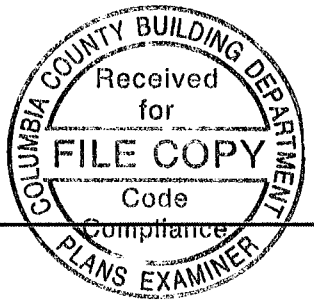
JULIUS LEE PE.



RE: 540831 - FRANKS - SPEC HOUSE

1109 COASTAL BAY BLVD, BOYNTON BEACH, FL 33435

Site Information:
Project Customer: FRANKS - O/B Project Name: 540831 Model Custom
Lot/Block: 5 Subdivision: Huntington
Address:
City. Columbia Cty State: FL

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

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 31 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.

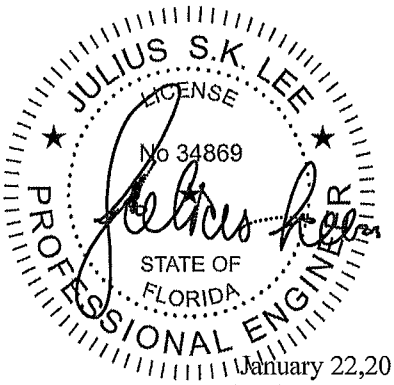
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I7738544	CJ01	1/22/014	18	I7738561	T07	1/22/014
2	I7738545	CJ01A	1/22/014	19	I7738562	T08	1/22/014
3	I7738546	CJ02	1/22/014	20	I7738563	T09	1/22/014
4	I7738547	CJ02A	1/22/014	21	I7738564	T10	1/22/014
5	I7738548	CJ03	1/22/014	22	I7738565	T11	1/22/014
6	I7738549	CJ03A	1/22/014	23	I7738566	T12	1/22/014
7	I7738550	EJ01	1/22/014	24	I7738567	T13	1/22/014
8	I7738551	EJ01A	1/22/014	25	I7738568	T14	1/22/014
9	I7738552	HJ01	1/22/014	26	I7738569	T14G	1/22/014
10	I7738553	HJ01A	1/22/014	27	I7738570	T15	1/22/014
11	I7738554	T01	1/22/014	28	I7738571	T15G	1/22/014
12	I7738555	T01G	1/22/014	29	I7738572	T16	1/22/014
13	I7738556	T02	1/22/014	30	I7738573	T17	1/22/014
14	I7738557	T03	1/22/014	31	I7738574	T18	1/22/014
15	I7738558	T04	1/22/014				
16	I7738559	T05	1/22/014				
17	I7738560	T06	1/22/014				

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

Truss Design Engineer's Name: Julius Lee

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

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



January 22,2014

Julius Lee

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738544
540831	CJ01	Jack-Open Truss	6	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries Inc. Wed Jan 22 10:12:11 2014 Page 1

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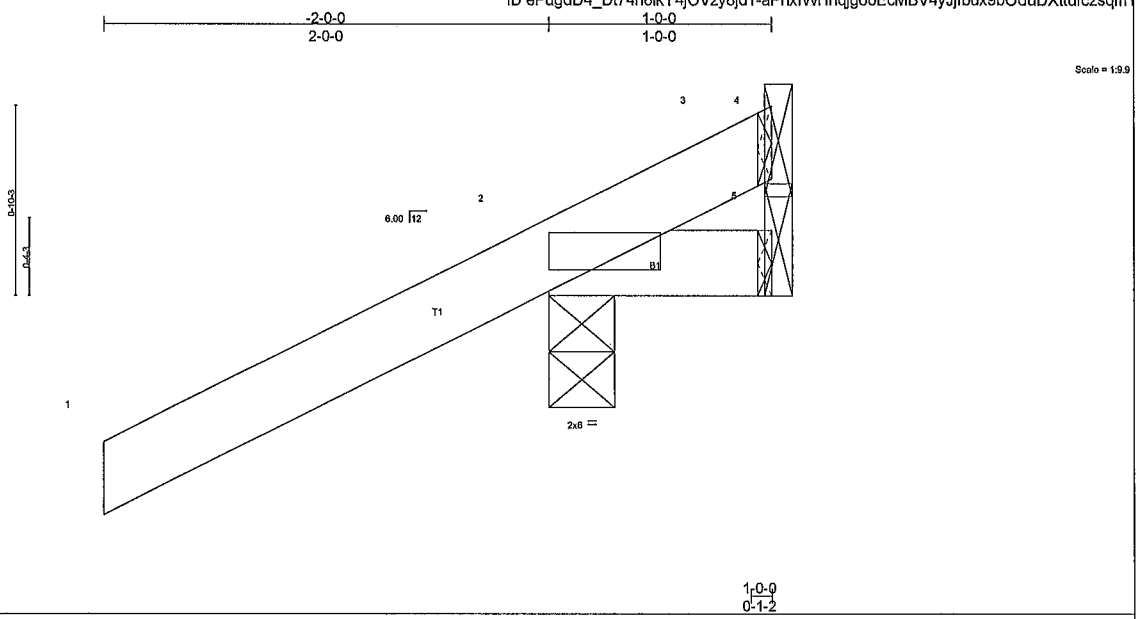


Plate Offsets (X,Y) [2.0-6-0,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0 00	8	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 06	Vert(TL)	0 00	8	>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=184/0-3-8 (min 0-1-8) 5=-24/Mechanical, 3=-21/Mechanical
Max Horz 2=67(LC 12)
Max Uplift2=-138(LC 12) 5=-30(LC 2), 3=-27(LC 2)
Max Grav 2=225(LC 2) 5=24(LC 16) 3=18(LC 8)

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

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 30 lb uplift at joint 5 and 27 lb uplift at joint 3.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee PE: Florida P E. License No. 34869: Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard

January 22,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738546
540831	CJ02	Jack-Open Truss	6	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12.13 2014 Page 1

ID ePugdD4_Dt74n8ikY4jOVzy8jd1-XophjCJxLKwqGXlklw6QO8kxNlpwsXOW?AM?kVzsqmW

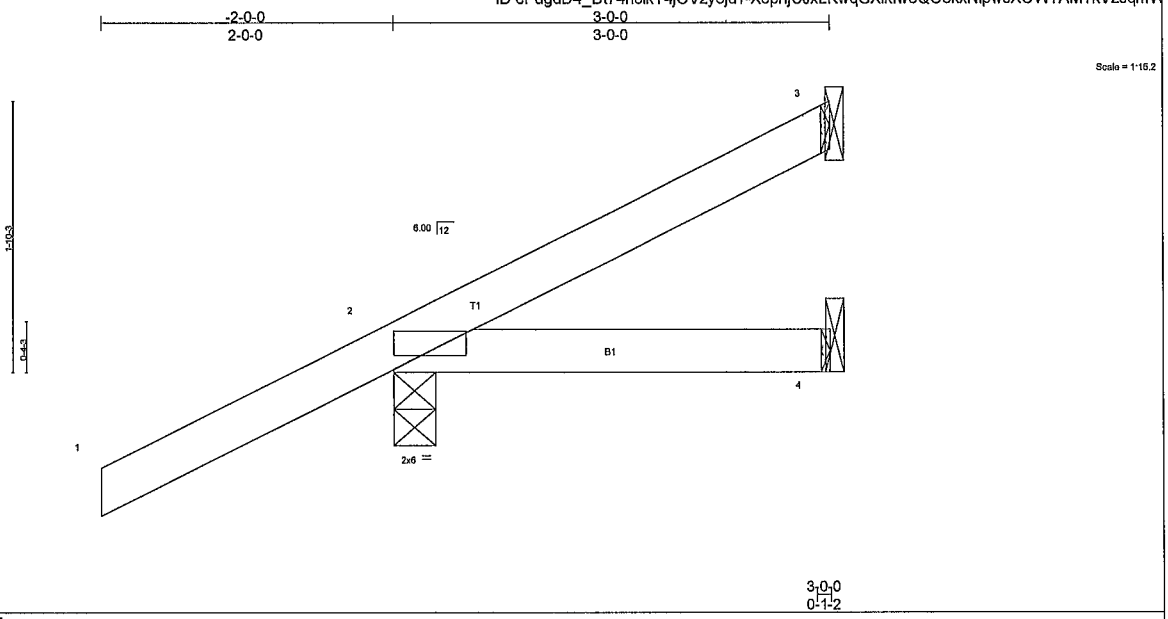


Plate Offsets (X,Y). [2:0-6-0,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0 07	Vert(TL)	0.01	4-7	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 13 lb	FT = 20%

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

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

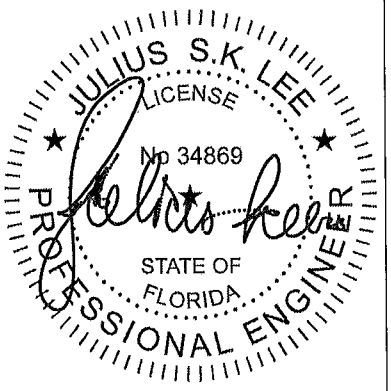
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=42/Mechanical, 2=193/0-3-8 (min. 0-1-8) 4=11/Mechanical
Max Horz 2=113(LC 12)
Max Uplift3=-50(LC 12) 2=-121(LC 12) 4=-21(LC 9)
Max Grav 3=52(LC 2) 2=233(LC 2) 4=33(LC 3)

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

NOTES (7-9)
1) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpi=0.18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3 121 lb uplift at joint 2 and 21 lb uplift at joint 4.
6) 'Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee PE: Florida P E License No. 34869; Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard



January 22,2014

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

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738548
540831	CJ03	Jack-Open Truss	6	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12:14 2014 Page 1

ID:ePugdD4_Dt74n8ikY4jOVzy8jd1-?_N3wYKZ6e2hthKxsddfxLH6797eb_dgDq6YGxzsqmV

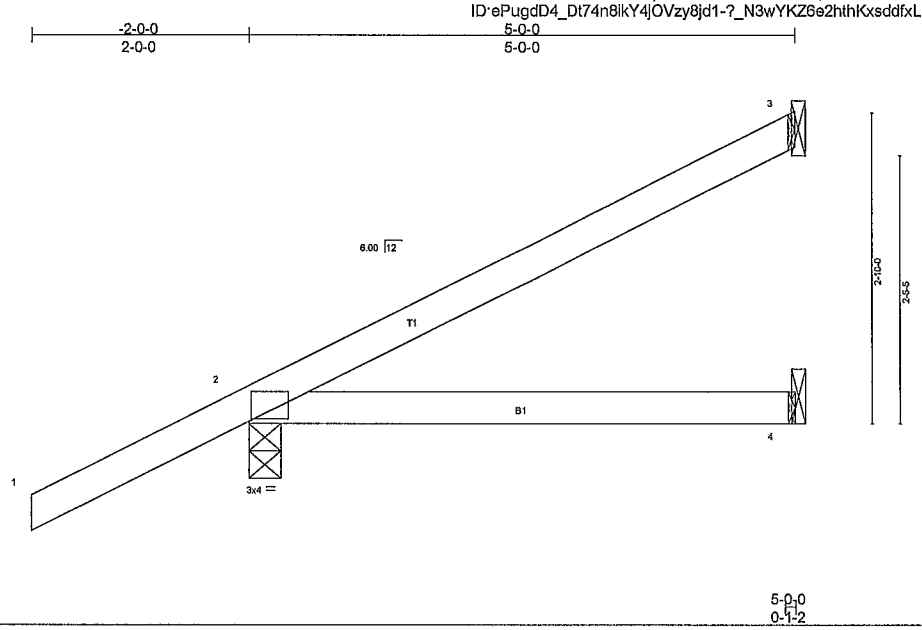


Plate Offsets (X,Y). [2:0-4-4,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0 07	4-7	>904	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.23	Vert(TL)	0.06	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=162(LC 12)
Max Uplift 3=-93(LC 12) 2=-148(LC 12) 4=-35(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=-330/589
BOT CHORD 2-4=-952/504

NOTES (7-9)
1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpi=0.18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1 60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 3, 148 lb uplift at joint 2 and 35 lb uplift at joint 4.
6) 'Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE Florida P E. License No. 34869 Address 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

January 22,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738550
540831	EJ01	Jack-Partial Truss	15	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12:16 2014 Page 1

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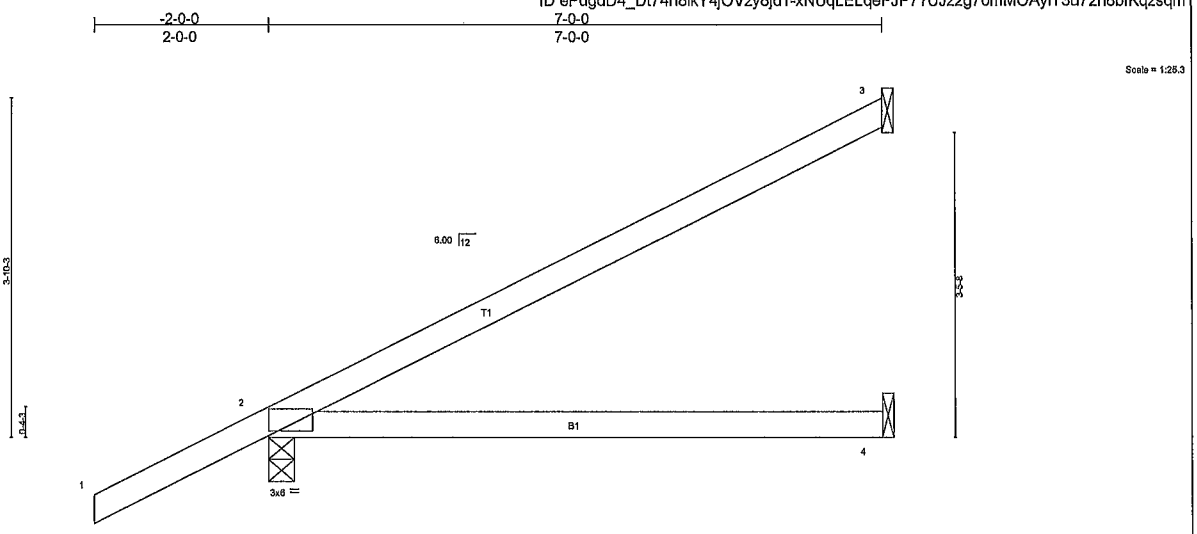


Plate Offsets (X,Y): [2:0-6-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	0.24	4-7	>346	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.46	Vert(TL)	0.21	4-7	>401	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: 26 lb	FT = 20%

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

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

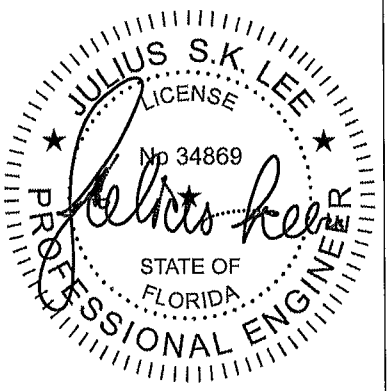
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=113/Mechanical 2=318/0-3-8 (min 0-1-8) 4=32/Mechanical
Max Horz 2=144(LC 12)
Max Uplift3=-86(LC 12) 2=-141(LC 9), 4=-48(LC 9)
Max Grav 3=139(LC 2), 2=380(LC 2), 4=79(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-739/1501
BOT CHORD 2-4=-2264/1148

NOTES (7-9)
1) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4 2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=1 60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No 2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 141 lb uplift at joint 2 and 48 lb uplift at joint 4.
6) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE. Florida P E. License No. 34869 Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard



January 22,2014

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

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738552
540831	HJ01	Diagonal Hip Girder	3	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12:19 2014 Page 1

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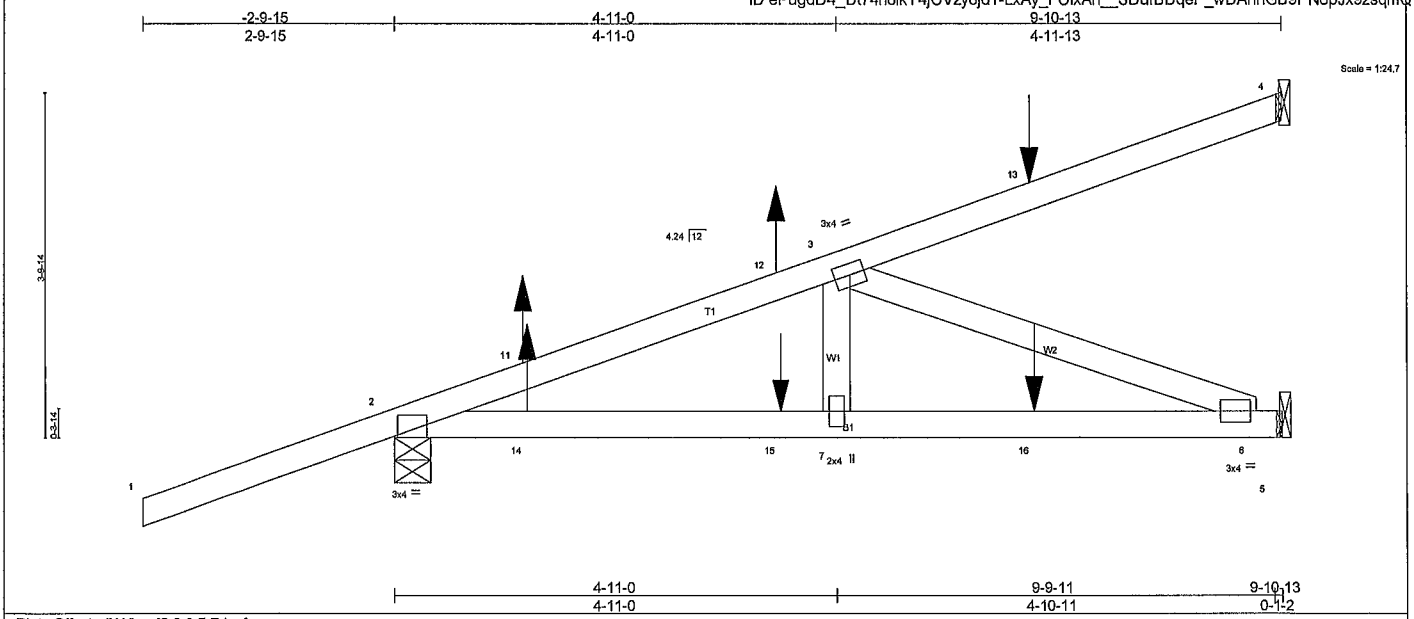

Plate Offsets (X,Y). [2:0-0-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	0.09	6-7	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.09	6-7	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 30	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 7-3-1 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=116/Mechanical, 2=370/0-4-15 (min. 0-1-8) 5=198/Mechanical
Max Horz 2=234(LC 4)
Max Uplift 4=-133(LC 4) 2=-372(LC 4), 5=-263(LC 4)
Max Grav 4=141(LC 2), 2=454(LC 2) 5=230(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-11=-605/489 11-12=-554/515 3-12=-552/500
BOT CHORD 2-14=-594/552 14-15=-594/552 7 15=-594/552 7-16=-594/552, 6-16=-594/552
WEBS 3-6=-590/635

NOTES (9-11)
1) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph· TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp C Encl GCpi=0.18, MWFRS (envelope) gable end zone; porch left and right exposed· Lumber DOL=1.60 plate grip DOL=1 60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 4, 372 lb uplift at joint 2 and 263 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) 43 lb down and 46 lb up at 1-5-12 43 lb down and 46 lb up at 1-5-12, 3 lb down and 50 lb up at 4-3-11 3 lb down and 50 lb up at 4-3-11 and 43 lb down and 93 lb up at 7-1-10 and 43 lb down and 93 lb up at 7-1-10 on top chord, and 19 lb down and 29 lb up at 1-5-12 19 lb down and 29 lb up at 1-5-12, 3 lb down and 31 lb up at 4-3-11 3 lb down and 31 lb up at 4-3-11 and 26 lb down and 45 lb up at 7-1-10 and 26 lb down and 45 lb up at 7-1 10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section loads applied to the face of the truss are noted as front (F) or back (B)
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer· Julius Lee PE Florida P E. License No 34869· Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular· Lumber Increase=1.25, Plate Increase=1 25
Uniform Loads (plf)
Vert: 1-4=-44, 5-8=-10

Continued on page 2

January 22,2014

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

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738553
540831	HJ01A	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries Inc. Wed Jan 22 10:12:20 2014 Page 1

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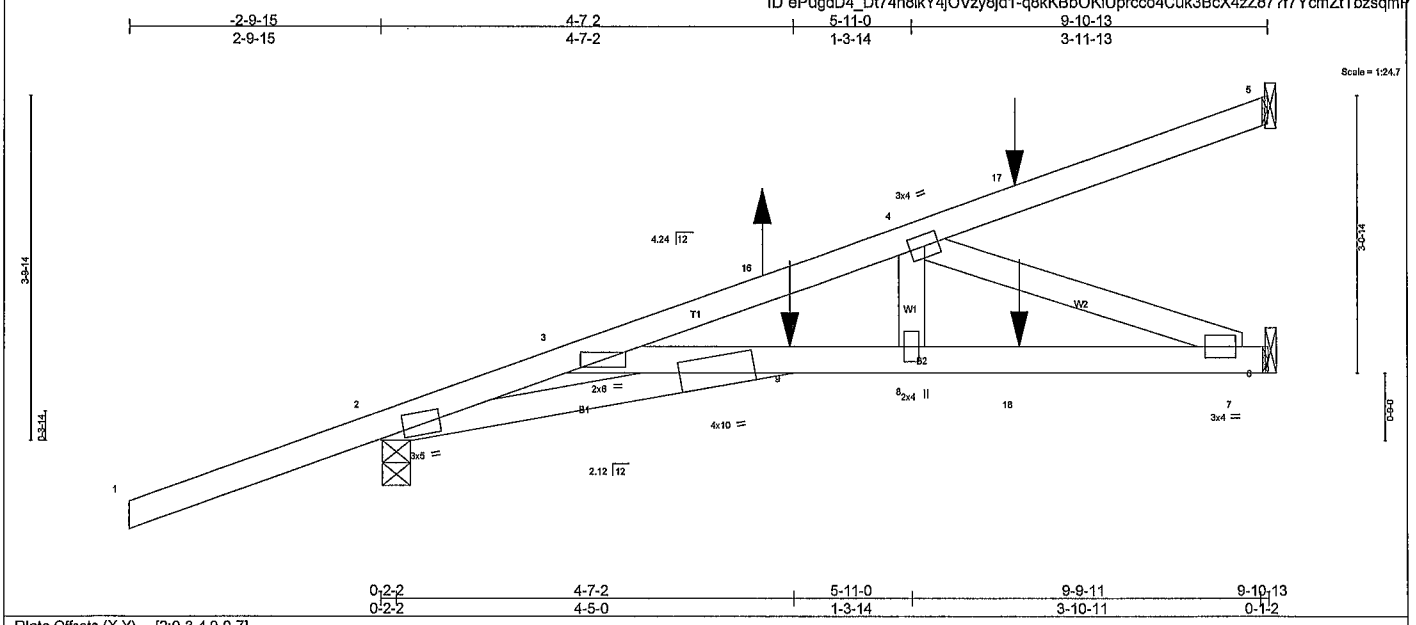

Plate Offsets (X,Y) [2:0-3-4,0-0-7]

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 05	9	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.07	9	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.26	Horz(TL)	0 02	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							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 8-0-1 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=76/Mechanical 6=234/Mechanical 2=447/0-3-13 (min. 0-1-8)
Max Horz 2=234(LC 4)
Max Uplift5=-80(LC 4) 6=-188(LC 8), 2=-370(LC 4)
Max Grav 5=93(LC 2) 6=274(LC 2) 2=534(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-739/417 3-16=-858/568, 4-16=-713/455
BOT CHORD 2-9=-506/655, 3-9=-409/562 8-9=-529/702, 8-18=-529/702 7 18=-529/702
WEBS 4-7=-749/564, 4-8=-146/278

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 C Encl GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1 60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
5) 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 5, 188 lb uplift at joint 6 and 370 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6 lb down and 47 lb up at 4-3-11 and 6 lb down and 47 lb up at 4-3-11 and 24 lb down and 70 lb up at 7 1 10 on top chord, and 4 lb down and 3 lb up at 4-6-15, 4 lb down and 3 lb up at 4-6-15, and 68 lb down and 79 lb up at 7-1-10, and 44 lb down and 23 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) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
12) Truss Design Engineer; Julius Lee PE. Florida P E. License No 34869; Address. 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard
1) Regular; Lumber Increase=1 25, Plate Increase=1.25
Uniform Loads (plf)
Vert. 1-5=-44, 9-13=-10, 6-9=-10

Continued on page 2

January 22,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738554
540831	T01	Common Truss	5	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12:21 2014 Page 1

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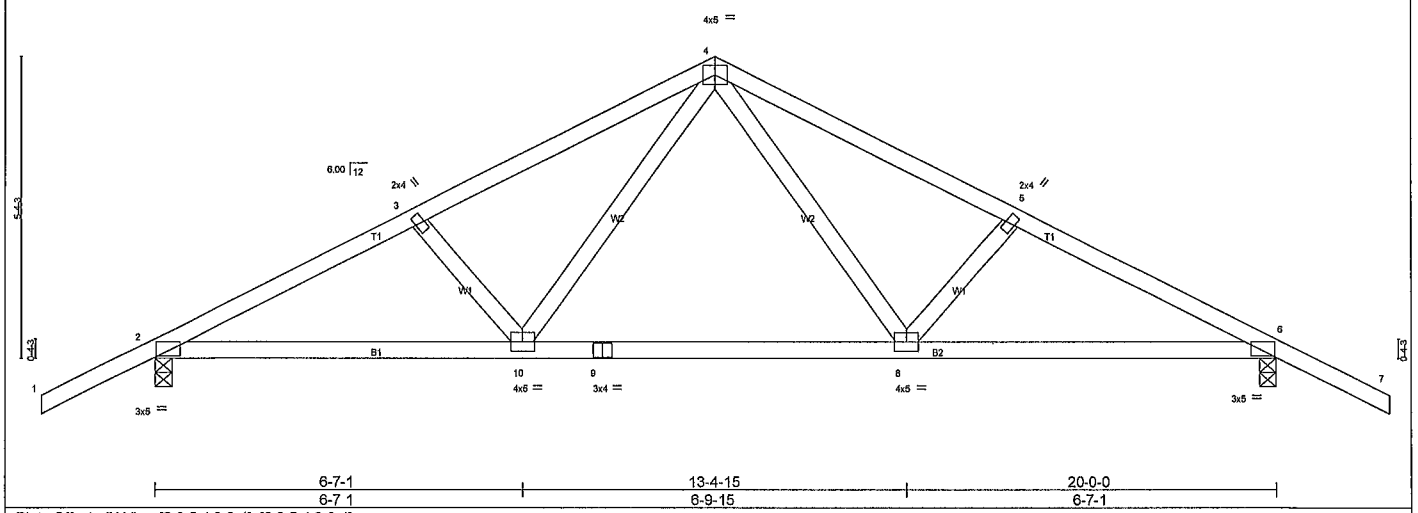

Plate Offsets (X,Y). [2:0-5-4,0-0-4], [6:0-5-4,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.25	8-10	>945	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	0.27	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 4-3-9 oc purlins
BOT CHORD Rigid ceiling directly applied or 6-6-7 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=801/0-3-8 (min 0-1 8) 6=801/0-3-8 (min 0-1-8)
Max Horz 2=126(LC 12)
Max Uplift2=-455(LC 12) 6=-455(LC 13)
Max Grav 2=953(LC 2), 6=953(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1713/992 3-4=-1572/955, 4-5=-1571/954, 5-6=-1712/992
BOT CHORD 2-10=-757/1527 9-10=-392/1012, 8-9=-392/1012 6-8=-765/1542
WEBS 4-8=-370/640, 5-8=-270/261 4-10=-370/640, 3-10=-271/261

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl. GCpi=0 18; MWFRS (envelope) 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 455 lb uplift at joint 2 and 455 lb uplift at joint 6
7) 'Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note. Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P E. License No. 34869 Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

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

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

January 22,2014

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

Job	Truss	Truss Type	Qty	Ply	FRANKS - SPEC HOUSE
540831	T02	Common Truss	5	1	I7738556
					Job Reference (optional)

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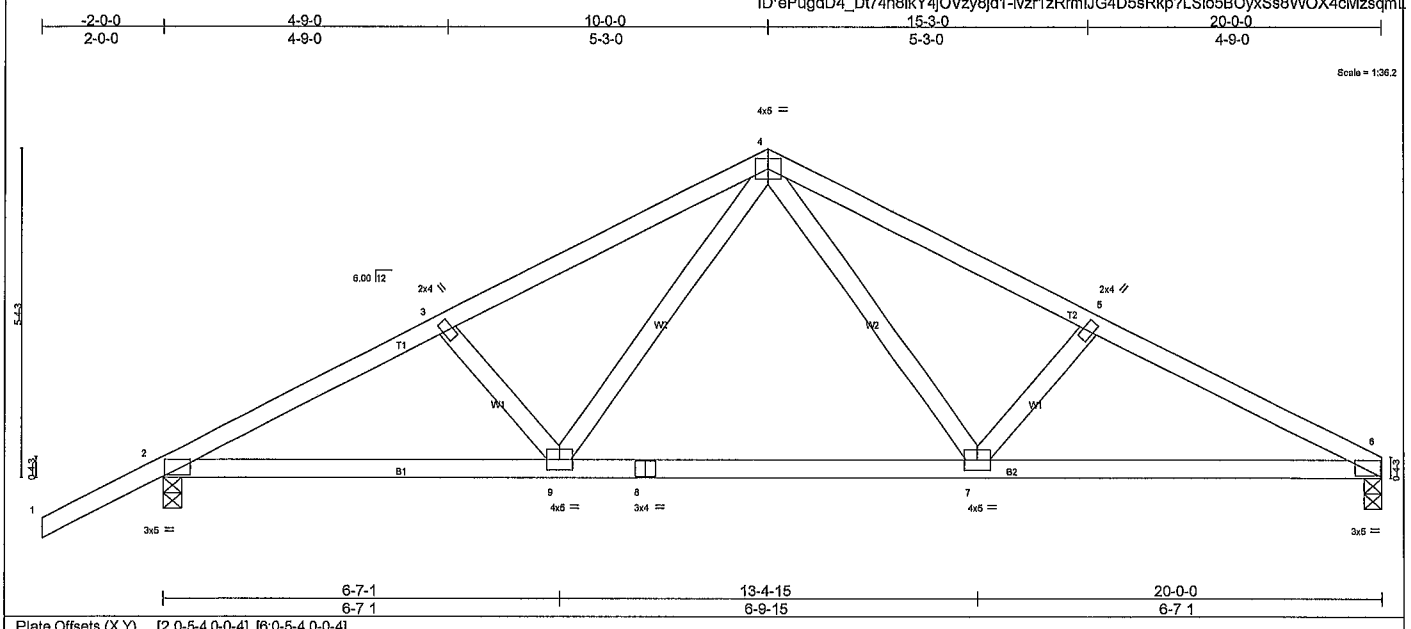

Plate Offsets (X,Y) [2:0-5-4,0-0-4], [6:0-5-4,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.25	7-9	>944	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.87	Vert(TL)	-0.38	7-9	>632	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 93 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-3-9 oc bracing

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

REACTIONS (lb/size) 6=711/0-3-8 (min. 0-1-8) 2=802/0-3-8 (min. 0-1-8)
Max Horz 2=89(LC 12)
Max Uplift6=-218(LC 13) 2=-256(LC 12)
Max Grav 6=843(LC 2) 2=955(LC 2)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1716/997, 3-4=-1575/960, 4-5=-1572/966, 5-6=-1712/1004
BOT CHORD 2-9=-816/1481 8-9=-444/951 7-8=-444/951 6-7=-824/1476
WEBS 4-7=-378/635, 5-7=-268/266, 4-9=-368/639 3-9=-271/261

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind. ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4.2psf BCDL=3.0psf h=18ft; Cat. II, Exp C, Encl. GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone;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) 6=218, 2=256.
7) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
8) In the LOAD CASE(S) section loads applied to the face of the truss are noted as front (F) or back (B)
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee PE. Florida P E. License No. 34869 Address 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44 4-6=-44, 9-13=-10, 7-9=-61(F=-51), 7 10=-10

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

January 22,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS - SPEC HOUSE
540831	T03	Half Hip Truss	1	1	I7738557 Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-3=-44, 3-7=-44, 8-13=-10
   Concentrated Loads (lb)
      Vert: 3=-69(F) 5=-69(F) 11=-22(F) 12=-210(F) 16=-69(F) 17=-69(F) 18=-69(F) 19=-69(F) 20=-69(F) 21=-69(F) 22=-69(F) 23=-22(F) 24=-22(F) 25=-22(F) 26=-22(F) 27=-22(F) 28=-22(F) 29=-22(F)

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

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738559
540831	T05	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

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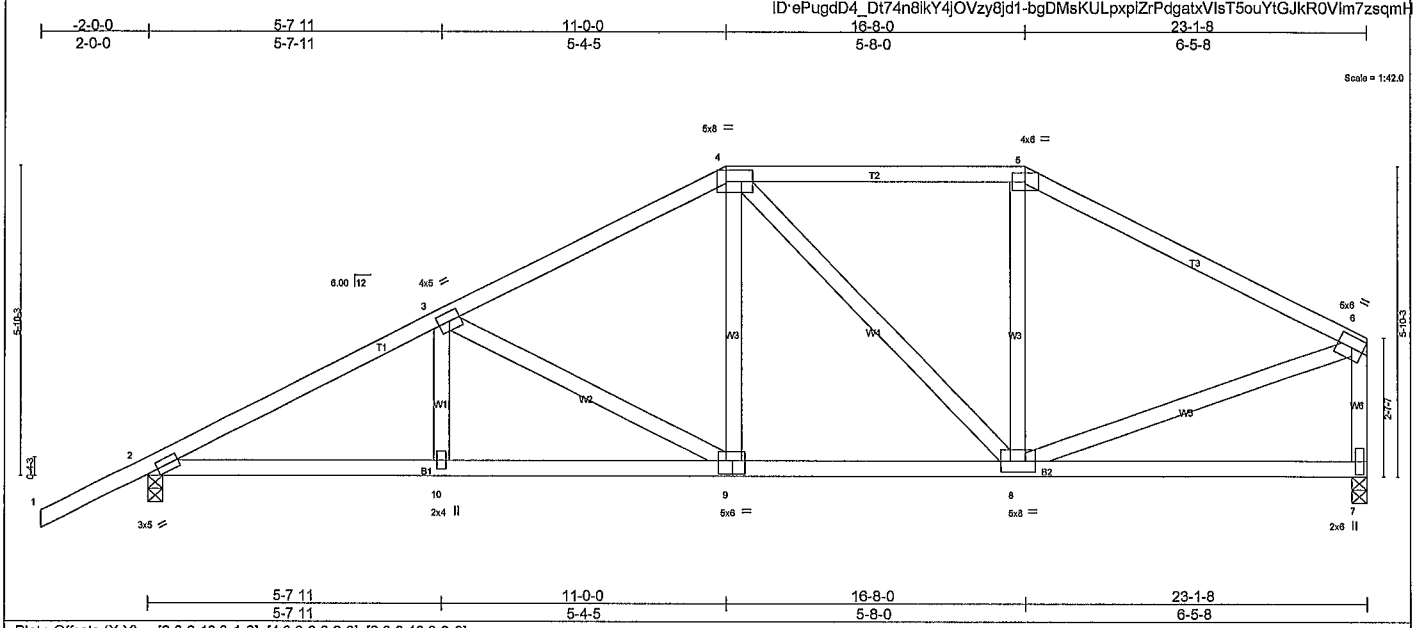

Plate Offsets (X,Y): [2,0-2-10,0-1-8], [4:0-6-0,0-2-8], [9:0-2-12,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	0.07	9-10	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0 10	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0 03	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 128 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-1 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-6 oc bracing

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

REACTIONS (lb/size) 2=716/0-3-8 (min. 0-1-8) 7=613/0-3-8 (min. 0-1-8)
Max Horz 2=146(LC 12)
Max Uplift2=-214(LC 12), 7=-143(LC 13)
Max Grav 2=852(LC 2), 7=726(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1329/733 3-4=-959/582 4-5=-688/495, 5-6=-806/472, 6-7=-732/453
BOT CHORD 2-10=-693/1157 9-10=-693/1157 8-9=-410/785
WEBS 3-9=-425/322, 4-9=-122/276, 4-8=-252/121 6-8=-301/626

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4 2psf BCDL=3.0psf h=18ft; Cat. II Exp C, Encl GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone;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) 2=214, 7=143.
8) 'Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer Julius Lee PE: Florida P E License No. 34869: Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard

January 22,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7736561
540831	T07	Special Truss	3	1	Job Reference (optional)	

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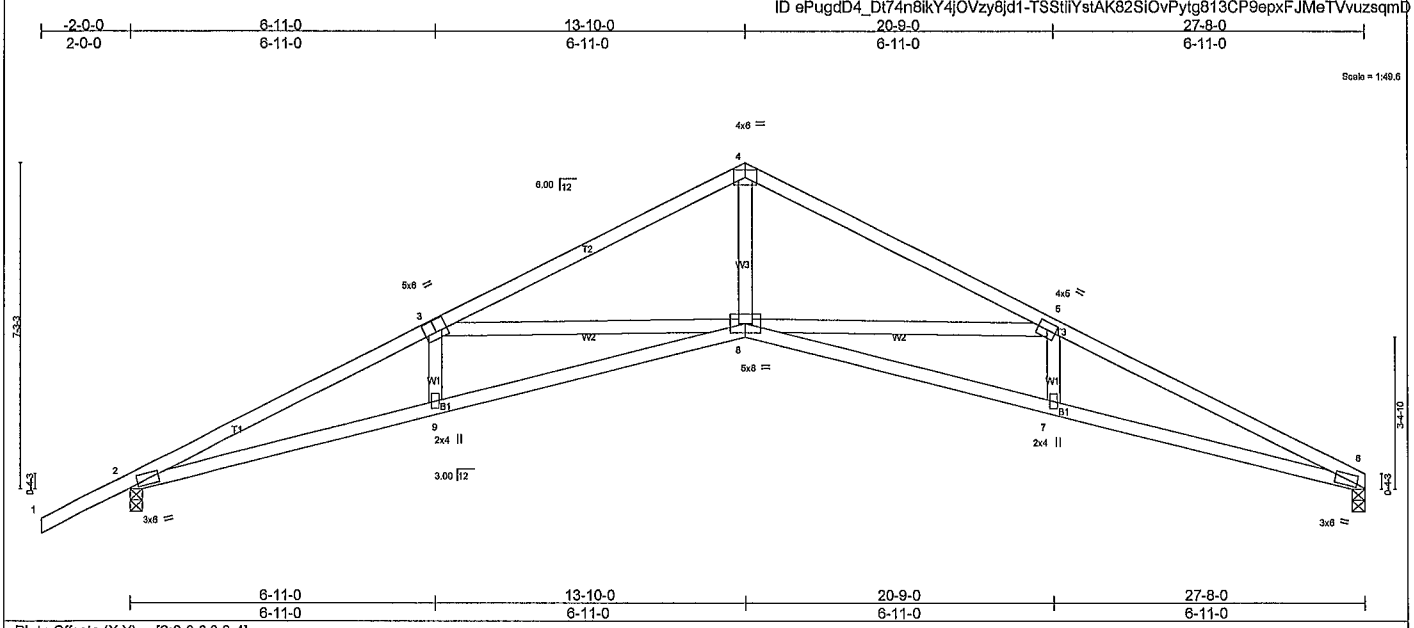


6-11-0		13-10-0		20-9-0		27-8-0					
6-11-0		6-11-0		6-11-0		6-11-0					

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0.86	Vert(LL)	0.39	8-9	>843	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.63	8-9	>527	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.82	Horz(TL)	0.41	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 122 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-10-6 oc bracing

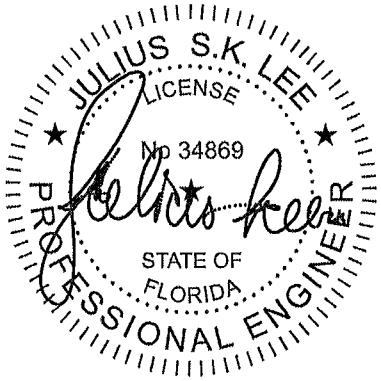
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=745/0-3-8 (min 0-1 8), 2=837/0-3-8 (min. 0-1-8)
Max Horz 2=113(LC 12)
Max Uplift6=-215(LC 13), 2=-254(LC 12)
Max Grav 6=882(LC 2), 2=996(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3019/1663, 3-4=-2100/1111 4-5=-2101/1112, 5-6=-3037/1687
BOT CHORD 2-9=-1422/2704, 8-9=-1426/2713, 7-8=-1451/2730 6-7=-1448/2723
WEBS 4-8=-687/1428, 5-8=-896/702 3-8=-879/677

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl GCpi=0 18 MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Bearing at joint(s) 6, 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) 6=215 2=254.
8) "Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee PE: Florida P E. License No. 34869 Address. 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



January 22,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS - SPEC HOUSE	I7738563
540831	T09	Half Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

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2-0-0	3-3-8	3-8-8	5-4-0	3-5-12	3-5-12

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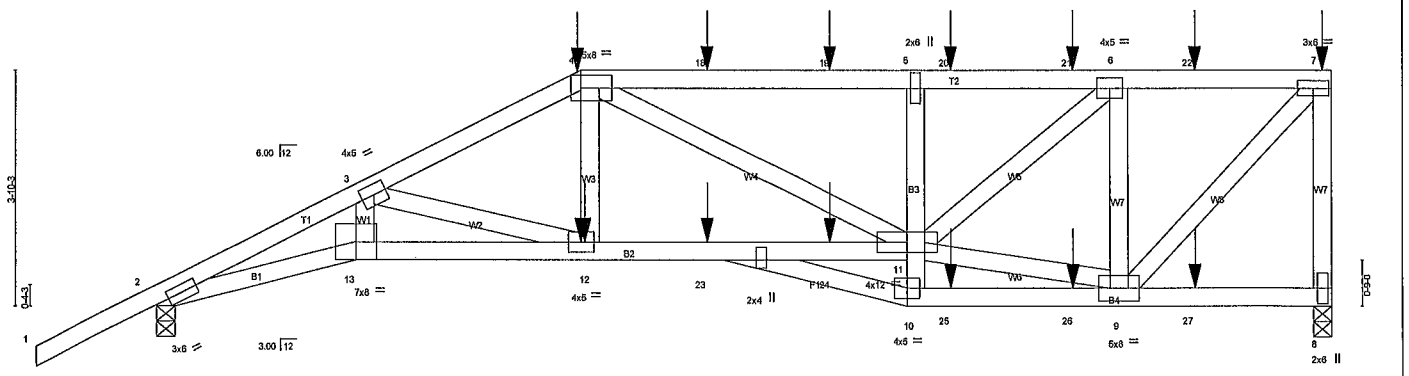

3-3-8	7-0-0	12-4-0	15-9-12	19-3-8
3-3-8	3-8-8	5-4-0	3-5-12	3-5-12

Plate Offsets (X,Y). [4,0-6-0,0-2-8], [14,0-2-7,0-1-0]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0 55	Vert(LL) 0.15 12-13 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0 95	Vert(TL) -0.27 11 12 >842 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0 49	Horz(TL) 0 14 8 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 117 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B3, 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 5-0-6 oc bracing

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

REACTIONS (lb/size) 8=992/0-3-8 (min. 0-1 8) 2=941/0-3-8 (min. 0-1-8)
Max Horz 2=146(LC 8)
Max Uplift 8=-627(LC 5) 2=-441(LC 8)
Max Grav 8=1176(LC 2) 2=1117(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3195/1407 3-4=-2175/964 4-18=-1871/911 18-19=-1871/911 5-19=-1871/911 5-20=-1815/886, 20-21=-1815/886 6-21=-1815/886, 6-22=-886/466, 7-22=-886/466 7-8=-1150/621
BOT CHORD 2-13=-1357/2863 12-13=-1285/2709 12-23=-907/1964, 23-24=-907/1964, 11-24=-907/1964 5-11=-441/251
WEBS 3-13=-272/609, 3-12=-805/405, 4-12=-257/636, 9-11=-381/802 6-11=-530/1176, 6-9=-1068/520 7-9=-682/1296

NOTES (12-14)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl. GCpi=0.18, MWFRS (envelope) 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) 8=627, 2=441
9) "Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 76 lb up at 7-0-0 63 lb down and 76 lb up at 9-0-12, 63 lb down and 76 lb up at 11-0-12 85 lb down and 92 lb up at 13-0-12, 85 lb down and 92 lb up at 15-0-12, and 85 lb down and 92 lb up at 17-0-12 and 85 lb down and 92 lb up at 19-1-12 on top chord and 264 lb down and 198 lb up at 7-0-0 49 lb down and 58 lb up at 13-0-12 , and 49 lb down and 58 lb up at 15-0-12 and 49 lb down and 58 lb up at 17-0-12 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
13) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
14) Truss Design Engineer: Julius Lee, PE. Florida P E. License No 34869: Address. 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Continued on page 2

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

January 22,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS - SPEC HOUSE	I7738564
640831	T10	Half Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12:36 2014 Page 1

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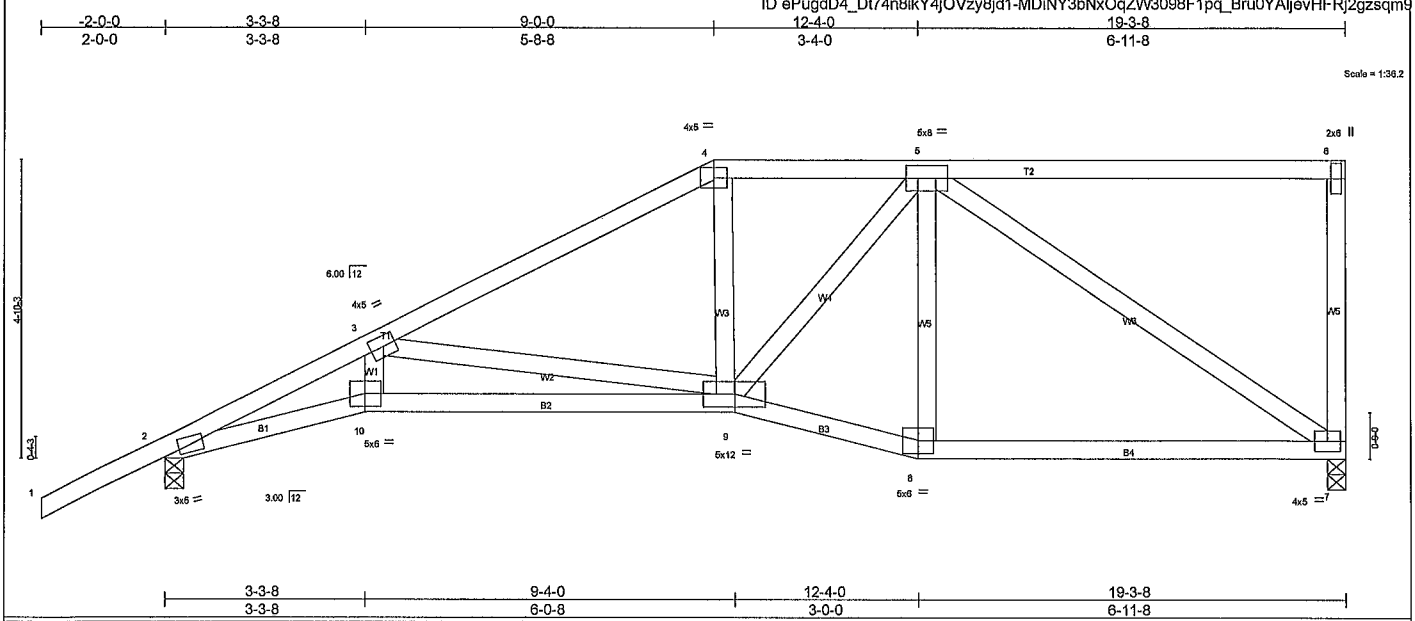

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.43	Vert(LL) 0.14 9-10 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.59	Vert(TL) -0.21 9-10 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(TL) 0.09 7 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 108 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 4-1-0 oc purlins except end verticals
BOT CHORD Rigid ceiling directly applied or 5-1-1 oc bracing

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

REACTIONS (lb/size) 7=511/0-3-8 (min. 0-1-8) 2=611/0-3-8 (min. 0-1-8)
Max Horz 2=180(LC 12)
Max Uplift 7=-178(LC 9), 2=-174(LC 12)
Max Grav 7=605(LC 2) 2=728(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2046/1200, 3-4=-938/508, 4-5=-823/522
BOT CHORD 2-10=-1290/1903 9-10=-1229/1794, 8-9=-410/669 7-8=-399/649
WEBS 3-10=-231/440, 3-9=-1000/722, 5-9=-200/280 5-7=-759/469

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 C, Encl GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) 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) 7=178 2=174.
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 SPp, represents new lumber design values as per SPIB.
12) Truss Design Engineer: Julius Lee, PE. Florida P E License No. 34869 Address 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

January 22,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738566
540831	T12	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

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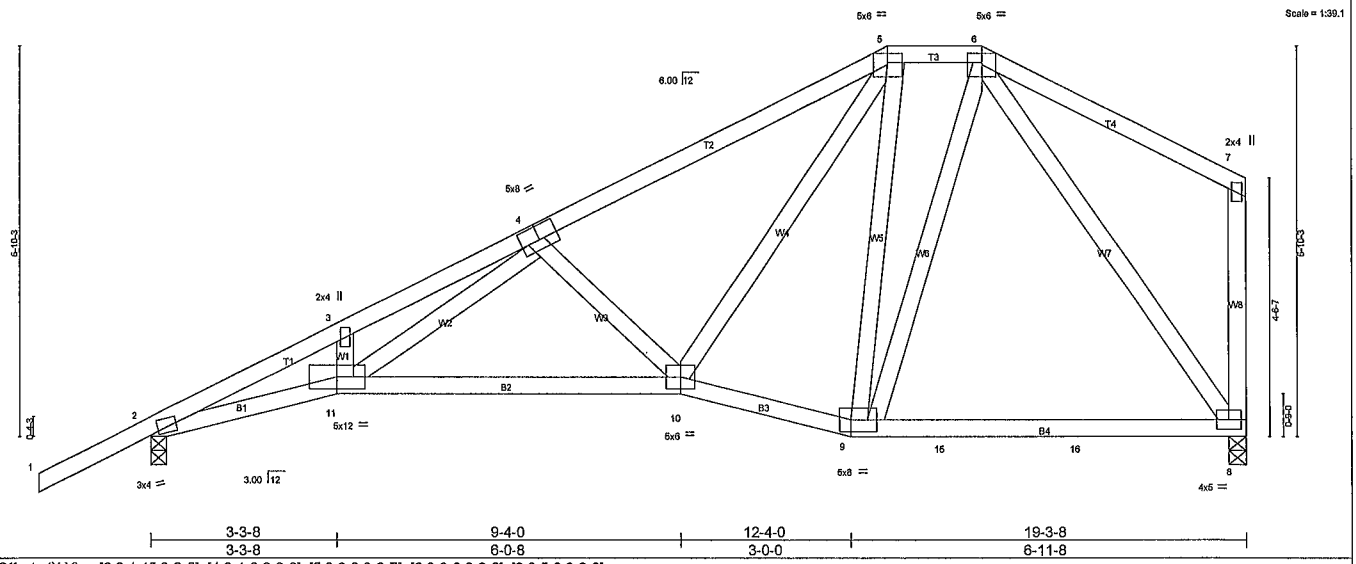

Plate Offsets (X,Y). [2,0-1-15,0-0-5], [4,0-4-0,0-3-0], [5:0-3-0,0-2-7], [6:0-3-0,0-2-0], [9:0-5-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	0.12	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.20	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.07	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 123 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 3-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-3 oc bracing.

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

REACTIONS (lb/size) 2=627/0-3-8 (min. 0-1-8) 8=567/0-3-8 (min. 0-1-8)
Max Horz 2=199(LC 12)
Max Uplift 2=-189(LC 12), 8=-144(LC 12)
Max Grav 2=729(LC 2) 8=605(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1994/1114, 3-4=-1954/1164, 4-5=-964/583 5-6=-516/387
BOT CHORD 2-11=-1178/1828 10-11=-769/1154, 9-10=-247/463, 9-15=-198/360 15-16=-198/360 8-16=-198/360
WEBS 4-11=-487/790, 4-10=-533/443 5-10=-427/637 5-9=-380/283, 6-9=-202/373, 6-8=-600/339

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 C; Encl GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf.
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=189, 8=144.
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 SPp, represents new lumber design values as per SPIB.
12) Truss Design Engineer: Julius Lee PE: Florida P E License No 34869: Address. 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

January 22,2014

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

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

Job	Truss	Truss Type	Qty	Ply	FRANKS - SPEC HOUSE	I7738568
540831	T14	SCISSOR TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12:41 2014 Page 1

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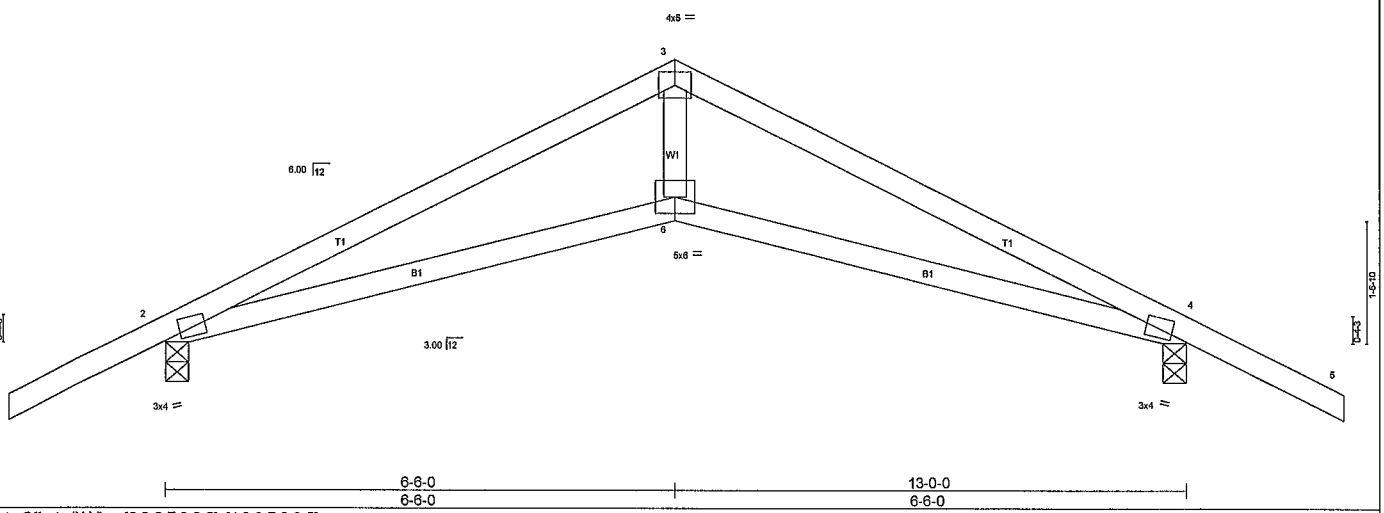

Plate Offsets (X,Y) [2:0-2-7,0-0-5], [4:0-2-7,0-0-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.07	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0 11	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 17	Horz(TL)	0.05	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 51 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-10 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 (lb/size) 2=439/0-3-8 (min. 0-1 8) 4=439/0-3-8 (min 0-1-8)
Max Horz 2=89(LC 12)
Max Uplift2=-252(LC 12) 4=-252(LC 13)
Max Grav 2=524(LC 2), 4=524(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-990/451 3-4=-989/449
BOT CHORD 2-6=-366/853, 4-6=-358/853
WEBS 3-6=-117/499

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind· ASCE 7-10· Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp C, Encl GCpi=0.18 MWFRS (envelope) 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) Bearing at joint(s) 2 4 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=252, 4=252.
8) Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer· Julius Lee, PE. Florida P E. License No. 34869 Address 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard

January 22,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS SPEC HOUSE	I7738570
540831	T15	SCISSOR TRUSS	2	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12.44 2014 Page 1

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2-0-0	4-4-12	4-7 4	3-8-8	5-3-8	2-0-0

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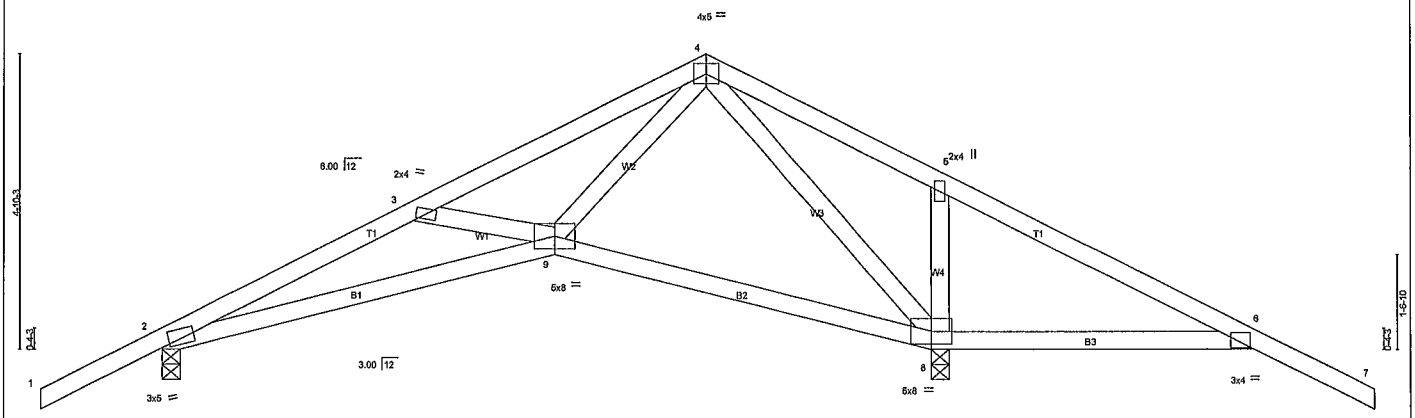

6-6-0	12-8-8	12-10-4	18-0-0
6-6-0	6-2-8	0-1-12	5-1-12

Plate Offsets (X,Y) [2.0-1 11,0-0-4], [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)	0.26	8-9	>583	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 56	Vert(TL)	0.23	8-9	>651	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 57	Horz(TL)	-0 04	8	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 85 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 5-4-9 oc bracing

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

REACTIONS (lb/size) 2=333/0-3-8 (min. 0-1-8) 8=815/0-3-8 (min. 0-1-8)
Max Horz 2=-116(LC 13)
Max Uplift 2=-232(LC 12) 8=-451(LC 13)
Max Grav 2=459(LC 27), 8=971(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-866/1174, 3-4=-530/843, 4-5=-775/654, 5-6=-907/661
BOT CHORD 2-9=-917/772 8-9=-164/323, 6-8=-550/957
WEBS 3-9=-396/486, 4-9=-982/454, 4-8=-833/1154, 5-8=-284/288

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf· BCDL=3.0psf· h=18ft; Cat. II Exp C Encl. GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever right exposed porch right exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
6) Bearing at joint(s) 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=232 8=451
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer· Julius Lee, PE: Florida P E. License No 34869: Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard

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

January 22,2014

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

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS - SPEC HOUSE	I7738572
540831	T16	SPECIAL TRUSS	2	1	Job Reference (optional)	

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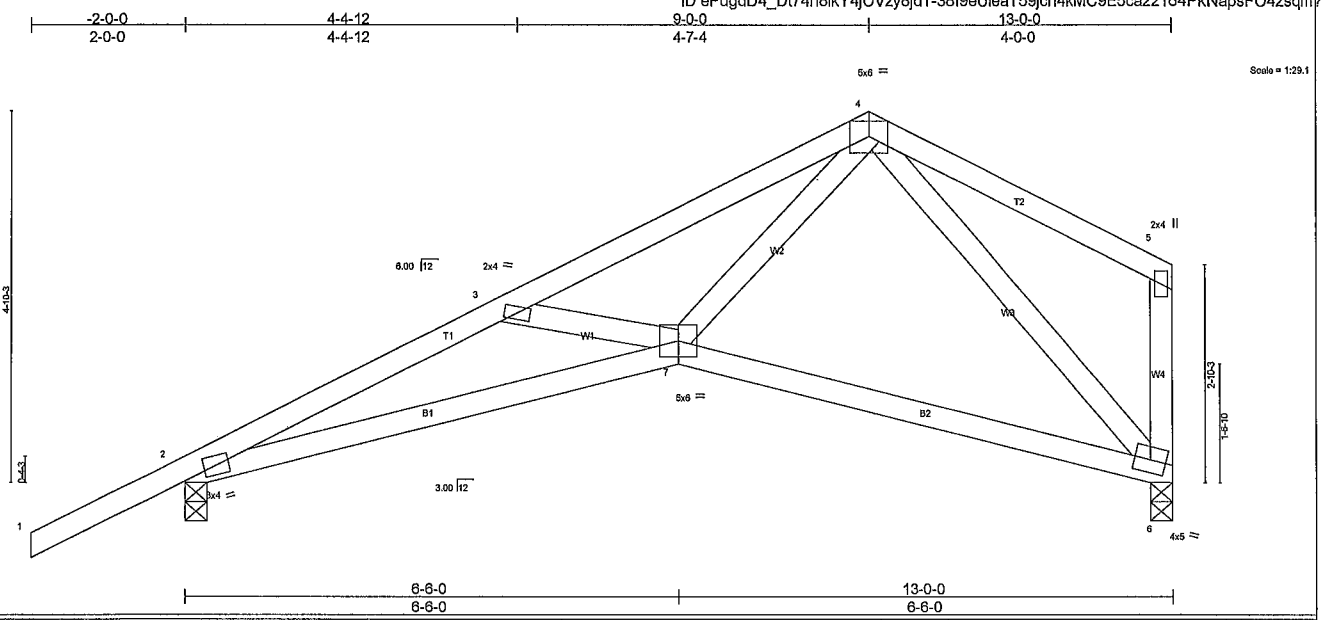

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0 13	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 66 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-4-10 oc bracing

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

REACTIONS (lb/size) 2=443/0-3-8 (min. 0-1-8), 6=339/0-3-8 (min 0-1-8)
Max Horz 2=138(LC 12)
Max Uplift2=-142(LC 12), 6=-97(LC 12)
Max Grav 2=528(LC 2) 6=402(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1265/854 3-4=-908/584
BOT CHORD 2-7=-865/1167 6-7=-224/349
WEBS 3-7=-379/375, 4-7=-400/661 4-6=-482/318

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl GCpi=0 18 MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1 60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Bearing at joint(s) 2 6 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) 6 except (jt=lb) 2=142
8) "Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer; Julius Lee PE: Florida P E. License No. 34869: Address 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard

January 22,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	FRANKS - SPEC HOUSE	I7738574
540831	T18	Common Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Jan 22 10:12:48 2014 Page 1

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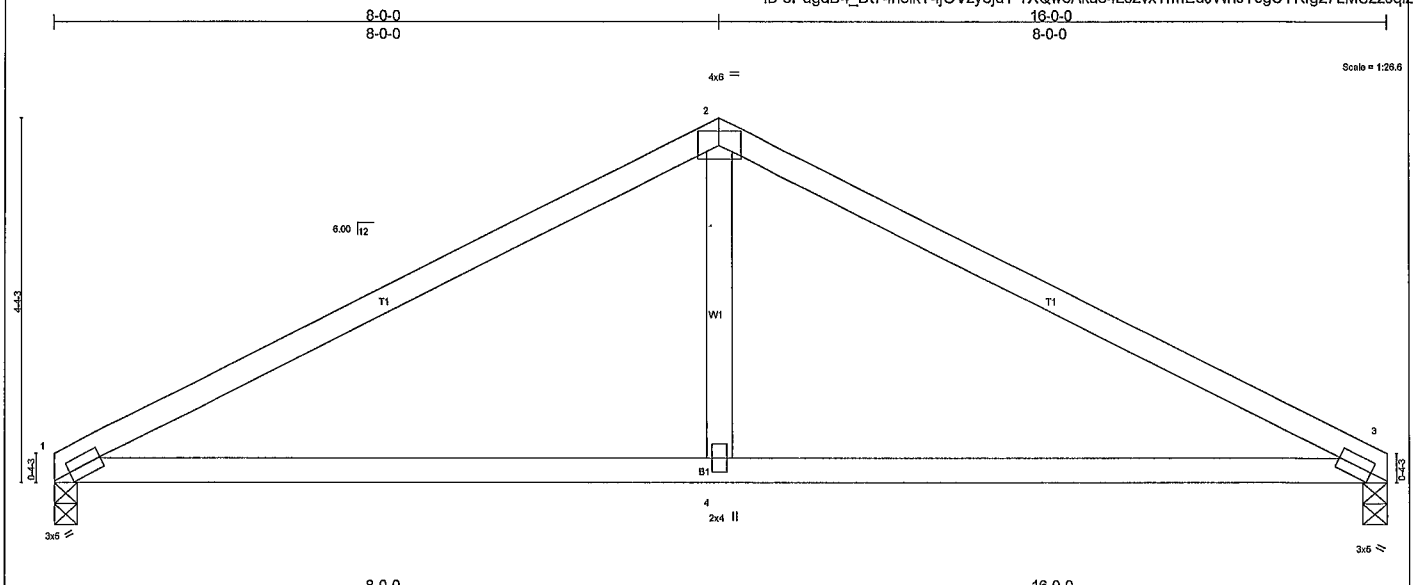


Plate Offsets (X,Y). [1,0-2-10,0-1-8], [3,0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	0.22	4-10	>865	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	0.19	4-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	-0.02	3	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 5-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-15 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=432/0-3-8 (min. 0-1-8) 3=432/0-3-8 (min. 0-1-8)
Max Horz 1=54(LC 9)
Max Uplift 1=-239(LC 9) 3=-239(LC 8)
Max Grav 1=512(LC 2) 3=512(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1024/1742 2-3=-1024/1742
BOT CHORD 1-4=-2325/1440, 3-4=-2325/1440
WEBS 2-4=-474/242

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl. GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=239 3=239.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee PE: Florida P.E. License No. 34869; Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard

January 22,2014

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

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

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

MiTek Industries, Inc.

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

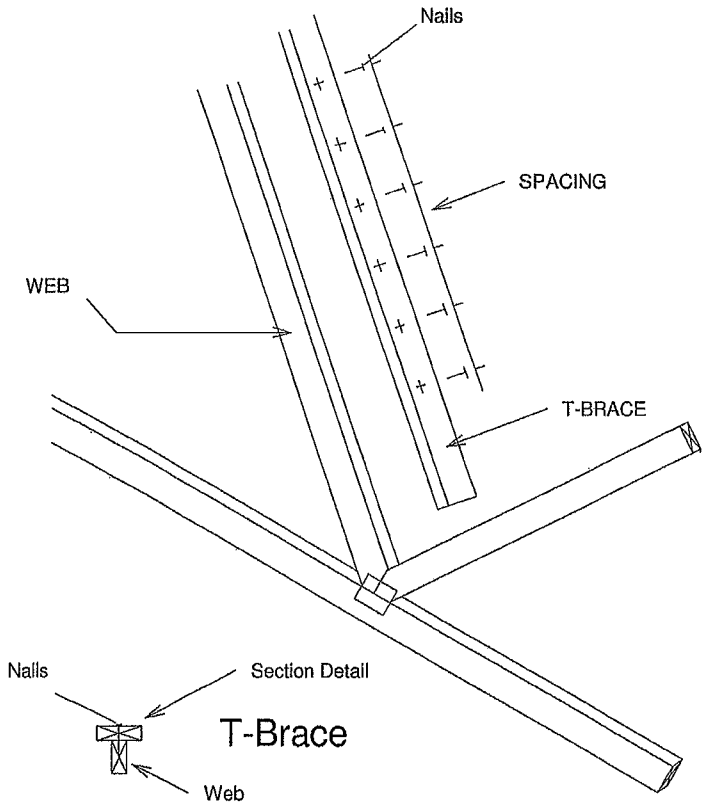
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

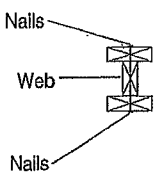
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

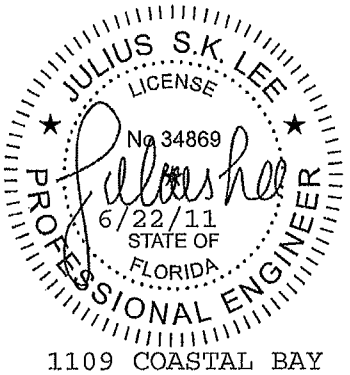
	Brace Size for One-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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

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







1109 COASTAL BAY
BOYNTON BC, FL 33435

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

MiTek Industries, Inc.

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

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

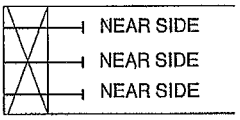
VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)					
	DIAM.	SYP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	135	93.5	85.6	74.2	72.6	63.4
	162	108 8	99 6	86.4	84.5	73.8
3.25" LONG	128	74.2	67.9	58.9	57 6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	148	81 4	74.5	64.6	63.2	52.5

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

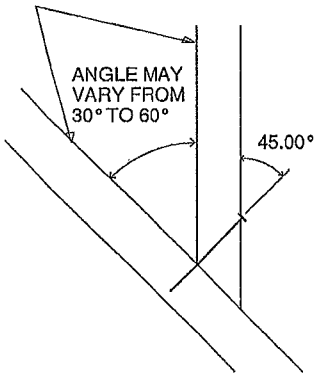
SIDE VIEW

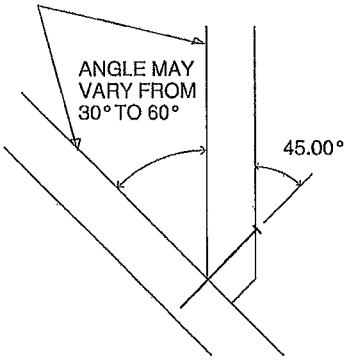
3 NAILS

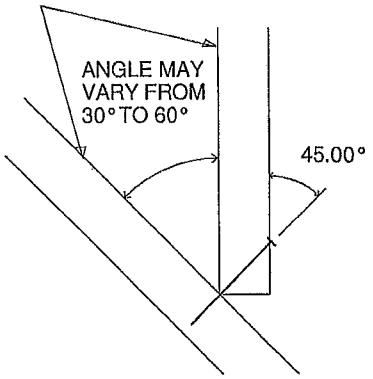


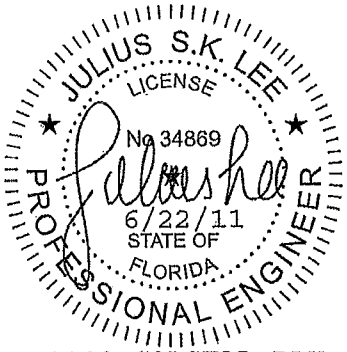
EXAMPLE
(3) - 16d NAILS (.162" diam. x 3 5") WITH SPF SPECIES BOTTOM CHORD

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









1109 COASTAL BAY
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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.

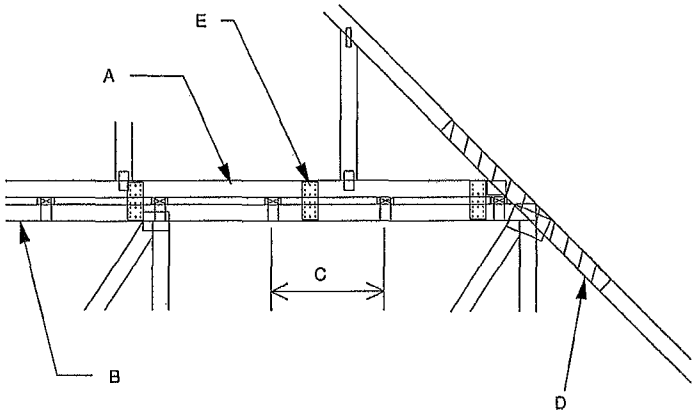
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED

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

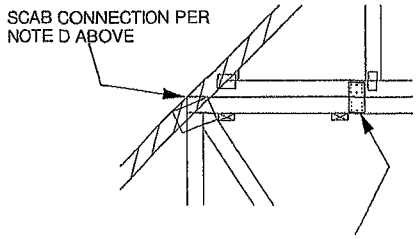
D - 2 X__ X 4'-0' SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT IN BOTH DIRECTIONS AND
1 WIND SPEED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

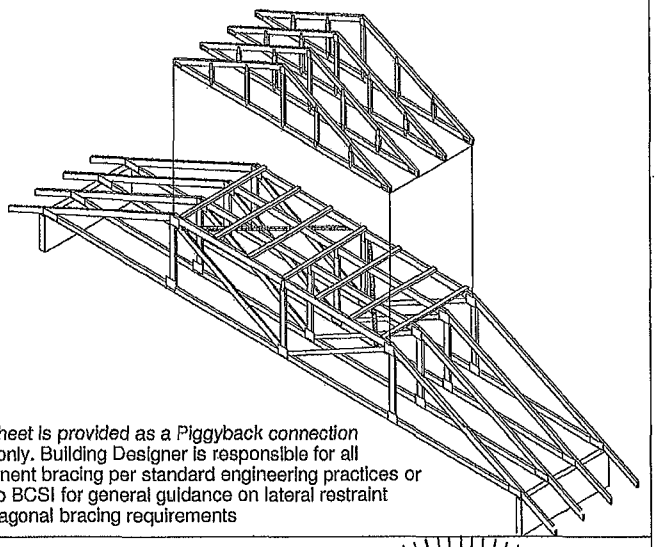


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

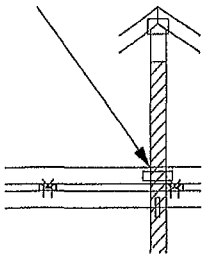


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O C. W/ (4) 0 131 X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE



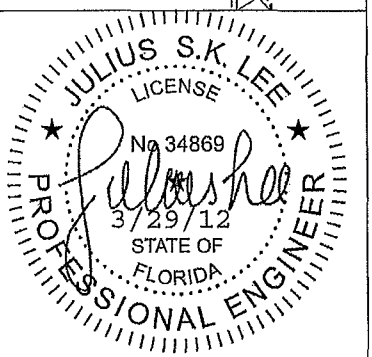
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements

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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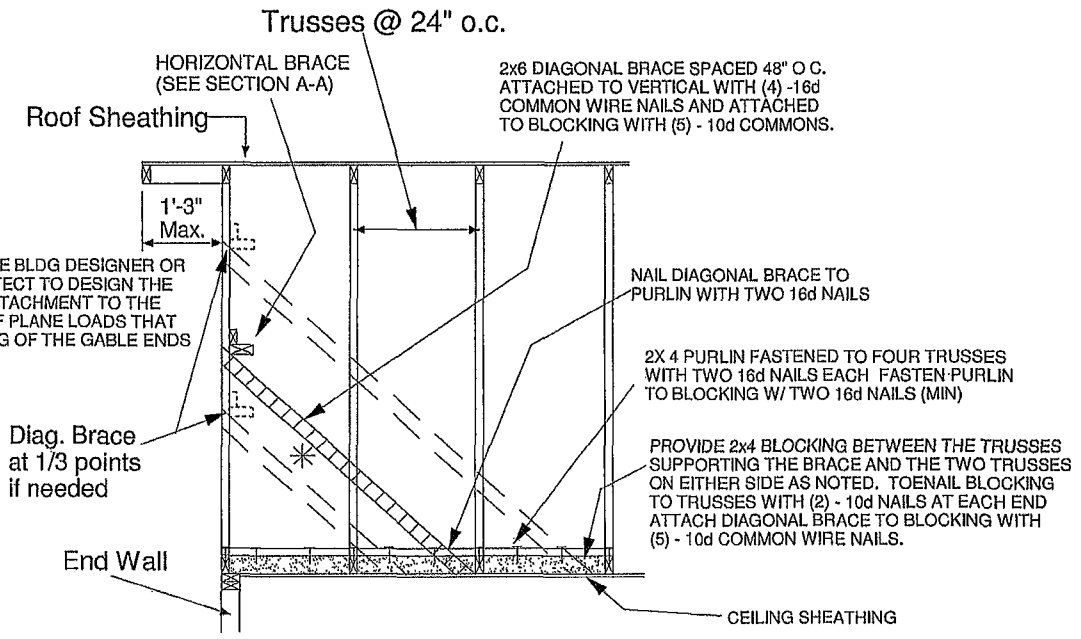
FEBRUARY 14, 2012	Standard Gable End Detail	SHEET 2

MiTek Industries, Inc

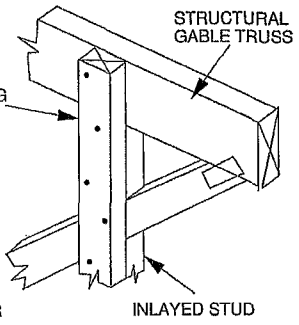
ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



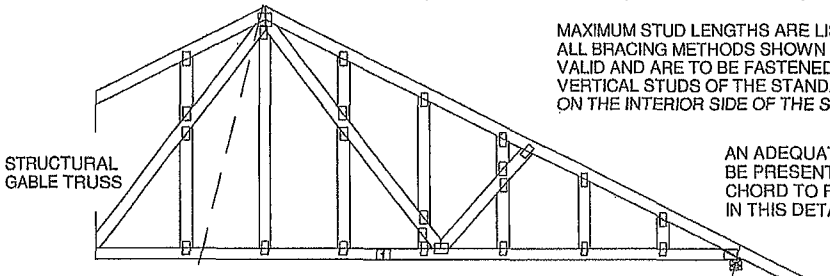
BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

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

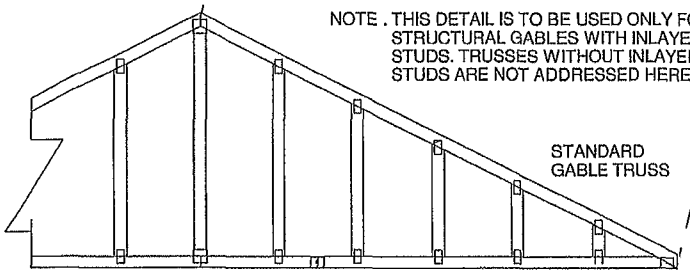
NAILING SCHEDULE
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (131" X 3") NAILS SPACED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

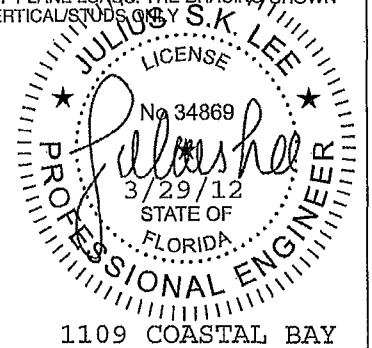


MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1 ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



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





1109 COASTAL BAY
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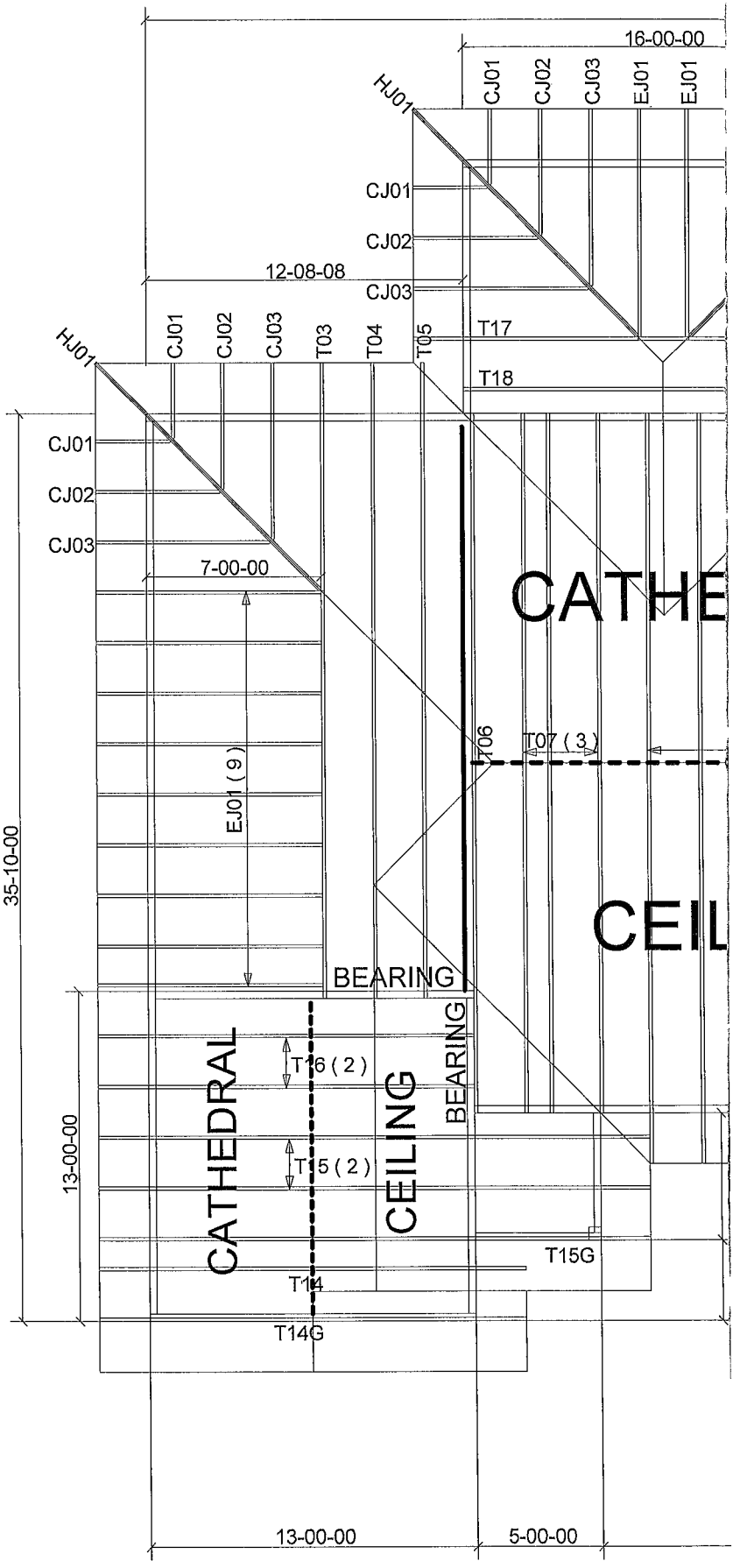
6/12 PITCH
24" O/H



MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, WEYERH