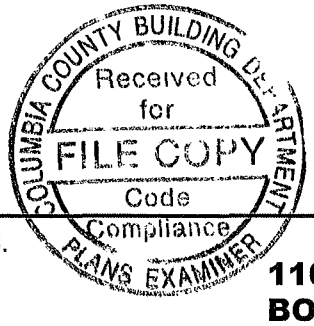
JULIUS LEE PE.



RE: 545372 - RONALD CLARK - REED RES.

1109 COASTAL BAY BLVD, BOYNTON BEACH, FL 33435

Site Information:
Project Customer: Ronald Clark Const. Project Name. 545372 Model: Reed Res
Lot/Block: Subdivision:
Address: CR18
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: RONALD W CLARK License # CRC1326560
Address: 15816 NW CR 1491
City: ALACHUA State: FL

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

This package includes 32 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.

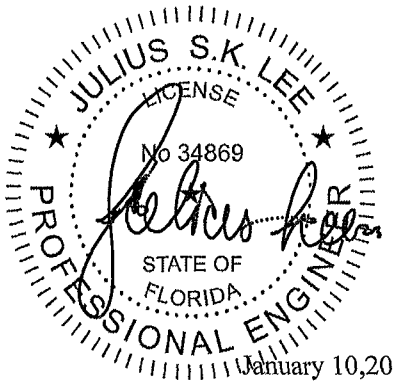
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I7699773	CJ01	1/10/014	18	I7699790	T09	1/10/014
2	I7699774	CJ02	1/10/014	19	I7699791	T10	1/10/014
3	I7699775	CJ03	1/10/014	20	I7699792	T11	1/10/014
4	I7699776	CJ04	1/10/014	21	I7699793	T12	1/10/014
5	I7699777	EJ01	1/10/014	22	I7699794	T13	1/10/014
6	I7699778	EJ02	1/10/014	23	I7699795	T14	1/10/014
7	I7699779	EJ03	1/10/014	24	I7699796	T15	1/10/014
8	I7699780	HJ01	1/10/014	25	I7699797	T16	1/10/014
9	I7699781	HJ02	1/10/014	26	I7699798	T17	1/10/014
10	I7699782	T01	1/10/014	27	I7699799	T18	1/10/014
11	I7699783	T02	1/10/014	28	I7699800	T19	1/10/014
12	I7699784	T03	1/10/014	29	I7699801	T20	1/10/014
13	I7699785	T04	1/10/014	30	I7699802	T21	1/10/014
14	I7699786	T05	1/10/014	31	I7699803	T22	1/10/014
15	I7699787	T06	1/10/014	32	I7699804	T23	1/10/014
16	I7699788	T07	1/10/014				
17	I7699789	T08	1/10/014				

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

Truss Design Engineer's Name: Julius Lee

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

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



January 10,2014

Julius Lee

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK - REED RES.	I7699773
545372	CJ01	Jack-Open Truss	12	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:27 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-EGWHW39VCRMdTTND7VzxvOCDIsUDEB3F7hn3ryzwoNE

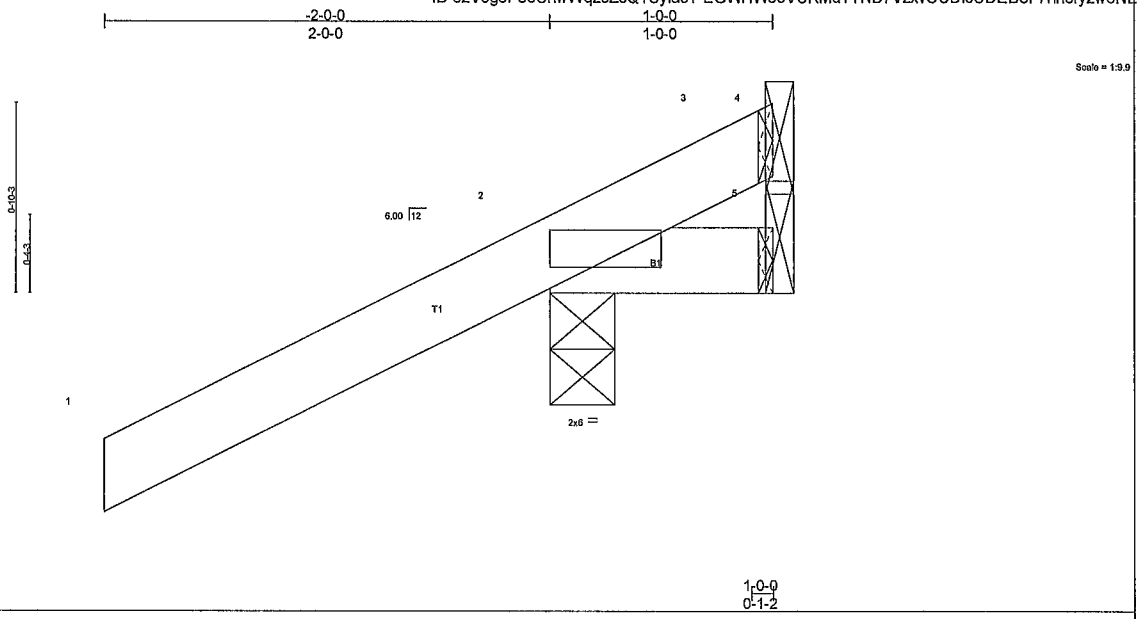


Plate Offsets (X,Y), [2.0-6-0,0-1-2]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.32	Vert(LL) 0.00 8 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.06	Vert(TL) 0.00 8 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 2 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 7 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

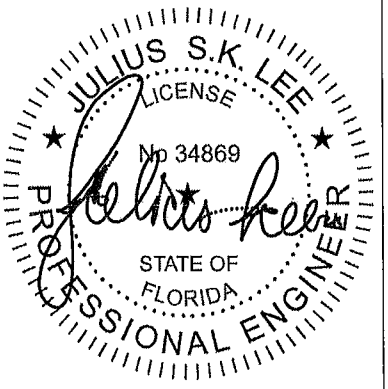
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=184/0-3-8 (min. 0-1-8) 5=-24/Mechanical 3=-21/Mechanical
Max Horz 2=67(LC 12)
Max Uplift 2=-138(LC 12), 5=-30(LC 2) 3=-27(LC 2)
Max Grav 2=225(LC 2) 5=24(LC 16) 3=18(LC 8)

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

NOTES (7-9)
1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4 2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 30 lb uplift at joint 5 and 27 lb uplift at joint 3.
6) 'Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee PE. Florida P E. License No. 34869 Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard



January 10,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK - REED RES.
545372	CJ03	Jack-Open Truss	8	1	I7699775 Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:29 2014 Page 1

ID:62V0g8P30UhwvvqzoZsQ1Cyla9?-Afe1wlAlk3cLimXcFw?P_pHZng71i5YYa?GAwqzwoNC

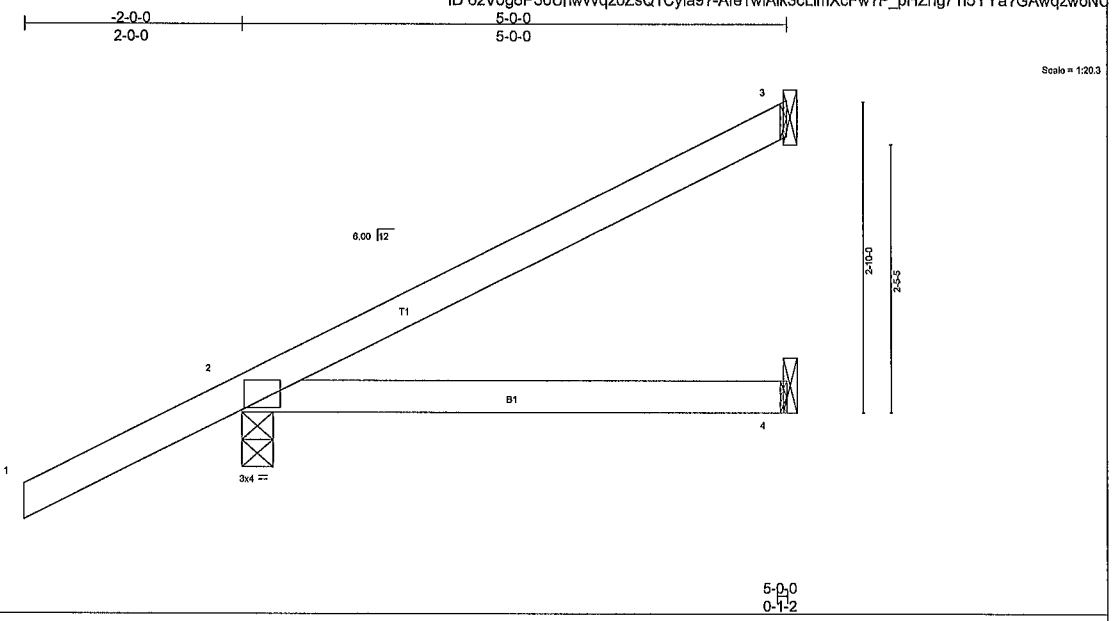


Plate Offsets (X,Y): [2:0-4-4,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1 25	TC	0.32	Vert(LL)	0.07	4-7	>904	240	MT20	244/190
TCDL	7.0	Lumber Increase	1 25	BC	0 23	Vert(TL)	0 06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 00	Horz(TL)	-0 00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

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

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

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

REACTIONS (lb/size) 3=79/Mechanical, 2=253/0-3-8 (min 0-1-8) 4=23/Mechanical
Max Horz 2=162(LC 12)
Max Uplift3=-93(LC 12) 2=-148(LC 12) 4=-35(LC 9)
Max Grav 3=97(LC 2), 2=304(LC 2) 4=56(LC 3)

FORCES (lb) Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-330/589
BOT CHORD 2-4=-952/504

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

LOAD CASE(S) Standard

January 10,2014

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

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

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	EJ01	Jack-Partial Truss	30	1	I7699777
					Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:31 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-72moLRC?Ggs3y4h_ML1t3EMqqTlsA?2r1JIG_jzwoNA

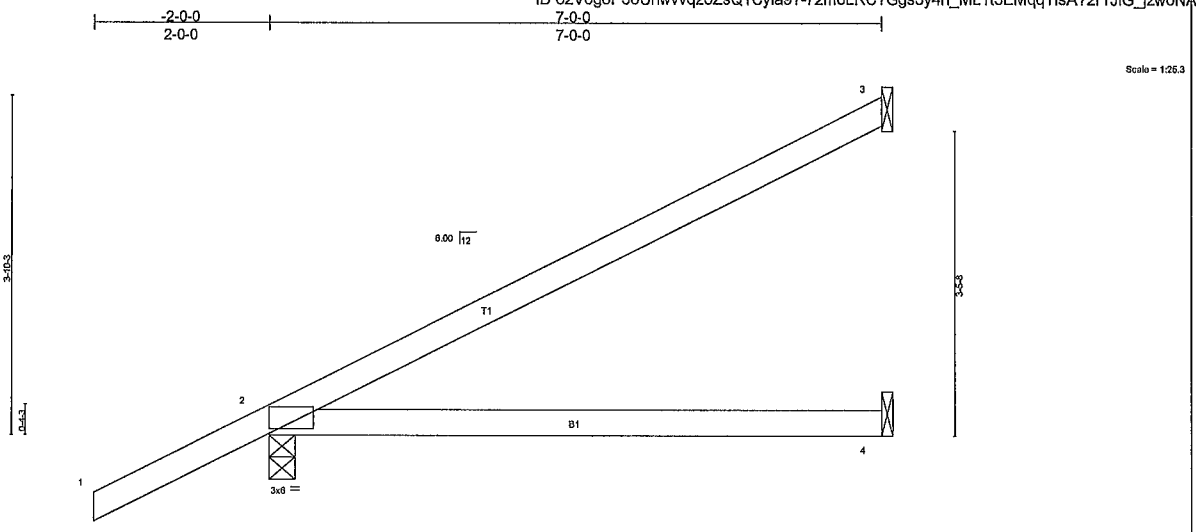


Plate Offsets (X,Y). [2:0-6-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	0.24	4-7	>346	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	0.21	4-7	>401	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 20%

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

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

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

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

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

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl. GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1 60 plate grip DOL=1 60
2) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No 2 crushing capacity of 565 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 141 lb uplift at joint 2 and 48 lb uplift at joint 4.
6) 'Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P E. License No 34869 Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

January 10,2014

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

Julius Lee PE
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.	I7699779
545372	EJ03	Jack-Partial Truss	3	1	Job Reference (optional)	

Builders FirstSource Lake City, FL 32055

7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:33 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-3QtYm7EGoH6nBOrNUm3L8fREnHVWevY8VdEN3czwoN8

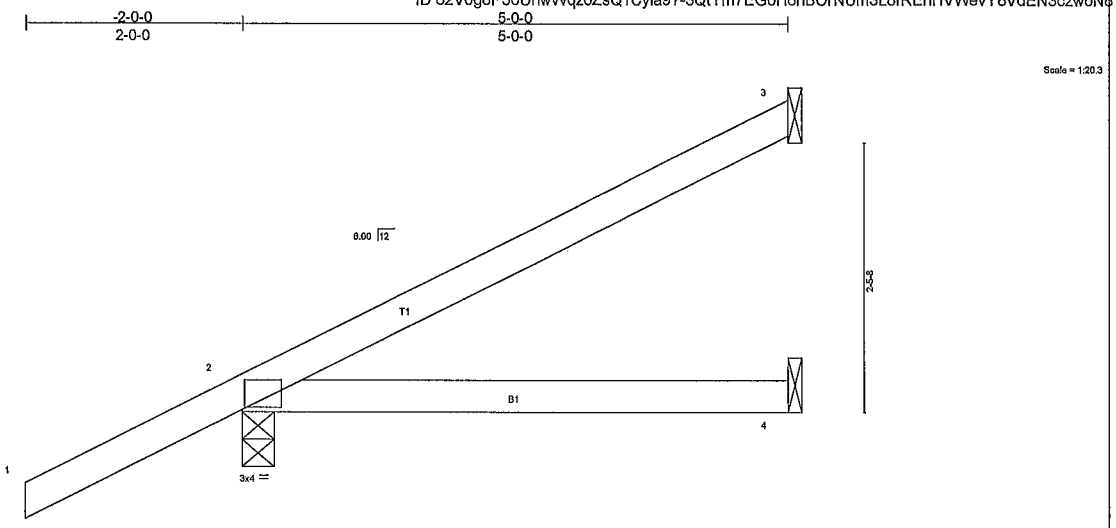


Plate Offsets (X,Y). [2:0-4-4,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0 13	Vert(TL)	-0.03	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0 00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

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

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

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

REACTIONS (lb/size) 3=79/Mechanical, 2=253/0-3-8 (min. 0-1-8) 4=23/Mechanical
Max Horz 2=162(LC 12)
Max Uplift3=-93(LC 12) 2=-147(LC 12)
Max Grav 3=97(LC 2) 2=304(LC 2) 4=56(LC 3)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-416/105
BOT CHORD 2-4=-352/610

NOTES (7-9)
1) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpi=0 18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1 60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 3 and 147 lb uplift at joint 2.
6) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee PE. Florida P E License No 34869: Address. 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

January 10,2014

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

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

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	HJ01	Diagonal Hip Girder	4	1	I7699780 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 11=36(F=18, B=18) 12=4(F=2, B=2) 13=-70(F=-35, B=-35) 14=31(F=15, B=15) 15=-2(F=-1, B=-1) 16=-26(F=-13, B=-13)

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

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.	I7699782
545372	T01	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:37 2014 Page 1

ID 62V0g8P30Uhwvvqzo ZsQ1Cyla9?-xB73cUHmrWdCg?88jc8HlVcs9uhZagmjQFCbCNzwoN4

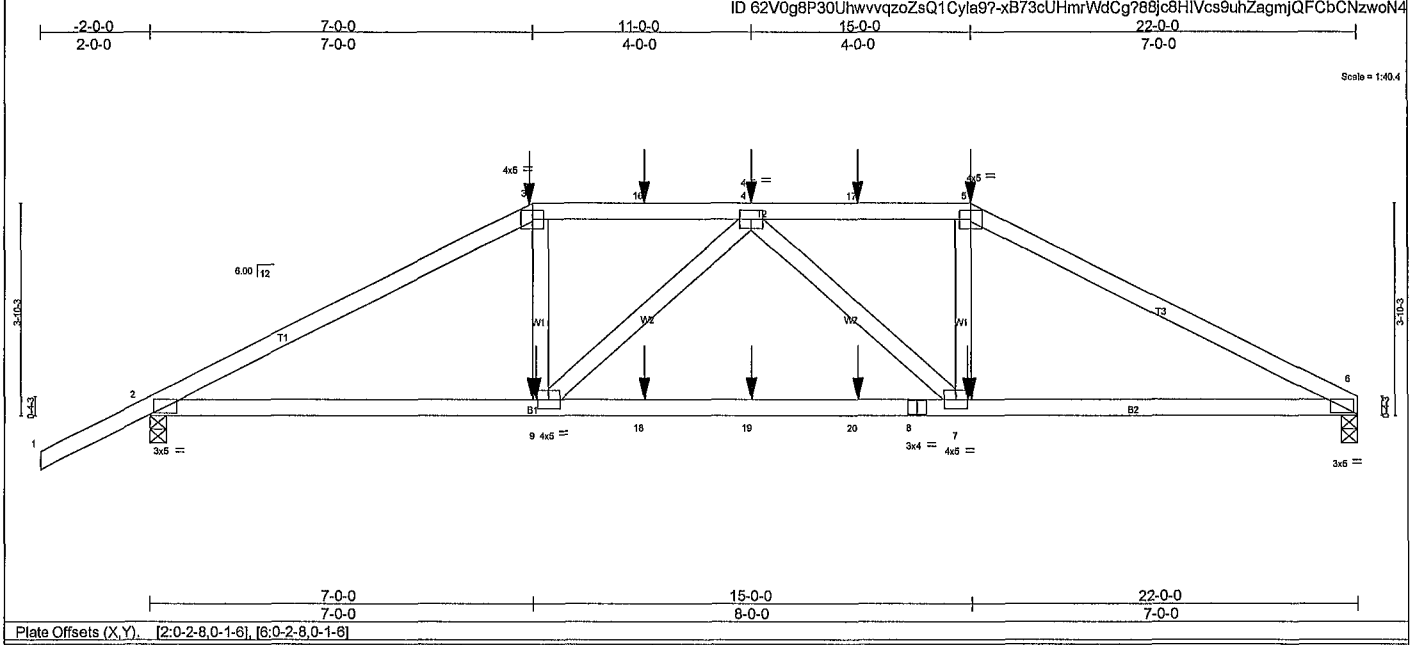


Plate Offsets (X,Y): [2:0-2-8,0-1-6], [6:0-2-8,0-1-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	0.34	7-9	>769	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.41	7-9	>644	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(TL)	0.08	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 96 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-3-8 oc bracing

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

REACTIONS (lb/size) 6=1057/0-3-8 (min. 0-1-8) 2=1121/0-3-8 (min. 0-1-9)
Max Horz 2=71(LC 8)
Max Uplift6=-809(LC 9) 2=-812(LC 8)
Max Grav 6=1251(LC 2) 2=1330(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2230/1568 3-16=-1936/1458 4-16=-1936/1458 4-17=-2001/1527, 5-17=-2001/1527
5-6=-2304/1648
BOT CHORD 2-9=-1370/1912, 9-18=-1555/2190, 18-19=-1555/2190, 19-20=-1555/2190, 8-20=-1555/2190
7-8=-1555/2190, 6-7=-1421/1979
WEBS 3-9=-552/635, 4-9=-422/272, 4-7=-319/155, 5-7=-473/600

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); 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 809 lb uplift at joint 6 and 812 lb uplift at joint 2
8) 'Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 92 lb up at 7-0-0 85 lb down and 92 lb up at 9-0-12 85 lb down and 92 lb up at 11-0-0 and 85 lb down and 92 lb up at 12-11-4, and 212 lb down and 232 lb up at 15-0-0 on top chord and 243 lb down and 331 lb up at 7-0-0, 49 lb down and 58 lb up at 9-0-12 49 lb down and 58 lb up at 11-0-0 and 49 lb down and 58 lb up at 12-11-4, and 243 lb down and 331 lb up at 14-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer: Julius Lee, PE: Florida P E License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25 Plate Increase=1.25

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

Continued on page 2

January 10,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

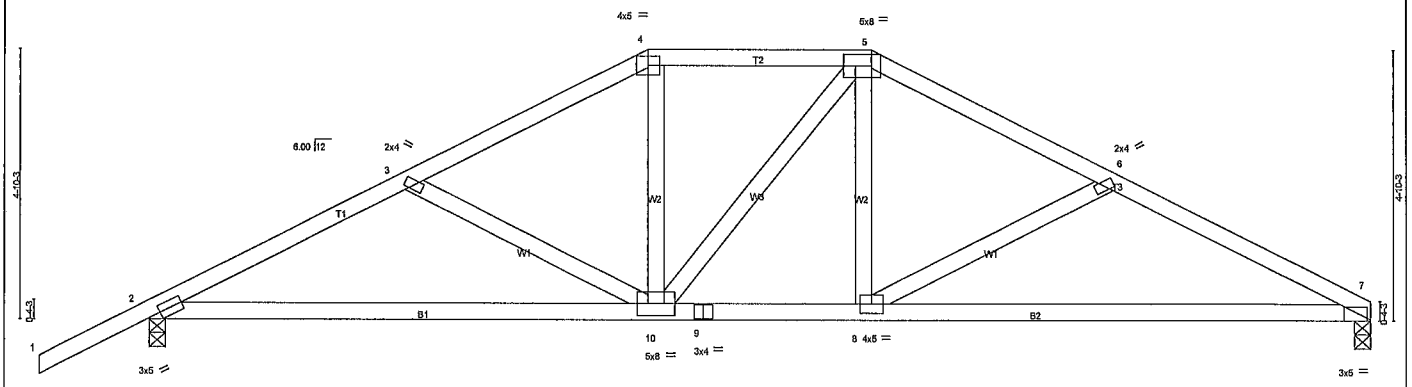
Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	T02	Hip Truss	1	1	I7699783
					Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:39 2014 Page 1

ID:62V0g8P30UhwvvqzoZsQ1Cyla97-uaEp1AI0N7twvJIXq0AIOwhGGISh2bi0tYhhGFzwoN2

-2-0-0	4-9-5	9-0-0	13-0-0	17-2-11	22-0-0
2-0-0	4-9-5	4-2-11	4-0-0	4-2-11	4-9-5

Scale = 1:39.9



9-0-0	13-0-0	22-0-0
9-0-0	4-0-0	9-0-0

Plate Offsets (X,Y). [2:0-2-10,0-1-8], [5:0-6-0,0-2-8], [7:0-2-8,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	0.32	Vert(LL)	-0.12	8-13	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.23	8-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 108 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-12 oc bracing

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

REACTIONS (lb/size) 7=593/0-3-8 (min. 0-1-8) 2=683/0-3-8 (min. 0-1-8)
Max Horz 2=83(LC 16)
Max Uplift 7=-161(LC 13) 2=-199(LC 12)
Max Grav 7=702(LC 2), 2=814(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1253/759 3-4=-996/609 4-5=-869/595, 5-6=-997/611 6-7=-1258/766
BOT CHORD 2-10=-602/1068, 9-10=-354/807 8-9=-354/807 7 8=-610/1074
WEBS 3-10=-302/284, 6-8=-308/291

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 161 lb uplift at joint 7 and 199 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee PE: Florida P E License No. 34869 Address. 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard

January 10,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.	I7699785
545372	T04	Half Hip Truss	1	1	Job Reference (optional)	

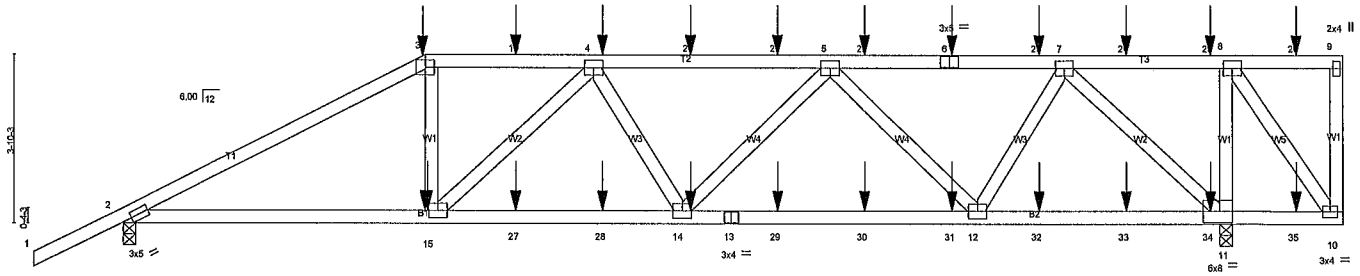
Builders FirstSource Lake City FL 32055

7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:42 2014 Page 1

ID:62V0g8P30UhwvvqzoZsQ1Cyla9?-I9wyfCLvg2FVmm16V9kS?YJiFvQ6EkVTZWwMtazwoN?

-2-0-0	7-0-0	10-10-5	16-3-1	21-7-12	25-4-4	28-0-0
2-0-0	7-0-0	3-10-5	5-4-12	5-4-11	3-8-8	2-7-12

Scale = 1:50.8



7-0-0	12-10-7	19-7-10	25-4-4	28-0-0
7-0-0	5-10-7	6-9-2	5-8-10	2-7 12

Plate Offsets (X,Y). [2.0-2-10,0-1-8], [11.0-3-8,0-3-0]

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.66	Vert(LL)	0.24	14-15	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 80	Vert(TL)	-0.30	12-14	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 98	Horz(TL)	0.11	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 148 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 4-3-1 oc bracing.

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

REACTIONS (lb/size) 2=1241/0-3-8 (min. 0-1-12) 11=1538/0-3-8 (min. 0-2-2)
Max Horz 2=146(LC 8)
Max Uplift 2=-849(LC 8) 11=-1209(LC 5)
Max Grav 2=1473(LC 2) 11=1821(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2516/1659, 3-19=-2197/1528, 4-19=-2197/1528, 4-20=-2622/1792 20-21=-2622/1792, 5-21=-2622/1792 5-22=-1774/1195, 6-22=-1774/1195, 6-23=-1774/1195 7-23=-1774/1195
BOT CHORD 2 15=-1505/2167 15-27=-1797/2639 27-28=-1797/2639 14-28=-1797/2639, 13-14=-1643/2458, 13-29=-1643/2458, 29-30=-1643/2458, 30-31=-1643/2458, 12-31=-1643/2458, 12-32=-856/1292, 32-33=-856/1292 33-34=-856/1292, 11-34=-856/1292
WEBS 3-15=-597/779 4-15=-682/403, 5-14=-229/336, 5-12=-992/650, 7-12=-690/980, 7 11=-1876/1238, 8-11=-410/242

NOTES (12-14)
1) Unbalanced roof live loads have been considered for this design
2) Wind. ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf BCDL=3.0psf h=18ft; Cat. II Exp C Encl GCpi=0.18 MWFRS (envelope) Lumber DOL=1.60 plate grip DOL=1 60
3) Provide adequate drainage to prevent water ponding
4) All plates are 4x5 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 849 lb uplift at joint 2 and 1209 lb uplift at joint 11
9) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 92 lb up at 7-0-0, 85 lb down and 92 lb up at 9-0-12, 85 lb down and 92 lb up at 11-0-12, 85 lb down and 92 lb up at 13-0-12 85 lb down and 92 lb up at 15-0-12, 85 lb down and 92 lb up at 17-0-12 85 lb down and 92 lb up at 19-0-12, 85 lb down and 92 lb up at 21-0-12, 85 lb down and 92 lb up at 23-0-12 and 85 lb down and 92 lb up at 25-0-0, and 85 lb down and 92 lb up at 26-11-4 on top chord and 243 lb down and 331 lb up at 7-0-0, 49 lb down and 58 lb up at 9-0-12, 49 lb down and 58 lb up at 11-0-12, 49 lb down and 58 lb up at 13-0-12, 49 lb down and 58 lb up at 15-0-12 49 lb down and 58 lb up at 17-0-12, 49 lb down and 58 lb up at 19-0-12 49 lb down and 58 lb up at 21-0-12, 49 lb down and 58 lb up at 23-0-12 and 49 lb down and 58 lb up at 25-0-0, and 49 lb down and 58 lb up at 26-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

Continued on page 2

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

January 10,2014

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	T05	Half Hip Truss	1	1	I7699786
					Job Reference (optional)

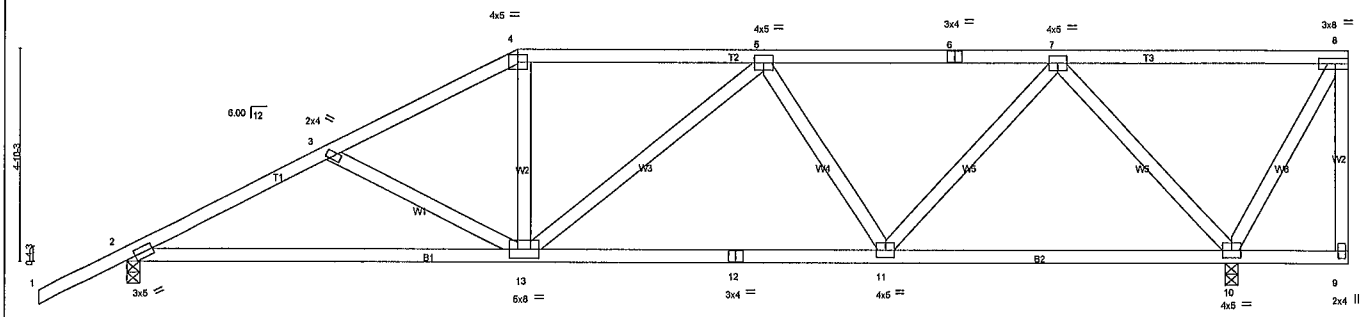
Builders FirstSource Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09.39.43 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-mLUKsXLXRMNMOwbl3sFhYmsw8JqgzFKcoAfvP1zwoN

-2-0-0	4-9-5	9-0-0	14-7-9	21-4-8	28-0-0
2-0-0	4-9-5	4-2-11	5-7-9	6-6-15	6-7-8

Scale = 1:50.8



9-0-0	17-4-11	25-4-4	28-0-0
9-0-0	8-4-11	7-11-9	2-7-12

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1 25	TC	0.46	Vert(LL)	-0 10	13-16	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1 25	BC	0.52	Vert(TL)	-0 19	13-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 75	Horz(TL)	0.05	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight. 151 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 4-9-13 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-2-15 oc bracing

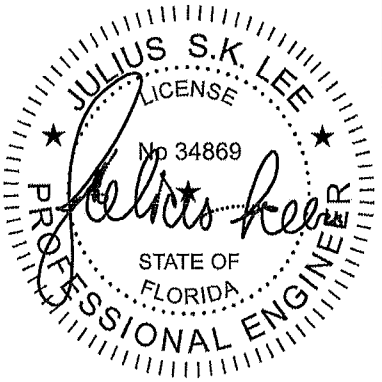
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=773/0-3-8 (min. 0-1 8) 10=819/0-3-8 (min 0-1-8)
Max Horz 2=180(LC 12)
Max Uplift2=-205(LC 12) 10=-292(LC 9)
Max Grav 2=920(LC 2) 10=971(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1468/817 3-4=-1218/671 4-5=-1072/652, 5-6=-952/539, 6-7=-952/539
BOT CHORD 2-13=-895/1321 12-13=-684/1135, 11 12=-684/1135 10-11=-374/617
WEBS 3-13=-290/277, 4-13=-101/291 5-11=-352/279, 7-11=-251/509 7-10=-1040/650

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 205 lb uplift at joint 2 and 292 lb uplift at joint 10.
8) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
10) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer· Julius Lee, PE: Florida P E. License No. 34869· Address· 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard



January 10,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

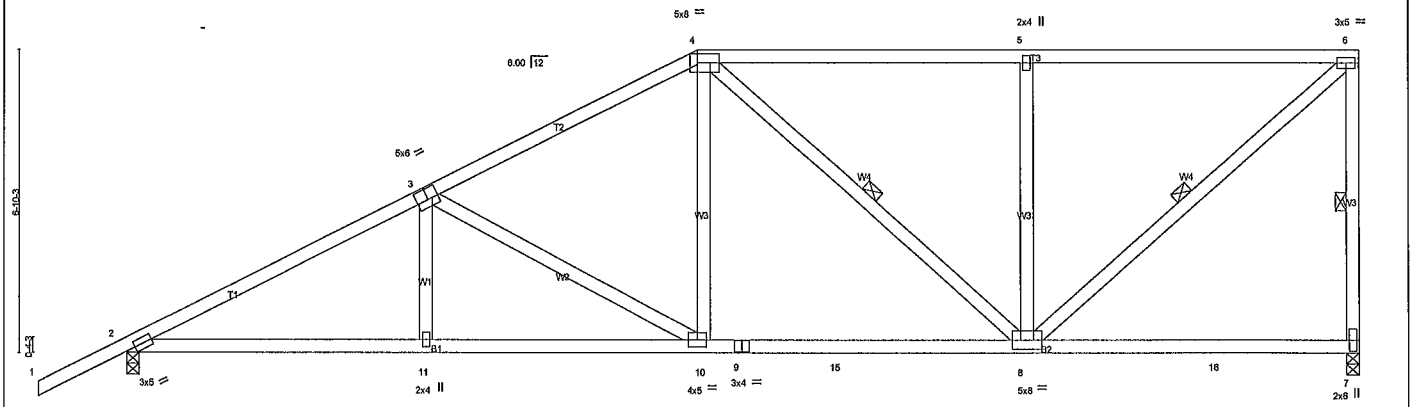
Job	Truss	Truss Type	Qty	Ply	RONALD CLARK - REED RES.
545372	T07	Half Hip Truss	1	1	I7699788 Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:46 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-AwATVZOPkHlwFOKtk?oOAOUOaWsSAgH2U8uZ?LzwoMx

-2-0-0	6-9-14	13-0-0	20-6-0	28-0-0
2-0-0	6-9-14	6-2-2	7-6-0	7-6-0

Scale = 1:50.4



6-9-14	13-0-0	20-6-0	28-0-0
6-9-14	6-2-2	7-6-0	7-6-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	0.10	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.17	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 160 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-0-4 oc bracing
WEBS 1 Row at midpt 6-7 4-8, 6-8

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

REACTIONS (lb/size) 7=878/0-3-8 (min. 0-1-8) 2=897/0-3-8 (min. 0-1-8)
Max Horz 2=248(LC 12)
Max Uplift 7=-259(LC 9) 2=-236(LC 12)
Max Grav 7=881(LC 2) 2=1009(LC 2)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1697/813 3-4=-1272/634, 4-5=-892/490 5-6=-892/490 6-7=-948/555
BOT CHORD 2-11=-970/1530, 10-11=-970/1530 9-10=-636/1106, 9-15=-636/1106, 8-15=-636/1106
WEBS 3-10=-492/384 4-10=-146/384, 4-8=-284/195, 5-8=-472/354, 6-8=-646/1172

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 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 259 lb uplift at joint 7 and 236 lb uplift at joint 2
8) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P E License No 34869; Address 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard

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

January 10,2014

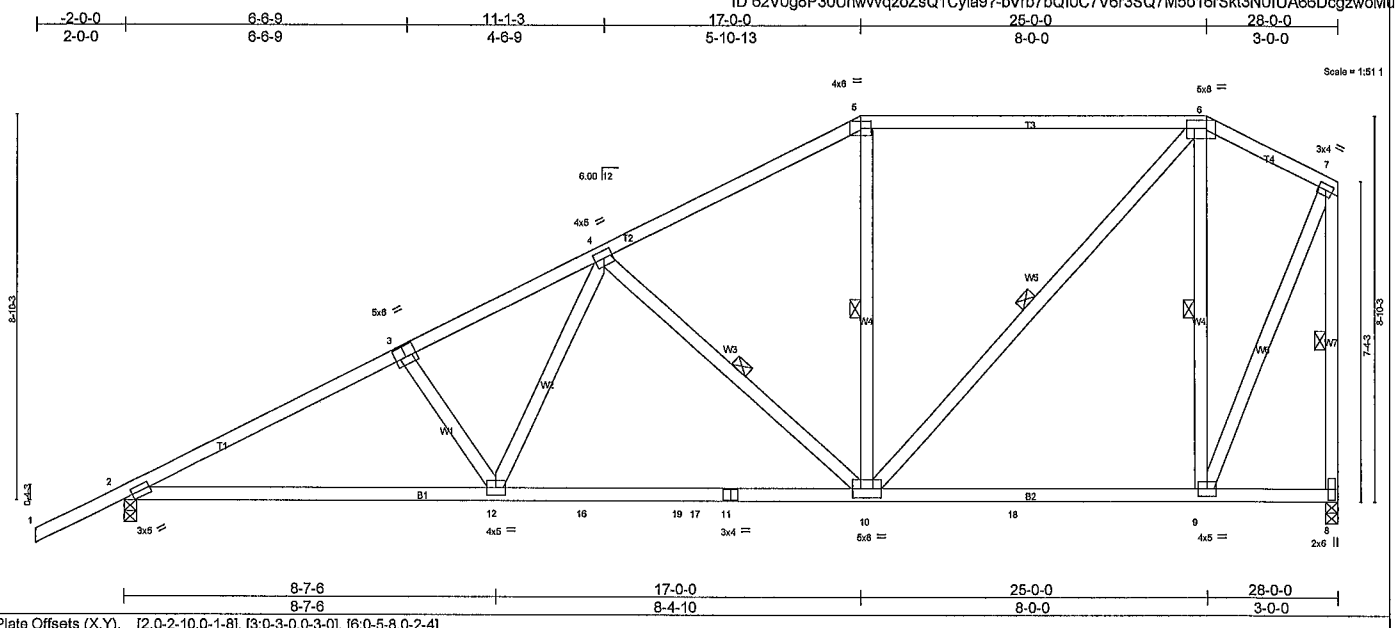
WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation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

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	T09	Hip Truss	1	1	I7699790
					Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:49 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-bVrb7bQI0C7V6r3SQ7M5o16rSkt3N0IUA66DcgzwoMu



8-7-6 / 8-7-6 — 17-0-0 / 8-4-10 — 25-0-0 / 8-0-0 — 28-0-0 / 3-0-0

Plate Offsets (X,Y). [2,0-2-10,0-1-8], [3:0-3-0,0-3-0], [6:0-5-8,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.85	Vert(LL)	-0.13	10-12	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0 24	10-12	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.53	Horz(TL)	0.04	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 179 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 except end verticals
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.
WEBS 1 Row at midpt 4-10 5-10, 6-10 6-9, 7-8

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

REACTIONS (lb/size) 2=910/0-3-8 (min. 0-1-8) 8=875/0-3-8 (min. 0-1-8)
Max Horz 2=284(LC 12)
Max Uplift2=-250(LC 12), 8=-194(LC 12)
Max Grav 2=1010(LC 2) 8=881(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1732/813 3-4=-1584/800, 4-5=-986/526 5-6=-851/537 6-7=-419/235, 7-8=-1083/565
BOT CHORD 2-12=-999/1566, 12-16=-778/1257 16-19=-778/1257 17 19=-778/1257 11 17=-778/1257
10-11=-778/1257, 10-18=-174/353, 9-18=-174/353
WEBS 3-12=-276/265 4-12=-188/392, 4-10=-580/432, 6-10=-423/707 6-9=-686/467 7-9=-464/937

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 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 250 lb uplift at joint 2 and 194 lb uplift at joint 8,
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer Julius Lee PE. Florida P E. License No. 34869: Address 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

January 10,2014

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

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK - REED RES.	I7699792
545372	T11	Common Truss	1	1	Job Reference (optional)	

Builders FirstSource Lake City FL 32055

7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:52 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla97-?4XkIcSAJ7W4zJn15FvoPfkQMxqlaKFxs4LuD?zwoM

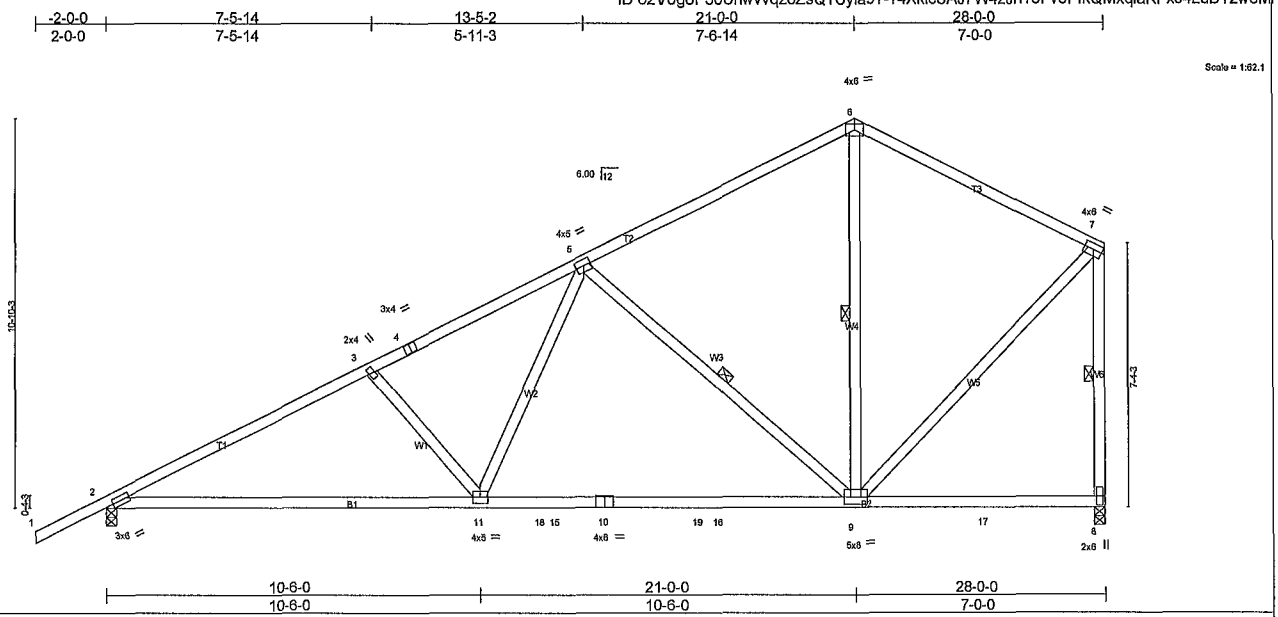


Plate Offsets (X,Y). [2:0-2-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plates Increase	1.25	TC	0.62	Vert(LL)	-0.37	9-11	>902	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0 79	Vert(TL)	-0 56	9-11	>595	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 70	Horz(TL)	0 04	8	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 164 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 5-11-0 oc bracing
WEBS 1 Row at midpt 5-9, 6-9 7-8

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

REACTIONS (lb/size) 2=918/0-3-8 (min. 0-1-8) 8=900/0-3-8 (min. 0-1-8)
Max Horz 2=309(LC 12)
Max Uplift 2=-258(LC 12), 8=-236(LC 12)
Max Grav 2=1012(LC 2) 8=900(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1724/807 3-4=-1511/735, 4-5=-1404/755, 5-6=-715/420, 6-7=-699/418 7-8=-1021/599
BOT CHORD 2-11=-1005/1549 11 18=-689/1130, 15-18=-689/1130, 10-15=-689/1130, 10-19=-689/1130, 16-19=-689/1130, 9-16=-689/1130
WEBS 3-11=-341/327, 5-11=-207/506, 5-9=-781/554 7-9=-380/765

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl GCpi=0 18, MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 2 and 236 lb uplift at joint 8.
7) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P E. License No 34869 Address. 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard

January 10,2014

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	T12	Hip Truss	1	1	I7699793 Job Reference (optional)

Builders FirstSource, Lake City FL 32055 7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:39:55 2014 Page 2

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-QfCtOeV3c2ufqmWcmOTV1HMsi8xlnfrNZ2ZYpKzwoMc

NOTES (13-16)

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 92 lb up at 7-0-0, 85 lb down and 92 lb up at 9-0-12, 85 lb down and 92 lb up at 11-0-12, 85 lb down and 92 lb up at 13-0-12, 85 lb down and 92 lb up at 15-0-12 85 lb down and 92 lb up at 17-0-12, 85 lb down and 92 lb up at 19-0-12 85 lb down and 92 lb up at 21-0-12, 85 lb down and 92 lb up at 23-0-12 85 lb down and 92 lb up at 25-0-12 85 lb down and 92 lb up at 27-0-12, 85 lb down and 92 lb up at 29-0-12, 85 lb down and 92 lb up at 31-0-12 and 85 lb down and 92 lb up at 33-0-12, and 125 lb down and 103 lb up at 35-0-0 on top chord and 243 lb down and 331 lb up at 7-0-0, 49 lb down and 58 lb up at 9-0-12, 49 lb down and 58 lb up at 11-0-12 49 lb down and 58 lb up at 13-0-12 49 lb down and 58 lb up at 15-0-12, 49 lb down and 58 lb up at 17-0-12, 49 lb down and 58 lb up at 19-0-12 49 lb down and 58 lb up at 21-0-12, 49 lb down and 58 lb up at 23-0-12, 49 lb down and 58 lb up at 25-0-12, 49 lb down and 58 lb up at 27-0-12, 49 lb down and 58 lb up at 29-0-12, 49 lb down and 58 lb up at 31 0-12, and 49 lb down and 58 lb up at 33-0-12 and 49 lb down at 35-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
14) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
15) Truss Design Engineer: Julius Lee, PE: Florida P E. License No. 34869: Address: 1109 Coastal Bay Blvd Boynton Beach, FL 33435
16) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1 25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-44, 3-9=-44, 9-10=-44, 2-11=-10
   Concentrated Loads (lb)
   Vert. 3=-69(B) 6=-69(B) 9=-69(B) 21=-210(B) 5=-69(B) 13=-22(B) 8=-69(B) 12=-22(B) 14=-22(B) 24=-69(B) 25=-69(B) 26=-69(B) 27=-69(B) 28=-69(B) 29=-69(B) 30=-69(B) 31=-69(B) 32=-69(B) 33=-69(B) 34=-22(B) 35=-22(B) 36=-22(B) 37=-22(B) 38=-22(B) 39=-22(B) 40=-22(B) 41=-22(B) 42=-22(B) 43=-22(B) 44=-22(B)

Julius Lee PE,
1109 Coastal Bay
Boynton Beach FL 33435

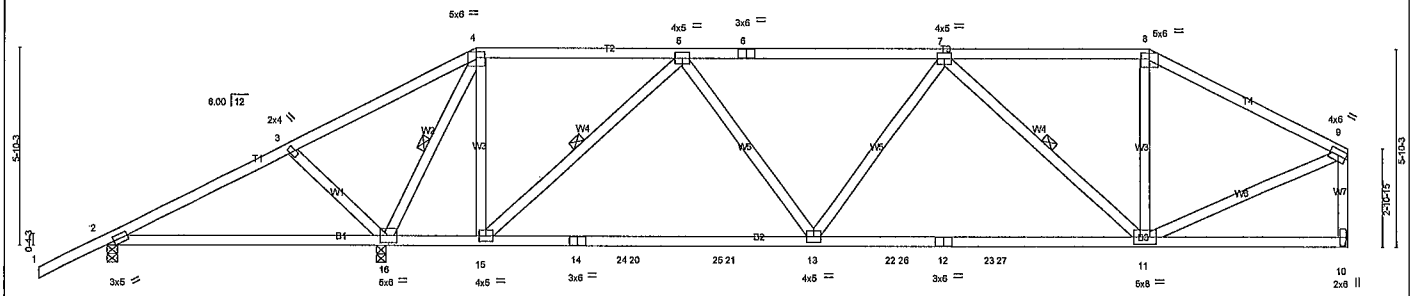
Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	T14	Hip Truss	1	1	I7699795
					Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7.350 s Sep 27 2012 MiTek Industries Inc. Fri Jan 10 09:39:58 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-qEu?0gXxvzGDhEFBRW0Cfw_TUMuM_88pF0oCQfzwoM

-2-0-0	5-6-1	11-0-0	17 1-2	24-10-14	31-0-0	36-10-8
2-0-0	5-6-1	5-5-15	6-1-2	7-9-12	6-1-2	5-10-8

Scale = 1:65.9



8-1 12	11-0-0	21-0-0	31-0-0	36-10-8
8-1-12	2-10-4	10-0-0	10-0-0	5-10-8

Plate Offsets (X,Y): [2.0-2-10,0-1-8], [4.0-3-0,0-2-0], [8:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0 16	16-19	>614	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0.33	13-15	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.03	10	n/a	n/a		
BCDL	5 0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 202 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 4-10-13 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-16, 5-15, 7 11

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

REACTIONS (lb/size) 2=140/0-3-8 (min. 0-1-8) 16=1314/0-3-8 (min 0-1-14) 10=788/Mechanical
Max Horz 2=152(LC 12)
Max Uplift 2=-83(LC 9) 16=-466(LC 9) 10=-204(LC 8)
Max Grav 2=202(LC 27), 16=1415(LC 2) 10=853(LC 28)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-403/571 3-4=-247/563, 5-6=-1174/602, 6-7=-1174/602 7-8=-856/505, 8-9=-988/490, 9-10=-937/489
BOT CHORD 2-16=-855/532, 14-15=-398/933, 14-24=-398/933, 20-24=-398/933, 20-25=-398/933 21-25=-398/933, 13-21=-398/933, 13-22=-538/1181 22-26=-538/1181 12-26=-538/1181 12-23=-538/1181 23-27=-538/1181 11-27=-538/1181
WEBS 3-16=-349/348, 4-16=-1481/649 4-15=-261/816 5-15=-1021/555, 5-13=-86/349, 7-11=-499/256, 9-11=-350/855

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone; porch 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 83 lb uplift at joint 2, 466 lb uplift at joint 16 and 204 lb uplift at joint 10.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee PE: Florida P E. License No. 34869: Address. 1109 Coastal Bay Blvd Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

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

January 10,2014

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

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.	I7699797
545372	T16	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:40:01 2014 Page 1

ID:62V0g8P30UhwvvqzoZsQ1Cyla9?-Epa8ehZqCueoYh_l7eavHYczfZ0RBQvGx_0s1_zwoMi

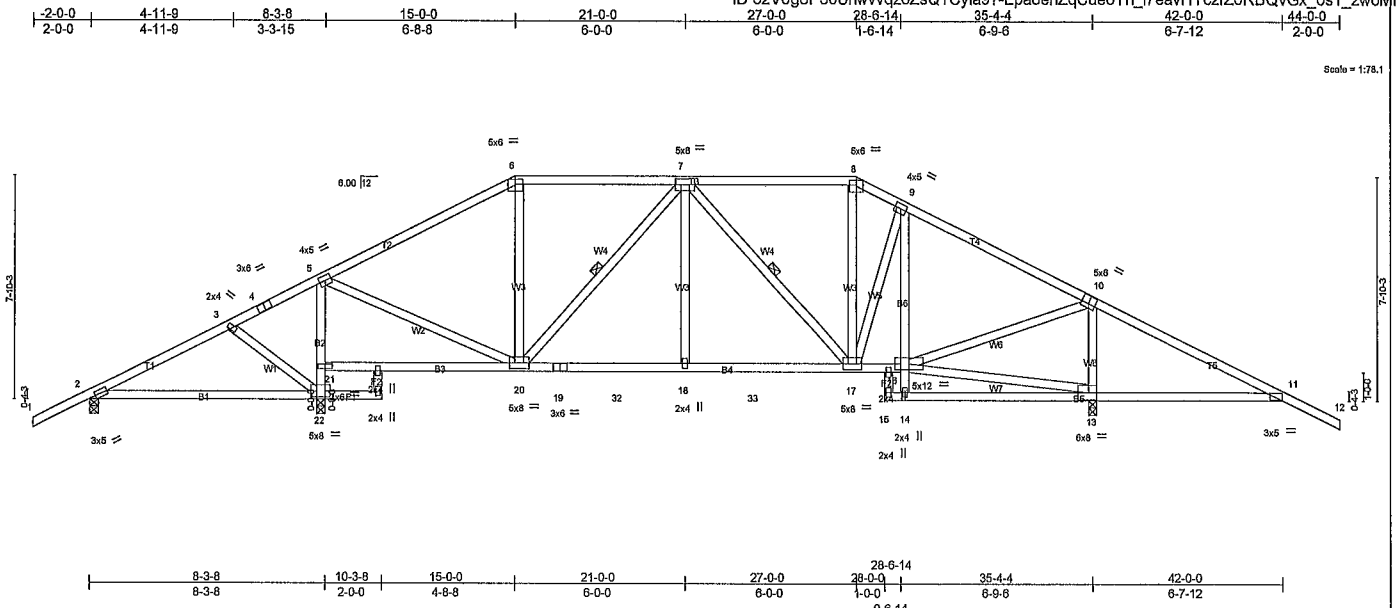


Plate Offsets (X,Y). [2,0-2-10,0-1-8], [6:0-3-0,0-2-0], [8:0-3-0,0-2-0], [10:0-3-0,0-3-4], [11,0-5-4,0-0-4], [13,0-3-8,0-3-0], [22,0-2-8,0-2-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL In (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.58	Vert(LL) -0 08 22-28 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0 36	Vert(TL) -0 15 22-28 >663 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0.61	Horz(TL) 0.02 13 n/a n/a	
BCDL 5 0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 261 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2,B6,F1 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 5-6-0 oc bracing 21-22 10-0-0 oc bracing 14-16
WEBS 1 Row at midpt 7-20 7-17

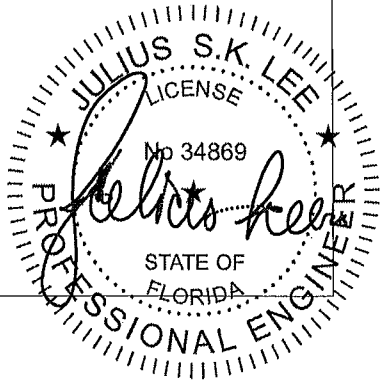
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=306/0-3-8 (min. 0-1-8) 13=1320/0-3-8 (min. 0-1-15) 22=970/0-3-8 (min. 0-1-8)
Max Horz 2=-115(LC 10)
Max Uplift2=-106(LC 13), 13=-381(LC 13) 22=-243(LC 12)
Max Grav 2=370(LC 27), 13=1487(LC 2) 22=1058(LC 27)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-497/300 5-6=-897/531 6-7=-757/546, 7-8=-716/465, 8-9=-828/518, 9-10=-782/393 10-11=-625/770
BOT CHORD 2-22=-67/618, 21-22=-1033/466, 5-21=-998/482 19-20=-164/888 19-32=-164/888, 18-32=-164/888, 18-33=-164/888, 17-33=-164/888, 16-17=-33/567 9-16=-480/335, 11-13=-660/726
WEBS 5-20=-128/712, 7-20=-341/105, 7-17=-418/258, 13-16=-609/631 10-16=-654/1224, 10-13=-1439/945

NOTES (10-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl , GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
7) Bearing at joint(s) 22 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 106 lb uplift at joint 2, 381 lb uplift at joint 13 and 243 lb uplift at joint 22
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
11) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
12) Truss Design Engineer: Julius Lee PE: Florida P E. License No. 34869 Address 1109 Coastal Bay Blvd Boynton Beach FL 33435

LOAD CASE(S) Standard



January 10,2014

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

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.
545372	T18	Hip Truss	1	1	I7699799
					Job Reference (optional)

Builders FirstSource, Lake City FL 32055 — 7 350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:40:06 2014 Page 1

ID:62V0g8P30UhwvvqzoZsQ1Cyla9?-bnN1hPdy0QG5eSsjvB95_cJqjalJsb7?4FkdiBzwoMc

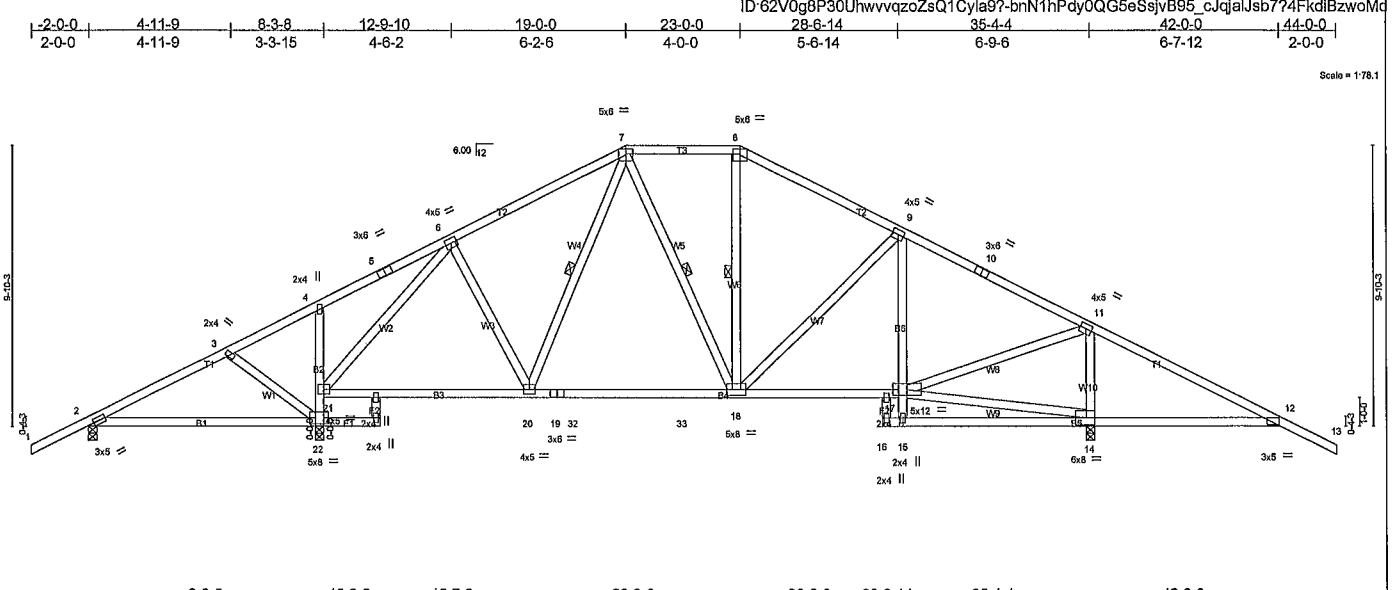


Plate Offsets (X,Y). [2:0-2-10,0-1-8], [7:0-3-0,0-2-0], [8:0-3-0,0-2-0], [12,0-5-4,0-0-4], [14,0-3-8,0-3-0], [22,0-2-8,0-2-8]

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 56	Vert(LL) 0 19 22-28 >510 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0.44	Vert(TL) 0 15 22-28 >641 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(TL) 0 03 14 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 259 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B6 F1 2x4 SP No 3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-4 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing Except.
6-0-0 oc bracing 14-15,14-31
5-6-0 oc bracing 21-22
10-0-0 oc bracing 15-17
WEBS 1 Row at midpt 7-20, 7-18, 8-18

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

REACTIONS (lb/size) 2=313/0-3-8 (min 0-1-8), 14=1299/0-3-8 (min. 0-1-14) 22=953/0-3-8 (min. 0-1-8)
Max Horz 2=-142(LC 10)
Max Uplift2=-218(LC 8) 14=-406(LC 13) 22=-286(LC 12)
Max Grav 2=373(LC 27) 14=1488(LC 2), 22=1054(LC 2)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-494/752, 3-4=-58/317 4-5=-75/384 5-6=-48/395, 6-7=-904/607 7-8=-734/498
8-9=-865/493, 9-10=-718/264, 10-11=-793/242, 11 12=-957/759
BOT CHORD 2-22=-891/612, 21-22=-1018/357 20-21=-157/616, 19-20=-9/607, 19-32=-9/607 32-33=-9/607,
18-33=-9/607 17-18=0/588, 9-17=-459/492 12-14=-616/1018
WEBS 6-21=-1026/248, 6-20=0/256, 14-17=-626/931 11-17=-867/1226, 11 14=-1400/1102

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, cantilever right exposed porch 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) Bearing at joint(s) 22 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 218 lb uplift at joint 2, 406 lb uplift at joint 14 and 286 lb uplift at joint 22.
9) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
11) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
12) Truss Design Engineer: Julius Lee, PE: Florida P E. License No. 34869 Address. 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard

January 10,2014

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

Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.	I7699801
545372	T20	Special Truss	1	1	Job Reference (optional)	

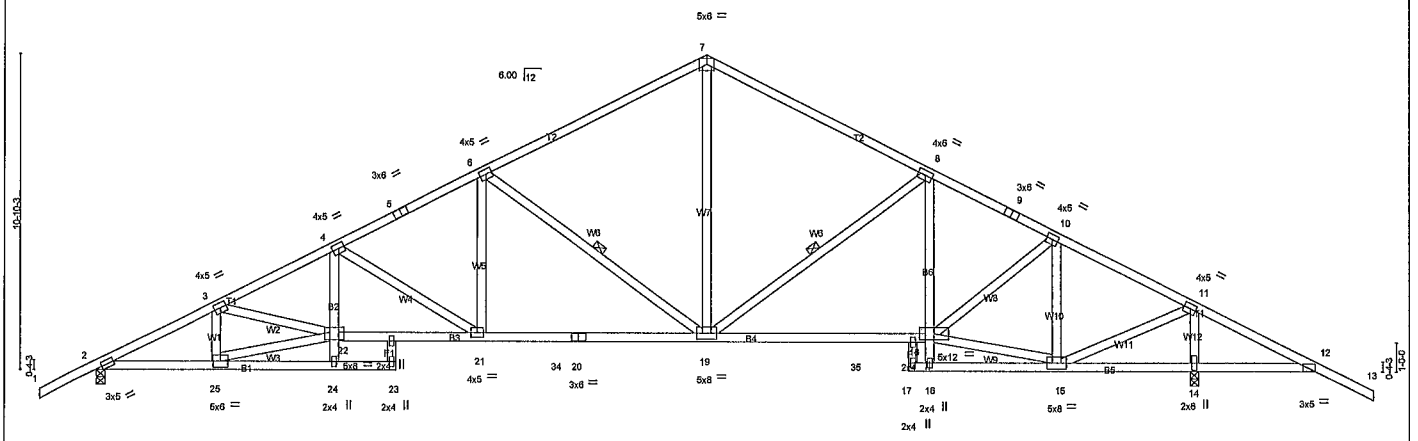
Builders FirstSource Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:40:10 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-TYcXXmgT4fnX74AU81E18SUTJB?2oRca?tiqryzwoMZ

-2-0-0	4-0-13	8-3-8	13-3-6	21-0-0	28-6-14	33-1-5	37-10-4	42-0-0	44-0-0
2-0-0	4-0-13	4-2-12	4-11-14	7-8-10	7-6-14	4-6-7	4-8-15	4-1-12	2-0-0

Scale = 1:76.5



4-0-13	8-3-8	10-3-8	13-3-6	21-0-0	28-0-0	28-6-14	33-1-5	37-10-4	42-0-0
4-0-13	4-2-12	2-0-0	2-11-14	7-8-10	7-0-0	0-6-14	4-6-7	4-8-15	4-1-12

Plate Offsets (X,Y). [2:0-2-10,0-1-8], [22:0-5-12,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	0.26	23	>999	240	MT20	244/190
TCDL	7 0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0 40	23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(TL)	0 16	14	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 263 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B6 2x4 SP No.3
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 or 5-5-13 oc bracing Except.
10-0-0 oc bracing. 22-24 16-18
WEBS 1 Row at midpt 6-19 8-19

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

REACTIONS (lb/size) 2=1184/0-3-8 (min 0-1-12) 14=1463/0-3-8 (min 0-2-2)
Max Horz 2=156(LC 11)
Max Uplift 2=-329(LC 12) 14=-397(LC 13)
Max Grav 2=1316(LC 2), 14=1616(LC 2)

FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2512/1268, 3-4=-3100/1541 4-5=-2419/1241 5-6=-2328/1253, 6-7=-1626/917, 7-8=-1626/918, 8-9=-1822/938, 9-10=-1899/923, 10-11=-1298/569, 11 12=-710/565
BOT CHORD 2-25=-1009/2191, 4-22=-176/473, 21-22=-1171/2734, 21-34=-794/2069, 20-34=-794/2069 19-20=-794/2069 19-35=-518/1629, 18-35=-518/1629 14-15=-470/766, 12-14=-470/766
WEBS 3-25=-576/312, 22-25=-947/2079, 3-22=-160/540, 4-21=-778/440, 6-21=-185/537 6-19=-992/619, 7-19=-479/980 8-19=-446/277 15-18=-243/1083, 10-18=-283/635, 10-15=-895/516, 11-15=-1029/1652, 11-14=-1733/1189

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf BCDL=3.0psf h=18ft, Cat. II Exp C, Encl GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone, cantilever right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 2 and 397 lb uplift at joint 14.
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

January 10,2014

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

Julius Lee PE.
1109 Coastal Bay
Boynton Beach FL 33435

Job	Truss	Truss Type	Qty	Ply	RONALD CLARK REED RES.	I7699803
545372	T22	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Fri Jan 10 09:40:13 2014 Page 1

ID 62V0g8P30UhwvvqzoZsQ1Cyla9?-u7lg9ojLNa95_Xu3q9nkm455WP89?_J1irwVSHzwoMW

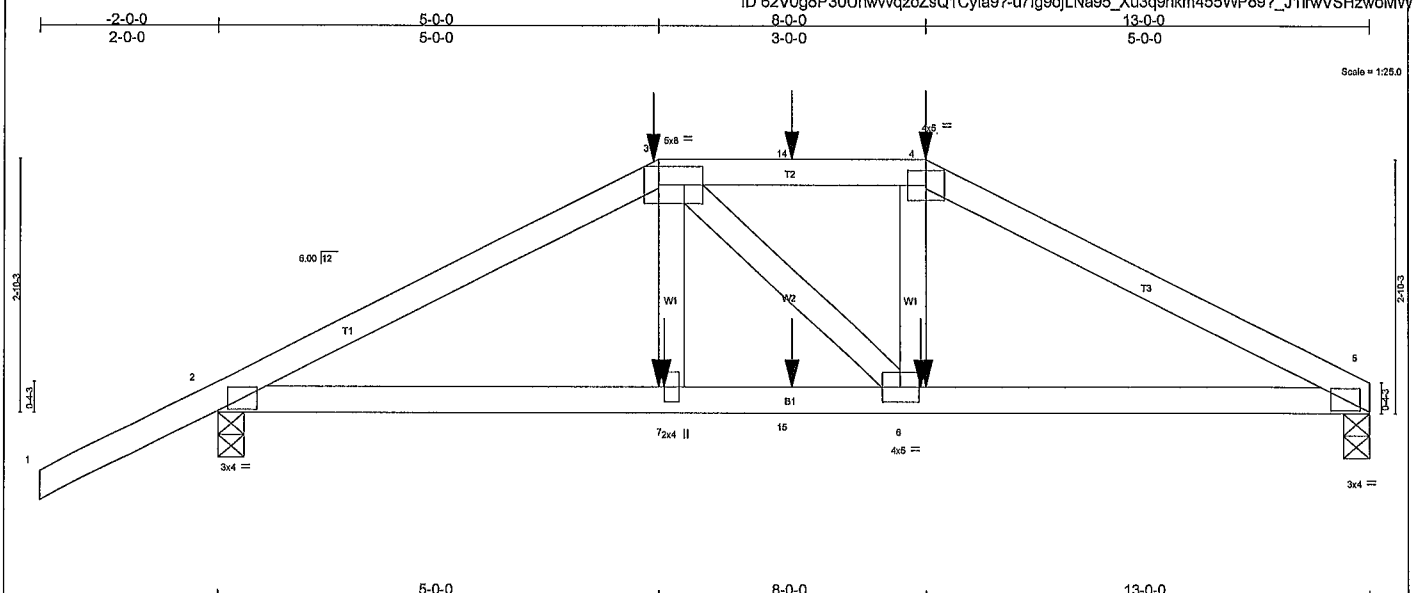


Plate Offsets (X,Y). [3:0-6-0,0-2-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.27	Vert(LL) 0 03 6-7 >999 240	MT20 244/190
TCDL 7 0	Lumber Increase 1.25	BC 0.24	Vert(TL) -0 04 6-7 >999 180	
BCLL 0 0 *	Rep Stress Incr NO	WB 0.07	Horz(TL) 0 02 5 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 56 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-3 oc bracing

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

REACTIONS (lb/size) 5=483/0-3-8 (min. 0-1 8) 2=561/0-3-8 (min. 0-1-8)
Max Horz 2=58(LC 12)
Max Uplift 5=-270(LC 9) 2=-297(LC 8)
Max Grav 5=572(LC 2) 2=667(LC 2)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-871/451 3-14=-770/454 4-14=-770/454 4-5=-918/486
BOT CHORD 2-7=-376/723, 7 15=-376/728 6-15=-376/728, 5-6=-395/788

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), 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 270 lb uplift at joint 5 and 297 lb uplift at joint 2.
8) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 99 lb up at 5-0-0 and 43 lb down and 99 lb up at 6-6-0, and 164 lb down and 202 lb up at 8-0-0 on top chord and 74 lb down and 23 lb up at 5-0-0, and 26 lb down at 6-6-0, and 74 lb down and 23 lb up at 7-11-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section loads applied to the face of the truss are noted as front (F) or back (B)
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
12) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer: Julius Lee PE: Florida P E License No. 34869: Address: 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25 Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44 3-4=-44, 4-5=-44, 8-11=-10
Concentrated Loads (lb)
Vert: 3=-35(B) 4=-101(B) 7=-35(B) 6=-35(B) 14=-35(B) 15=-13(B)

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

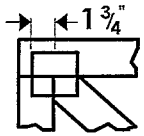
January 10,2014

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

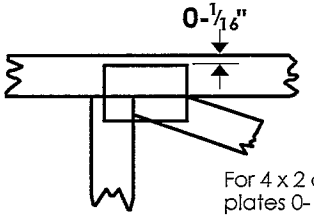
Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

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

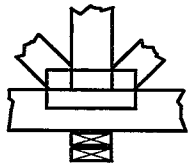
4 x 4

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

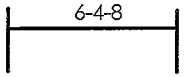


Indicates location where bearings (supports) occur Icons vary but reaction section indicates joint number where bearings occur.

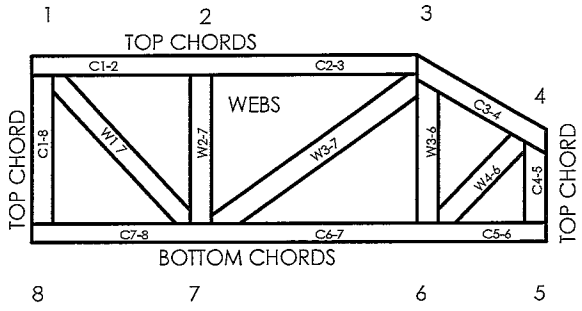
Industry Standards:

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, 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.

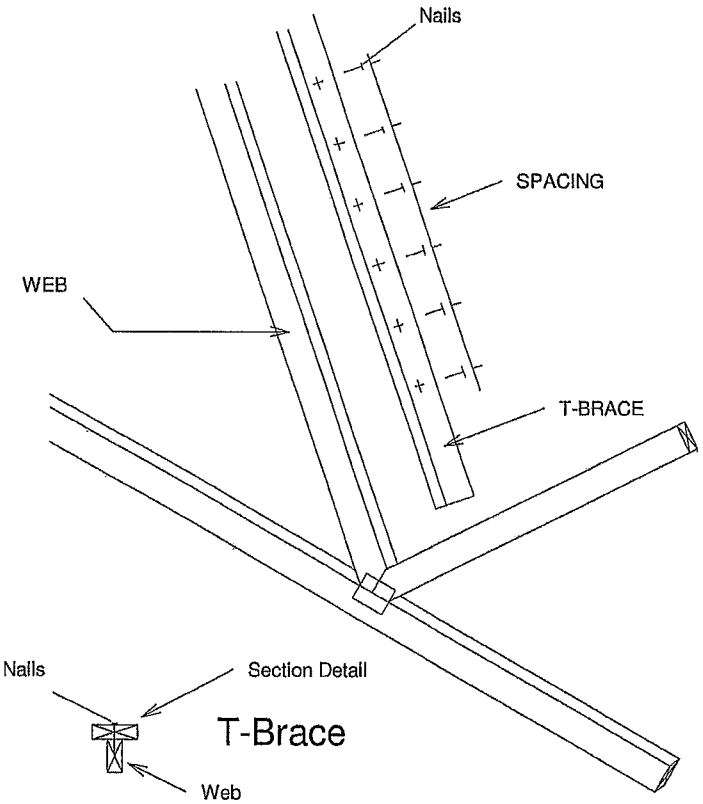
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

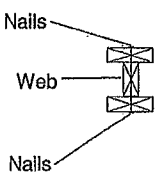
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	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

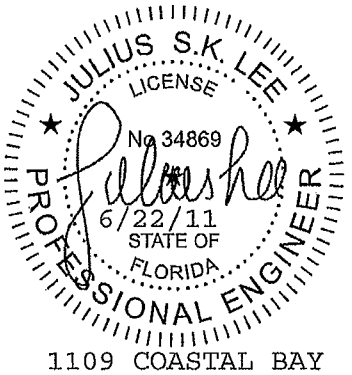
	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

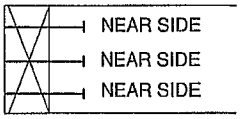
VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)					
	DIAM.	SYP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88 0	80 6	69.9	68.4	59.7
	135	93.5	85 6	74.2	72.6	63.4
	162	108 8	99 6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

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

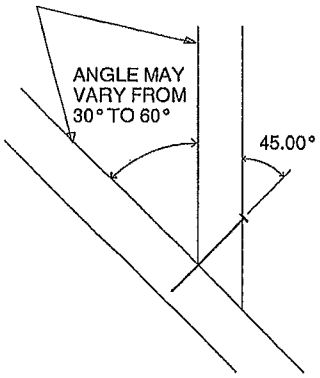
SIDE VIEW

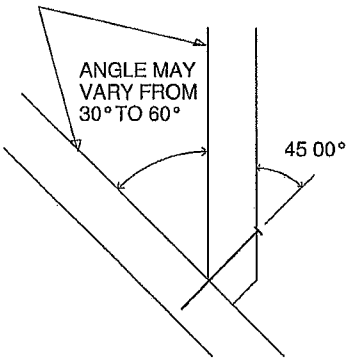
3 NAILS

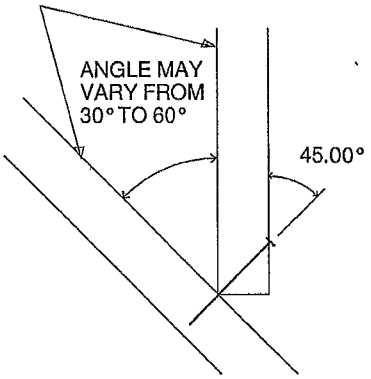


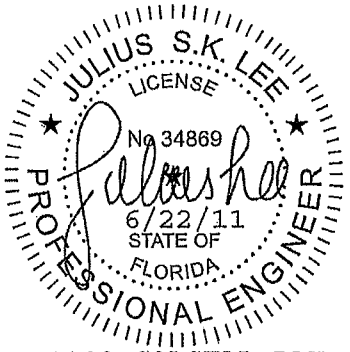
EXAMPLE
(3) - 16d NAILS (.162" diam. x 3 5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1 15 (DOL) = 291 5 lb Maximum Capacity









1109 COASTAL BAY
BOYNTON BC, FL 33435

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

MiTek Industries, Chesterfield, MO

MiTek Industries, Inc.

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

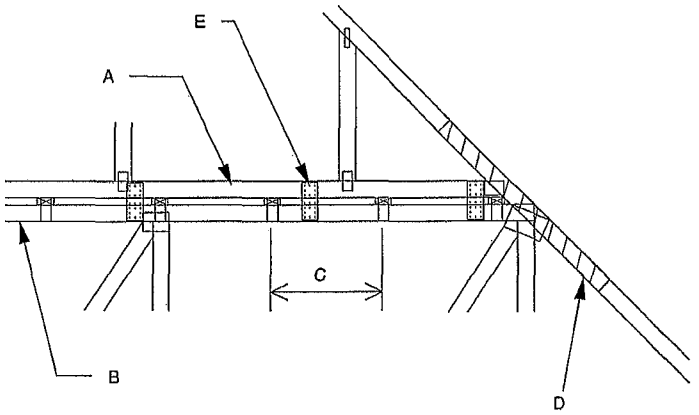
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED

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

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

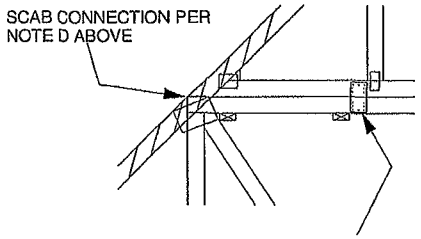
D - 2 X__ X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT IN BOTH DIRECTIONS AND
1 WIND SPEED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

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

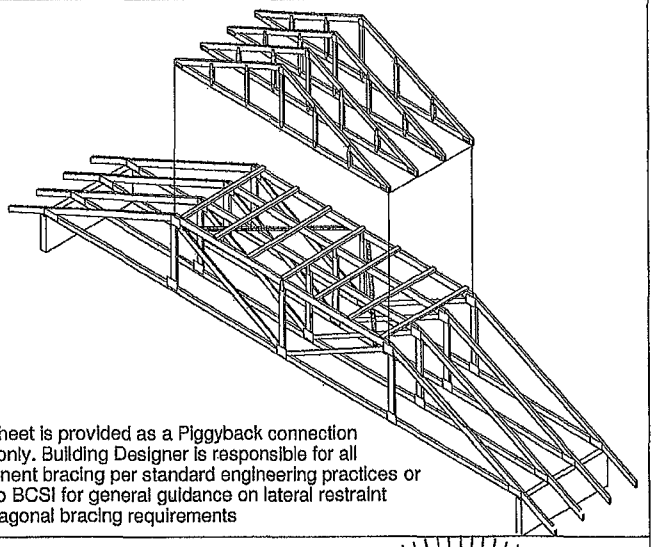


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS

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

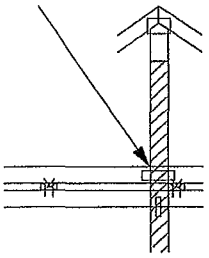


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O C W/ (4) 0.131" X 1 5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



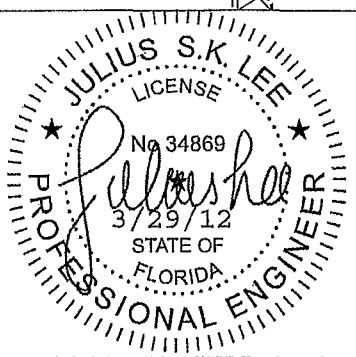
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

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

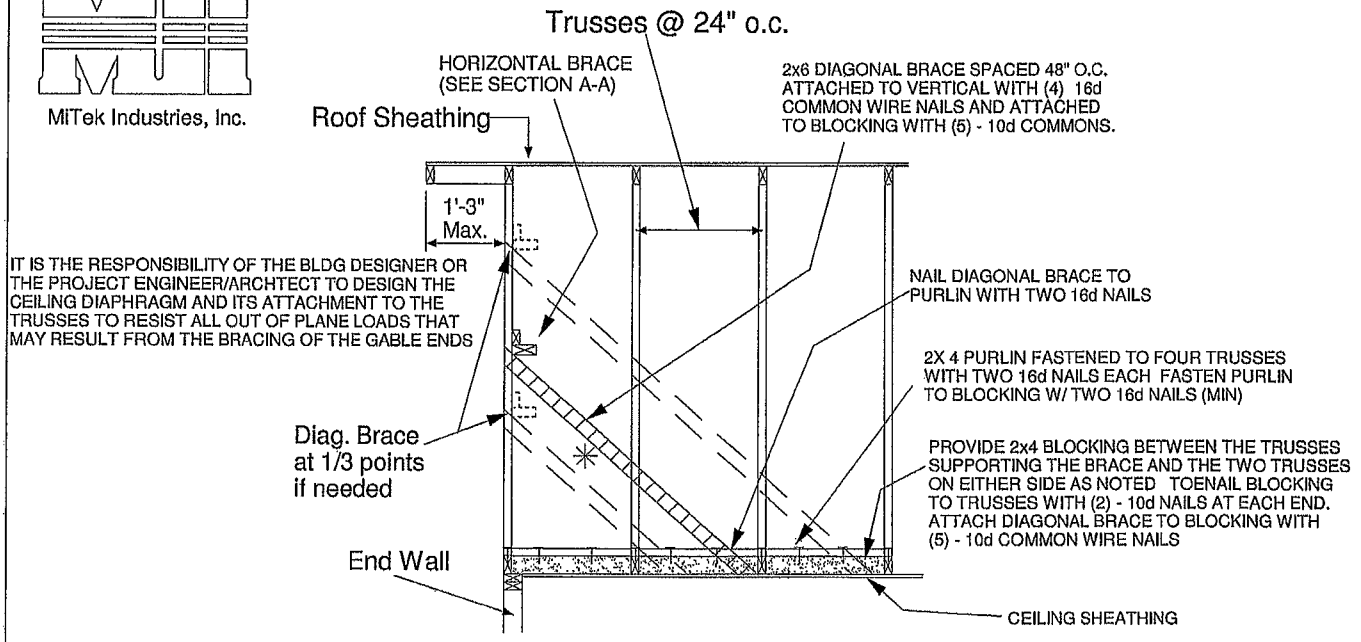


1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 14, 2012	Standard Gable End Detail	SHEET 2

MiTek Industries, Inc.

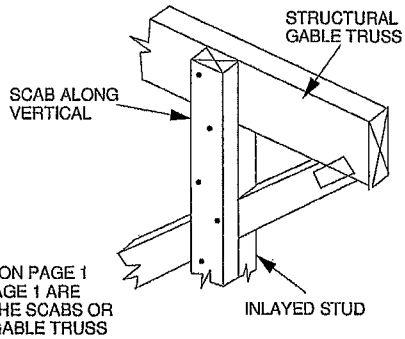
ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



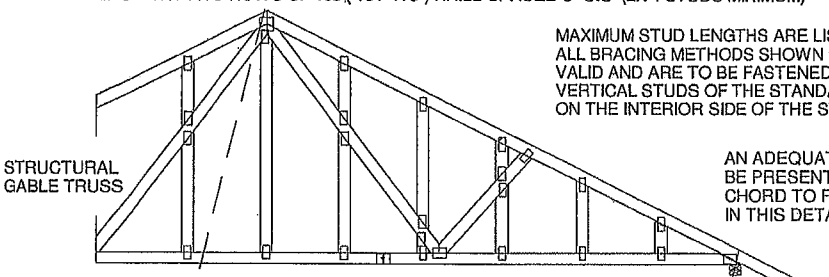
BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

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)

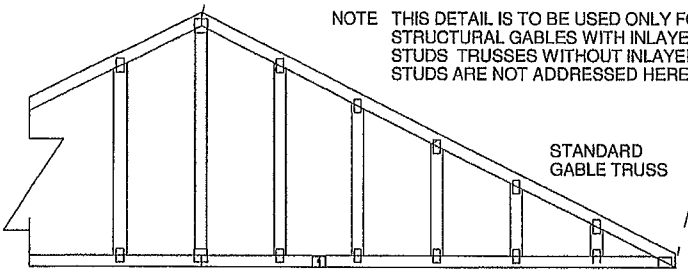


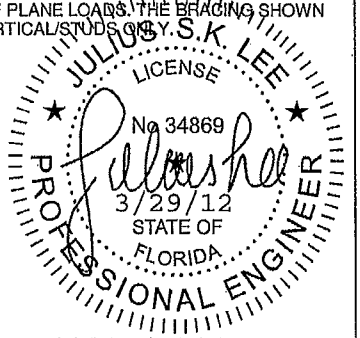
MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1 ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



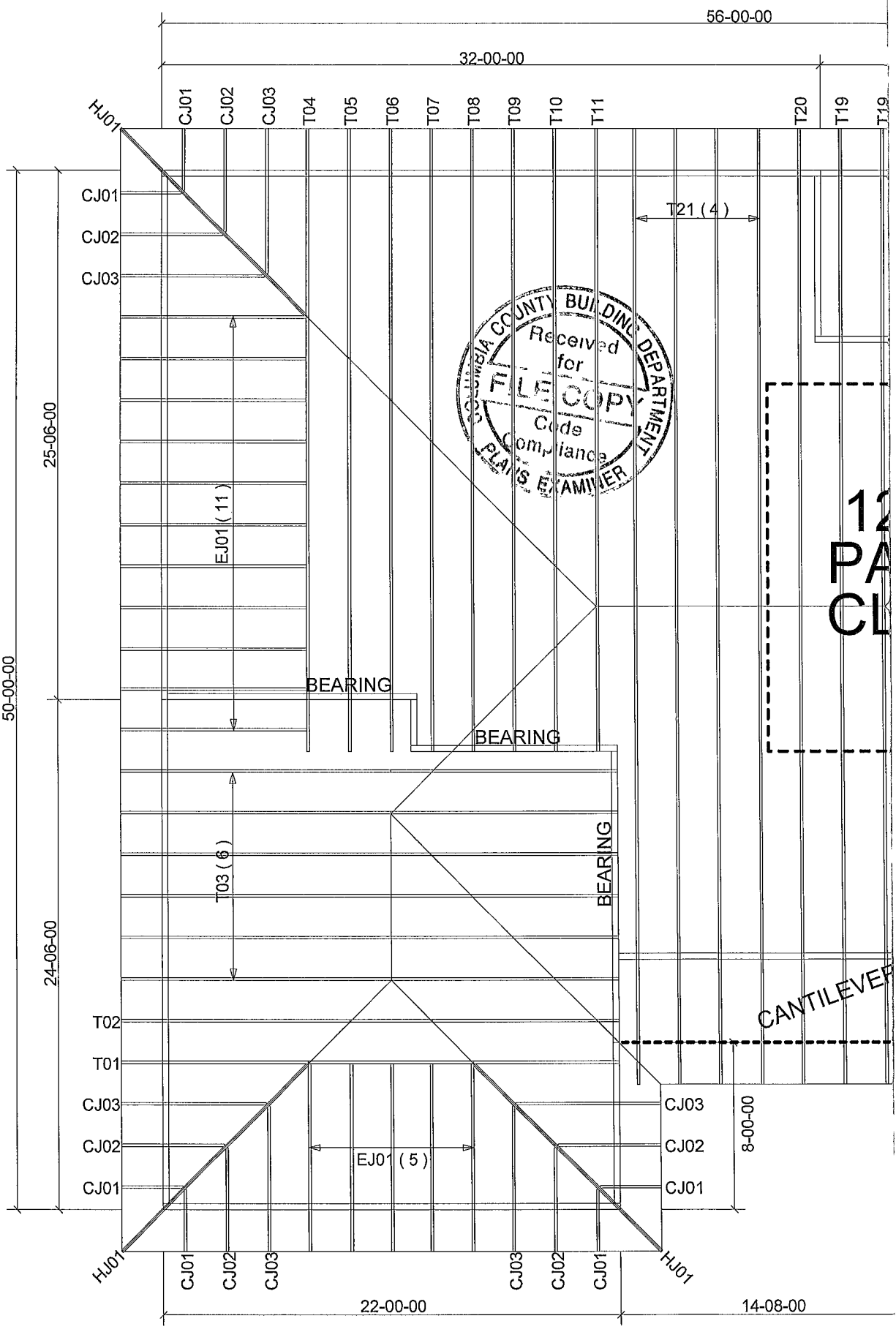
AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL STUDS ONLY.

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
BOYNTON BC, FL 33435



MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, WEYERH