MiTe

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

RE: 3702922 - GIEBEIG HOMES - LOT 3 CW

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer Info: GIEBEIG HOMES Project Name: Spec Hse Model: 1618

Subdivision: Crosswinds

Lot/Block: 3 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: FBC2020/TPI2014

Design Program: MiTek 20/20 8.6

Wind Speed: 130 mph Floor Load: N/A psf

Wind Code: ASCE 7-16

Roof Load: 37.0 psf

This package includes 25 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:

12/12			_	1000000		T	
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T31765684	CJ01	10/6/23	15	T31765698	T10	10/6/23
2	T31765685	CJ02	10/6/23	16	T31765699	T11	10/6/23
3	T31765686	C103	10/6/23	17	T31765700	T12	10/6/23
4	T31765687	EJ01 HJ01	10/6/23	18	T31765701	T13 T14	10/6/23
5	T31765688 T31765689	T01	10/6/23 10/6/23	19 20	T31765702 T31765703	T15	10/6/23 10/6/23
2 3 4 5 6 7	T31765690	T01G	10/6/23	21	T31765704	T16	10/6/23
	T31765691	T02	10/6/23	22	T31765705	Ť17	10/6/23
8 9 10	T31765692	T04	10/6/23	23	T31765706	T17G	10/6/23
10	T31765693	T05	10/6/23	24	T31765707	T18	10/6/23
11	T31765694	T06	10/6/23	25	T31765708	T18G	10/6/23
12 13	T31765695	T07	10/6/23				
13	T31765696	T08 T09	10/6/23				
14	T31765697	109	10/6/23				

for

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2025.

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.



Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 6,2023

Truss Type Qty GIERRIG HOMES - LOT 3 CW Job T31765684 3702922 CJ01 JACK-OPEN 10 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:37 2023 Page 1 ID: Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:8.2 6.00 12 0-6-12 4 [2:0-2-0,0-0-12] Plate Offsets (X,Y)--GRIP LOADING (psf) SPACING-2-0-0 CSI DEFL. I/defl L/d PLATES in (loc) 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) >999 240 244/190 TCLL 0.00 MT20 BC TCDL 7.0 1.25 0.03 0.00 >999 180 Lumber DOL Vert(CT) BCLL 0.0 Rep Stress Incr WB 0.00 -0.00 YES Horz(CT) 2 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 6 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.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=38(LC 12)

Max Uplift 3=-6(LC 1), 2=-61(LC 12), 4=-19(LC 1)

Max Grav 3=5(LC 8), 2=179(LC 1), 4=17(LC 16)

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

NOTES- (7

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 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, 4.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. S8126 MITek lnc, DBA MITek USA FL Cert 6634 16625 Swingley Ridge Rd. Chesterfield, MO 63017 Dates

October 6,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 bucking 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



GIEBEIG HOMES - LOT 3 CW Qtv Job Truss Truss Type T31765685 10 3702922 CJ02 JACK-OPEN Job Reference (optional)

8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:38 2023 Page 1
ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 3-0-0 Scale = 1:13.3 0-4-11 6.00 12 1-6-12 0-5-7 9 PLATES GRIP LOADING (psf) SPACING-DEFL. I/defl L/d 2-0-0 CSI. (loc) >999 240 MT20 244/190 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) 0.01 4-7 TCLL Vert(CT) -0.01 >999 180 7.0 Lumber DOL 1.25 BC 0.10 TCDL 0.00 Horz(CT) -0.00 BCLL 0.0 Rep Stress Incr YES WB 3 n/a n/a Code FBC2020/TPI2014 Weight: 12 lb FT = 20% BCDL 10.0 Matrix-MP LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins. TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=70(LC 12)

Max Uplift 3=-36(LC 12), 2=-53(LC 12), 4=-15(LC 9)

Max Grav 3=61(LC 1), 2=210(LC 1), 4=50(LC 3)

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

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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.

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, 4.

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.

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regun PE No. 88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16623 Swingley Ridge Rd. Chesterfield, MO 63017

October 6,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 ANS/ITPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty GIEBEIG HOMES - LOT 3 CW T31765686 3702922 CJ03 JACK-OPEN 10 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:38 2023 Page 1 ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:18.2 6.00 12 2-6-12 7-5-0 3x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES GRIP I/defl L/d (loc) 20.0 TCLL Plate Grip DOL 1.25 TC 0.35 Vert(LL) >702 240 244/190 0.08 4-7 MT20 TCDL BC 7.0 Lumber DOL 1.25 0.36 Vert(CT) 0.07 4-7 >806 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Weight: 18 lb FT = 20% LUMBER-

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

TOP CHORD **BOT CHORD**

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=104(LC 12)

Max Uplift 3=-66(LC 12), 2=-60(LC 12), 4=-27(LC 9) Max Grav 3=114(LC 1), 2=276(LC 1), 4=89(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 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, 4,
- 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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October 6,2023

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GIEBEIG HOMES - LOT 3 CW Job Truss Truss Type Qty T31765687 30 3702922 EJ01 JACK-PARTIAL Job Reference (optional)

8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:39 2023 Page 1
ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Scale = 1:23.4 6.00 12 3-6-12 0-5-7 11 12 Plate Offsets (X,Y)-- [2:0-0-4,0-0-4] PLATES GRIP DEFL. I/defl LOADING (psf) SPACING-2-0-0 CSI. (loc) MT20 244/190 Plate Grip DOL 1.25 TC 0.69 Vert(LL) 0.30 4-7 >279 240 20 0 TCLL BC 0.68 Vert(CT) 0.25 >329 180 TCDL 7.0 Lumber DOL 1.25 -0.02 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) n/a n/a BCLL

LUMBER-

BCDL

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

10.0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 25 lb

FT = 20%

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Code FBC2020/TPI2014

Max Horz 2=133(LC 12)

Max Uplift 3=-84(LC 12), 2=-70(LC 12), 4=-39(LC 9) Max Grav 3=165(LC 1), 2=346(LC 1), 4=126(LC 3)

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

NOTES- (7)

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 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

Matrix-MS

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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) 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, 4.
- 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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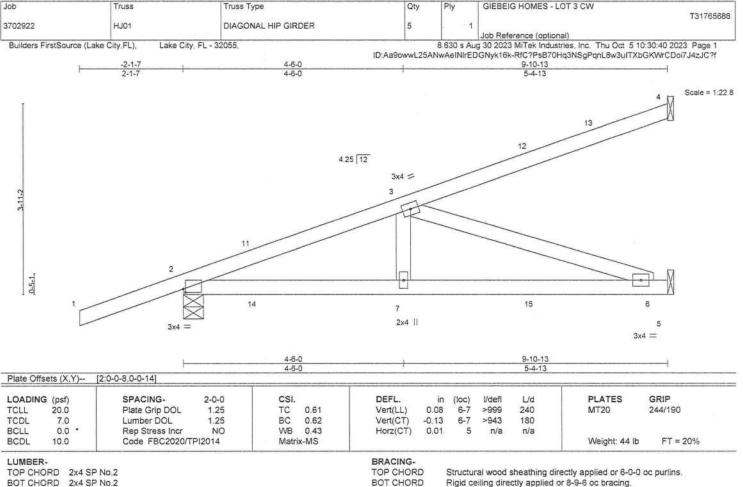
Philip J. O'Rogen PE No. 88126 MITck Inc. DBA MITck USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 6,2023

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2x4 SP No.2

BOT CHORD 2x4 SP No.3 WEBS

REACTIONS.

(size) 4=Mechanical, 2=0-4-15, 5=Mechanical

Max Horz 2=145(LC 4)

Max Uplift 4=-76(LC 4), 2=-303(LC 4), 5=-167(LC 4) Max Grav 4=153(LC 1), 2=495(LC 1), 5=290(LC 1)

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

TOP CHORD

2-3=-746/374

BOT CHORD 2-7=-419/685, 6-7=-419/685

WEBS

3-7=-87/274, 3-6=-723/442

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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.
- 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) 4 except (jt=lb) 2=303 5=167
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 82 lb up at 1-5-12, 46 lb down and 82 lb up at 1-5-12, 21 lb down and 39 lb up at 4-3-11, 21 lb down and 39 lb up at 4-3-11, and 42 lb down and 78 ib up at 7-1-10, and 42 ib down and 78 ib up at 7-1-10 on top chord, and 38 ib down and 45 ib up at 1-5-12, 38 ib down and 45 lb up at 1-5-12, 19 lb down and 23 lb up at 4-3-11, 19 lb down and 23 lb up at 4-3-11, and 40 lb down and 42 lb up at 7-1-10, and 40 lb down and 42 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) 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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Philip J. O'Regau PE No. S8126 MiTok Inc. DBA MiTok USA FI, Cert 6634 16025 Swingley Ridge Rd. Chasterfield, MO 63017

October 6,2023

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CW
3702922	HJ01	DIAGONAL HIP GIRDER	5	1	T31765688
0,02022	11001	31133112111 3113211			Job Reference (optional)

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:40 2023 Page 2 ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

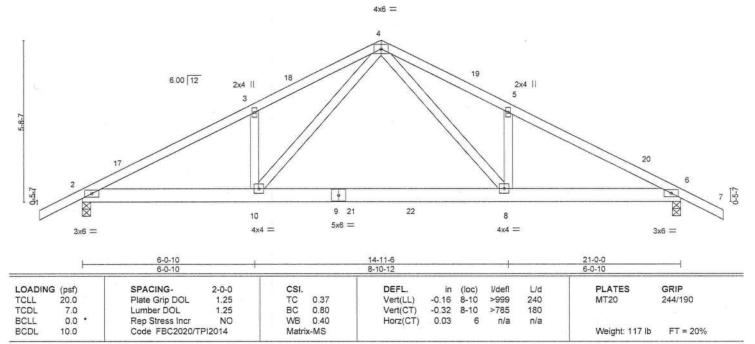
LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 7=-4(F=-2, B=-2) 11=40(F=20, B=20) 12=-75(F=-37, B=-37) 15=-57(F=-28, B=-28)



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CW	T31765689
3702922	T01	COMMON	10	1		101130000
					Job Reference (optional)	
Builders FirstSource	(Lake City, FL), Lake Ci	ty, FL - 32055,			g 30 2023 MiTek Industries, Inc. Thu Oct 5 10	
			ID:Aa9owwL25AI	NwAeINIrEC	DGNyk16k-RfC?Ps870Hq3NSgPqnL8w3uITXb	GKWrCDoi7J4zJC?f
-1-6-0	6-0-10	10-6-0	14-	11-6	21-0-0	22-6-0
1-6-0	6-0-10	4-5-6	4-	5-6	6-0-10	1-6-0

Scale = 1:39.



LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-11-10 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=87(LC 12)

Max Uplift 2=-252(LC 12), 6=-252(LC 13) Max Grav 2=1142(LC 2), 6=1142(LC 2)

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

TOP CHORD 2-3=-2052/517, 3-4=-2039/608, 4-5=-2039/608, 5-6=-2052/517

BOT CHORD 2-10=-367/1813, 8-10=-194/1132, 6-8=-381/1783

WEBS 4-8=-292/1060, 5-8=-268/175, 4-10=-292/1060, 3-10=-268/175

NOTES- (8

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 22-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 6=252.

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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.

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

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillp J. O'Regau PE No.88126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 6,2023

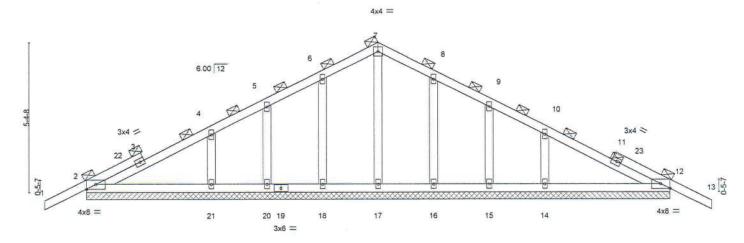
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 property 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 sand truss systems, see ANSI/TPI Quality Criteria and DSB-2 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



ob	Truss	Truss Type	Q	ty	Ply	GIEBEIG HOMES - LOT 3 CW	T31765690
702922	T01G	GABLE	1		1		131703090
						Job Reference (optional)	
Builders FirstSource (Lake C	city,FL), Lake City, FL - 3	2055,					
			ID:Aa9oww	L25ANW	AeINIrED	GNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCI	Doi7J4zJC?f
-1-6-0		10-6-0				21-0-0	22-6-0
1-6-0		10-6-0				10-6-0	1-6-0
	702922 Builders FirstSource (Lake C	702922 T01G Builders FirstSource (Lake City,FL), Lake City, FL - 3	702922 T01G GABLE Builders FirstSource (Lake City, FL), Lake City, FL - 32055, -1-6-0 , 10-6-0	702922 T01G GABLE 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 1D:Aa9oww	702922 T01G GABLE 1 Builders FirstSource (Lake City, FL), Lake City, FL - 32055, ID:Aa9owwL25ANw	702922 T01G GABLE 1 1 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Aa9owwL25ANwAelNirED	702922 T01G GABLE 1 1 1 Job Reference (optional) Builders FirstSource (Lake City, FL), Lake City, FL - 32055, Builders Fir

Scale = 1:39.7



						21-0-0						
Plate Off	sets (X,Y)	[2:Edge,0-2-1], [12:Edge	.0-2-1]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.00	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.01	13	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		names of caracters
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 109 lb	FT = 20%

LUMBER-

OTHERS

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

2x4 SP No.3

BRACING-TOP CHORD

2-0-0 oc purlins (6-0-0 max.).

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 21-0-0.

(lb) - Max Horz 2=82(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 20, 21, 16, 15 except 14=-102(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 20, 16, 15 except 21=303(LC 23), 14=303(LC

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

NOTES-(12)

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vuit=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 22-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) *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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 20, 21, 16, 15 except (jt=lb) 14=102.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regnu PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chenterfield, MO 63017

October 6,2023

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Job Truss Truss Type Qty GIEBEIG HOMES - LOT 3 CW T31765691 3702922 T02 MONOPITCH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:42 2023 Page 1 ID: Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:21.9 6.00 12 3×4 = 2x4 LOADING (psf) SPACING-DEFL. PLATES GRIP 2-0-0 CSI L/d (loc) I/def! 244/190 20.0 Plate Grip DOL TC 0.48 Vert(LL) -0.06 4-7 >999 240 TCLL 1 25 MT20 BC 0.40 -0.13 4-7 >552 180 TCDL 7.0 Lumber DOL 1.25 Vert(CT) 0.0 * WB 0.00 BCLL Rep Stress Incr YES Horz(CT) 0.01 2 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

Matrix-MP

WEBS 2x4 SP No.3

REACTIONS. (size) 4=0-3-8, 2=0-3-8

Max Horz 2=124(LC 12)

Max Uplift 4=-82(LC 12), 2=-65(LC 12) Max Grav 4=218(LC 1), 2=318(LC 1)

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

Code FBC2020/TPI2014

NOTES- (6

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) 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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Weight: 27 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

FT = 20%

Philip J. O'Regon PE No. 58126 MITek Inc. DBA MITek USA. FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

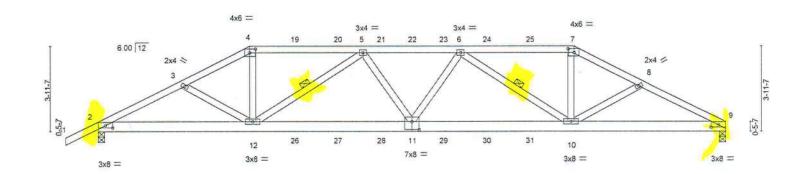
October 6,2023

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Job	Truss		Truss Type		Qty	Ply	GIEBEIG HO	MES - LOT 3 CW		
			1000		57.	1000			T3	31765692
3702922	T04		HIP GIRDER		1	1				
							Job Referenc	e (optional)		
Builders FirstSource (L	ake City.FL).	Lake City, FL -	32055.			8.630 s Aug	g 30 2023 MiT	ek Industries, Inc. Thu	Oct 5 10:30:44 2023 P	age 1
	PARTICIONAL DE PART	CHARLES CONTRACTOR		ID:Aa9d	wwL25Al	NwAelNIrED	GNyk16k-RfC	?PsB70Hq3NSqPqnL8	w3uITXbGKWrCDoi7J4z	JC?f
1-6-0 ,	4-0-0	7-0-0	12-3-0	16-9-0		22	2-0-0	25-0-0	29-0-0	
1-6-0	4-0-0	3-0-0	5-2-15	4-6-1		5-	2-15	3-0-0	4-0-0	



	1	7-0-0		14-6-0			2	2-0-0		1	29-0-0	
		7-0-0		7-6-0			7	7-6-0			7-0-0	
Plate Offse	ets (X,Y)	[2:0-4-0,0-1-4], [4:0-3-4,0	-2-0], [7:0-3-4,0	0-2-0], [9:0-4-0	.0-1-4], [11	:0-4-0,0-4-8]					,	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	0.26 1	1-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.41 1	1-12	>842	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-	MS						Weight: 165 lb	FT = 20%

BRACING-

WEBS

TOP CHORD BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

4-7: 2x4 SP No.1

BOT CHORD 2x6 SP M 26

WEBS 2x4 SP No.3

REACTIONS.

(size) 9=0-3-8, 2=0-3-8

Max Horz 2=72(LC 31) Max Uplift 9=-936(LC 9), 2=-968(LC 8)

Max Grav 9=2192(LC 1), 2=2277(LC 1)

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

2-3=-4413/1959, 3-4=-4270/1934, 4-5=-3858/1780, 5-6=-5172/2329, 6-7=-3869/1787, TOP CHORD

7-8=-4283/1942, 8-9=-4430/1969 BOT CHORD

2-12=-1750/3894, 11-12=-2238/5026, 10-11=-2228/5029, 9-10=-1710/3911 WEBS

4-12=-615/1404, 5-12=-1466/684, 5-11=-137/419, 6-11=-135/417, 6-10=-1461/681, 7-10=-620/1411

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=936, 2=968.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 234 lb down and 171 lb up at 7-0-0, 111 lb down and 89 lb up at 9-0-12, 111 lb down and 89 lb up at 11-0-12, 111 lb down and 89 lb up at 13-0-12, 111 lb down and 82 lb up at 14-6-0, 111 lb down and 89 lb up at 15-11-4, 111 lb down and 89 lb up at 17-11-4, and 111 lb down and 89 lb up at 19-11-4, and 234 lb down and 171 lb up at 22-0-0 on top chord, and 325 lb down and 259 lb up at 7-0-0, 86 lb down and 59 lb up at 9-0-12, 86 lb down and 59 lb up at 11-0-12, 86 lb down and 59 lb up at 13-0-12, 86 lb down and 59 lb up at 14-6-0, 86 lb down and 59 lb up at 15-11-4, 86 lb down and 59 lb up at 17-11-4, and 86 lb down and 59 lb up at 19-11-4, and 325 lb down and 259 lb up at 21-11-4 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 2-5-0 oc purlins.

5-12, 6-10

Rigid ceiling directly applied or 6-7-13 oc bracing.

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 6,2023

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CW
3702922	T04	HIP GIRDER	1	1	131/00092
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:44 2023 Page 2 ID:Aa9owwL25ANwAeiNirEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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, 7-9=-54, 13-16=-20

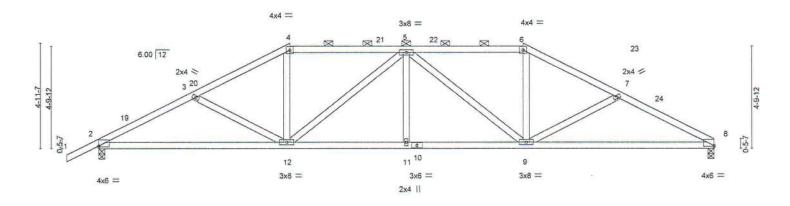
Concentrated Loads (lb)

Vert: 4=-187(F) 7=-187(F) 11=-63(F) 12=-325(F) 10=-325(F) 19=-111(F) 20=-111(F) 21=-111(F) 22=-111(F) 23=-111(F) 24=-111(F) 25=-111(F) 26=-63(F) 27=-63(F) 29=-63(F) 30=-63(F) 31=-63(F) 31=-63



Job	Truss		Truss Type			Qty	Ply	GIEBEIG HOMES - LOT 3 CW		
			25%			30	1.0.2%		T317	765693
3702922	T05		HIP			1	1			
								Job Reference (optional)		
Builders FirstSource (Lake	City,FL),	Lake City, FL - 3	2055,				3.630 s Aug	g 30 2023 MiTek Industries, Inc. T	hu Oct 5 10:30:45 2023 Pag	e 1
					ID:Aa9ov	vwL25AN	vAelNirED	GNyk16k-RfC?PsB70Hq3NSgPqn	L8w3uITXbGKWrCDoi7J4zJ0	C?f
, -1-6-0	4-6-15	9-0-	0	14-6-0	-	20-0	0-0	24-5-1	29-0-0	
1-6-0	4-6-15	4-5-	1	5-6-0		5-6	-0	4-5-1	4-6-15	

Scale = 1:52.0



	0	9-0-0	9-0-0			1	20-0-0				29-0-0		
		9-0-0		5-6-0		5-6-0		"	9-0-0				
Plate Offs	ets (X,Y)	[2:0-0-0,0-0-8], [8:0-0-0,0	0-0-8]										
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	0.35	Vert(LL)	-0.13	9-15	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.28	9-15	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.08	8	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 146 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

(size) 8=0-3-8, 2=0-3-8

Max Horz 2=85(LC 12)

Max Uplift 8=-218(LC 13), 2=-249(LC 12) Max Grav 8=1071(LC 1), 2=1156(LC 1)

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

TOP CHORD 2-3=-1933/408, 3-4=-1704/344, 4-5=-1472/334, 5-6=-1478/337, 6-7=-1712/349,

7-8=-1950/417

BOT CHORD 2-12=-378/1682, 11-12=-285/1755, 9-11=-285/1755, 8-9=-325/1701

4-12=-63/489, 5-12=-453/143, 5-9=-449/141, 6-9=-63/491

NOTES- (9)

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 20-0-0, Exterior(2R) 20-0-0 to 24-2-15, Interior(1) 24-2-15 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=218, 2=249.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 4-1-10 oc purlins,

2-0-0 oc purlins (4-6-10 max.): 4-6.

Rigid ceiling directly applied or 9-6-9 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chenterfield, MO 63017

October 6,2023

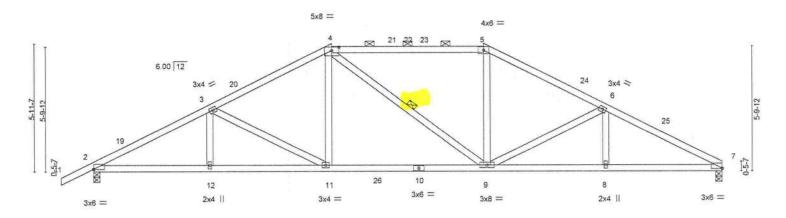
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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, crection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3	CW	
		0.0000000000000000000000000000000000000					T31765694
3702922	T06	HIP	1	1			
V. 1000000000000000000000000000000000000	0.000.00	1775			Job Reference (optional)		
Builders FirstSource (Lak	ke City,FL), Lake	City, FL - 32055,		8.630 s Aug	30 2023 MiTek Industries, In	nc. Thu Oct 5 10:30:45 20	23 Page 1
			ID:Aa9owwL25AN	WAeINITEDG	Nyk16k-RfC?PsB70Hq3NS	gPqnL8w3uITXbGKWrCDr	bi7J4zJC?f
, -1-6-0 ,	5-4-7	11-0-0	18-0-0	1	23-7-9	29-0-0	1
1-6-0	5-4-7	5-7-9	7-0-0	1	5-7-9	5-4-7	b)

Scale = 1:51.4



	1	5-4-7	11-0-	.0	r	18-0-0				23-7-9	29-0-)
		5-4-7	5-7-9	9		7-0-0		-1	Television	5-7-9	5-4-7	
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-4], [4:0-4-0,0	-1-15], [7:0-0-0	0-0-4]		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	0.82	Vert(LL)	-0.15	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.27	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.08	7	n/a	n/a	190.00000000000000000000000000000000000	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	5000000					Weight: 147 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

except

1 Row at midpt

2-0-0 oc purlins (3-2-6 max.): 4-5.

Rigid ceiling directly applied or 9-9-6 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=100(LC 12)

Max Uplift 7=-215(LC 13), 2=-247(LC 12)

Max Grav 7=1158(LC 2), 2=1233(LC 2)

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

TOP CHORD 2-3=-2101/380, 3-4=-1709/339, 4-5=-1467/333, 5-6=-1698/340, 6-7=-2105/390

BOT CHORD 2-12=-365/1832, 11-12=-365/1832, 9-11=-212/1477, 8-9=-296/1837, 7-8=-296/1837

WEBS 3-11=-405/171, 4-11=-39/460, 5-9=-34/441, 6-9=-421/180

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 18-0-0, Exterior(2R) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=215, 2=247.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

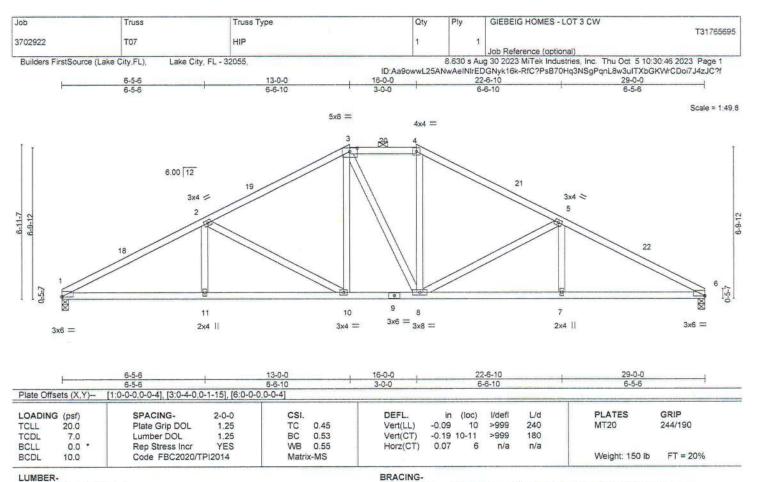
Structural wood sheathing directly applied or 3-11-1 oc purlins,

Philip J. O'Regau PE No. S8126 MiTek inc. DBA MITek USA FL Cert 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63917

October 6,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 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 we hand/or chord mebers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss we hand/or chord mebers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss when seems and/or chord means of the property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIPTIO Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





TOP CHORD

BOT CHORD

except

2-0-0 oc purlins (5-3-4 max.): 3-4.

Rigid ceiling directly applied or 9-7-15 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.2

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

REACTIONS. (size) 1=0-3-8, 6=0-3-8

Max Horz 1=93(LC 12)

Max Uplift 1=-212(LC 12), 6=-212(LC 13) Max Grav 1=1073(LC 1), 6=1073(LC 1)

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

1-2=-1941/375, 2-3=-1418/321, 3-4=-1190/321, 4-5=-1419/322, 5-6=-1940/375 TOP CHORD 1-11=-366/1675, 10-11=-366/1675, 8-10=-168/1189, 7-8=-280/1675, 6-7=-280/1675 **BOT CHORD** 2-11=0/264, 2-10=-553/222, 3-10=-73/365, 4-8=-71/366, 5-8=-552/222, 5-7=0/262

WEBS

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=212 6=212
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 3-11-11 oc purlins,

Philip J. O'Regau PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd, Chesterfield, MO 63017

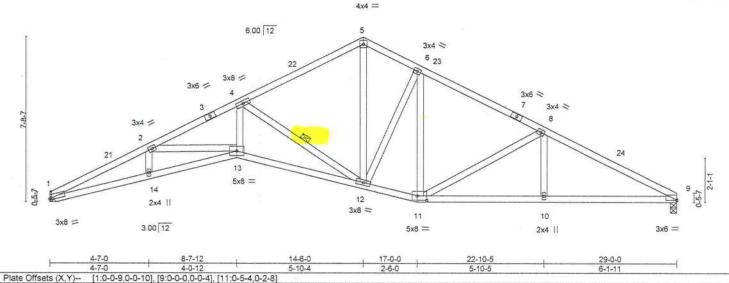
October 6,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 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 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 ANSITPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty GIEBEIG HOMES - LOT 3 CW T31765696 3702922 T08 ROOF SPECIAL 5 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:47 2023 Page 1 ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 17-0-0 22-10-5 5-10-5

Scale = 1:51.5



LOADING (psf) SPACING-DEFL PLATES 2-0-0 CSI in (loc) 1/def L/d GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.57 Vert(LL) -0.2413 >999 240 MT20 244/190 BC TCDL 7.0 1.25 0.84 -0.45 12-13 Lumber DOL Vert(CT) >779 180 0.0 BCLL Rep Stress Incr YES WB 0.59 Horz(CT) 0.24 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS FT = 20% Weight: 154 lb

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 *Except* 1-13: 2x4 SP No.1

WEBS 2x4 SP No.3

VEBS 2X4 SP NO.3

REACTIONS. (size) 1=Mechanical, 9=0-3-8

Max Horz 1=105(LC 12)

Max Uplift 1=-209(LC 12), 9=-209(LC 13) Max Grav 1=1073(LC 1), 9=1073(LC 1)

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

TOP CHORD 1-2=-3340/697, 2-4=-3144/632, 4-5=-1380/329, 5-6=-1343/346, 6-8=-1471/337,

8-9=-1945/378

BOT CHORD 1-14=-695/2992, 13-14=-699/3019, 12-13=-562/2795, 11-12=-168/1299, 10-11=-281/1678,

9-10=-281/1678 WEBS 4-13=-290/1542

4-13=-290/1542, 4-12=-1859/483, 5-12=-211/964, 6-12=-271/174, 8-11=-499/192,

8-10=0/252

NOTES- (8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 17-6-0, Interior(1) 17-6-0 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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) 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) 1=209, 9=209.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 2-8-7 oc purlins.

4-12

Rigid ceiling directly applied or 7-6-6 oc bracing.

1 Row at midpt

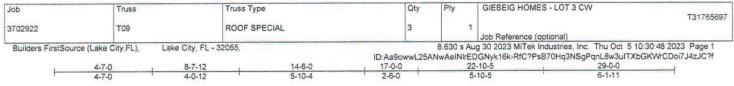
Philip J. O'Regen PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16625 Swingley Ridge Rd. Chroterfield, MO 65017 Dates

October 6,2023

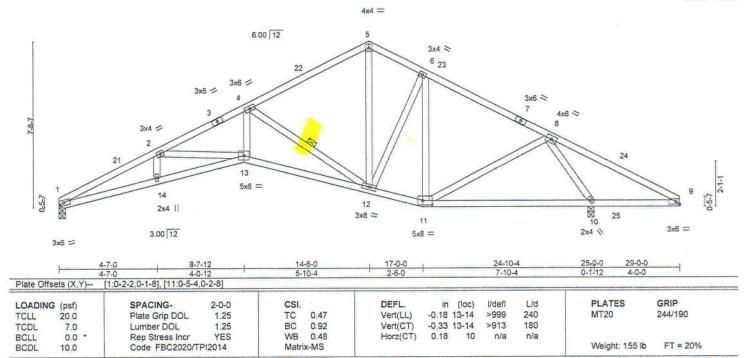
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 property 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 and DSB-2.2 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





Scale = 1:51.6



BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

WEBS REACTIONS.

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

2x4 SP No.3

(size) 1=0-3-8, 10=0-3-8

Max Horz 1=105(LC 12)

Max Uplift 1=-188(LC 12), 10=-243(LC 13) Max Grav 1=899(LC 1), 10=1247(LC 1)

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

TOP CHORD

1-2=-2727/621, 2-4=-2443/546, 4-5=-963/223, 5-6=-925/250, 6-8=-940/211, 8-9=-297/347

1-14=-626/2438, 13-14=-630/2459, 12-13=-484/2168, 11-12=-95/796, 10-11=-66/420,

9-10=-240/298 WEBS

4-13=-254/1253, 4-12=-1571/447, 5-12=-127/591, 6-11=-295/86, 8-11=-84/398,

8-10=-1232/448

BOT CHORD

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 17-6-0, Interior(1) 17-6-0 to 29-0-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 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=188, 10=243,
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 3-2-1 oc purlins.

4-12

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

Phillp J. O'Regnu PE No.58126 MiTek Inc. DBA MITek USA PL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

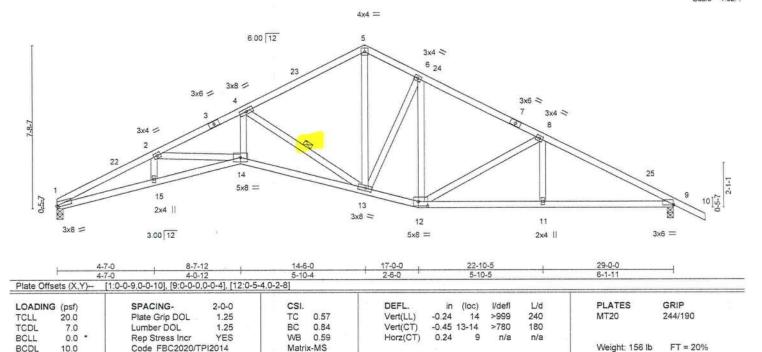
October 6,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MTEk® 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 properly and permanent 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 properly and properly general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



GIEBEIG HOMES - LOT 3 CW Truss Type Qty Job Truss T31765698 ROOF SPECIAL 3702922 T10 Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:49 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 30-6-0 29-0-0 17-0-0 22-10-5 2-6-0 1-6-0

Scale = 1:52.4



BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 *Except* 1-14: 2x4 SP No.1

1-14: 2x4 SP No.1

WEBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=-126(LC 17)

Max Uplift 1=-209(LC 12), 9=-241(LC 13) Max Grav 1=1071(LC 1), 9=1156(LC 1)

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

TOP CHORD 1-2=-3333/687, 2-4=-3135/620, 4-5=-1375/325, 5-6=-1338/336, 6-8=-1465/328,

8-9=-1925/358

BOT CHORD 1-15=-675/2985, 14-15=-679/3012, 13-14=-540/2790, 12-13=-149/1293, 11-12=-251/1658,

9-11=-251/1658

WEBS 4-14=-280/1538, 4-13=-1855/473, 5-13=-208/961, 6-13=-270/178, 8-12=-482/185,

8-11=0/250

NOTES- (8

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 17-6-0, Interior(1) 17-6-0 to 30-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

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) 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=209, 9=241.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 2-8-8 oc purlins.

4-13

Rigid ceiling directly applied or 7-7-10 oc bracing.

1 Row at midpt

Philip J. O'Regau PE No. Sti 26 MITek Inc. DBA MITek USA PI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Dates:

October 6,2023

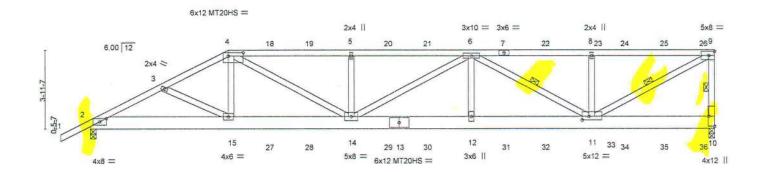
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 property 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 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	1	russ	Truss Type	Qty	Ply	GIEBEIG HOMES - I	LOT 3 CW	
0.1 442 300022 0000			100	7255	1000			T31765699
3702922	17	T11	HALF HIP GIRDER	1	1			
						Job Reference (option	nal)	
Builders FirstSc	ource (Lake Cit	y,FL), Lake City,	FL - 32055,		8.630 s Au	g 30 2023 MiTek Indus	stries, Inc. Thu Oct 5 10:30:50 2	2023 Page 1
				ID:Aa9owwL25A	NwAelNIrED	GNyk16k-RfC?PsB70	Hq3NSgPqnL8w3uITXbGKWrCI	Doi7J4zJC?f
, -1-6-0 ,	3-9-3	7-0-0	13-2-14	19-4-0	1	25-5-2	31-8-0	
1-6-0	3-9-3	3-2-13	6-2-14	6-1-2		6-1-2	6-2-14	1

Scale = 1:56.0



	1	7-0-0	. 13	3-2-14		19-4-0	- 4		25-5-2	!	31-8-0	
		7-0-0	6	-2-14		6-1-2			6-1-2		6-2-14	1
Plate Offse	ets (X,Y)	[2:0-4-0,0-1-15], [4:0-9-0	0-2-0], [10:Edg	e,0-3-8], [11	:0-4-0.0-2-4]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (1	oc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	0.32 12	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.50 12	14	>760	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07	10	n/a	n/a	W. A. a. C.	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	20.12					Weight: 216 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except*

1-4: 2x4 SP No.2

2x8 SP 2400F 2.0E BOT CHORD

2x4 SP No.3 *Except* WEBS

4-14,6-14,6-11,9-11: 2x4 SP No.2

REACTIONS. (size) 10=0-3-8, 2=0-3-8

Max Horz 2=139(LC 27)

Max Uplift 10=-1168(LC 5), 2=-1010(LC 8) Max Grav 10=2630(LC 1), 2=2403(LC 1)

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

2-3=-4770/2092, 3-4=-4640/2064, 4-5=-5726/2555, 5-6=-5726/2555, 6-8=-3674/1628, TOP CHORD

8-9=-3674/1628, 9-10=-2416/1088

2-15=-1938/4219, 14-15=-1887/4159, 12-14=-2488/5603, 11-12=-2488/5603 BOT CHORD WEBS

4-15=-280/727, 4-14=-815/1837, 5-14=-716/359, 6-12=-133/545, 6-11=-2225/1004,

8-11=-719/363, 9-11=-1845/4169

NOTES- (11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1168, 2=1010.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 234 lb down and 171 lb up at 7-0-0, 111 lb down and 89 lb up at 9-0-12, 111 lb down and 89 lb up at 11-0-12, 111 lb down and 89 lb up at 13-0-12, 111 lb down and 89 lb up at 15-0-12, 111 lb down and 89 lb up at 17-0-12, 111 lb down and 83 lb up at 19-0-12, 111 lb down and 89 lb up at 21-0-12, 111 lb down and 89 lb up at 23-0-12, 111 lb down and 89 lb up at 27-0-12, and 111 lb down and 89 lb up at 29-0-12, and 125 lb down and 88 lb up at 31-0-12 on top chord, and 325 lb down and 259 lb up at 7-0-0, 86 lb down and 59 lb up at 9-0-12, 86 lb down and 59 lb up at 11-0-12, 86 lb down and 59 lb up at 13-0-12, 86 lb down and 59 lb up at 15-0-12, 86 lb down and 59 lb up at 17-0-12, 86 lb down and 59 lb up at 21-0-12, 86 lb down and 59 lb up at 23-0-12, 86 lb down and 59 lb up at 25-0-12, 86 lb down and 59 lb up at 27-0-12, and 86 lb down and 59 lb up at 29-0-12, and 97 lb down and 53 lb up at 31-0-12 on bottom chord. The design/selection of such connection device(s) is the

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Structural wood sheathing directly applied or 2-4-15 oc purlins,

9-10, 6-11, 9-11

Rigid ceiling directly applied or 7-6-15 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regau PE. No. 88126 MITek Inc. DBA MITek USA FL. Cort 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 6,2023

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CW T31765699
3702922	T11	HALF HIP GIRDER	1	1	1.31703099
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:50 2023 Page 2 ID:Aa9owwL25ANwAeiNirEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES- (11)

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

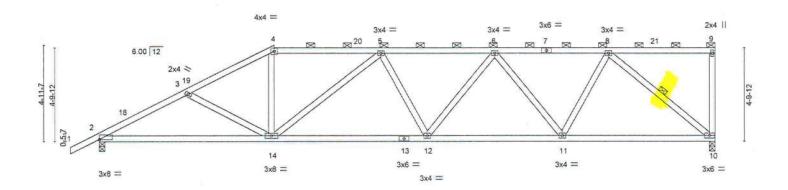
Concentrated Loads (lb)

Vert: 4=-187(B) 7=-111(B) 15=-325(B) 14=-63(B) 5=-111(B) 12=-63(B) 6=-111(B) 18=-111(B) 19=-111(B) 20=-111(B) 21=-111(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-125(B) 27=-63(B) 28=-63(B) 29=-63(B) 30=-63(B) 31=-63(B) 32=-63(B) 33=-63(B) 34=-63(B) 35=-63(B) 36=-69(B)



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CV	W	
		3557.	() () () () () () () () () ()	1 2			T31765700
3702922	T12	HALF HIP	1	1			
					Job Reference (optional)		
Builders FirstSource (Lake	City,FL), Lake City, FL - 3	2055,		8.630 s Aug	30 2023 MiTek Industries, Inc	. Thu Oct 5 10:30:51 2023	Page 1
District Artistic Str. Commission (Co.) Co.			ID:Aa9owwL25AN	wAeINIrED	GNyk16k-RfC?PsB70Hq3NSq	PgnL8w3uITXbGKWrCDoi7J	4zJC?f
, -1-6-0 , 4	6-15 , 9-0-0	, 14-5-12	20-4-0	1	26-2-4	31-8-0	
+-1-6-0 + 4 1-6-0 4	6-15 4-5-1	5-5-11	5-10-4	4	5-10-4	5-5-12	

Scale = 1:56.8



	-	9-0-0			16-10-3			23-9-1			31-8-0	
	- 1	9-0-0	1		7-10-3			6-11-9			7-10-4	The state of the s
Plate Offs	sets (X,Y)	[2:0-0-0,0-0-4]				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.13	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.29	12-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	-MS						Weight: 169 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3

REACTIONS. (size) 10=0-3-8, 2=0-3-8

Max Horz 2=168(LC 12)

Max Uplift 10=-289(LC 9), 2=-204(LC 9) Max Grav 10=1164(LC 1), 2=1249(LC 1)

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

2-3=-2132/406, 3-4=-1912/390, 4-5=-1657/364, 5-6=-2018/473, 6-8=-1504/353 TOP CHORD

2-14=-433/1856, 12-14=-497/2035, 11-12=-468/1882, 10-11=-300/1165 BOT CHORD

4-14=-79/567, 5-14=-570/201, 6-12=-25/251, 6-11=-619/189, 8-11=-114/730, WEBS

8-10=-1502/391

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 31-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=289, 2=204.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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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Structural wood sheathing directly applied or 3-10-7 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-11-1 max.): 4-9.

8-10

Rigid ceiling directly applied or 8-4-1 oc bracing.

1 Row at midpt

Philip J. O'Regen PE. No. S8126 MiTek Inc. DBA MiTek USA FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

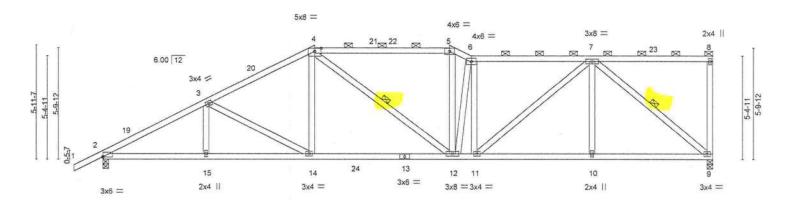
October 6,2023

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Job	Truss	Truss Type		Qty I	Ply	GIEBEIG HOMES - LO	DT 3 CW	
		CRANCE STATE OF THE PROPERTY O		100	200		T31769	5701
3702922	T13	ROOF SPECIAL		1	1			
						Job Reference (options	al)	. 1
Builders FirstSou	rce (Lake City,FL), Lake	City, FL - 32055,		8.6	630 s Aug	30 2023 MiTek Industr	ries, Inc. Thu Oct 5 10:30:52 2023 Page	1
			ID:Aa9	owwL25ANw	AelNIrED	GNyk16k-RfC?PsB70H	g3NSgPgnL8w3ulTXbGKWrCDoi7J4zJC?	/f
-1-6-0	5-4-6	11-0-0	18-0-0	19-1-8		25-4-12	31-8-0	
1-6-0	5-4-6	5-7-10	7-0-0	1-1-8		6-3-4	6-3-4	

Scale = 1:57.8



	75	5-4-6	11-0-0		18-0-0	19-1-8	25-4-	12	31-8-0	ï
		5-4-6	5-7-10		7-0-0	1-1-8	6-3-	4	6-3-4	
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-4], [4:0-4-0,0	-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 0.85	Vert(LL)	-0.17 12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.30 12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT	0.08 9	n/a	n/a		
BCDL	10.0	Code FBC2020/Ti	P12014	Matrix-MS	8.33				Weight: 192 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x4 SP No.3

(size) 9=0-3-8, 2=0-3-8

Max Horz 2=194(LC 12) Max Uplift 9=-268(LC 9), 2=-219(LC 12)

Max Grav 9=1256(LC 2), 2=1333(LC 2)

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

2-3=-2312/405, 3-4=-1930/372, 4-5=-1795/372, 5-6=-1946/387, 6-7=-1872/369 TOP CHORD

BOT CHORD 2-15=-464/2019, 14-15=-464/2019, 12-14=-358/1676, 11-12=-372/1885, 10-11=-268/1279,

9-10=-268/1279

3-14=-393/178, 4-14=-42/456, 4-12=-66/285, 5-12=-64/533, 6-12=-402/142,

7-11=-167/771, 6-11=-445/114, 7-10=0/276, 7-9=-1644/343

NOTES-(9)

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 18-0-0, Exterior(2E) 18-0-0 to 19-1-8, Interior(1) 19-1-8 to 31-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=268 2=219
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. SEL26 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Structural wood sheathing directly applied or 3-8-6 oc purlins,

Rigid ceiling directly applied or 8-8-5 oc bracing.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (2-9-7 max.): 4-5, 6-8.

4-12, 7-9

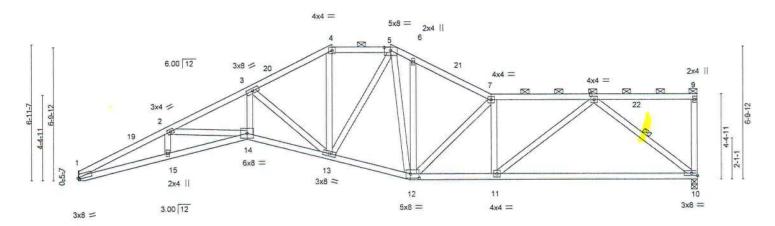
October 6,2023

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Job	Truss		Truss Type			Qty	Ply	GIEBEIG HOMES - LOT 3	cw	T31765702
3702922	T14		ROOF SPECIAL			1	1			A WOOD CONTRACTOR AND CONTRACTOR
								Job Reference (optional)	III Constitution of the Co	
Builders Firs	tSource (Lake City,FL),	Lake City, FL - 3	2055,					ig 30 2023 MiTek Industries,		
					ID:Aa9	owwL25AN	wAeINIrE	DGNyk16k-RfC?PsB70Hq3N	SgPqnL8w3uITXbGKWr0	CDoi7J4zJC?f
	4-7-0	8-7-12	13-0-0	16-0	0 17-0-0	21-1-	8	26-4-12	31-8-0	
	199	10.40	444	2.0	1 100	4 4 4	3	E 2 4	524	1

Scale = 1:56.4



		4-7-0 8-7-	12	13-0-0	, 17	7-0-0	21-1-8			31-8-0	
		4-7-0 4-0-	12	4-4-4	4	-0-0	4-1-8			10-6-8	
Plate Offs	ets (X,Y)	[1:0-0-9,0-0-10], [5:0-4-0	,0-1-15], [12:0-	-5-4,0-2-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.34 10-1	1 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.71 10-	1 >531	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.25	10 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	ix-MS					Weight: 190 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

1-14: 2x4 SP No.1

WEBS 2x4 SP No.3

(size) 1=Mechanical, 10=0-3-8

Max Horz 1=168(LC 12)

Max Uplift 1=-206(LC 12), 10=-240(LC 13) Max Grav 1=1166(LC 1), 10=1166(LC 1)

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

TOP CHORD

1-2=-3677/777, 2-3=-3501/786, 3-4=-1873/444, 4-5=-1623/425, 5-6=-1658/422,

6-7=-1718/395, 7-8=-2013/398 BOT CHORD 1-15=-801/3297, 14-15=-807/3328, 13-14=-735/3108, 12-13=-324/1510, 11-12=-404/2029,

10-11=-269/1223

3-14=-359/1675, 3-13=-1810/473, 4-13=-108/599, 5-13=-118/409, 5-12=-148/344,

7-12=-749/161, 7-11=-441/164, 8-11=-165/1011, 8-10=-1527/347

NOTES-(10)

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 19-0-0, Interior(1) 19-0-0 to 31-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=206, 10=240,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 2-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-7 max.): 4-5, 7-9.

8-10

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

Philip J. O'Regen PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Rhige Rd. Chesterfield, MO 63017

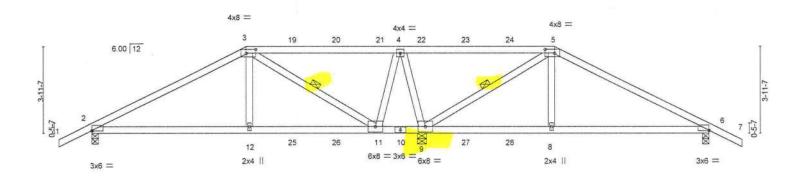
October 6,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 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 in an 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI Quality Criteria and DSB-22. available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CW	7-80-PMT-C-90-A112
	0.000000	The state of the s	10000	1000		T31765703
3702922	T15	HIP GIRDER	1	1		
					Job Reference (optional)	
Builders FirstSource	(Lake City, FL), Lake C	City, FL - 32055,		8.630 s Au	ug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:	30:54 2023 Page 1
			ID:Aa9owwL25A	ANWAeINIrE	DGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXb0	GKWrCDoi7J4zJC?f
-1-6-0	7-0-0	14-0-0		21-0-0	28-0-0	29-6-0
1-6-0	7-0-0	7-0-0		7-0-0	7-0-0	1-6-0

Scale = 1:50.5



						14-11-13						
	1	7-0-0	4	13-0-3		14-11-12	2	1-0-0			28-0-0	- P
	1	7-0-0		6-0-3		1-11-9 0-0-1	6	5-0-3			7-0-0	
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-4], [3:0-5-4.0	-2-0], [5:0-5-4	,0-2-0], [6:Edge	e.0-0-4]							
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	0.58	Vert(LL)	0.09 1	1-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.13 1	1-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.03	6	n/a	n/a	TOTAL TOTAL TOTAL TOTAL TOTAL	
BCDL	10.0	Code FBC2020/TI	PI2014	Matrix-	-MS	TO SEED BY A					Weight: 131 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

3-5: 2x4 SP 2850F 2.0E or 2x4 SP M 31

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS. (size) 2=0-3-8, 9=0-4-15, 6=0-3-8

Max Horz 2=62(LC 8)

Max Uplift 2=-338(LC 8), 9=-1260(LC 5), 6=-258(LC 9) Max Grav 2=882(LC 1), 9=2674(LC 1), 6=682(LC 1)

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

TOP CHORD 2-3=-1303/558, 4-5=-379/647, 5-6=-877/387

BOT CHORD 2-12=-464/1092 11-12=-473/1113 8-9=-293/734 6-8=-281/713

3-12=-240/689, 3-11=-1215/587, 4-11=-378/838, 4-9=-1776/831, 5-9=-1583/781, WEBS

5-8=-288/687

NOTES-(10)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=338. 9=1260. 6=258.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 234 lb down and 171 lb up at 7-0-0, 111 lb down and 89 lb up at 9-0-12, 111 lb down and 89 lb up at 13-0-12, 111 lb down and 88 lb up at 13-0-12, 111 lb down and 88 lb up at 14-11-4, 111 lb down and 89 lb up at 16-11-4, and 111 lb down and 89 lb up at 18-11-4, and 234 lb down and 171 lb up at 21-0-0 on top chord, and 325 lb down and 259 lb up at 7-0-0, 86 lb down and 59 lb up at 9-0-12, 86 lb down and 59 lb up at 11-0-12, 86 lb down and 59 lb up at 13-0-12, 86 lb down and 59 lb up at 16-11-4, and 86 lb down and 59 lb up at 18-11-4, and 325 lb down and 259 lb up at 20-11-4 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 4-3-6 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

Phillp J. O'Regan PE No. 58126 MITck Inc. DBA MITck USA FL Cert 6634 16925 Swingley Ridge Rd. Chesterfield, MO 63917

October 6,2023

LOAD CASE(S) Standard

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 shown, and is for an individual building component, not 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CW T31765703
3702922	T15	HIP GIRDER	1	1	131765763
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake

Lake City, FL - 32055,

8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct. 5 10:30:54 2023 Page 2 ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

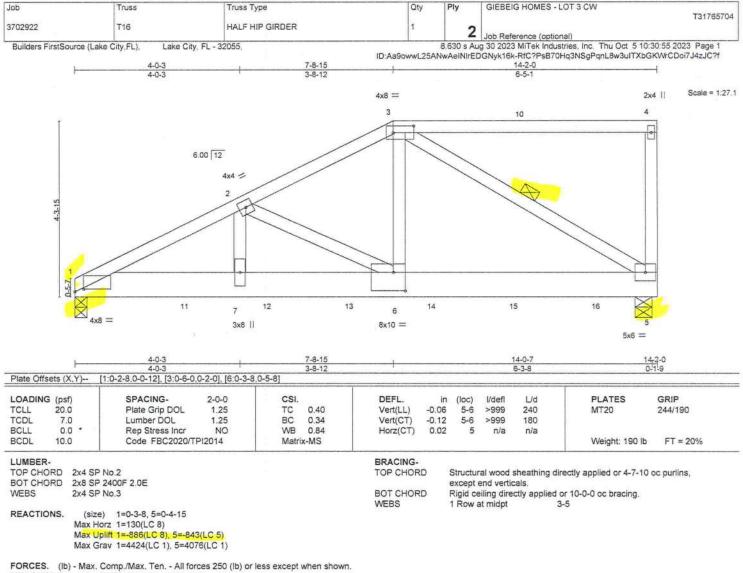
Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 5-7=-54, 13-16=-20

Concentrated Loads (lb)

Vert: 3=-187(B) 5=-187(B) 12=-325(B) 11=-63(B) 8=-325(B) 19=-111(B) 20=-111(B) 21=-111(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-63(B) 27=-63(B) 28=-63(B)





TOP CHORD 1-2=-

1-2=-6777/1383, 2-3=-4630/953

BOT CHORD 1-7=-1324/6045, 6-7=-1324/6045, 5-6=-909/4275

WEBS

2-7=-329/1759, 2-6=-2176/503, 3-6=-861/4384, 3-5=-4936/1048

NOTES- (11)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

6) Provide adequate drainage to prevent water ponding.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=886, 5=843.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1149 ib down and 223 lb up at 0-8-12, 1053 lb down and 229 lb up at 2-8-12, 1053 lb down and 229 lb up at 4-8-12, 1053 lb down and 229 lb up at 6-8-12, 1053 lb down and 229 lb up at 8-8-12, and 1051 lb down and 229 lb up at 10-8-12, and 1051 lb down and 229 lb up at 12-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. SW126 MITek Inc. DBA MITek USA. FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 6,2023

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 CW T31765704
3702922	T16	HALF HIP GIRDER	1	2	131765704
					Job Reference (optional)

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:55 2023 Page 2 ID:Aa9owwL25ANwAeINIrEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

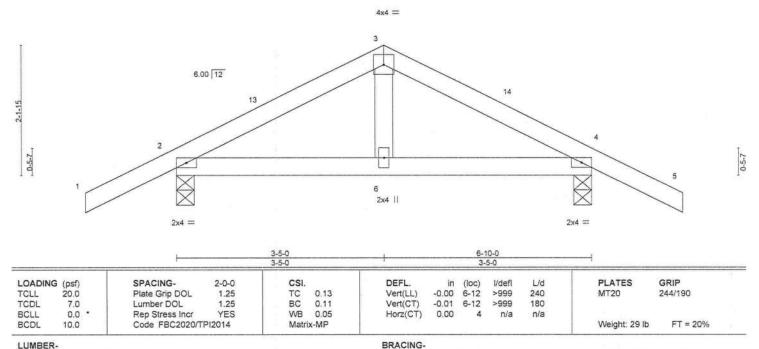
Vert: 1-3=-54, 3-4=-54, 1-5=-20

Concentrated Loads (lb)

Vert: 9=-1149(B) 11=-1053(B) 12=-1053(B) 13=-1053(B) 14=-1053(B) 15=-1051(B) 16=-1051(B)

uss	Truss Type		Ply	GIEBEIG HOMES - LOT 3 CW	AND THE WAY OF THE PARTY OF THE				
		100000	1		T31765705				
17	COMMON	1	1						
				Job Reference (optional)					
Builders FirstSource (Lake City.FL), Lake City. FL - 32055.			8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:56 2023 Page 1						
		ID:Aa9owwL25AI	wAeINIrED	GNyk16k-RfC?PsB70Hq3NSqPqnL8w	3ulTXbGKWrCDoi7J4zJC?f				
6-0	3-5-0	1	6-1	0-0	8-4-0				
3-0	3-5-0		3-	5-0	1-6-0				
1	17	17 COMMON (FL), Lake City, FL - 32055, 6-0 , 3-5-0	17 COMMON 1 ,FL), Lake City, FL - 32055, 6-0 , 3-5-0 ID:Aa9owwL25AN	17 COMMON 1 1 1 1 FL), Lake City, FL - 32055, 8.630 s Au ID:Aa9owwL25ANwAeiNirEC 6-0 , 3-5-0 6-1	17 COMMON 1 1 1 Job Reference (optional) FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Thu (ID:Aa9owwL25ANwAelNirEDGNyk16k-RfC?PsB70Hq3NSgPqnL8w 6-10-0 6-10-0				

Scale = 1:18.3



TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 4=0-3-8

Max Horz 2=-35(LC 13)

Max Uplift 2=-82(LC 12), 4=-82(LC 13) Max Grav 2=334(LC 1), 4=334(LC 1)

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

TOP CHORD 2-3=-281/147, 3-4=-281/147

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-5-0, Exterior(2R) 3-5-0 to 6-6-1, Interior(1) 6-6-1 to 8-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regnu PE No.58126 MITek inc. DBA MITek USA FI, Cert 8634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

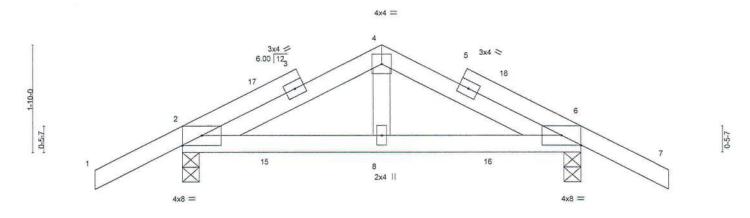
October 6,2023

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Job	Truss Type		Qty	Ply	GIEBEIG HOMES - LOT 3 CW				
3702922	T17G	GABLE	1	1			T31765706		
	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				Job Reference (optional)				
Builders FirstSour	ce (Lake City,FL), Lake C	ity, FL - 32055,	8.630 s Aug 30 2023 MiTek Industries, Inc. Thu Oct 5 10:30:57 2023 Page 1						
			ID:Aa9owwL25A	NwAeINIrE	DGNyk16k-RfC?PsB70Hq3NSg	PgnL8w3uITXbGKWr	CDoi7J4zJC?f		
	-1-6-0	3-5-0	The state of the s		6-10-0	8-4-0			
1-6-0		3-5-0			3-5-0	1-6-0			

Scale = 1:18.9



		 		3-5-0 3-5-0					3-10-0 3-5-0			
Plate Offs	ets (X,Y)	[2:Edge,0-2-1], [6:Edge,0)-2-1]									
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	0.24	Vert(LL)	0.01	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	(0 t)					Weight: 34 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=-31(LC 13) Max Uplift 2=-84(LC 12), 6=-84(LC 13) Max Grav 2=331(LC 1), 6=331(LC 1)

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

TOP CHORD 2-4=-265/421, 4-6=-265/421

BOT CHORD 2-8=-293/222, 6-8=-293/222

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-5-0, Exterior(2R) 3-5-0 to 6-8-4, Interior(1) 6-8-4 to 8-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Rogan PS. No. S8126 MITek Inc. DBA MITek USA FL Cort 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

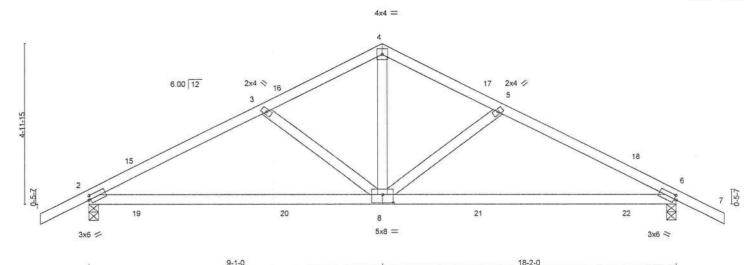
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Job	Truss Type			Qty	Ply	GIEBEIG HOMES - LOT 3 CW	
3702922	T18	COMMON		4			T31765707
3102922	110	COMMON				Job Reference (optional)	
Builders FirstSource (La	ke City,FL), Lake City, F	FL - 32055,				g 30 2023 MiTek Industries, Inc. Thu Oct 5 1	
				ID:Aa9owwL25AN	lwAeINIrED	GNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXb	GKWrCDoi7J4zJC?f
, -1-6-0 ,	5-6-1	1	9-1-0	12-7-	15	18-2-0	, 19-8-0
1-6-0	5-6-1		3-6-15	3-6-1	5	5-6-1	1-6-0

Scale = 1:34.5



9-1-0 Plate Offsets (X,Y) [2:0-0-12,0-1-8], [6:0-0-12,0-1-8], [8:0-4-0,0-3-0]							9-1-0						
LOADING TCLL TCDL		SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.39 0.75	DEFL. Vert(LL) Vert(CT)		(loc) 8-14 8-11	l/defl >965 >965	L/d 240 180	PLATES MT20	GRIP 244/190	
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2020/TF	YES PI2014	WB Matri	0.30 k-MS	Horz(CT)	0.02	6	n/a	n/a	Weight: 82 lb	FT = 20%	

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

> (size) 2=0-3-8, 6=0-3-8 Max Horz 2=76(LC 12)

Max Uplift 2=-179(LC 9), 6=-179(LC 8) Max Grav 2=753(LC 1), 6=753(LC 1)

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

TOP CHORD

2-3=-1051/960, 3-4=-810/881, 4-5=-810/881, 5-6=-1051/960

BOT CHORD

REACTIONS.

2-8=-787/891, 6-8=-799/891

WEBS

4-8=-716/522, 5-8=-281/226, 3-8=-281/226

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-1-0, Exterior(2R) 9-1-0 to 12-1-0, Interior(1) 12-1-0 to 19-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179 6=179
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 5-6-13 oc purlins.

Rigid ceiling directly applied or 5-10-9 oc bracing.

Phillp J. O'Regen PE No.58126 MiTek lac. DBA MITek USA FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

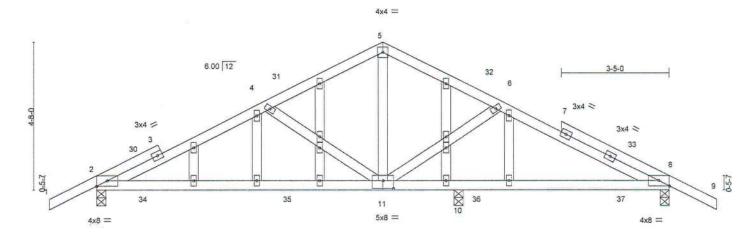
October 6,2023

▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 ANSITPH Quality Orteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss Type			Qty	Ply	GIEBEIG HOMES - LOT 3 CW		
3702922	T18G	GABLE		1	1		T31765708	
		CONTRACTOR OF THE PARTY OF THE				Job Reference (optional)		
Builders FirstSourc	e (Lake City FL), Lake (City, FL - 32055,			8.630 s A	ug 30 2023 MiTek Industries, Inc. Thu Oct 5 10	:30:58 2023 Page 1	
				ID:Aa9owwL25A	NwAeINIrE	DGNyk16k-RfC?PsB70Hq3NSgPqnL8w3uITXb0	GKWrCDoi7J4zJC?f	
-1-6-	0 , 5-(5-1	9-1-0	_ 1 1	2-7-15	18-2-0	19-8-0	
1-6-0	0 5-6	6-1	3-6-15		1-6-15	5-6-1	1-6-0	

Scale = 1:35.0



			9-1-0				11-7-8				18-2-0	
					2-6-8			6-6-8				
Plate Offse	ets (X,Y)	[2:Edge,0-2-1], [8:Edge,0	1-2-1], [11:0-4-0	0,0-3-0]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.26 11	-26	>521	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.26 11	-26	>523	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	10 10 10					Weight: 106 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 8=0-3-8, 10=0-3-8

Max Horz 2=72(LC 12)

Max Uplift 2=-166(LC 12), 8=-165(LC 13), 10=-42(LC 8) Max Grav 2=708(LC 1), 8=677(LC 1), 10=147(LC 3)

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

TOP CHORD 2-4=-978/875, 4-5=-725/735, 5-6=-718/733, 6-8=-955/828

BOT CHORD 2-11=-746/876, 10-11=-670/838, 8-10=-670/838 WEBS 5-11=-592/446, 6-11=-298/239, 4-11=-339/310

NOTES- (10)

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-1-0, Exterior(2R) 9-1-0 to 12-1-0, Interior(1) 12-1-0 to 19-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For stude 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=166, 8=165.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 4-9-10 oc purlins.

Rigid ceiling directly applied or 5-8-10 oc bracing.

Philip J. O'Regau PE No. S8126 MITek Inc. DBA MITek USA FL. Cert 6634 16025 Swingley Rhine Rd. Chesterfield, MO 63017 Date:

October 6,2023

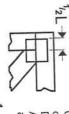
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 designens twenty verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chard 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



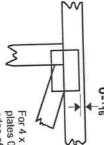
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.

Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4×2 orientation, locate plates 0- ${}^{1}_{16}{}^{0}$ from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 × 4

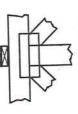
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur Min size shown is for crushing only.

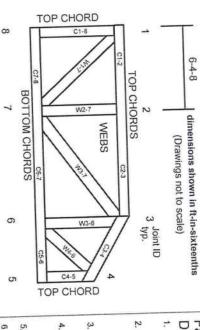
Industry Standards:

ANSI/TP11: National Design Specification for Metal
Plate Connected Wood Truss Construction.

DSB-22:

Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek Engineering Reference Sheet. MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear lightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator, General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or after 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.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.



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

RE: 2718981 - DETAILS

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: DETAILS Project Name: N/A Model: N/A

Lot/Block: N/A

Subdivision: N/A

Address: N/A, N/A

State: N/A

City: N/A

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

License #:

Address:

City:

State:

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

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 20 individual, General Truss Details 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. 1234567891112314	Seal# T23399806 T23399807 T23399809 T23399810 T23399811 T23399813 T23399813 T23399814 T23399816 T23399816 T23399816 T23399818 T23399818	Detail Name MII-REP10 MII-T-BRACE 2 MII-SCAB-BRACE MII-REP05 MII-GE130-D-SP MII-GE130-SP MII-GE140-001 MII-GE170-D-SP MII-GE180-D-SP MII-GE180-D-SP MII-PIGGY-ALT-7-16 MII-REP01A1 MII-TOENAIL SP MII-VALLEY HIGH WIND1	Date 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21	No. 15 16 17 18 19 20	Seal# T23399820 T23399821 T23399822 T23399823 T23399824 T23399825	Detail Name MII-VALLEY HIGH WIND2 MII-VALLEY SP MII-VALLEY SP MII-GE146-001 MII-REP13B MII-STRGBCK	Date 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21 4/2/21
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This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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: ORegan, Philip My license renewal date for the state of Florida is February 28, 2023.

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.



Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021



RE: \$JOBNAME - \$JOBDESC

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: \$SI_CUSTOMER Project Name: \$SI_JOBNAME Model: \$SI_MODEL

Subdivision: \$SI_SUBDIV

Lot/Block: \$SI_LOTNUM Address: \$SI_SITEADDR City: \$SI_SITECITY

State: \$SI_SITESTATE

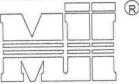
OCTOBER 28, 2016

STANDARD REPAIR FOR ADDING A FALSE BOTTOM CHORD

MII-REP10 T23399806

MiTek USA, Inc.

Page 1 of 1



MiTek USA, Inc.

MAIN TRUSS MANUFACTURED WITHOUT FALSE BOTTOM CHORD.

MAIN TRUSS (SPACING = 24" O.C.)

REFER TO THE BOTTOM CHORD BRACING SECTION OF THE INDIVIDUAL TRUSS DESIGN FOR MAXIMUM SPACING OF CONTINUOUS LATERAL BRACING WHENEVER RIGID CEILING MATERIAL IS NOT DIRECTLY ATTACHED TO THE BOTTOM CHORD. VERTICAL STUDS @ 48" O.C.. ATTACHED WITH (3) - 10d (0.131" X 3") NAILS AT EACH END OF VERTICAL (TYP.). VERTICAL STUDS TO BE 2 x 4 STUD GRADE (OR BETTER) SPF, HF, DF OR SP. (BOARD SIZE SPECIFIED IS MINIMUM, LARGER SIZE MAY BE USED) 2 x 4 NO. 2 (OR BETTER) SPF, HF DF OR SP FALSE BOTTOM CHORD (BOARD SIZE SPECIFIED IS MINIMUM, LARGER SIZE MAY BE USED) FALSE BOTTOM TRUSS SPAN

NOTES:

- 1. LOADING: TOP CHORD: (REFER TO THE MAIN TRUSS DESIGN FOR TOP CHORD LOADING).
 BOTTOM CHORD: LL = 0 PSF, DL = 10 PSF.
- 2. REFER TO THE MAIN TRUSS DESIGN FOR LUMBER AND PLATING REQUIREMENTS.
- 3. MAXIMUM BOTTOM CHORD PITCH = 6/12.
- 4. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 5. FALSE BOTTOM CHORD ONLY DESIGNED TO CARRY VERTICAL LOAD. NO LATERAL (SHEAR) LOAD ALLOWED.
- FILLER MAY EXTEND FOR FULL LENGTH OF TRUSS.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8834 6804 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 5/19/2020 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 Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway. Suite 203 Waldorf, MD 20601

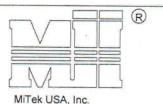


T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2 T23399807

MiTek USA, Inc.

Page 1 of 1



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	size Nail Size				
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)

	Nails	
	SPACING	
WEB		
	T-BRACE	A
vails	Section Detail	

Nails	
Web	I-Brace
Nails	

T-Brace

Brace Size for One-Ply Truss			
Specified Rows of La	Continuous ateral Bracing		
1	2		
2x4 T-Brace	2x4 I-Brace		
2x6 T-Brace	2x6 I-Brace		
2x8 T-Brace	2x8 I-Brace		
	Specified Rows of La 1 2x4 T-Brace 2x6 T-Brace		

		ce Size -Ply Truss
		Continuous ateral 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8634 6904 Parke East Bivd. Tampa FL 33610 Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 5/19/2020 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 property 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

ANTIFYT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

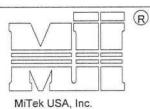


SCAB-BRACE DETAIL

MII-SCAB-BRACE T23399808

MiTek USA, Inc.

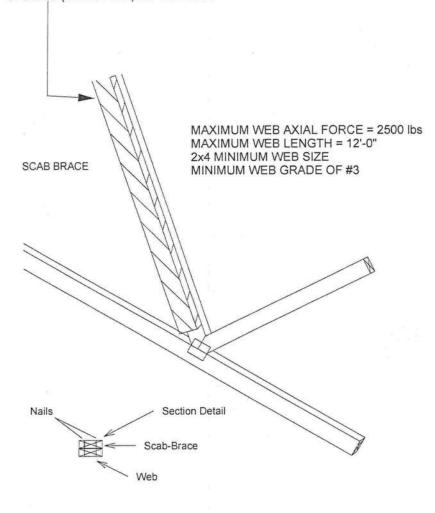
Page 1 of 1



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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rav. 5/19/2020 BEFORE USE.

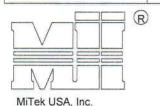
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **AMSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

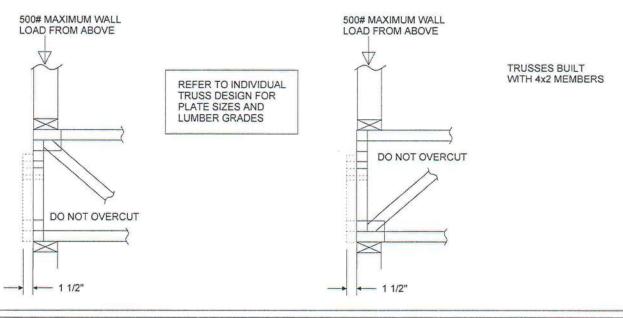
MII-REP05 T23399809

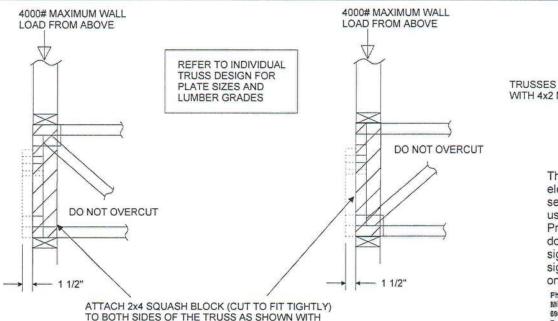
MiTek USA, Inc. Page 1 of 1



- 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.





TRUSSES BUILT WITH 4x2 MEMBERS

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April 2,2021

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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

10d (0.131" X 3") NAILS SPACED 3" O.C.

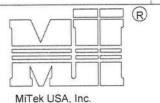


Standard Gable End Detail

MII-GE130-D-SP T23399810

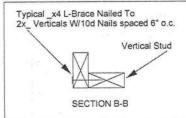
Page 1 of 2

MiTek USA, Inc.



DIAGONAL BRACE

4'-0" O.C. MAX



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss

> SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

> > 3x4 =

Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x Verticals w/(4)-10d Nails SECTION A-A 2x4 Stud

> 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.

"L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB

OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 5" 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)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. 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. NAILS DESIGNATED 10d ARE (0.131" X 3") AND

NAILS DESIGNATED 16d ARE (0.131" X 3.5")

24" Max	T T	М	9	, M	1	/ 		77
		1'-3" Max.	(2) - NAIL	10d			(2) -	10d NAILS
					1/1	russe	s @ 2	24" o.c.
at 1	g. Brace /3 points /			ATTACH NAILS A	GONAL B HED TO V ND ATTA ICKING W	ERTICAL CHED	WITH (4) -16d
	End Wal		\	_			L BRAC ON A-A)	

Minimum Stud Size Species		Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade			Maximu	m Stud Lei	ngth	
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

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April 2,2021

ASCE 7-02 ASCE 7-05 130 MPH

ASCE 7-10 160 MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

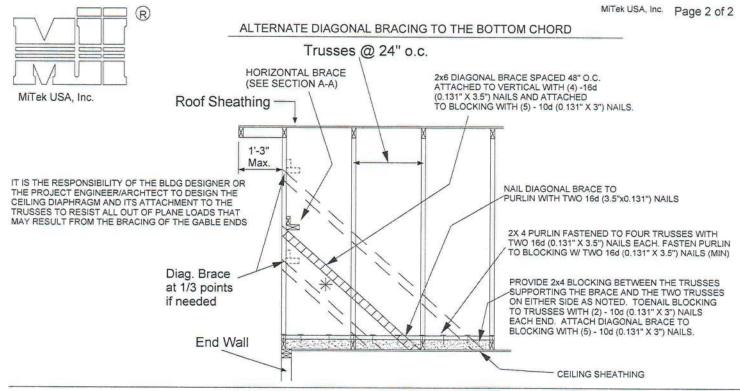
DURABLE ON THE OLD DESIGN IS BASED ON COMPONENTS AND CLADDING.

Design valid for use only with MTRKS connectors. This design is based only upon parameters and properly incorporate his 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/PTI Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



6904 Parke East Blvd.



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

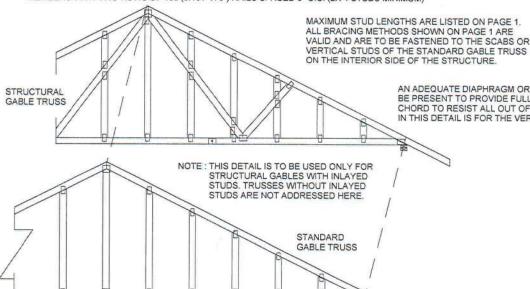
FOLLOWING NAILING SCHEDULE.

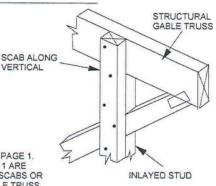
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL

MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





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

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ANSI/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway. Suite 203 Waldorf, MD 20801



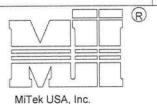
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Standard Gable End Detail

MII-GE130-SP T23399811

Page 1 of 2

MiTek USA, Inc.



DIAGONAL BRACE

4'-0" O.C. MAX

Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING

DRAWINGS FOR DESIGN CRITERIA

3x4 =

24"

Vertical Stud (4) - 16d Nails BRACE 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A 2x4 Stud

> 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" X2.5") 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

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)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

' Max	N MITTAN
1'-3" Max.	(2) - 10d NAILS (2) - 10d NAILS
,	Trusses @ 24" o.c
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade			Maximu	m Stud Lei	ngth	
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 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

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING **EXPOSURE B or C**

end distance. Brace must cover 90% of diagonal length.

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April 2,2021

ASCE 7-98, ASCE 7-02 ASCE 7-02. ASCE 7-05 130 MPH

ASCE 7-101. ASCE 7-15 150 MPH

ASCE 7-102. ASCE 7-15 150 MPH

ASCE 7-103. ASCE 7-15 150 MPH

ASCE 7-104. ASCE 7-15 150 MPH

ASCE 7-105 ASCE 7-15 150 MPH

ASCE 7-106 ASCE 7-15 150 MPH

ASCE 7-107 ASCE 7-15 150 MPH

ASCE 7-107 ASCE 7-15 150 MPH

ASCE 7-108 ASCE 7-107 ASCE 7-15 150 MPH

ASCE 7-108 ASCE 7-107 ASCE 7-15 150 MPH

ASCE 7-108 ASCE 7-108 MWTRSW. 5/19/2020 BEFORE USE.

Design valid for use only with MTEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designs rmust verify the applicability of design parameters and property 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

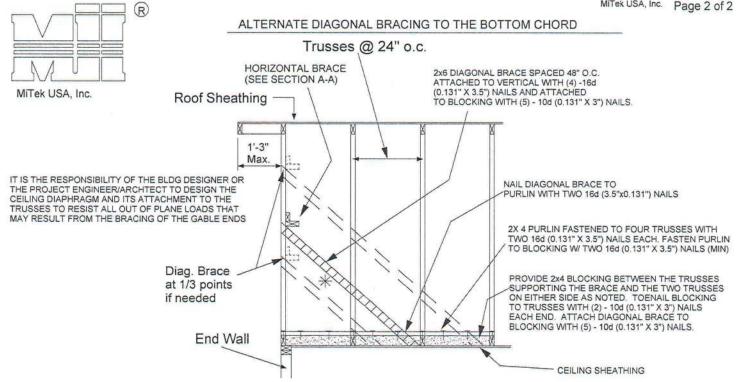
ANSI/TPI Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Standard Gable End Detail

MII-SHEET 2 T23399811

MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

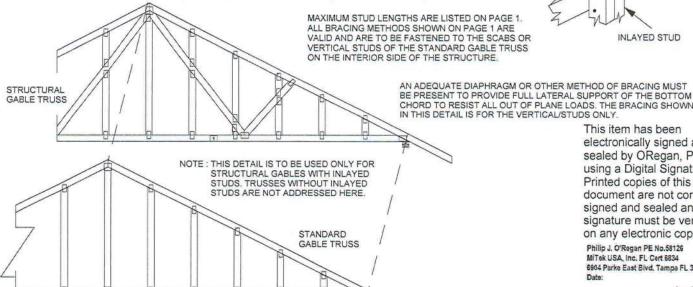
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

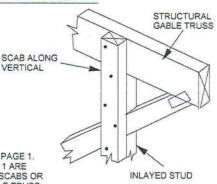
METHOD 2: ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. - FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





CHORD TO RESIST ALL OUT OF PLANE LOADS, THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY. This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered

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April 2,2021

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MII-GE140-001 Standard Gable End Detail **JANUARY 6, 2017** T23399812 MiTek USA, Inc. Page 1 of 2 Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud Vertical Stud DIAGONAL (4) - 16d Nails BRACE MiTek USA, Inc. 16d Nails Spaced 6" o.c. SECTION B-B (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A 2x4 Stud PROVIDE 2x4 BLOCKING BETWEEN THE FIRST Varies to Common Truss TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA (5) - 10d NAILS. (4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK 3x4 = В Roof Sheathing ** - L-Bracing Refer * - Diagonal Bracing to Section B-B Refer to Section A-A 24" Max 1'-3" (2) - 10dNOTE: Max. NAILS 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. (2) - 10d NAILS 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT Trusses @ 24" o.c. 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 2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d Diag. Brace BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. NAILS AND ATTACHED at 1/3 points ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. TO BLOCKING WITH (5) - 10d NAILS. if needed

End Wall

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximu	m Stud Le	ngth	
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 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.

(REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

 NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING FXPOSLIRE B or C

TYPE TRUSSES.

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HORIZONTAL BRACE

(SEE SECTION A-A)

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April 2,2021

ASCE 7-98, ASCE 7-02, ASCE 7-05

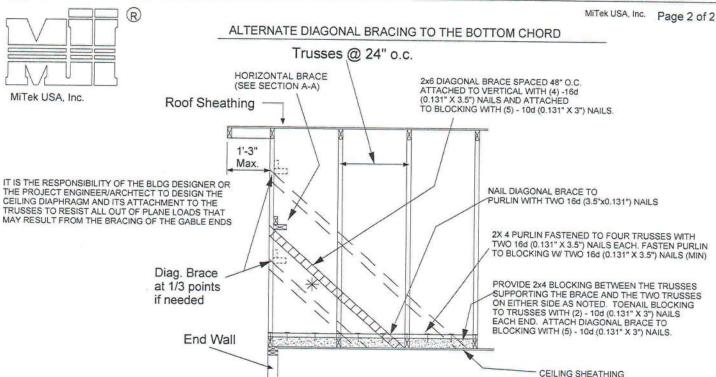
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANCOMPONE CADMINOREASE IN 60 READ CONNECTION OF BRACENGTS BASED ON MAFFRS 173 rev. 5/19/2029 BEFORE USE.

Design valid for use only with MiTeke 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

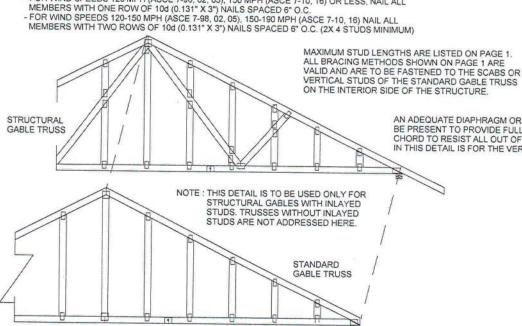
FOLLOWING NAILING SCHEDULE.

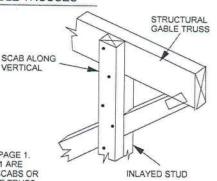
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL

MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL





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

VERTICAL

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Philip J. O'Regan PE No.58126 MiTek USA Inc. FL Cert 8634 6904 Parke East Blvd, Tampa FL 33610

April 2,2021

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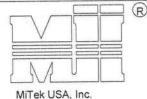


Standard Gable End Detail

MII-GE170-D-SP T23399813



Page 1 of 2



DIAGONAL BRACE

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

4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA ** 3x4 = - L-Bracing Refer

to Section B-B

Vertical Stud 2X6 SP OR SPF No. 2 (4) - 16d Nails DIAGONAL BRACE 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 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

NOTE

- Diagonal Bracing

Refer to Section A-A

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.

"I" 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)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. 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.

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Doof Cheathing	
Roof Sheathing —	
T N N	
1'-0" (2) Max. NA	- 10d
NA NA	(2) - 10d NAILS
1/2	**
	Trusses @ 24" o.c.
Diag. Brace	
at 1/3 points /	2x6 DIAGONAL BRACE SPACED
if needed	48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO
[15-3]	BLOCKING WITH (5) -10d NAILS.
End Wall	HORIZONTAL BRACE
2113 774411	(SEE SECTION A-A)

Minimum Stud Stud Size Spacing		Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
Species and Grade		Maximum Stud Length					
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 I-braces attached to both edges. Fasten T and I 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 I braces must be 2x4 SPF No. 2 or SP No. 2.

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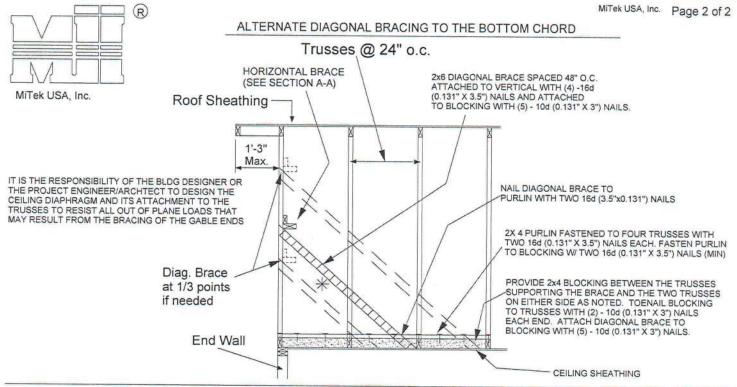
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8634 6804 Parke East Blvd. Tampa FL 33610

April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

DURATION OF LOAD, INCREASE 11 SO READ NOTE SONNESTION OF BRACK & PRESED ON MATERIA SU19/2020 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

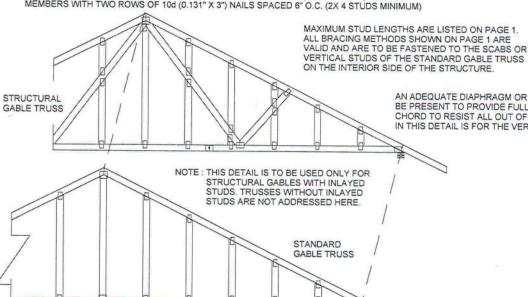
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

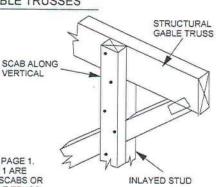
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. -FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





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

VERTICAL

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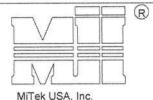


Standard Gable End Detail

MII-GE180-D-SP T23399814



Page 1 of 2



DIAGONAL BRACE 4'-0" O.C. MAX Typical 2x4 L-Brace Nailed To 2x4 Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

12

Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

3x4 = (4) - 8d (0.13 SHEATHING

24

Vertical Stud

(4) - 16d Nails

2X6 SP OR SPF No. 2
DIAGONAL BRACE

16d Nails
Spaced 6" o.c.

(2) - 10d Nails into 2x6

2X6 SP OR SPF No. 2

Typical Horizontal Brace
Nailed To 2x4 Verticals
W/(4)-10d Nails

SECTION A-A

2X4 SP OR SPF No. 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

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.

- CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 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.
- 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.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIBIALSC.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

"Max	
1'-0" Max.	(2) - 10d NAILS
1	7russes @ 24" o.c.
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
Species and Grade		Maximum Stud Length					
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 I-braces attached to both edges. Fasten T and I 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 I braces must be 2x4 SPF No. 2 or SP No. 2.

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April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

SCET 10, ASCET 18 MPH STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

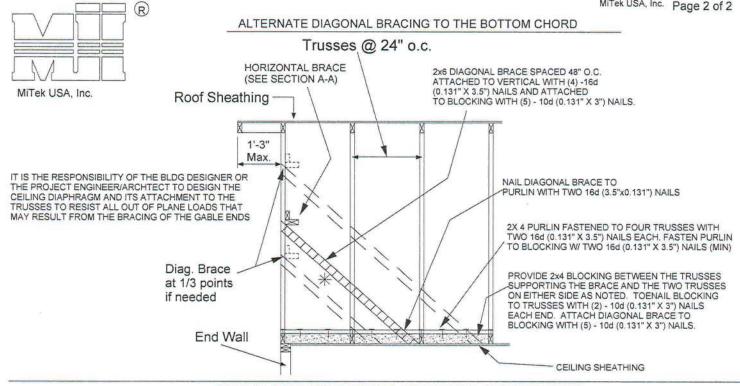
DURATION OF CAR, INCORPANSE Lists AREAD NOTE SCONNE ATION OF BRACK REASED ON IMMORS. 5:19:2020 BEFORE USE.

Design valid for use only with MITEKS 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

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MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

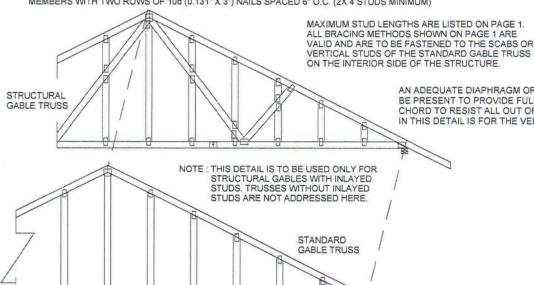
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

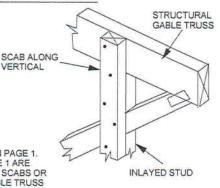
METHOD 2: ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
 FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





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

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STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-7-16 T23399815

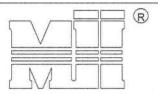
MiTek USA, Inc. Page 1 of 1

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

ENCLOSED BUILDING LOADING = 5 PSF TCDL ASCE 7-10, ASCE 7-16

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.



MiTek USA, Inc.

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WATH (2) (0.134" x 3.5") TOE MAIL ED

WITH (2) (0.131" X 3.5") TOE-NAILED.

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

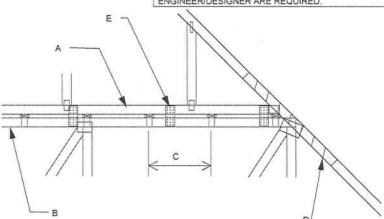
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.

UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X __ X 4'-0" SCAB, SIZE 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 180 MPH WITH A MAXIMUM

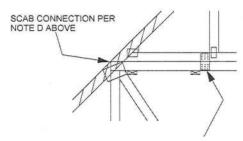
WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEEDS BETWEEN 116 AND 180 MPH, ATTACH MITEK NP37 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" NAIL EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

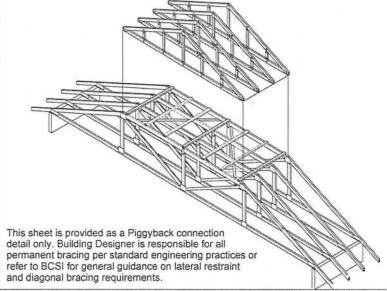


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS.

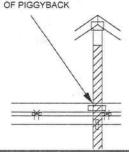
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH NAIL-ON PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK NP37 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" NAIL EDGE DISTANCE.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD



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

 VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.

2) ATTACH 2 x ___ x 4-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)

3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS

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

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Bivd. Tampa FL 33610 Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSITPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT-7-16 T23399816

Page 1 of 1 MiTek USA, Inc.

R

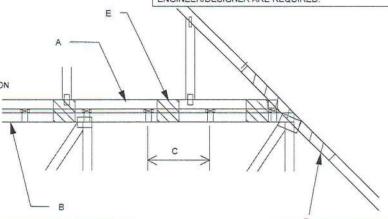
MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ENCLOSED BUILDING** LOADING = 5 PSF TCDL MINIMUM ASCE 7-10, ASCE 7-16 DURATION OF LOAD INCREASE: 1.60

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

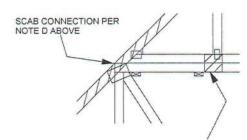
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) 0(0.131" X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
 CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
 D 2 X _ X 4"-0" SCAB, SIZE 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 CONTINUIOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH 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 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft. E FOR WIND SPEED IN THE RANGE 116 MPH 180 MPH ADD 9" x 9" 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)

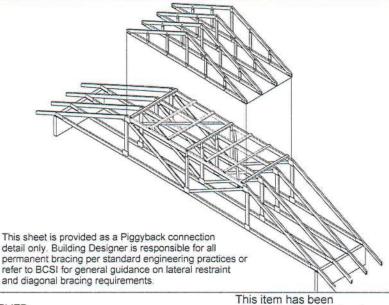


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

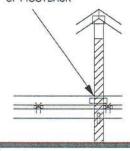
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



 $7"\times 7"\times 1/2"$ 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)



VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



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

- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 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

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Philip J. O'Regan PE No.58126 MiTak USA Inc. FL Cert 6634 6904 Parke East Slvd. Tampa FL 33610

April 2,2021

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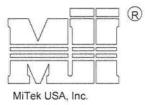


STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1 T23399817

MiTek USA, Inc.

Page 1 of 1

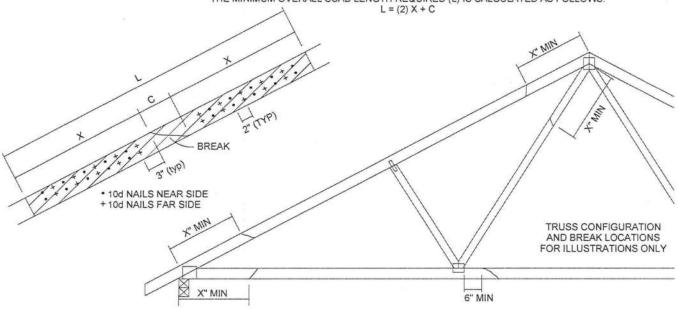


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *			MAXIMUM FORCE (Ibs) 15% LOAD DURATION							
		X	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
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:



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

- 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. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021

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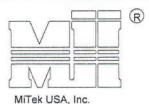


LATERAL TOE-NAIL DETAIL

MII-TOENAIL_SP T23399818

MiTek USA, Inc.

Page 1 of 1



NOTES:

- 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.
- THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 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	V

	DIAM.	SP	DF	HF	SPF	SPF-S
9	.131	88.0	80.6	69.9	68.4	59.7
ON	.135	93.5	85.6	74.2	72.6	63.4
3.5" LONG	.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

SIDE VIEW
(2x3)
2 NAILS

NEAR SIDE

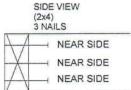
VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

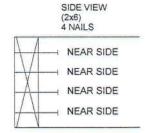
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

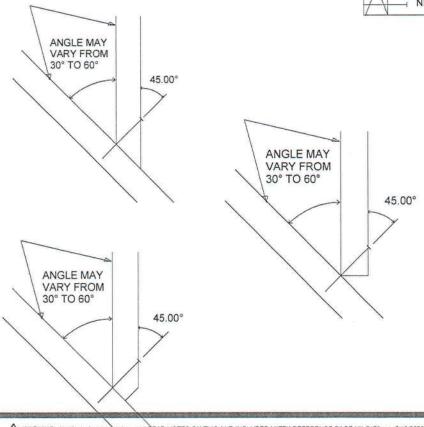
EXAMPLE:

(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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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



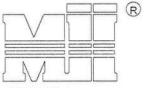
904 Parke East Blvd.

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1 T23399819

MiTek USA, Inc.

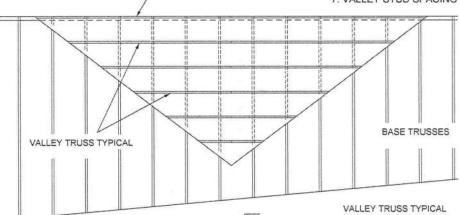
Page 1 of 1



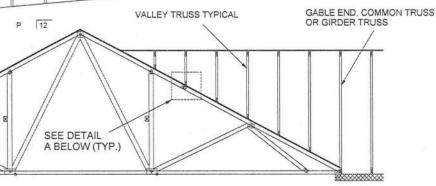
MiTek USA, Inc.

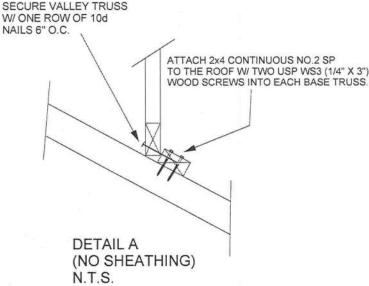
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- WOOD SCREW = 3" WS3 ÚSP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT 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.



GABLE END, COMMON TRUSS OR GIRDER TRUSS





WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 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 TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES
This item

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April 2,2021

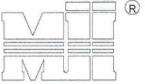


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2 T23399820

MiTek USA, Inc.

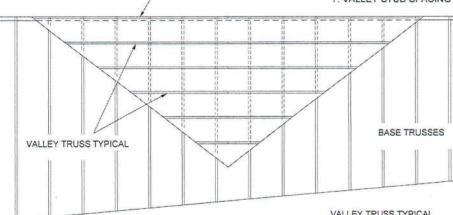
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

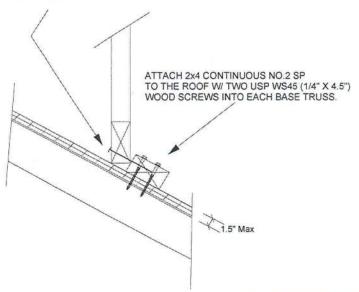
- 1. NAIL SIZE 10d (0.131" X 3") 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- 4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A 5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING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



GABLE END, COMMON TRUSS OR GIRDER TRUSS

> GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

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, ASCE 7-16 160 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)

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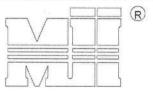


TRUSSED VALLEY SET DETAIL

MII-VALLEY SP T23399821

MiTek USA, Inc.

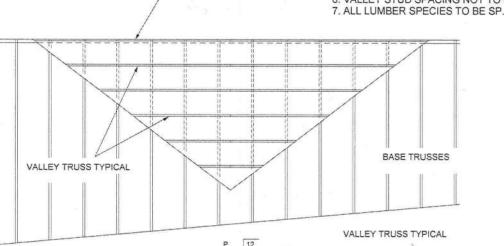
Page 1 of 1



MiTek USA, Inc.

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 EQUILIVANT 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.



GABLE END, COMMON TRUSS

OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL A BELOW (TYP.) SECURE VALLEY TRUSS

W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 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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April 2,2021

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TRUSSED VALLEY SET DETAIL

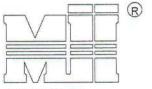
GABLE END, COMMON TRUSS

OR GIRDER TRUSS

MII-VALLEY SP T23399822

MiTek USA, Inc.

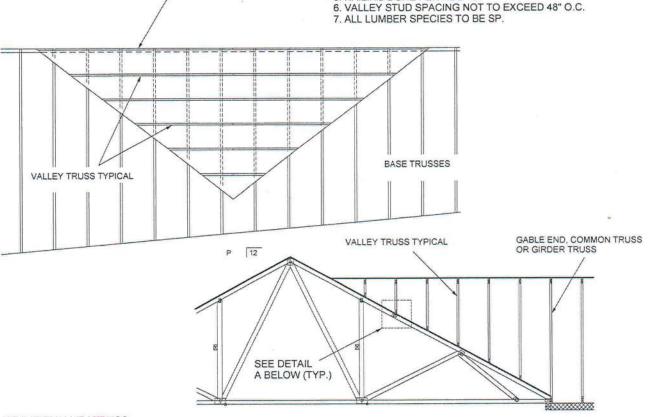
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
- INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01



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

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

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

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 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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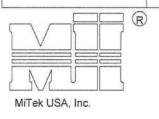
April 2,2021



Standard Gable End Detail

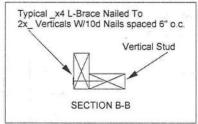
MII-GE146-001 T23399823

MiTek USA, Inc.



DIAGONAL BRACE

4'-0" O.C. MAX



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

DRAWINGS FOR DESIGN CRITERIA

3x4 =

Page 1 of 2 Vertical Stud (4) - 16d Nails DIAGONAL BRACE 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A 2x4 Stud

> 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.

- Diagonal Bracing Refer to Section A-A

- L-Bracing Refer to Section B-B

**

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

(2) - 10d

NAILS

Roof Sheathing

1'-3"

Max.

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.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 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

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(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DUR MONFORG OAD/INCREASE 11.60 READ CONNECTION OF BRACENCIES BASED OF PROFERS 173 rev. 5/19/2020 BEFORE USE. Testight valid for use only with MiTeke 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component

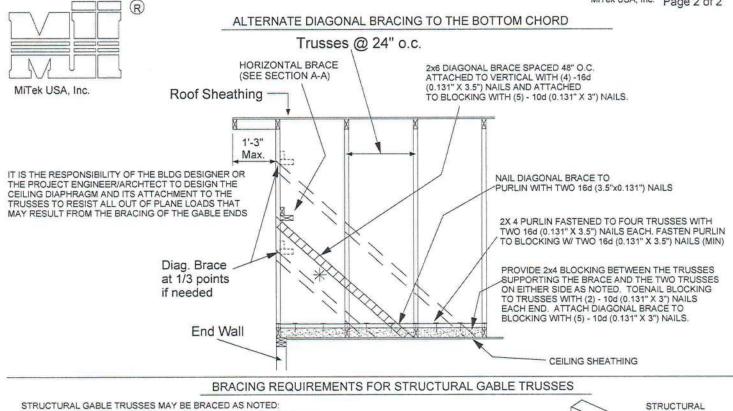
**Sefert Infraration available from Tures Bitted Institute 2870 Crain Fishbours Suite 238 Weldorf M.D. 2001. Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Standard Gable End Detail

MII-SHEET 2 T23399823

MiTek USA, Inc. Page 2 of 2



STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE
FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE
FOLLOWING NAILING SCHEDULE.
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL

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

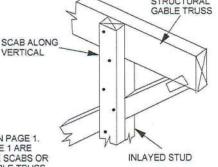
NAILING SCHEDULE

STRUCTURAL

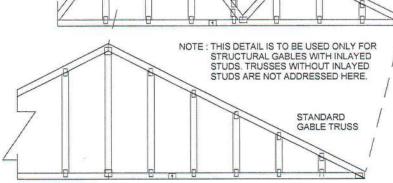
GABLE TRUSS

 FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
 FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL





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



This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J, O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8634 6904 Parke East Bivd. Tampa FL 33610 Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 property 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 AMSICTPI Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



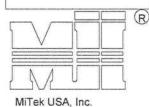
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B T23399824

MiTek USA, Inc.

Page 1 of 1



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

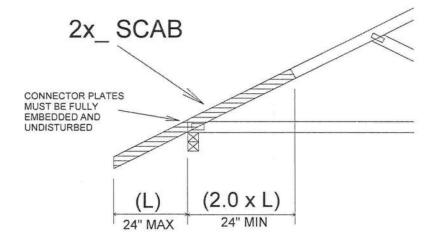
END BEARING CONDITION

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.

 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 This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSITPI Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 8634 6804 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 property 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801

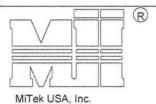


LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK T23399825

MiTek USA, Inc.

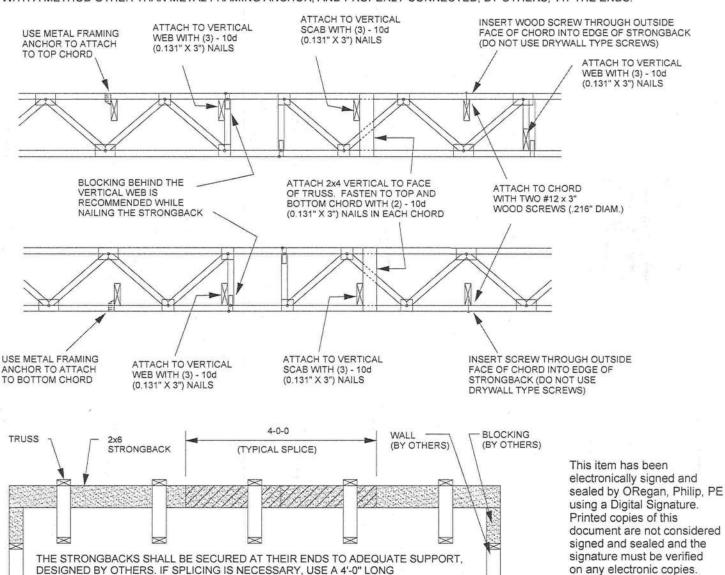
Page 1 of 1



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:

(0.131" X 3") NAILS EQUALLY SPACED.

OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d

TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL!

(0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.

SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d

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Philip J. O'Regan PE No.58126

MiTek USA, Inc. FL Cert 8834

April 2,2021

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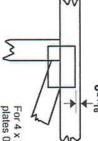
MiTek

Symbols

PLATE LOCATION AND ORIENTATION



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



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

required direction of slots in connector plates This symbol indicates the

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



number where bearings occur.

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

Industry Standards:

ANSI/TPI1:

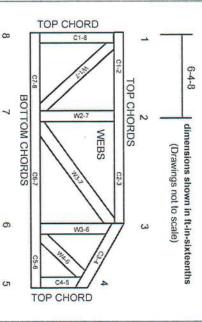
National Design Specification for Metal Guide to Good Practice for Handling, **Building Component Safety Information** Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89

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

ER-3907, ESR-2362, ESR-1397, ESR-3282 ESR-1311, ESR-1352, ESR1988

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

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

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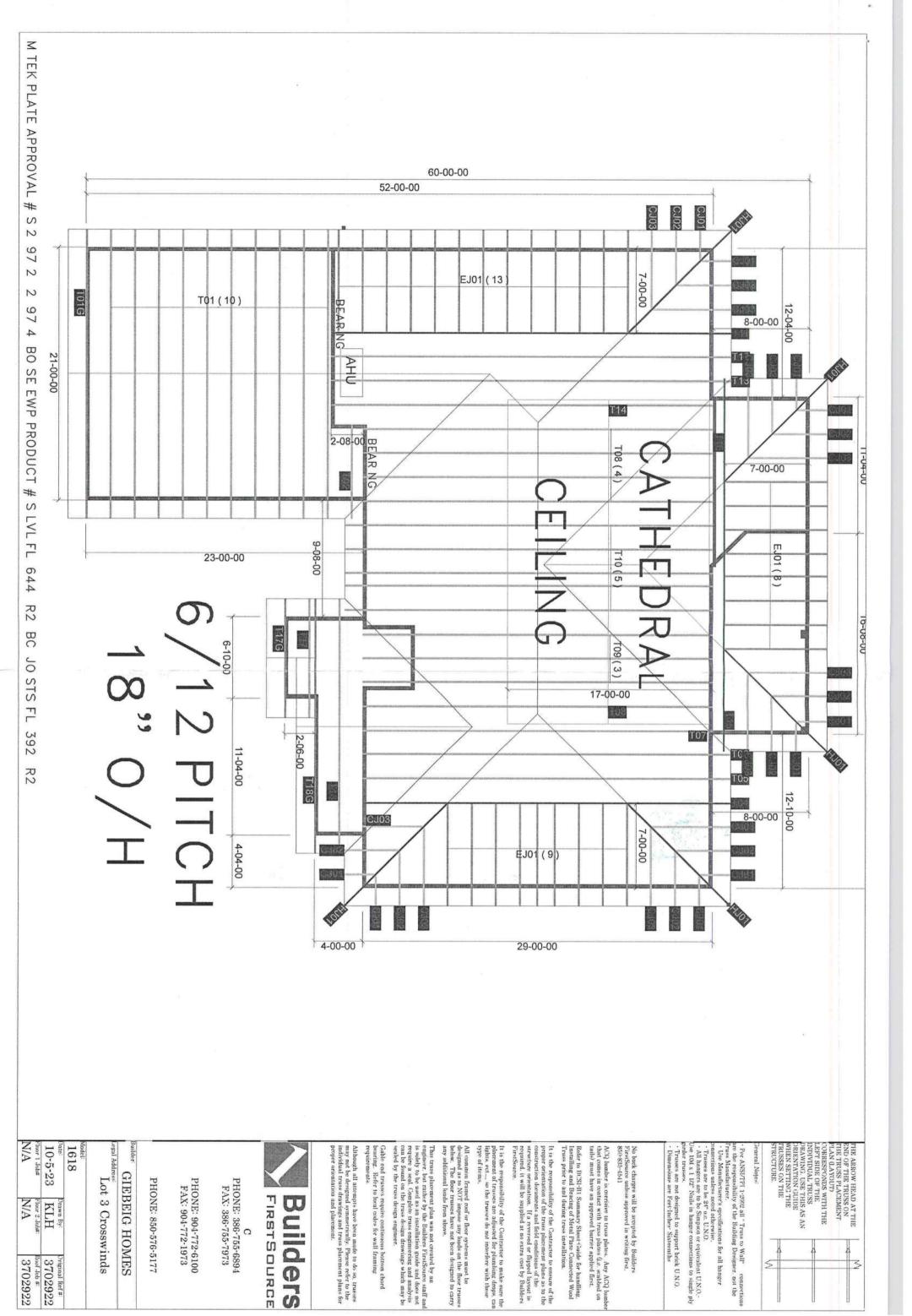


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSL
- 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.
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- shall not exceed 19% at time of fabrication. Unless otherwise noted, moisture content of lumber
- use with fire retardant, preservative treated, or green lumber. Unless expressly noted, this design is not applicable for
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- or less, if no ceiling is installed, unless otherwise noted Bottom chords require lateral bracing at 10 ft. spacing.
- Connections not shown are the responsibility of others
- . Do not cut or alter truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.



Original Ref #: 3702922 Roof Job #: