



Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 1757900 - GIEBEIG - LOT 37 MF

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Giebeig Homes Project Name: Spec Hse Model: Stl Johns 3 Bdrm Modified
Lot/Block: 37 Subdivision: Mayfair
Address: TBD, TBD
City: Columbia Cty State: FL

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

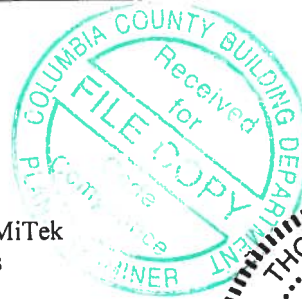
Name: License #:
Address:
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 28 individual, 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.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T16878232	CJ1	4/24/19	18	T16878249	T13	4/24/19
2	T16878233	CJ3	4/24/19	19	T16878250	T14	4/24/19
3	T16878234	CJ5	4/24/19	20	T16878251	T15	4/24/19
4	T16878235	EJ7	4/24/19	21	T16878252	T16	4/24/19
5	T16878236	HJ9	4/24/19	22	T16878253	T17	4/24/19
6	T16878237	T01G	4/24/19	23	T16878254	T18	4/24/19
7	T16878238	T03	4/24/19	24	T16878255	T19	4/24/19
8	T16878239	T03G	4/24/19	25	T16878256	T20	4/24/19
9	T16878240	T04	4/24/19	26	T16878257	T22	4/24/19
10	T16878241	T05	4/24/19	27	T16878258	T22G	4/24/19
11	T16878242	T06	4/24/19	28	T16878259	T23	4/24/19
12	T16878243	T07	4/24/19				
13	T16878244	T08	4/24/19				
14	T16878245	T09	4/24/19				
15	T16878246	T10	4/24/19				
16	T16878247	T11	4/24/19				
17	T16878248	T12	4/24/19				

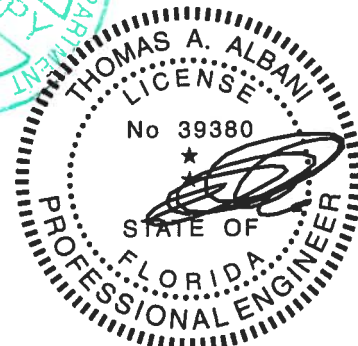


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Albani, Thomas

My license renewal date for the state of Florida is February 28, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 24, 2019

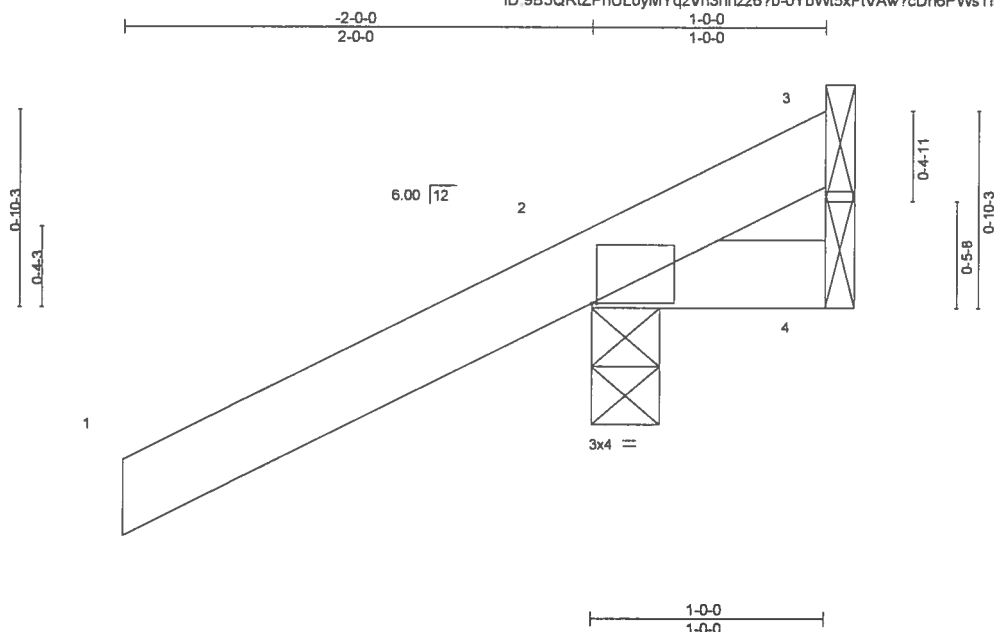
Albani, Thomas

1 of 1

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878232
1757900	CJ1	JACK-OPEN	8	1		

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15 38 27 2019 Page 1
ID 9B5QRIZPhUL0yMYqzVn3hhzz6?b-0YbWt5xFtVAw?cDn6PWsTiscDdMnqYfxv5ij3UzNSyw



Scale = 1/9.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						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.

REACTIONS. (lb/size) 3=26/Mechanical, 2=254/0-3-8, 4=47/Mechanical
Max Horz 2=66(LC 12)
Max Uplift 3=26(LC 1), 2=163(LC 12), 4=47(LC 1)
Max Grav 3=25(LC 16), 2=254(LC 1), 4=45(LC 16)

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

NOTES- (7)

- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=163.
- 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.



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April 24,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

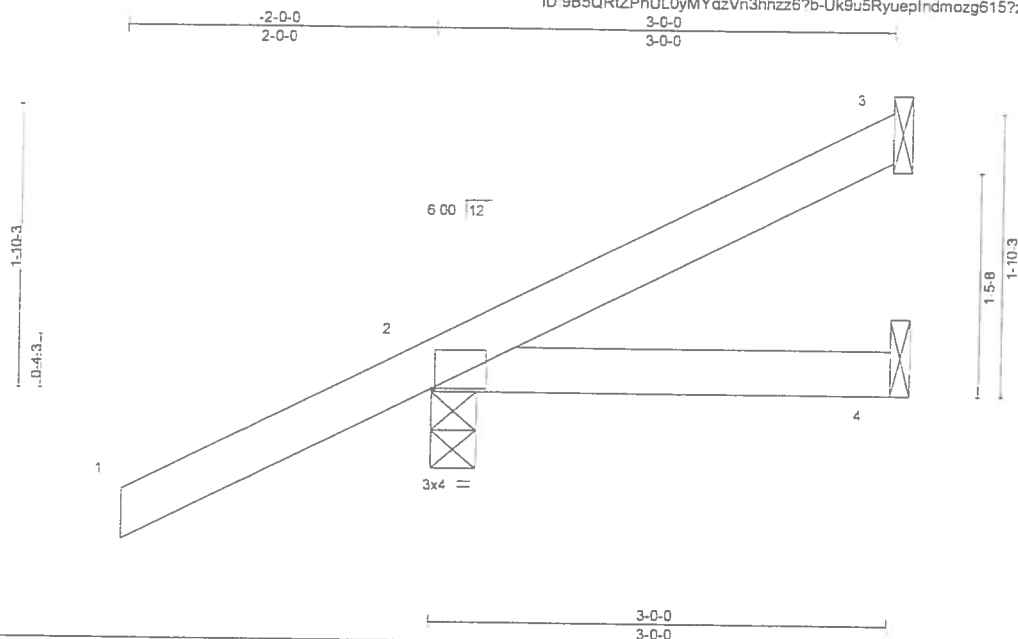
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878233
1757900	CJ3	JACK-OPEN	8	1		
Builders FirstSource Jacksonville, FL - 32244						

8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15 38 28 2019 Page 1
ID 9B5QRtZPhUL0yMYazVn3hhzz6?b-Uk9u5Ryueplndmzg615?zOnz1hsZ?vh8IRHbwzNSyv



Scale = 1 14.6

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP							
									Weight 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 3=52/Mechanical, 2=253/0-3-8, 4=20/Mechanical
Max Horz 2=113(LC 12)
Max Uplift 3=47(LC 12), 2=127(LC 12), 4=22(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

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

NOTES- (7)

- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=127.
- 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.



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April 24, 2019

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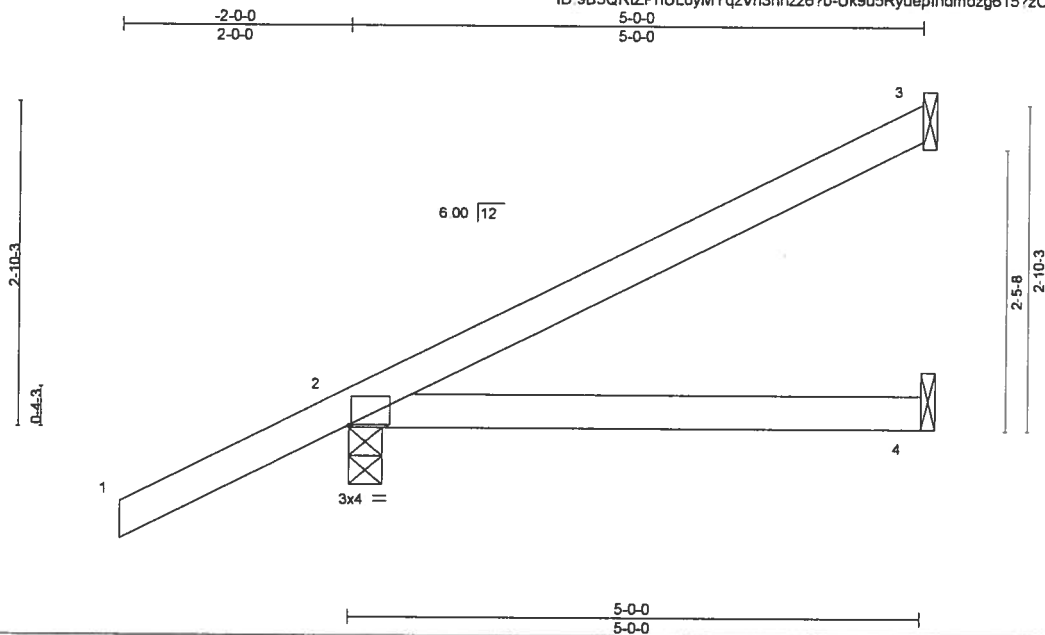
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MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job 1757900	Truss CJ5	Truss Type JACK-OPEN	Qty 8	Ply 1	GIEBEIG - LOT 37 MF	T16878234
Builders FirstSource, Jacksonville, FL - 32244,						Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:28 2019 Page 1
ID 9B5QRIZPhUL0yMYqzVn3hhzz67b-Uk9u5RyuepIndmozg615?zOn91djZ7vh8IRHbwzNSyv



Scale = 1:19.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	0.08	4-7	>756	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	0.07	4-7	>863	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						
									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.

REACTIONS. (lb/size) 3=108/Mechanical, 2=313/0-3-8, 4=53/Mechanical
Max Horz 2=162(LC 12)
Max Uplift 3=97(LC 12), 2=137(LC 12), 4=44(LC 9)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=137.
- 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.



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Date:

April 24,2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878235
1757900	EJ7	JACK	29	1		

Builders FirstSource Jacksonville FL - 32244

8 240 s Dec 6 2018 MiTek Industries Inc. Wed Apr 24 15 38 29 2019 Page 1
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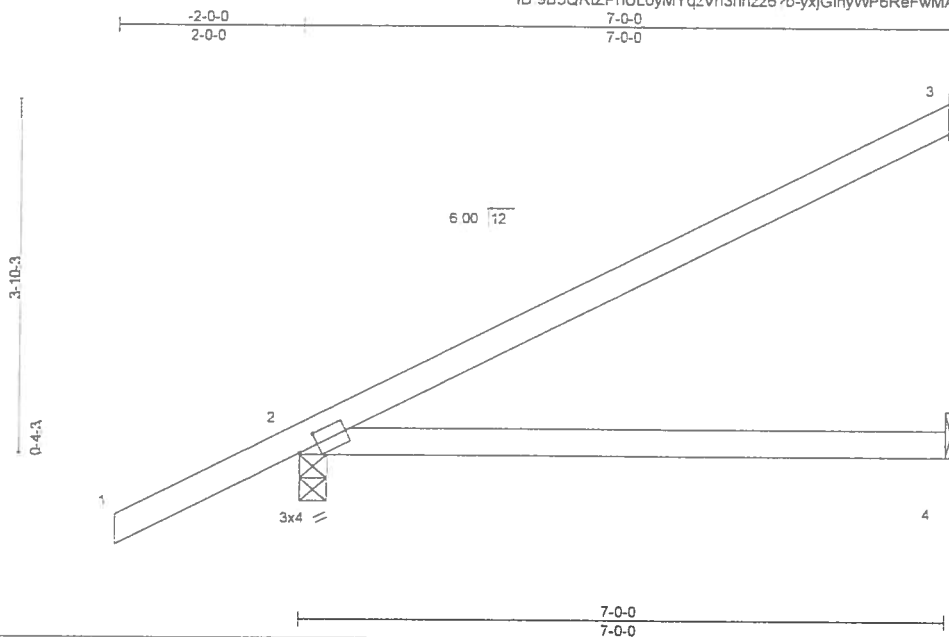


Plate Offsets (X Y)-- [2-0-2-10-0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.66	Vert(LL)	0.12	4-7	>668	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.21	4-7	>395	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						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

REACTIONS. (lb/size) 3=160/Mechanical, 2=380/0-3-8, 4=81/Mechanical
Max Horz 2=144(LC 12)
Max Uplift 3=93(LC 12) 2=82(LC 12)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2
- 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



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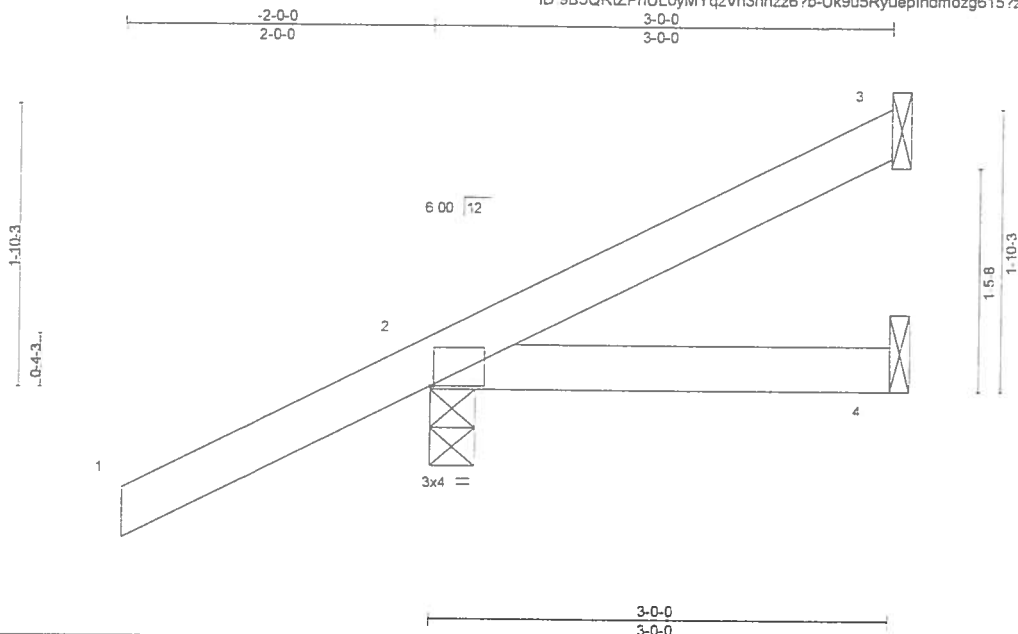


6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878233
1757900	CJ3	JACK-OPEN	8	1		

Builders FirstSource Jacksonville, FL - 32244

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:28 2019 Page 1
ID: 9B5QRtZPhUL0yMYqzVn3hhzz6?b-Uk9u5RyuepIndmozg615?zOnz1nsZ?vh8IRHbwzNSyv



Scale = 1/4" = 6'

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 3=52/Mechanical, 2=253/0-3-8, 4=20/Mechanical
Max Horz 2=113(LC 12)
Max Uplift 3=47(LC 12), 2=127(LC 12), 4=22(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

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

NOTES- (7)

- 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" tall by 2'-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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=127.
- 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.



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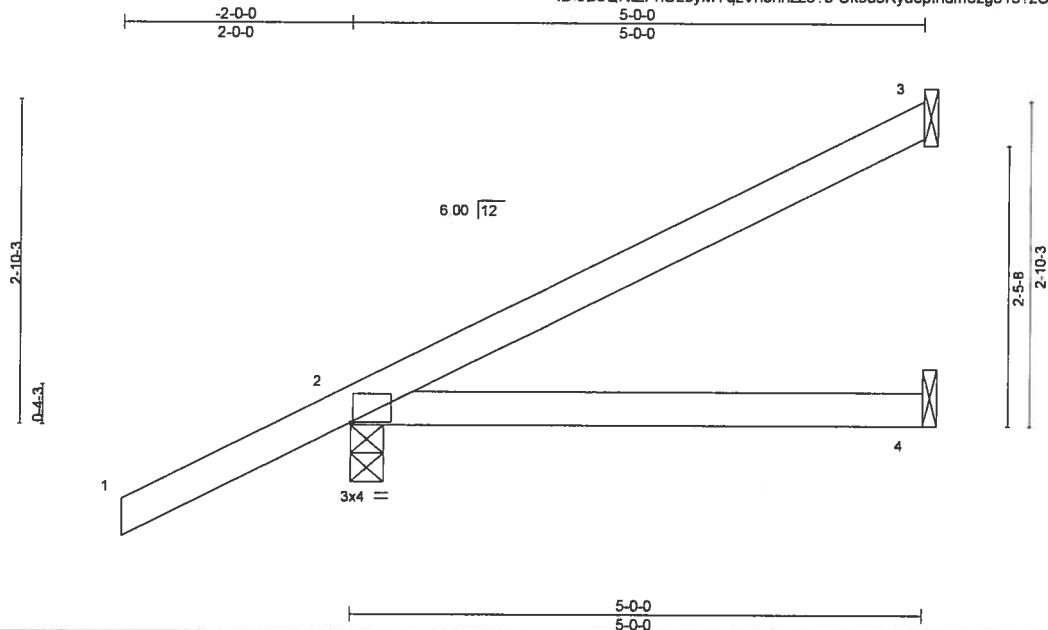
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6904 Parke East Blvd
Tampa, FL 33610

Job 1757900	Truss CJ5	Truss Type JACK-OPEN	Qty 8	Ply 1	GIEBEIG - LOT 37 MF	T16878234
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Builders FirstSource, Jacksonville, FL - 32244

8 240 s Dec 6 2018 MITek Industries, Inc. Wed Apr 24 15 38 28 2019 Page 1
ID 9B5QRIZPhUL0yMYqzVn3hhzz67b-Uk9u5RyuepIndmozg615?zOn91djZ?vh8IRHbwzNSyv



Scale = 1:19.5

Plate Offsets (X,Y)-- [2.0-0.4,0-0.0]

LOADING (psf)	SPACING- 2.0-0	CSI.	DEFL.	in (loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) 0.08	4-7	>756	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.34	Vert(CT) 0.07	4-7	>863	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MP						
							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.

REACTIONS. (lb/size) 3=108/Mechanical, 2=313/0-3-8, 4=53/Mechanical
Max Horz 2=162(LC 12)
Max Uplift 3=97(LC 12), 2=137(LC 12), 4=44(LC 9)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES- (7)

- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=137.
- 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.



Thomas A. Albani PE No.39380
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 24, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

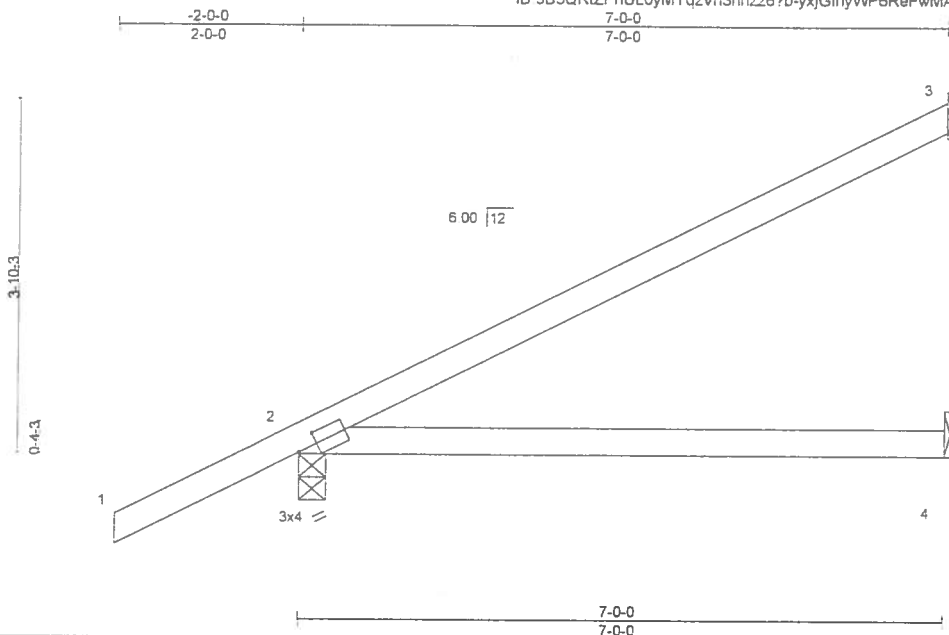
MITek

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878235
1757900	EJ7	JACK	29	1		

Builders FirstSource, Jacksonville, FL - 32244

8,240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:39:29 2019 Page 1
ID 9B5QRIZPhUL0yMYqzVn3hhzz6?b-yxjGlnyWP6ReFwMADqYKYAxtURxMIS9qNPBq8NzNSyu



Scale 1/2\"=1

Plate Offsets (X,Y)- [2 0-2-10.0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.66	Vert(LL)	0 12	4-7	>668	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.21	4-7	>395	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP							
									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

REACTIONS. (lb/size) 3=160/Mechanical, 2=380/0-3-8, 4=81/Mechanical
Max Horz 2=144(LC 12)
Max Uplift 3=-93(LC 12), 2=-82(LC 12)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2
- 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.



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April 24,2019

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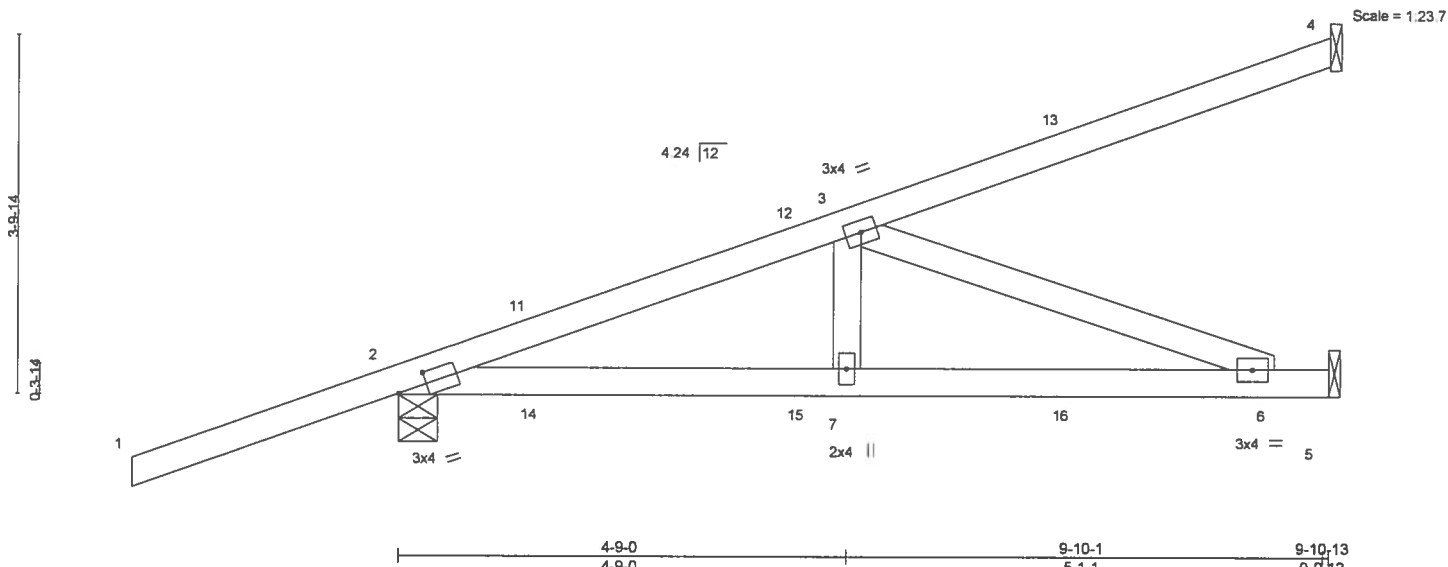
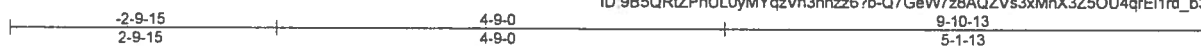


6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878236
1757900	HJ9	DIAGONAL HIP GIRDER	4	1		

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:30 2019 Page 1
ID 9B5QRZPhUL0yMYqzVn3hhzz6?b-Q7GeW7z8AQZVs3xMnX3Z5OU4qrEi1rd_b3wNpgzNSyt



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	0.13	6-7	>916	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.13	6-7	>903	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.31	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.

REACTIONS.

(lb/size) 4=144/Mechanical, 2=466/0-4-15, 5=260/Mechanical
Max Horz 2=234(LC 4)
Max Uplift 4=136(LC 4), 2=347(LC 4), 5=221(LC 5)
Max Grav 4=144(LC 1), 2=466(LC 1), 5=269(LC 3)

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

TOP CHORD 2-3=643/449
BOT CHORD 2-7=513/586, 6-7=513/586
WEBS 3-7=125/267, 3-6=625/548

NOTES- (9)

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=136, 2=347, 5=221.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 103 lb up at 1-5-12, 83 lb down and 103 lb up at 1-5-12, 26 lb down and 37 lb up at 4-3-11, 26 lb down and 37 lb up at 4-3-11, and 50 lb down and 96 lb up at 7-1-10, and 50 lb down and 96 lb up at 7-1-10 on top chord, and 70 lb down and 75 lb up at 1-5-12, 70 lb down and 75 lb up at 1-5-12, 53 lb down and 30 lb up at 4-3-11, 53 lb down and 30 lb up at 4-3-11, and 40 lb down and 58 lb up at 7-1-10, and 40 lb down and 58 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=54, 5-8=20



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Date:

April 24, 2019

Continued on page 2

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MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878236
1757900	HJ9	DIAGONAL HIP GIRDER	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15 38 30 2019 Page 2
ID 9B5QRtZPhUL0yMYqzVn3nhzz6?b-Q7GeW7z8AQZVs3xMnX3Z5OU4qrE1rd_b3wNgpzNSyt

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 11=49(F=24, B=24) 13=-63(F=-31, B=-31) 14=70(F=35, B=35) 15=4(F=2, B=2) 16=-49(F=-25, B=-25)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 BEFORE USE.

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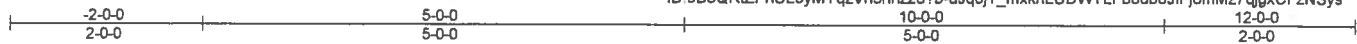


6904 Parke East Blvd
Tampa, FL 36610

Job 1757900	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	GIEBEIG - LOT 37 MF	T16878237
Job Reference (optional)						

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:31 2019 Page 1
ID: 9B5QRIZPhUL0yMYqzVn3hhzz6?b-uJq0T_mxkhLUDWYLFbodb0JIFjomMz7qjgxCfzNSys



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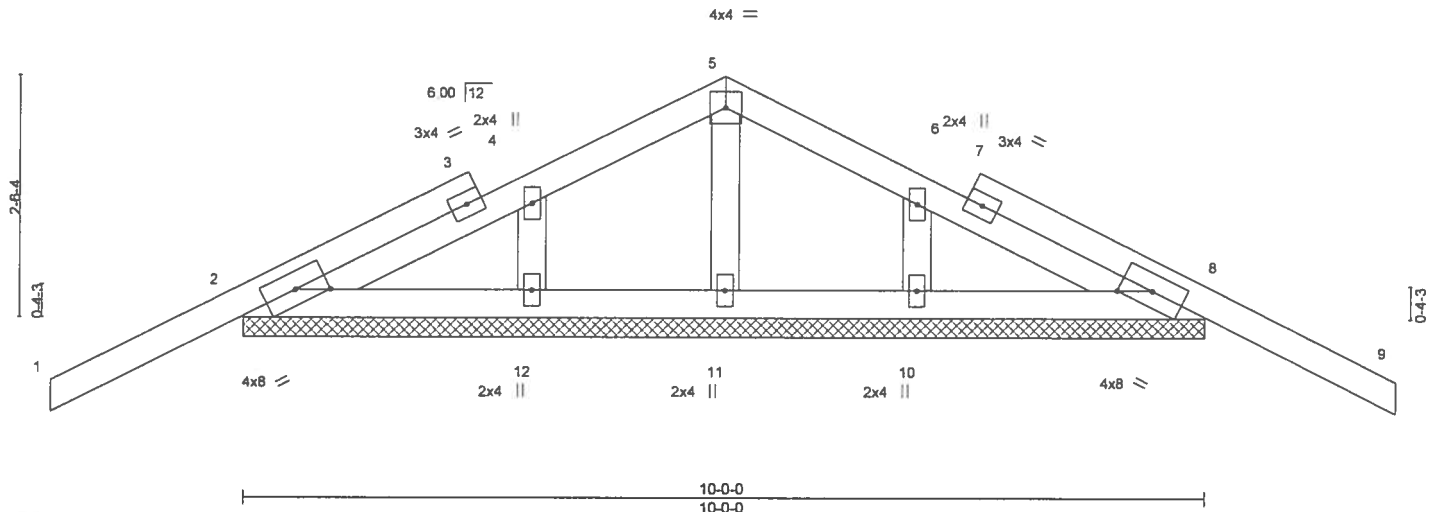


Plate Offsets (X,Y)--		[2:0-4-0,0-1-15], [8:0-4-0,0-1-15]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.02	9	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.03	9	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S						Weight: 50 lb	FT = 20%

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

REACTIONS. All bearings 10-0-0.
(lb) - Max Horz 2=67(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 11, 12, 10 except 2=135(LC 12), 8=147(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

NOTES- (11)

- Unbalanced roof live loads have been considered for this design.
- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 10 except (jt=lb) 2=135, 8=147.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 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.



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
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Date:

April 24,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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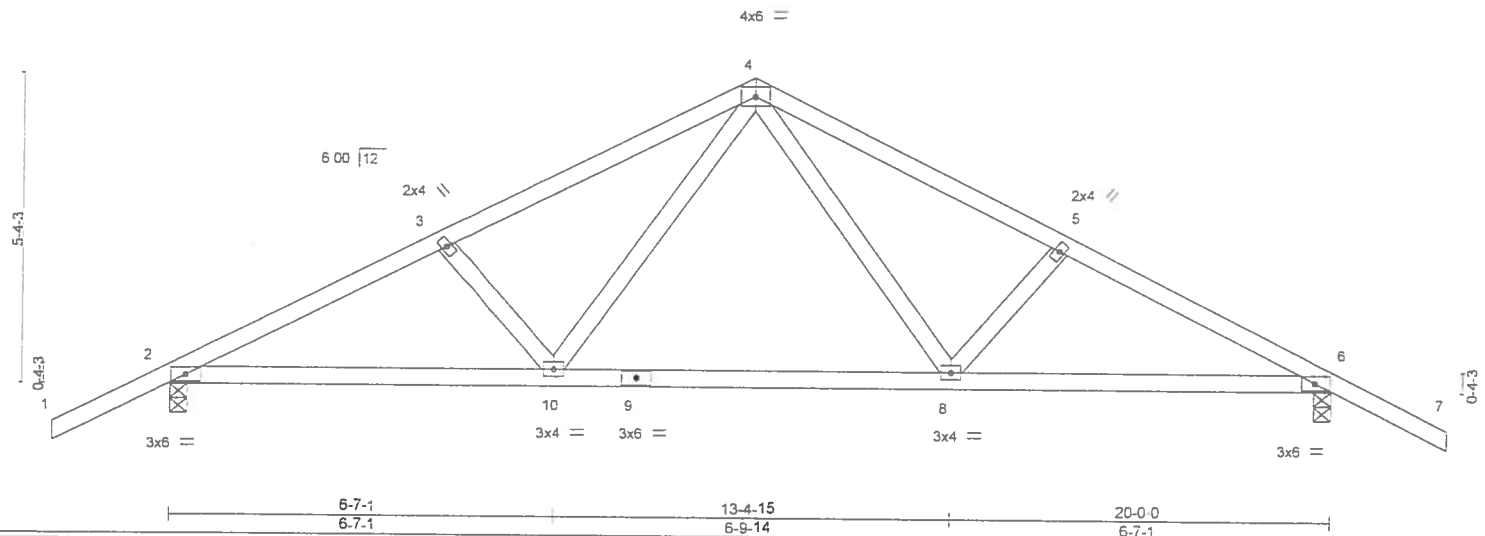
6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878238
1757900	T03	Common	9	1		

Builders FirstSource, Jacksonville, FL - 32244

8.240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15:38:32 2019 Page 1
ID 9B5QRIZPnUL0yMYqzVn3hhzz67b-MWOPwo70i1pC6N5lvy61ApZS8er6VITG3NPukizNSyr

Scale = 1/32" = 1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(LL) 0.21 8-10 >999 240		
BCLL 0.0	Rep Stress Incr NO	WB 0.26	Vert(CT) -0.34 8-10 >706 180		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.04 6 n/a n/a		
				Weight 96 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-9-9 oc bracing.

REACTIONS

(lb/size) 2=1053/0-3-8 6=1053/0-3-8
Max Horz 2=-81(LC 10)
Max Uplift 2=-248(LC 12) 6=-248(LC 13)

FORCES

(lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1772/939 3-4=-1621/901 4-5=-1621/901 5-6=-1772/939
BOT CHORD 2-10=-691/1541 8-10=-358/1017 6-8=-717/1541
WEBS 4-8=-347/676 5-8=-247/260 4-10=-347/676 3-10=-247/260

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 6=248
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20



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Date:

April 24, 2019

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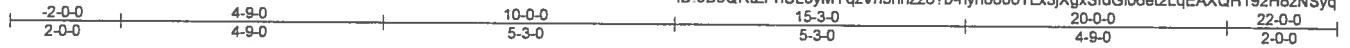


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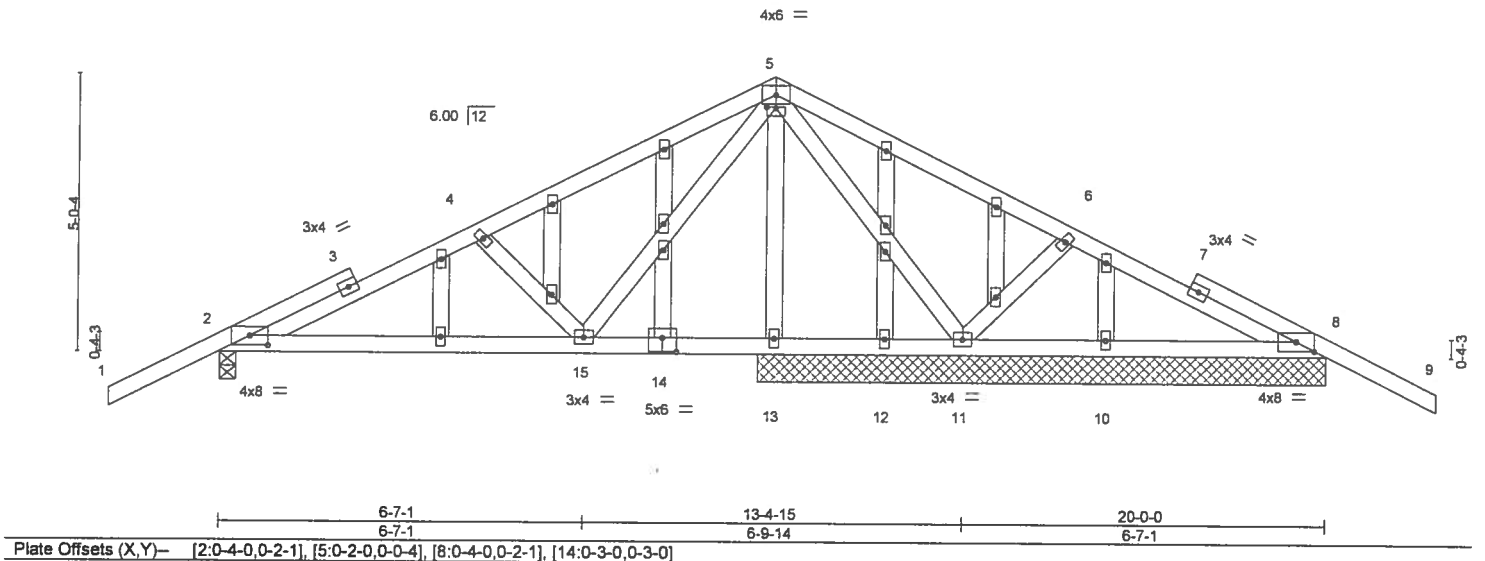
Job 1757900	Truss T03G	Truss Type GABLE	Qty 1	Ply 1	GIEBEIG - LOT 37 MF	T16878239
Job Reference (optional)						

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:33 2019 Page 1
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Scale = 1/40.2



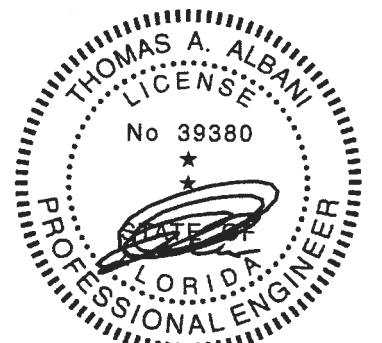
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	Vert(LL)	-0.03 15-29	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.28	Vert(CT)	-0.07 15-29	>999	180		
BCLL 0.0	Lumber DOL 1.25	WB 0.42	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2017/TP12014							
							Weight: 126 lb	FT = 20%

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

REACTIONS. All bearings 10-3-8 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=120(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=259(LC 12), 8=163(LC 13), 11=316(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 13, 12, 10, 8 except 2=546(LC 1), 8=281(LC 24), 11=751(LC 1)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-625/385, 4-5=-466/318, 5-6=-75/323
BOT CHORD 2-15=-287/569
WEBS 5-11=-631/347, 6-11=-286/286, 5-15=-204/382, 4-15=-318/294

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=259, 8=163, 11=316, 8=163.
 - 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.



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April 24, 2019

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878240
1757900	T04	Hip Girder	1	1		

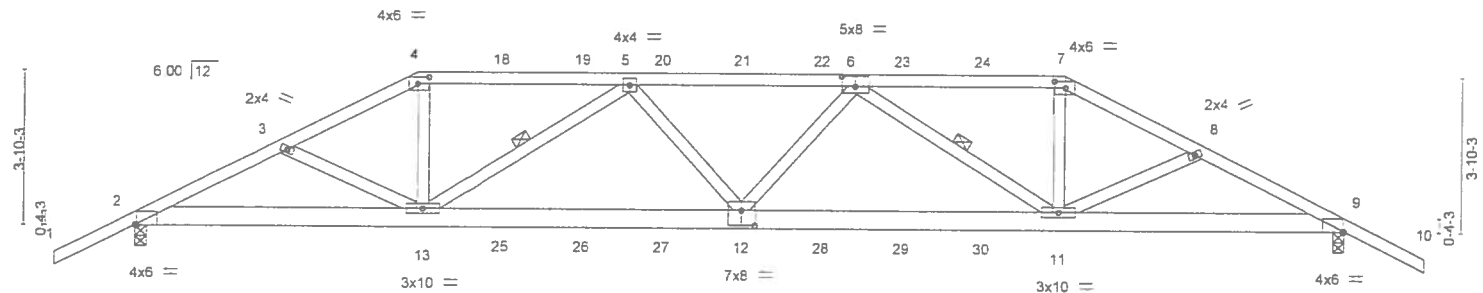
Builders FirstSource, Jacksonville, FL - 32244

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:34 2019 Page 1

ID 9B5QRiZPhUL0yMYqzVn3hzz67b-JuW9LU0eEf3wLhF70N8VFEefASgQzbdZWgubpazNSyp

-2-0-0	3-9-2	7-0-0	12-2-14	17-10-2	23-1-0	26-3-14	30-1-0	32-1-0
2-0-0	3-9-2	3-2-14	5-2-14	5-7-5	5-2-14	3-2-14	3-9-2	2-0-0

Scale = 1:55.5



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878240
1757900	T04	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15 38 34 2019 Page 2
ID 9B5QRIZPhUL0yMYqzVn3hhzz6?b-JuW9LU0eEf3wLhF70N8VFEefASgQzbdZWgubpazNSyp

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 7-10=-54, 2-9=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 7=-173(B) 12=-61(B) 13=-293(B) 11=-293(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 23=-106(B) 24=-106(B) 25=-61(B)
26=-61(B) 27=-61(B) 28=-61(B) 29=-61(B) 30=-61(B)

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878241
1757900	T05	HIP	1	1		

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8 240 s Dec 6 2018 MiTek Industries Inc Wed Apr 24 15 38 35 2019 Page 1
ID 9B5QRIZPhUL0yMYqzVn3hhzz67b-n44XZq1H_yBnzrqKa4fkoRBzqsvXi34jIKe8L0zNSyo

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

Scale = 1/55.5

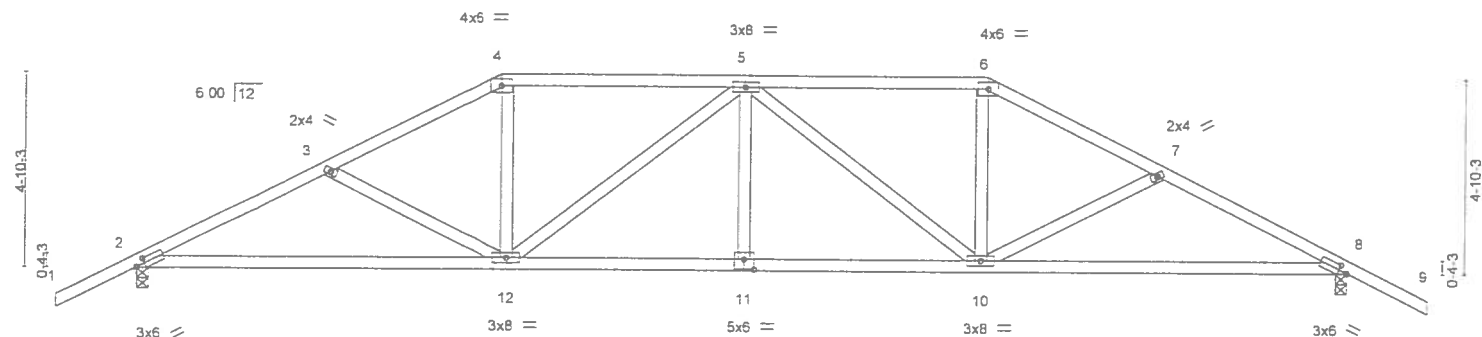


Plate Offsets (X Y) -	[2 0-2-9.0-1-8]	[8 0-2-9.0-1-8]	[11 0-3-0 0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.16	12-18	>999	240	MT20
TCOL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.33	12-18	>999	180	244/190
BCCL 0.0	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.09	8	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 154 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-6-3 oc bracing

REACTIONS.

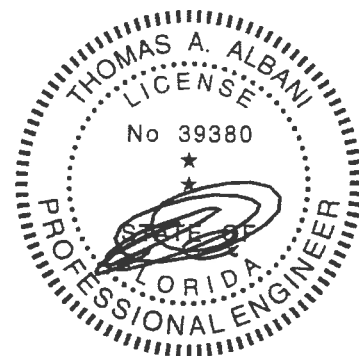
(lb/size) 8=1221/0-3-8, 2=1221/0-3-8
Max Horz 2=-75(LC 10)
Max Uplift 8=-234(LC 13), 2=-234(LC 12)

FORCES.

(lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2046/1062, 3-4=-1789/916, 4-5=-1565/875, 5-6=-1565/875, 6-7=-1789/916,
7-8=-2046/1062
BOT CHORD 2-12=-794/1804, 11-12=-747/1863, 10-11=-747/1863, 8-10=-824/1804
WEBS 3-12=-289/276, 4-12=-202/530, 5-12=-465/216, 5-10=-465/216, 6-10=-202/530,
7-10=-289/276

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl.,
GCCP=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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
8=234, 2=234.
- 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.



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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878242
1757900	T06	HIP	1	1		

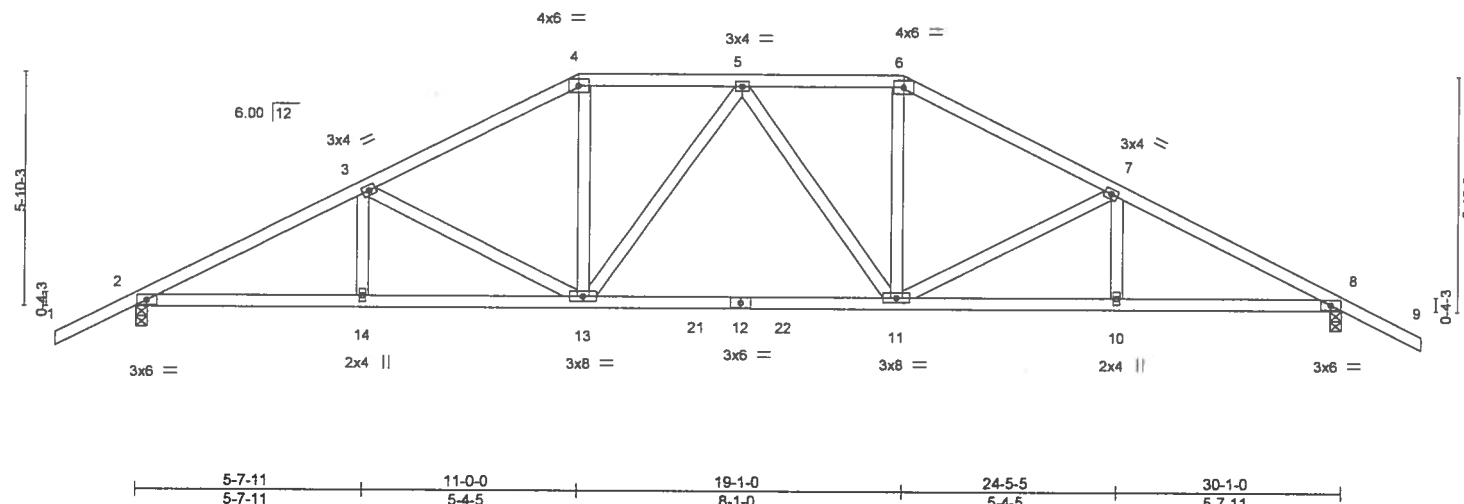
Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15:38:36 2019 Page 1

ID 9B5QRtZPhUL0yMYqzVn3hhzz6?b-FHevmA2vIGJea_PW8oAzKfk7mGI_RXes_NitZNSyn

-2-0-0	5-7-11	11-0-0	15-0-8	19-1-0	24-5-5	30-1-0	32-1-0
2-0-0	5-7-11	5-4-5	4-0-8	4-0-8	5-4-5	5-7-11	2-0-0

Scale = 1/55.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	-0.15	11-13	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.63	Vert(CT)	-0.30	11-13	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.34	Horz(CT)	0.08	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2017/TPI2014						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 3-10-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-2 oc bracing.

REACTIONS.

(lb/size) 2=1221/0-3-8, 8=1221/0-3-8
Max Horz 2=88(LC 10)
Max Uplift 2=249(LC 12), 8=249(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2070/1047, 3-4=1636/876, 4-5=1410/844, 5-6=1410/844, 6-7=1636/876,
7-8=2070/1047
BOT CHORD 2-14=773/1802, 13-14=773/1802, 11-13=556/1488, 10-11=803/1802, 8-10=803/1802
WEBS 3-13=458/346, 4-13=196/465, 6-11=196/465, 7-11=458/346

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=249, 8=249.
- 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.



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8.240 s Dec 6 2018 MITek Industries, Inc Wed Apr 24 15:38:37 2019 Page 1
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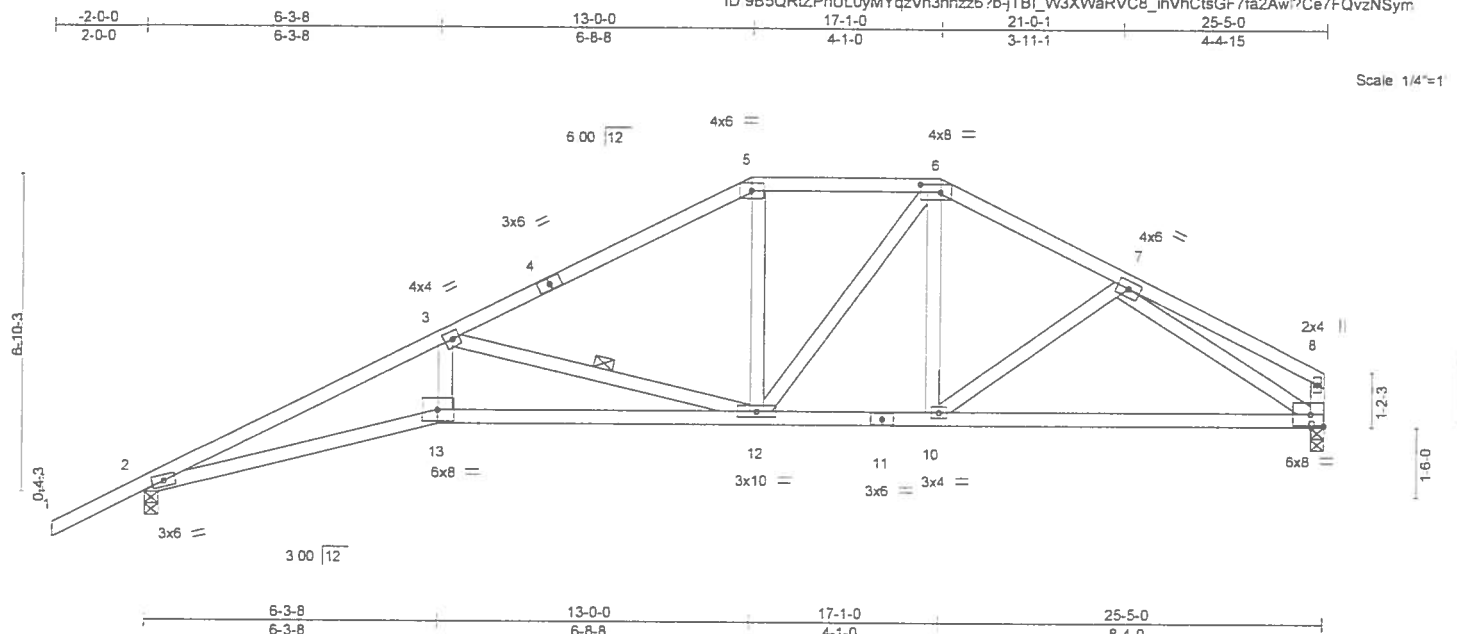


Plate Offsets (X,Y)=[6:0-5-4-0-2-0]		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
LOADING (psf)		SPACING-	2-0-0	TC	0.61	Vert(LL)	-0.18	12-13	>999	240			MT20	244/190	
TCLL	20.0	Plate Grip DOL	1.25	BC	0.77	Vert(CT)	-0.37	12-13	>810	180					
TCDL	7.0	Lumber DOL	1.25	WB	0.60	Horz(CT)	0.16	9	n/a	n/a					
BCLL	0.0	Rep Stress Incr	YES	Matrix-MS											
BCDL	10.0	Code	FBC2017/TPI2014										Weight	134 lb	FT = 20%

LUMBER-

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

REACTIONS.

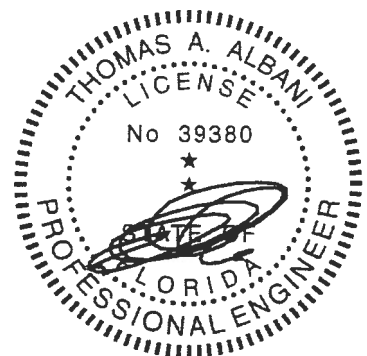
(lb/size) 2=1047/0-3-8, 9=931/0-3-8
Max Horz 2=160(LC 12)
Max Uplift 2=-234(LC 12), 9=-167(LC 13)

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

TOP CHORD 2-3=-3026/1617, 3-5=-1401/762, 5-6=-1187/755, 6-7=-1216/695
BOT CHORD 2-13=-1522/2737, 12-13=-1447/2585, 10-12=-442/1042, 9-10=-564/1063
WEBS 3-13=-324/763, 3-12=-1454/946, 5-12=-100/355, 6-12=-151/304, 7-9=-1143/654

NOTES- (9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=234, 9=167.
- 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.



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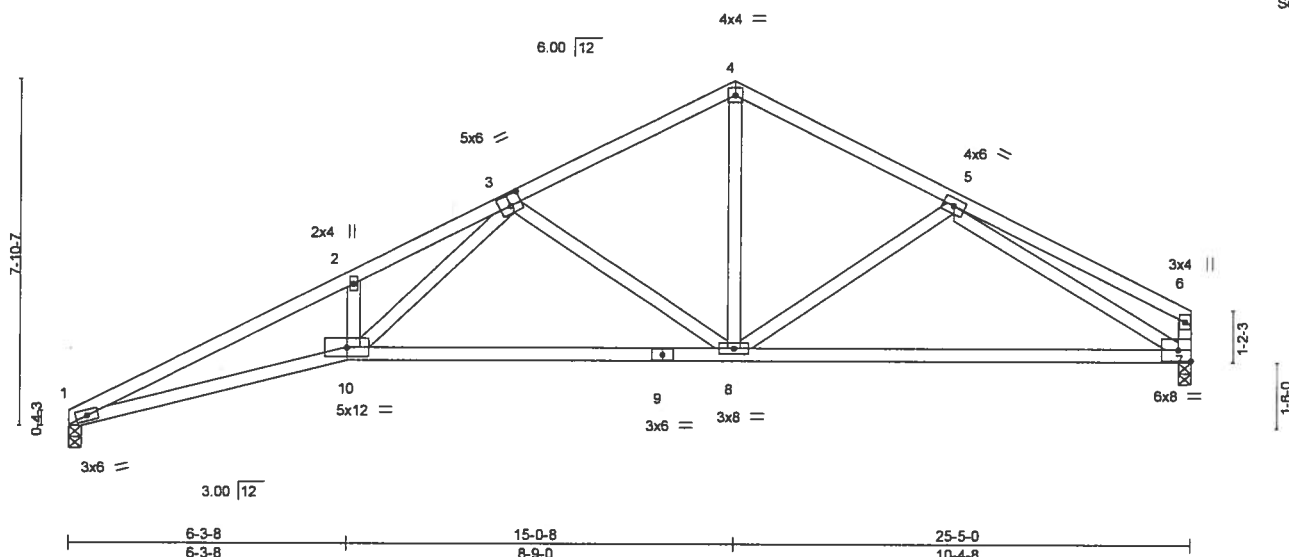


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8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15 38 38 2019 Page 1
ID: 9B5QRIZPhUL0yMYqzVn3hhzz6?b=BfgBs39HtZMqIYuFDDRP4pRY3xavJC9RlspvLzNSv

Scale = 1-50.4



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 "Except"		
	7-9: 2x4 SP M 31	BOT CHORD	Rigid ceiling directly applied or 4-7-5 oc bracing.
WEBS	2x4 SP No.3 "Except"		
	6-7: 2x4 SP No.2		

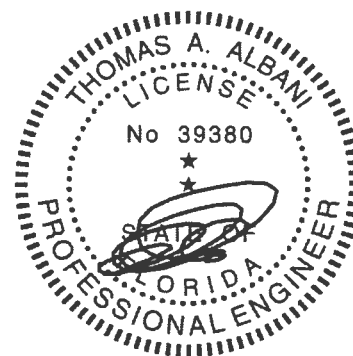
REACTIONS. (lb/size) 1=935/0-3-8, 7=935/0-3-8
Max Horz 1=145(LC 12)
Max Uplift 1=203(LC 12), 7=180(LC 13)

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

TOP CHORD	1-2=3036/1640, 2-3=3019/7194, 3-4=1165/686, 4-5=1166/690, 5-6=258/141
BOT CHORD	1-10=1541/2747, 8-10=871/1615, 7-8=590/1093
WEBS	2-10=234/270, 3-10=888/1465, 3-8=765/574, 4-8=395/729, 5-7=1107/649

NOTES- (8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=203, 7=180.
- 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.



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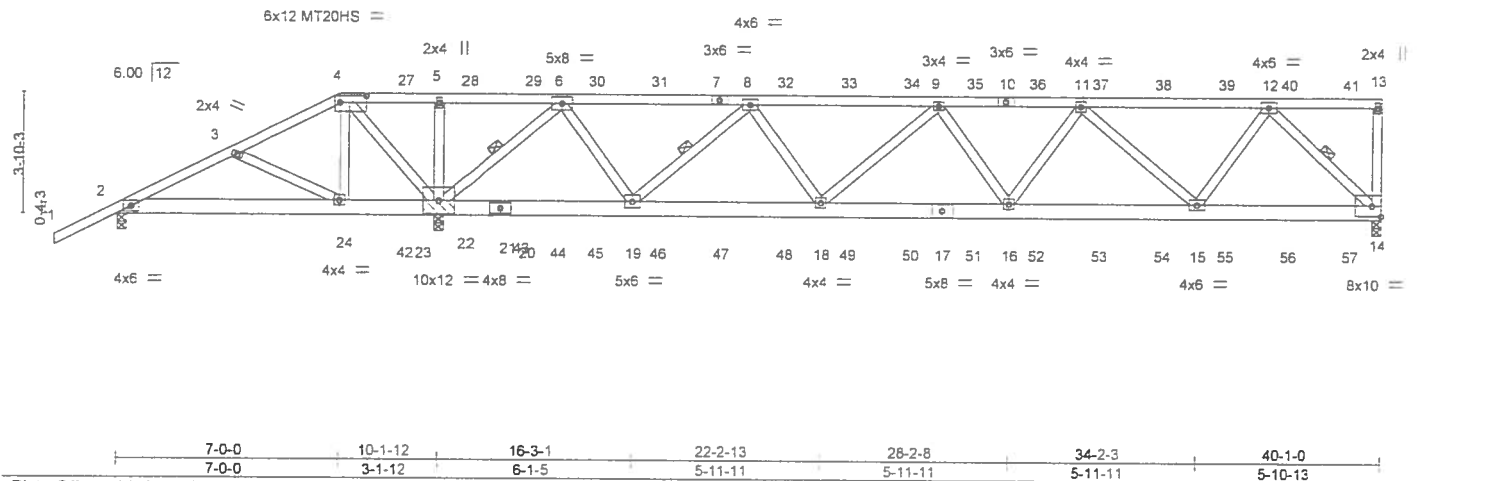
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878245
1757900	T09	Half Hip Girder	1	1		
Builders FirstSource Jacksonville, FL - 32244						Job Reference (optional)

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15 38 40 2019 Page 1
ID 9B5QRtZPhUL0yMYqzVn3hhzz6?b-72tQcY5PpVp43ciHNdFvUuIatdxNE7SucLv0EzNSy

-2-0-0	3-9-2	7-0-0	10-1-12	14-0-0	19-11-10	25-11-6	30-5-10	36-5-4	40-1-0
2-0-0	3-9-2	3-2-14	3-1-12	3-10-4	5-11-10	5-11-11	4-6-5	5-11-10	3-7-12

Scale = 1 70 9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86	Vert(LL)	-0.17 16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.32 16-18	>999	180	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.05 14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-7, 10-13 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 2-5-3 oc purins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-6-13 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-22, 8-19, 12-14

REACTIONS. (lb/size) 14=2149/0-3-8, 2=389/0-3-8, 22=4516/(0-3-8 + bearing block) (req 0-5-5)
Max Horz 2=146(LC 8)
Max Uplift 14=661(LC 4), 2=636(LC 20), 22=1533(LC 5)
Max Grav 14=2156(LC 20), 2=162(LC 13), 22=4516(LC 1)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-383/1698, 3-4=-394/1776, 4-5=-876/2852, 5-6=-876/2852, 6-8=-937/204,
8-9=-3102/841, 9-11=-3670/1022, 11-12=-2559/692, 13-14=-261/148
BOT CHORD 2-24=-1497/306, 22-24=-1566/326, 19-22=-274/86, 18-19=-751/2555, 16-18=-1074/3673,
15-16=-1023/3477, 14-15=-550/1793
WEBS 4-24=-330/504, 4-22=-1964/853, 5-22=-401/210, 6-22=-3470/1064, 6-19=-496/2143,
8-19=-2225/753, 8-18=-169/1009, 9-18=-792/323, 11-16=0/414, 11-15=-1256/453,
12-15=-260/1406, 12-14=-2499/772

NOTES- (12)

- 2x6 SP No.2 bearing block 12" long at jt. 22 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2
- Unbalanced roof live loads have been considered for this design.
- 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); porch left exposed, Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding
- All plates are MT20 plates unless otherwise indicated
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=661, 2=636, 22=1533.



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
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Date:

April 24, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878245
1757900	T09	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15 38 40 2019 Page 2
ID 9B5QRIZPhUL0yMYqzVn3hhzz67b-72tQcY5PpVp43ciHNdFvVUiatdxNE7SucLv0EzNSyJ

NOTES- (12)

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 99 lb up at 7-0-0, 106 lb down and 99 lb up at 9-0-12, 106 lb down and 99 lb up at 11-0-12, 106 lb down and 99 lb up at 13-0-12, 106 lb down and 99 lb up at 15-0-12, 106 lb down and 99 lb up at 17-0-12, 106 lb down and 99 lb up at 19-0-12, 106 lb down and 99 lb up at 21-0-12, 106 lb down and 99 lb up at 23-0-12, 106 lb down and 99 lb up at 25-0-12, 106 lb down and 99 lb up at 27-0-12, 106 lb down and 99 lb up at 29-0-12, 106 lb down and 99 lb up at 31-0-12, 106 lb down and 99 lb up at 33-0-12, 106 lb down and 99 lb up at 35-0-12, 106 lb down and 99 lb up at 37-0-12, and 109 lb down and 99 lb up at 39-0-12, and 135 lb down and 96 lb up at 39-11-4 on top chord, and 297 lb down and 258 lb up at 7-0-0, 90 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 25-0-12, 85 lb down at 27-0-12, 85 lb down at 29-0-12, 85 lb down at 31-0-12, 85 lb down at 33-0-12, 85 lb down at 35-0-12, and 85 lb down at 37-0-12, and 87 lb down at 39-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-13=-54, 2-14=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-106(F) 13=-135(F) 24=-293(F) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-106(F) 34=-106(F) 35=-106(F) 36=-106(F) 37=-106(F) 38=-106(F) 39=-106(F) 40=-106(F) 41=-109(F) 42=-61(F) 43=-61(F) 44=-61(F) 45=-61(F) 46=-61(F) 47=-61(F) 48=-61(F) 49=-61(F) 50=-61(F) 51=-61(F) 52=-61(F) 53=-61(F) 54=-61(F) 55=-61(F) 56=-61(F) 57=-62(F)

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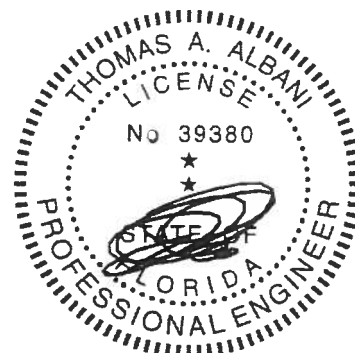
6904 Parke East Blvd.
Tampa, FL 36610

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15 38 41 2019 Page 1
ID 9B5QRtZpNUL0yMYqzVn3hhzz6?b=cERopt61a0xxhmHTwLmB1rXbH_76iOb7G5TZgzNSy/

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-8-13 oc purlins, except end verticals
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-8-0 oc bracing

BRACING- TOP CHORD	Structural wood sheathing directly applied or 4-8-13 oc purlins except end verticals
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing
WEBS	1 Row at midpt 5-18, 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, 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.
- 6) All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=254, 2=194, 18=643.
- 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.



April 24, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
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MII
MiTek
6904 Parke East Blvd
Tampa, FL 36610

Job 1757900	Truss T11	Truss Type Hip	Qty 1	Ply 1	GIEBEIG - LOT 37 MF	T16878247
Builders FirstSource, Jacksonville, FL - 32244,						Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15 38 42 2019 Page 1
ID 9B5QRIZPhUL0yMYqzVn3hhzz67b-4R?B1D6gL63olvsG2HNavz0OgLo7PIMwq057zNSyh



Scale = 1:70.9

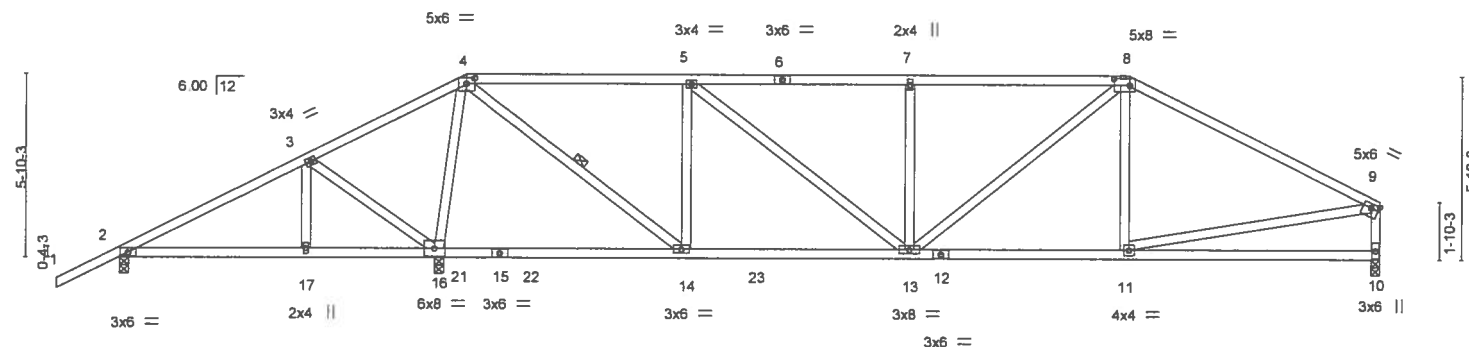


Plate Offsets (X,Y)-	5-11-0	10-1-12	18-0-2	25-0-14	32-1-0	40-1-0
	5-11-0	4-2-12	7-10-6	7-0-13	7-0-2	8-0-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.97	Vert(LL)	-0.11 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.23 10-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
									Weight: 221 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-14

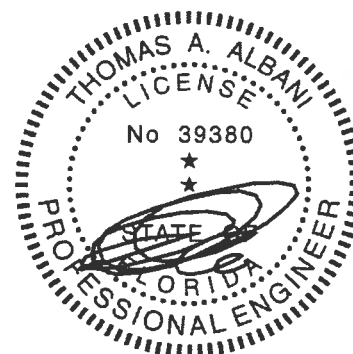
REACTIONS. (lb/size) 2=196/0-3-8, 16=1865/0-3-8, 10=1002/0-3-8
Max Horz 2=129(LC 12)
Max Uplift 2=90(LC 9), 16=548(LC 9), 10=198(LC 8)
Max Grav 2=213(LC 23), 16=1865(LC 1), 10=1012(LC 24)

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

TOP CHORD 2-3=-40/422, 3-4=-337/694, 4-5=-855/468, 5-7=-1288/710, 7-8=-1288/710,
8-9=-1293/609, 9-10=-936/510
BOT CHORD 2-17=-358/82, 16-17=-358/82, 14-16=-336/314, 13-14=-256/855, 11-13=-421/1069
WEBS 3-16=-428/604, 4-16=-1508/836, 4-14=-726/1468, 5-14=-756/503, 5-13=-308/568,
7-13=-404/288, 8-13=-130/362, 9-11=-320/943

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 16=548, 10=198.
- 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.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 24, 2019

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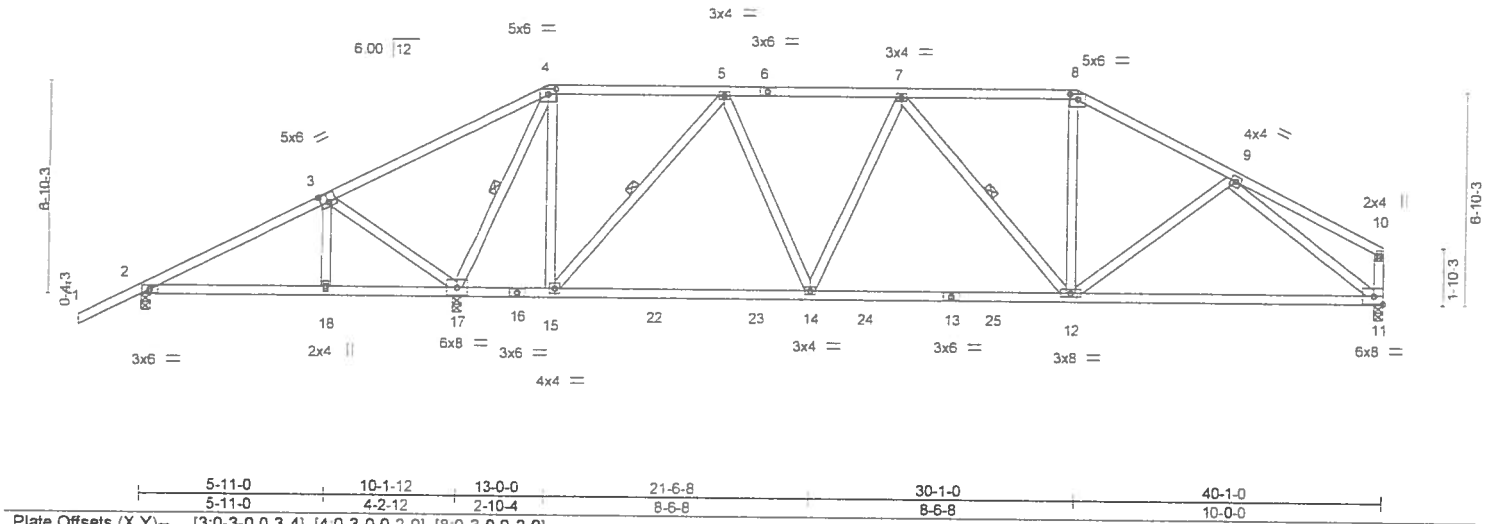
6904 Parke East Blvd.
Tampa, FL 33610

Job 1757900	Truss T12	Truss Type Hip	Qty 1	Ply 1	GIEBEIG - LOT 37 MF	T16878248
Builders FirstSource Jacksonville FL - 32244						Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15 38 43 2019 Page 1
ID 985QRIZPhUL0yMYqzVn3hhzz67b-YdZZEZ7I6QBfw3Rs2moc57WH54bTaZaubaaZdZzNSyg

-2-0-0	5-11-0	13-0-0	18-8-5	24-4-11	30-1-0	35-1-2	40-1-0
2-0-0	5-11-0	7-1-0	5-8-5	5-8-5	5-8-5	5-0-2	4-11-14

Scale = 1.72 1



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.58	Vert(LL)	-0.25 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT)	-0.52 11-12	>693	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.90	Horz(CT)	0.04 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-14 oc purliins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-17, 5-15, 7-12

REACTIONS. (lb/size) 2=267/0-3-8, 17=1771/0-3-8, 11=1025/0-3-8	
Max Horz 2=142(LC 12)	
Max Uplift 2=-102(LC 9), 17=-499(LC 9), 11=-190(LC 13)	
Max Grav 2=293(LC 23), 17=1771(LC 1), 11=1031(LC 24)	

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.	
TOP CHORD 3-4=-308/609, 5-7=-1020/564, 7-8=-1042/628, 8-9=-1226/641	
BOT CHORD 14-15=-225/816, 12-14=-391/1100, 11-12=-493/1018	
WEBS 3-17=-518/666, 4-17=-1553/799, 4-15=-341/918, 5-15=-974/527, 5-14=-183/520, 7-14=-284/234, 8-12=-73/320, 9-11=-1212/625	

- NOTES-** (8)
- 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 = 10.0psf
 - 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=102, 17=499, 11=190.
 - 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.



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April 24,2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878249
1757900	T13	Hip	1	1		

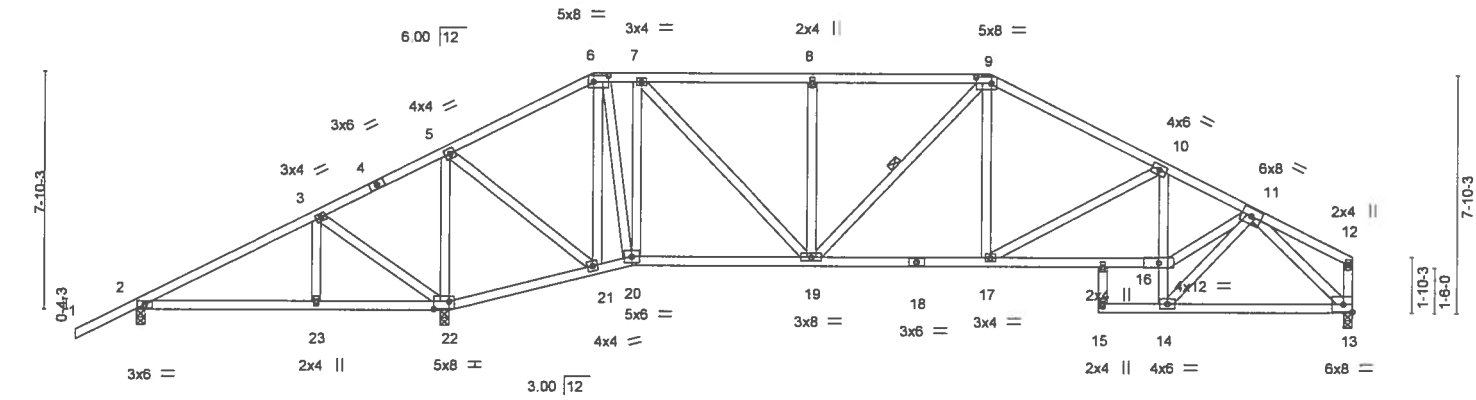
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15:38:45 2019 Page 1

ID 9B5QRIZPhUL0yMYqzVn3hhzz67b-U0gJfF9Ye1SM9NbF9Br4CYbgTuM92WNB2u3giRzNSye

2-0-0	5-11-0	10-3-8	15-0-0	16-3-8	22-2-4	28-1-0	33-8-0	36-8-12	40-1-0
2-0-0	5-11-0	4-4-8	4-8-8	1-3-8	5-10-12	5-10-12	5-7-0	3-0-12	3-4-4

Scale = 1.73 4



	5-11-0	10-1-12	10-3-8	15-0-0	16-3-8	22-2-4	28-1-0	31-8-0	33-8-0	40-1-0
	5-11-0	4-2-12	0-1-12	4-8-8	1-3-8	5-10-12	5-10-12	3-7-0	2-0-0	6-5-0

Plate Offsets (X,Y)-	[6:0-6-0,0-2-8], [9:0-6-0,0-2-8], [22:0-6-0,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.11 15	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.21 15	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.10 13	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
								Weight: 262 lb	FT = 20%	

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-14: 2x4 SP No.3		9-4-0 oc bracing: 14-16
WEBS 2x4 SP No.3	WEBS	1 Row at midpt 9-19

REACTIONS.	(lb/size)	2=153/0-3-8, 22=1944/0-3-8, 13=1009/0-3-8
	Max Horz	2=154(LC 12)
	Max Uplift	2=102(LC 24), 22=468(LC 9), 13=190(LC 13)
	Max Grav	2=214(LC 23), 22=1944(LC 1), 13=1009(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=54/498, 3-5=384/787, 5-6=364/200, 6-7=422/306, 7-8=997/595, 8-9=997/595, 9-10=1308/670, 10-11=1697/817
BOT CHORD	2-23=425/102, 22-23=425/102, 21-22=734/513, 20-21=24/251, 19-20=63/441, 17-19=344/1110, 16-17=641/1541, 14-16=344/924, 10-16=0/290, 13-14=403/870
WEBS	3-22=428/570, 5-22=1457/776, 5-21=513/1218, 6-21=868/427, 6-20=402/907, 7-20=815/444, 7-19=406/809, 8-19=355/261, 9-17=134/457, 10-17=499/340, 11-16=655/1609, 11-14=1118/519, 11-13=1187/559

- NOTES- (8)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Show adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=102, 22=468, 13=190.
 - 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.



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Date:

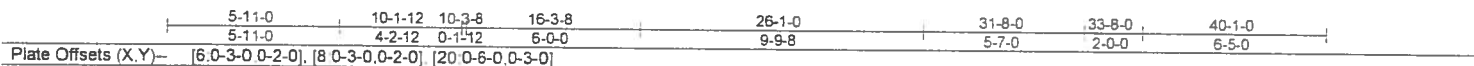
April 24,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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8 240 s Dec 6 2018 MiTek Industries Inc. Wed Apr 24 15 38 46 2019 Page 1
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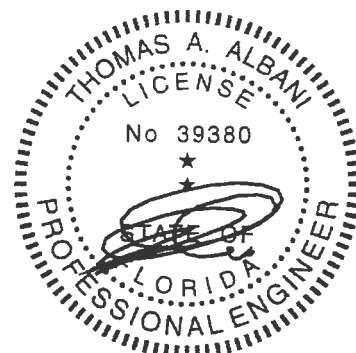


LUMBER-		BRACING-	
TOP CHORD	2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP No 2 "Except"		
	10-14 2x4 SP No 3	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
WEBS	2x4 SP No 3		9-1-0 oc bracing 14-16
		WEBS	1 Row at midpt. 7-19

BRACING- TOP CHORD	Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except 9-1-0 oc bracing. 14-16	
WEBS	1 Row at midpt	7-19

NOTES- (8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDF=4.2psf; BCDF=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 BCDF= 10.0psf.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=107, 20=419, 13=199.
- 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 TP1 as referenced by the building code.



April 24, 2019

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6904 Parke East Blvd
Tampa, FL 36610

Job 1757900	Truss T15	Truss Type Roof Special	Qty 1	Ply 1	GIEBEIG - LOT 37 MF	T16878251
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Builders FirstSource, Jacksonville, FL - 32244

8.240 s Dec 6 2018 MITek Industries, Inc Wed Apr 24 15:38:47 2019 Page 1

ID 9B5QRtZPhUL0yMYqzVn3hhzz67b-Q0o34xAoAei4PhldHctYHzydhzGWSHUVCYnmKzNSyc

6-3-8	10-0-10	15-0-8	16-10-8	19-10-8	24-11-15	30-1-0	32-1-0
6-3-8	3-9-2	4-11-13	1-10-0	3-0-0	5-1-7	5-1-1	2-0-0

Scale = 1:57.1

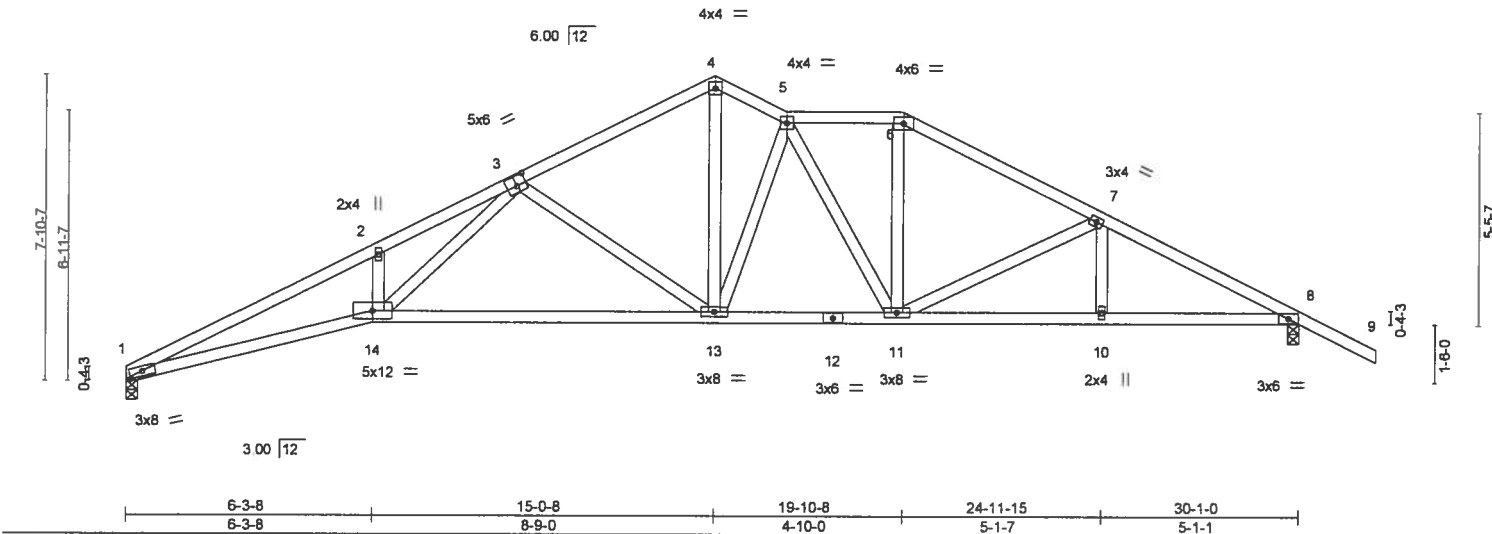


Plate Offsets (X,Y)-- [1:0-4-0,0-1-9], [3:0-3-0,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		I/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.28 13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.64 13-14	>566	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.21 8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS						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 2-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-4-13 oc bracing.

REACTIONS.

(lb/size) 1=1109/0-3-8, 8=1225/0-3-8
Max Horz 1=111(LC 12)
Max Uplift 1=233(LC 12), 8=273(LC 13)

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

TOP CHORD 1-2=-3752/1922, 2-3=-3724/2072, 3-4=-1636/923, 4-5=-1564/941, 5-6=-1464/898,
6-7=-1689/936, 7-8=-2105/1087
BOT CHORD 1-14=-1700/3402, 13-14=-1001/2102, 11-13=-637/1590, 10-11=-847/1837,
8-10=-847/1837
WEBS 2-14=-221/264, 3-14=-922/1669, 3-13=-845/592, 4-13=-637/1167, 5-13=-554/372,
5-11=-290/126, 6-11=-227/494, 7-11=-438/310

NOTES- (9)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=233, 8=273.
- 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.



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April 24,2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



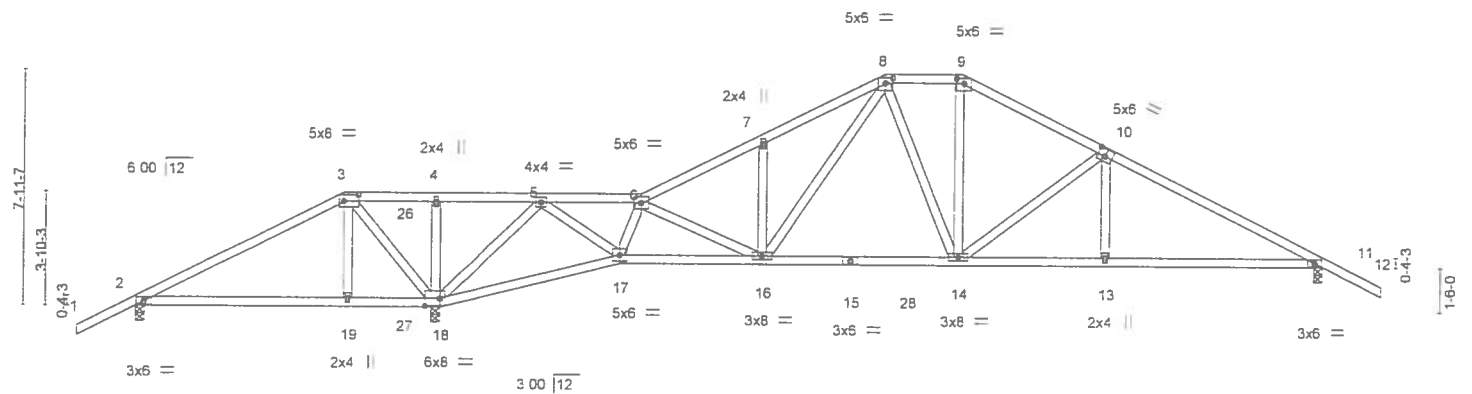
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5-240's Dec 6 2018 MITEK Industries, Inc Wed Apr 24 15:38:48 2019 Page 1
ID: 9B5QRIZPhUL0yMYqzVn3nhzz6?b=ubMSHHBQxyq0xJprJONpAD7d50oFubdksHKJmzNSyb

2-0-0	7-0-0	10-3-8	13-7-12	17-0-0	21-1-4	25-2-8	27-10-8	32-8-8	40-1-0	42-1-0
2-0-0	7-0-0	3-3-8	3-4-4	3-4-4	4-1-4	4-1-4	2-8-0	4-10-0	7-4-8	2-0-0

Scale = 1:75.4



	7-0-0	10-1-12 10-3-8	16-3-8	21-1-4	27-10-8	32-8-8	40-1-0
Plate Offsets (X,Y)→	7-0-0	3-1-12 0-1-12	6-0-0	4-9-12	6-9-4	4-10-0	7-4-8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	0.12 19-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.20 13-25	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.05 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight 217 lb	FT = 20%

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

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 3-11-4 oc purlins
BOT CHORD	Rigid ceiling directly applied or 5-0-0 oc bracing

REACTIONS. (lb/size) 2=108/0-3-8, 18=2611/0-3-8, 11=1029/0-3-8
Max Horz 2=140(LC 8)
Max Uplift 2=267(LC 7), 18=758(LC 8), 11=238(LC 28)
Max Grav 2=175(LC 19), 18=2611(LC 1), 11=1029(LC 1)

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

TOP CHORD 2-3=400/969, 3-4=323/1504, 4-5=328/514, 5-6=474/167, 6-7=1188/260,
7-8=1204/348, 8-9=925/258, 9-10=1103/261, 10-11=1568/327

BOT CHORD 2-19=831/367, 18-19=835/378, 17-18=630/193, 16-17=209/731, 14-16=100/875,
13-14=189/1337, 11-13=189/1336

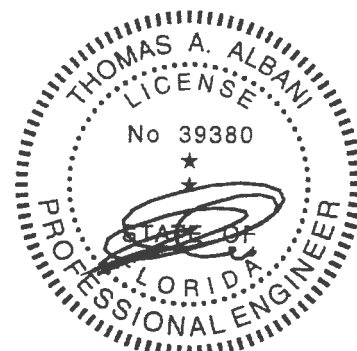
WEBS 3-19=316/582, 3-18=1540/578, 4-18=255/144, 5-18=1337/341, 5-17=237/1294,
6-17=893/208, 6-16=46/346, 7-16=258/162, 8-16=162/323, 9-14=66/307,
10-14=524/207, 10-13=0/259

NOTES- (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., GCp=0.18, MMFRS (envelope); porch left exposed, 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 = 10.0psf.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=267, 18=758, 11=238.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 99 lb up at 7-0-0, and 146 lb down and 99 lb up at 9-0-12 on top chord, and 297 lb down and 258 lb up at 7-0-0, and 90 lb down at 9-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25. Plate Increase=1.25



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Continued on page 2

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Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878252
1757900	T16	Roof Special Girder	1	1	Job Reference (optional)	

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8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15:38:48 2019 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-6=-54, 6-8=-54, 8-9=-54, 9-12=-54, 18-20=-20, 17-18=-20, 17-23=-20

Concentrated Loads (lb)

Vert: 3=-106(B) 19=-293(B) 26=-106(B) 27=-61(B)



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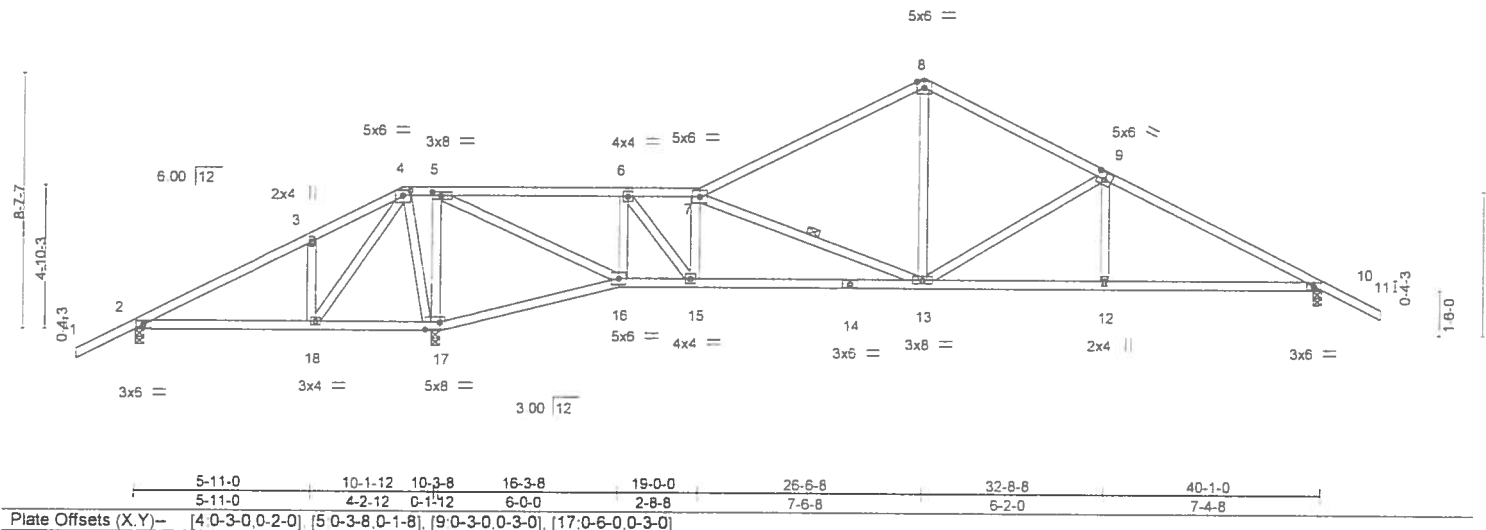
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878253
1757900	T17	Roof Special	1	1	Job Reference (optional)	

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8.240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:49 2019 Page 1
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Scale = 1:75.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.84	Vert(LL)	-0.11	13-15	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.24	13-15	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.03	10	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight 217 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-10-0 oc bracing.
WEBS 1 Row at midpt 7-13

REACTIONS:

(lb/size) 2=-82/0-3-8, 17=2251/0-3-8, 10=1013/0-3-8
Max Horz 2=148(LC 12)
Max Uplift 2=-197(LC 11), 17=-531(LC 12), 10=-238(LC 13)
Max Grav 2=11(LC 23), 17=2251(LC 1), 10=1013(LC 1)

FORCES:

(lb) - Max Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-247/933, 3-4=-120/869, 4-5=-557/1256, 6-7=-857/488, 7-8=-1006/571,
8-9=-998/595, 9-10=-1536/787
BOT CHORD 2-18=-769/259, 17-18=-1057/633, 16-17=-1347/824, 13-15=-292/888, 12-13=-545/1309,
10-12=-545/1308
WEBS 3-18=-293/326, 4-18=-687/513, 4-17=-732/521, 5-17=-1128/643, 5-16=-779/1659,
6-16=-998/567, 6-15=-534/993, 7-15=-660/455, 8-13=-208/515, 9-13=-592/415,
9-12=0/275

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCCL=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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
2=197, 17=531, 10=238
- 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.



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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878254
1757900	T18	Roof Special	1	1		

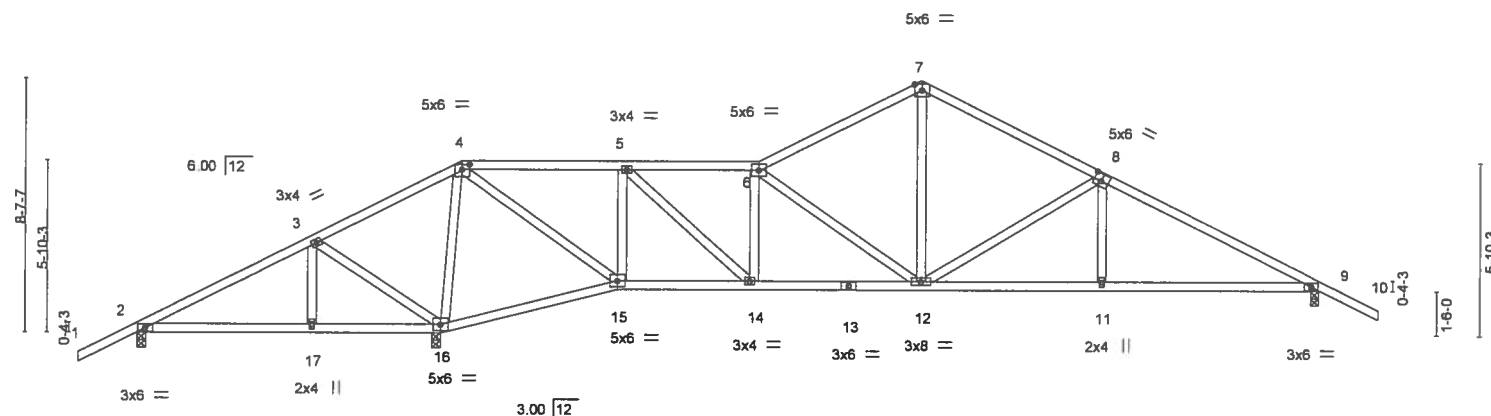
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:50 2019 Page 1

ID 9B5QRiZPhUL0yMYqzVn3hhzz67b-rzUCiyDhSZ4fG8TCykQFvbJVxv4BjkqwCAmRNfzNSyZ

-2-0-0	5-11-0	11-0-0	16-3-8	21-0-0	26-6-8	32-8-8	40-1-0	42-1-0
2-0-0	5-11-0	5-1-0	5-3-8	4-8-8	5-6-8	6-2-0	7-4-8	2-0-0

Scale = 1:75.4



	5-11-0	10-1-12	10-3-8	16-3-8	21-0-0	26-6-8	32-8-8	40-1-0
	5-11-0	4-2-12	0-1-12	6-0-0	4-8-8	5-6-8	6-2-0	7-4-8

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.54	Vert(LL)	-0.08	11-23	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.19	11-23	>999	180	
BCLL 0.0	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.04	9	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 215 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 4-0-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

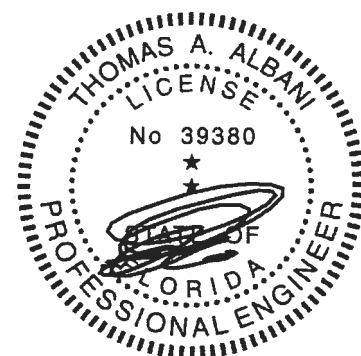
(lb/size) 2=9/0-3-8, 16=2152/0-3-8, 9=1038/0-3-8
Max Horz 2=148(LC 12)
Max Uplift 2=168(LC 11), 16=506(LC 12), 9=242(LC 13)
Max Grav 2=83(LC 23), 16=2152(LC 1), 9=1038(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=172/765, 3-4=534/1171, 4-5=310/211, 5-6=1032/594, 6-7=1024/606,
7-8=1046/611, 8-9=1596/808
BOT CHORD 2-17=621/184, 16-17=621/184, 15-16=835/605, 14-15=59/338, 12-14=340/1052,
11-12=564/1364, 9-11=564/1363
WEBS 3-16=465/618, 4-16=1608/831, 4-15=634/1384, 5-15=938/561, 5-14=502/944,
6-14=538/371, 6-12=315/182, 7-12=281/557, 8-12=601/425, 8-11=0/289

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=168, 16=506, 9=242.
- 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.



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 24, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

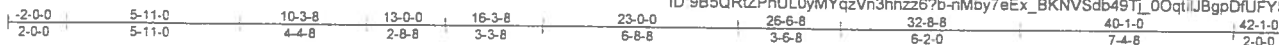
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



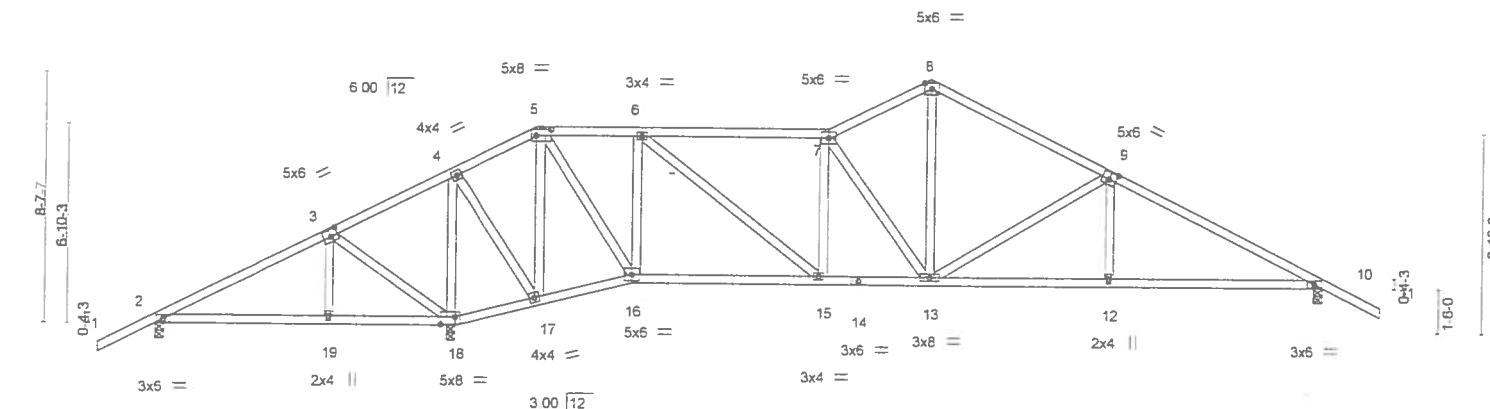
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Builders FirstSource Jacksonville FL - 32244

8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15 38 52 2019 Page 1
ID 9B5QRtZPhUL0yMYqzVn3hhzz6?b-nMby7eEx_BKNVSdb49Tj_0OQtJlBgpDfUFYSXzNSyX



Scale = 1.767



	5-1'-0"	10-1'-12"	10-8'-8"	13-0'-0"	15-3'-8"	23-0'-0"	26-6'-8"	32'-8"	40-1'-0"
Plate Offsets (X,Y)→	5-11'-0"	4-2'-12"	0-1'-12"	2-8'-8"	3-3'-8"	6-6'-8"	3-6'-8"	6-2'-0"	7'-4'-8"
	[3-0-3-0, 0-0-3-0]	[5-0-6-0, 0-2-8-0]	[9-0-3-0, 0-3-0-0]	[18-0-6-0, 0-3-0-0]					

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	-0.08 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.19 15-16	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 234 lb	FT = 20%

LUMBER-

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

BRACING.

TOP CHORD	Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(b/size) 2=93/0-3-8, 18=2015/0-3-8, 10=1074/0-3-8
Max Horz 2=148(LC 12)
Max Uplift 2=-129(LC 9), 18=-478(LC 12), 10=-246(LC 13)
Max Grav 2=172(LC 23), 18=2015(LC 1), 10=1074(LC 1)

FORCES. (1)

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

2-3=-131/545, 3-4=-422/923, 5-6=-419/298, 6-7=-1118/656, 7-8=-1072/659,
8-9=-1117/639, 9-10=-1676/838

2-19=-460/143, 18-19=-460/143, 17-18=-864/619, 16-17=-196/344, 15-16=-69/445,
13-15=-349/1130, 12-13=-592/1436, 10-12=-592/1435

3-18=-443/584, 4-18=-1496/762, 4-17=-508/1195, 5-17=-1099/516, 5-16=-516/1106
6-16=-873/537, 6-15=-447/857, 7-15=-416/311, 7-13=-414/224, 8-13=-371/685,
9-13=-606/411, 9-12=-0/300

NOTES- (8)

- 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., GCpf=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.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 18=478, 10=246.
- 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.



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Date:

April 24, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI-1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

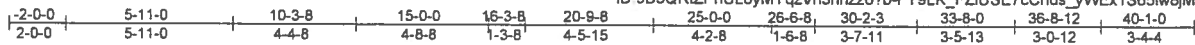
MiTek

5904 Parke East Blvd
Tampa, FL 35610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878256
1757900	T20	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:53 2019 Page 1
ID 9B5QRIZPhUL0yMYqzVn3hhzz67b-FY9LK_FZIU5E7cCnds_yWEx1S65w8jMu875_zNSyW



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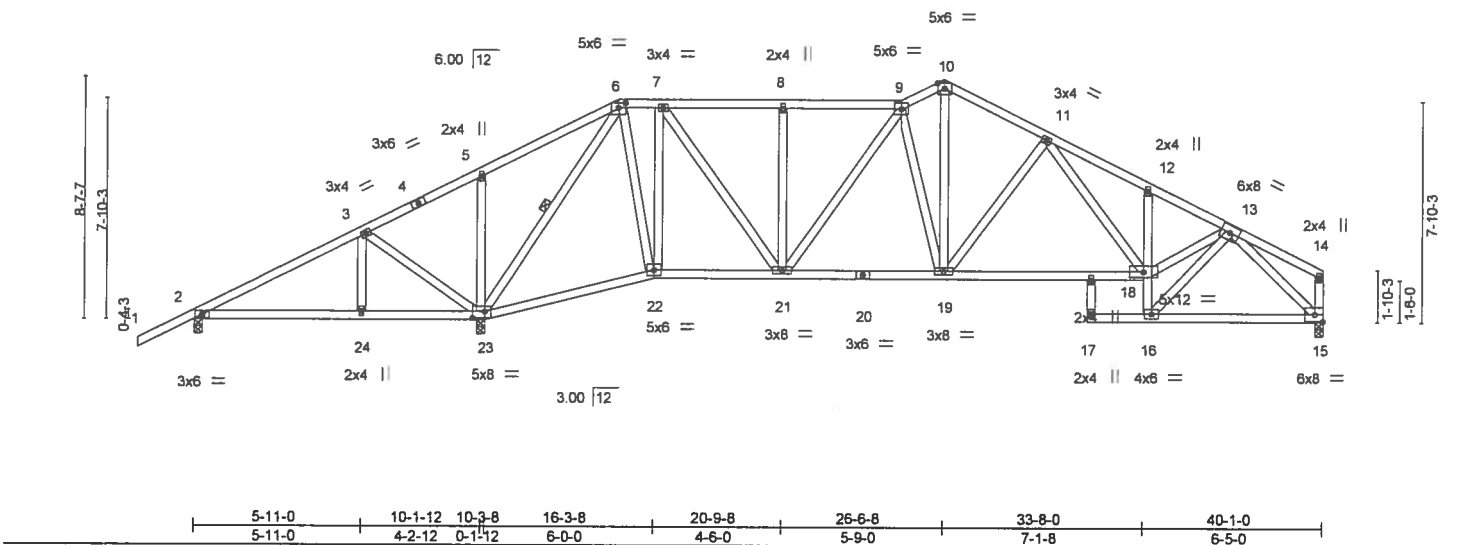


Plate Offsets (X,Y)--		[6:0-3-0,0-2-0], [23:0-5-4,0-2-12]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.40	Vert(LL)	-0.11 18-19 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.58	Vert(CT)	-0.26 18-19 >999	180	
BCLL	0.0	Rep Stress Incr YES		WB	0.73	Horz(CT)	0.11 15 n/a	n/a	
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS					
								Weight: 273 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
12-16: 2x4 SP No.3	9-2-0 oc bracing: 16-18
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-23
REACTIONS. (lb/size) 2=132/0-3-8, 23=1972/0-3-8, 15=1002/0-3-8	
Max Horz 2=164(LC 12)	
Max Uplift 2=120(LC 9), 23=474(LC 12), 15=193(LC 13)	
Max Grav 2=209(LC 23), 23=1972(LC 1), 15=1002(LC 1)	

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

TOP CHORD 2-3=-131/466, 3-5=-443/828, 5-6=-315/842, 6-7=-389/269, 7-8=-865/520, 8-9=-865/520, 9-10=-1097/658, 10-11=-1139/644, 11-12=-1749/920, 12-13=-1711/816

BOT CHORD 2-24=-406/138, 23-24=-406/138, 21-22=-44/407, 19-21=-312/1057, 18-19=-453/1229, 16-18=-358/946, 15-16=-406/868

WEBS 3-23=-418/571, 5-23=-248/269, 6-23=-1697/762, 6-22=-369/936, 7-22=-763/426, 7-21=-412/785, 8-21=-270/204, 9-21=-342/196, 9-19=-375/230, 10-19=-453/815, 11-19=-435/336, 11-18=-263/513, 13-18=-647/1626, 13-16=-1149/538, 13-15=-1186/567

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=120, 23=474, 15=193.
- 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.



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Date:

April 24, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

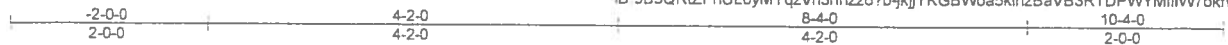
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 37 MF	T16878257
1757900	T22	Common	2	1		
Builders FirstSource Jacksonville, FL - 32244						Job Reference (optional)

8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15:38:54 2019 Page 1
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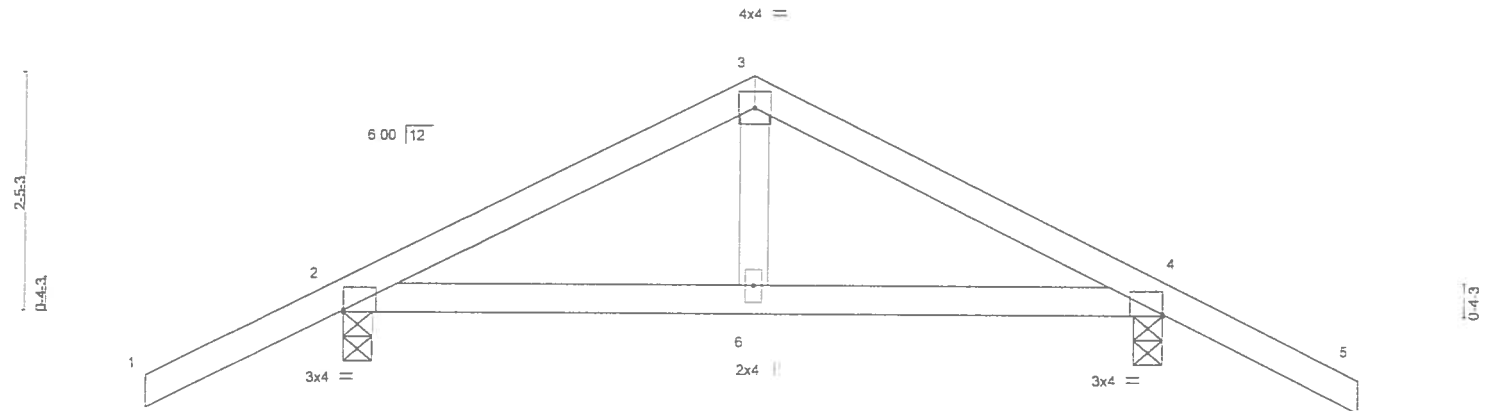


Plate Offsets (X,Y) - [2:Edge,0-0-4], [4:Edge,0-0-4]		4-2-0		8-4-0		4-2-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	0.02 6-12	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	0.02 6-12	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00 4	n/a	n/a
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS				
				PLATES	GRIP		
				MT20	244/190		
				Weight	36 lb FT = 20%		

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-9-6 oc bracing
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) 2=416/0-3-8, 4=416/0-3-8
Max Horz 2=65(LC 13)
Max Uplift 2=188(LC 12), 4=188(LC 13)

FORCES. (lb) - Max Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-363/545, 3-4=-363/545
BOT CHORD 2-6=-344/284, 4-6=-344/284
WEBS 3-6=-265/177

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=188, 4=188.
 - 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.



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Date:

April 24,2019

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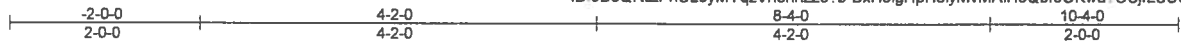
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6904 Parke East Blvd
Tampa, FL 33610

Job 1757900	Truss T22G	Truss Type GABLE	Qty 1	Ply 1	GIEBEIG - LOT 37 MF	T16878258
Builders FirstSource, Jacksonville, FL - 32244						Job Reference (optional)

8 240 s Dec 6 2018 MiTek Industries, Inc. Wed Apr 24 15:38:55 2019 Page 1
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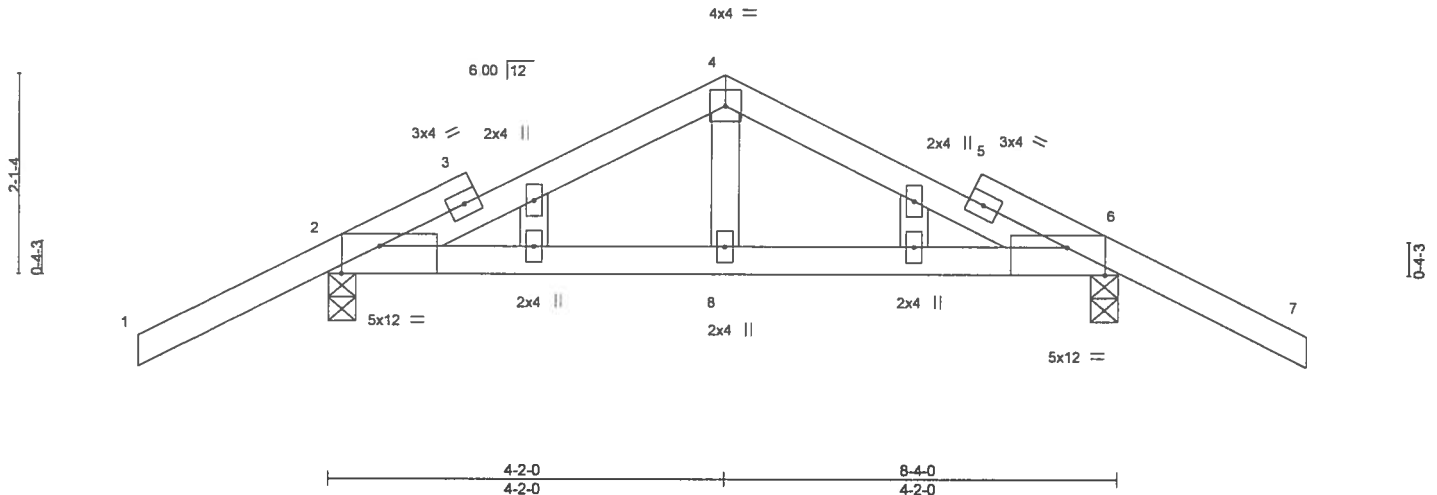


Plate Offsets (X,Y)– [2:0-4-13,Edge], [6:0-4-13,Edge]																	
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.03	8-19	>999	240					MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	8	>999	180							
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	6	n/a	n/a							
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS											Weight: 40 lb	FT = 20%	

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-15 oc bracing.

REACTIONS. (lb/size) 2=413/0-3-8, 6=413/0-3-8
Max Horz 2=58(LC 12)
Max Uplift 2=191(LC 12), 6=191(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=313/506, 4-6=313/504
BOT CHORD 2-8=523/351, 6-8=523/351

NOTES- (9)

- Unbalanced roof live loads have been considered for this design.
- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=191, 6=191.
- 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.



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Date:

April 24, 2019

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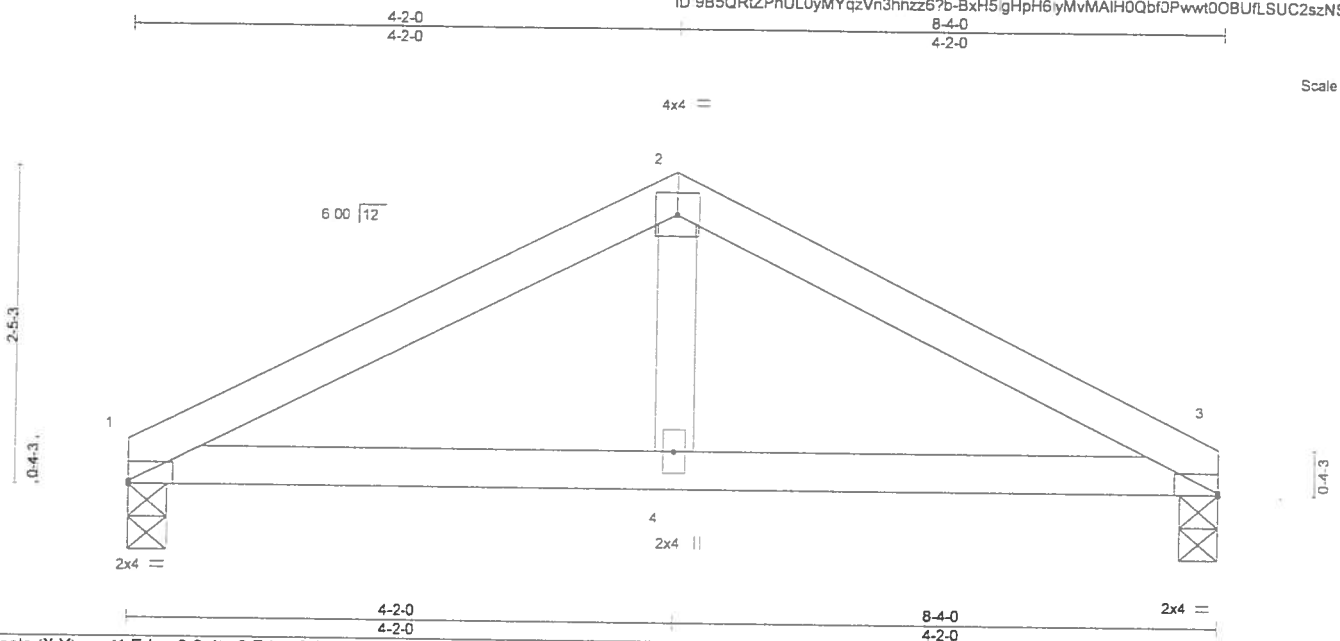


6904 Parke East Blvd.
Tampa, FL 33610

Job 1757900	Truss T23	Truss Type COMMON	Qty 2	Ply 1	GIEBEIG - LOT 37 MF	T16878259
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Builders FirstSource Jacksonville, FL - 32244

8 240 s Dec 6 2018 MiTek Industries, Inc Wed Apr 24 15 38 55 2019 Page 1
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Scale = 1/16" = 1'-0"

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

LOADING (psf)	SPACING	CSI	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.21	Vert(CT)	-0.02	4-7	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.07	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS							
								Weight 29 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-9 oc bracing.

REACTIONS.

(lb/size) 1=308/0-3-8, 3=308/0-3-8
Max Horz 1=28(LC 8)
Max Uplift 1=120(LC 9), 3=120(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-426/651, 2-3=-426/651
BOT CHORD 1-4=-508/354, 3-4=-508/354
WEBS 2-4=-328/188

NOTES- (7)

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=120, 3=120.
- 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.



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Date:

April 24, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev. 10/03/2015 BEFORE USE.

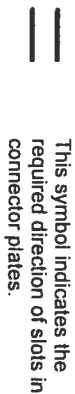
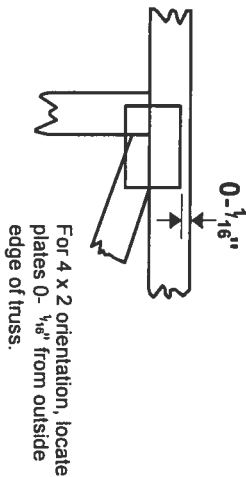
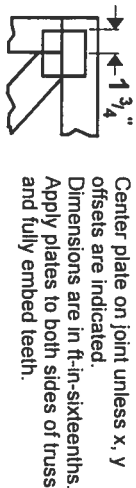
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-88 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

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Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

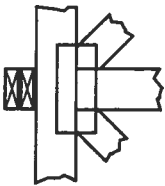
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

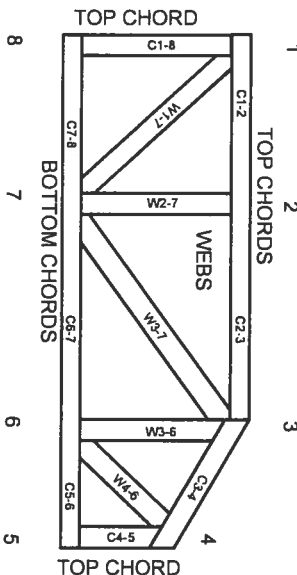


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practices for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

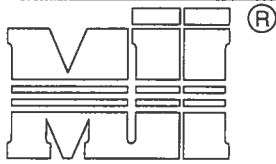
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never slack 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.

AUGUST 1, 2016

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.
ENGINEERED BY
TRENCO
A MiTek Affiliate

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 (0.131" X 3")	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

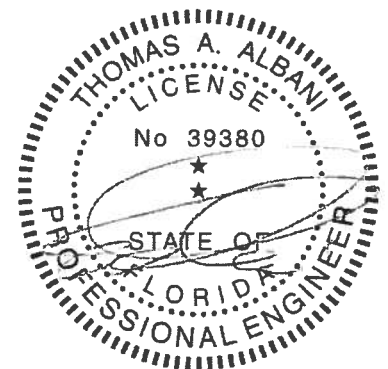
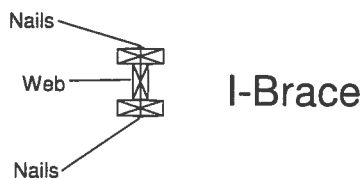
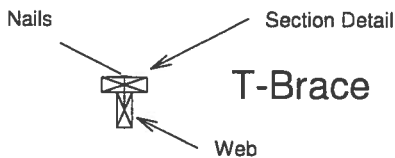
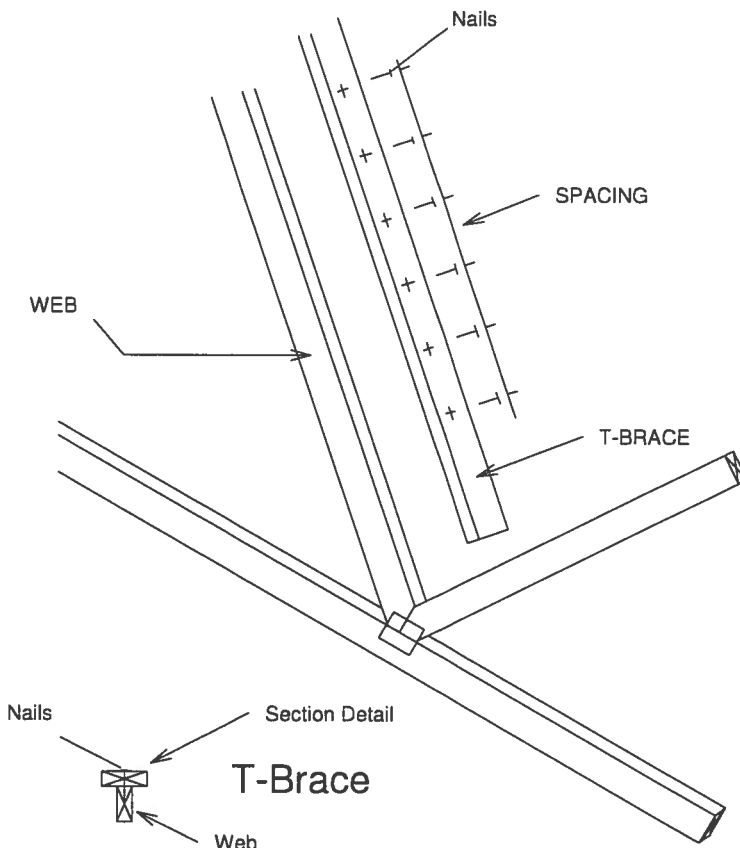
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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.



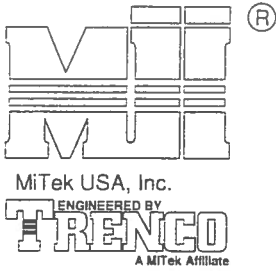
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Date:

February 12, 2018

AUGUST 1, 2016

SCAB-BRACE DETAIL

MII-SCAB-BRACE



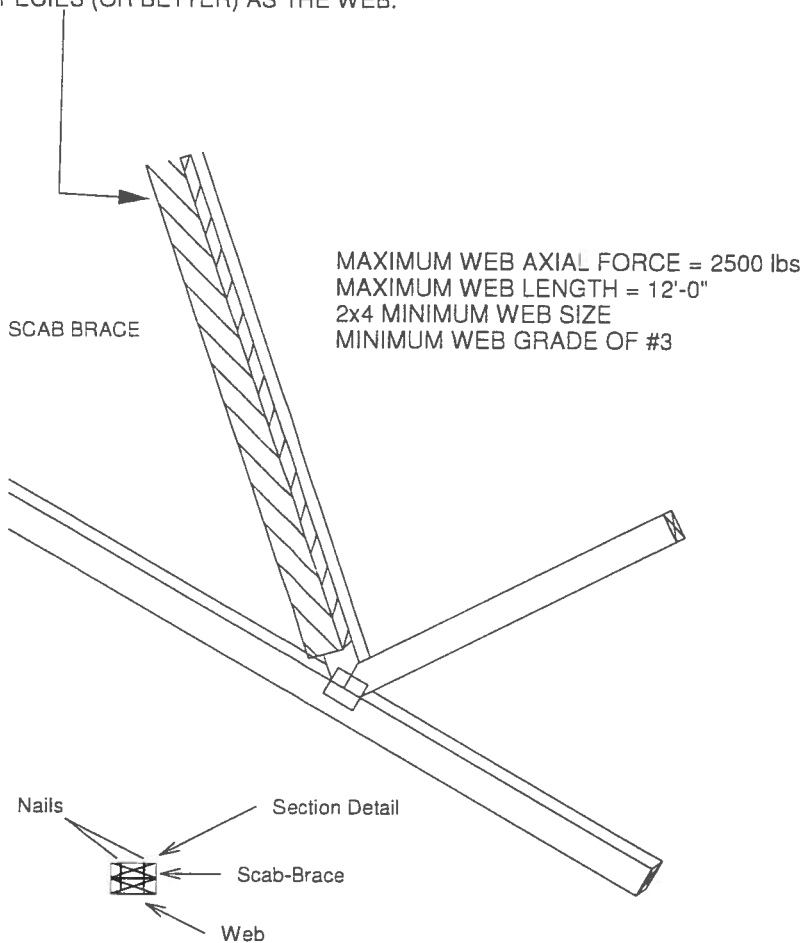
MiTek USA, Inc.

Page 1 of 1

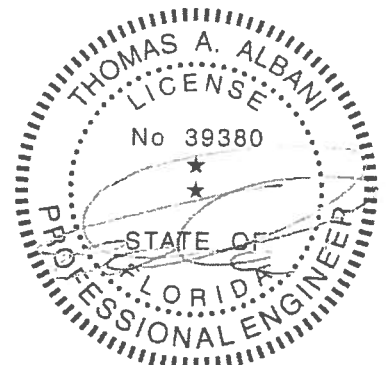
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APLICABLE WHEN BRACING IS ***
REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x___ SCAB TO ONE FACE OF WEB WITH
2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
SCAB MUST BE THE SAME GRADE, SIZE AND
SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



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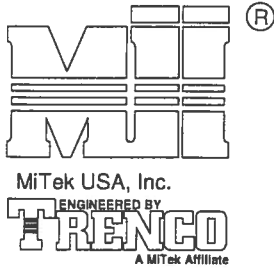
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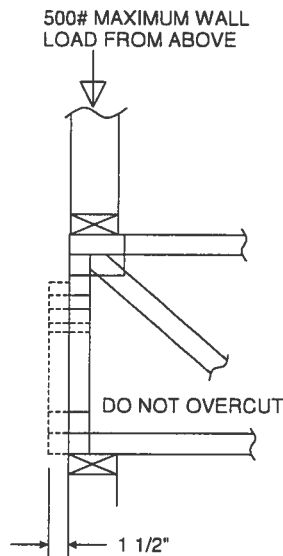
STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

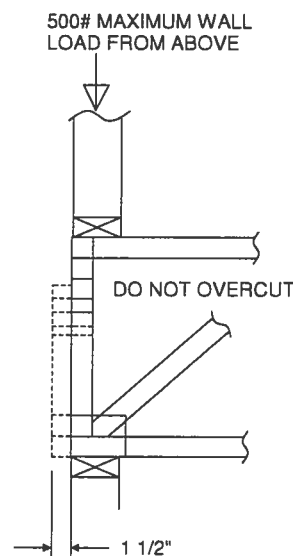
MiTek USA, Inc. Page 1 of 1



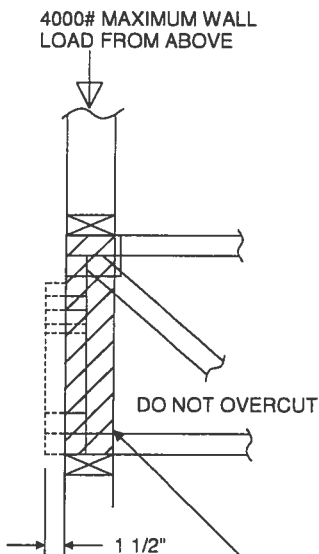
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



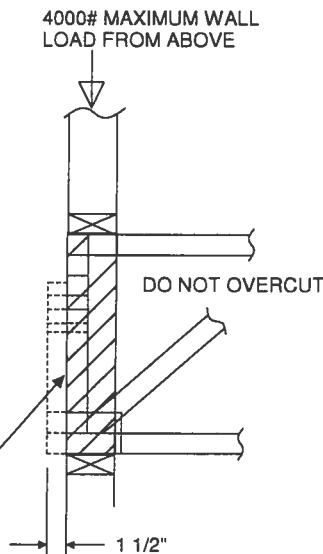
REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



TRUSSES BUILT WITH 4x2 MEMBERS

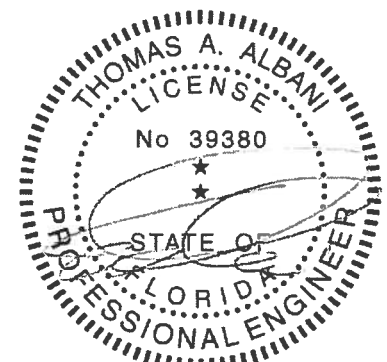


REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



TRUSSES BUILT WITH 4x2 MEMBERS

ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY) TO BOTH SIDES OF THE TRUSS AS SHOWN WITH 10d (0.131" X 3") NAILS SPACED 3" O.C.



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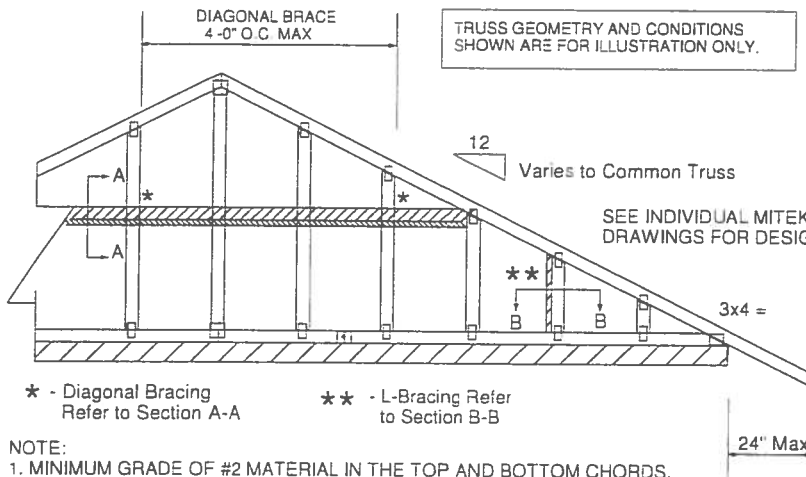
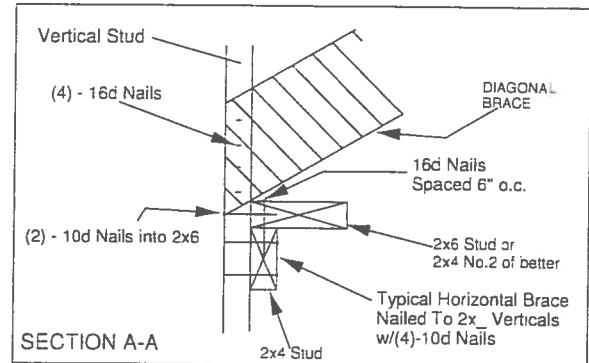
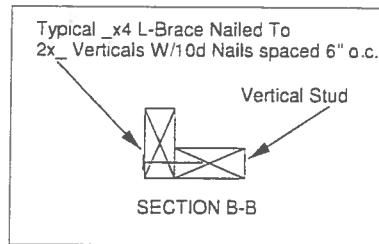
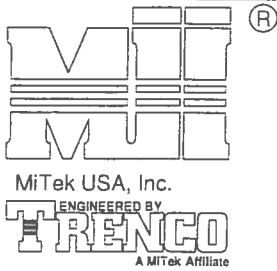
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

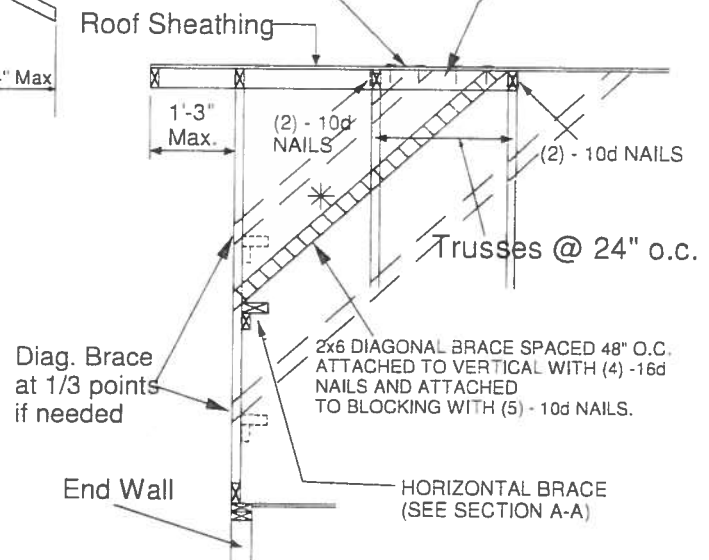
MII-GE130-D-SP

MiTek USA, Inc. Page 1 of 2



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

NOTE:

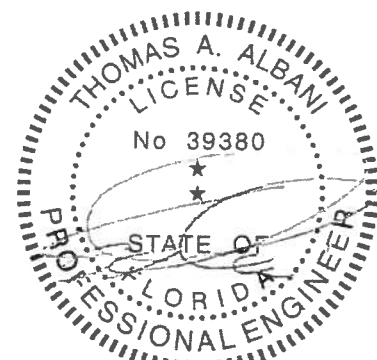
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Maximum Stud Length				
		Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE D
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



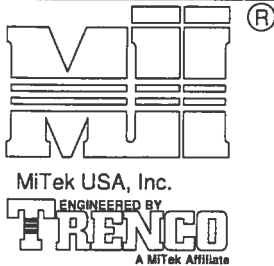
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Date:

February 12, 2018

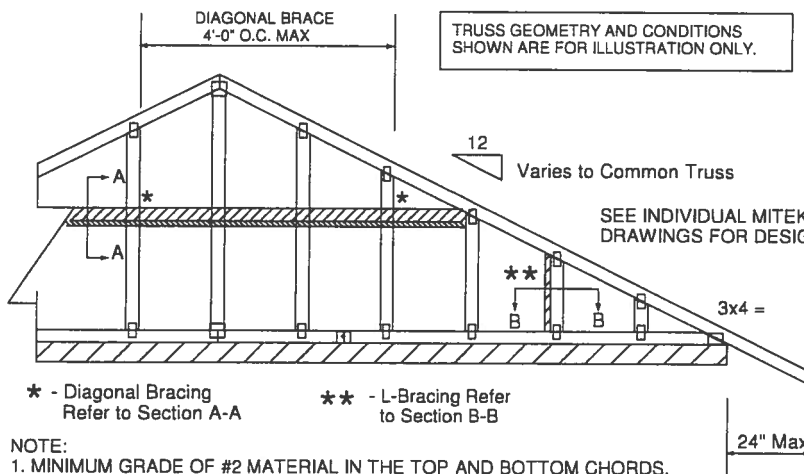
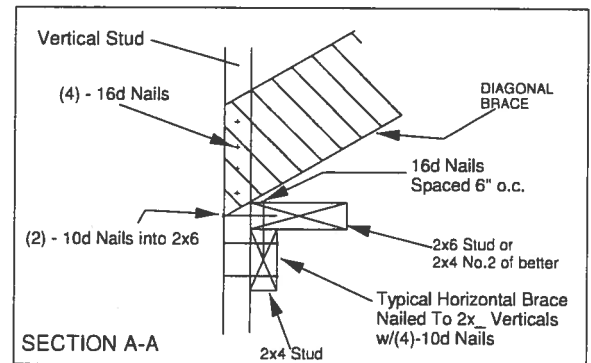
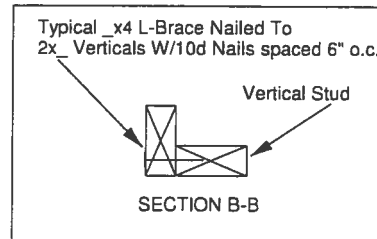
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Standard Gable End Detail

MII-GE130-SP



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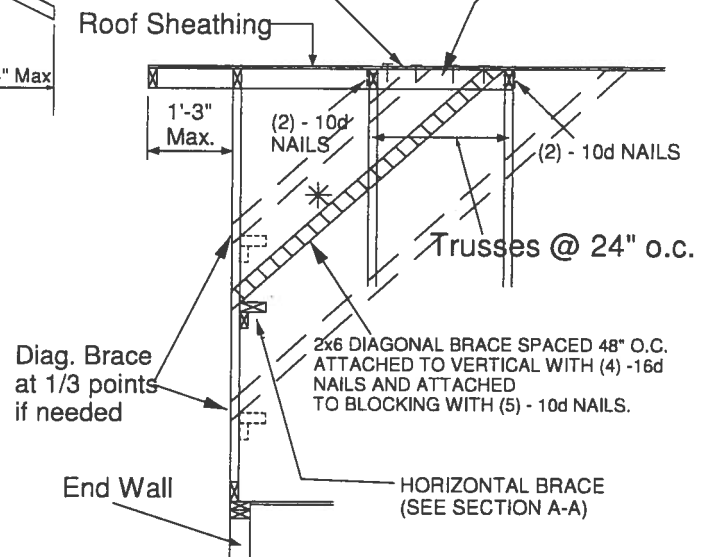


NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS $L/240$.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

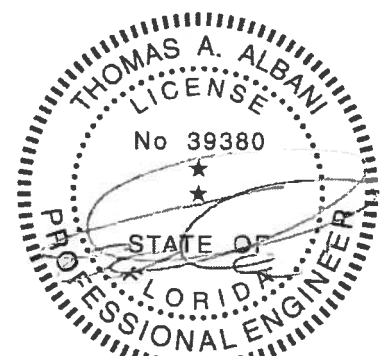


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
			Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



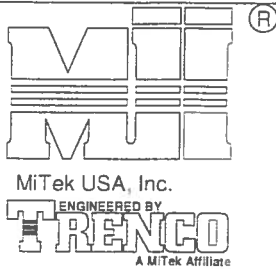
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6904 Parke East Blvd. Tampa FL 33610
Date:

February 12, 2018

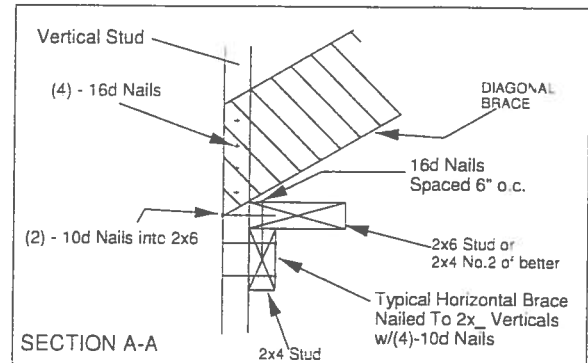
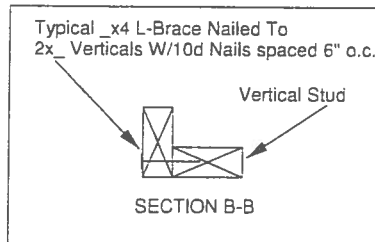
JANUARY 6, 2017

Standard Gable End Detail

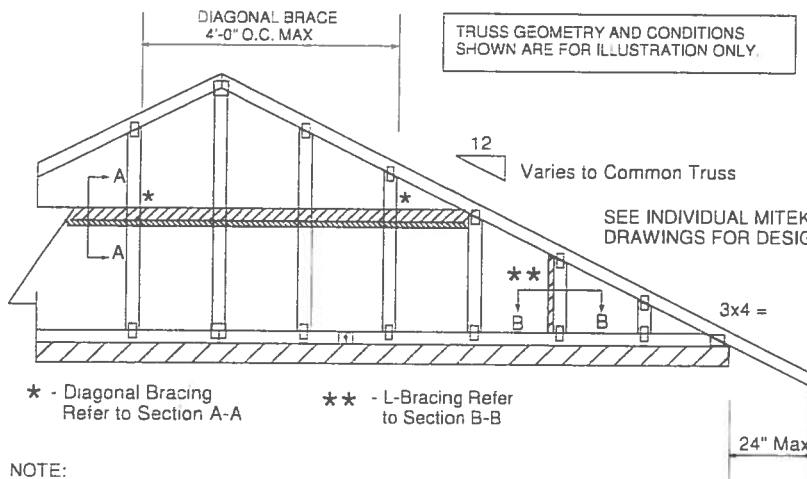
MII-GE140-001



MiTek USA, Inc. Page 1 of 2



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

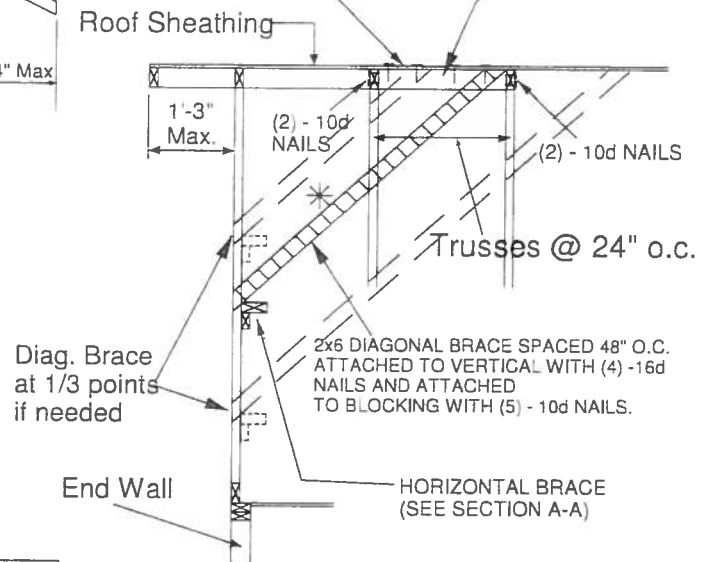


NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK

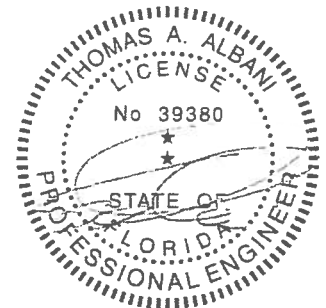


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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Date:

January 19, 2018

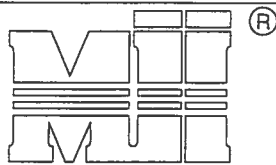
AUGUST 1, 2016

Standard Gable End Detail

MII-GE170-D-SP

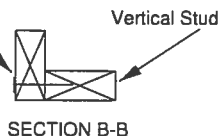
MiTek USA, Inc.

Page 1 of 2



MiTek USA, Inc.
ENGINEERED BY
TRENCO
A MiTek Affiliate

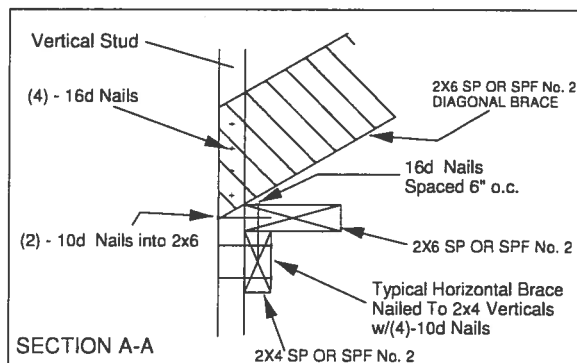
Typical 2x4 L-Brace Nailed To
2x4 Verticals W/10d Nails spaced 6" o.c.



TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

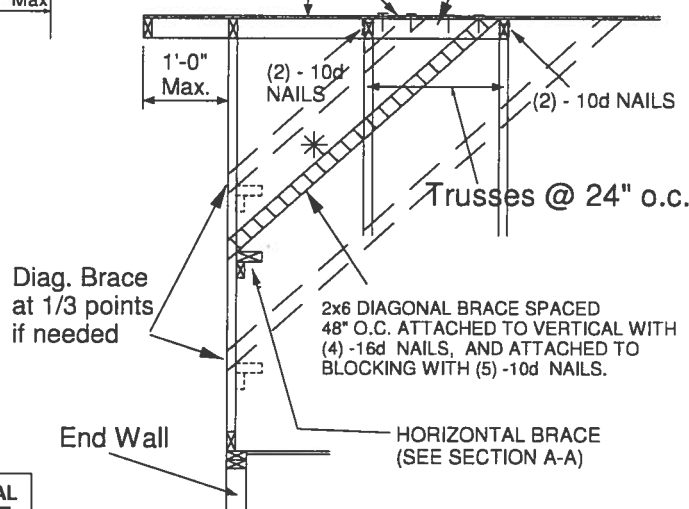
SEE INDIVIDUAL MITTEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST
TWO TRUSSES AS NOTED. TOENAIL BLOCKING
TO TRUSSES WITH (2) - 10d NAILS AT EACH END.
ATTACH DIAGONAL BRACE TO BLOCKING WITH
(5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD
SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing



* - Diagonal Bracing
Refer to Section A-A

** - L-Bracing Refer
to Section B-B

NOTE:

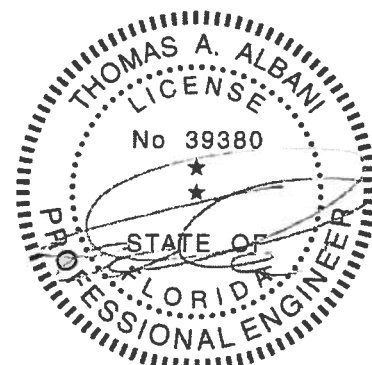
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or l braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 170 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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6904 Parke East Blvd. Tampa FL 33610
Date:

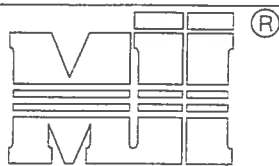
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE180-D-SP

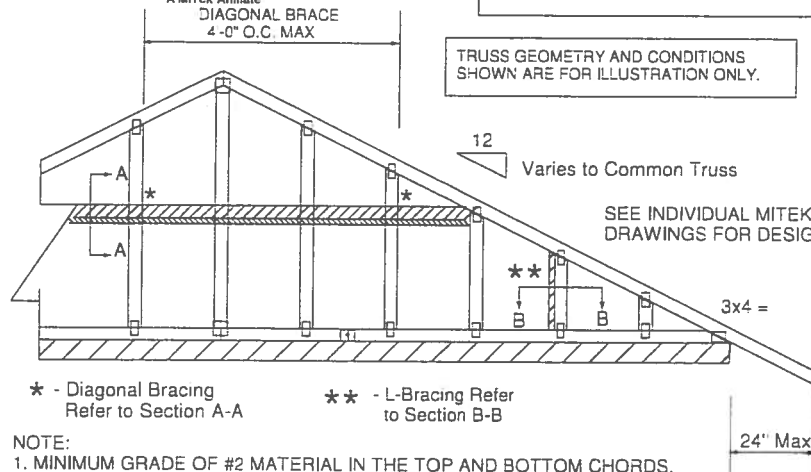
MiTek USA, Inc. Page 1 of 2



MiTek USA, Inc.

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DIAGONAL BRACE
4'-0" O.C. MAX* - Diagonal Bracing
Refer to Section A-A** - L-Bracing Refer
to Section B-B

NOTE:

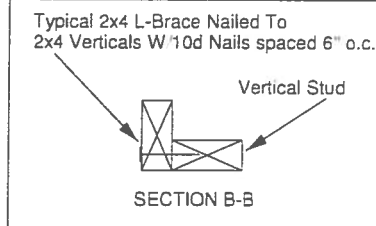
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

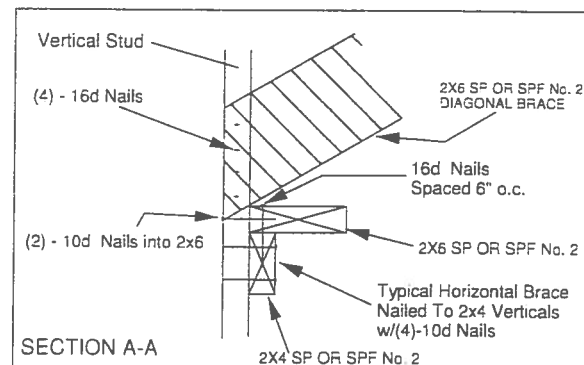
- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or l braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 180 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

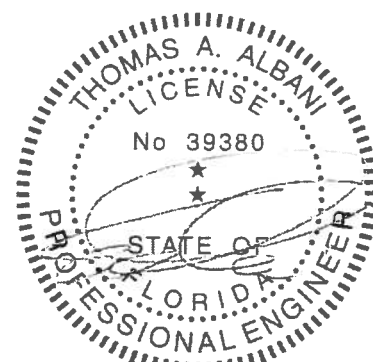
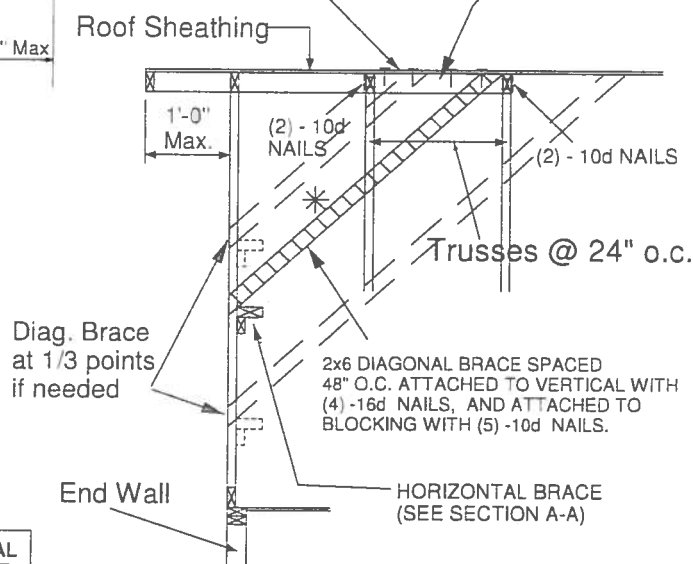
TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



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Date:

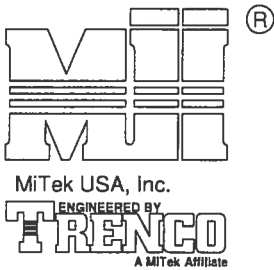
February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

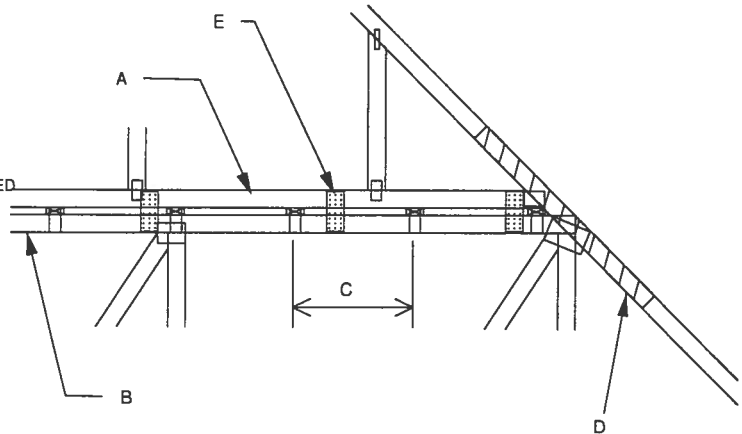
MII-PIGGY-7-10

MiTek USA, Inc. Page 1 of 1



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.

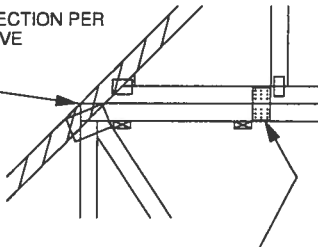
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X $\frac{1}{2}$ " X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, 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") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



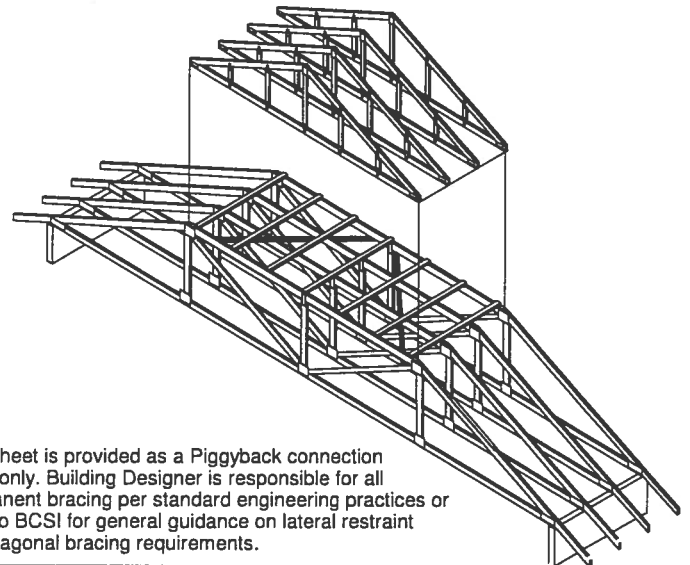
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.

SCAB CONNECTION PER
NOTE D ABOVE

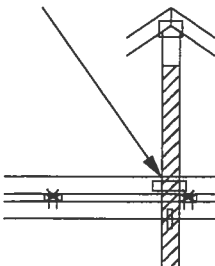


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



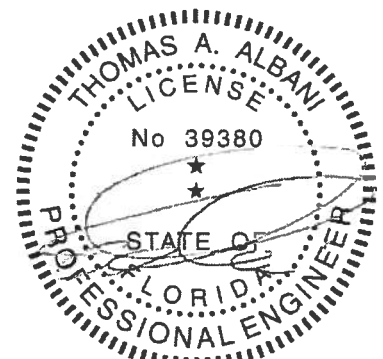
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

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 $\frac{1}{2}$ " 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.



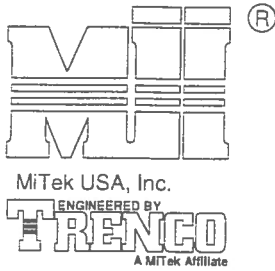
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6904 Parke East Blvd. Tampa FL 33610
Date:

February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT
7-10

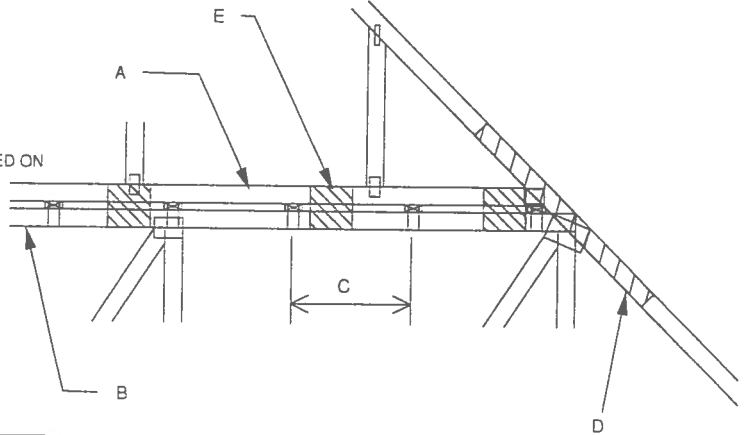


MiTek USA, Inc. Page 1 of 1

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

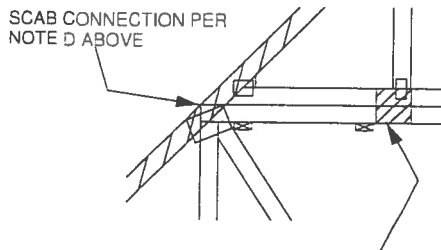
DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.

- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(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(0.131" X 3.5") NAILS EACH.
- D - 2 X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0(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 SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 8" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

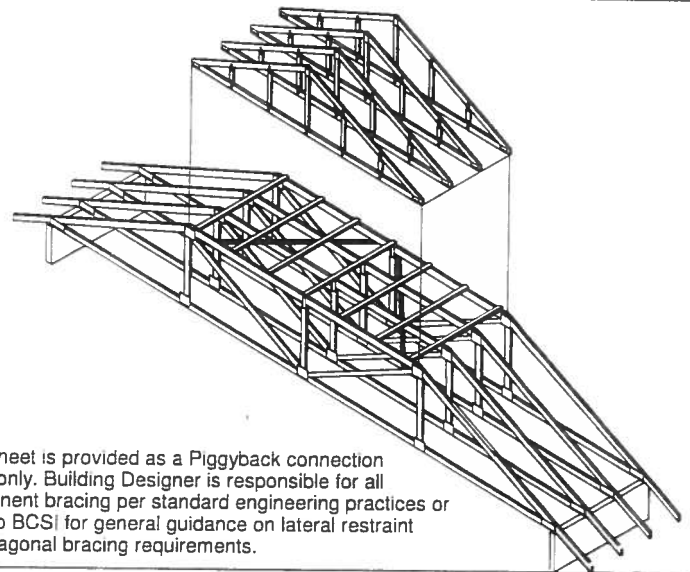


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

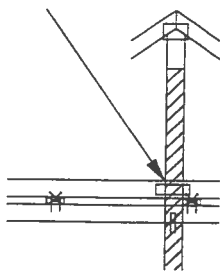


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



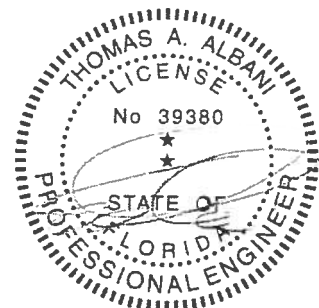
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VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



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 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.



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Date:

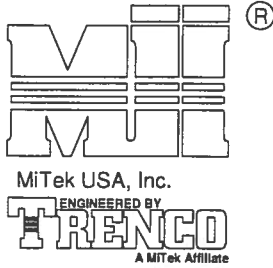
January 19, 2018

AUGUST 1, 2016

STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS
AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

MITek USA, Inc. Page 1 of 1



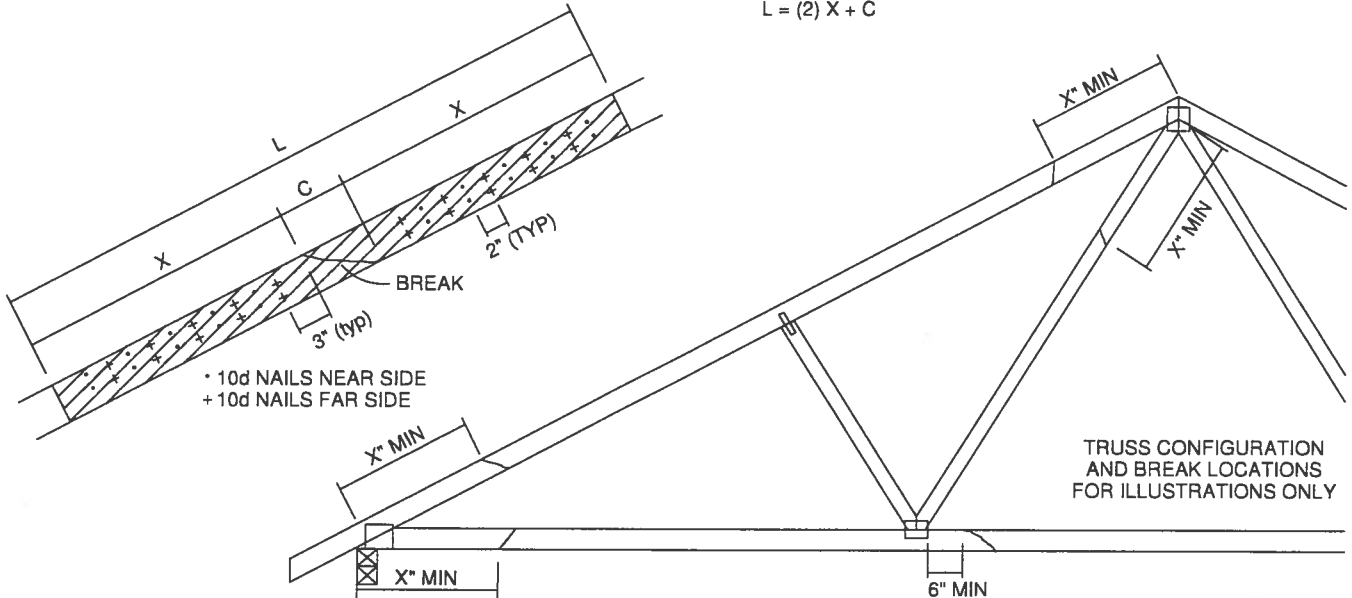
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:

$$L = (2) X + C$$

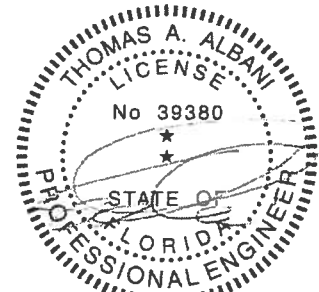


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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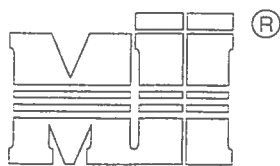
AUGUST 1, 2016

LATERAL TOE-NAIL DETAIL

MII-TOENAIL_SP

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Page 1 of 1



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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.	SP	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

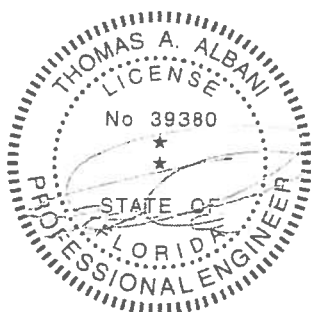
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

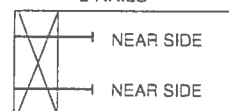
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity



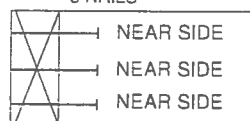
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January 19, 2018

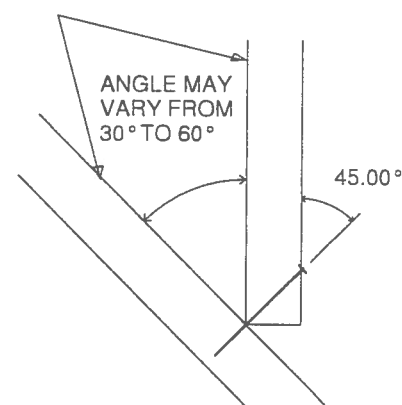
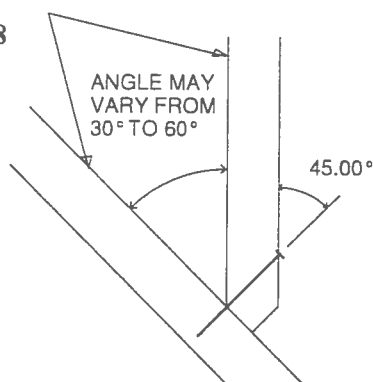
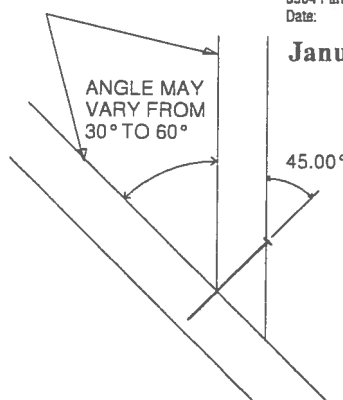
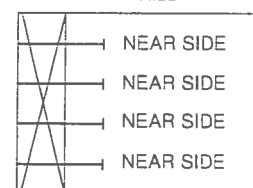
SIDE VIEW
(2x3)
2 NAILS



SIDE VIEW
(2x4)
3 NAILS



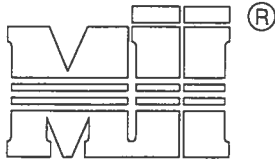
SIDE VIEW
(2x6)
4 NAILS



AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1



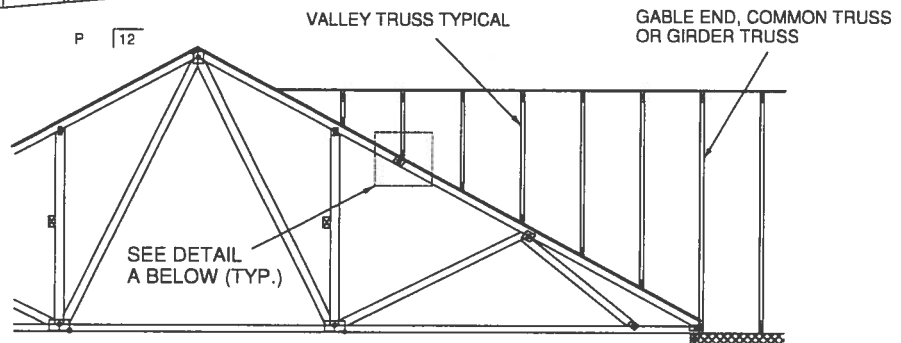
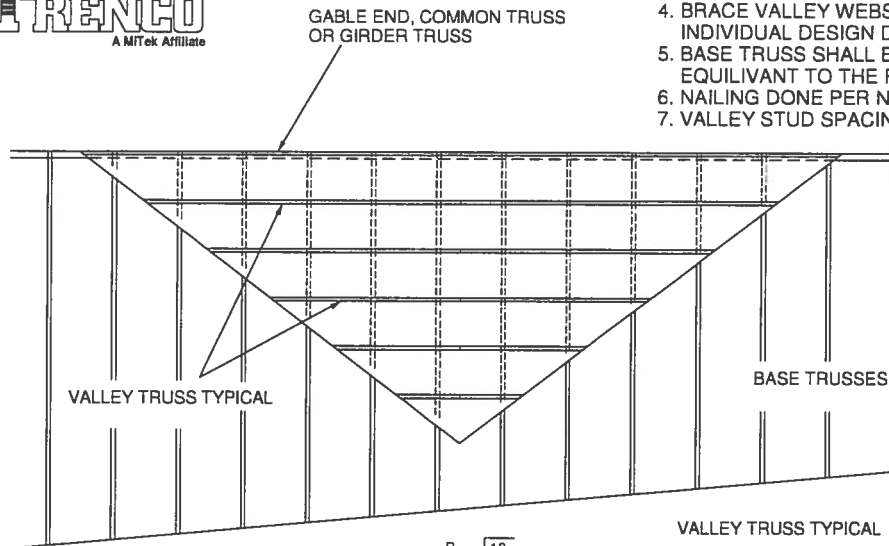
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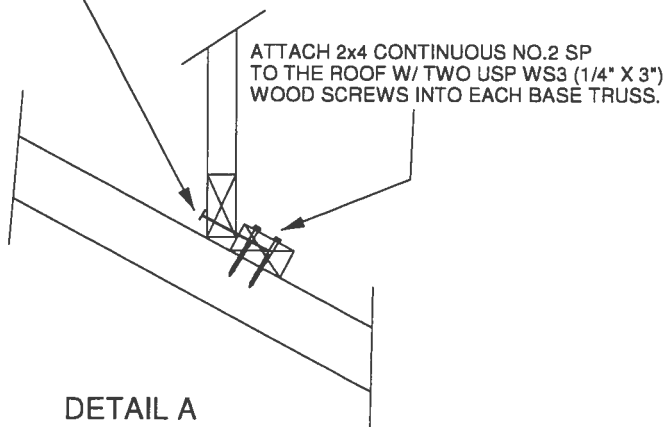
Page 1 of 1

GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

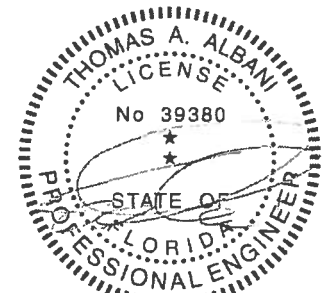


SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.



DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



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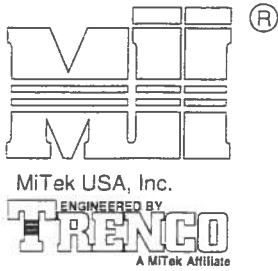
AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

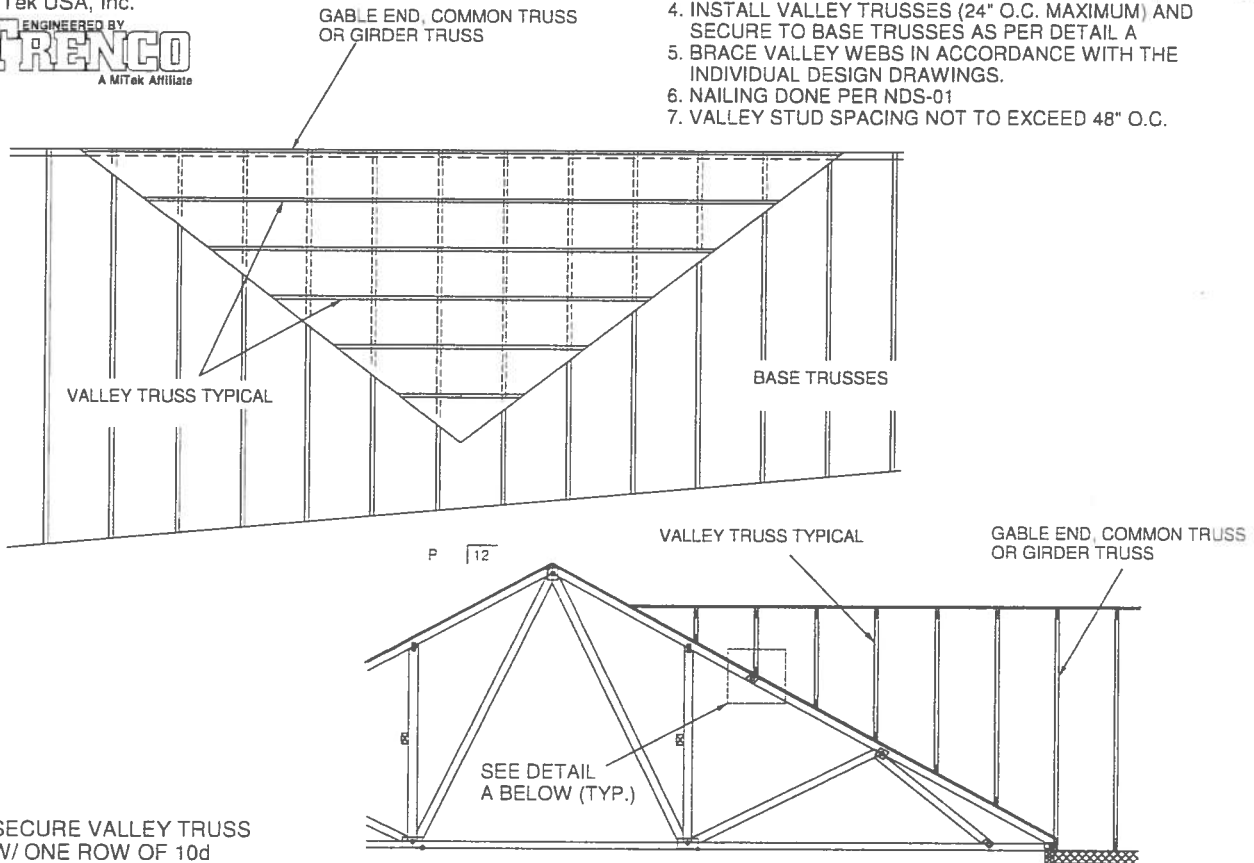
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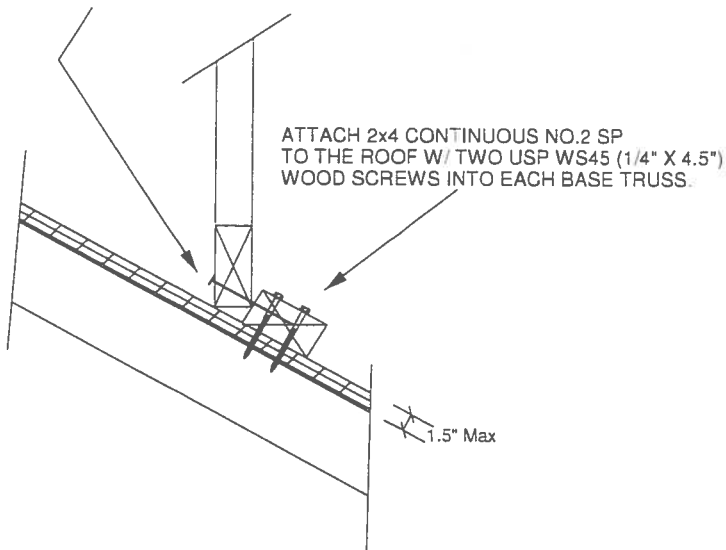


GENERAL SPECIFICATIONS

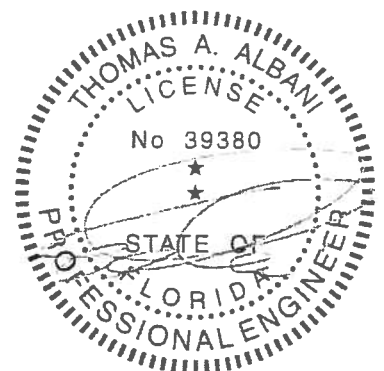
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



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February 12, 2018

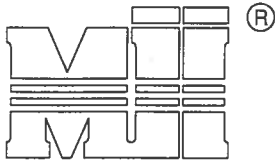
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TRUSSED VALLEY SET DETAIL

MII-VALLEY SP

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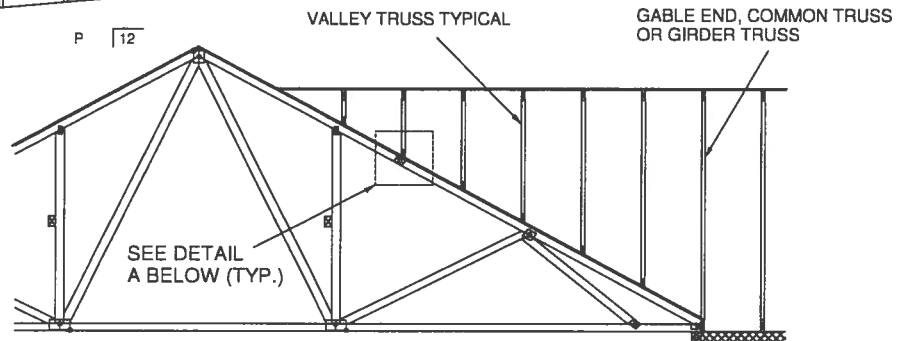
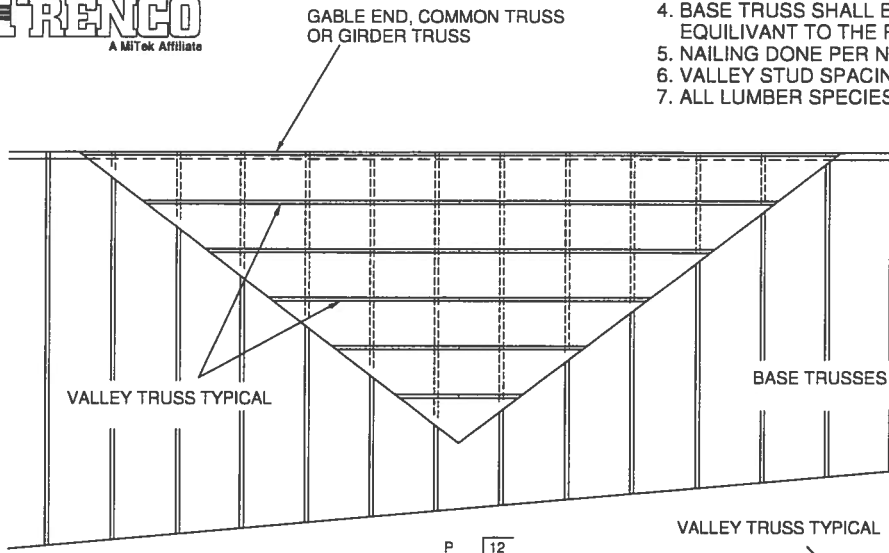


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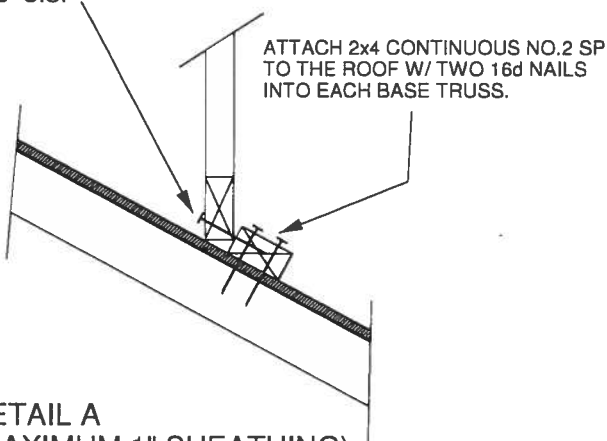
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GENERAL SPECIFICATIONS

1. NAIL SIZE 16d (0.131" X 3.5")
2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVARIANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.



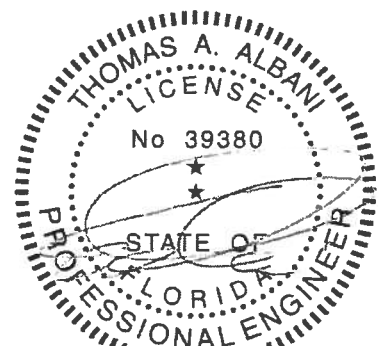
SECURE VALLEY TRUSS
W/ ONE ROW OF 16d
NAILS 6" O.C.



DETAIL A
(MAXIMUM 1" SHEATHING)
N.T.S.

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO 16d NAILS
INTO EACH BASE TRUSS.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING
EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF
ON THE TRUSSES



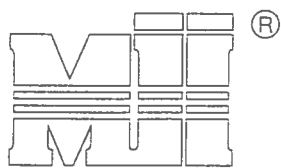
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Date:

February 12, 2018

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TRUSSED VALLEY SET DETAIL
(HIGH WIND VELOCITY)

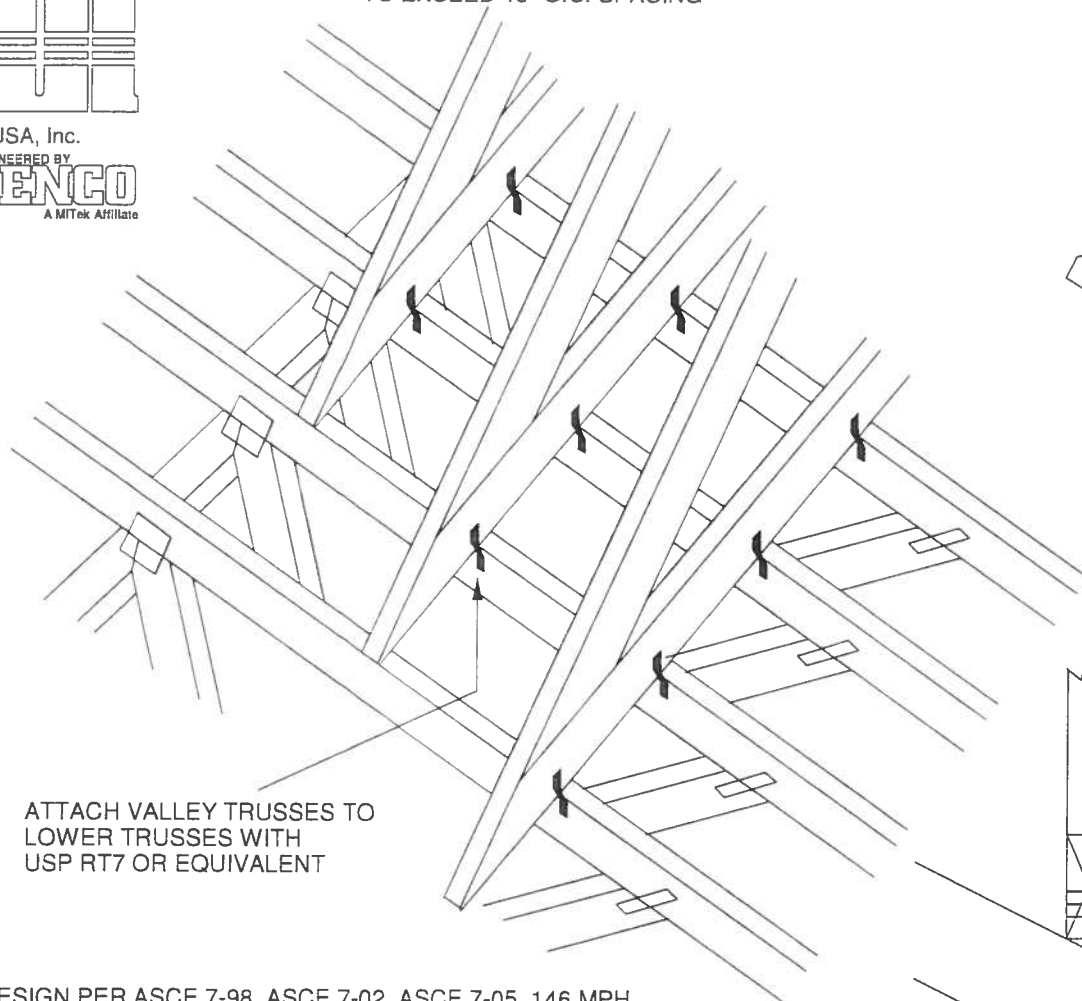
MII-VALLEY



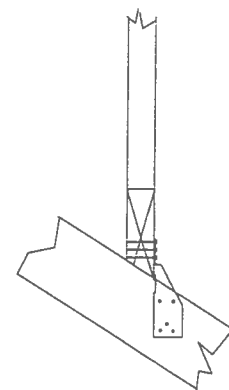
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NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACING

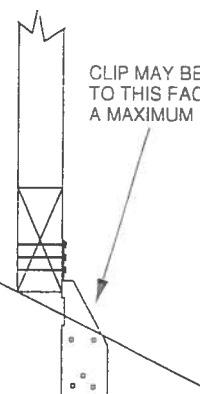
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ATTACH VALLEY TRUSSES TO
LOWER TRUSSES WITH
USP RT7 OR EQUIVALENT



FOR BEVELED BOTTOM
CHORD, CLIP MAY BE
APPLIED TO EITHER FACE



CLIP MAY BE APPLIED
TO THIS FACE UP TO
A MAXIMUM 6/12 PITCH

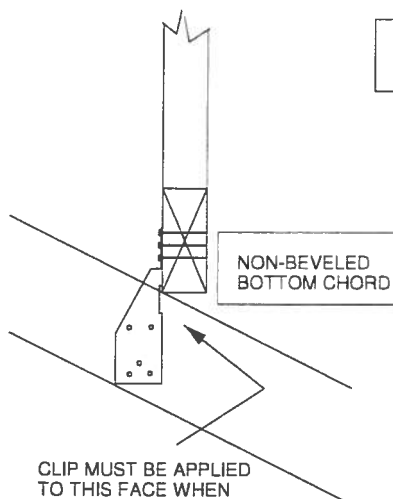
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
WIND DURATION OF LOAD INCREASE : 1.6
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)

SUPPORTING TRUSSES DIRECTLY UNDER
VALLEY TRUSSES MUST BE DESIGNED
WITH A MAXIMUM UNBRACED LENGTH OF
2'-10" ON AFFECTED TOP CHORDS.

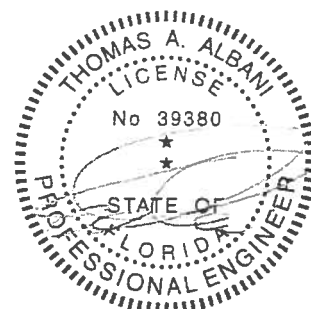
NOTES:

- SHEATHING APPLIED AFTER
INSTALLATION OF VALLEY TRUSSES
- THIS DETAIL IS NOT APPLICABLE FOR
SPF-S SPECIES LUMBER.

NON-BEVELED
BOTTOM CHORD



CLIP MUST BE APPLIED
TO THIS FACE WHEN
PITCH EXCEEDS 6/12.
(MAXIMUM 12/12 PITCH)



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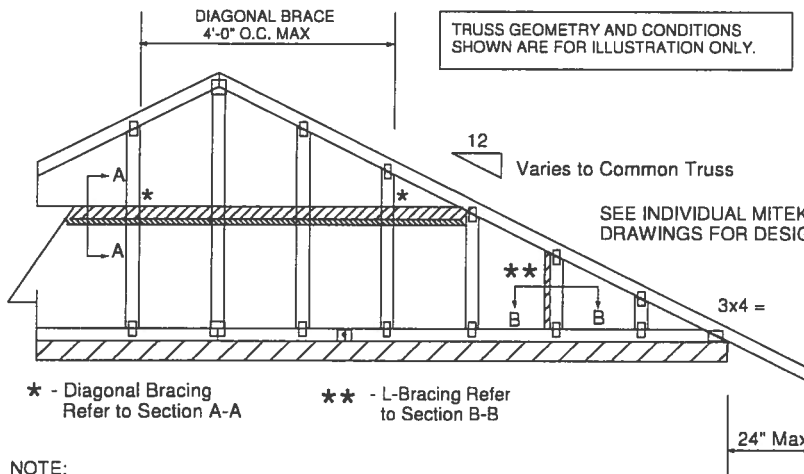
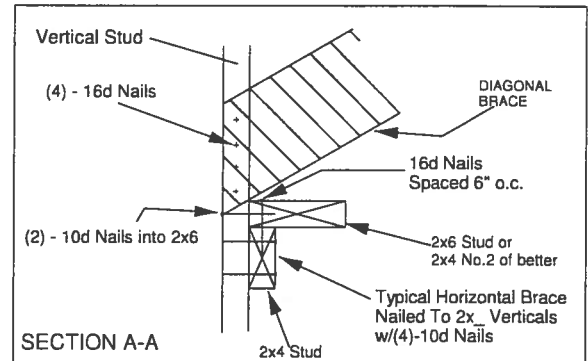
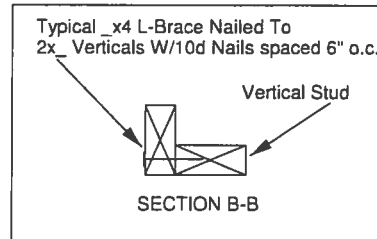
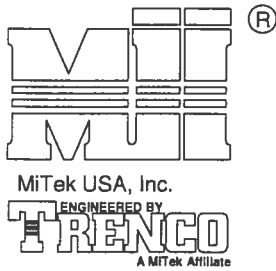
January 19, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE146-001

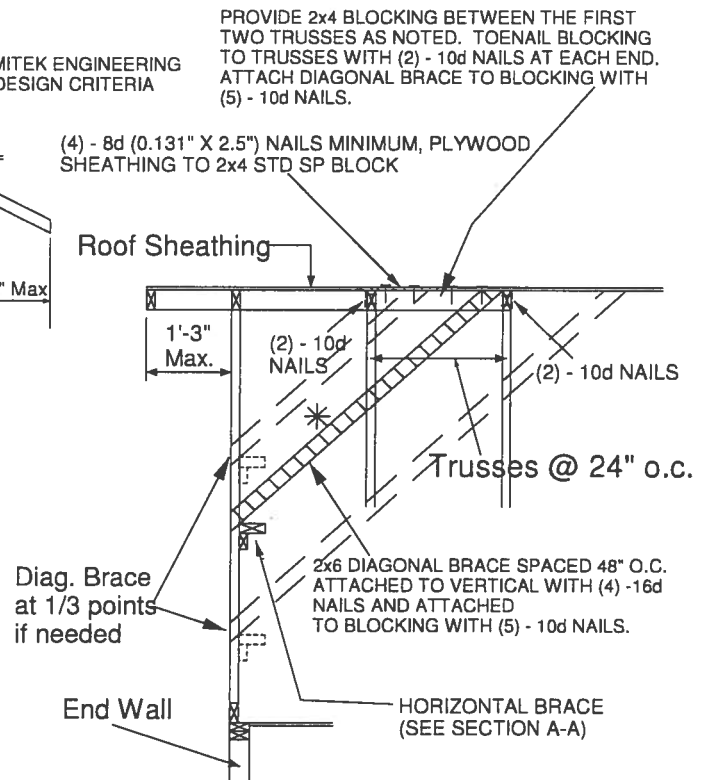
MiTek USA, Inc. Page 1 of 2



NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

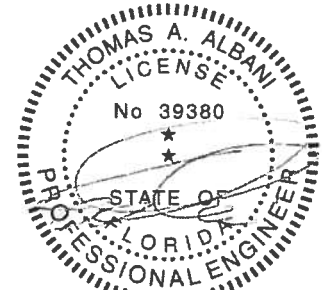
Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7



- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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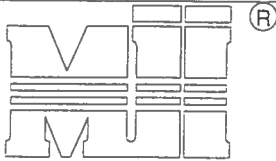
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

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Page 1 of 1



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TRUSS CRITERIA:

LOADING: 40-10-0-10

DURATION FACTOR: 1.15

SPACING: 24" O.C.

TOP CHORD: 2x4 OR 2x6

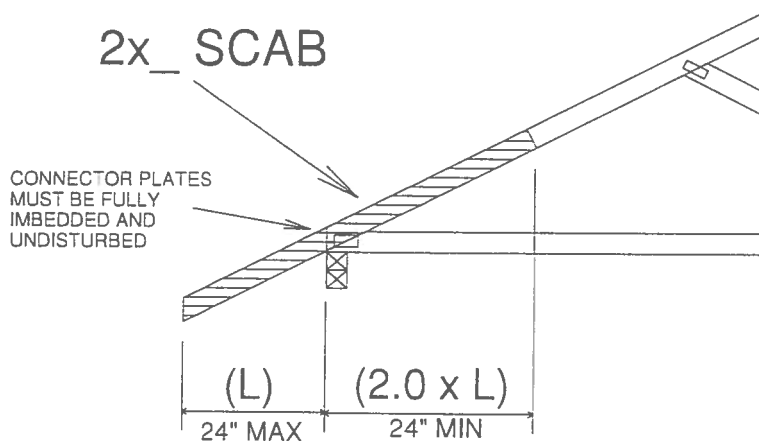
PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

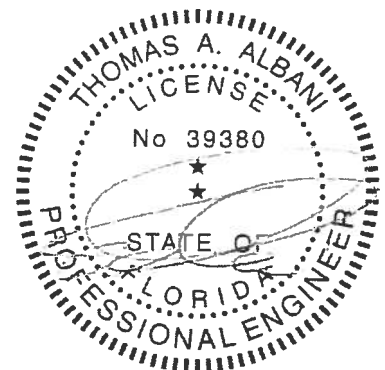


IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN
FOR PLATE SIZES AND LUMBER GRADES



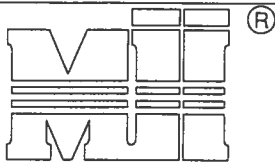
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Date:

February 12, 2018

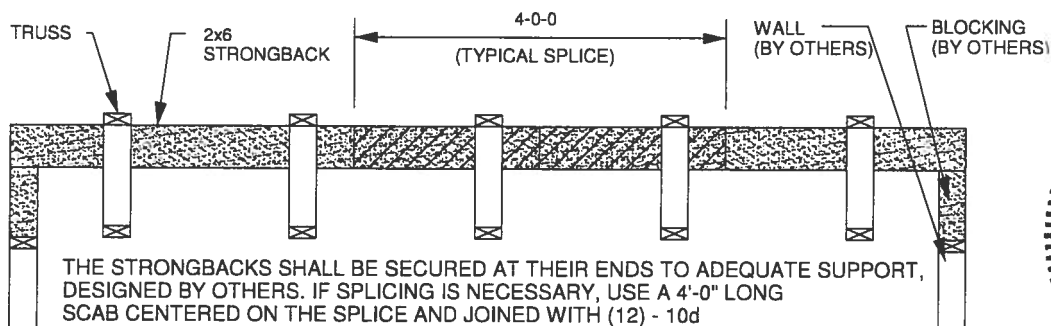
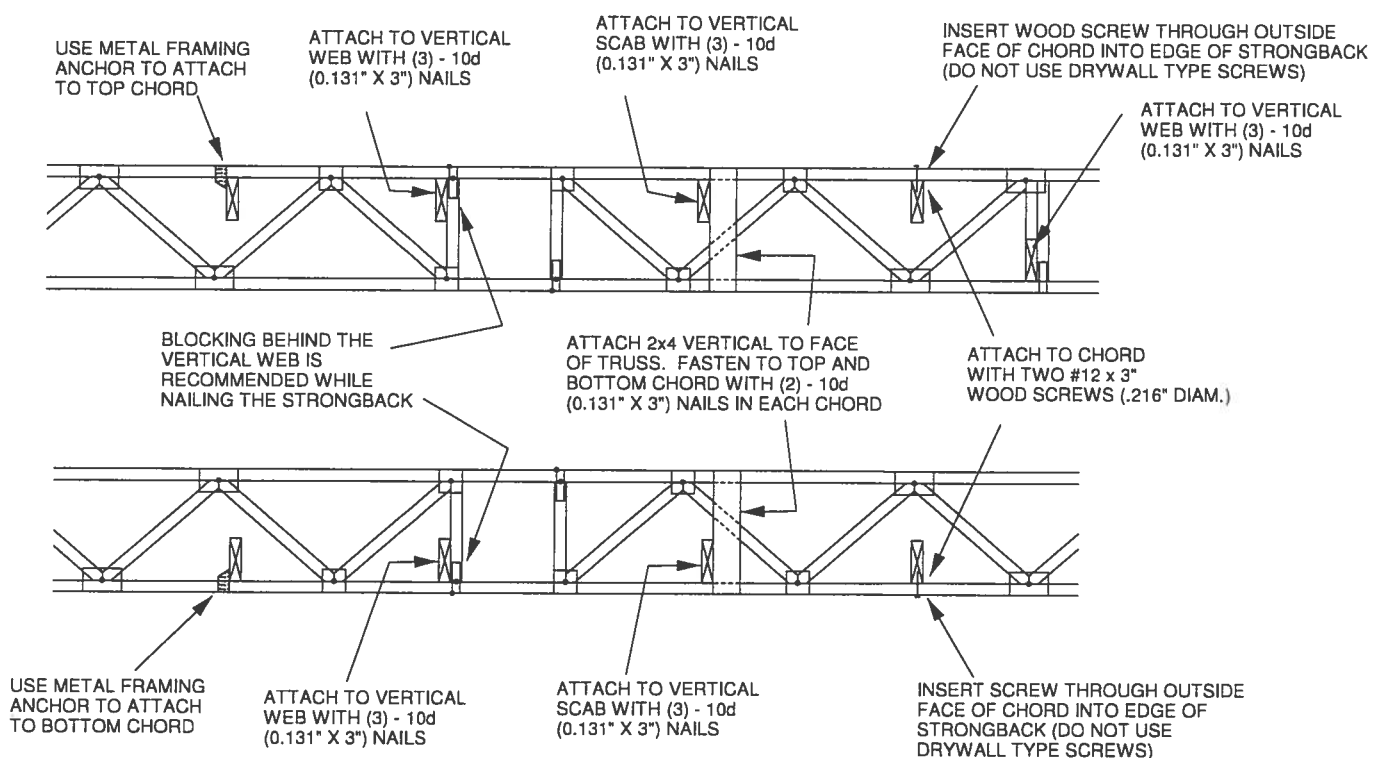


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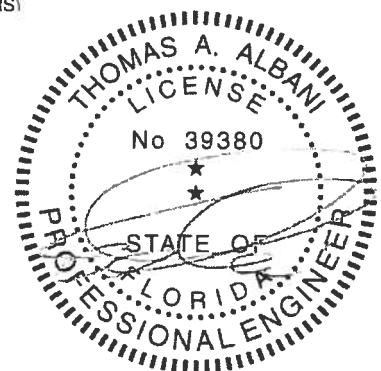
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



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