JULIUS LEE PE.

RE 523546 - SIMQUE - HARTSVILLE MODEL

1109 COASTAL BAY BLVD, BOYNTON BEACH, FL 33435

Site Information:

Project Customer Aaron Simque Cosnt Project Name 523546 Model Hartsville
Lot/Block TBD Subdivision TBD
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 Seal License # Unknown at time of Seal
Address Unknown at time of Seal
City Unknown at time of Seal State Unknown at time of Seal

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

FBC 2010/TPI 2007 Design Program: MiTek 20/20 7.3
ASCE 7-10 Wind Speed 130 mph Floor Load: N/A psf
Roof Load. 32 0 psf

This package includes 49 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.

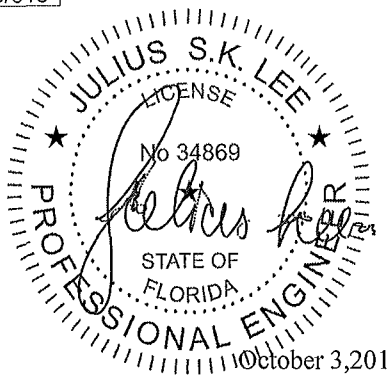
No	Seal#	Truss Name	Date	No	Seal#	Truss Name	Date
1	I7330333	CJ01	10/3/013	18	I7330350	T06	10/3/013
2	I7330334	CJ02	10/3/013	19	I7330351	T07	10/3/013
3	I7330335	CJ03	10/3/013	20	I7330352	T08	10/3/013
4	I7330336	EJ01	10/3/013	21	I7330353	T09	10/3/013
5	I7330337	EJ02	10/3/013	22	I7330354	T10	10/3/013
6	I7330338	EJ03	10/3/013	23	I7330355	T11	10/3/013
7	I7330339	EJ04	10/3/013	24	I7330356	T12	10/3/013
8	I7330340	EJ05	10/3/013	25	I7330357	T13G	10/3/013
9	I7330341	EJ06	10/3/013	26	I7330358	T14	10/3/013
10	I7330342	HJ01	10/3/013	27	I7330359	T14G	10/3/013
11	I7330343	PB01	10/3/013	28	I7330360	T15	10/3/013
12	I7330344	T01	10/3/013	29	I7330361	T16	10/3/013
13	I7330345	T01G	10/3/013	30	I7330362	T17	10/3/013
14	I7330346	T02	10/3/013	31	I7330363	T18	10/3/013
15	I7330347	T03	10/3/013	32	I7330364	T18G	10/3/013
16	I7330348	T04	10/3/013	33	I7330365	T19	10/3/013
17	I7330349	T05	10/3/013	34	I7330366	T20	10/3/013

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



October 3,2013

Julius Lee

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	CJ01	Jack-Open Truss	2	1	I7330333
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Oct 02 17:00:56 2013 Page 1

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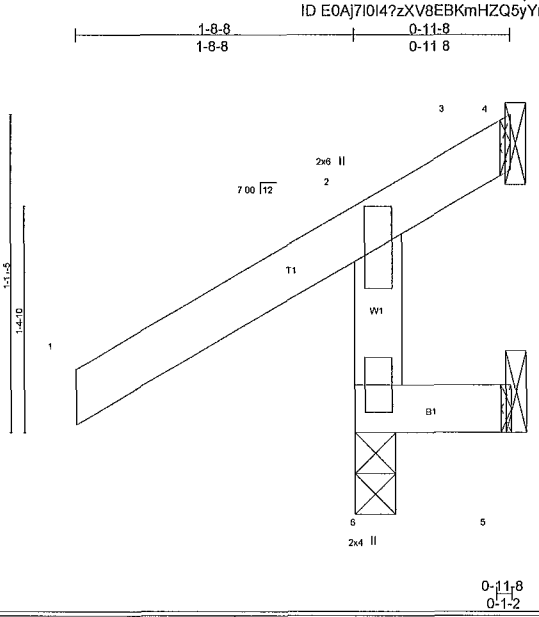


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0 30	Vert(LL)	0 00	6	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 05	Vert(TL)	0 00	6	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0 00	3	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 8 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 0-11-8 oc purlins except end verticals
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

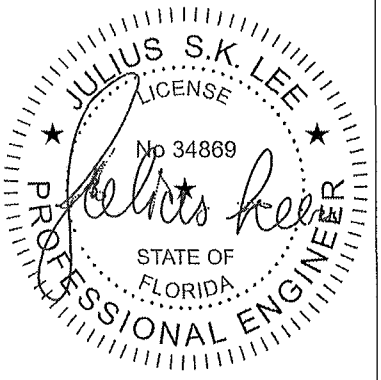
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=205/0-3-0 (min 0-1-8) 5=-12/Mechanical 3=-69/Mechanical
Max Horz 6=69(LC 12)
Max Uplift6=-72(LC 12) 5=-32(LC 23) 3=-86(LC 2)
Max Grav 6=250(LC 2) 5=8(LC 10) 3=16(LC 8)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-6=-275/246

NOTES (8-10)
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 end vertical left exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1 60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
4) All bearings are assumed to be SP No 2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 6, 32 lb uplift at joint 5 and 86 lb uplift at joint 3.
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



October 3,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL	I7330335
523546	CJ03	Jack-Open Truss	2	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 7.350 s Sep 27 2012 MiTek Industries Inc. Wed Oct 02 17 00:57 2013 Page 1

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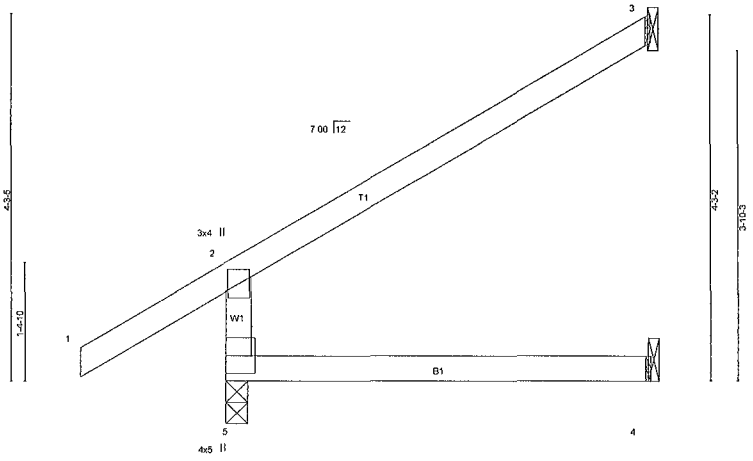
1-8-8 4-11-8
1-8-8 4-11-8

Scale = 1:25 4



4-11-8
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 51	Vert(LL) 0 06 4-5 >962 240	MT20 244/190
TCDL 7.0	Lumber Increase 1 25	BC 0 35	Vert(TL) -0 07 4-5 >837 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0 00	Horz(TL) -0.09 3 n/a n/a	
BCDL 5 0	Code FBC2010/TPI2007	(Matrix-M)		Weight 20 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 4-11-8 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

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

REACTIONS (lb/size) 5=226/0-3-0 (min. 0-1-8) 3=87/Mechanical 4=26/Mechanical
Max Horz 5=161(LC 12)
Max Uplift5=-80(LC 12) 3=-130(LC 12) 4=-15(LC 12)
Max Grav 5=272(LC 2) 3=129(LC 21) 4=66(LC 3)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-5=-304/205

NOTES (8-10)
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; end vertical left exposed C-C for members and forces & MWFRS for reactions shown· Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 5, 130 lb uplift at joint 3 and 15 lb uplift at joint 4
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

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

October 3,2013

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 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	SIMQUE HARTSVILLE MODEL
523546	EJ02	Jack-Partial Truss	3	1	I7330337
					Job Reference (optional)

Builders FirstSource Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries Inc. Wed Oct 02 17:00:59 2013 Page 1

ID:E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-SL2bHQU?_DAxptrF9aWjrTvklfUxGjNZ8qer_yyXONY

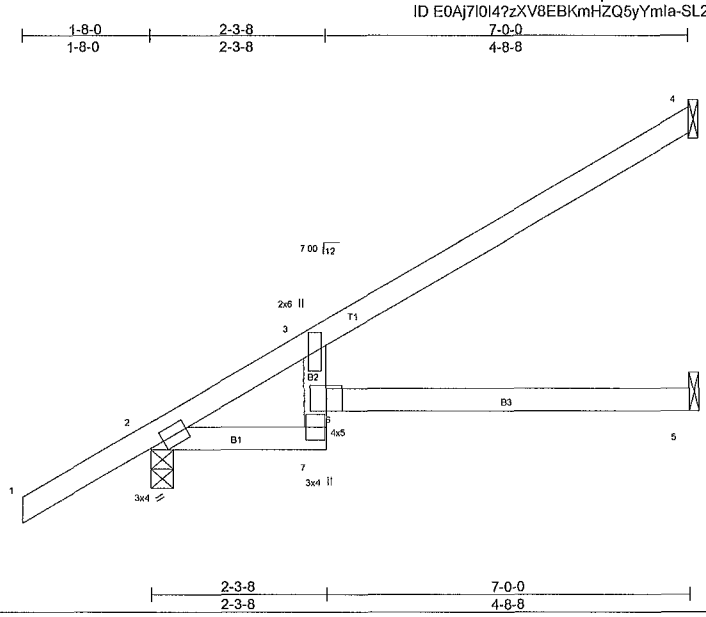


Plate Offsets (X,Y): [2:0-2-3,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	0.11	5-6	>773	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.16	5-6	>529	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 27 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

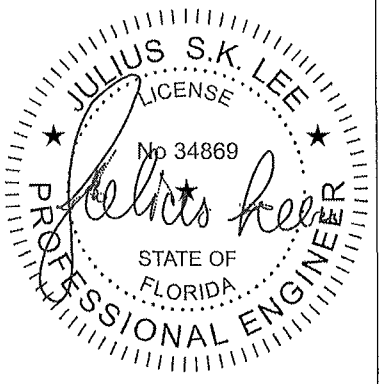
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=103/Mechanical 2=303/0-3-8 (min. 0-1-8) 5=41/Mechanical
Max Horz 2=163(LC 12)
Max Uplift 4=-82(LC 12) 2=-81(LC 12) 5=-3(LC 12)
Max Grav 4=138(LC 21) 2=363(LC 2) 5=75(LC 3)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1264/553
BOT CHORD 2-7=-1050/2050

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 C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1 60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 4 81 lb uplift at joint 2 and 3 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) 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



October 3,2013

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL	I7330339
523546	EJ04	Half Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

7 350 s Sep 27 2012 MiTek Industries Inc. Wed Oct 02 17:01:01 2013 Page 1

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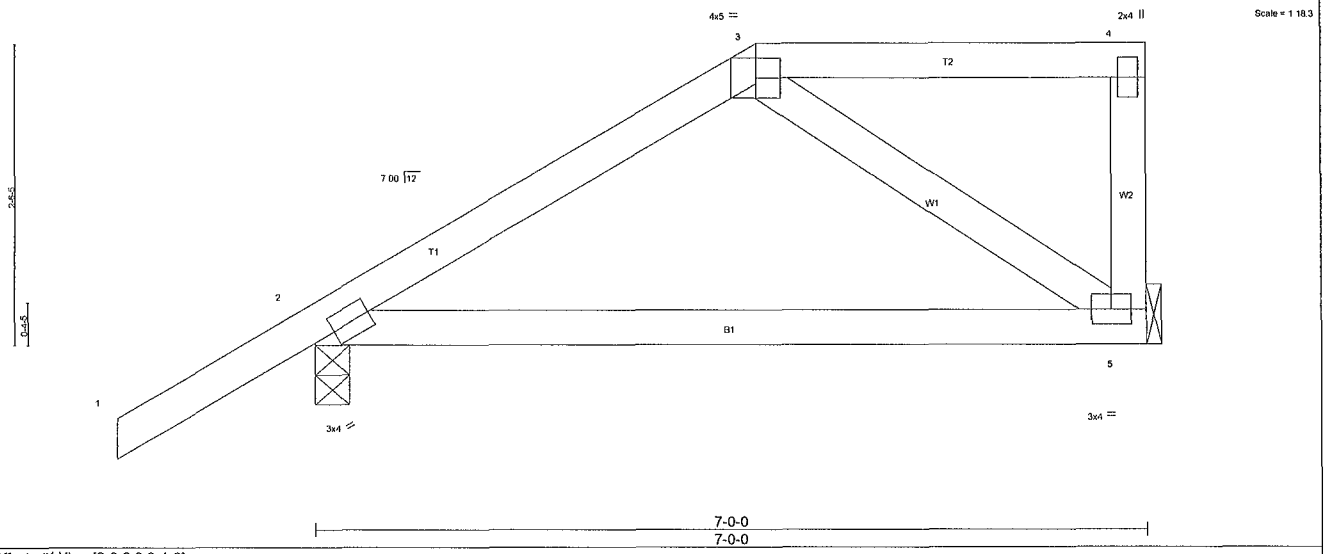


Plate Offsets (X,Y). [2,0-2-3,0-1-8]

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 21	Vert(LL)	-0 05	5-8	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0 10	5-8	>855	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 06	Horz(TL)	0 00	2	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 except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

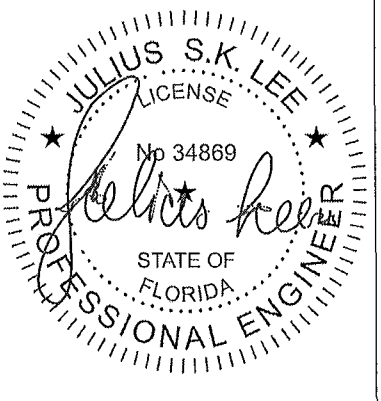
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=276/0-3-8 (min 0-1-8) 5=167/Mechanical
Max Horz 2=100(LC 12)
Max Uplift2=-82(LC 12) 5=-63(LC 9)
Max Grav 2=330(LC 2) 5=199(LC 2)

FORCES (lb) Max. Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-537/22
BOT CHORD 2-5=-147/806

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 82 lb uplift at joint 2 and 63 lb uplift at joint 5.
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



October 3,2013

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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	SIMQUE HARTSVILLE MODEL
523546	EJ06	JACK	20	1	I7330341
					Job Reference (optional)

Builders FirstSource Lake City FL 32055 7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Oct 02 17:01:02 2013 Page 1

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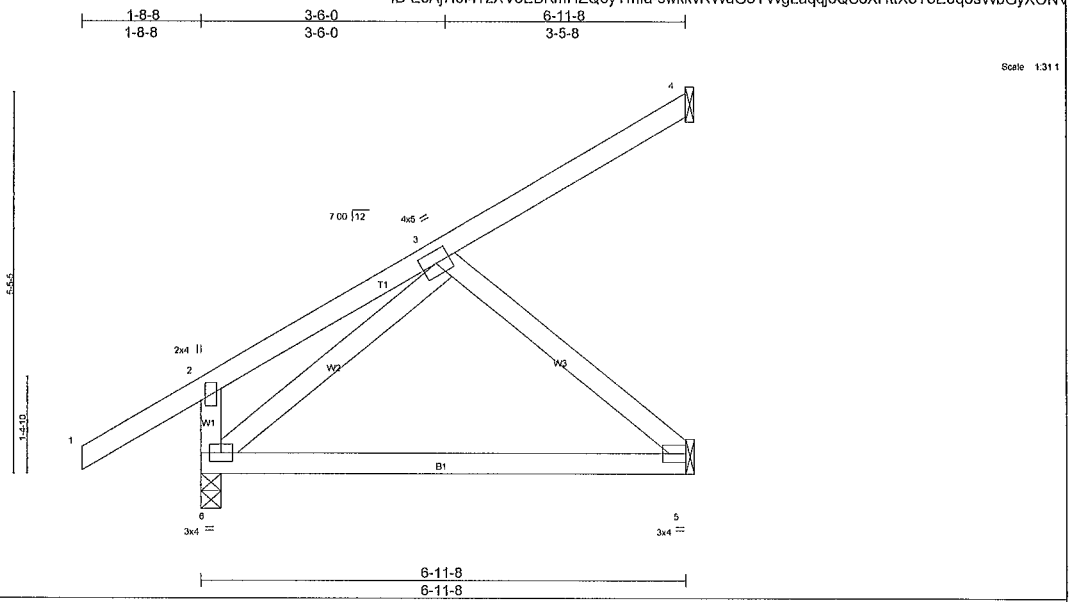


Plate Offsets (X,Y) [5 Edge,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1 25	TC	0.26	Vert(LL)	-0 13	5-6	>633	240	MT20	244/190
TCDL	7 0	Lumber Increase	1 25	BC	0.46	Vert(TL)	-0 23	5-6	>362	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 12	Horz(TL)	-0 00	4	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight 40 lb	FT = 20%

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

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

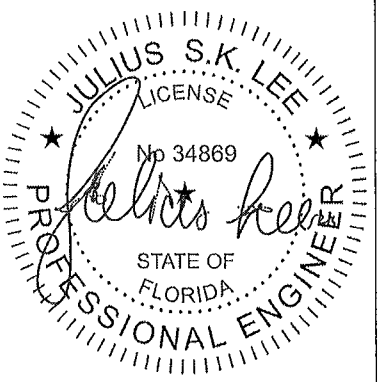
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=65/Mechanical 5=106/Mechanical 6=276/0-3-8 (min 0-1-8)
Max Horz 6=153(LC 12)
Max Uplift4=-53(LC 12) 5=-70(LC 12) 6=-42(LC 12)
Max Grav 4=87(LC 21) 5=144(LC 21) 6=331(LC 2)

FORCES (lb) Max. Comp./Max. Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-6=-310/298
WEBS 3-5=-278/234

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 end vertical left exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=1.60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 5 6.
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



October 3,2013

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL	I7330343
523546	PB01	Piggyback Truss	1	1	Job Reference (optional)	

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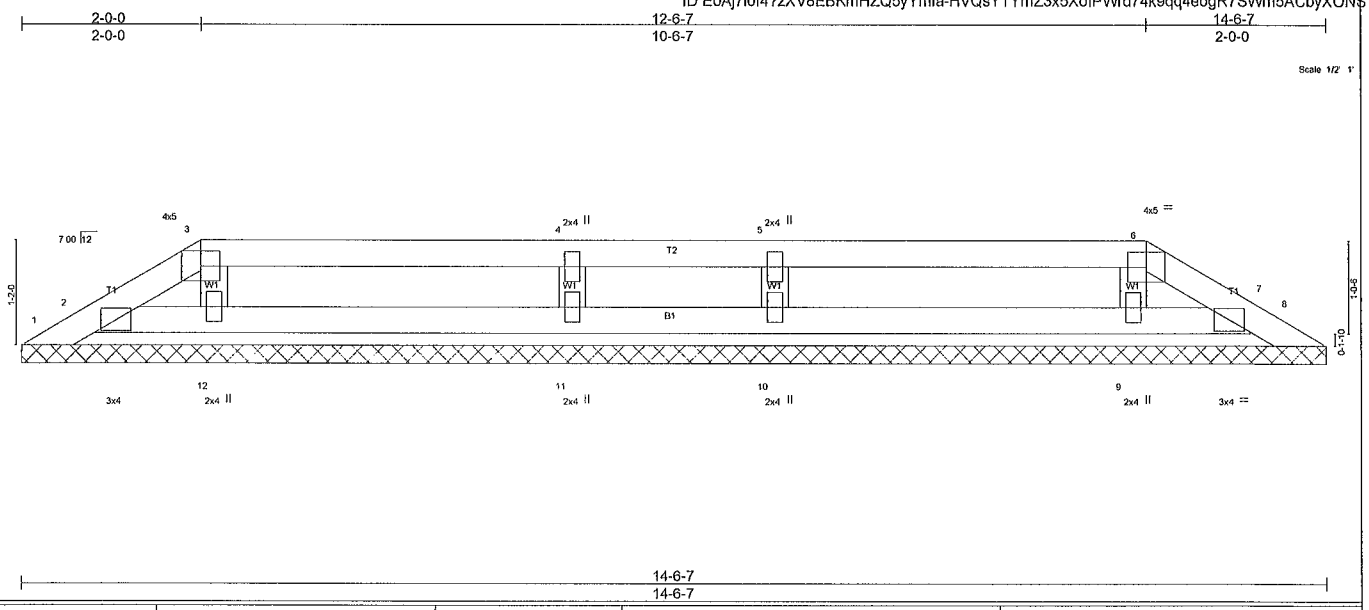
ID:E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-HVQsYTYmZ3x5XolPWrd74k9qq4eogR7SWm5ACbyXONS



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20 0	Plates Increase 1 25	TC 0 15	Vert(LL) n/a n/a 999	MT20 244/190
TCDL 7 0	Lumber Increase 1 25	BC 0.08	Vert(TL) n/a n/a 999	
BCLL 0 0 *	Rep Stress Incr YES	WB 0 05	Horz(TL) -0 00 9 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight 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 6-0-0 oc bracing Except
10-0-0 oc bracing 7-9

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

REACTIONS All bearings 14-6-7
(lb) Max Horz 1=25(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 8 2 12 9 11 10
Max Grav All reactions 250 lb or less at joint(s) 1 8, 2 12 9 11 10

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

NOTES (11 13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7 10 Vult=130mph (3-second gust) Vasd=101mph TCDL=4 2psf; BCDL=3 0psf; h=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) Gable requires continuous bottom chord bearing
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 8, 2 12 9 11 10.
9) Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable or consult qualified building designer
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

October 3,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T01G	Common Truss	1	1	I7330345
					Job Reference (optional)

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ID:E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-9GfNNqbHdIRW0PcAlhh3FaJVKh1GcDM1RO3NLMyXONO

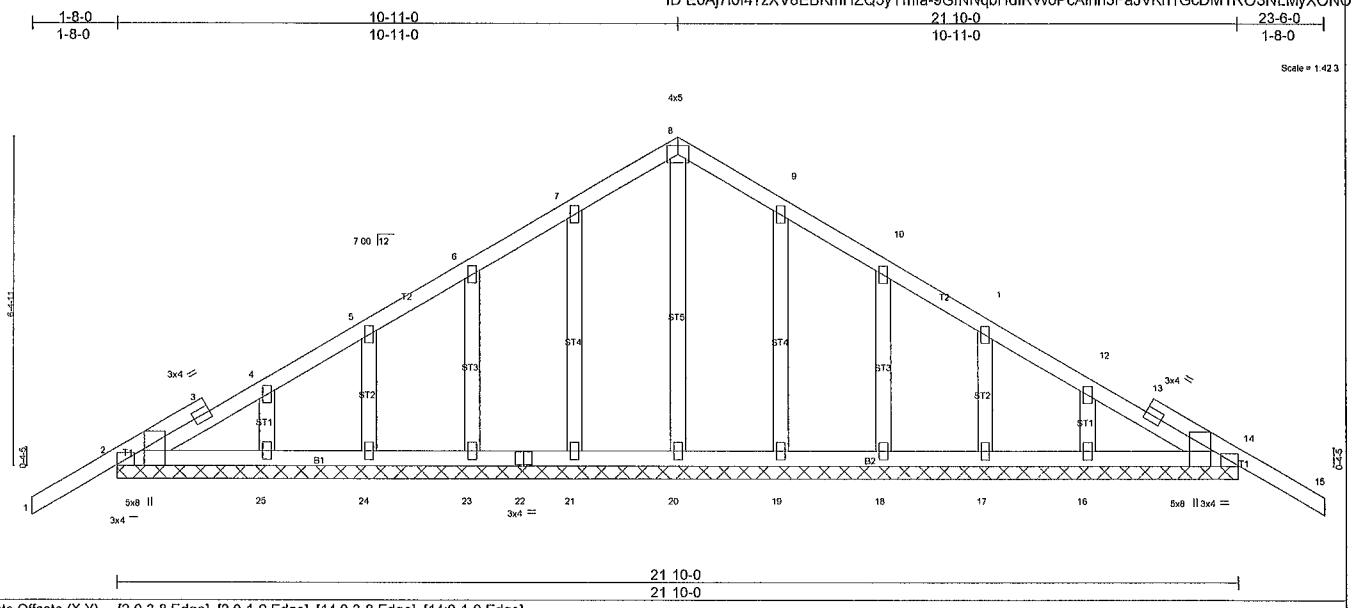


Plate Offsets (X,Y): [2 0-3-8,Edge], [2 0-1-9,Edge], [14.0-3-8,Edge], [14 0-1-9,Edge]

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 18	Vert(LL) -0 01 15 n/r 120	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0 04	Vert(TL) -0 02 15 n/r 120	
BCLL 0 0 *	Rep Stress Incr YES	WB 0 10	Horz(TL) 0 01 14 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 124 lb FT = 20%

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

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

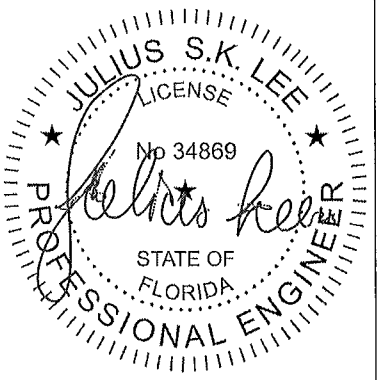
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 21 10-0
(lb) Max Horz 2=218(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2 14 25 16 except 21=-104(LC 12) 23=-101(LC 12) 24=-106(LC 12) 19=-102(LC 13) 18=-103(LC 13) 17=-104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2 14 20 21 23 24 25 19 18 17 16

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

NOTES (12-14)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7 10· Vult=130mph (3-second gust) Vasd=101mph TCDL=4 2psf· BCDL=3 0psf· h=18ft; Cat. II Exp C, Encl GCpi=0 18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone·C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face) see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1
4) All plates are 2x4 MT20 unless otherwise indicated
5) Gable requires continuous bottom chord bearing
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
9) All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 14 25 16 except (jt=lb) 21=104 23=101 24=106 19=102 18=103 17=104
11) Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
13) Note· Visually graded lumber designation SPp represents new lumber design values as per SPIB.
14) Truss Design Engineer· Julius Lee PE Florida P E. License No 34869· Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard



October 3,2013

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	SIMQUE HARTSVILLE MODEL	I7330347
523546	T03	Half Hip Truss	1	1	Job Reference (optional)	

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ID E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-5fn8oWdX9vhEFjmZs6jXK?OizVUX42MKuhYUPFyXONM

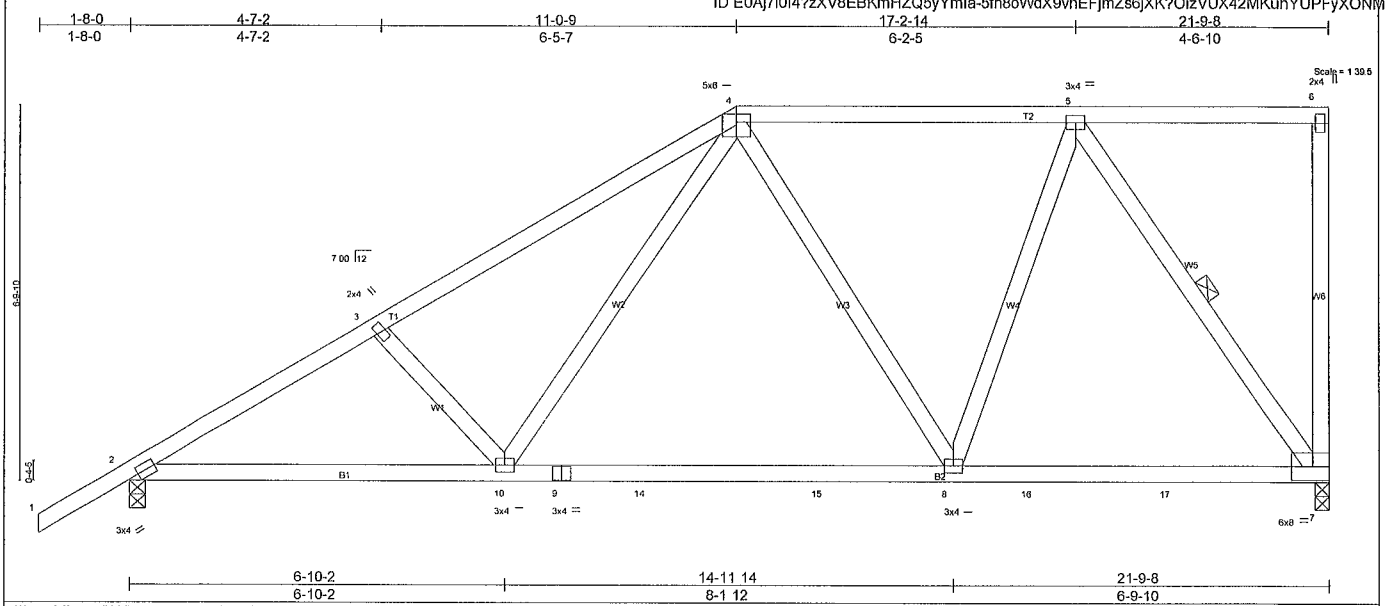

Plate Offsets (X,Y): [2:0-2-3,0-1-8], [4.0-3-0,0-1 12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0 75	Vert(LL)	0 31	8-10	>827	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 95	Vert(TL)	-0.54	8-10	>484	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.45	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 1 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x4 SP No 1
WEBS 2x4 SP No 3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-3-4 oc bracing
WEBS 1 Row at midpt 5-7

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

REACTIONS (lb/size) 7=902/0-3-0 (min 0-1-8) 2=924/0-3-8 (min. 0-1-9)
Max Horz 2=245(LC 12)
Max Uplift 7=-281(LC 9) 2=-250(LC 12)
Max Grav 7=937(LC 2) 2=1027(LC 2)

FORCES (lb) Max. Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2175/822 3-4=-2004/796 4-5=-1037/448
BOT CHORD 2-10=-944/1996 9-10=-549/1183 9-14=-549/1183, 14-15=-549/1183 8-15=-549/1183
8-16=-353/761 16-17=-353/761 7 17=-353/761
WEBS 3-10=-427/280 4-10=-386/979 4-8= 281/196 5-8=-289/845 5-7=-1360/633

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=281 2=250
8) Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.
9) In the LOAD CASE(S) section loads applied to the face of the truss are noted as front (F) or back (B)
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
11) Note Visually graded lumber designation SPp represents new lumber design values as per SPIB.
12) Truss Design Engineer Julius Lee PE Florida P E License No 34869 Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard
1) Regular Lumber Increase=1 25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44 4-6=-44 10-11=-10 10-14=-61(F=-51) 14-15=-91(F=-51) 8-15=-61(F=-51) 8-16=-10 16-17=-40 7 17=-10

October 3,2013

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T05	Half Hip Truss	1	1	I7330349
					Job Reference (optional)

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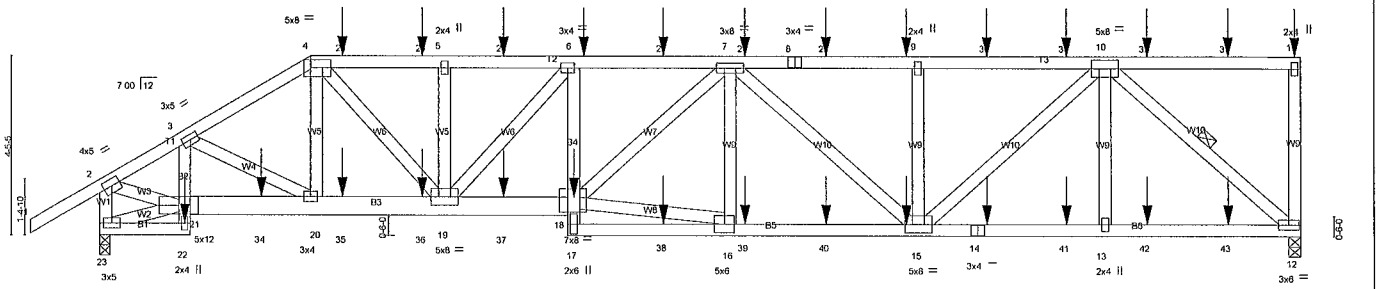
ID E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-WESGQYfQRq3p6BU8XEHEye0GWiYCHKGnafm80ayXONJ

1-8-8	2-3-0	5-2-15	8-6-15	11 7-8	15-7 14	20-3-13	24-11 13	29-9-8
1 8-8	2-3-0	2-11 15	3-4-0	3-0-9	4-0-6	4-7 15	4-8-0	4-9-12

Scale 1:53.9



2-3-0	5-2-15	8-6-15	11 7-8	15-7 14	20-3-13	24-11 13	29-9-8
2-3-0	2-11 15	3-4-0	3-0-9	4-0-6	4-7 15	4-8-0	4-9-12

Plate Offsets (X,Y). [4 0-6-0,0-2-4], [18 0-6-0,0-4-8]

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 54	Vert(LL)	0.20	17	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 82	Vert(TL)	-0 37	15-16	>963	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 76	Horz(TL)	0 14	12	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight 205 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No 2 *Except*
B2 2x4 SP No.3, B3. 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
W8 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11 1 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 5-2-2 oc bracing
WEBS 1 Row at midpt 10-12

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

REACTIONS (lb/size) 12=1526/0-3-8 (min 0-2-2) 23=1636/0-3-0 (min 0-2-5)
Max Horz 23=121(LC 8)
Max Uplift 12=-780(LC 5) 23=-700(LC 8)
Max Grav 12=1812(LC 2) 23=1946(LC 2)

FORCES (lb) Max Comp./Max Ten. All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2276/910 3-4=-2557/1046 4-24=-3036/1282 24-25=-3036/1282 5-25=-3036/1282 5-26=-3036/1282 6-26=-3036/1282 6-27=-3545/1490 7-27=-3545/1490 7 28=-2754/1144 8-28=-2754/1144 8-29=-2754/1144 9-29=-2754/1144 9-30=-2754/1144 30-31=-2754/1144 10-31=-2754/1144 11 12=-254/167 2-23=-1886/718
BOT CHORD 3-21=-341/127 21-34=-854/1974 20-34=-854/1974 20-35=-921/2182 35-36=-921/2182 19-36=-921/2182 19-37=-1501/3569 18-37=-1500/3571 6-18=-65/317 17-38=-199/493, 16-38=-199/493 16-39=-1320/3168 39-40=-1320/3168 15-40=-1320/3168 14-15=-715/1722 14-41=-715/1722 13-41=-715/1722 13-42=-715/1722 42-43=-715/1722 12-43=-715/1722
WEBS 4-19=-558/1250 5-19=-302/189 6-19=-801/349 16-18=-1138/2716 7 18=-228/505 7 16=-396/257 7 15=-554/236, 9-15=-445/276, 10-15=-574/1382 10-13=0/274 10-12=-2278/946 2-21=-756/1990

NOTES (11 13)
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); end vertical left exposed Lumber DOL=1 60 plate grip DOL=1 60
2) Provide adequate drainage to prevent water ponding
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=780 23=700
8) 'Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

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

October 3,2013

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

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1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T06	Half Hip Truss	1	1	17330350
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

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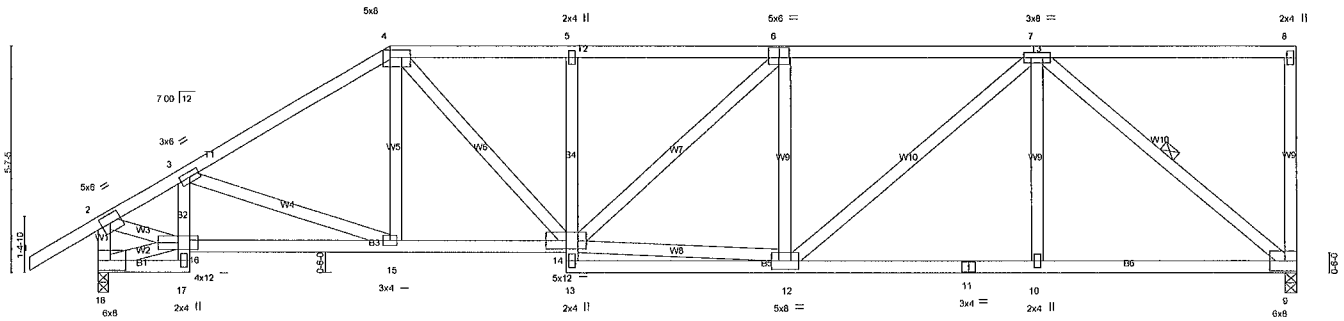
ID E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-Sca1rEhgzRJXMUeXffJi136ejWLvIJj32zFF5TyXONH

1-8-8	2-3-0	7-2-15	11 7-8	17-0-9	23-4-3	29-9-8
1-8-8	2-3-0	4-11 15	4-4-9	5-5-1	6-3-10	6-5-6

Scale = 1 53 9



2-3-0	7-2-15	11 7-8	17-0-0	23-4-3	29-9-8
2-3-0	4-11 15	4-4-9	5-4-8	6-4-3	6-5-6

Plate Offsets (X,Y) [2.0-2-9,0-2-8], [4 0-6-0,0-2-4], [6:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0 10	5	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 36	Vert(TL)	-0 14	14-15	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0 06	9	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 197 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2 B4 2x4 SP No 3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-8 oc bracing
WEBS 1 Row at midpt 7-9

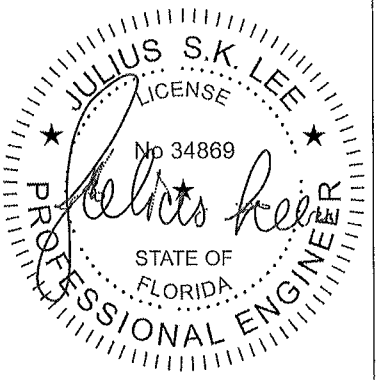
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=794/0-3-8 (min 0-1-8) 18=881/0-3-0 (min 0-1-8)
Max Horz 18=160(LC 12)
Max Uplift9=-290(LC 9) 18=-228(LC 9)
Max Grav 9=941(LC 2) 18=1047(LC 2)

FORCES (lb) Max. Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1264/640 3-4= 1428/720 4-5=-1513/840 5-6=-1500/833, 6-7=-1385/760 2-18=-1168/624
BOT CHORD 3-16=-355/163 15-16=-768/1271 14-15=-676/1219 5-14=-259/197 11 12=-534/973, 10-11=-534/973, 9-10=-534/973
WEBS 4 14=-243/469 12-14=-648/1160 6-12=-410/295 7 12=-298/544 7-9=-1255/690 2 16=-524/1168

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) and C-C Exterior(2) zone end vertical left exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=290 18=228.
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



October 3,2013

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Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T08	Half Hip Truss	1	1	I7330352
					Job Reference (optional)

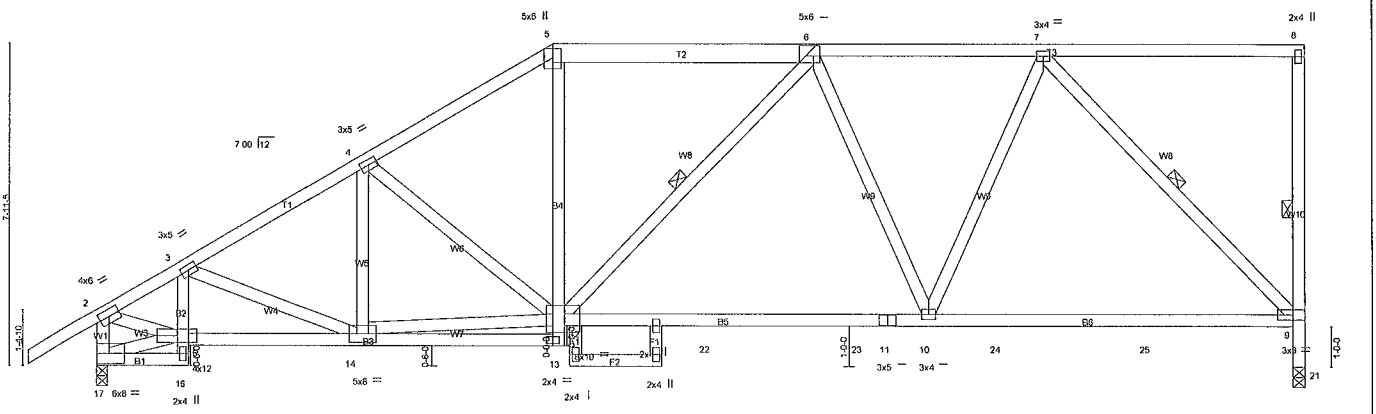
Builders FirstSource Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Oct 02 17:01 19 2013 Page 1

ID E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-sBG9UFJYGMi5DyN5KntPfhk9JGcyeUWkxUvhnyXONE

1-8-8 | 2-3-0 | 6-6-12 | 11 2-15 | 17 8-0 | 23-4-7 | 29-9-8

1-8-8 | 2-3-0 | 4-3-12 | 4-8-2 | 6-5-1 | 5-8-7 | 6-5-1

Scale 1:53.6



2-3-0 | 6-6-12 | 11-2-15 | 11-8-0 | 13-11-8 | 20-6-3 | 29-9-8

2-3-0 | 4-3-12 | 4-8-3 | 0-5-1 | 2-3-8 | 6-6-11 | 9-3-5

Plate Offsets (X,Y) [2.0-2-14,0-2-0], [5:0-2-9,0-2-8], [6 0-1 12,0-3-0], [9.0-4-8,0-1-8], [12.0-4-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0 17	9-10	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 74	Vert(TL)	-0 32	10-12	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 57	Horz(TL)	0 10	21	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 212 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2 B4 F2. 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing
WEBS 1 Row at midpt 8-21 6-12 7-9

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

REACTIONS (lb/size) 17=949/0-3-0 (min 0-1-8) 21=946/0-3-8 (min 0-1-8)
Max Horz 17=239(LC 12)
Max Uplift 17=-218(LC 12) 21=-290(LC 9)
Max Grav 17=1047(LC 2), 21=946(LC 1)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3= 1398/624, 3-4=-1634/688 4-5=-1515/688, 5-6=-1321/654 6-7=-1173/531 9-21=-1174/559 2 17=-1293/622
BOT CHORD 3-15=-363/113 14-15=-838/1414 5-12=-128/393, 12-22=-643/1315 22 23=-643/1315 11-23=-643/1315 10-11=-643/1315 10-24=-447/920 24-25=-447/920 9-25=-447/920
WEBS 12-14=-664/1404 4-12=-266/172 6-10=-354/281 7 10=-211/643, 7-9=-1313/646 2-15=-494/1259

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) and C-C Exterior(2) zone end vertical left exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=1 60
2) Provide adequate drainage to prevent water ponding
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Bearing at joint(s) 21 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 at joint(s) 17
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=218 21=290
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

October 3,2013

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Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T09	HALF HIP TRUSS	1	2	I7330353 Job Reference (optional)

Builders FirstSource, Lake City FL 32055 7 350 s Sep 27 2012 MiTek Industries Inc. Wed Oct 02 17.01:21 2013 Page 2

ID E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-paOvuxlpo_ypSFXUSCvtk6pYxX19QSApBFz0mgyXONC

NOTES (14-16)

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 843 lb down and 250 lb up at 14-0-4 843 lb down and 249 lb up at 16-0-4 843 lb down and 182 lb up at 18-0-4 843 lb down and 162 lb up at 20-0-4 843 lb down and 162 lb up at 22-0-4 768 lb down and 156 lb up at 24-0-4, and 768 lb down and 196 lb up at 26-0-4 and 771 lb down and 231 lb up at 28-0-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others.

14) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

15) Note: Visually graded lumber designation SPp represents new lumber design values as per SPIB

16) Truss Design Engineer: Julius Lee PE Florida P E. License No 34869: Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert. 1 2=-44 2-6=-44 6-11=-44 19-21=-10 12-18=-10

Concentrated Loads (lb)

Vert: 23=-710(B) 24=-710(B) 25=-710(B) 26=-710(B) 27=-710(B) 28=-646(B) 29=-646(B) 30=-649(B)

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

NOTES (13-15)

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 60 lb up at 6-11-8 26 lb down and 60 lb up at 9-0-4 26 lb down and 60 lb up at 11-0-4 26 lb down and 60 lb up at 13-0-4, 26 lb down and 60 lb up at 15-0-4 26 lb down and 60 lb up at 17-0-4 26 lb down and 60 lb up at 19-0-4 26 lb down and 60 lb up at 21-0-4, 26 lb down and 60 lb up at 23-0-4 26 lb down and 60 lb up at 25-0-4 26 lb down and 60 lb up at 27-0-4 26 lb down and 60 lb up at 29-0-4 26 lb down and 60 lb up at 31-0-4 26 lb down and 60 lb up at 33-0-4 26 lb down and 60 lb up at 35-0-4 26 lb down and 60 lb up at 37-0-4 26 lb down and 60 lb up at 39-0-4 26 lb down and 60 lb up at 41-0-4 and 26 lb down and 60 lb up at 43-0-4 and 80 lb down and 53 lb up at 44-5-12 on top chord and 320 lb down and 355 lb up at 6-11-8, 112 lb down and 80 lb up at 9-0-4 112 lb down and 80 lb up at 11-0-4, 112 lb down and 80 lb up at 13-0-4 112 lb down and 80 lb up at 15-0-4 112 lb down and 80 lb up at 17-0-4 112 lb down and 80 lb up at 19-0-4 112 lb down and 80 lb up at 21-0-4 112 lb down and 80 lb up at 23-0-4, 112 lb down and 80 lb up at 25-0-4 112 lb down and 80 lb up at 27-0-4 112 lb down and 80 lb up at 29-0-4, 112 lb down and 80 lb up at 31-0-4 112 lb down and 80 lb up at 33-0-4 112 lb down and 80 lb up at 35-0-4 112 lb down and 80 lb up at 37-0-4 112 lb down and 80 lb up at 39-0-4 and 112 lb down and 80 lb up at 41-0-4 and 112 lb down and 80 lb up at 43-0-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others.

13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

14) Note: Visually graded lumber designation SPp represents new lumber design values as per SPIB.

15) Truss Design Engineer: Julius Lee PE Florida P E License No 34869: Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25 Plate Increase=1 25

Uniform Loads (plf)

Vert: 1-2=-44 2-4=-44 4-11=-44 17 19=-10 17-35=-40 35-38=-10 38-40=-40 14-40=-10 14-43=-40 43-46=-10 46-48=-40 12-48=-10

Concentrated Loads (lb)

Vert: 4= 21(B) 6=-21(B) 11=-65(B) 17=-96(B) 18=-274(B) 5=-21(B) 8=-21(B) 10=-21(B) 9=-21(B) 14=-96(B) 20=-21(B) 21= 21(B) 22=-21(B) 23=-21(B) 24=-21(B) 25=-21(B) 26=-21(B) 27=-21(B) 28=-21(B) 29=-21(B) 30=-21(B) 31=-21(B) 32=-21(B) 33=-96(B) 34=-96(B) 35=-96(B) 36=-96(B) 37=-96(B) 39=-96(B) 40=-96(B) 41=-96(B) 42=-96(B) 43=-96(B) 44=-96(B) 45=-96(B) 47=-96(B) 49=-96(B) 50=-96(B) 51=-96(B)

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL	I7330356
523546	T12	HIP TRUSS	1	1	Job Reference (optional)	

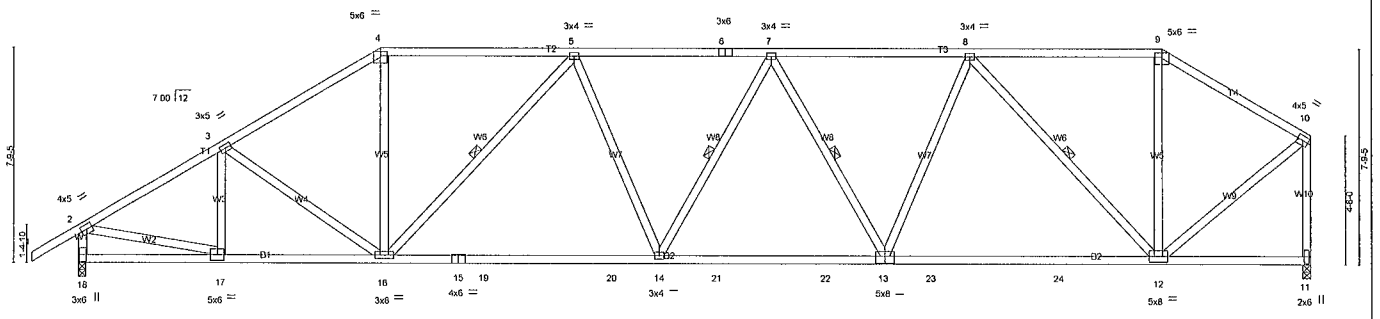
Builders FirstSource Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries Inc. Wed Oct 02 17:01 32 2013 Page 1

ID E0Aj7I0l47zXV8EBKmHZQ5yYmIa _hY4CitiCMKFGytbb0cSgRmGnyfJVTfQjT75fXyXON1

1-8-8	5-2-0	10-11-8	17 11-8	25-1-8	32-3-8	39-3-8	44-7-8
1-8-8	5-2-0	5-9-7	7-0-0	7-2-0	7-2-0	7-0-0	5-4-0

Scale 1 78 5



5-2-0	10-11-8	21-0-10	29-2-6	39-3-8	44-7-8
5-2-0	5-9-7	10-1-2	8-1 11	10-1-2	5-4-0

Plate Offsets (X,Y). [4.0-3-0,0-1 12], [9 0-3-0,0-1 12], [13.0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0.87	Vert(LL)	-0.38	14-16	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 96	Vert(TL)	-0.67	14-16	>799	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 76	Horz(TL)	0 13	11	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 279 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins except end verticals
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing
WEBS 1 Row at midpt 5-16, 7 14 7 13 8-12

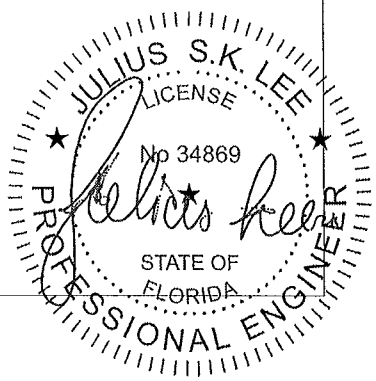
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 18=1453/0-3-0 (min 0-2-4) 11=1418/0-3-8 (min 0-2 2)
Max Horz 18=197(LC 9)
Max Uplift 18=-325(LC 9) 11=-325(LC 8)
Max Grav 18=1521(LC 2) 11=1418(LC 1)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2339/1000 3-4=-2410/1078 4-5=-2080/999 5-6= 2721/1264 6-7=-2721/1264
7-8=-2471/1150 8-9=-1216/604 9-10=-1405/625 2 18=-1868/865 10-11=-1782/776
BOT CHORD 16-17=-942/2031 15-16= 1130/2552 15-19= 1130/2552 19-20=-1130/2552 14-20=-1130/2552
14-21=-1146/2614 21 22=-1146/2614 13-22= 1146/2614 13-23=-929/2110 23-24=-929/2110
12-24=-929/2110
WEBS 3-17=-417/202 4-16=-308/814 5-16=-828/404 5-14=-35/273 7 13=-482/284 8-13=-212/715
8-12=-1454/688 9-12=-77/338 2-17=-754/1880 10-12=-586/1439

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 end vertical left exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5 0psf
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=325, 11=325.
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



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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T13G	GABLE	1	1	I7330357
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-386(B)

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T14G	GABLE	1	1	I7330359
					Job Reference (optional)

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ID E0Aj7I0I4?zXV8EBKmHZQ5yYmIa-tToa23wDGbrhIZANqsgOrHx41aCrRKG0e45JnlyXOMz

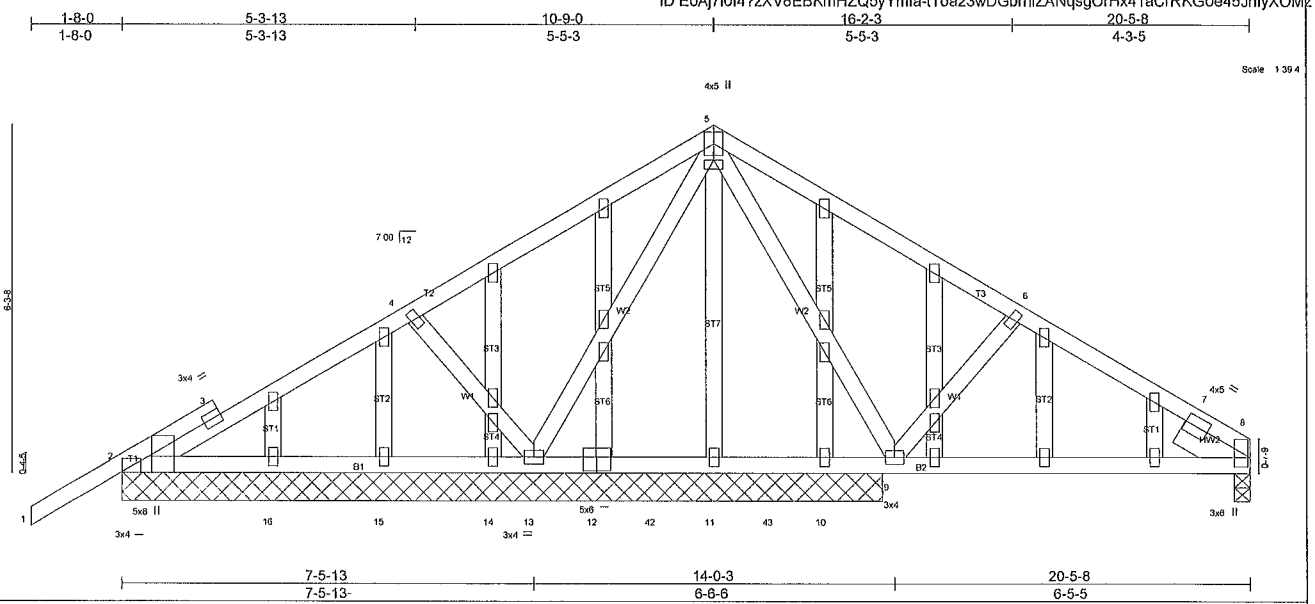


Plate Offsets (X,Y). [2.0-3-8,Edge], [2 0-1-9,Edge], [5 0-2-0,0-0-0], [8.0-2-0,0-0-8], [12.0-3-0,0-3-0]

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 34	Vert(LL) 0 10 9-40 >933 240	MT20 244/190
TCDL 7 0	Lumber Increase 1 25	BC 0 22	Vert(TL) 0.08 9-40 >999 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0 53	Horz(TL) 0 01 8 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight 145 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-3-15

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

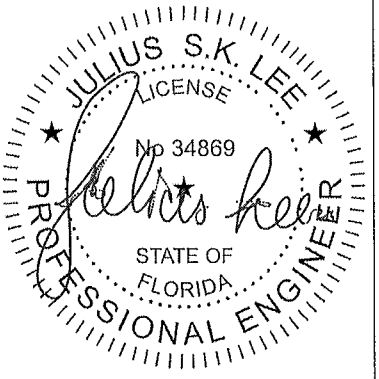
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 13-9-8 except (jt=length) 8=0-3-8
(lb) Max Horz 2=204(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 11 14 16 10 except 2=-106(LC 12)
8=-186(LC 8) 13=-364(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2 11 14 15, 16 10 2 except 8=354(LC 28) 13=665(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 5-6=-390/520 6-7=-516/540 7-8=-462/516
BOT CHORD 8-9=-417/401
WEBS 4-13=-406/280 5-13=-592/416 5-9=-492/264 6-9=-379/272

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 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
3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face) see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1
4) All plates are 2x4 MT20 unless otherwise indicated
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
7) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5 0psf
8) All bearings are assumed to be SP No 2 crushing capacity of 565 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 14 16 10 except (jt=lb) 2=106, 8=186 13=364 2=106
10) 'Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
12) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB
13) Truss Design Engineer· Julius Lee PE Florida P E. License No 34869· Address: 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard



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Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T16	Jack-Partial Truss	3	1	I7330361
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

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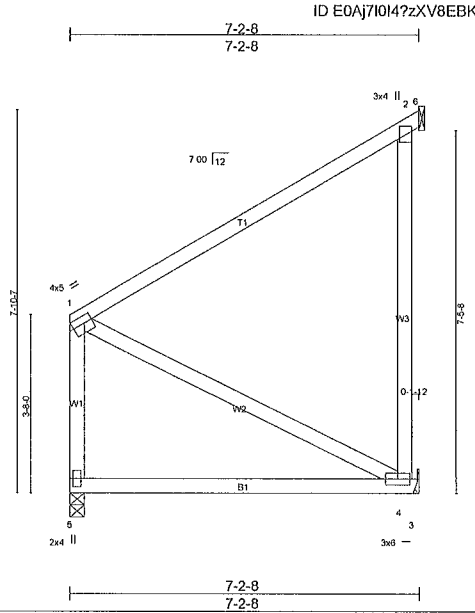


Plate Offsets (X,Y). [1 Edge,0-1 12], [2 0-3-4,0-0-8]

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 85	Vert(LL)	0 10	4 5	>832	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 37	Vert(TL)	-0 17	4-5	>485	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	0 01	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 50 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-6 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

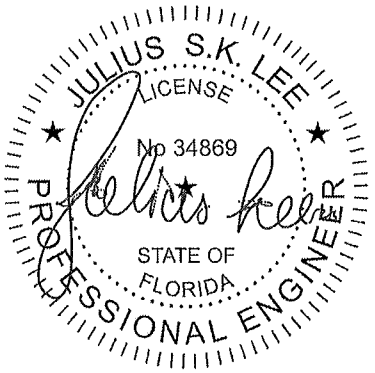
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=186/0-3-8 (min 0-1-8) 4=53/Mechanical 2=137/Mechanical
Max Horz 5=139(LC 12)
Max Uplift 4=-54(LC 12) 2=-128(LC 12)
Max Grav 5=221(LC 2) 4=116(LC 3) 2=188(LC 21)

FORCES (lb) Max Comp./Max. Ten. All forces 250 (lb) or less except when shown
BOT CHORD 4-5=-255/228
WEBS 1-4=-255/286

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) This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration
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) 4 except (jt=lb) 2=128
8) 'Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0 500in
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



October 3,2013

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T18	Scissor Truss	1	1	I7330363
					Job Reference (optional)

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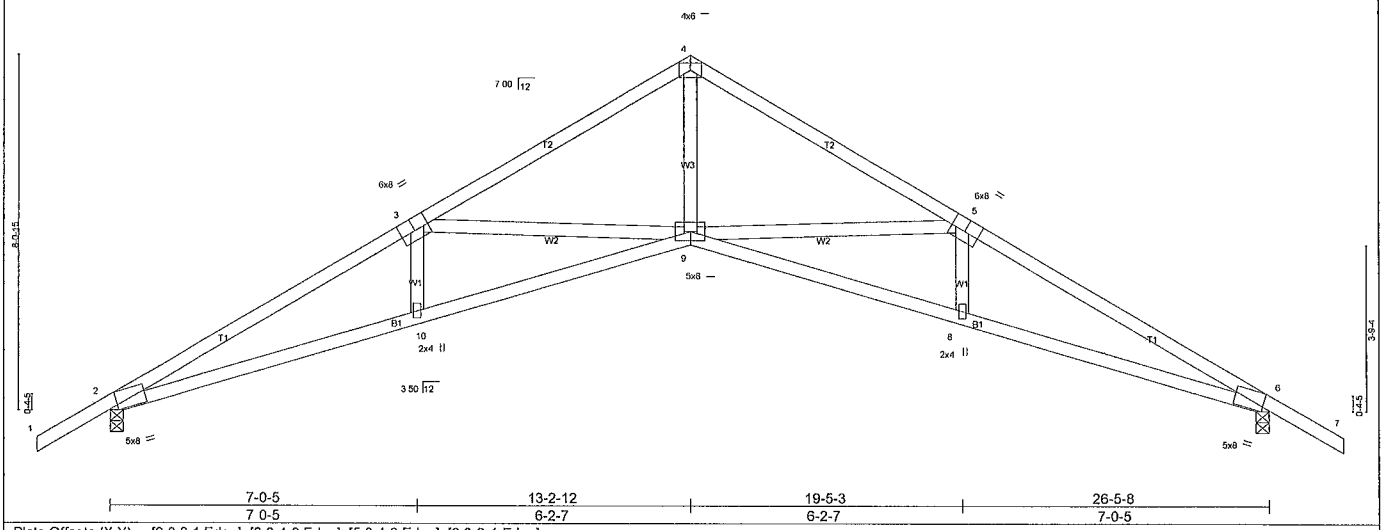

Plate Offsets (X,Y). [2 0-2-1,Edge], [3 0-4-0,Edge], [5.0-4-0,Edge], [6:0-2-1,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0 95	Vert(LL)	0.81	9-10	>393	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 88	Vert(TL)	0.67	9-10	>472	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 78	Horz(TL)	-0 54	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 or 2-2-0 oc purlins
BOT CHORD Rigid ceiling directly applied

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

REACTIONS (lb/size) 2=788/0-3-8 (min. 0-1-8) 6=788/0-3-8 (min 0-1-8)
Max Horz 2=-271(LC 10)
Max Uplift2=-416(LC 12) 6=-416(LC 13)
Max Grav 2=937(LC 2) 6=937(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2795/4176 3-4=-1961/2704 4-5=-1961/2705 5-6=-2817/4191
BOT CHORD 2 10=-3511/2430 9-10=-3376/2450 8-9=-3391/2472 6-8=-3527/2453
WEBS 4-9=-2486/1472 5-9=-858/1496 5-8=-568/189 3-9=-861/1498 3-10=-569/189

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· 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) 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) except (jt=lb) 2=416 6=416
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

October 3,2013

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1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

1) Regular: Lumber Increase=1 25 Plate Increase=1 25
   Uniform Loads (plf)
   Vert 1-28=-44 4-30=-44 4-34=-44 6-7=-44 9-27=-10 9-31=-10
2) Regular Only: Lumber Increase=1 25, Plate Increase=1 25
   Uniform Loads (plf)
   Vert 1 28=-54 4-30=-54, 4-34=-54 6-7=-54 9-27=-10 9-31=-10
3) IBC BC Live Lumber Increase=1 25, Plate Increase=1 25
   Uniform Loads (plf)
   Vert. 1-28=-14 4-30=-14 4-34=-14 6-7=-14 9-27=-30 9-31=-30
4) C-C Wind Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1-2=62, 2 28=38 4-30=38 4-34=38 6-7=31 9-27=80 9-31=80
   Horz 1-2=-70 2-28=-46 4-30=-46, 4-34=46 6-7=39 9-27=-86 9-31=86
5) 2nd C C Wind Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1 2=31 2-28=38 4-30=38 4-34=38 6-7=62 9-27=80 9-31=80
   Horz 1-2=-39, 2-28=-46 4-30=-46 4-34=46 6-7=70 9-27=-86 9-31=86
6) C-C Wind Positive Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1 2=17 2-28=-52 4-30=-52 4-34=-52 6-7=-45 9-27=2 9-31=2
   Horz 1-2=-31 2-28=38 4-30=38 4-34=-38 6-7=-31 9-27=-12 9-31=12
7) 2nd C-C Wind Positive Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert. 1-2=-45, 2-28=-52 4-30=-52 4-34=-52 6-7=17 9-27=2 9-31=2
   Horz 1 2=31 2-28=38 4-30=38, 4-34=-38 6-7=31 9-27=-12 9-31=12
8) MWFRS Wind Left Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert. 1-2=4 2-28=-12 4-30=-12 4-34=19 6-7=12 9-27=17 9-31=17
   Horz 1 2=-13 2 28=4 4-30=4 4-34=28 6-7=21 9-27=-23 9-31=23
9) MWFRS Wind Right: Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert. 1-2=12 2-28=19 4-30=19 4-34=-12 6-7=4 9-27=17 9-31=17
   Horz 1 2=-21 2-28=-28 4-30=-28 4-34=-4 6-7=13 9-27=-23 9-31=23
10) MWFRS Wind Left Positive Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1-2=-25 2-28=-32 4-30=-32 4-34=-0 6-7=7 9-27=13 9-31=13
   Horz. 1 2=11 2-28=18 4-30=18 4-34=14 6-7=21 9-27=-23 9-31=23
11) MWFRS Wind Right Positive Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1-2=7 2-28=-0 4-30=-0 4-34=-32 6-7=-25 9-27=13 9-31=13
   Horz. 1-2=-21 2 28=-14 4-30=-14 4-34=-18 6-7=-11 9-27=-23 9-31=23
12) MWFRS 1st Wind Parallel Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1-2=33 2 28=40, 4-30=40 4-34=19 6-7=12 9-27=-6 9-31=-6
   Horz. 1 2=-42 2 28=-49 4-30=-49 4-34=28 6-7=21
13) MWFRS 2nd Wind Parallel Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1-2=12 2 28=19 4-30=19 4-34=40 6-7=33 9-27=-6 9-31=-6
   Horz. 1-2=-21 2 28=-28 4-30=-28 4-34=49 6-7=42
14) MWFRS 3rd Wind Parallel Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert 1 2=33 2 28=40 4-30=40 4-34=19 6-7=12 9-27=-6 9-31=-6
   Horz. 1-2=-42 2-28=-49 4-30=-49 4-34=28 6-7=21
15) MWFRS 4th Wind Parallel Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert. 1-2=12, 2-28=19 4-30=19 4-34=40 6-7=33 9-27=-6 9-31=-6
   Horz. 1-2=-21 2 28=-28, 4-30= 28 4-34=49 6-7=42
16) MWFRS 1st Wind Parallel Positive Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert. 1-2=28 2 28=21 4-30=21 4-34=-0 6-7=7 9-27=-10, 9-31= 10
   Horz 1-2=-42 2 28=-35 4-30=-35 4-34=14 6-7=21
17) MWFRS 2nd Wind Parallel Positive Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert. 1 2=7 2 28=-0 4-30=-0 4-34=21 6-7=28 9-27=-10 9-31=-10
   Horz 1-2=-21 2-28=-14 4-30=-14, 4-34=35 6-7=42
18) Live Only: Lumber Increase=0 90 Plate Increase=0 90 Plt metal=0 90
   Uniform Loads (plf)
   Vert: 1-28=-14 4-30=-14 4-34=-14 6-7=-14 9-27=-10, 9-31=-10
19) C-C Wind Positive + Regular: Lumber Increase=1 60, Plate Increase=1 60
   Uniform Loads (plf)
   Vert: 1-2=-21 2-28=-73, 4-30=-73, 4-34=-73, 6-7=-67 9-27=-1 9-31=-1
   Horz 1-2=-23 2-28=29, 4-30=29 4-34=-29 6-7=-23, 9-27=-9, 9-31=9
20) 2nd C-C Wind Positive + Regular Lumber Increase=1 60 Plate Increase=1 60
   Uniform Loads (plf)
   Vert. 1-2=-67 2 28=-73, 4-30=-73 4-34=-73, 6-7=-21 9-27=-1 9-31=-1
   Horz. 1-2=23, 2-28=29, 4-30=29, 4-34=-29 6-7=23, 9-27=-9 9-31=9
21) MWFRS Wind Left Positive + Regular: Lumber Increase=1 60 Plate Increase=1 60

Continued on page 3

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T19	Special Truss	3	1	I7330365
					Job Reference (optional)

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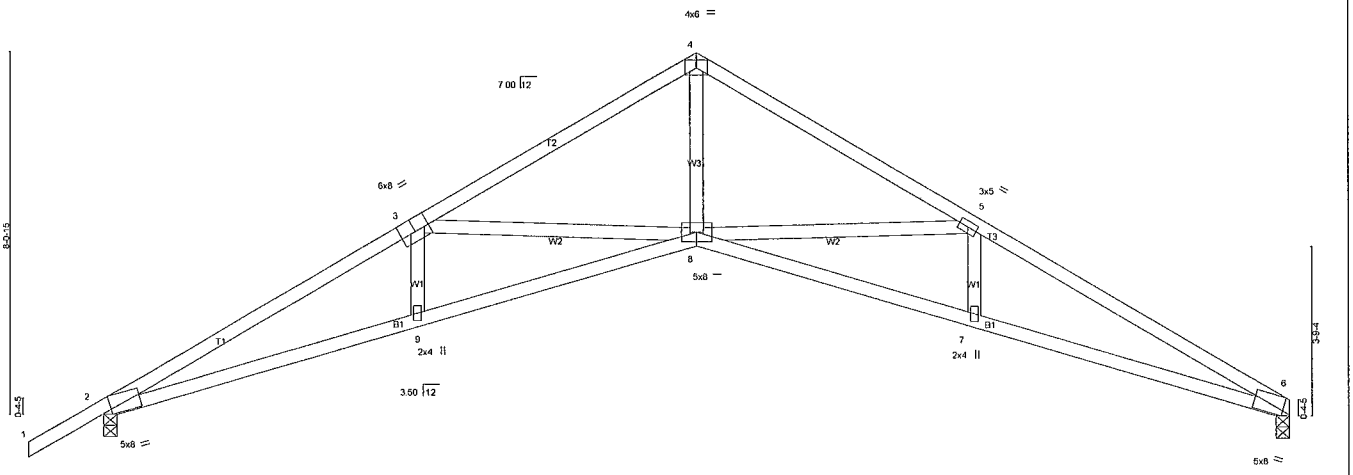
1-8-0 | 7-0-5 | 13-2-12 | 19-5-3 | 26-5-8

1-8-0 | 7-0-5 | 6-2-7 | 6-2-7 | 7-0-5

Scale 1 48 5



7-0-5 | 13-2-12 | 19-5-3 | 26-5-8

7-0-5 | 6-2-7 | 6-2-7 | 7-0-5

Plate Offsets (X,Y) [2 0-2-1,Edge], [3 0-4-0,Edge], [6.0-2-1,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	0.98	Vert(LL)	0 82	8-9	>388	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.92	Vert(TL)	0 68	8-9	>464	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 80	Horz(TL)	-0 55	6	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 119 lb	FT = 20%

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

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

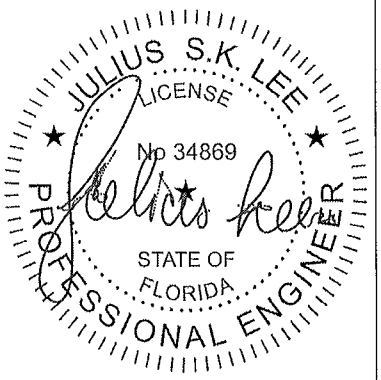
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=790/0-3-8 (min 0-1-8) 6=713/0-3-8 (min 0-1-8)
Max Horz 2=260(LC 11)
Max Uplift2=-417(LC 12) 6=-359(LC 13)
Max Grav 2=939(LC 2) 6=844(LC 2)

FORCES (lb) Max. Comp./Max Ten. All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2805/4244 3-4=-1946/2759 4-5=-1946/2761 5-6= 2798/4253
BOT CHORD 2-9=-3614/2420 8-9=-3477/2438 7-8=-3449/2429 6-7=-3623/2410
WEBS 4-8=-2546/1466 5-8=-854/1469 5-7=-584/195 3-8=-862/1495 3-9=-567/189

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 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) 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) except (jt=lb) 2=417 6=359
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



October 3,2013

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	SIMQUE HARTSVILLE MODEL
523546	T21	Special Truss	1	1	I7330367
					Job Reference (optional)

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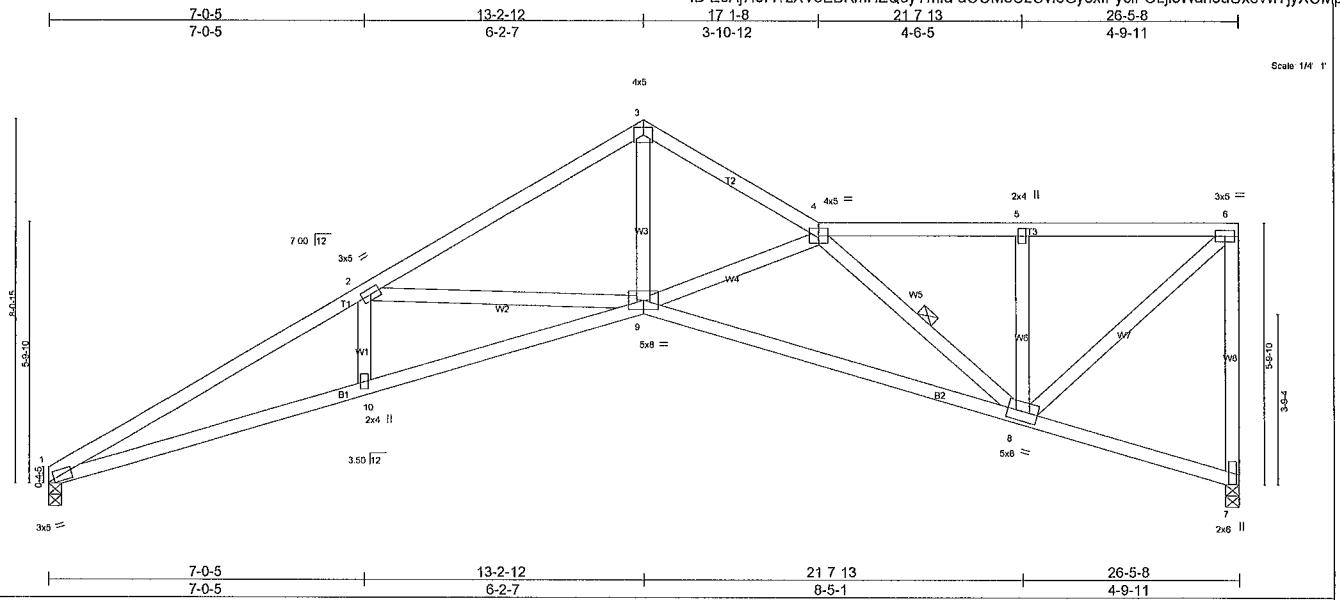

Plate Offsets (X,Y). [1.0-1-9,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	0.24	9-10	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.44	8-9	>717	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 71	Horz(TL)	0 29	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight 139 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-13 oc purlins except end verticals
BOT CHORD Rigid ceiling directly applied or 5-0-5 oc bracing
WEBS 1 Row at midpt 4-8

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

REACTIONS (lb/size) 1=712/0-3-8 (min. 0-1-8) 7=709/0-3-8 (min 0-1-8)
Max Horz 1=213(LC 12)
Max Uplift 1=-189(LC 12) 7=-220(LC 13)
Max Grav 1=844(LC 2) 7=840(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-3115/1327 2-3=-2140/944 3-4=-2107/957 4-5=-950/445 5-6=-950/445 6-7=-955/476
BOT CHORD 1 10=-1348/2849 9-10=-1347/2850 8-9=-1051/2233
WEBS 2-9=-963/513 3-9=-758/1711 4-9=-403/247 4-8=-1613/759 5-8=-297/223 6-8=-592/1269

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) 1 7 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=189 7=220
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

October 3,2013

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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	SIMQUE HARTSVILLE MODEL
523546	T23	Special Truss	1	1	I7330369
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries Inc. Wed Oct 02 17:01:48 2013 Page 1

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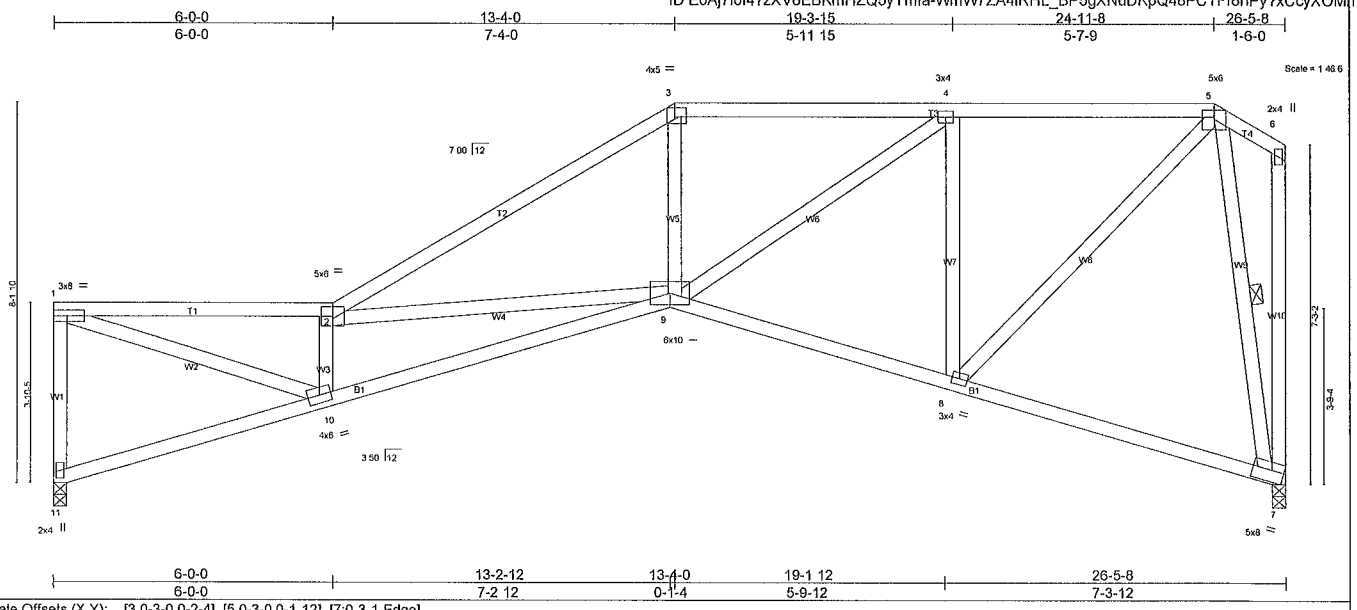


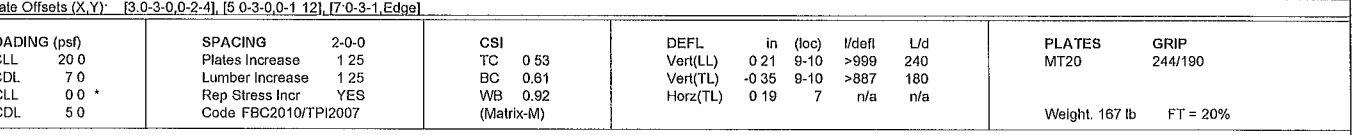


Plate Offsets (X,Y): [3.0-3-0,0-2-4], [5 0-3-0,0-1 12], [7 0-3-1,Edge]

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 53	Vert(LL)	0 21	9-10	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1 25	BC	0.61	Vert(TL)	-0 35	9-10	>887	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.92	Horz(TL)	0 19	7	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 167 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-6 oc bracing
WEBS 1 Row at midpt 5-7

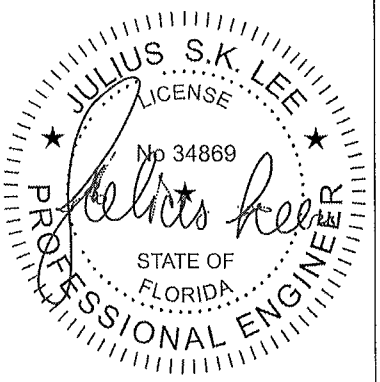
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 11=707/0-3-8 (min 0-1-8) 7=707/0-3-8 (min 0-1-8)
Max Horz 11=127(LC 12)
Max Uplift 11=-188(LC 12) 7=-196(LC 9)
Max Grav 11=837(LC 2) 7=837(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 1 11=-916/469 1-2=-2298/1075 2-3=-1948/926 3-4=-1662/879 4-5=-885/484
BOT CHORD 9-10=-1352/2618 8-9=-471/905
WEBS 1 10=-1120/2400 2-10=-1413/744 2-9=-851/443 4-9=-475/933 4-8=-856/522 5-8=-516/1006
5-7=-946/523 3-9=-199/506

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) 11 7 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) 11=188, 7=196.
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



October 3,2013

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	SIMQUE HARTSVILLE MODEL
523546	T25	Special Truss	1	1	I7330371
					Job Reference (optional)

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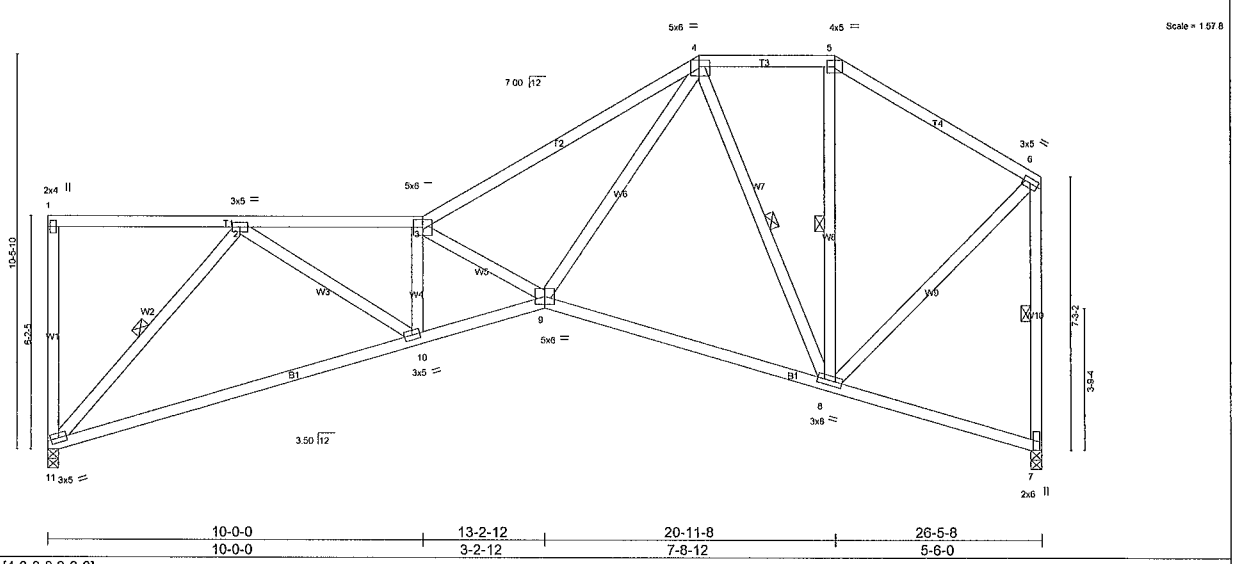

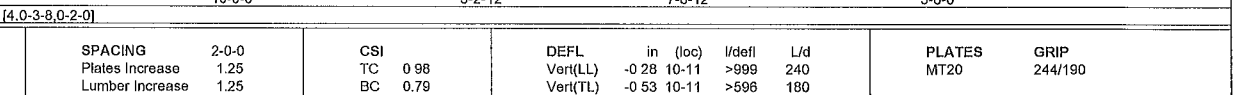

Plate Offsets (X,Y): [4,0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0 98	Vert(LL)	-0 28	10-11	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0 53	10-11	>596	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 71	Horz(TL)	0 16	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight 179 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-10 oc bracing
WEBS 1 Row at midpt 2-11 4-8, 5-8, 6-7

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

REACTIONS (lb/size) 11=707/0-3-8 (min 0-1-8) 7=707/0-3-8 (min 0-1-8)
Max Horz 11=105(LC 9)
Max Uplift 11=-213(LC 12) 7=-184(LC 12)
Max Grav 11=837(LC 2) 7=837(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1970/882 3-4=-1891/864 4-5=-590/348 5-6=-688/330 6-7=-993/454
BOT CHORD 10-11=-510/943 9-10=-1003/2133 8-9=-363/810
WEBS 2-11=-1315/667 2-10=-540/1330 3-10=-986/493 3-9=-614/323 4-9=-640/1415 4-8=-725/367
6-8= 278/687

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) 11 7 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) 11=213, 7=184
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

October 3,2013

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL	I7330373
523546	T27	Special Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

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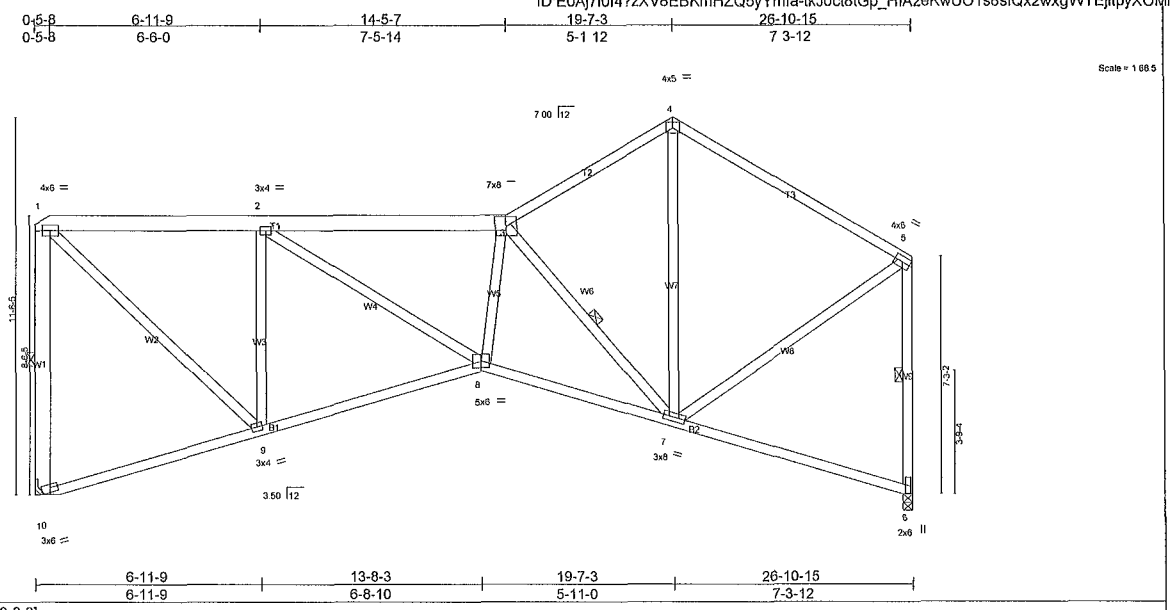


Plate Offsets (X,Y) [10:0-3-0,0-0-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0.88	Vert(LL)	0 09	8	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0 16	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(TL)	0.11	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 202 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except*
T1 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No 3 *Except*
W1 2x6 SP No 2

BRACING
TOP CHORD Structural wood sheathing directly applied except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-4 oc bracing
WEBS 1 Row at midpt 3-7 1 10, 5-6

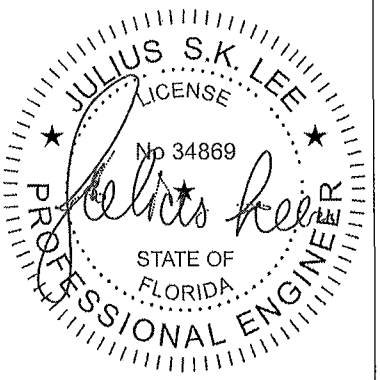
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=716/0-3-8 (min. 0-1-8) 10=716/Mechanical
Max Horz 10=-101(LC 8)
Max Uplift6=-188(LC 12) 10=-239(LC 12)
Max Grav 6=849(LC 2) 10=849(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 1 2= 792/392 2-3=-1443/664 3-4=-790/385 4-5=-799/361 1 10=-886/476 5-6=-992/438
BOT CHORD 8-9=-361/796 7-8=-630/1429
WEBS 1 9=-533/1074 2-9=-888/526 2-8=-322/775 3-8=-68/298 3-7=-1246/613, 4-7=-116/320
5-7 -236/661

NOTES (10-13)
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 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) 6 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) 6=188, 10=239
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
13) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



October 3,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T29	Hip Truss	1	1	I7330375
					Job Reference (optional)

Builders FirstSource Lake City FL 32055

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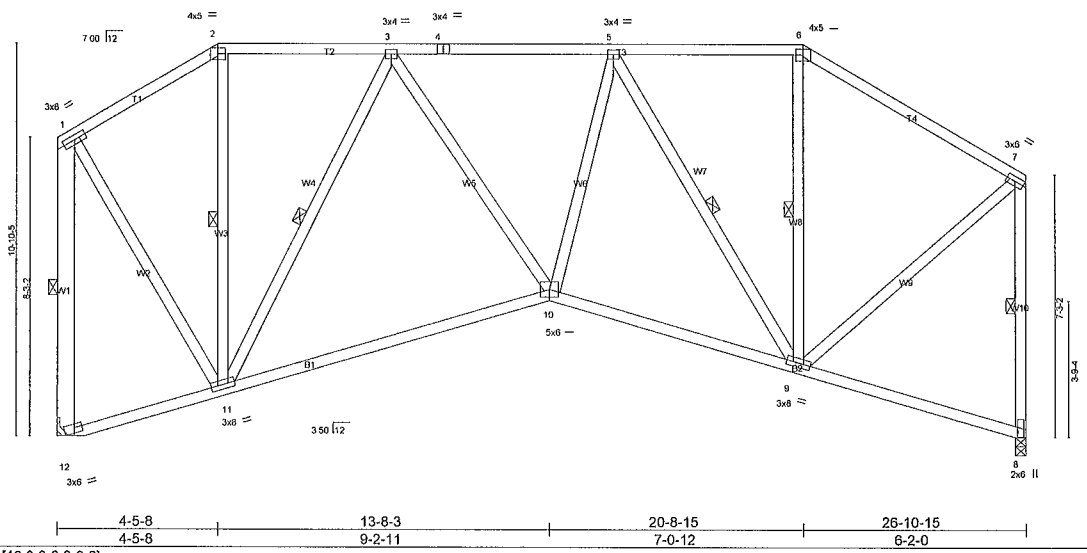


Plate Offsets (X,Y) [12 0-3-0,0-0-8]

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)	-0.20	10-11	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 55	Vert(TL)	-0.37	10-11	>869	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 39	Horz(TL)	0 07	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight 215 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No 2
WEBS 2x4 SP No.3 *Except*
W1 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing
WEBS 1 Row at midpt 2-11 3-11 5-9 6-9 1 12 7-8

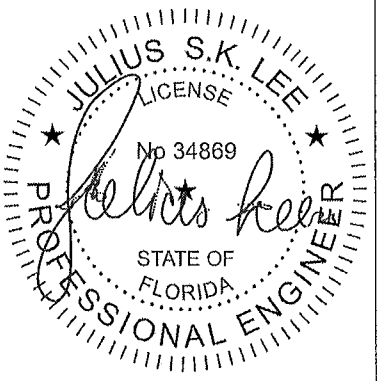
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=716/0-3-8 (min 0-1 8) 12=716/Mechanical
Max Horz 12=-87(LC 8)
Max Uplift8=-163(LC 8) 12=-172(LC 9)
Max Grav 8=849(LC 2) 12=849(LC 2)

FORCES (lb) Max Comp./Max. Ten All forces 250 (lb) or less except when shown
TOP CHORD 1 2=-503/263 2-3=-428/276 3-4=-932/535 4-5=-932/535 5-6=-588/371 6-7=-688/347
1 12=-937/456 7-8=-931/449
BOT CHORD 10-11=-315/678, 9-10=-387/824
WEBS 3-11=-695/406 3-10=-144/359 5-9=-629/312 1 11=-294/655 7-9=-264/622

NOTES (10-13)
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 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) 8 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=163, 12=172
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
13) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



October 3,2013

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL
523546	T31	Hip Truss	1	1	I7330377
					Job Reference (optional)

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5-4-0	7-3-3	7-3-3	7-0-8

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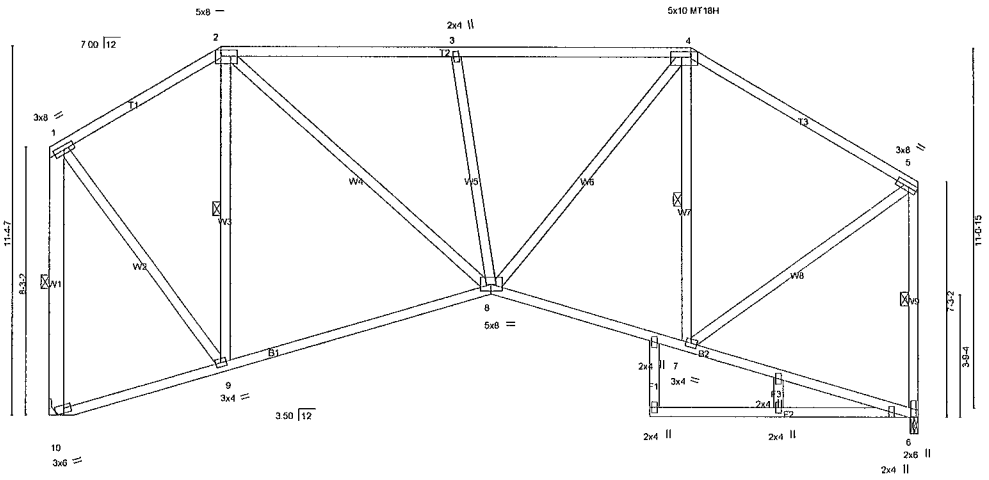


5-4-0	13-8-3	18-6-15	19-10-7	26-10-15
5-4-0	8-4-3	4-10-12	1-3-8	7-0-8

Plate Offsets (X,Y) [2.0-6-0,0-2-4], [4.0-7-8,0-2-0], [10.0-3-0,0-0-8]

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 80	Vert(LL) -0 14 8-9 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0.43	Vert(TL) -0 26 8-9 >999 180	MT18H 244/190
BCLL 0 0 *	Rep Stress Incr YES	WB 0 82	Horz(TL) 0 06 6 n/a n/a	
BCDL 5 0	Code FBC2010/TPI2007	(Matrix-M)		Weight. 222 lb FT = 20%

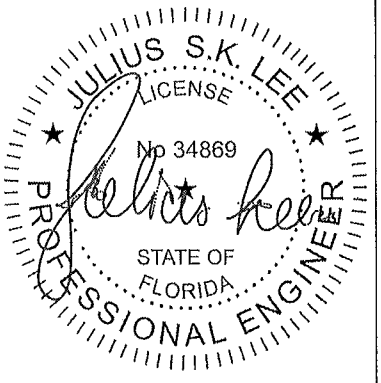
LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
F2. 2x4 SP No 3
WEBS 2x4 SP No.3 *Except*
W1 2x6 SP No 2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing
WEBS 1 Row at midpt 2-9 4-7 1 10 5-6

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

REACTIONS (lb/size) 6=716/0-3-0 (min. 0-1-8) 10=716/Mechanical
Max Horz 10=-100(LC 8)
Max Uplift6=-146(LC 8) 10=-152(LC 9)
Max Grav 6=849(LC 2) 10=849(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 1 2=-575/298 2-3=-976/583, 3-4=-910/533, 4-5=-748/370 1 10=-946/459 5-6=-941/450
BOT CHORD 8-9=-158/403 7-8=-228/547
WEBS 2-9=-536/322 2-8=-356/652 3-8=-457/334 4-8=-207/475 4-7=-434/252 1-9=-282/639
5-7=-253/618



NOTES (11 14)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7 10 Vult=130mph (3-second gust) Vasd=101mph TCDL=4 2psf BCDL=3 0psf h=18ft; Cat. II Exp C, Encl GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) All plates are MT20 plates unless otherwise indicated
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
8) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=146, 10=152
10) 'Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer Julius Lee PE Florida P E License No. 34869 Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435
14) Use Simpson H'TU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

October 3,2013

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	SIMQUE HARTSVILLE MODEL	I7330379
523546	T33	Hip Truss	1	1	Job Reference (optional)	

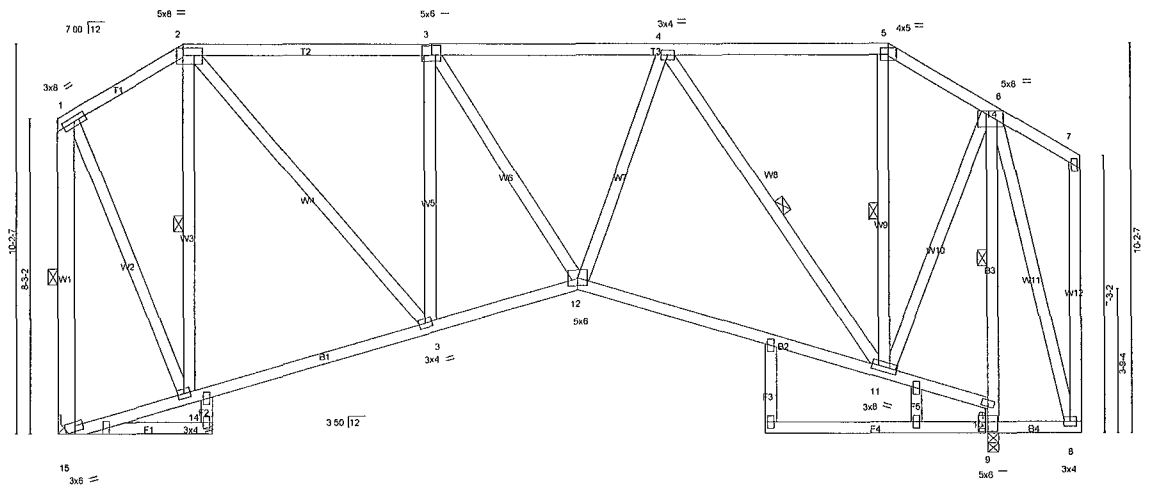
Builders FirstSource Lake City FL 32055

7 350 s Sep 27 2012 MiTek Industries, Inc. Wed Oct 02 17:02:01 2013 Page 1

ID:E0Aj7l0l4?zXV8EBKmHZQ5yYmla-eHo1IcEuNG_8FPaAocdGLYTKZfg?odMhOTf79MyXOMa

3-4-0	9-9-14	15-10-13	21 10-7	24-5-7	26-10-15
3-4-0	6-5-14	6-0-14	5-11 10	2-7 0	2-5-8

Scale = 1:57 0



3-4-0	4-0-15	9-9-14	13-8-3	18-6-15	21 10-7	24-5-7	26-10-15
3-4-0	0-8-15	5-8-15	3-10-5	4-10-12	3-3-8	2-7-0	2-5-8

Plate Offsets (X,Y). [2.0-6-0,0-2-4], [3.0-3-0,0-3-0], [6:0-1 15,Edge], [9:0-3-0,0-3-0], [15.0-3-0,0-0-8]

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 13	11 12	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1 25	BC	0.45	Vert(TL)	-0.25	11 12	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.07	9	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 262 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B3,F1 F4 2x4 SP No.3
WEBS 2x4 SP No 3 *Except*
W1 2x6 SP No 2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing Except.
6-0-0 oc bracing: 8-9
1 Row at midpt 6-10
5-7-0 oc bracing 9-10
WEBS 1 Row at midpt 2-14 4-11 5-11 1 15

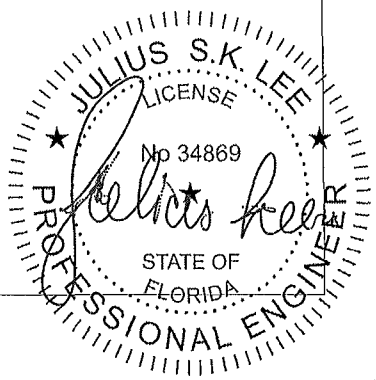
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=780/0-3-8 (min 0-1 8) 15=653/Mechanical
Max Horz 15=-71(LC 8)
Max Uplift9=-200(LC 8) 15=-186(LC 9)
Max Grav 9=925(LC 2) 15=774(LC 2)

FORCES (lb) Max Comp./Max. Ten All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-356/195 2-3=-713/433 3-4=-815/480 4-5=-301/224 5-6=-353/221 1 15= 830/421
BOT CHORD 13-14=-117/260 12-13=-319/682 11 12=-341/683 9-10=-1001/479 6-10=-991/468
WEBS 2-14=-585/349 2 13=-341/617 3-13=-529/352 4-12=-81/301 4-11=-743/405 6-11=-262/630
1 14=-305/622

NOTES (10-13)
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 C, Encl GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) All plates are 2x4 MT20 unless otherwise indicated
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=200 15=186.
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
13) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



October 3,2013

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	SIMQUE HARTSVILLE MODEL	I7330381
523546	T35	Half Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries Inc. Wed Oct 02 17:02:05 2013 Page 1

ID:E0Aj7l0l4?zXV8EBKmHZQ5yYmIa-W22Y7_HPRVUak0ux1RhCWOe_yG0skMiHJ5dLI7yXOMW

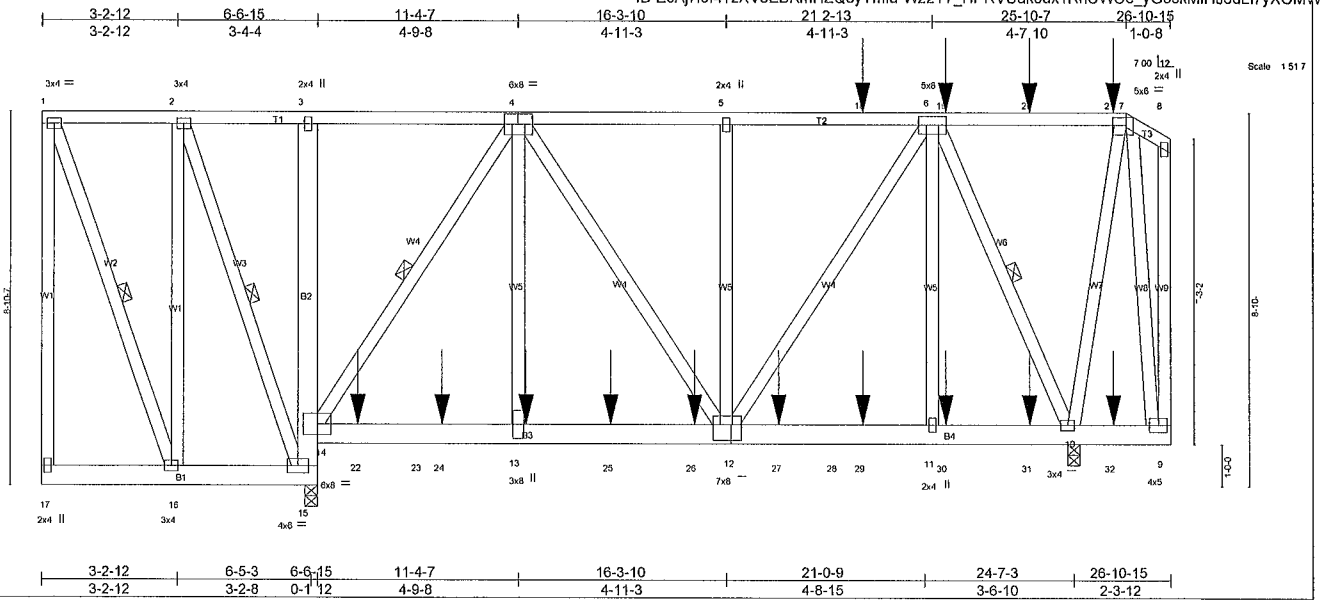


Plate Offsets (X,Y) [7 0-4-0,0-2-4], [12,0-3-0,0-4-8]

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 52	Vert(LL) -0 06 12-13 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1 25	BC 0 52	Vert(TL) -0 11 12 13 >999 180	
BCLL 0 0 *	Rep Stress Incr NO	WB 0 83	Horz(TL) 0 03 10 n/a n/a	
BCDL 5 0	Code FBC2010/TPI2007	(Matrix-M)		Weight. 284 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11 11 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing Except.
6-0-0 oc bracing 15-16
4-8-4 oc bracing 14-15.
WEBS 1 Row at midpt 1 16 2-15 4-14 6-10

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

REACTIONS (lb/size) 15=2324/0-3-8 (min 0-3-2) 10=1785/0-3-8 (min 0-2-6)
Max Horz 15=-18(LC 9)
Max Uplift 15=-1172(LC 4) 10=-1190(LC 4)
Max Grav 15=2623(LC 2) 10=2012(LC 2)

FORCES (lb) Max Comp./Max Ten All forces 250 (lb) or less except when shown
TOP CHORD 4-5=-1212/619 5-18=-1208/617 6-18=-1208/617
BOT CHORD 14-15=-2317/1094, 14-22=-500/994 22-23=-500/994 23-24=-500/994 13-24=-500/994 13-25=-500/994 25-26=-500/994 12-26=-500/994 12-27=-359/646 27 28= 359/646, 28-29=-359/646 11 29=-359/646, 11-30=-359/646 30-31=-359/646, 10-31=-359/646
WEBS 2 15=-290/82 4-14=-1988/949 4-13=-493/1065 4-12=-214/391 5-12=-283/144 6-12=-472/1038, 6-11= 79/275 6-10=-1688/939 7 10=-291/203

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) Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf
5) All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=1172 10=1190
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) 114 lb down and 135 lb up at 19-8-3 114 lb down and 135 lb up at 21-8-3, and 114 lb down and 135 lb up at 23-8-3 and 113 lb down and 134 lb up at 25-8-3 on top chord and 382 lb down and 200 lb up at 7-8-3 382 lb down and 200 lb up at 9-8-3, 382 lb down and 200 lb up at 11-8-3 382 lb down and 200 lb up at 13-8-3, 382 lb down and 200 lb up at 15-8-3 382 lb down and 200 lb up at 17-8-3 86 lb down and 64 lb up at 19-8-3, 86 lb down and 64 lb up at 21-8-3 and 86 lb down and 64 lb up at 23-8-3, and 86 lb down and 88 lb up at 25-8-3 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

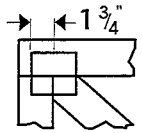
October 3,2013

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

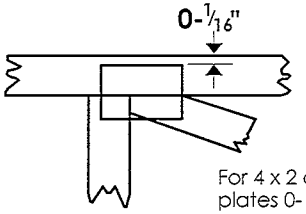
Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Symbols

PLATE LOCATION AND ORIENTATION



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



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

This symbol indicates the required direction of slots in connector plates

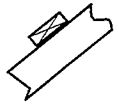
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

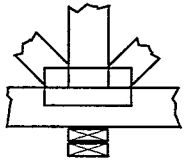
The first dimension is the plate width measured perpendicular to slots Second dimension is the length parallel to slots

LATERAL BRACING LOCATION



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

BEARING

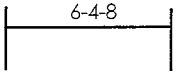


Indicates location where bearings (supports) occur Icons vary but reaction section indicates joint number where bearings occur

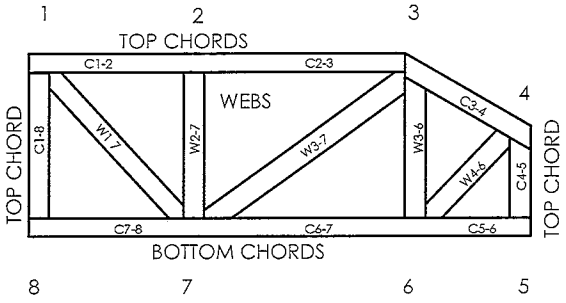
Industry Standards:

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

Numbering System



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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1 Additional stability bracing for truss system e.g diagonal or X-bracing is always required See BCSI1

2. Truss bracing must be designed by an engineer For wide truss spacing individual lateral braces themselves may require bracing or alternative T I, or Eliminator bracing should be considered

3 Never exceed the design loading shown and never stack materials on inadequately braced trusses.

4 Provide copies of this truss design to the building designer erection supervisor property owner and all other interested parties

5. Cut members to bear tightly against each other

6. Place plates on each face of truss at each joint and embed fully Knots and wane at joint locations are regulated by ANSI/TPI 1

7 Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1

8 Unless otherwise noted moisture content of lumber shall not exceed 19% at time of fabrication

9 Unless expressly noted this design is not applicable for use with fire retardant preservative treated or green lumber

10 Camber is a non-structural consideration and is the responsibility of truss fabricator General practice is to camber for dead load deflection

11 Plate type size orientation and location dimensions indicated are minimum plating requirements

12 Lumber used shall be of the species and size and in all respects equal to or better than that specified

13 Top chords must be sheathed or purlins provided at spacing indicated on design

14 Bottom chords require lateral bracing at 10 ft spacing or less, if no ceiling is installed unless otherwise noted

15 Connections not shown are the responsibility of others

16. Do not cut or alter truss member or plate without prior approval of an engineer

17 Install and load vertically unless indicated otherwise

18 Use of green or treated lumber may pose unacceptable environmental health or performance risks. Consult with project engineer before use

19 Review all portions of this design (front back, words and pictures) before use Reviewing pictures alone is not sufficient

20 Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria

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

MiTek Industries, Chesterfield, MO

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.

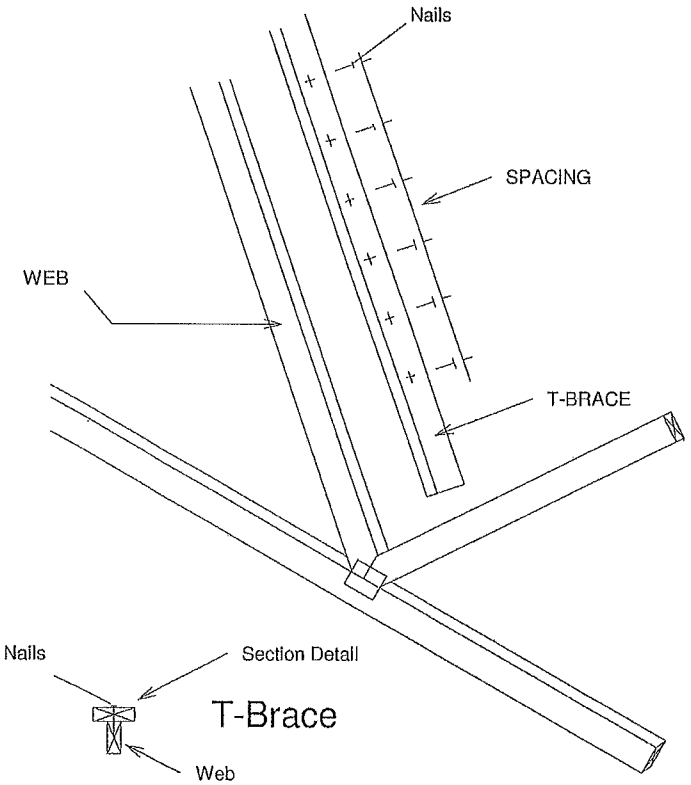
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

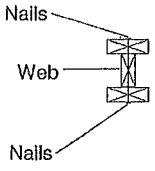
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note. Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	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

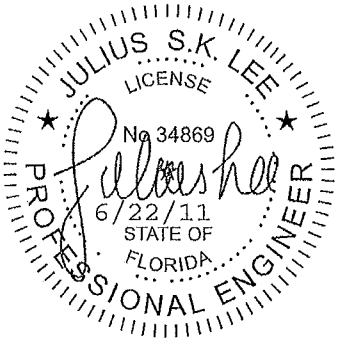
	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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, 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

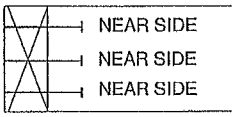
	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)					
	DIAM.	SYP	DF	HF	SPF	SPF-S
3.5" LONG	131	88.0	80 6	69 9	68 4	59 7
	.135	93.5	85 6	74.2	72.6	63 4
	162	108 8	99 6	86.4	84.5	73 8
3.25" LONG	128	74.2	67.9	58.9	57 6	50.3
	.131	75.9	69 5	60 3	59 0	51 1
	148	81 4	74.5	64.6	63.2	52.5

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

SIDE VIEW

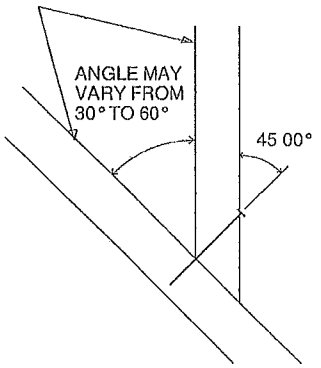
3 NAILS

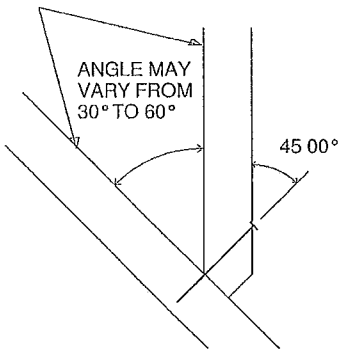


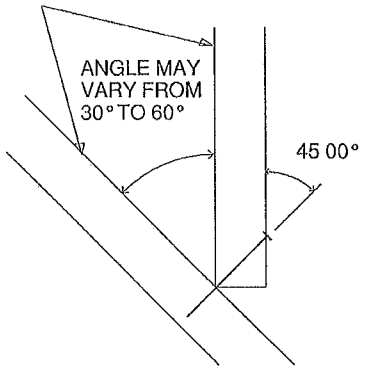
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED

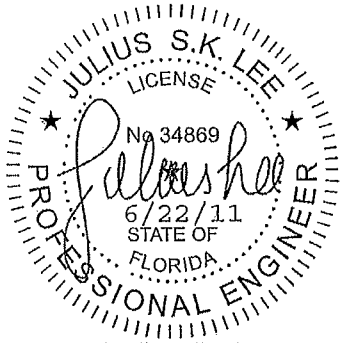
EXAMPLE
(3) - 16d NAILS (162" diam x 3 5") WITH SPF SPECIES BOTTOM CHORD

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

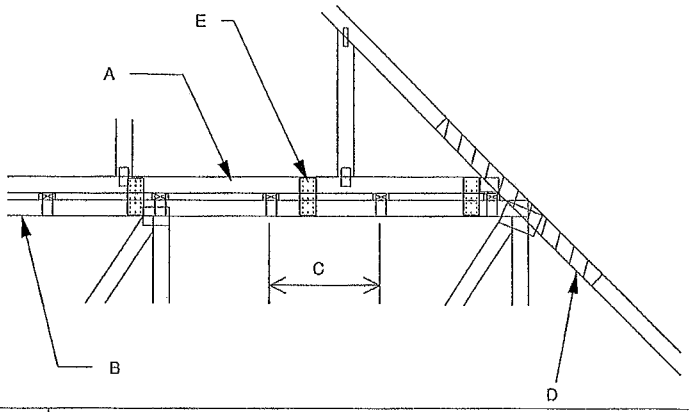
A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5' TOE NAILED

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

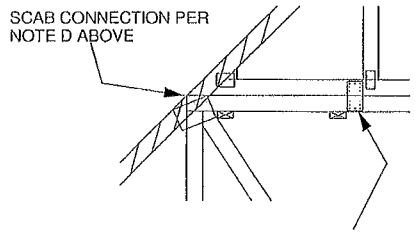
D - 2 X__ X 4'-0' SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION WITH (2) ROWS OF 0.131 X 3' NAILS @ 4 O.C SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT IN BOTH DIRECTIONS AND·
1 WIND SPEED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

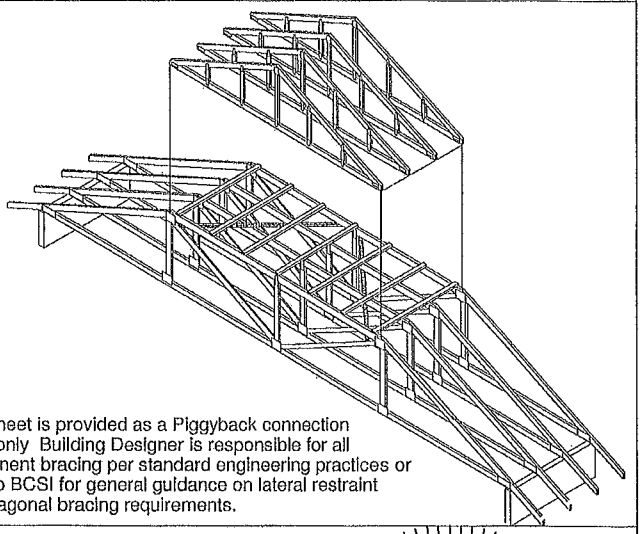


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS

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

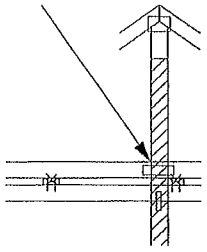


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48 O C W/ (4) 0 131 X 1 5" PER MEMBER STAGGER NAILS FROM OPPOSING FACES ENSURE 0 5 EDGE DISTANCE



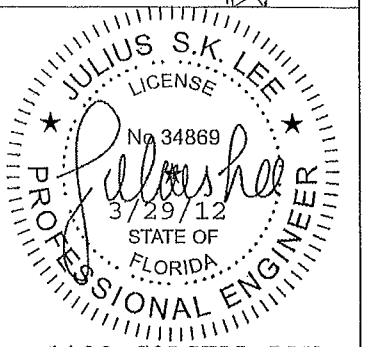
This sheet is provided as a Piggyback connection detail only Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

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

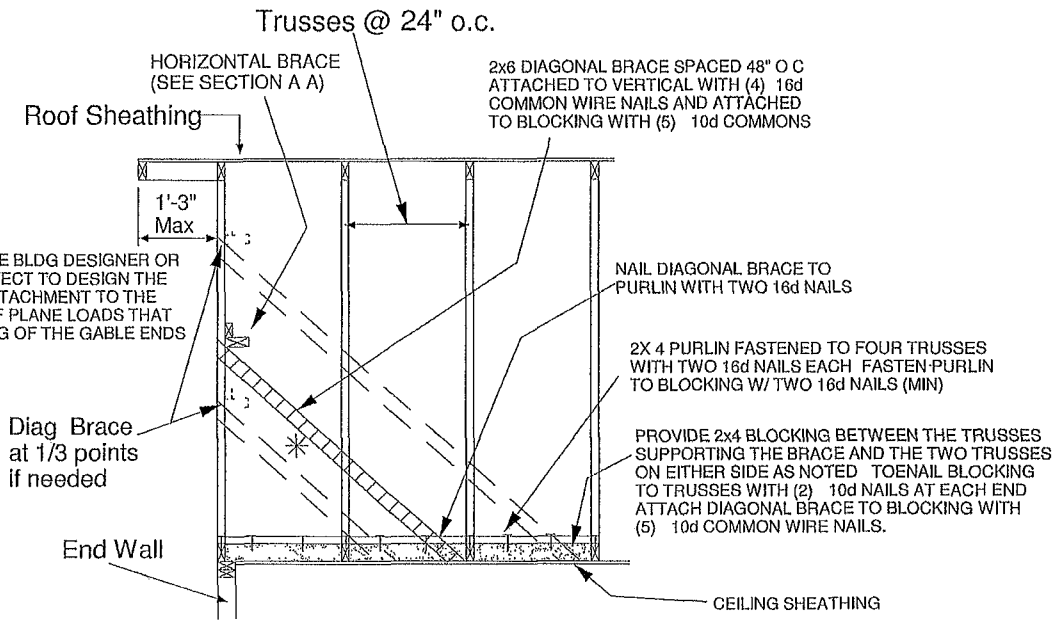


1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 14, 2012	Standard Gable End Detail	SHEET 2

MiTek Industries, Inc

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

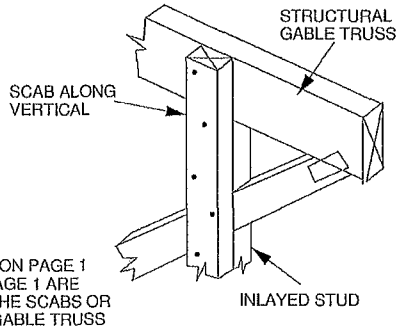
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED

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

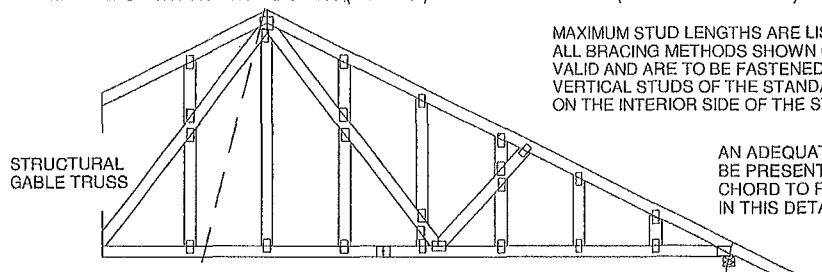
METHOD 2 ATTACH 2X_ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE

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

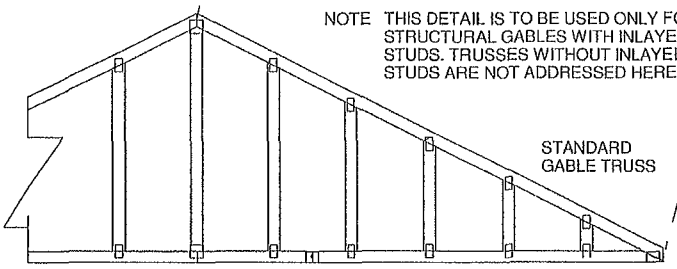


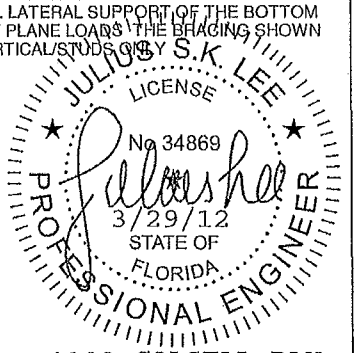
MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1 ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



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

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





1109 COASTAL BAY
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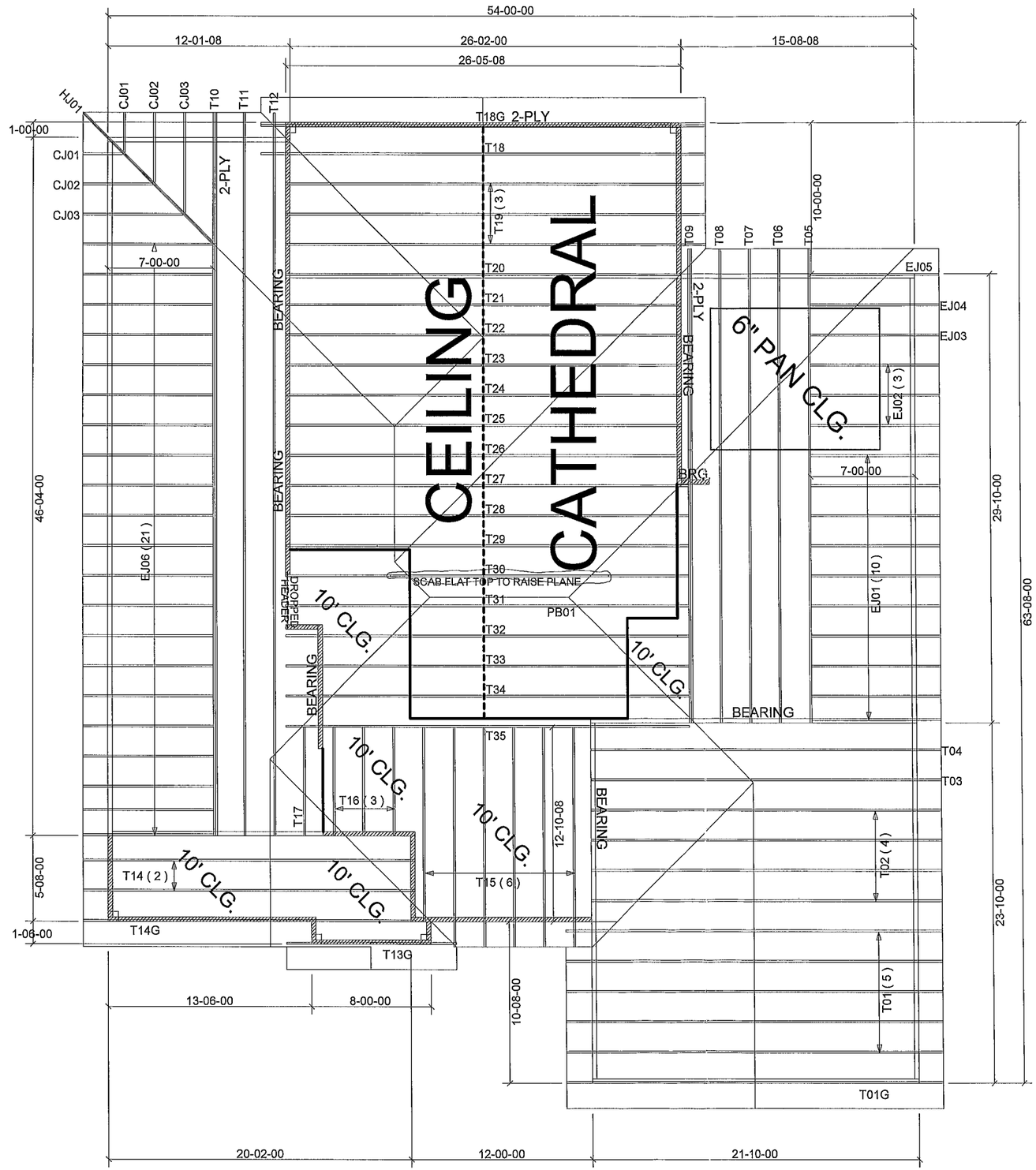
7/12 PITCH
20" O/H



BEARING HEIGHT SCHEDULE

- 9' 1-1/8"
- 10' 1-1/8"

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED

2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V10S FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP

7) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

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BUILDER: AARON SIMQUE HOMES

LEGAL ADDRESS: LOT 118 THE PRESERVE

MODEL	Revision	11-4-13
HARTSVILLE	Rev By	KLH
DATE: 10-2-13	DRAWN BY: KLH	Original Reference #: 523546
1st Level Job #	2nd Level Job #	Roof Job # 523546

MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, WEYERHAUSER PRODUCT #'s 1630.2 - 1630.10