3-8 (min. 0-1-8) 4=313/0-3-8 (min. 0-1-8)
Max Horz 2=-51(LC 13)
Max Uplift2=-134(LC 12) 4=-134(LC 13)
Max Grav 2=375(LC 2) 4=375(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-296/386, 3-4=-296/386
BOT CHORD 2-6=-281/241 4-6=-296/261

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4 2psf· BCDL=3.0psf; h=18ft, Cat. II Exp B, Encl GCpi=0.18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
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=134, 4=134.
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) For special connections with reactions or uplifts less than 300 lbs Use typical toe-nail connection (refer to BFS detail package)
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



November 20,2013

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Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520722
533050	T19	COMMON	3	1	Job Reference (optional)	

Builders FirstSource Lake City, FL 32055 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54 50 2013 Page 1

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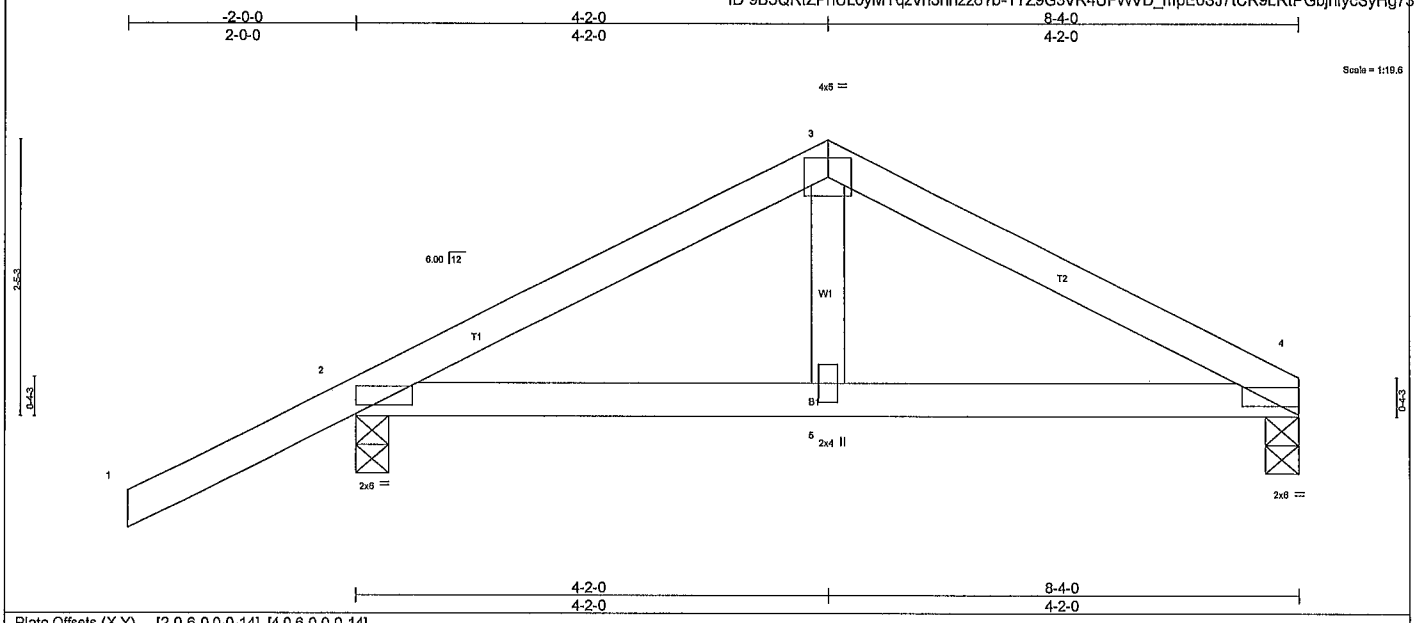

Plate Offsets (X,Y). [2.0-6-0,0-0-14], [4.0-6-0,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.02	5-8	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.11	Vert(TL)	0.02	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 33 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 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=221/0-3-8 (min. 0-1 8) 2=317/0-3-8 (min 0-1-8)
Max Horz 2=68(LC 16)
Max Uplift4=-100(LC 8) 2=-135(LC 12)
Max Grav 4=262(LC 2) 2=379(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-312/406, 3-4=-325/476
BOT CHORD 2-5=-321/247 4-5=-589/407

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp B, Encl GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 4=100, 2=135.
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) For special connections with reactions or uplifts less than 300 lbs Use typical toe-nail connection (refer to BFS detail package)
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

November 20,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 8 Unit 3 Mayfair	I7520724
533050	T21	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Nov 19 08:54:52 2013 Page 1

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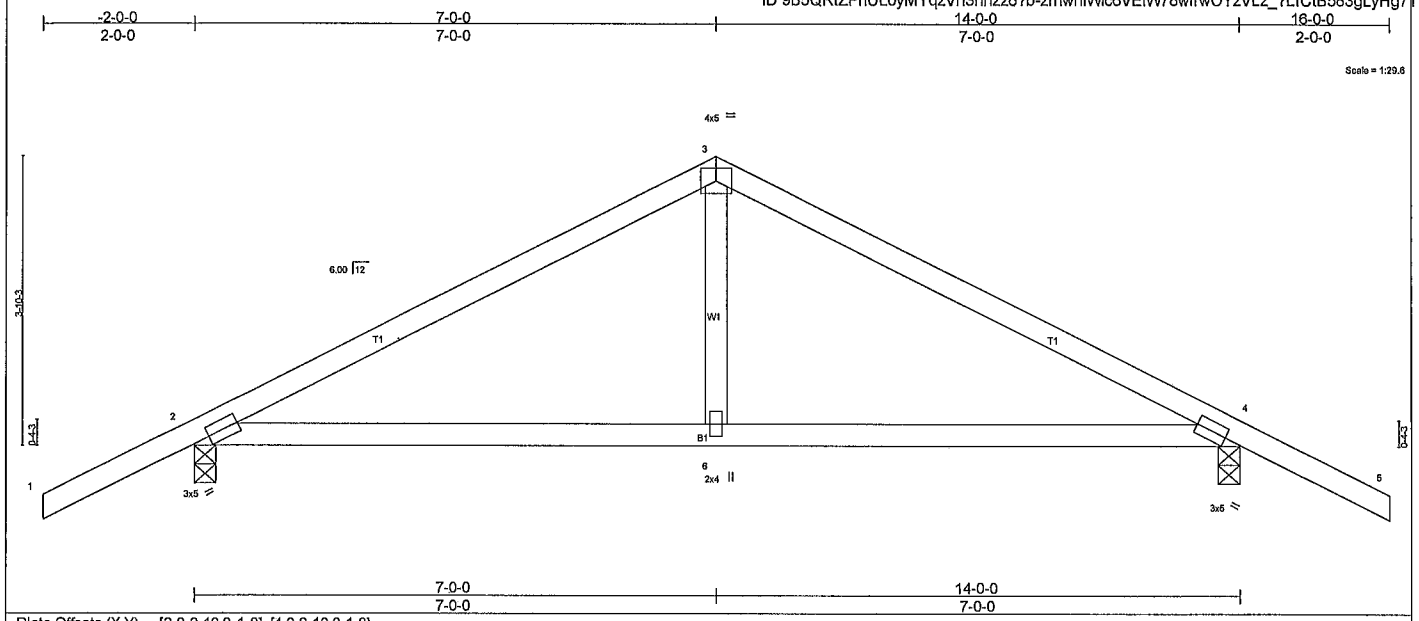


Plate Offsets (X,Y) [2 0-2-10,0-1-8], [4.0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.11	6-12	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.30	Vert(TL)	0.09	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 56 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 8-8-11 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=466/0-3-8 (min. 0-1 8) 4=466/0-3-8 (min. 0-1-8)
Max Horz 2=48(LC 11)
Max Uplift2=-156(LC 9) 4=-156(LC 8)
Max Grav 2=556(LC 2), 4=556(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-619/914, 3-4=-621/918
BOT CHORD 2-6=-1157/852, 4-6=-1177/863
WEBS 3-6=-317/209

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp B Encl. GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed·C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=156 4=156.
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
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

November 20,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

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

MiTek Industries, Inc.

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

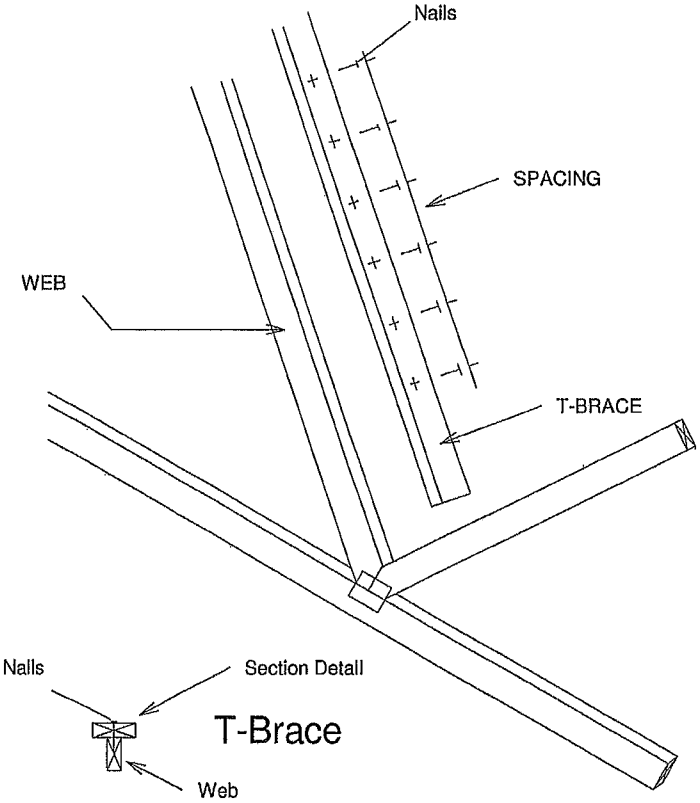
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

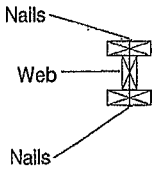
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

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

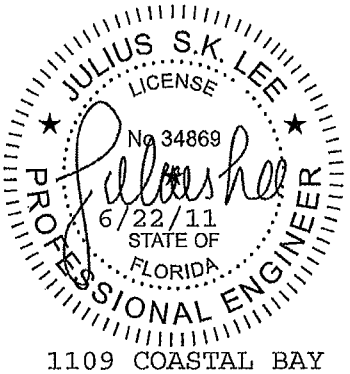
	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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





I-Brace



1109 COASTAL BAY
BOYNTON BC,FL 33435

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

MiTek Industries, Chesterfield, MO

MiTek Industries, Inc.

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

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

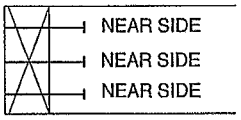
VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)					
	DIAM.	SYP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80 6	69.9	68.4	59.7
	135	93.5	85.6	74.2	72.6	63 4
	162	108.8	99 6	86.4	84.5	73 8
3.25" LONG	.128	74.2	67.9	58.9	57 6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	148	81.4	74.5	64.6	63.2	52.5

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

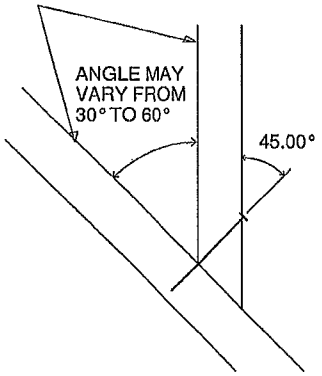
SIDE VIEW

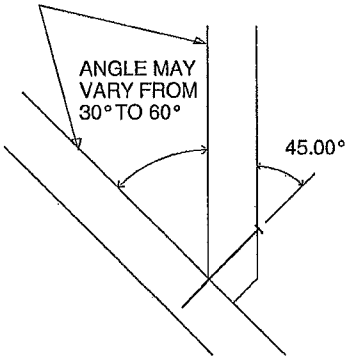
3 NAILS

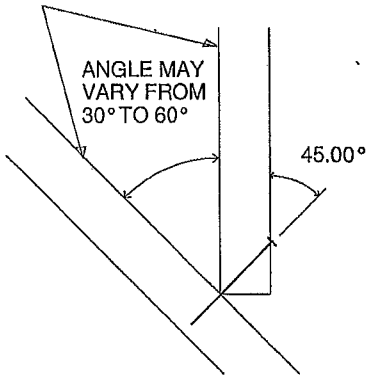


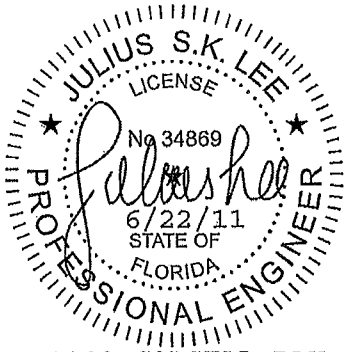
EXAMPLE
(3) - 16d NAILS (.162" diam x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84 5 (lb/nail) X 1 15 (DOL) = 291 5 lb Maximum Capacity









1109 COASTAL BAY
BOYNTON BC, FL 33435

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

MiTek Industries, Chesterfield, MO

MiTek Industries, Inc.

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

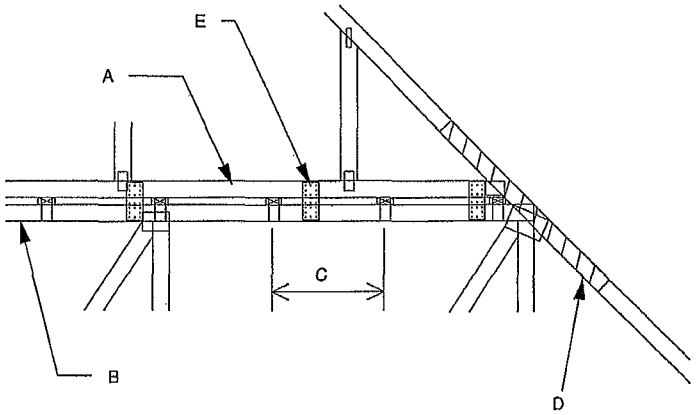
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED

B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

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

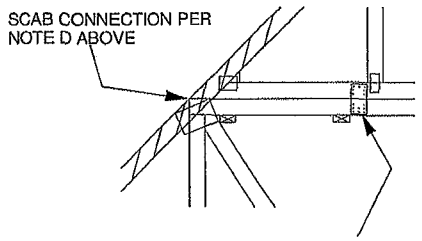
D - 2 X__ X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4 O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND
1 WIND SPEED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

E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) 0.131" X 1.5" PER MEMBER STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

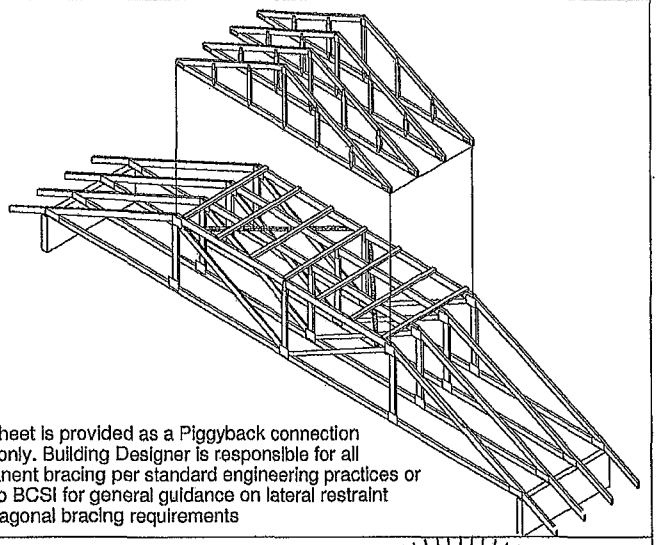


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

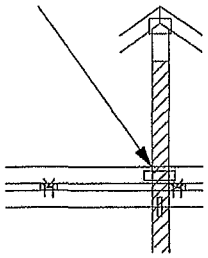


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O C. W/ (4) 0.131" X 1 5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0 5" EDGE DISTANCE



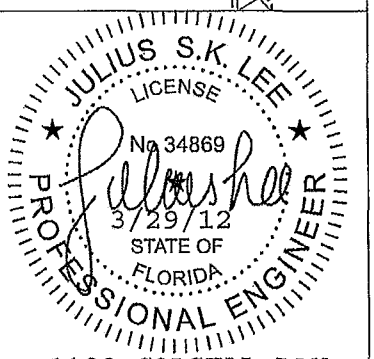
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O C. FROM EACH FACE (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH *THE PIGGYBACK AND THE BASE TRUSS DESIGN*



1109 COASTAL BAY
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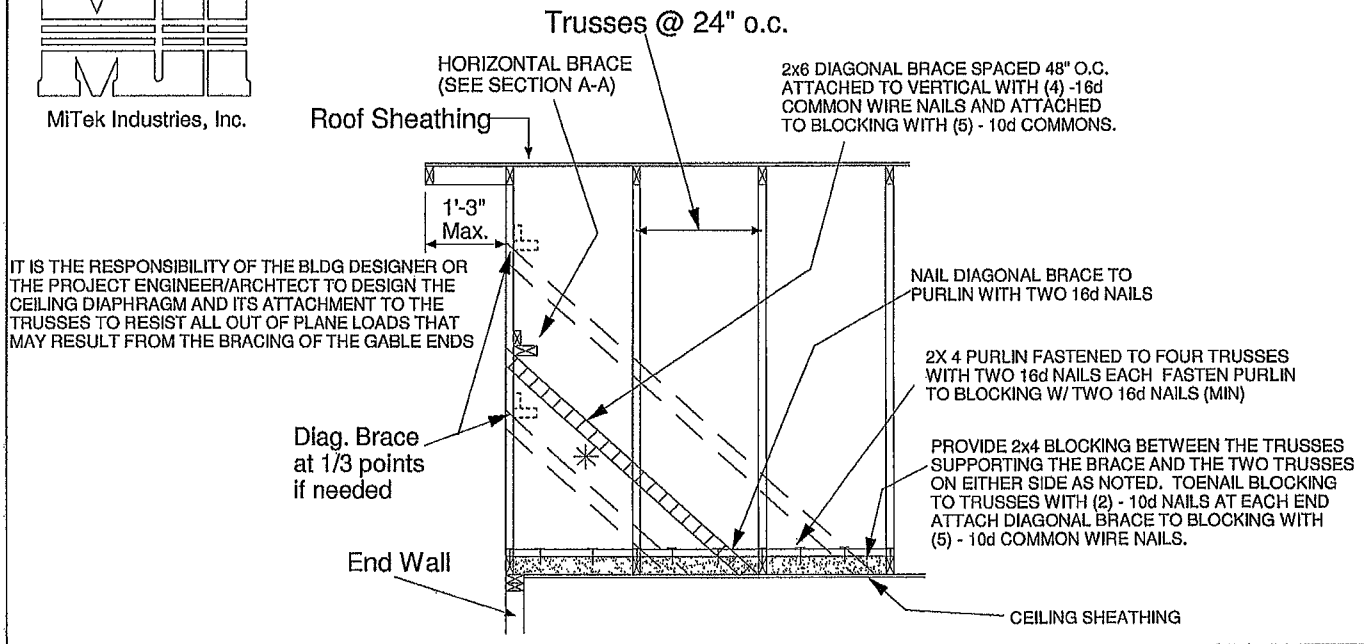
FEBRUARY 14, 2012	Standard Gable End Detail	SHEET 2

MiTek Industries, Inc.

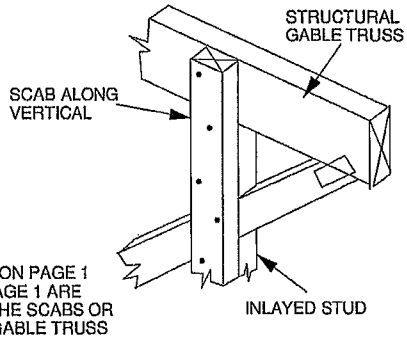
ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



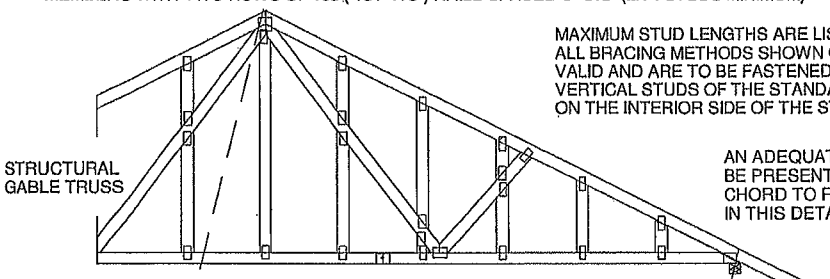
BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED.
METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.
METHOD 2 : ATTACH 2X_ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

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

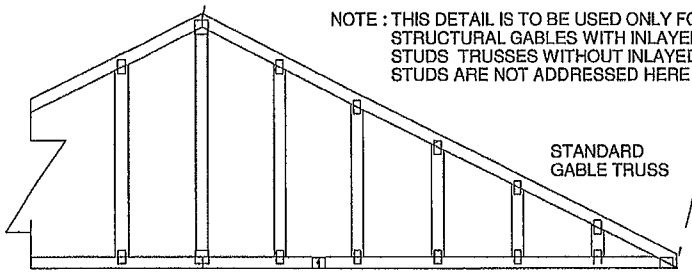


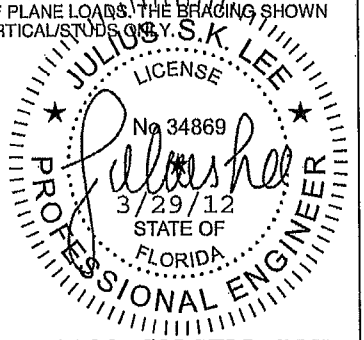
MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1 ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



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

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





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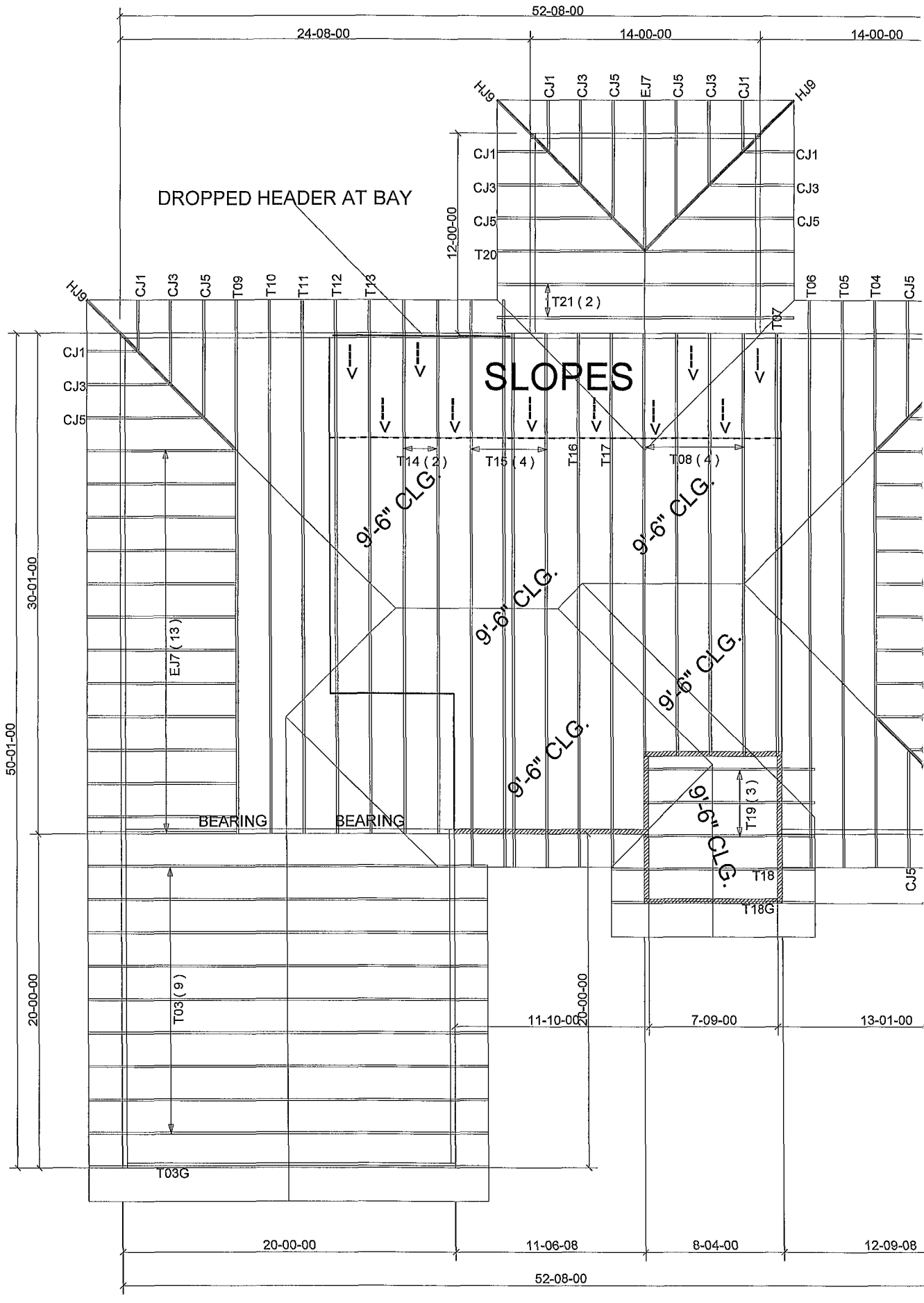
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24-08-00
14-00-00
14-00-00
HJ9
CJ1
CJ3
CJ5
EJ7
CJ5
CJ3
CJ1
HJ9
CJ1
CJ3
CJ5
T20
12-00-00
DROPPED HEADER AT BAY
T21 (2)
HJ9
CJ1
CJ3
CJ5
T09
T10
T11
T12
T13
T06
T05
T04
CJ5
T07
CJ1
CJ3
CJ5
SLOPES
T14 (2)
T15 (4)
T16
T17
T08 (4)
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
30-01-00
50-01-00
EJ7 (13)
BEARING
BEARING
T19 (3)
T18
T18G
CJ5
T03 (9)
20-00-00
20-00-00
11-10-00
7-09-00
13-01-00
T03G
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