



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

RE: 2228807 - D and G Properties - Spec Hse

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: D and G PROPERTIES Project Name: Spec Hse Model: 2065
Lot/Block: N/A Subdivision: N/A
Address: 551 SE Plant Street, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

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

This package includes 39 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T21387777	CJ01	9/23/20	23	T21387799	T06	9/23/20
2	T21387778	CJ01A	9/23/20	24	T21387800	T07	9/23/20
3	T21387779	CJ03	9/23/20	25	T21387801	T08	9/23/20
4	T21387780	CJ03A	9/23/20	26	T21387802	T08G	9/23/20
5	T21387781	CJ05	9/23/20	27	T21387803	T09	9/23/20
6	T21387782	CJ05A	9/23/20	28	T21387804	T10	9/23/20
7	T21387783	EJ01	9/23/20	29	T21387805	T10G	9/23/20
8	T21387784	EJ01A	9/23/20	30	T21387806	T11	9/23/20
9	T21387785	EJ02	9/23/20	31	T21387807	T12	9/23/20
10	T21387786	HJ10	9/23/20	32	T21387808	T13	9/23/20
11	T21387787	HJ10A	9/23/20	33	T21387809	T13G	9/23/20
12	T21387788	PB01	9/23/20	34	T21387810	T14	9/23/20
13	T21387789	PB01G	9/23/20	35	T21387811	T15	9/23/20
14	T21387790	PB02	9/23/20	36	T21387812	T15G	9/23/20
15	T21387791	PB02G	9/23/20	37	T21387813	T16	9/23/20
16	T21387792	T01	9/23/20	38	T21387814	T16G	9/23/20
17	T21387793	T01G	9/23/20	39	T21387815	V01	9/23/20
18	T21387794	T02	9/23/20				
19	T21387795	T03	9/23/20				
20	T21387796	T03G	9/23/20				
21	T21387797	T04	9/23/20				
22	T21387798	T05	9/23/20				



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: Lee, Julius

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

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek 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.



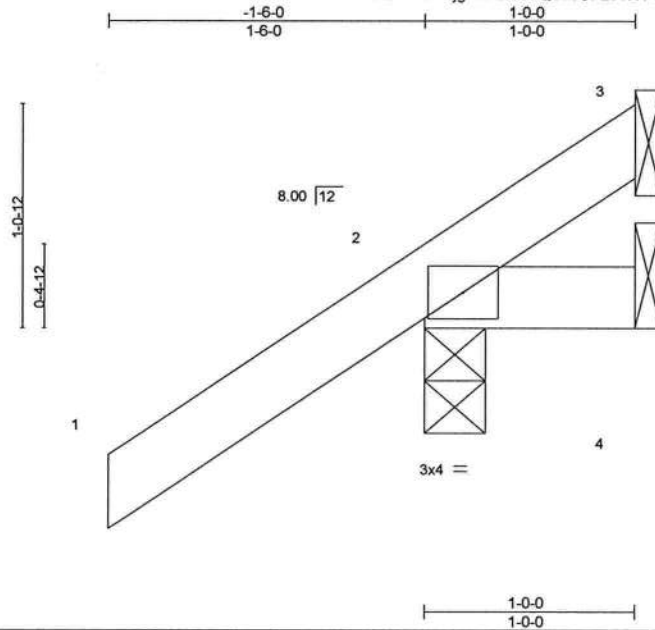
Julius Lee PE No. 34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23, 2020

Job 2228807	Truss CJ01	Truss Type Jack-Open	Qty 4	Ply 1	D and G Properties - Spec Hse T21387777
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:33 2020 Page 1
ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-leO7q5ZxOb2kuZN_IOW02TRgcE5NV4eNBvoLyaJBy



Scale = 1:10.5

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 0.19	Vert(LL)	-0.00	7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2017/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=75(LC 12)
Max Uplift 3=-5(LC 1), 2=-112(LC 12), 4=-26(LC 19)
Max Grav 3=10(LC 16), 2=179(LC 1), 4=31(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=112.



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Date:

September 23,2020

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 **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

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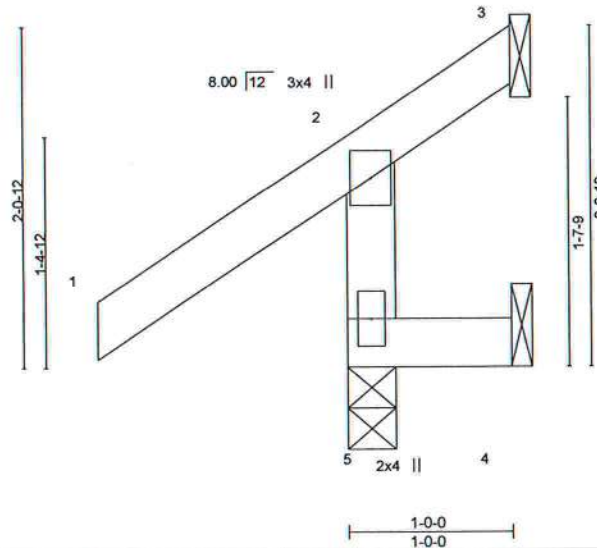
Job 2228807	Truss CJ01A	Truss Type Jack-Open	Qty 2	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387778
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8,240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:33 2020 Page 1
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Scale = 1:13.4



LOADING (psf)
TCLL 20.0
TCDL 7.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.25
Lumber DOL 1.25
Rep Stress Incr YES
Code FBC2017/TPI2014

CSI.
TC 0.28
BC 0.09
WB 0.00
Matrix-MR

DEFL. in (loc) l/defl L/d
Vert(LL) -0.00 5 >999 240
Vert(CT) -0.00 5 >999 180
Horz(CT) -0.00 3 n/a n/a

PLATES GRIP
MT20 244/190

Weight: 8 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=70(LC 9)
Max Uplift 5=-57(LC 12), 3=-48(LC 1), 4=-33(LC 9)
Max Grav 5=207(LC 1), 3=17(LC 8), 4=33(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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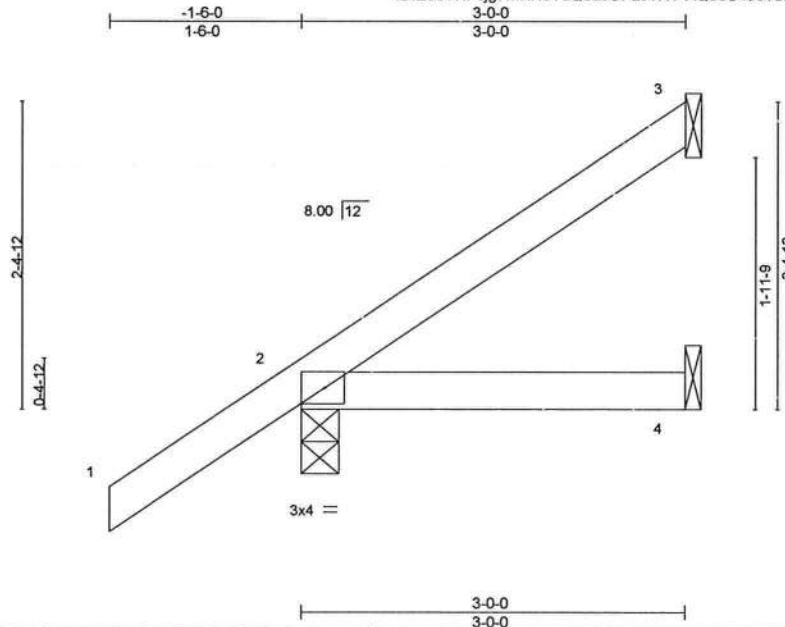
6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss CJ03	Truss Type Jack-Open	Qty 4	Ply 1	D and G Properties - Spec Hse T21387779
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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:37 2020 Page 1

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Scale = 1:17.3

Plate Offsets (X,Y) - [2:Edge,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	0.01 4-7	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	-0.01 4-7	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 3	n/a	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP				
						Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=140(LC 12)
Max Uplift 3=68(LC 12), 2=87(LC 12), 4=27(LC 9)
Max Grav 3=68(LC 19), 2=210(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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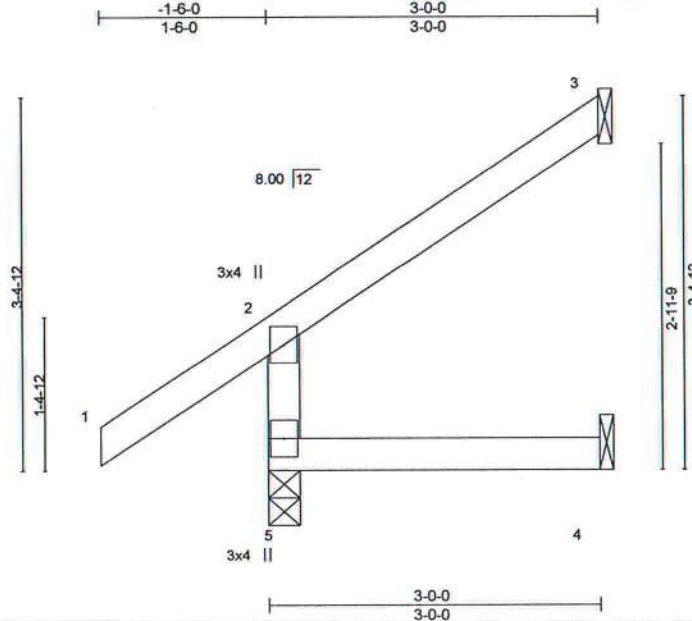
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Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse
2228807	CJ03A	Jack-Open	2	1	T21387780

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:39 2020 Page 1
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Scale = 1:20.1

LOADING (psf)
TCLL 20.0
TCDL 7.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.25
Lumber DOL 1.25
Rep Stress Incr YES
Code FBC2017/TPI2014

CSI.
TC 0.36
BC 0.20
WB 0.00
Matrix-MR

DEFL. in (loc) l/defl L/d
Vert(LL) 0.01 4-5 >999 240
Vert(CT) -0.01 4-5 >999 180
Horz(CT) -0.02 3 n/a n/a

PLATES GRIP
MT20 244/190

Weight: 14 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=119(LC 12)
Max Uplift 5=46(LC 12), 3=89(LC 12), 4=19(LC 12)
Max Grav 5=218(LC 1), 3=74(LC 19), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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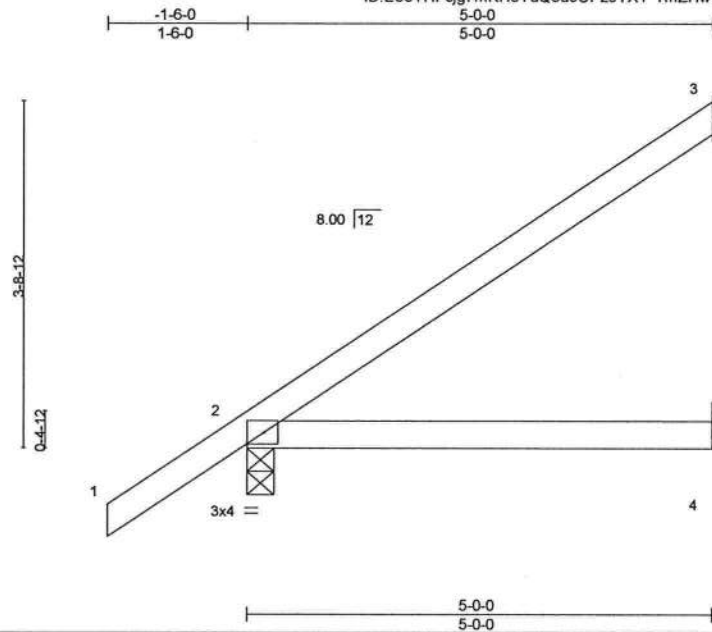
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Tampa, FL 33610

Job 2228807	Truss CJ05	Truss Type Jack-Open	Qty 4	Ply 1	D and G Properties - Spec Hse T21387781
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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:44 2020 Page 1
ID: E53YHFcg7mKH6YuQ8uoUPzsYXY-TmZHwUESLn_UYbuU7Z45yNRG76HkAMDhAaM_hDyajBn



Scale: 1/2"=1'

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

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 0.37	Vert(LL)	0.09	4-7	>678	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	0.08	4-7	>778	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP							

Weight: 19 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=206(LC 12)
Max Uplift 3=125(LC 12), 2=93(LC 12), 4=49(LC 9)
Max Grav 3=126(LC 19), 2=276(LC 1), 4=89(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=125.



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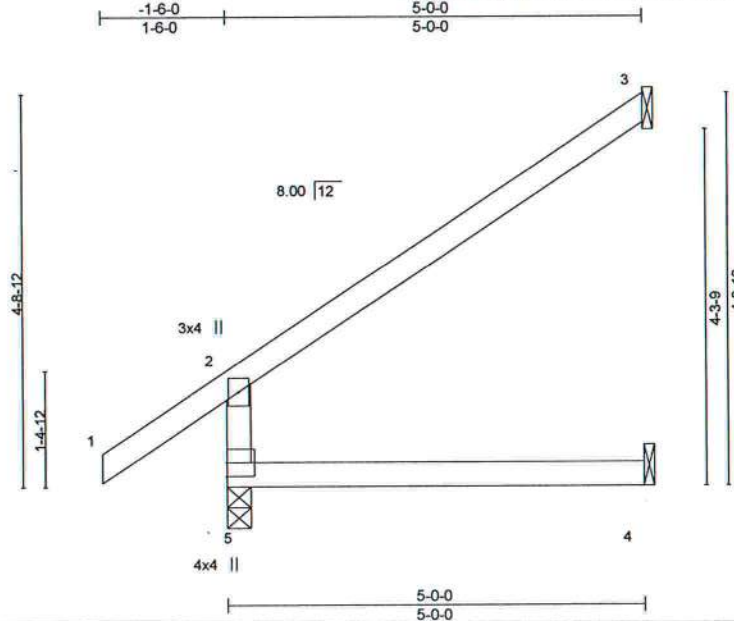


6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss CJ05A	Truss Type Jack-Open	Qty 2	Ply 1	D and G Properties - Spec Hse T21387782
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:46 2020 Page 1
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Scale = 1:26.6

LOADING (psf)
TCLL 20.0
TCDL 7.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.25
Lumber DOL 1.25
Rep Stress Incr YES
Code FBC2017/TPI2014

CSI.
TC 0.60
BC 0.42
WB 0.00
Matrix-MR

DEFL. in (loc) l/defl L/d
Vert(LL) 0.06 4-5 >990 240
Vert(CT) -0.07 4-5 >840 180
Horz(CT) -0.09 3 n/a n/a

PLATES GRIP
MT20 244/190

Weight: 21 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=185(LC 12)
Max Uplift 5=-55(LC 12), 3=-149(LC 12), 4=-22(LC 12)
Max Grav 5=281(LC 1), 3=139(LC 19), 4=90(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 3=149.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23, 2020

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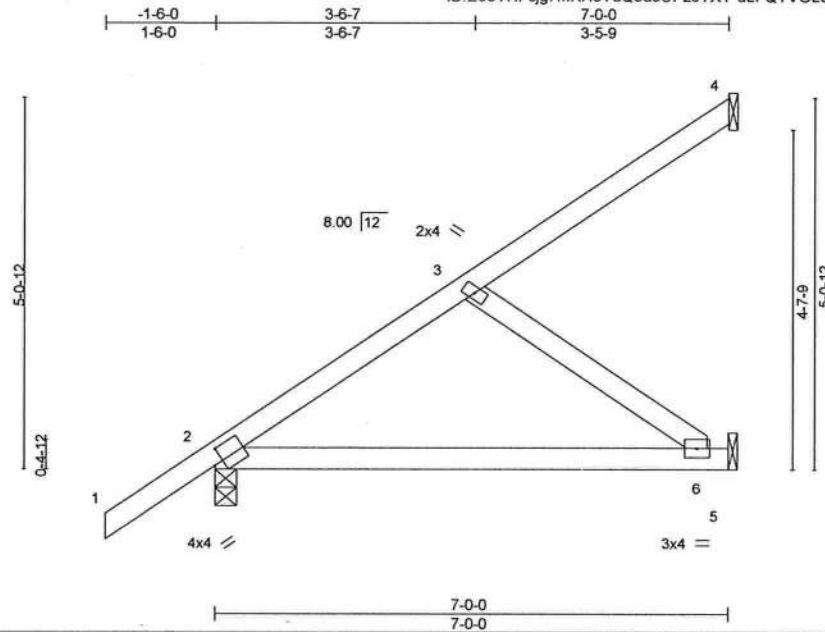
MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss EJ01	Truss Type Jack-Partial	Qty 12	Ply 1	D and G Properties - Spec Hse T21387783
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:47 2020 Page 1
ID: E53YHFcg7mKH6YuQ8uoUPzsYXY-uLFQYVGLeiM3P2d3pheoa73nJIMNiG7sYaelXyajBk



Scale = 1:30.2

Plate Offsets (X,Y) - [2:0-1-9,0-2-5]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.08	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.16	6-9	>529	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
									Weight: 32 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=273(LC 12)
Max Uplift 4=91(LC 12), 2=103(LC 12), 5=103(LC 12)
Max Grav 4=85(LC 19), 2=346(LC 1), 5=196(LC 19)

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

BOT CHORD 2-6=-189/265
WEBS 3-6=-326/232

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=103, 5=103.



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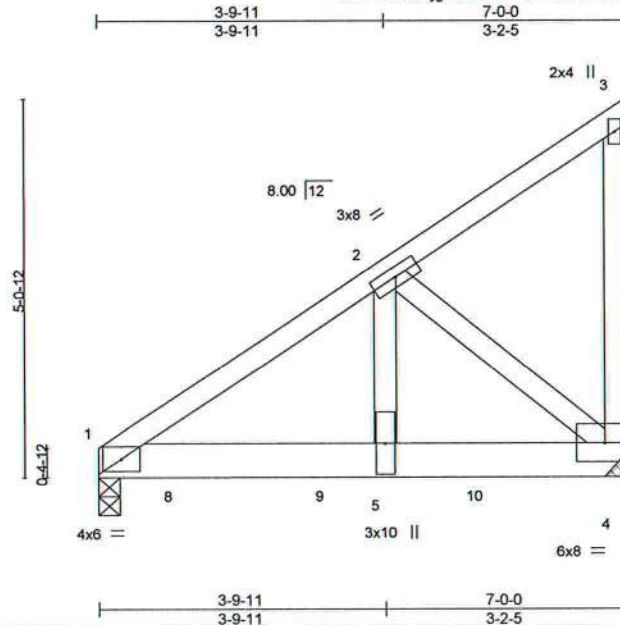


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Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse
2228807	EJ01A	MONO TRUSS	1	1	T21387784

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8,240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:48 2020 Page 1
ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-MXoomrHzP?Uw1CCFMO917Dbzjay63PH5CKCq_yajBj



Scale = 1:29.5

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 0.27	Vert(LL)	-0.03 5-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.05 5-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.50	Horz(CT)	0.01 4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.

REACTIONS.

(size) 1=0-3-8, 4=Mechanical
Max Horz 1=227(LC 8)
Max Uplift 1=-444(LC 8), 4=-519(LC 8)
Max Grav 1=1264(LC 1), 4=1070(LC 1)

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

TOP CHORD 1-2=-1262/397
BOT CHORD 1-5=-491/1040, 4-5=-491/1040
WEBS 2-5=-483/1311, 2-4=-1344/632

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=444, 4=519.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 609 lb down and 254 lb up at 1-0-12, and 609 lb down and 254 lb up at 3-0-12, and 609 lb down and 254 lb up at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 1-3=-54
Concentrated Loads (lb)
Vert: 8=-609(B) 9=-609(B) 10=-609(B)



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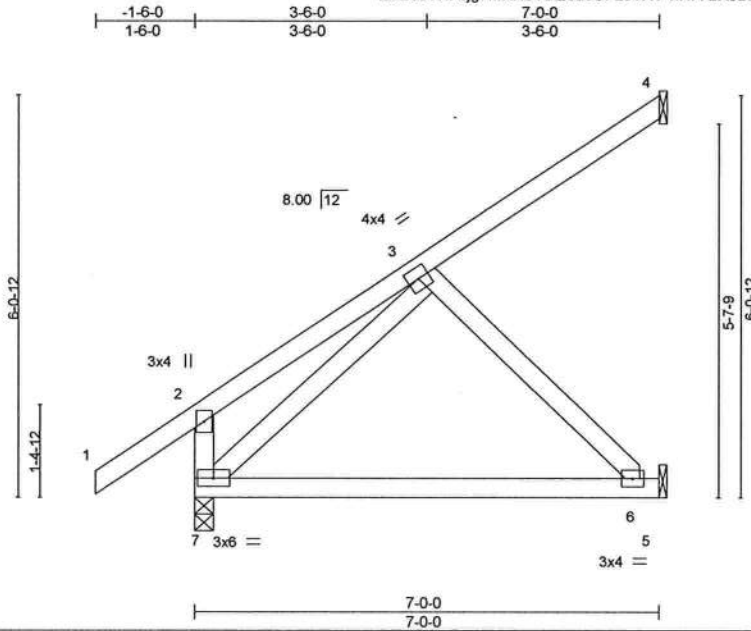
6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss EJ02	Truss Type Jack-Partial	Qty 3	Ply 1	D and G Properties - Spec Hse T21387785
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:50 2020 Page 1
ID: E53YHFcg7mKH6YuQ8uoUPzsYXY-lwwYBXJDxdkeGWMMeUpBVCEgleXIKa2qaZWpJusyajBh



Scale = 1:33.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	-0.09	6-7	>878	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.19	6-7	>432	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 40 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8
Max Horz 7=252(LC 12)
Max Uplift 4=91(LC 12), 5=139(LC 12), 7=67(LC 12)
Max Grav 4=94(LC 19), 5=193(LC 19), 7=351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-263/225
WEBS 3-6=-275/259

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7 except (jt=lb) 5=139.



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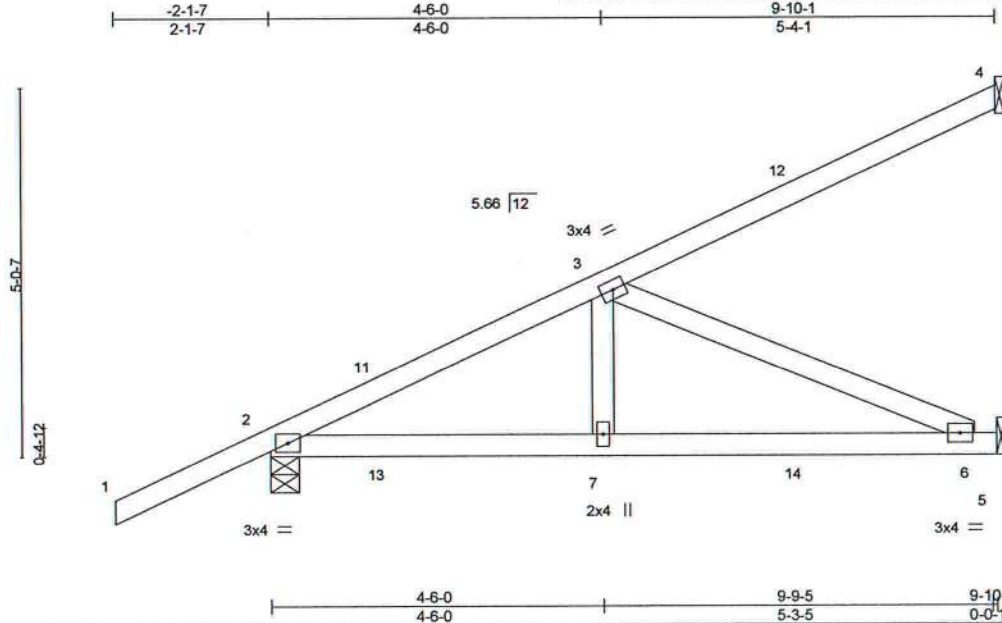
6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse
2228807	HJ10	Diagonal Hip Girder	2	1	T21387786

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8,240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:53 2020 Page 1

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Scale = 1:30.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	0.11	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.58	Vert(CT)	-0.11	6-7	>999	180		
BCLL 0.0	Rep Stress Incr NO	WB 0.37	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						Weight: 45 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=272(LC 8)
Max Uplift 4=-167(LC 8), 2=-375(LC 8), 5=-301(LC 5)
Max Grav 4=148(LC 1), 2=526(LC 1), 5=300(LC 1)

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

TOP CHORD 2-3=-703/512
BOT CHORD 2-7=-602/553, 6-7=-602/553
WEBS 3-7=-151/285, 3-6=-604/657

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=167, 2=375, 5=301.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 76 lb up at 1-6-1, 86 lb down and 76 lb up at 1-6-1, 107 lb down and 67 lb up at 4-4-0, 107 lb down and 67 lb up at 4-4-0, and 140 lb down and 133 lb up at 7-1-15, and 140 lb down and 133 lb up at 7-1-15 on top chord, and 64 lb down and 53 lb up at 1-6-1, 64 lb down and 53 lb up at 1-6-1, 20 lb down and 35 lb up at 4-4-0, 20 lb down and 35 lb up at 4-4-0, and 42 lb down and 64 lb up at 7-1-15, and 42 lb down and 64 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-4(F=-2, B=-2) 12=-73(F=-36, B=-36) 14=-59(F=-29, B=-29)



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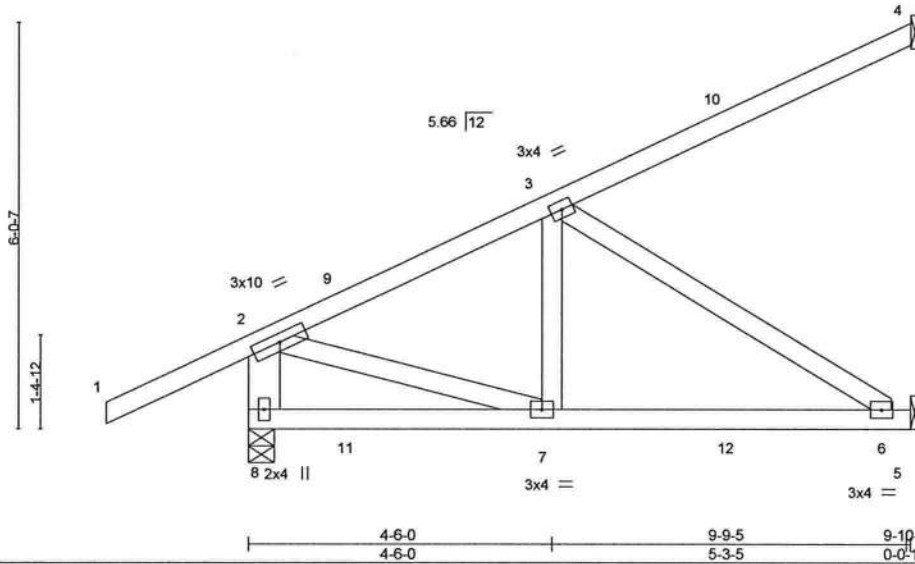
Job 2228807	Truss HJ10A	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	D and G Properties - Spec Hse T21387787
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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:56 2020 Page 1
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Scale = 1:32.9



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 0.71	Vert(LL)	0.07	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.10	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.36	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 56 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 8=0-4-9, 4=Mechanical, 5=Mechanical
Max Horz 8=251(LC 26)
Max Uplift 8=-416(LC 8), 4=-182(LC 8), 5=-300(LC 8)
Max Grav 8=540(LC 32), 4=146(LC 1), 5=332(LC 32)

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

TOP CHORD 2-8=-497/377, 2-3=-602/366
BOT CHORD 6-7=-483/436
WEBS 2-7=-373/540, 3-6=-517/572

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 8=416, 4=182, 5=300.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 125 lb up at 1-6-1, 93 lb down and 125 lb up at 1-6-0, 120 lb down and 87 lb up at 4-4-0, 120 lb down and 87 lb up at 4-3-15, and 156 lb down and 156 lb up at 7-1-15, and 156 lb down and 156 lb up at 7-1-14 on top chord, and 29 lb down and 60 lb up at 1-6-1, 29 lb down and 60 lb up at 1-6-0, 32 lb down and 27 lb up at 4-4-0, 32 lb down and 27 lb up at 4-3-15, and 54 lb down and 36 lb up at 7-1-15, and 54 lb down and 36 lb up at 7-1-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=3(F=1, B=1) 9=64(F=32, B=32) 10=-70(F=-35, B=-35) 12=-45(F=-22, B=-22)



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September 23,2020

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Job 2228807	Truss PB01	Truss Type Piggyback	Qty 6	Ply 1	D and G Properties - Spec Hse T21387788
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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:57 2020 Page 1

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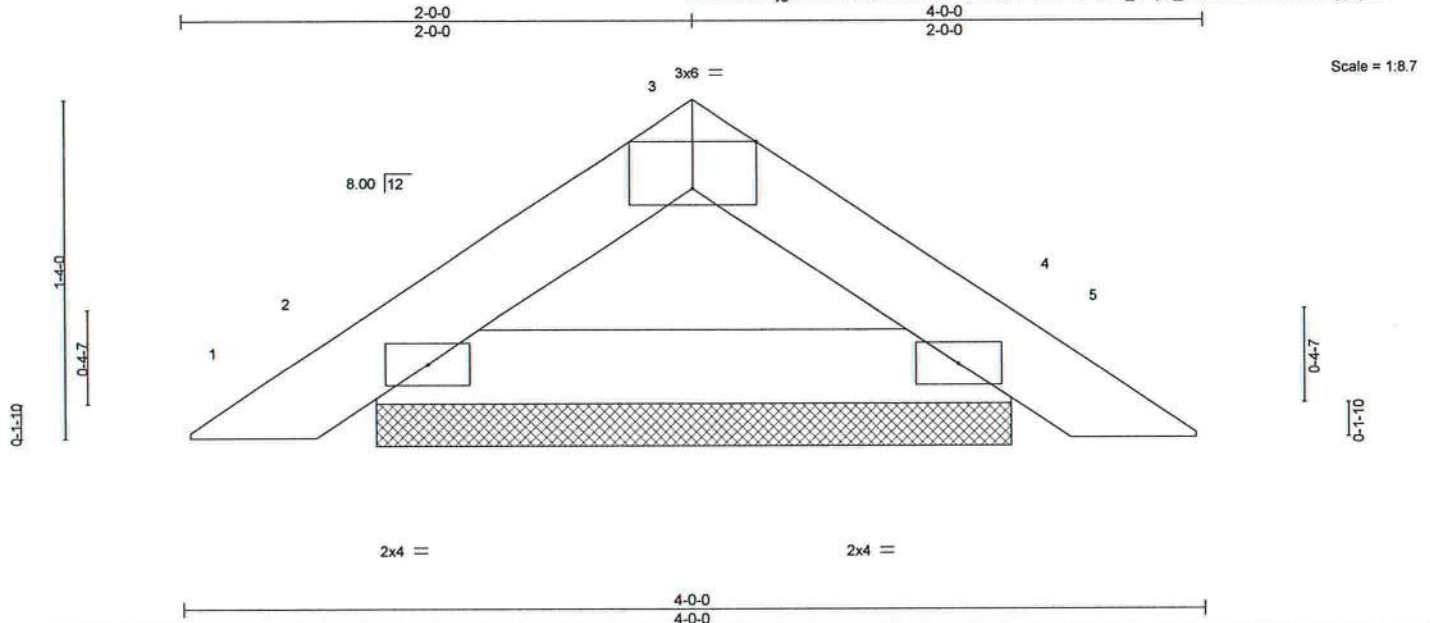


Plate Offsets (X,Y)--		[3:0-3:0,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0		Plate Grip DOL	1.25	TC 0.03		Vert(LL)	0.00 4	n/r	120	MT20	244/190		
TCDL 7.0		Lumber DOL	1.25	BC 0.07		Vert(CT)	0.00 4	n/r	120				
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 4	n/a	n/a				
BCDL 10.0		Code FBC2017/TPI2014		Matrix-P									
										Weight: 11 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 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=2-5-12, 4=2-5-12
Max Horz 2=37(LC 10)
Max Uplift 2=52(LC 12), 4=52(LC 13)
Max Grav 2=118(LC 1), 4=118(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

September 23, 2020

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6904 Parke East Blvd.
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Job 2228807	Truss PB01G	Truss Type PIGGYBACK	Qty 1	Ply 1	D and G Properties - Spec Hse T21387789
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:01 2020 Page 1

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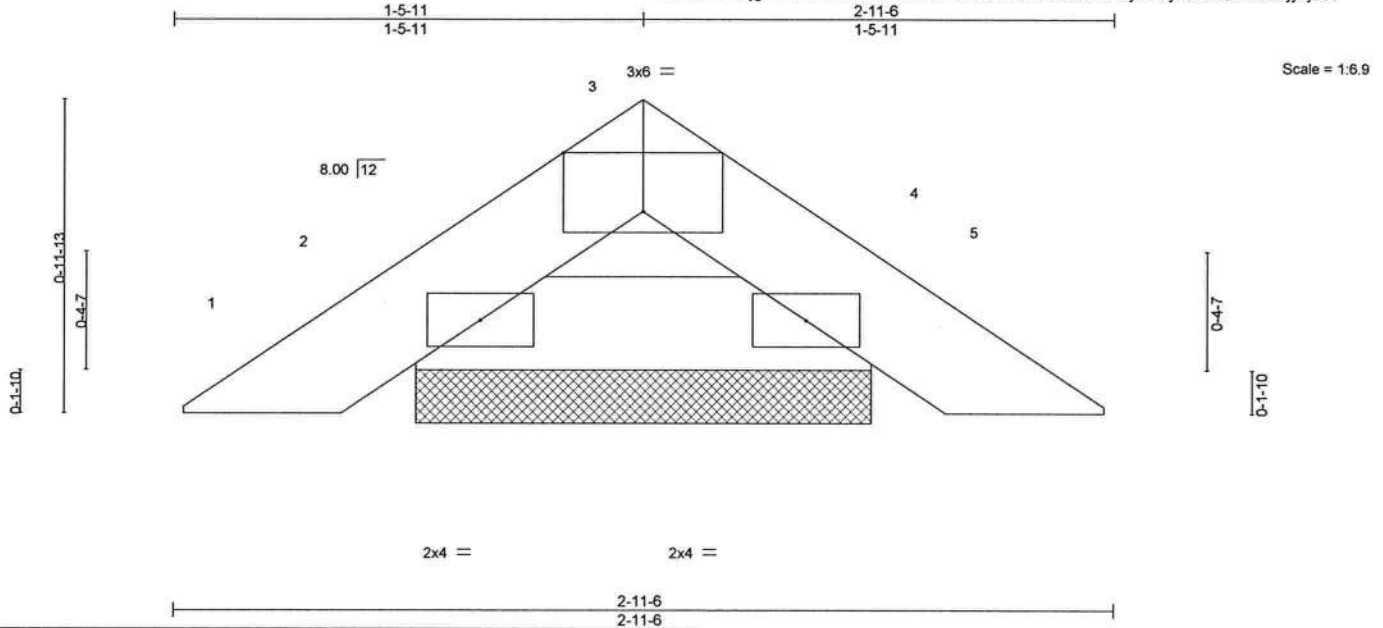


Plate Offsets (X,Y)--		[3:0-3-0,Edge]								PLATES	GRIP
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	MT20	244/190
TCLL 20.0		Plate Grip DOL	1.25	TC 0.02		Vert(LL)	-0.00 4	n/r	120		
TCDL 7.0		Lumber DOL	1.25	BC 0.02		Vert(CT)	-0.00 4	n/r	120		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0		Code FBC2017/TPI2014		Matrix-P						Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=1-5-2, 4=1-5-2
Max Horz 2=-25(LC 10)
Max Uplift 2=-38(LC 12), 4=-38(LC 13)
Max Grav 2=79(LC 1), 4=79(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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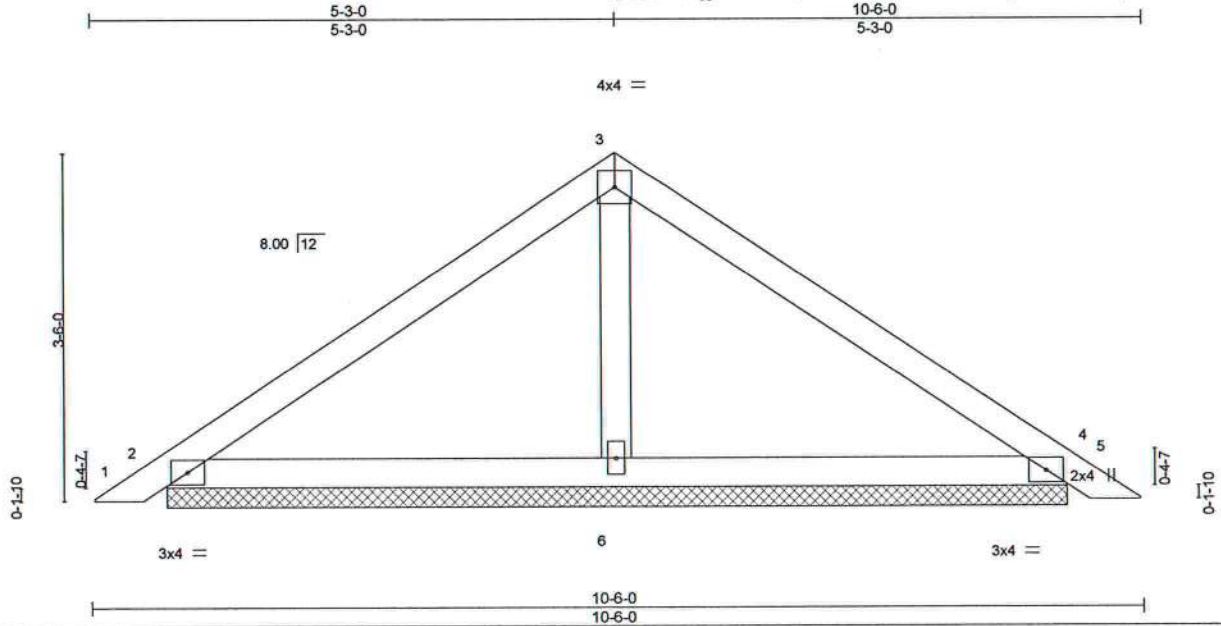
6904 Parke East Blvd.
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Job 2228807	Truss PB02	Truss Type Piggyback	Qty 15	Ply 1	D and G Properties - Spec Hse T21387790
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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:04 2020 Page 1

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Scale = 1:22.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.22	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.19	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S						Weight: 36 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=8-11-12, 4=8-11-12, 6=8-11-12
Max Horz 2=-106(LC 10)
Max Uplift 2=-93(LC 12), 4=-107(LC 13), 6=-96(LC 12)
Max Grav 2=190(LC 1), 4=191(LC 20), 6=337(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpj=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 4=107.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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September 23, 2020



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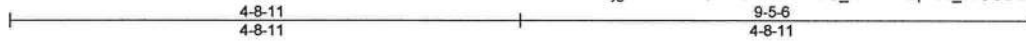
6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss PB02G	Truss Type GABLE	Qty 2	Ply 1	D and G Properties - Spec Hse T21387791
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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:07 2020 Page 1

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Scale = 1:20.6

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 0.05	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 7-11-2.

(lb) - Max Horz 2=94(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=134(LC 12), 8=133(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=134, 8=133.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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September 23,2020

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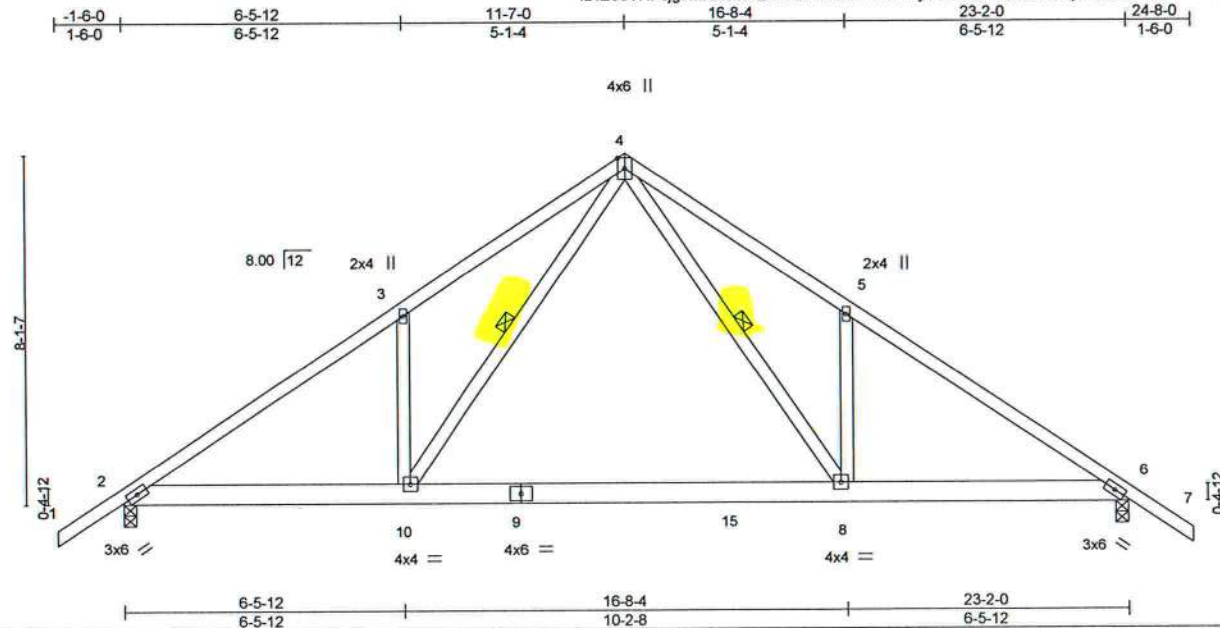
6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss T01	Truss Type Common	Qty 7	Ply 1	D and G Properties - Spec Hse T21387792
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:08 2020 Page 1

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LOADING (psf)
TCLL 20.0
TCDL 7.0
BCLL 0.0 *
BCDL 10.0

SPACING-	2-0-0
Plate Grip DOL	1.25
Lumber DOL	1.25
Rep Stress Incr	NO
Code	FBC2017/TP12014

CSI.
TC 0.47
BC 0.96
WB 0.41
Matrix-MS

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.23	8-10	>999	240
Vert(CT)	-0.44	8-10	>634	180
Horz(CT)	0.03	6	n/a	n/a

PLATES
MT20

GRIP
244/190

Weight: 140 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-13 oc bracing.
WEBS 1 Row at midpt 4-8, 4-10

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-278(LC 10)
Max Uplift 2=-519(LC 12), 6=-519(LC 13)
Max Grav 2=1270(LC 19), 6=1270(LC 20)

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

TOP CHORD 2-3=-1984/819, 3-4=-2056/1035, 4-5=-2056/1035, 5-6=-1984/819
BOT CHORD 2-10=-629/1757, 8-10=-278/1054, 6-8=-521/1600
WEBS 4-8=-635/1273, 5-8=-406/376, 4-10=-636/1274, 3-10=-406/376

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=519, 6=519.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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, 2-10=-20, 8-10=-80(F=60), 6-8=-20



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Tampa, FL 33610

Job 2228807	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	D and G Properties - Spec Hse T21387793
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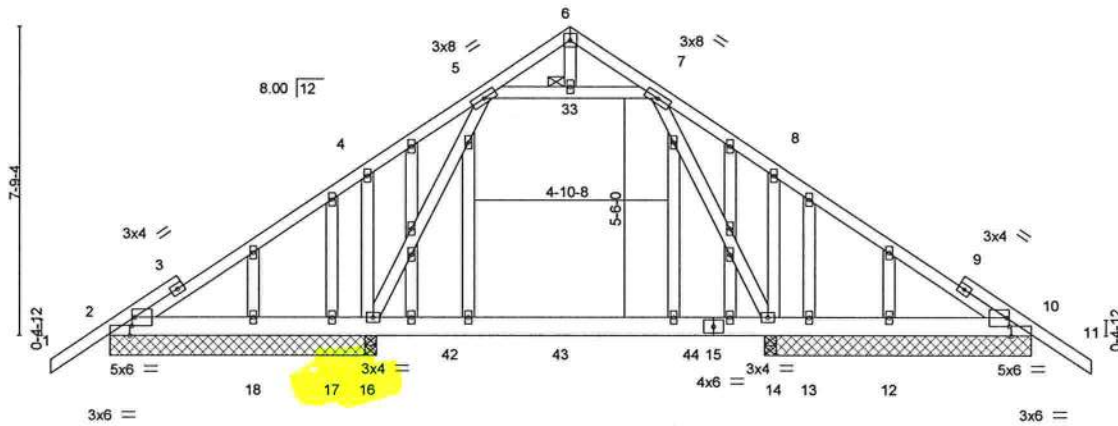
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:14 2020 Page 1
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1-6-0 6-5-12 11-7-0 16-8-4 23-2-0 24-8-0
1-6-0 6-5-12 5-1-4 5-1-4 6-5-12 1-6-0

4x4 =

Scale = 1:55.7



										6-5-12		6-8-8		16-5-8		16-8-4		23-2-0			
										6-5-12		0-2-12		9-9-0		0-2-12		6-5-12			
Plate Offsets (X,Y)--										[2:0-0-12,0-2-9], [2:0-1-6,Edge], [10:0-0-12,0-2-9], [10:0-1-6,Edge]											
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 0.33		Vert(LL)		-0.08 14-16		>999		240		MT20		244/190			
TCDL	7.0	Lumber DOL		1.25		BC 0.62		Vert(CT)		-0.14 14-16		>867		180							
BCLL	0.0 *	Rep Stress Incr		NO		WB 0.39		Horz(CT)		0.01 10		n/a		n/a							
BCDL	10.0	Code FBC2017/TPI2014				Matrix-MS										Weight: 184 lb		FT = 20%			

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 33

REACTIONS. All bearings 6-8-8.
(lb) - Max Horz 2=-267(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 14=-485(LC 13), 16=-680(LC 12), 17=-1060(LC 19), 18=-236(LC 12), 13=-775(LC 20), 12=-127(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 10, 17, 13, 10 except 14=1620(LC 20), 14=1225(LC 1), 16=2112(LC 19), 16=1733(LC 1), 18=588(LC 19), 12=261(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-332/518, 4-5=-154/483, 7-8=-133/436, 8-10=-319/529
BOT CHORD 2-18=-400/404, 17-18=-400/404, 16-17=-400/404, 14-16=-243/301, 13-14=-431/391, 12-13=-431/391, 10-12=-431/391
WEBS 7-14=-433/206, 8-14=-315/279, 5-16=-487/236, 4-16=-318/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - N/A
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 10 except (jt=lb) 14=485, 16=680, 17=1060, 18=236, 13=775, 12=127.
 - This truss has large uplift reaction(s) from gravity load case(s) at 17 and 13. Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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Continued on page 2

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse	T21387793
2228807	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:14 2020 Page 2
ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-bXNdKbHH?mE9CBFusd7AigPGCSuBqU64FdalTyajBJ

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-54, 6-11=-54, 34-37=-20, 34-43=-80(F=-60), 41-43=-20

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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6904 Parke East Blvd.
Tampa, FL 36610

Job 2228807	Truss T02	Truss Type Common	Qty 3	Ply 1	D and G Properties - Spec Hse T21387794
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:16 2020 Page 1
ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-XwVNeQdXpdyOVLd?HfbF7IIQ?36fkfPXZ6hpMyajBH



4x6 ||

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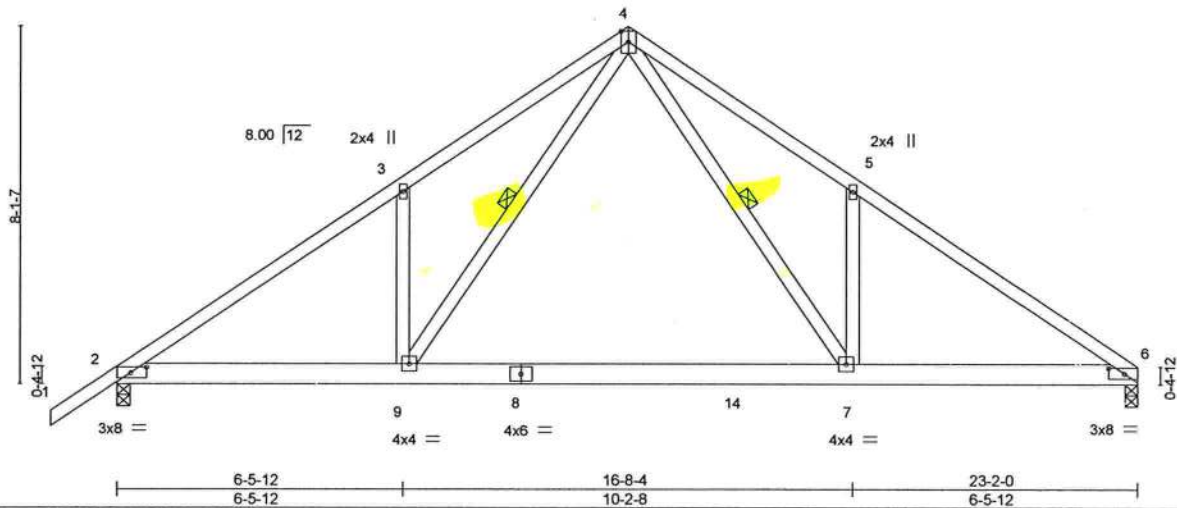


Plate Offsets (X,Y)-- [2:0-4-5,0-1-8], [6:0-4-5,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL) -0.22	7-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.96	Vert(CT) -0.44	7-9	>637	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.42	Horz(CT) 0.03	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 137 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-1 oc bracing.
WEBS 1 Row at midpt 4-7, 4-9

REACTIONS.

(size) 6=0-3-8, 2=0-3-8
Max Horz 2=267(LC 11)
Max Uplift 6=465(LC 13), 2=520(LC 12)
Max Grav 6=1189(LC 20), 2=1271(LC 19)

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

TOP CHORD 2-3=-1985/826, 3-4=-2060/1042, 4-5=-2056/1053, 5-6=-1998/835
BOT CHORD 2-9=-651/1742, 7-9=-301/1040, 6-7=-575/1589
WEBS 4-7=-651/1290, 5-7=-405/379, 4-9=-635/1273, 3-9=-407/376

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=465, 2=520.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-9=-20, 7-9=-80(F=60), 6-7=-20



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23,2020

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Tampa, FL 33610

Job 2228807	Truss T03	Truss Type Piggyback Base	Qty 2	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387795
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8,240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:22 2020 Page 1

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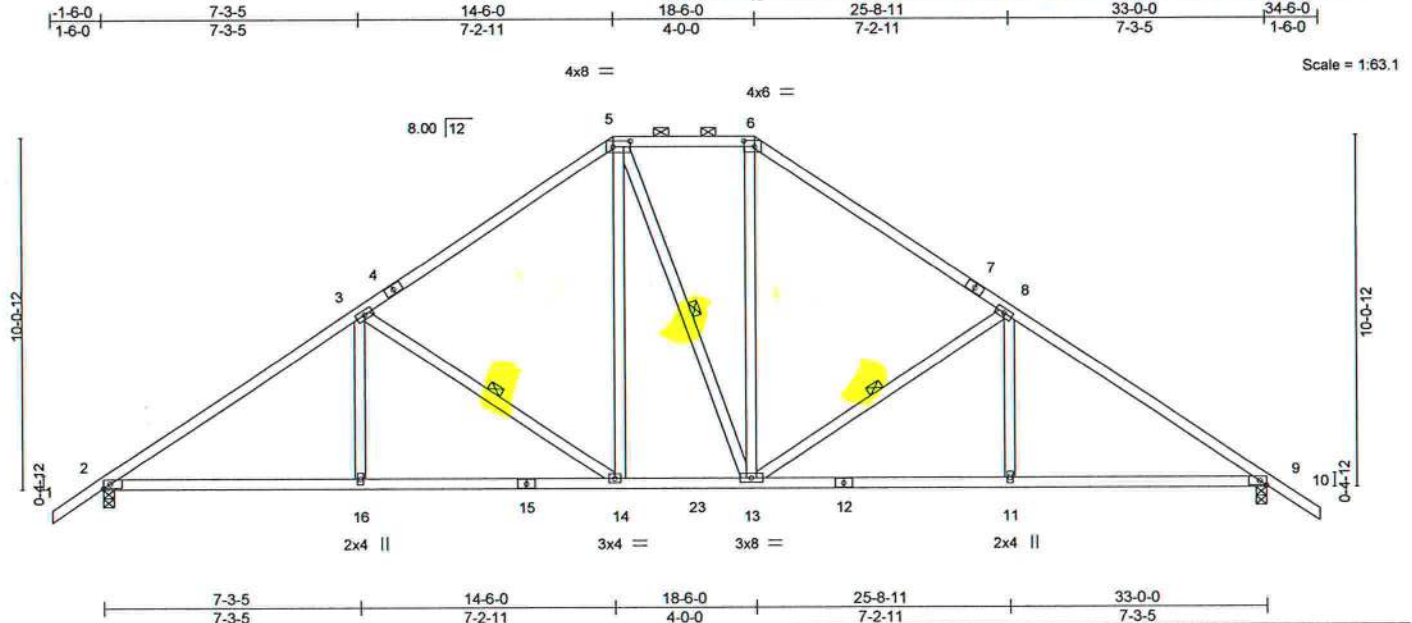


Plate Offsets (X,Y)-- [5:0-5-12,0-2-0], [6:0-3-12,0-2-0], [9:0-2-3,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.61	Vert(LL) 0.11	16-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.63	Vert(CT) -0.21	14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.07	9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 195 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins, except 2-0-0 oc purlins (5-4-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 7-5-2 oc bracing.
WEBS 1 Row at midpt 3-14, 5-13, 8-13

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-341(LC 10)
Max Uplift 2=-493(LC 12), 9=-493(LC 13)
Max Grav 2=1302(LC 1), 9=1302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1858/826, 3-5=-1349/721, 5-6=-1137/688, 6-8=-1350/722, 8-9=-1858/826
BOT CHORD 2-16=-586/1535, 14-16=-586/1535, 13-14=-225/1025, 11-13=-526/1471, 9-11=-526/1471
WEBS 3-16=0/319, 3-14=-698/439, 5-14=-205/491, 6-13=-190/484, 8-13=-696/439, 8-11=0/317

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=493, 9=493.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23, 2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss T03G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	D and G Properties - Spec Hse T21387796
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:28 2020 Page 1

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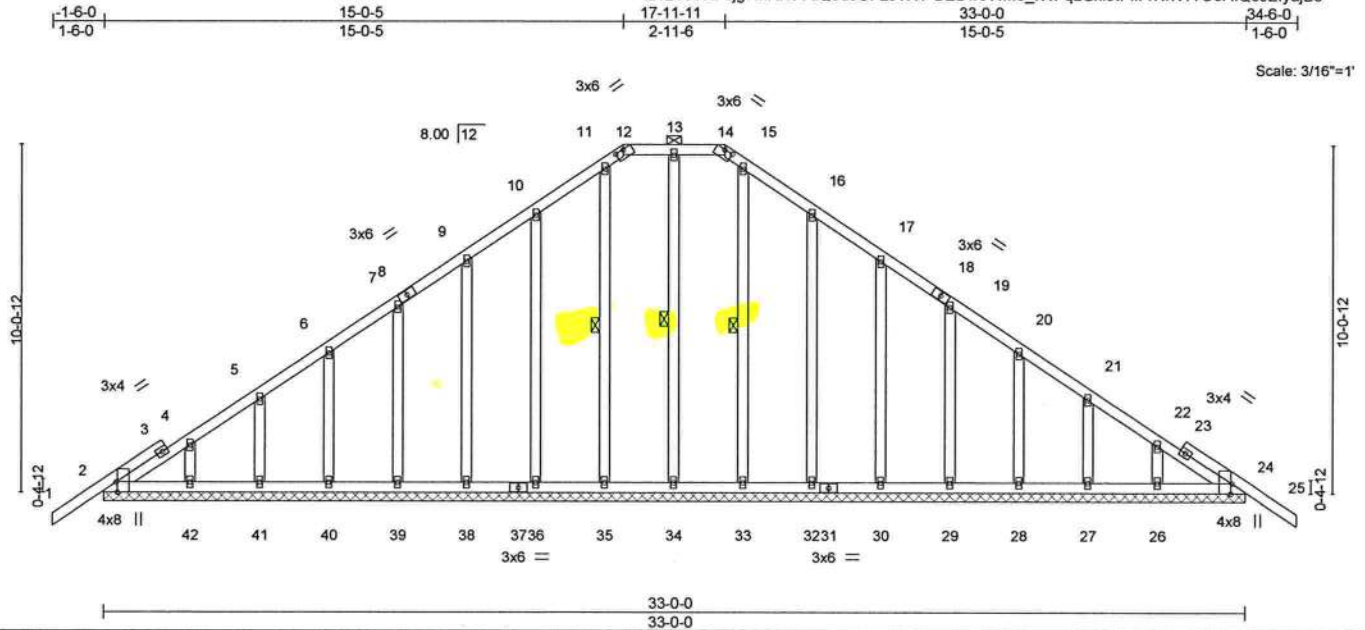


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [12:0-3-0,0-0-2], [14:0-3-0,0-0-2], [24:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	-0.01	25	n/r	120	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.01	25	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	24	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S						

Weight: 239 lb FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 12-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 13-34, 11-35, 15-33

REACTIONS. All bearings 33-0-0.
(lb) - Max Horz 2=341(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 42, 26, 24 except 36=132(LC 12), 38=113(LC 12), 39=116(LC 12), 40=113(LC 12), 41=122(LC 12), 32=137(LC 13), 30=112(LC 13), 29=116(LC 13), 28=113(LC 13), 27=121(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 34, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-297/251, 10-11=-246/303, 11-12=-229/283, 12-13=-231/290, 13-14=-231/290, 14-15=-229/283, 15-16=-246/303
BOT CHORD 2-42=-179/260, 41-42=-179/260, 40-41=-179/260, 39-40=-179/260, 38-39=-179/260, 36-38=-179/260, 35-36=-179/260, 34-35=-179/260, 33-34=-179/260, 32-33=-179/260, 30-32=-179/260, 29-30=-179/260, 28-29=-179/260, 27-28=-179/260, 26-27=-179/260, 24-26=-179/260

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 35, 42, 26, 24 except (it=lb) 36=132, 38=113, 39=116, 40=113, 41=122, 32=137, 30=112, 29=116, 28=113, 27=121.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23,2020

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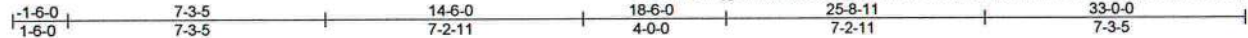
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse	T21387797
2228807	T04	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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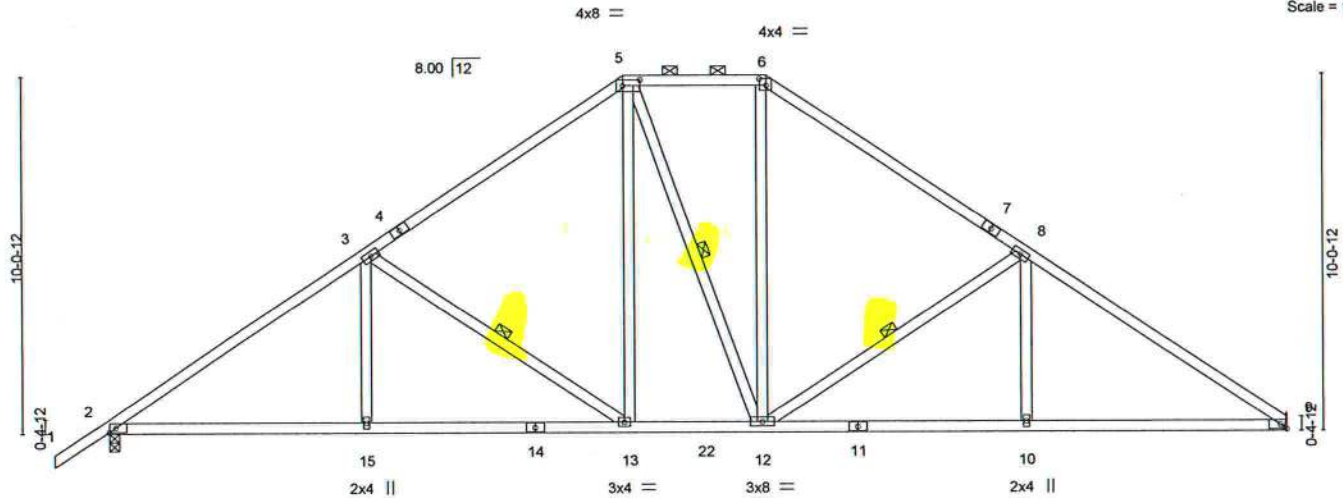


Plate Offsets (X,Y)-- [5:0-5-12,0-2-0], [6:0-2-4,0-2-4], [9:0-2-3,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	0.12 10-21	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.21 13-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.07 9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 193 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins, except 2-0-0 oc purlins (5-4-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 7-3-8 oc bracing.
WEBS 1 Row at midpt 3-13, 5-12, 8-12

REACTIONS.

(size) 2=0-3-8, 9=Mechanical
Max Horz 2=330(LC 11)
Max Uplift 2=494(LC 12), 9=440(LC 13)
Max Grav 2=1304(LC 1), 9=1219(LC 1)

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

TOP CHORD 2-3=-1862/832, 3-5=-1353/727, 5-6=-1140/693, 6-8=-1354/728, 8-9=-1871/840
BOT CHORD 2-15=-608/1520, 13-15=-608/1520, 12-13=-247/1028, 10-12=-579/1484, 9-10=-579/1484
WEBS 3-15=0/319, 3-13=-698/439, 5-13=-206/492, 6-12=-193/484, 8-12=-690/450, 8-10=0/319

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 2=494, 9=440.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

September 23, 2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss T05	Truss Type Half Hip Girder	Qty 1	Ply 1	D and G Properties - Spec Hse T21387798
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

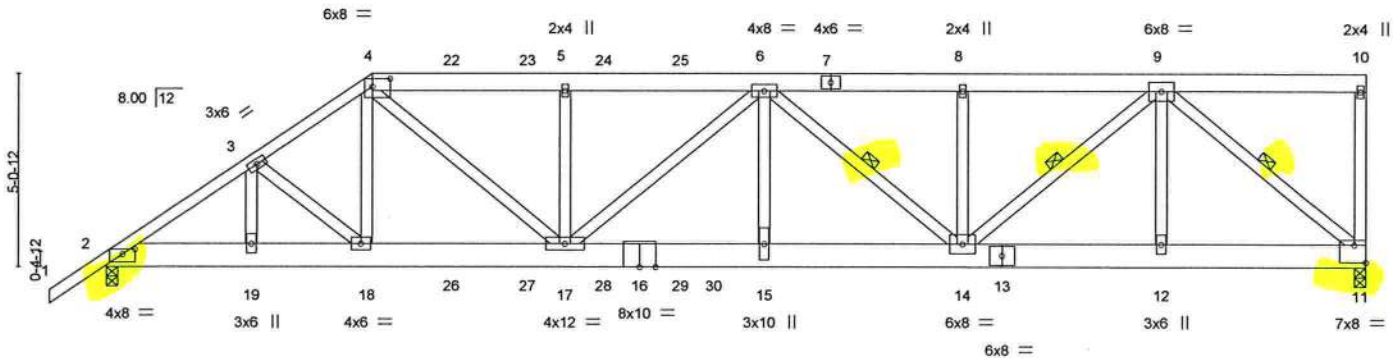
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:42 2020 Page 1

ID:E53YHFcg7mKH6YUQ8uoUPzsYXY-nw3C5JxrhbHGWWKdXk7hJbq8oU3CIWwEWcP3jryajAt

Job Reference (optional)

1-6-0	3-9-11	7-0-0	12-0-10	17-3-1	22-5-7	27-7-14	33-0-0
1-6-0	3-9-11	3-2-5	5-0-10	5-2-6	5-2-6	5-2-6	5-4-2

Scale = 1:58.1



3-9-11	7-0-0	12-0-10	17-3-1	22-5-7	27-7-14	33-0-0
3-9-11	3-2-5	5-0-10	5-2-6	5-2-6	5-2-6	5-4-2

Plate Offsets (X,Y)=[2:0-4-0,0-1-9], [4:0-5-8,0-2-8], [11:Edge,0-5-8]

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 0.55	Vert(LL)	0.29 15-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.37 15-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 1.00	Horz(CT)	0.07 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 269 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-3 oc bracing.
WEBS 1 Row at midpt 6-14, 9-14, 9-11

REACTIONS.

(size) 11=0-3-8, 2=0-3-8
Max Horz 2=273(LC 27)
Max Uplift 11=1160(LC 5), 2=1506(LC 5)
Max Grav 11=2072(LC 1), 2=2632(LC 1)

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

TOP CHORD 2-3=-4304/2601, 3-4=-4263/2696, 4-5=-5006/3102, 5-6=-5004/3099, 6-8=-3852/2224, 8-9=-3852/2224
BOT CHORD 2-19=-2243/3543, 18-19=-2243/3543, 17-18=-2254/3498, 15-17=-3095/5234, 14-15=-3095/5234, 12-14=-1242/2188, 11-12=-1242/2188
WEBS 3-18=-275/275, 4-18=-584/776, 4-17=-1191/2073, 5-17=-377/389, 6-17=-366/347, 6-15=-497/1100, 6-14=-1833/1155, 8-14=-264/216, 9-14=-1303/2208, 9-11=-2885/1637

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1160, 2=1506.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 91 lb up at 7-0-0, 92 lb down and 87 lb up at 9-0-12, 92 lb down and 87 lb up at 11-0-12, and 92 lb down and 87 lb up at 13-0-12, and 92 lb down and 87 lb up at 15-0-12 on top chord, and 427 lb down and 452 lb up at 7-0-0, 167 lb down and 123 lb up at 9-0-12, 167 lb down and 123 lb up at 11-0-12, 167 lb down and 123 lb up at 13-0-12, and 167 lb down and 123 lb up at 15-0-12, and 1050 lb down and 539 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert 1-4=-54, 4-10=-54, 2-11=-20



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23,2020

Continued on page 2

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 **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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse
2228807	T05	Half Hip Girder	1	1	T21387798
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:42 2020 Page 2
ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-nw3C5JxrhbHGWWKdXk7hJbq8oU3CIMwEWcP3jryajAt

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-18(B) 18=-427(B) 22=-18(B) 23=-18(B) 24=-18(B) 25=-18(B) 26=-156(B) 27=-156(B) 28=-156(B) 29=-156(B) 30=-1050(B)

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2228807	Truss T06	Truss Type Half Hip	Qty 1	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387799
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:51 2020 Page 1

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Scale = 1:58.1

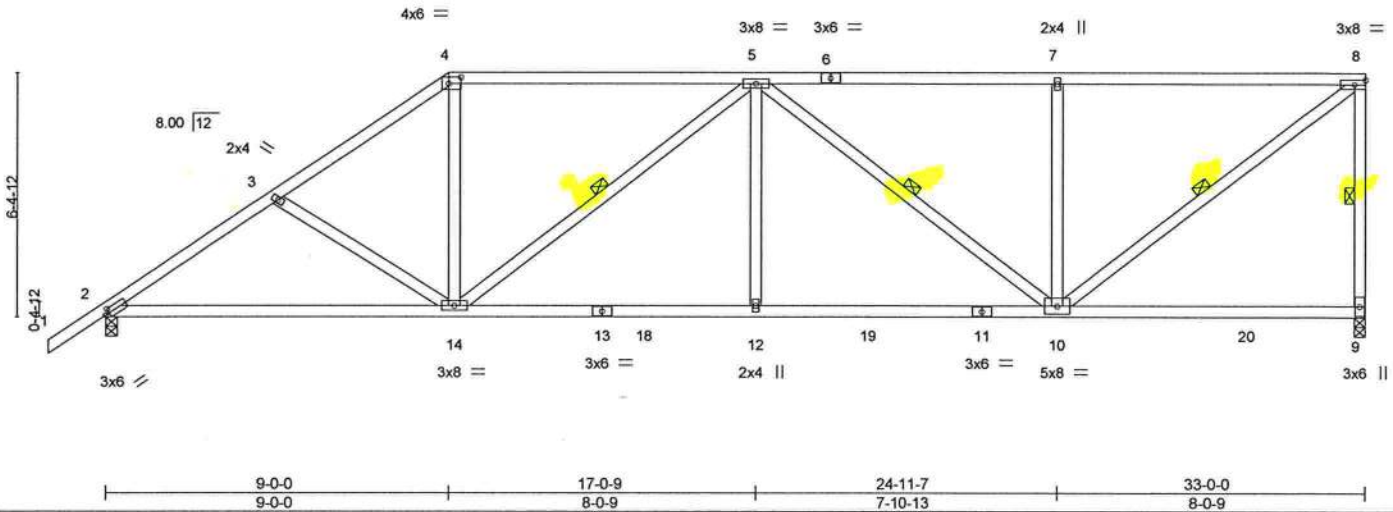


Plate Offsets (X,Y)-- [2:0-1-5,0-1-8], [4:0-3-12,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.14 14-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.30 14-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.07 9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 189 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-13 oc bracing.
WEBS 1 Row at midpt 8-9, 5-14, 5-10, 8-10

REACTIONS.

(size) 9=0-3-8, 2=0-3-8
Max Horz 2=343(LC 12)
Max Uplift 9=570(LC 9), 2=419(LC 12)
Max Grav 9=1225(LC 2), 2=1298(LC 1)

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

TOP CHORD 2-3=1866/871, 3-4=1666/799, 4-5=1342/733, 5-7=1262/650, 7-8=1262/650, 8-9=1143/638
BOT CHORD 2-14=924/1519, 12-14=894/1702, 10-12=894/1702
WEBS 3-14=345/266, 4-14=194/597, 5-14=573/348, 5-12=0/357, 5-10=594/309, 7-10=454/360, 8-10=807/1566

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=570, 2=419.



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Date:

September 23,2020

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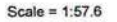
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:54 2020 Page 1
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LUMBER-

BRACING-

BOT CHORD

WEBS

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

Max Horz 2=409(LC 12)
Max Uplift 9=-564(LC 9), 2=-436(LC 12)
Max Grav 9=1254(LC 2), 2=1298(LC 1)

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

TOP CHORD 2-3=1903/817, 3-4=1546/740, 4-5=1381/736, 5-7=1381/736
BOT CHORD 2-15=935/1527, 14-15=935/1527, 12-14=690/1224, 10-12=509/1024, 9-10=509/1024
WEBS 3-14=512/325, 4-14=131/455, 4-12=260/319, 5-12=420/325, 7-12=326/568,
7-10=0391, 7-9=1449/720

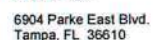
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=564, 2=436.

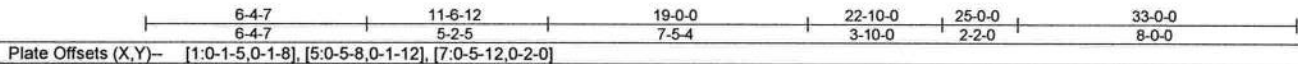


September 23, 2020

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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:56 2020 Page 1
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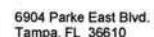
BRACING- TOP CHORD	Structural wood sheathing directly applied or 2-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-3 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 4-8-12 oc bracing.
WEBS	1 Row at midpt 5-13, 6-12, 7-11, 8-10

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpC=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=430, 10=360.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job 2228807	Truss T08G	Truss Type GABLE	Qty 1	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387802
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:58 2020 Page 1
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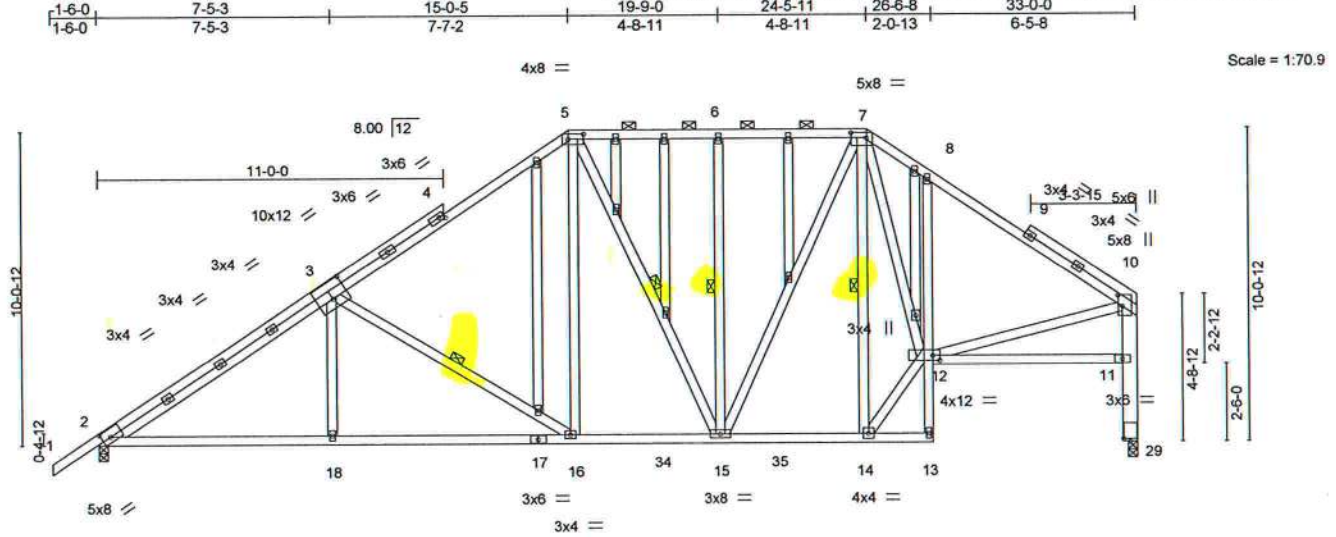


Plate Offsets (X,Y)~ [2-0-3-5,0-3-0], [3-0-6-0,0-6-8], [4-0-2-0,0-1-8], [5-0-5-12,0-2-0], [7-0-5-12,0-2-0], [10-0-4-4,0-1-8], [12-0-2-12,0-2-0], [29-0-1-0,0-2-8]

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 0.70	Vert(LL)	-0.10 16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.23 16-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.10 29	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 313 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-13: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
10-29: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-12 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-16, 5-15, 6-15, 7-14

REACTIONS. (size) 2=0-3-8, 29=0-3-8
Max Horz 2=372(LC 12)
Max Uplift 2=491(LC 12), 29=364(LC 13)
Max Grav 2=1298(LC 1), 29=1205(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1846/829, 3-5=-1332/703, 5-6=-975/657, 6-7=-975/657, 7-8=-1309/826,
8-10=-1358/663, 11-29=-1205/566, 10-11=-1134/582
BOT CHORD 2-18=-788/1516, 16-18=-788/1516, 15-16=-423/1016, 14-15=-299/774, 8-12=-362/324
WEBS 3-18=0/301, 3-16=-739/474, 5-16=-214/542, 5-15=-262/149, 6-15=-287/234,
7-15=-264/511, 7-14=-825/360, 12-14=-446/1206, 7-12=-525/1011, 10-12=-380/967

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=491, 29=364.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23,2020

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Tampa, FL 36610

Job 2228807	Truss T09	Truss Type Piggyback Base	Qty 6	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387803
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:53:59 2020 Page 1
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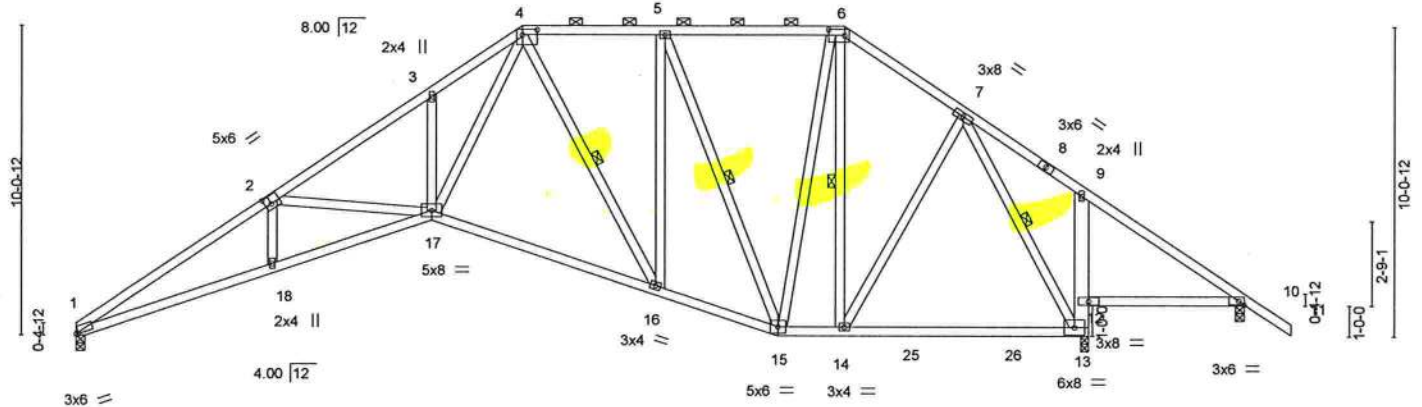
6-4-7	11-6-12	14-6-0	19-0-0	25-0-0	28-10-4	32-11-8	38-0-0	39-6-0
6-4-7	5-2-5	2-11-4	4-6-0	6-0-0	3-10-4	4-1-4	5-0-8	1-6-0

6x8 =

3x4 =

5x8 =

Scale = 1:72.1



6-4-7	11-6-12	19-0-0	22-10-0	25-0-0	32-11-8	38-0-0
6-4-7	5-2-5	7-5-4	3-10-0	2-2-0	7-11-8	5-0-8

Plate Offsets (X,Y) - [1:0-1-1,0-0-5], [2:0-2-8,0-3-0], [4:0-5-12,0-2-0], [6:0-6-4,0-2-4], [10:0-2-3,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	0.22 17-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.43 16-17	>913	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.28 13	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-13: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except
2-0-0 oc purlins (5-5-10 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 5-3-14 oc bracing.
WEBS 1 Row at midpt 4-16, 5-15, 6-14, 7-13

REACTIONS.

(size) 1=0-3-8, 10=0-3-8, 13=0-3-0
Max Horz 1=-316(LC 10)
Max Uplift 1=-414(LC 12), 10=-255(LC 23), 13=-529(LC 12)
Max Grav 1=1149(LC 1), 10=108(LC 9), 13=1844(LC 1)

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

TOP CHORD 1-2=-3201/1407, 2-3=-2607/1129, 3-4=-2590/1291, 4-5=-1028/688, 5-6=-765/571,
6-7=-785/565, 7-9=-200/529, 9-10=-243/686
BOT CHORD 1-18=-1202/2733, 17-18=-1198/2748, 16-17=-507/1353, 15-16=-386/1104,
14-15=-156/593, 13-14=-36/333, 12-13=-497/444, 9-12=-418/321, 10-12=-505/289
WEBS 2-17=-666/456, 3-17=-325/285, 4-17=-856/1909, 4-16=-616/261, 5-16=-147/598,
5-15=-919/413, 6-15=-270/515, 6-14=-349/269, 7-14=-260/599, 7-13=-1526/586

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=414, 10=255, 13=529.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

September 23,2020

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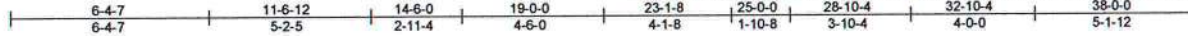


6904 Parke East Blvd.
Tampa, FL 36610

Job 2228807	Truss T10	Truss Type Piggyback Base	Qty 4	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387804
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:01 2020 Page 1
ID:E53YHFcjg7mKH6YuQ8uoUPzsYXY-jajO4pAmCRhZlQH8Ez9ac7PB8Spi?C113VzuFyajAa



Scale = 1:71.5

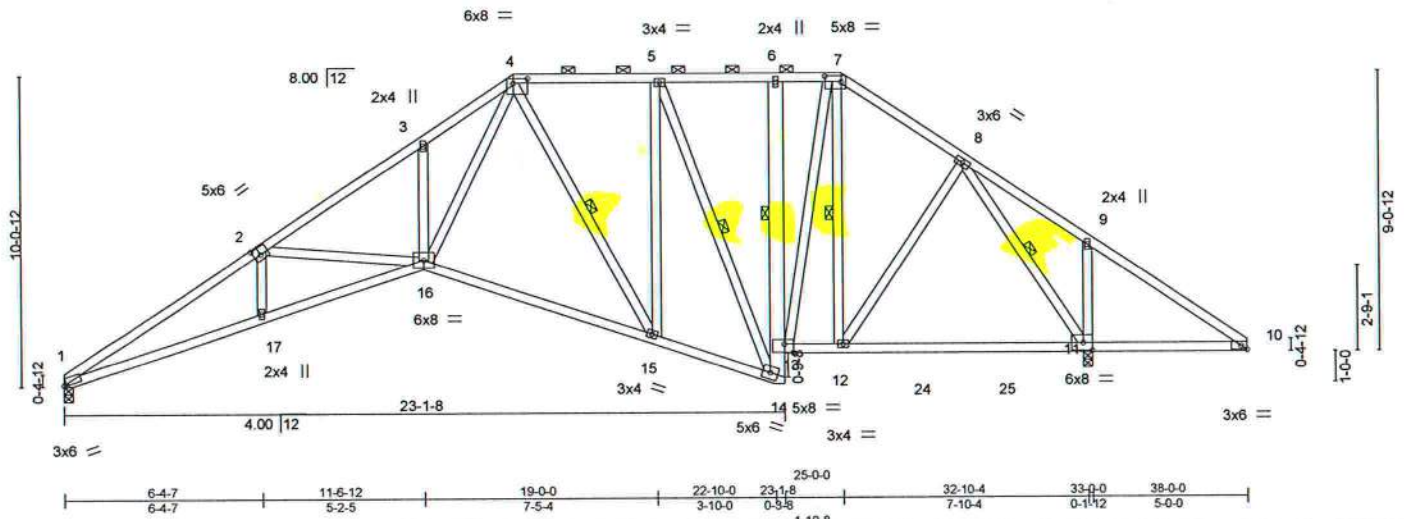


Plate Offsets (X,Y)-- [1:0-1-1,0-0-5], [2:0-2-12,0-3-0], [4:0-5-8,0-1-12], [7:0-6-4,0-2-4], [10:0-2-3,Edge], [11:0-3-8,0-3-0], [13:0-3-8,0-3-4]

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 0.47	Vert(LL)	0.25	16	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.49	15-16	>802	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.35	11	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 264 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-14: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins, except
2-0-0 oc purlins (5-5-4 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 5-1-11 oc bracing. Except:
1 Row at midpt 6-13
1 Row at midpt 5-14, 7-12, 4-15, 8-11

REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=305(LC 9)
Max Uplift 1=433(LC 12), 11=542(LC 13)
Max Grav 1=1186(LC 1), 11=1626(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3322/1435, 2-3=-2735/1159, 3-4=-2717/1319, 4-5=-1101/675, 5-6=-838/565,
6-7=-870/574, 7-8=-982/549, 8-9=-102/301, 9-10=-300/336
BOT CHORD 1-17=-1296/2837, 16-17=-1293/2853, 15-16=-570/1436, 14-15=-435/1166,
13-14=-195/453, 12-13=-240/763, 11-12=-148/554, 10-11=-234/311
WEBS 2-16=-657/451, 3-16=-323/284, 4-16=-915/1975, 5-14=-804/347, 7-13=-301/449,
8-12=-173/386, 9-11=-351/321, 5-15=-147/544, 4-15=-603/273, 8-11=-1403/670

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=433, 11=542.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

September 23, 2020

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2228807	Truss T10G	Truss Type GABLE	Qty 1	Ply 1	D and G Properties - Spec Hse	T21387805
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

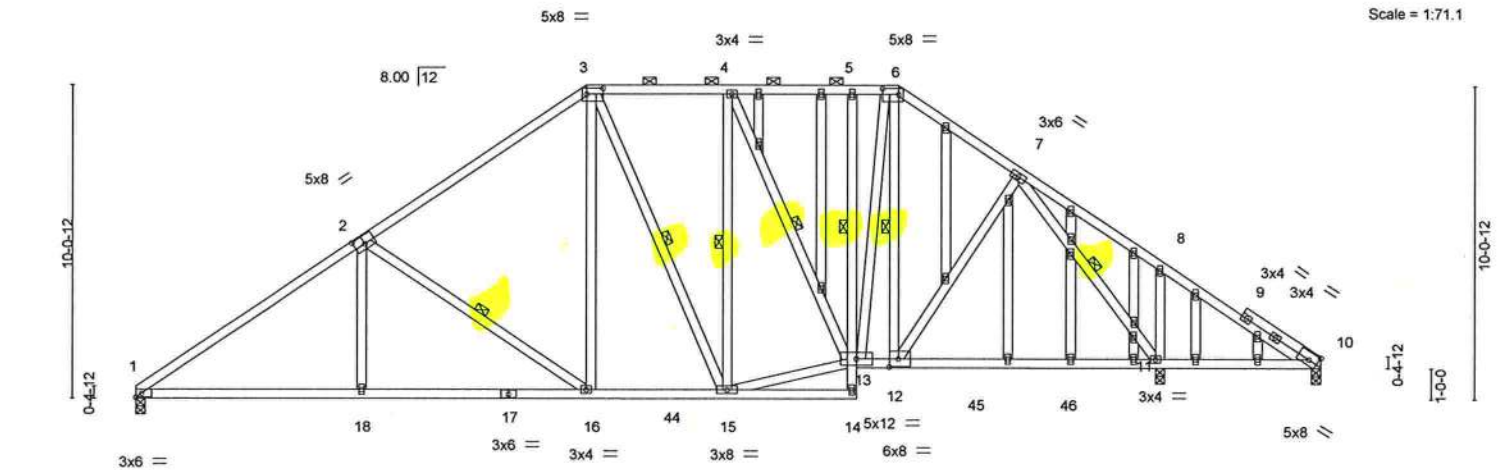
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:03 2020 Page 1

ID:E53YHFcg7mKH6YUQ8uoUPzsYXY-fzr9VUB0k2xHXkRgFf7df1CiVyBMAzLJLN_gz7yajAY

Job Reference (optional)

7-3-5	14-6-0	19-0-0	23-1-8	24-5-11	28-3-15	32-10-4	38-0-0
7-3-5	7-2-11	4-6-0	4-1-8	1-4-3	3-10-4	4-6-5	5-1-12

Scale = 1:71.1



7-3-5	14-6-0	19-0-0	23-1-8	24-5-11	32-8-8	32-10-4	38-0-0
7-3-5	7-2-11	4-6-0	4-1-8	1-4-3	8-2-13	0-1-12	5-1-12

Plate Offsets (X,Y)→	[2:0-4-0,0-3-0], [3:0-6-4,0-2-4], [6:0-6-4,0-2-4], [10:Edge,0-3-0], [12:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.12 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.23 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.06 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 318 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-14: 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

REACTIONS.

(size) 10=0-3-8, 1=0-3-8, 11=0-3-8
Max Horz 1=305(LC 9)
Max Uplift 10=55(LC 8), 1=430(LC 12), 11=539(LC 13)
Max Grav 10=75(LC 24), 1=1196(LC 1), 11=1553(LC 1)

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

TOP CHORD 1-2=-1828/824, 2-3=-1313/712, 3-4=-969/670, 4-5=-901/617, 5-6=-900/616,
6-7=-1062/626
BOT CHORD 1-18=-634/1465, 16-18=-634/1464, 15-16=-371/994, 12-13=-244/828, 11-12=-170/677
WEBS 2-18=0/317, 2-16=-689/450, 3-16=-204/523, 13-15=-340/903, 6-13=-319/472,
7-12=-152/343, 8-11=-348/325, 7-11=-1368/574, 3-15=-255/138

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 1=430, 11=539.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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September 23,2020

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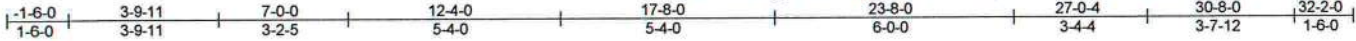


Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse	
2228807	T11	Hip Girder	1	1	Job Reference (optional)	T21387806

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8,240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:05 2020 Page 1

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Scale = 1:55.7

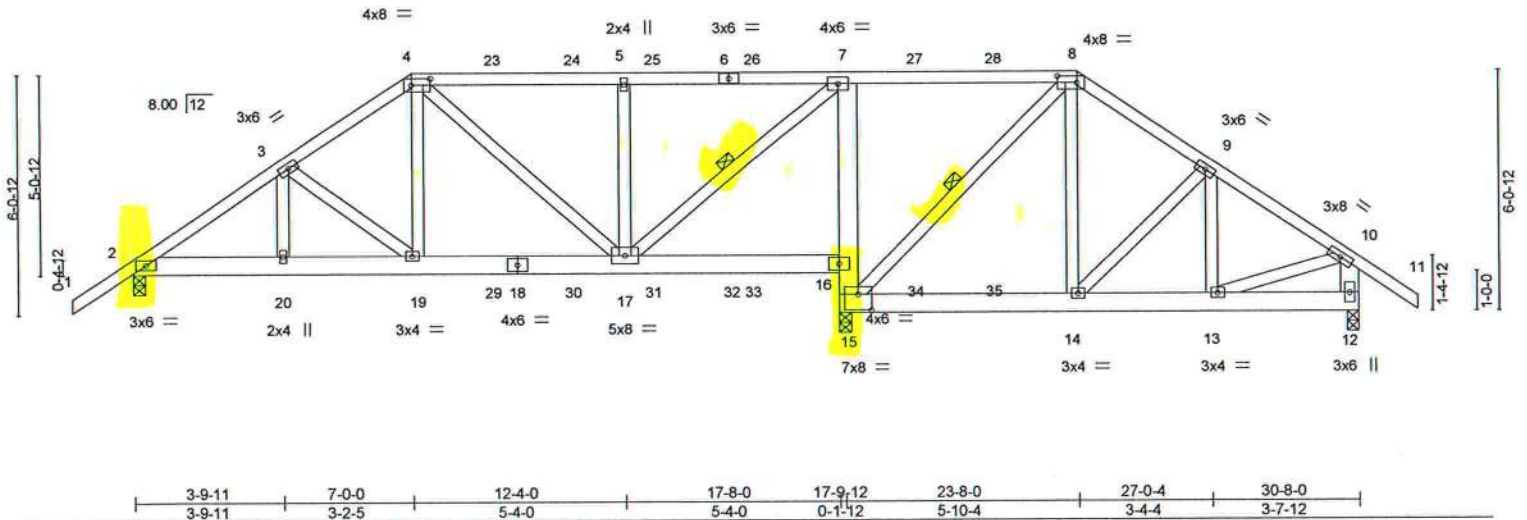


Plate Offsets (X,Y) - [4-0-5-12,0-2-0], [8-0-5-12,0-2-0], [15-0-4-0,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.09 17-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.09 17-19	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.67	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 218 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
10-12: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-1 oc bracing.
WEBS 1 Row at midpt 7-17, 8-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=0-3-8
Max Horz 2=-182(LC 25)
Max Uplift 2=-780(LC 5), 15=-2208(LC 5), 12=-517(LC 9)
Max Grav 2=1162(LC 19), 15=2824(LC 1), 12=736(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1705/1239, 3-4=-1539/1194, 4-5=-1060/880, 5-7=-1060/880, 7-8=-214/353,
8-9=-649/616, 9-10=-645/502, 10-12=-677/505
BOT CHORD 2-20=-1116/1379, 19-20=-1116/1379, 17-19=-1040/1290, 16-17=-298/260,
15-16=-1950/1589, 7-16=-1553/1339, 14-15=-321/491, 13-14=-303/474
WEBS 4-19=-592/763, 4-17=-273/236, 5-17=-364/395, 7-17=-1404/1770, 8-15=-990/751,
8-14=-640/805, 9-14=-268/277, 10-13=-307/469

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=780, 15=2208, 12=517.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 91 lb up at 7-0-0, 92 lb down and 87 lb up at 9-0-12, 92 lb down and 87 lb up at 11-0-12, 92 lb down and 87 lb up at 13-0-12, 92 lb down and 87 lb up at 15-0-12, 92 lb down and 87 lb up at 15-7-4, 92 lb down and 87 lb up at 17-7-4, 100 lb down and 90 lb up at 19-7-4, and 100 lb down and 90 lb up at 21-7-4, and 90 lb down and 93 lb up at 23-7-15 on top chord, and 452 lb down and 452 lb up at 7-0-0, 185 lb down and 123 lb up at 9-0-12, 185 lb down and 123 lb up at 11-0-12, 185 lb down and 123 lb up at 13-0-12, 185 lb down and 123 lb up at 15-0-12, 185 lb down and 123 lb up at 15-7-4, 179 lb down and 123 lb up at 17-10-12, 163 lb down and 159 lb up at 19-7-4, and 163 lb down and 159 lb up at 21-7-4, and 452 lb down and 487 lb up at 23-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2



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Date:

September 23, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss T11	Truss Type Hip Girder	Qty 1	Ply 1	D and G Properties - Spec Hse T21387806
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:05 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-10=-54, 10-11=-54, 2-16=-20, 12-15=-20

Concentrated Loads (lb)

Vert: 4=-18(B) 6=-18(B) 8=-26(B) 7=-18(B) 19=-427(B) 14=-377(B) 16=-156(B) 23=-18(B) 24=-18(B) 25=-18(B) 26=-18(B) 27=-26(B) 28=-26(B) 29=-156(B)
30=-156(B) 31=-156(B) 32=-156(B) 33=-156(B) 34=-140(B) 35=-140(B)



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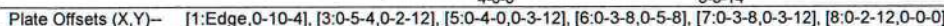
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information - available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:09 2020 Page 1
ID: E53YHEc9nZmkH6YUQ8uoIPzYXY-IJ6CQmYGNKuhRFFuqcy61yISpNKLlaboCjJR AnvalAS



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Job 2228807	Truss T12	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	D and G Properties - Spec Hse T21387807
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:09 2020 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-1137 9=-1196(B) 10=-1196(B) 11=-1196(B) 12=-1196(B) 13=-1196(B) 14=-1129



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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



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Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse	
2228807	T13	Common	1	1	Job Reference (optional)	T21387808

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:13 2020 Page 1

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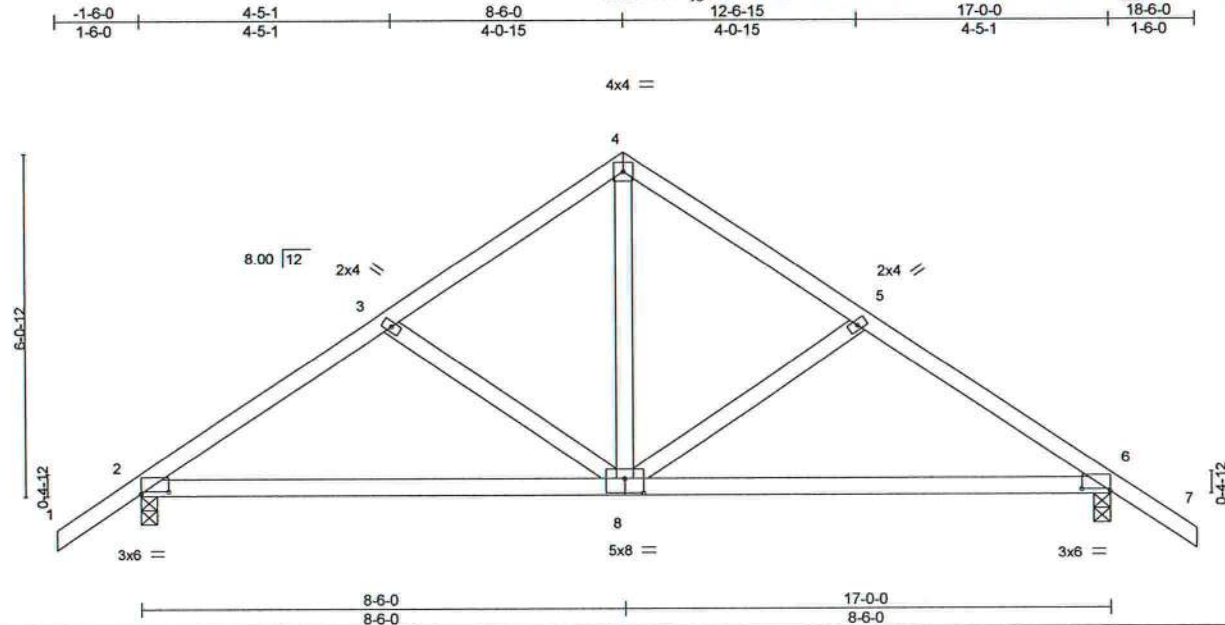


Plate Offsets (X,Y)-- [2:0-6-0,0-0-7], [6:0-6-0,0-0-7], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.29		Vert(LL)	-0.08	8-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.63		Vert(CT)	-0.17	8-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18		Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 84 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-212(LC 10)
Max Uplift 2=-287(LC 12), 6=-287(LC 13)
Max Grav 2=710(LC 1), 6=710(LC 1)

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

TOP CHORD 2-3=-843/396, 3-4=-688/331, 4-5=-688/331, 5-6=-843/395
BOT CHORD 2-8=-285/741, 6-8=-211/678
WEBS 4-8=-204/548, 5-8=-323/251, 3-8=-323/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=287, 6=287.



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Date:

September 23,2020

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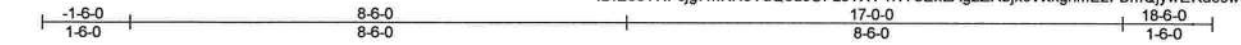
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Tampa, FL 33610

Job 2228807	Truss T13G	Truss Type Common Supported Gable	Qty 1	Ply 1	D and G Properties - Spec Hse T21387809
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:16 2020 Page 1
ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-nT73ExLAg2ZRbjx9WtkghmE2FBmQjywEKueswtajAL



Scale = 1:37.9

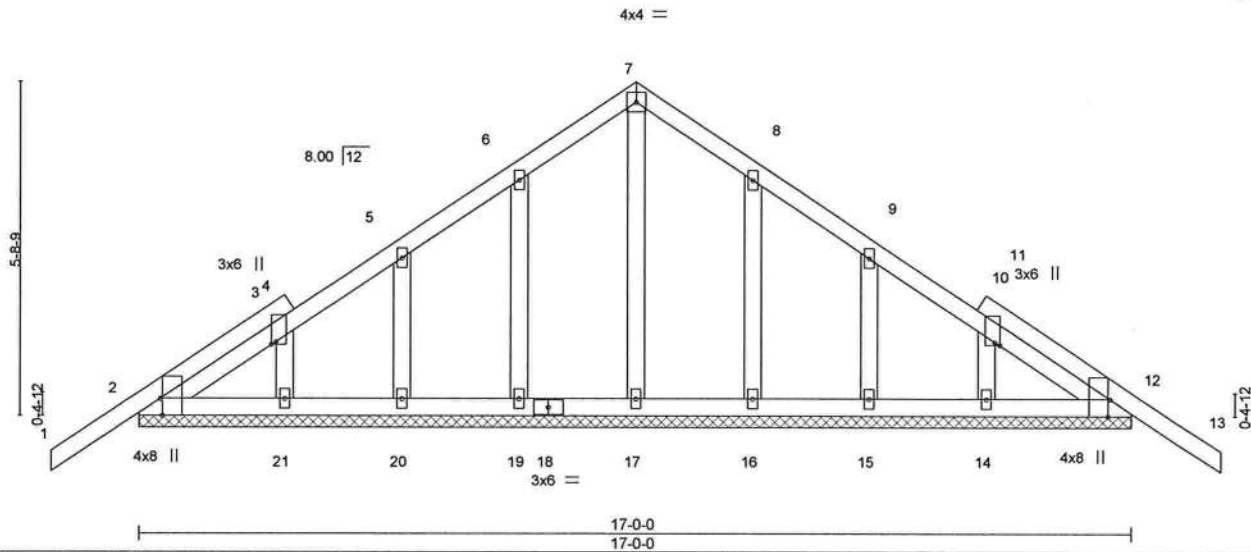


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-0-9,0-1-0], [11:0-0-9,0-1-0], [12:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.01	13	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 99 lb	FT = 20%

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

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

REACTIONS. All bearings 17-0-0.
(b) - Max Horz 2=201(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12 except 19=120(LC 12), 20=110(LC 12), 21=103(LC 12), 16=118(LC 13), 15=113(LC 13), 14=105(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 19, 20, 21, 16, 15, 14

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12 except (jt=lb) 19=120, 20=110, 21=103, 16=118, 15=113, 14=105.



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September 23,2020

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	D and G Properties - Spec Hse	T21387810
2228807	T14	Common	3	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:20 2020 Page 1
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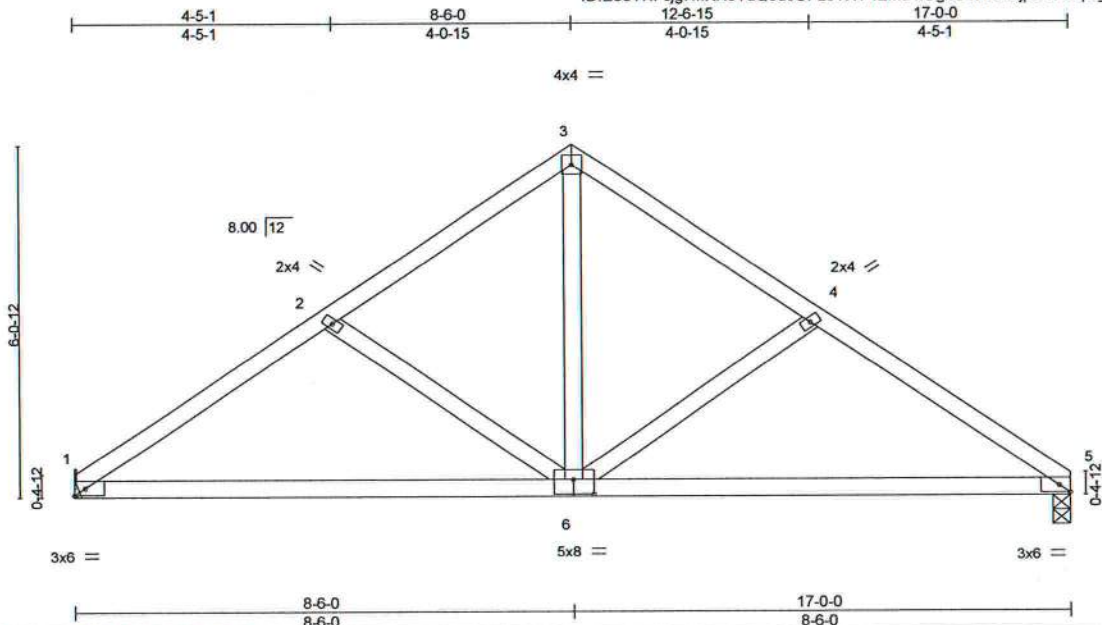


Plate Offsets (X,Y) -		[5:0-2-3,Edge], [6:0-4-0,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	-0.08	6-12	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.18	6-12	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.02	5	n/a	n/a			
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 79 lb	FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=Mechanical, 5=0-3-8
Max Horz 1=-180(LC 10)
Max Uplift 1=-234(LC 12), 5=-234(LC 13)
Max Grav 1=629(LC 1), 5=629(LC 1)

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

TOP CHORD 1-2=-864/419, 2-3=-691/351, 3-4=-691/351, 4-5=-864/419
BOT CHORD 1-6=-323/744, 5-6=-275/697
WEBS 3-6=-232/554, 4-6=-315/263, 2-6=-315/262

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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=234, 5=234.



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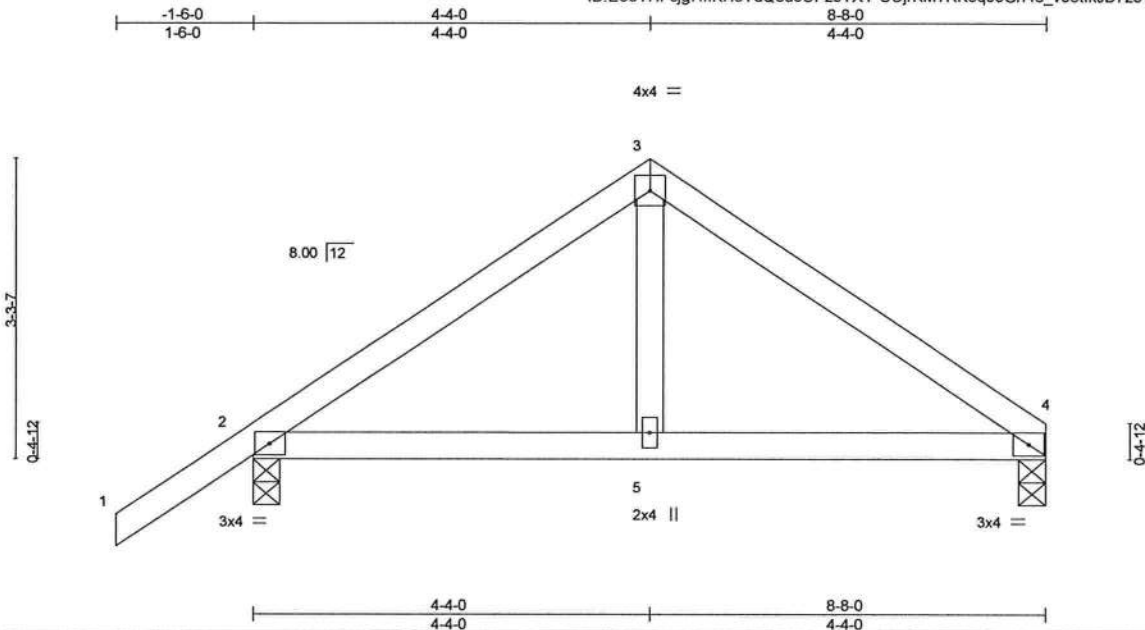


6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss T15	Truss Type Common	Qty 1	Ply 1	D and G Properties - Spec Hse T21387811
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:26 2020 Page 1
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Scale = 1:24.2

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 0.25	Vert(LL)	0.03	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	0.03	5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 36 lb	FT = 20%

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

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

REACTIONS. (size) 4=0-3-8, 2=0-3-8
Max Horz 2=113(LC 9)
Max Uplift 4=116(LC 13), 2=177(LC 12)
Max Grav 4=314(LC 1), 2=409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-372/480, 3-4=-369/477
BOT CHORD 2-5=-316/260, 4-5=-316/260
WEBS 3-5=-329/195

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=116, 2=177.



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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:28 2020 Page 1
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[illegible]

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 0.25	Vert(LL) 0.02 8-19 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Vert(CT) -0.02 8-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS		Weight: 46 lb	FT = 20%

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

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 8-8-0 oc bracing.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-113(LC 10)
Max Uplift 2=-178(LC 12), 6=-178(LC 13)
Max Grav 2=399(LC 1), 6=399(LC 1)

TOP CHORD 2-4=-297/410, 4-6=-297/408
BOT CHORD 2-8=-445/416, 6-8=-445/416
WEBS 4-8=-254/165

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=-0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2'-0" oc.
- 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" tall by 2'-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=178. 6=178.



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September 23, 2020

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WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED W/TER REFERENCE PAGE 11/17/16, 3/26/2020 FOR ONE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2067 Crain Highway, Suite 203 Waldorf, MD 20601



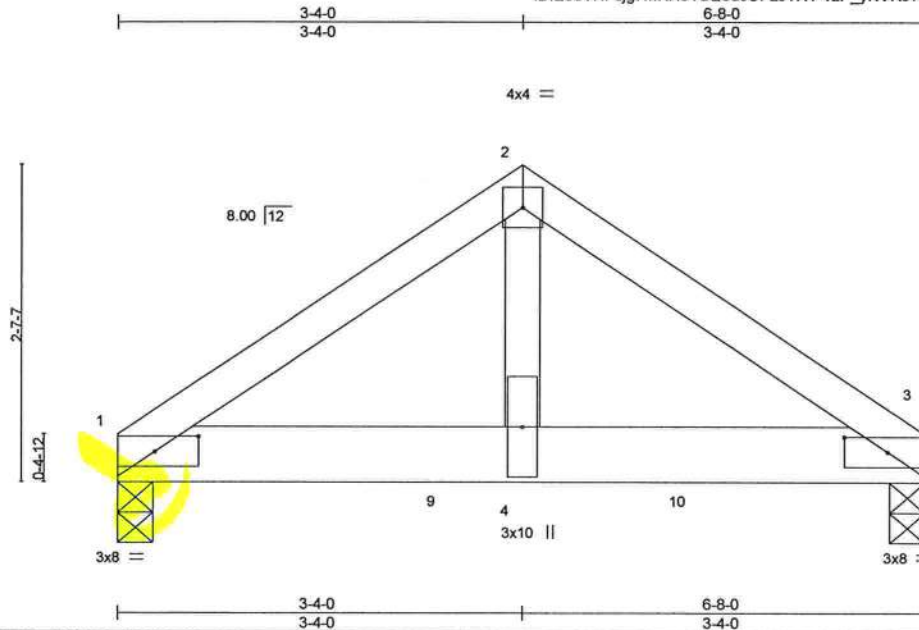
6904 Parke East Blvd.
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Job 2228807	Truss T16	Truss Type Common Girder	Qty 1	Ply 2	D and G Properties - Spec Hse T21387813
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8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:29 2020 Page 1

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Scale = 1:18.3

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

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 0.17	Vert(LL)	-0.02	4-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.03	4-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 62 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=-71(LC 25)
Max Uplift 1=-889(LC 8), 3=-632(LC 9)
Max Grav 1=2394(LC 1), 3=1699(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2297/865, 2-3=-2305/868
BOT CHORD 1-4=-683/1902, 3-4=-683/1902
WEBS 2-4=-854/2327

NOTES-

- 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: 2x6 - 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=889, 3=632.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1202 lb down and 457 lb up at 0-8-12, and 1199 lb down and 460 lb up at 2-8-12, and 1199 lb down and 460 lb up at 4-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 6=-1202(B) 9=-1199(B) 10=-1199(B)



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Date:

September 23,2020

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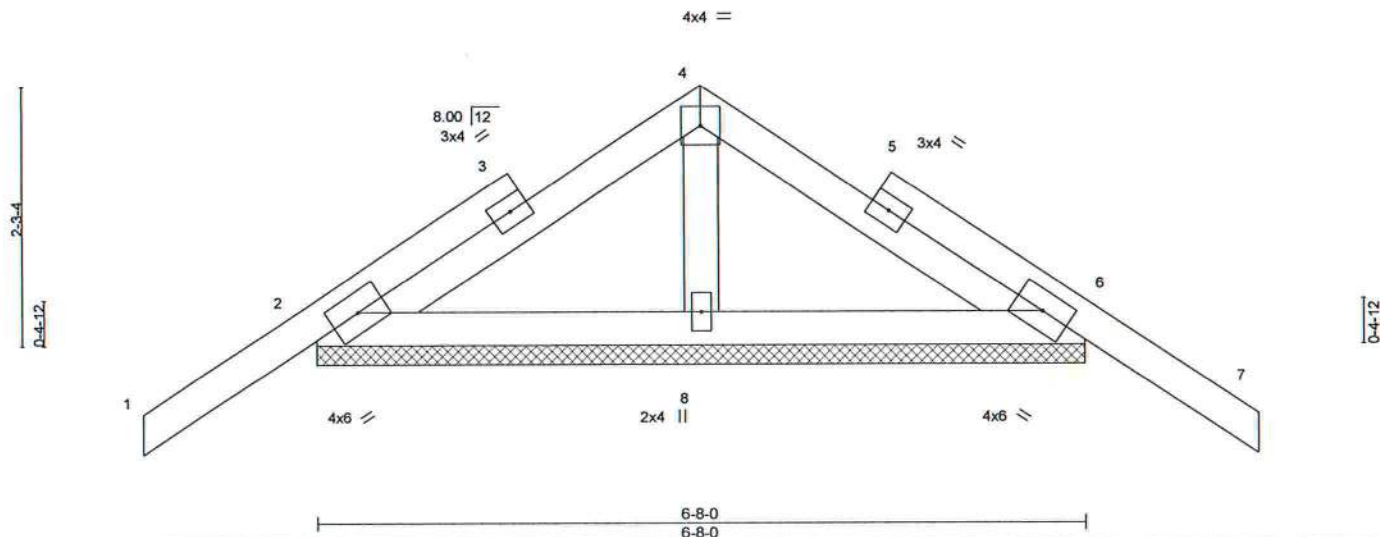
Job 2228807	Truss T16G	Truss Type GABLE	Qty 1	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387814
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:31 2020 Page 1
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Scale = 1:19.3



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 0.20	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P							
									Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 2=6-8-0, 6=6-8-0, 8=6-8-0
Max Horz 2=-91(LC 10)
Max Uplift 2=-99(LC 12), 6=-111(LC 13), 8=-103(LC 12)
Max Grav 2=196(LC 23), 6=196(LC 24), 8=286(LC 1)

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

WEBS 4-8=-302/135

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=111, 8=103.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23, 2020

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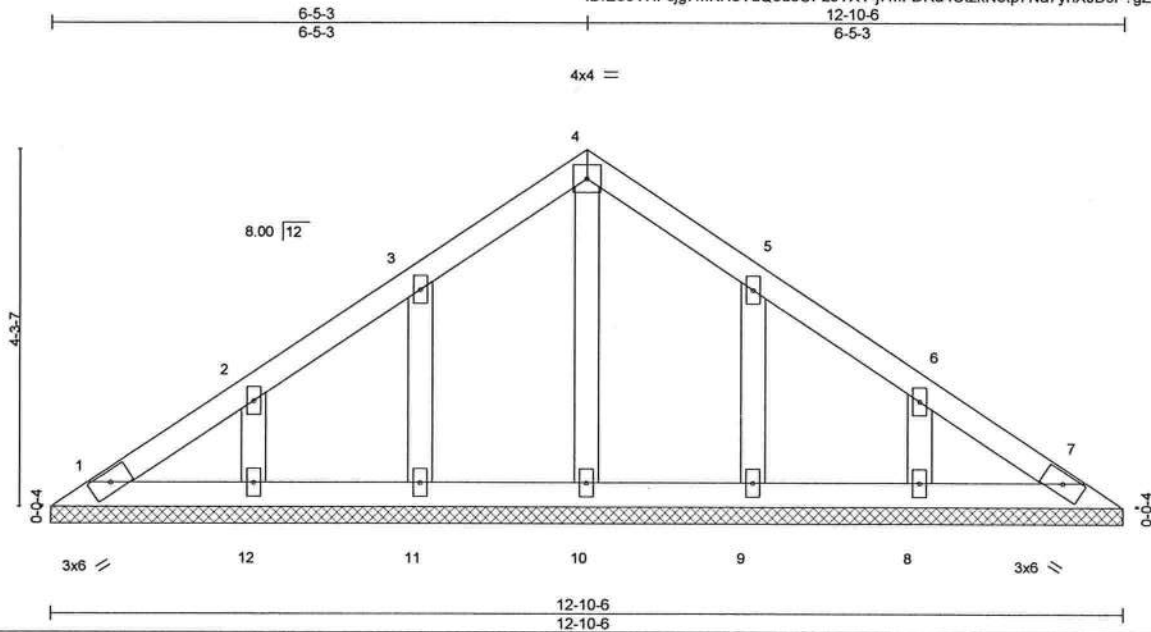
MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job 2228807	Truss V01	Truss Type GABLE	Qty 1	Ply 1	D and G Properties - Spec Hse	T21387815
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:54:35 2020 Page 1
ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-j7mFDRa4CtzkNelp7Na7ynXJDsF?gZ41iMkM5HyajA2



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 0.05	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S					Weight: 56 lb	FT = 20%

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

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

REACTIONS. All bearings 12-10-6.
(lb) - Max Horz 1=126(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=118(LC 12), 12=127(LC 12), 9=117(LC 13), 8=128(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=118, 12=127, 9=117, 8=128.



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Date:

September 23,2020

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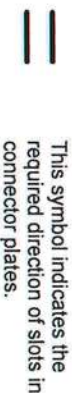
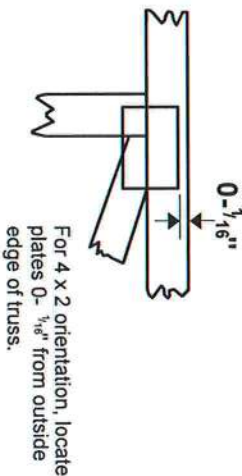
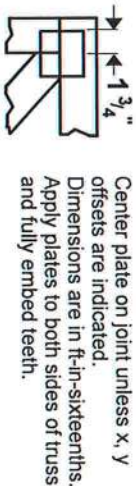
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

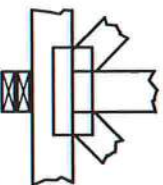
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing.

BCSI: Building Component Safety Information,

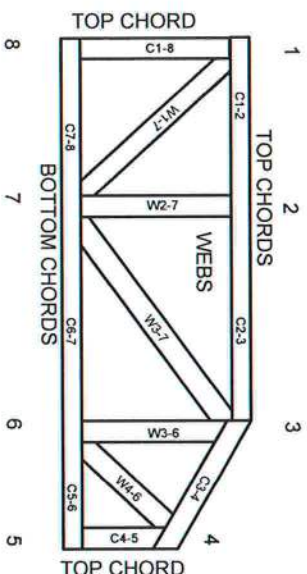
Guide to Good Practice for Handling,

Installing & Bracing of Metal Plate

Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/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. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

Job 2228807	Truss CJ01	Truss Type Jack-Open	Qty 4	Ply 1	D and G Properties - Spec Hse T21387777
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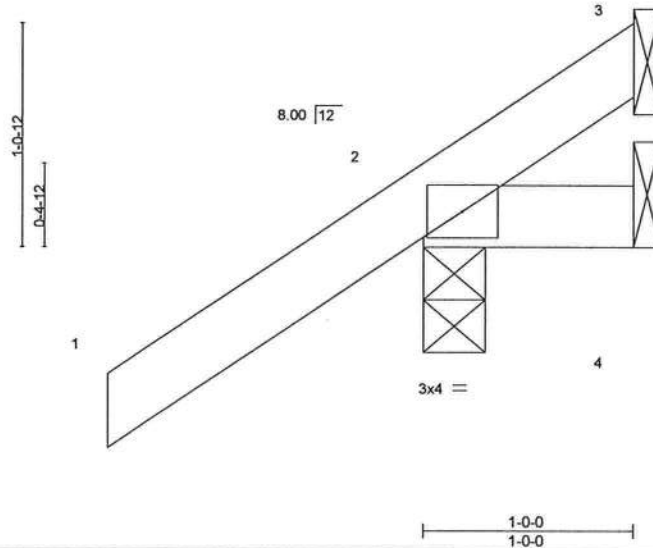
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:33 2020 Page 1

ID:E53YHFcg7mKH6YuQ8uoUPzsYXY-leO7cj5ZxOb2kuZN_IOW02TRogcE5NV4eNBvoLyajBy



Scale = 1:10.5



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 0.19	Vert(LL)	-0.00	7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2017/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=75(LC 12)
Max Uplift 3=-5(LC 1), 2=-112(LC 12), 4=-26(LC 19)
Max Grav 3=10(LC 16), 2=179(LC 1), 4=31(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=112.



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6904 Parke East Blvd. Tampa FL 33610
Date:

September 23,2020

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Tampa, FL 33610

Job 2228807	Truss CJ01A	Truss Type Jack-Open	Qty 2	Ply 1	D and G Properties - Spec Hse Job Reference (optional)	T21387778
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Builders FirstSource (Jacksonville, FL),

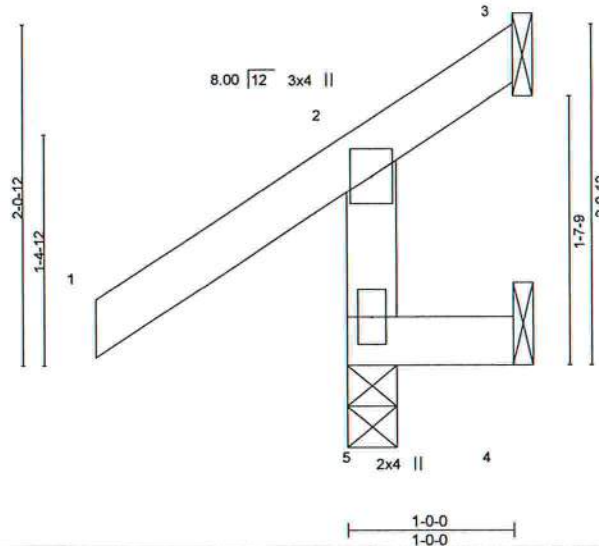
Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 23 14:52:33 2020 Page 1

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-1-6-0
1-6-0
1-0-0
1-0-0

Scale = 1:13.4



LOADING (psf)
TCLL 20.0
TCDL 7.0
BCLL 0.0
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.25
Lumber DOL 1.25
Rep Stress Incr YES
Code FBC2017/TPI2014

CSI.
TC 0.28
BC 0.09
WB 0.00
Matrix-MR

DEFL. in (loc) l/defl L/d
Vert(LL) -0.00 5 >999 240
Vert(CT) -0.00 5 >999 180
Horz(CT) -0.00 3 n/a n/a

PLATES GRIP
MT20 244/190

Weight: 8 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=70(LC 9)
Max Uplift 5=-57(LC 12), 3=-48(LC 1), 4=-33(LC 9)
Max Grav 5=207(LC 1), 3=17(LC 8), 4=33(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 23, 2020

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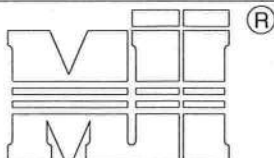
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Tampa, FL 33610

AUGUST 1, 2016

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

ENGINEERED BY
TRENCO
A MiTek Affiliate

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

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

Nailing Pattern

T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

Brace Size for One-Ply Truss

Specified Continuous Rows of Lateral Bracing

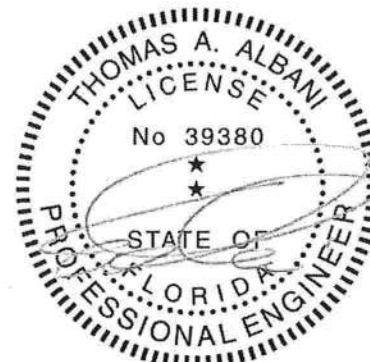
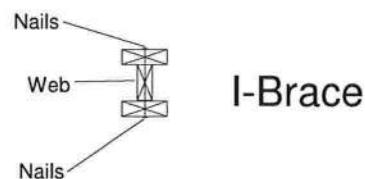
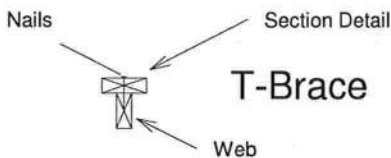
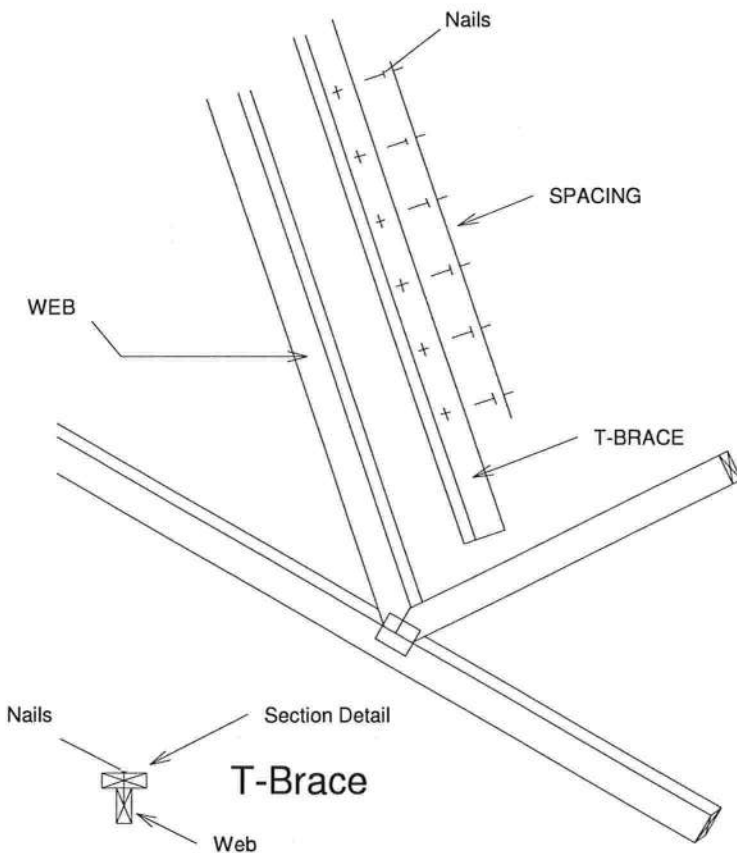
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

Brace Size for Two-Ply Truss

Specified Continuous Rows of Lateral Bracing

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

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



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

February 12, 2018

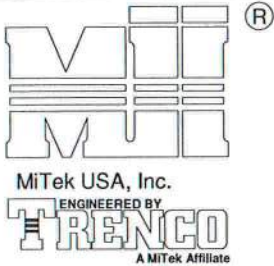
AUGUST 1, 2016

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

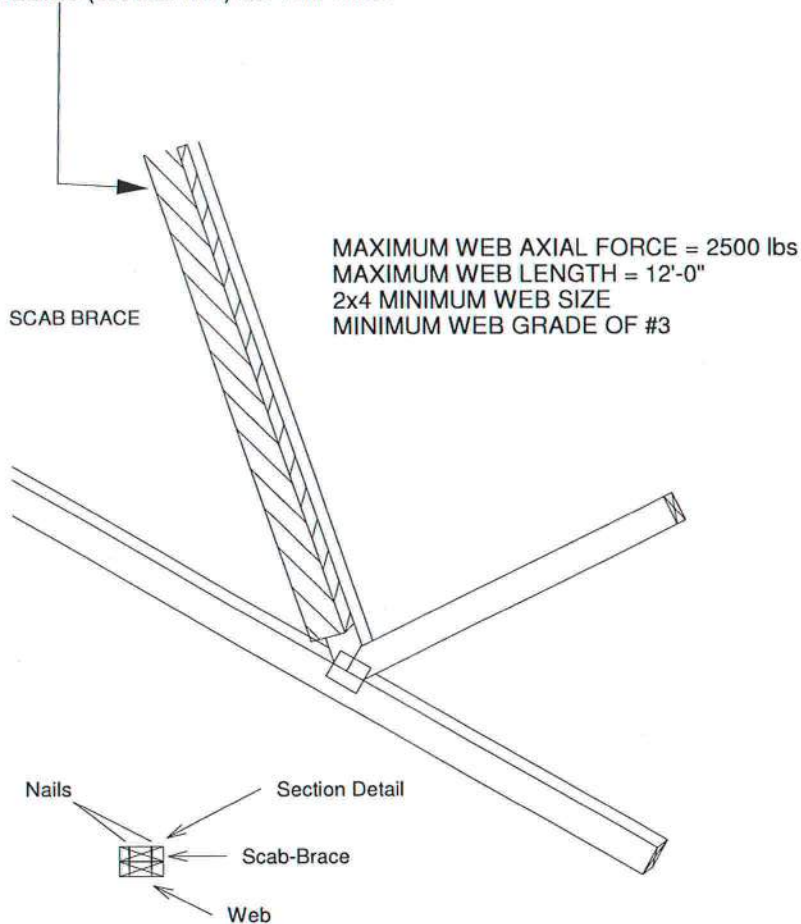
Page 1 of 1



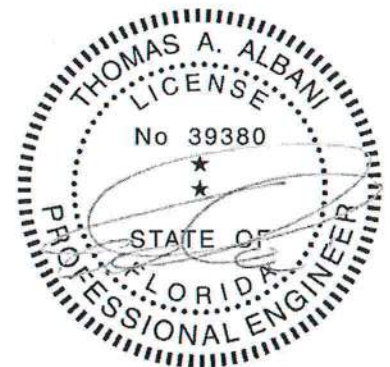
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APPLICABLE 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.

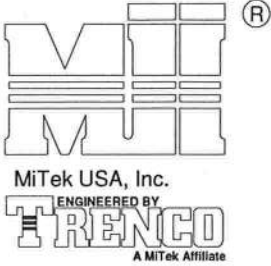


Scab-Brace must be same species grade (or better) as web member.

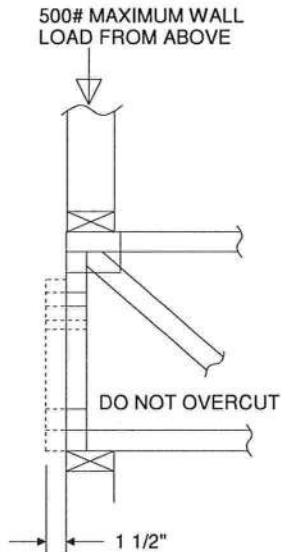


Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

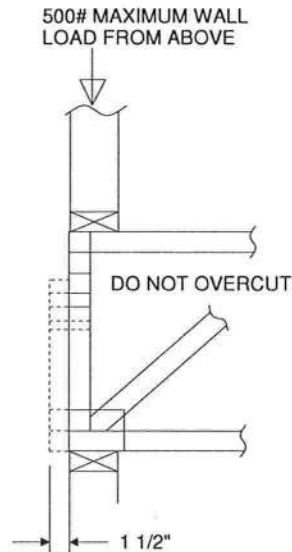
February 12, 2018



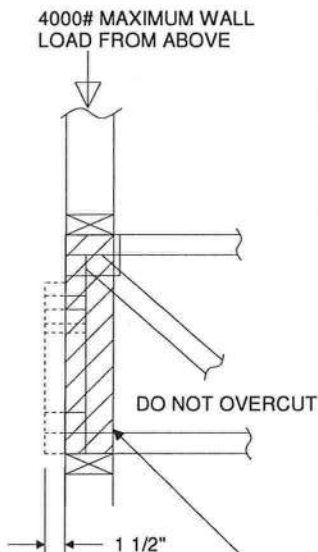
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS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



REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS



REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



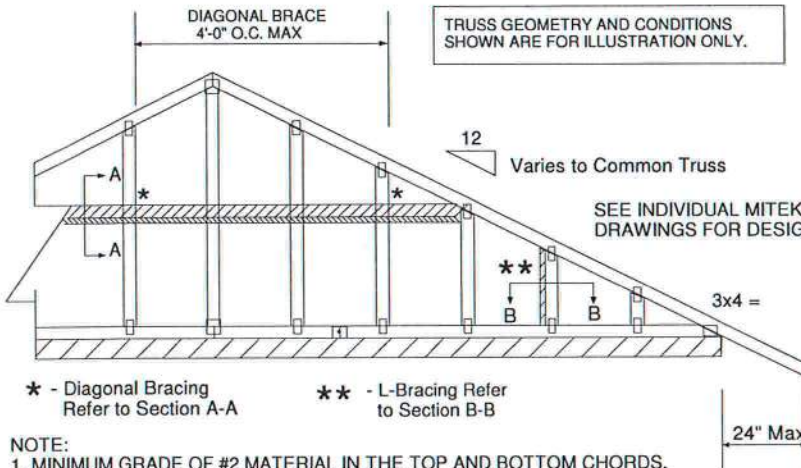
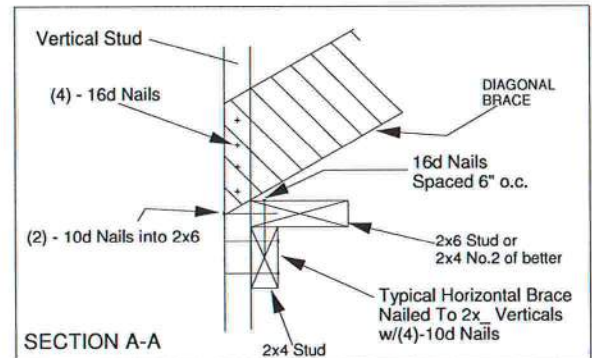
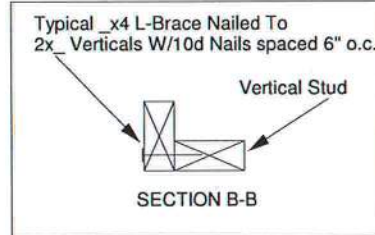
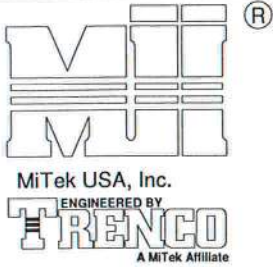
TRUSSES BUILT
WITH 4x2 MEMBERS

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



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

February 12, 2018

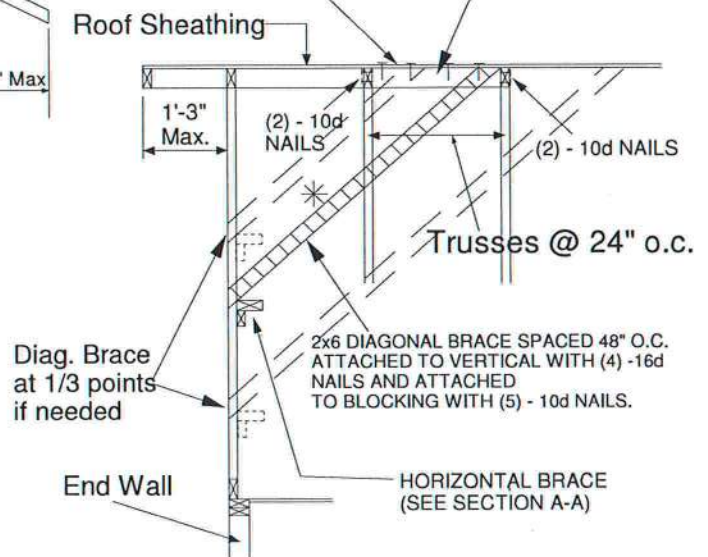


NOTE:

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

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

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

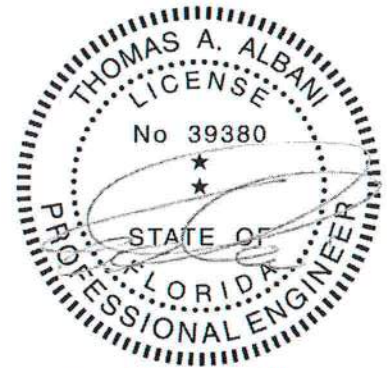


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud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

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

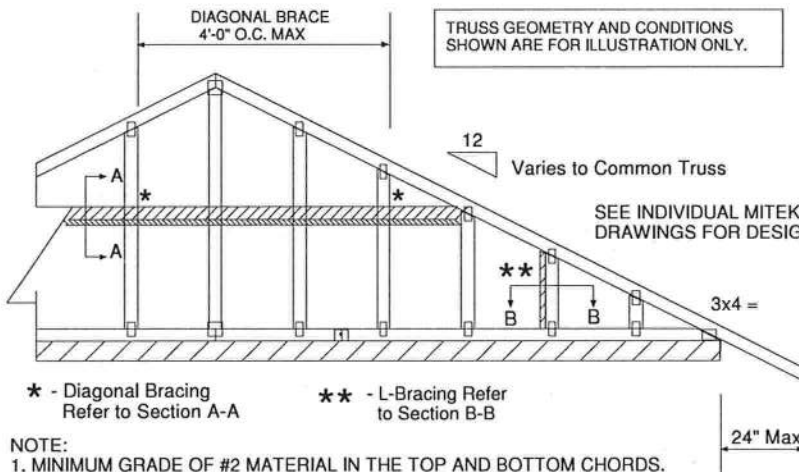
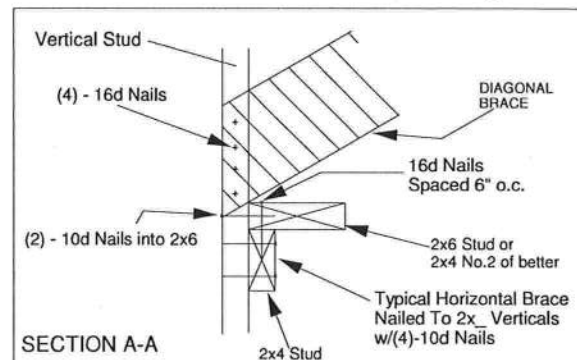
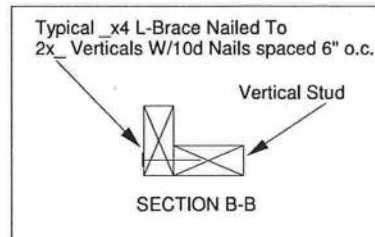
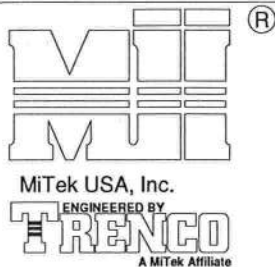
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE D
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

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



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

February 12, 2018

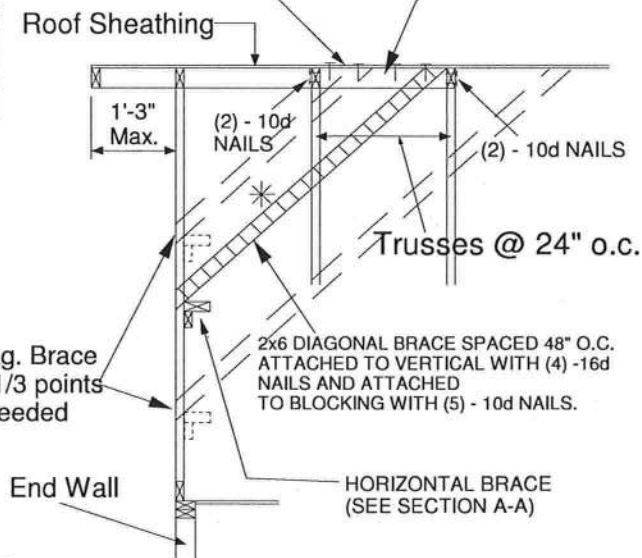


NOTE:

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

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

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

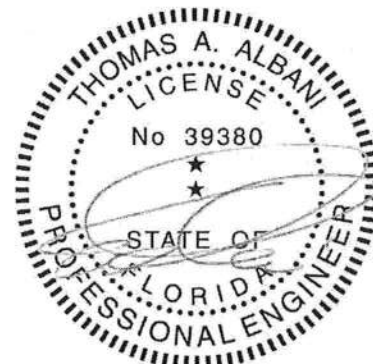


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	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 end distance. Brace must cover 90% of diagonal length.

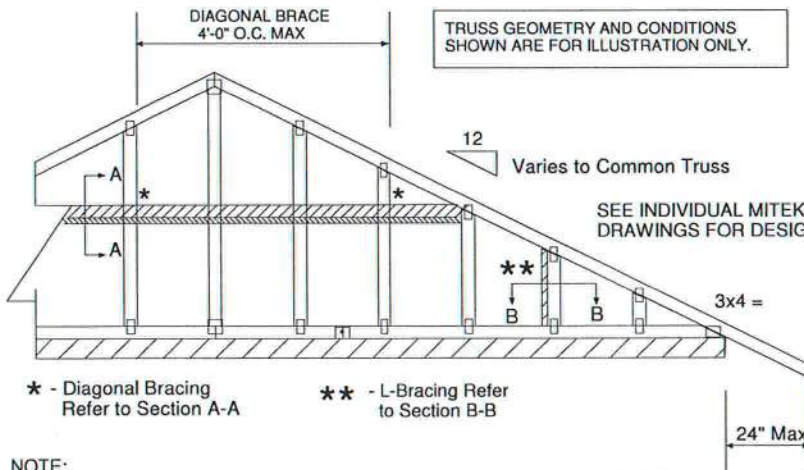
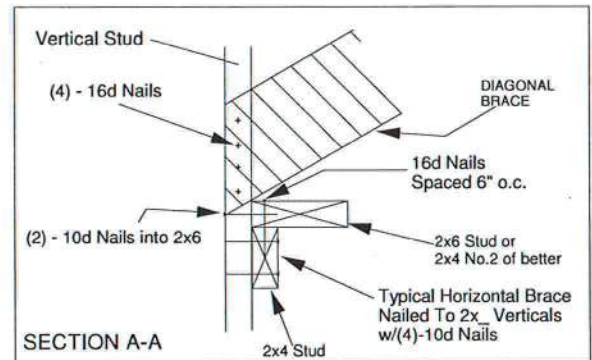
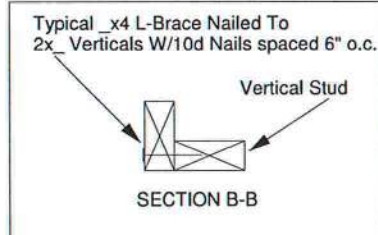
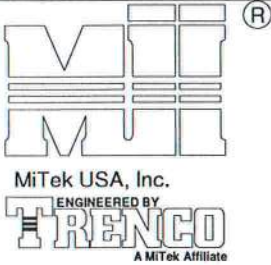
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

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



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

February 12, 2018

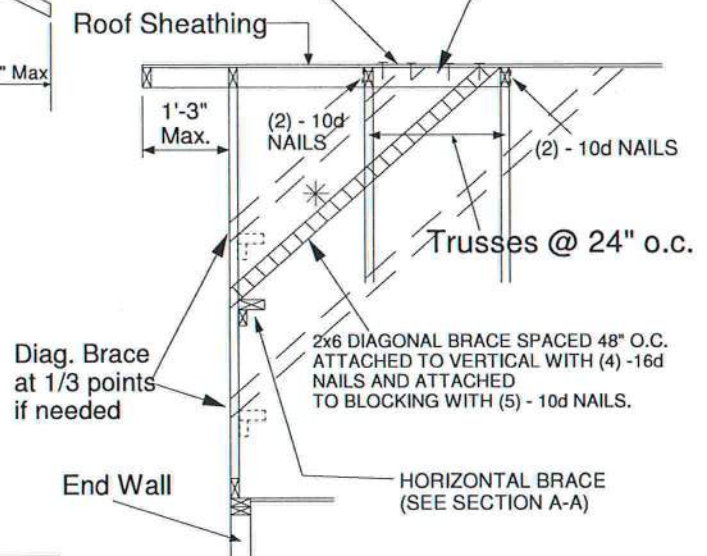


NOTE:

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

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

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

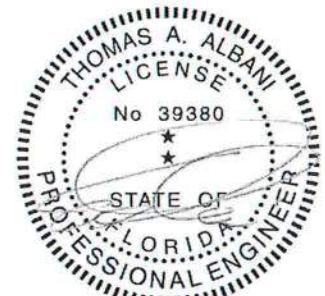


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud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

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 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.

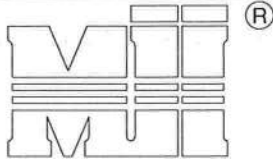
MAXIMUM WIND SPEED = 140 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

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



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

January 19, 2018



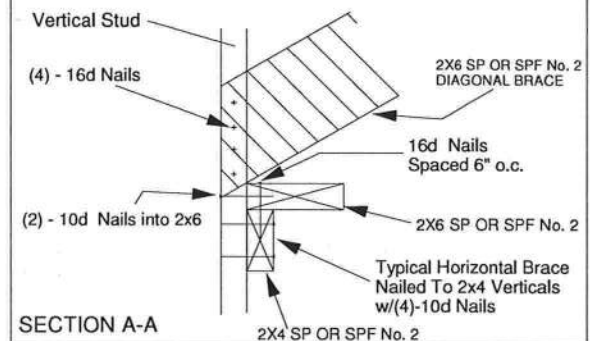
MiTek USA, Inc.

ENGINEERED BY
TRENCO
A MiTek Affiliate

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

Vertical Stud

SECTION B-B



SECTION A-A

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



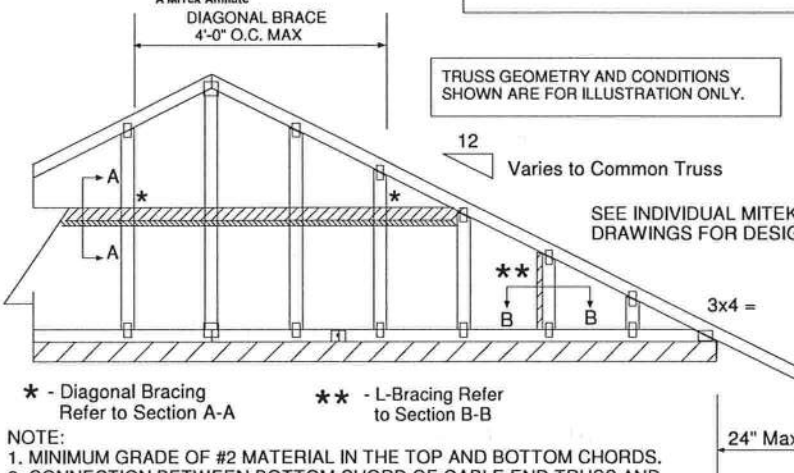
Trusses @ 24" o.c.

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)



* - Diagonal Bracing
Refer to Section A-A

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

NOTE:

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

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

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

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



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

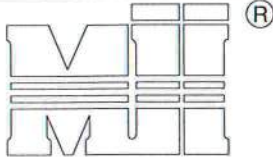
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE180-D-SP

MiTek USA, Inc. Page 1 of 2



MiTek USA, Inc.

ENGINEERED BY
TRENCOA MiTek Affiliate
DIAGONAL BRACE
4'-0" O.C. MAXTypical 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 TrussSEE INDIVIDUAL MITEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA

3x4 =

24" Max

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

NOTE:

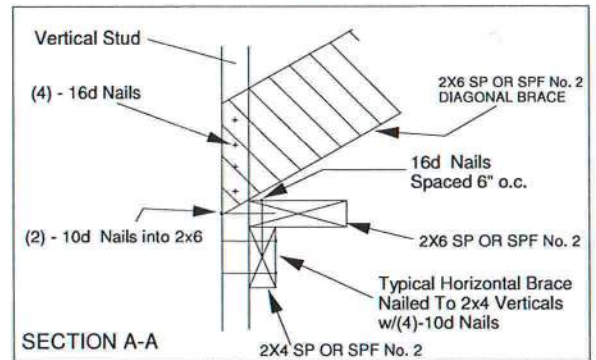
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS $L/240$.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
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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.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

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

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

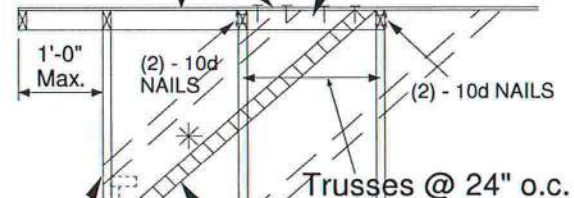
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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

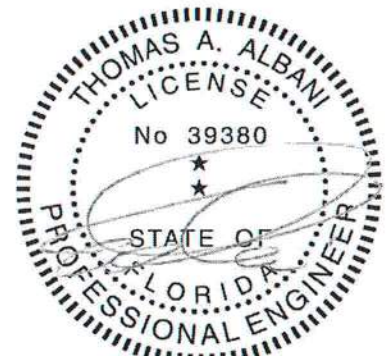
Roof Sheathing



Diag. Brace at 1/3 points if needed

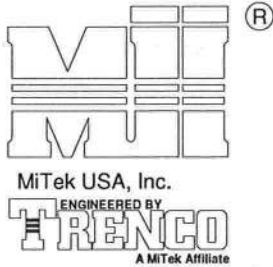
2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) - 16d NAILS, AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.

End Wall

HORIZONTAL BRACE
(SEE SECTION A-A)

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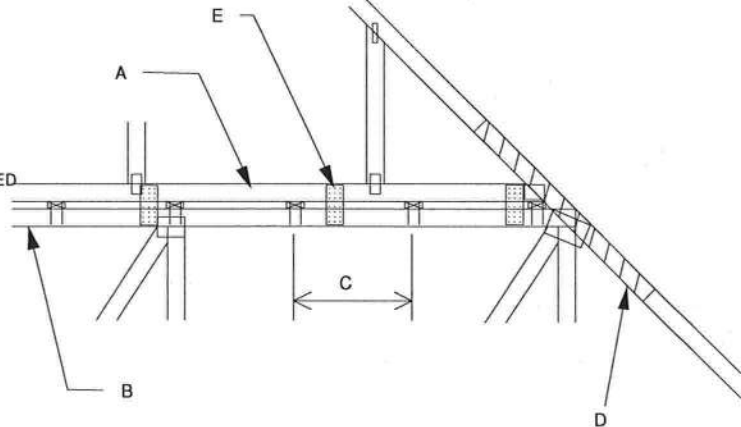
February 12, 2018



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

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

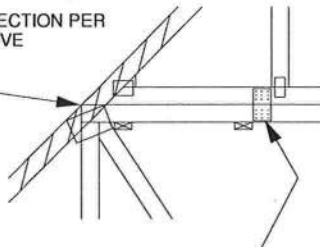
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X $\frac{1}{2}$ " X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



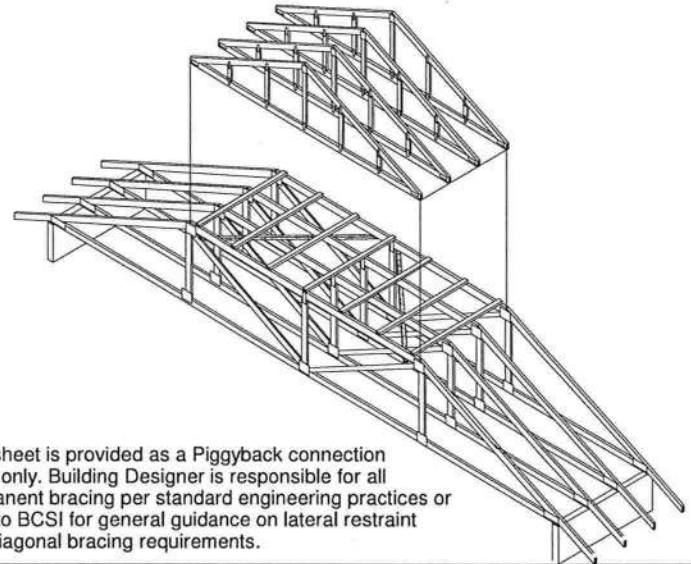
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

SCAB CONNECTION PER
NOTE D ABOVE

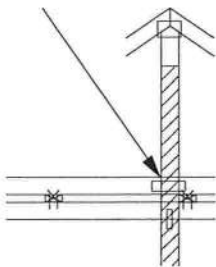


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



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

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



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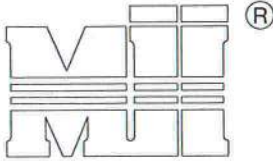
February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK
TRUSS CONNECTION DETAIL

MII-PIGGY-ALT
7-10

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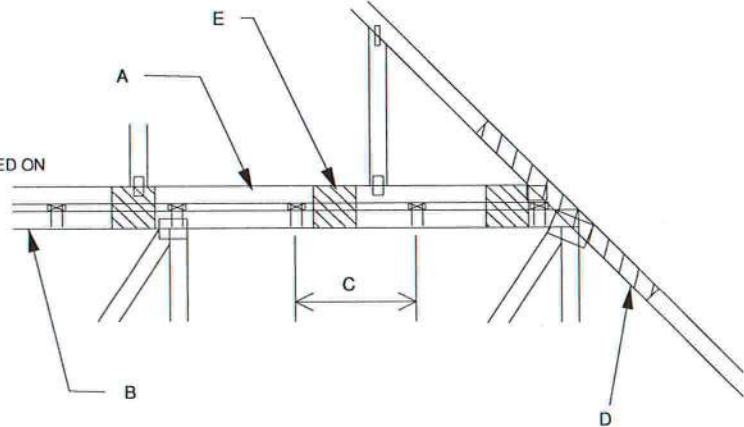
MiTek USA, Inc.



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
ASCE 7-10
DURATION OF LOAD INCREASE : 1.60

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

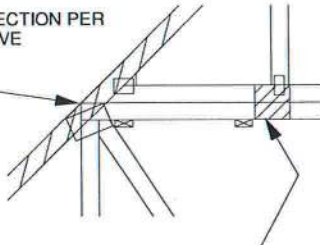
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X $\frac{1}{2}$ " X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 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)



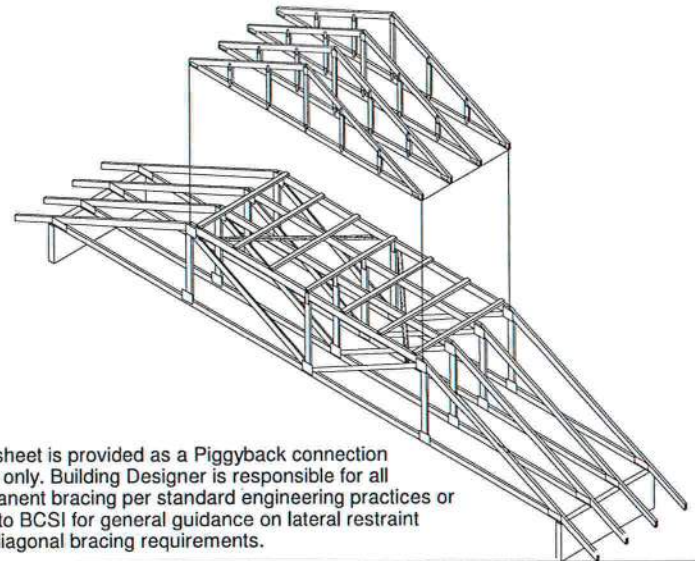
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.

SCAB CONNECTION PER
NOTE D ABOVE

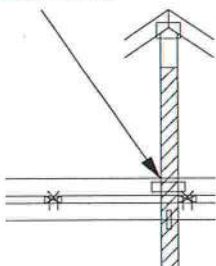


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C.
ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD
FROM EACH SIDE (TOTAL - 12 NAILS)



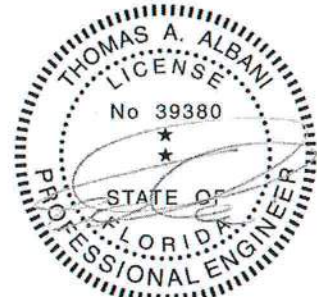
This sheet is provided as a Piggyback connection
detail only. Building Designer is responsible for all
permanent bracing per standard engineering practices or
refer to BCSI for general guidance on lateral restraint
and diagonal bracing requirements.

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



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

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



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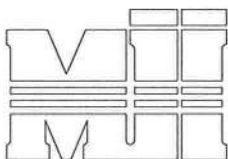
January 19, 2018

AUGUST 1, 2016

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

MII-REP01A1

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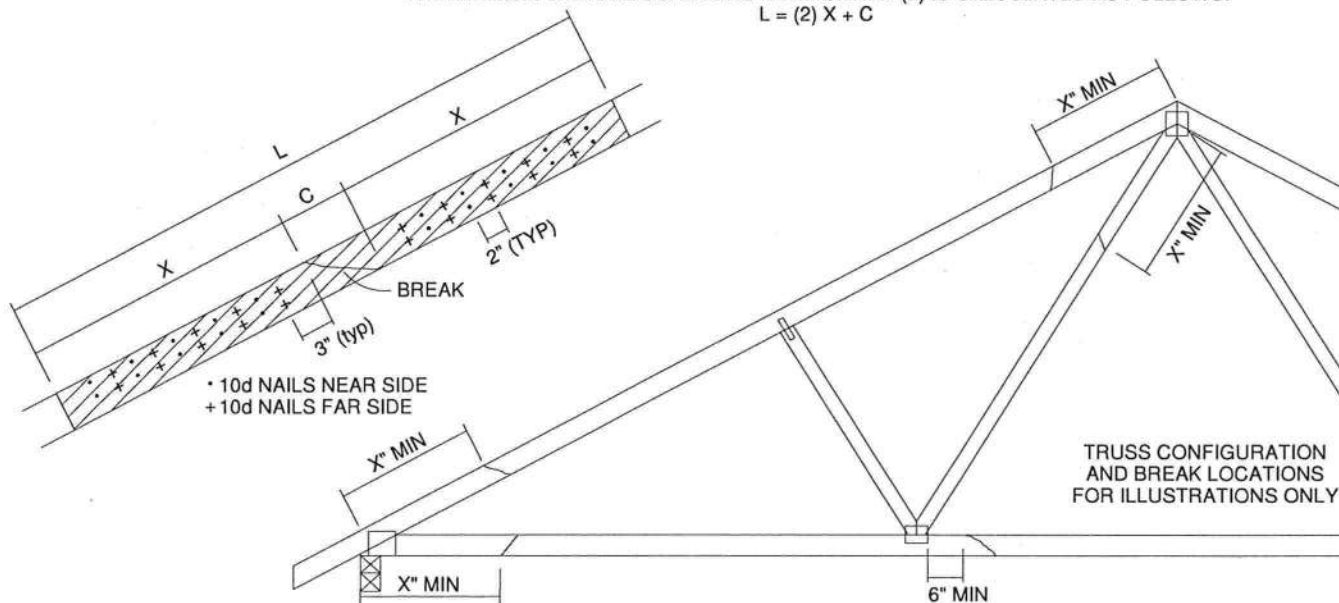
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125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

* DIVIDE EQUALLY FRONT AND BACK

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

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

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

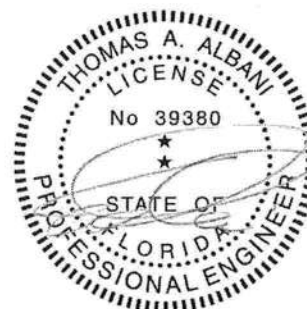


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY
PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

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



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Date:

January 19, 2018

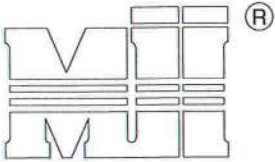
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LATERAL TOE-NAIL DETAIL

MII-TOENAIL_SP

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Page 1 of 1



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NOTES:

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

 THIS DETAIL APPLICABLE TO THE
 THREE END DETAILS SHOWN BELOW

 VIEWS SHOWN ARE FOR
 ILLUSTRATION PURPOSES ONLY

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)						
	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

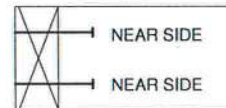
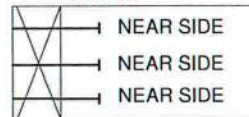
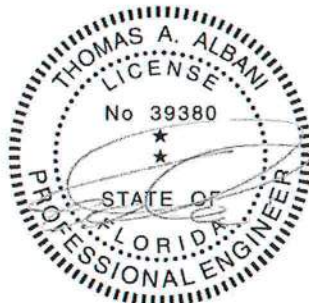
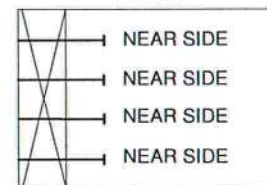
 VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
 APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

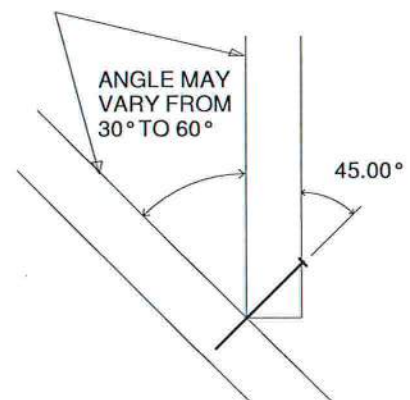
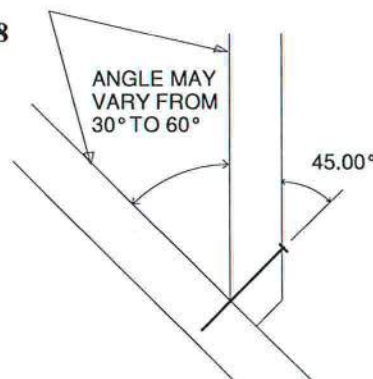
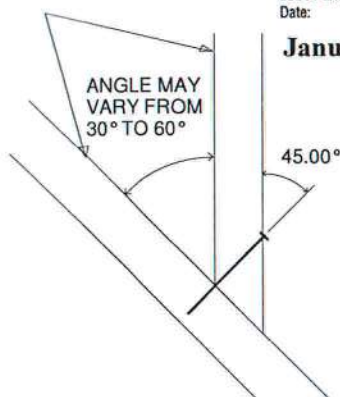
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

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

 SIDE VIEW
 (2x3)
 2 NAILS

 SIDE VIEW
 (2x4)
 3 NAILS

 SIDE VIEW
 (2x6)
 4 NAILS

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January 19, 2018



AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

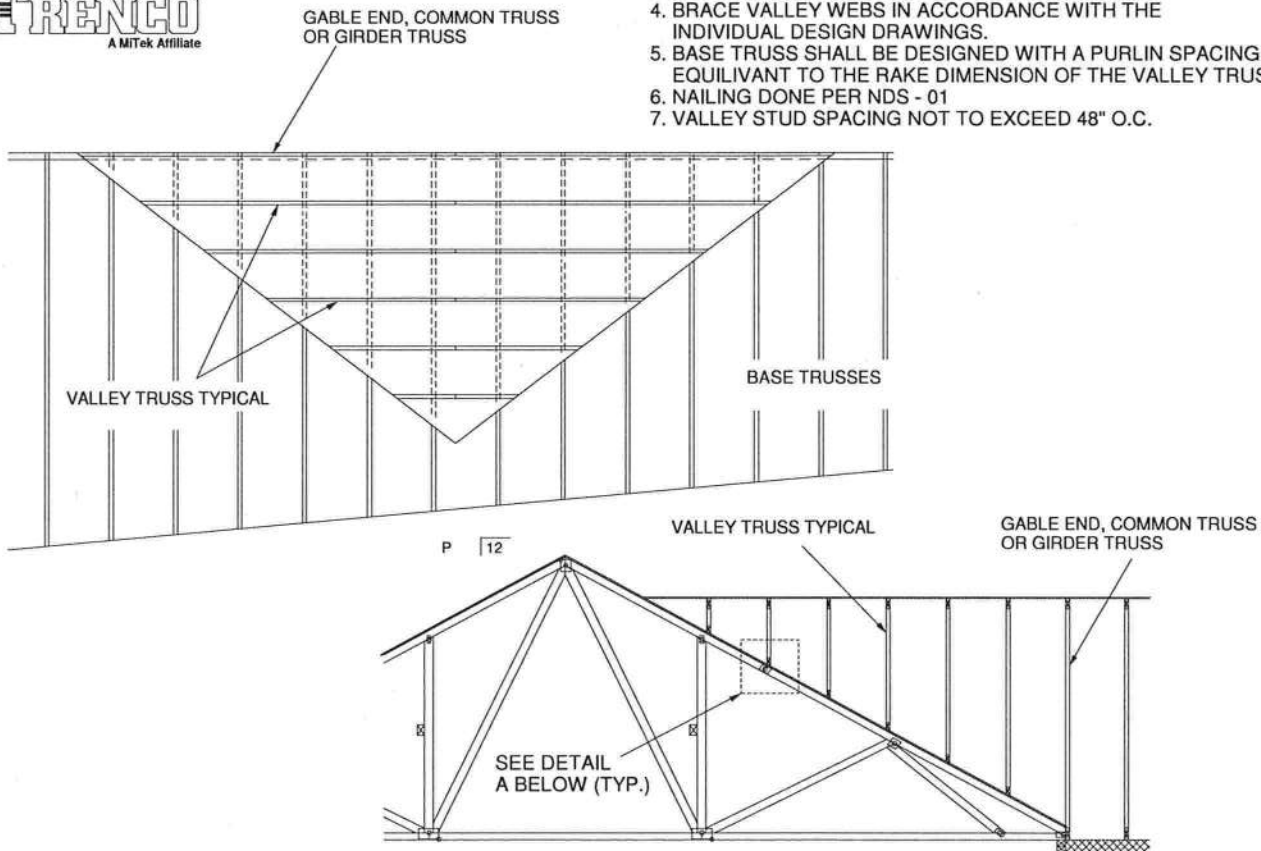
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Page 1 of 1



GENERAL SPECIFICATIONS

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



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

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO USP WS3 (1/4" X 3")
WOOD SCREWS INTO EACH BASE TRUSS.

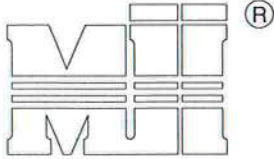
DETAIL A
(NO SHEATHING)
N.T.S.

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



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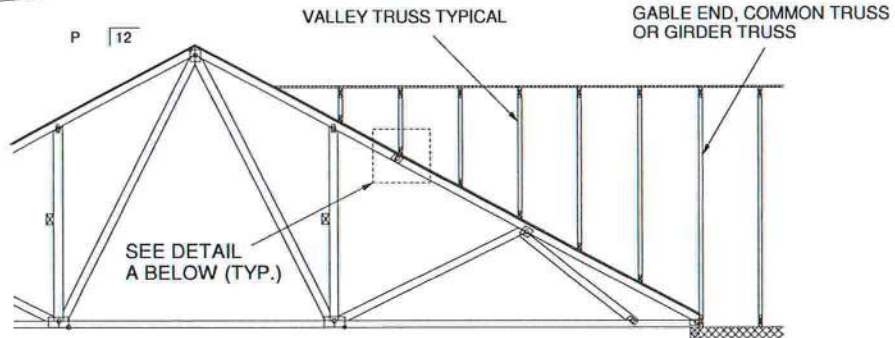
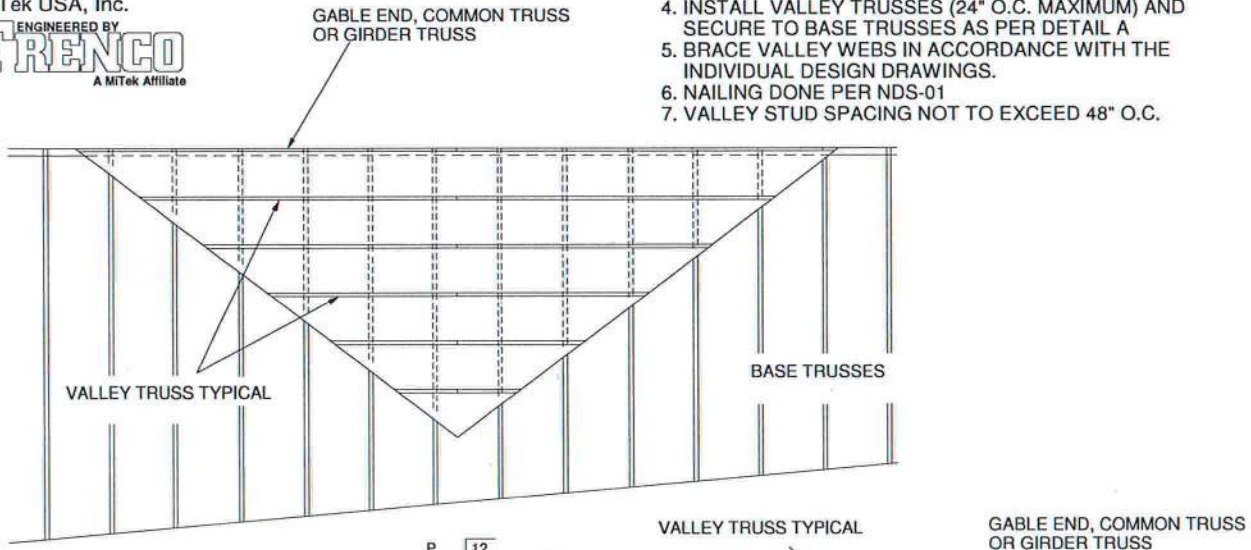
January 19, 2018



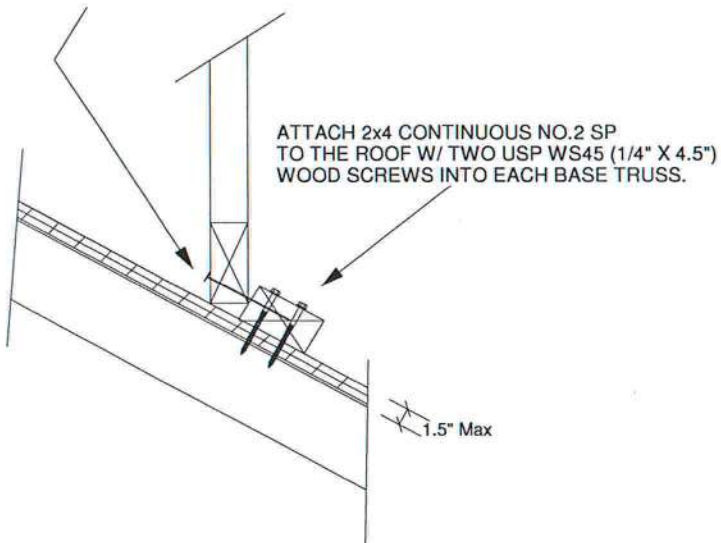
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GENERAL SPECIFICATIONS

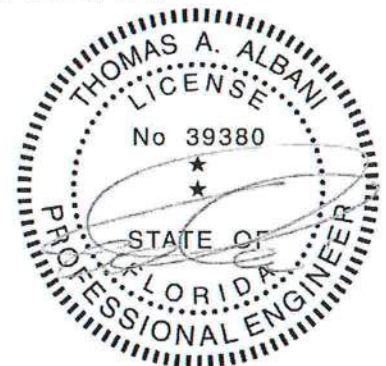
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER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



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



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



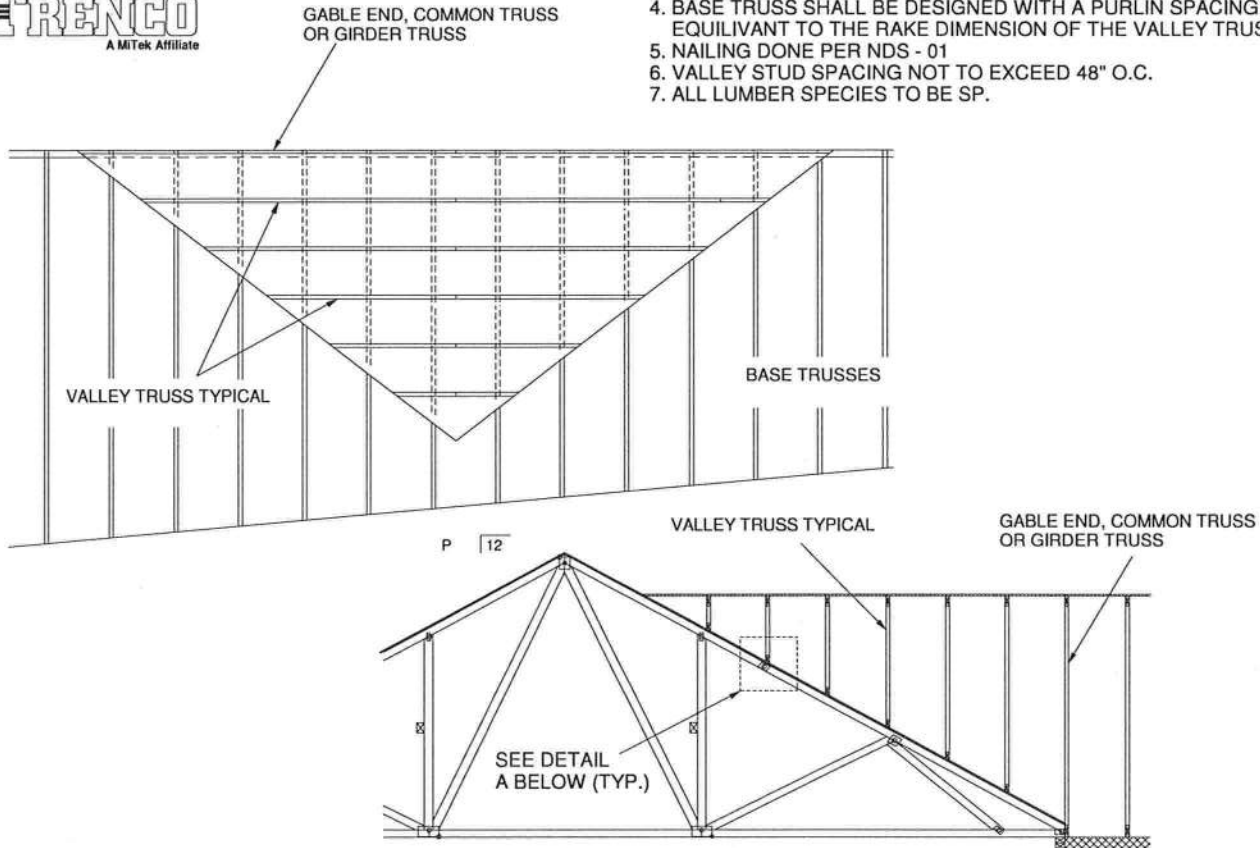
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Date:

February 12, 2018



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 EQUIVALENT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.

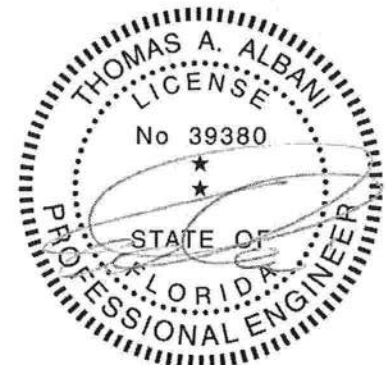


SECURE VALLEY TRUSS
W/ ONE ROW OF 16d
NAILS 6" O.C.

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 7-10 150 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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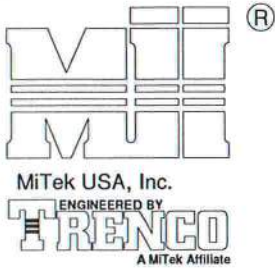
February 12, 2018

AUGUST 1, 2016

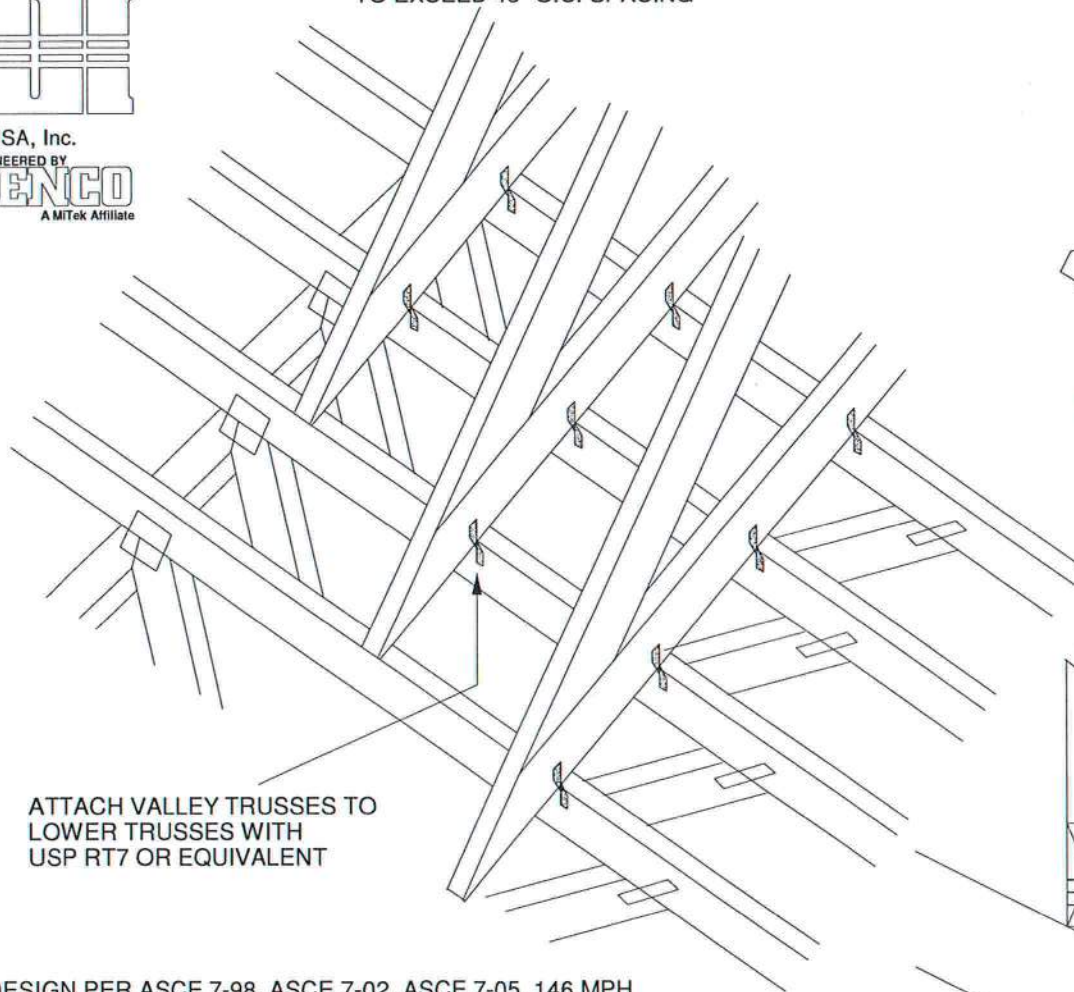
TRUSSED VALLEY SET DETAIL
(HIGH WIND VELOCITY)

MII-VALLEY

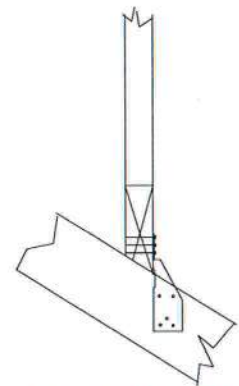
MiTek USA, Inc. Page 1 of 1



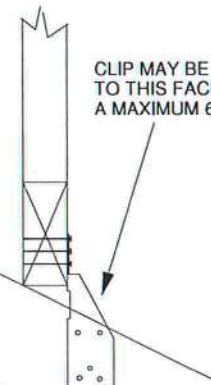
NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACING



ATTACH VALLEY TRUSSES TO
LOWER TRUSSES WITH
USP RT7 OR EQUIVALENT

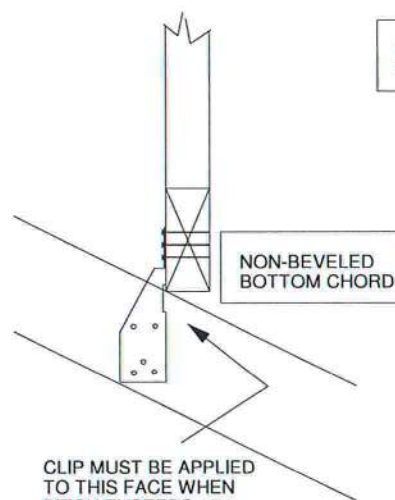


FOR BEVELED BOTTOM
CHORD, CLIP MAY BE
APPLIED TO EITHER FACE



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

NON-BEVELED
BOTTOM CHORD



NON-BEVELED
BOTTOM CHORD

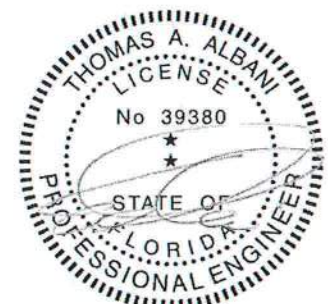
CLIP MUST BE APPLIED
TO THIS FACE WHEN
PITCH EXCEEDS 6/12.
(MAXIMUM 12/12 PITCH)

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

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

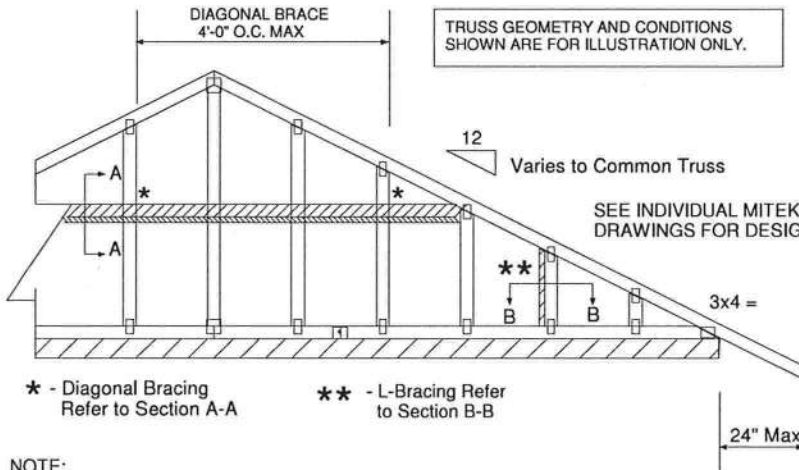
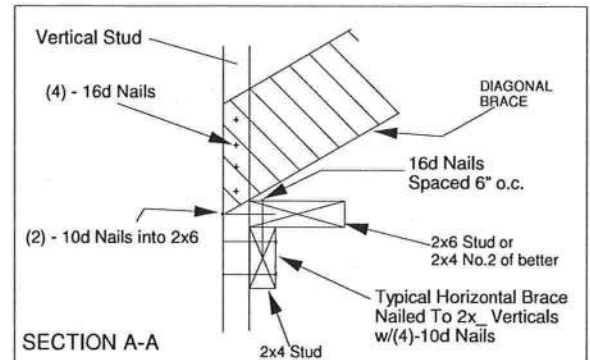
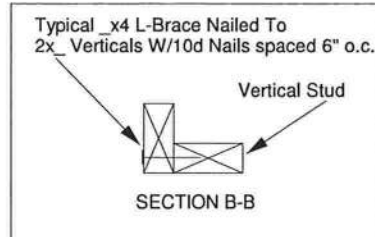
NOTES:

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



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January 19, 2018

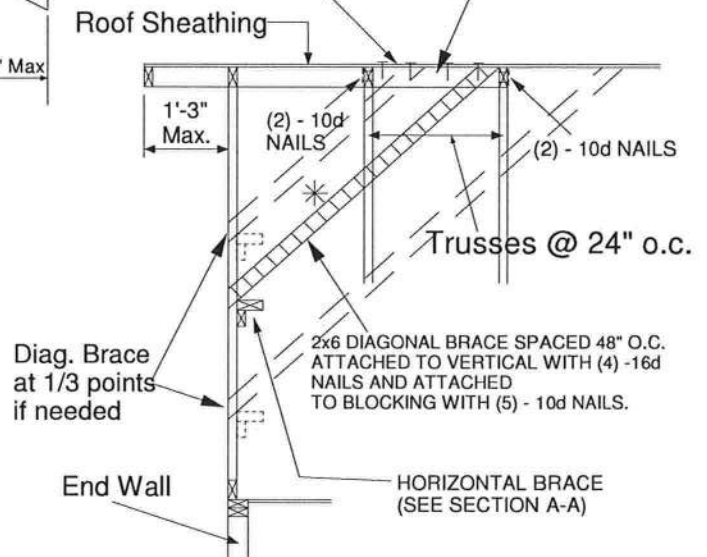


NOTE:

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

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 SP BLOCK

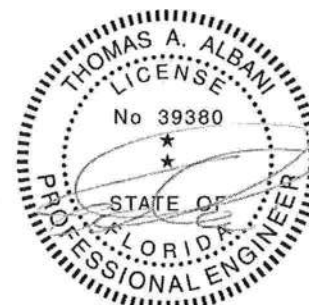


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

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

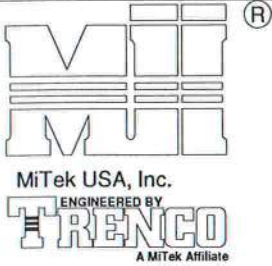
MAXIMUM WIND SPEED = 146 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

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



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TRUSS CRITERIA:

LOADING: 40-10-0-10

DURATION FACTOR: 1.15

SPACING: 24" O.C.

TOP CHORD: 2x4 OR 2x6

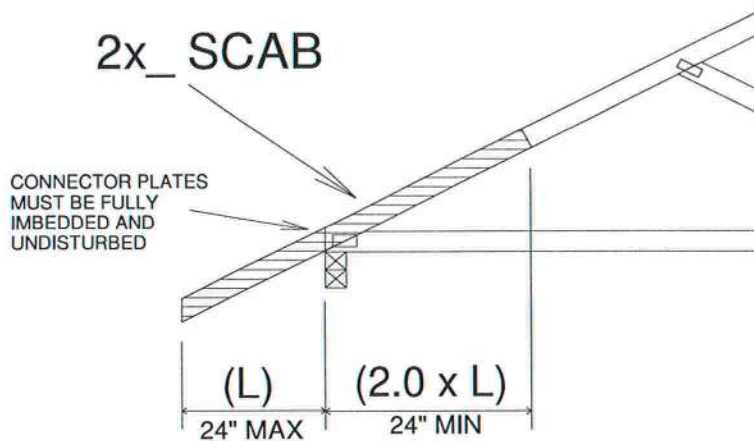
PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

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

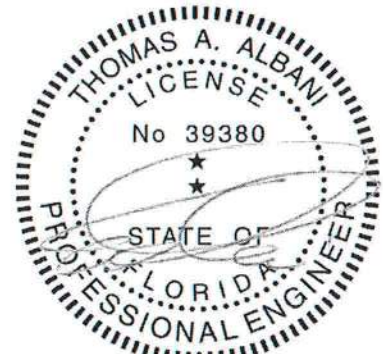


IMPORTANT

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

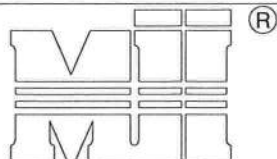
Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN
FOR PLATE SIZES AND LUMBER GRADES



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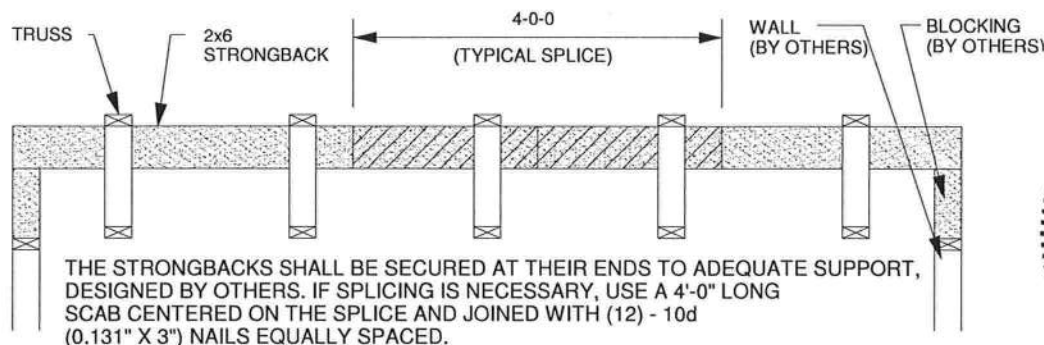
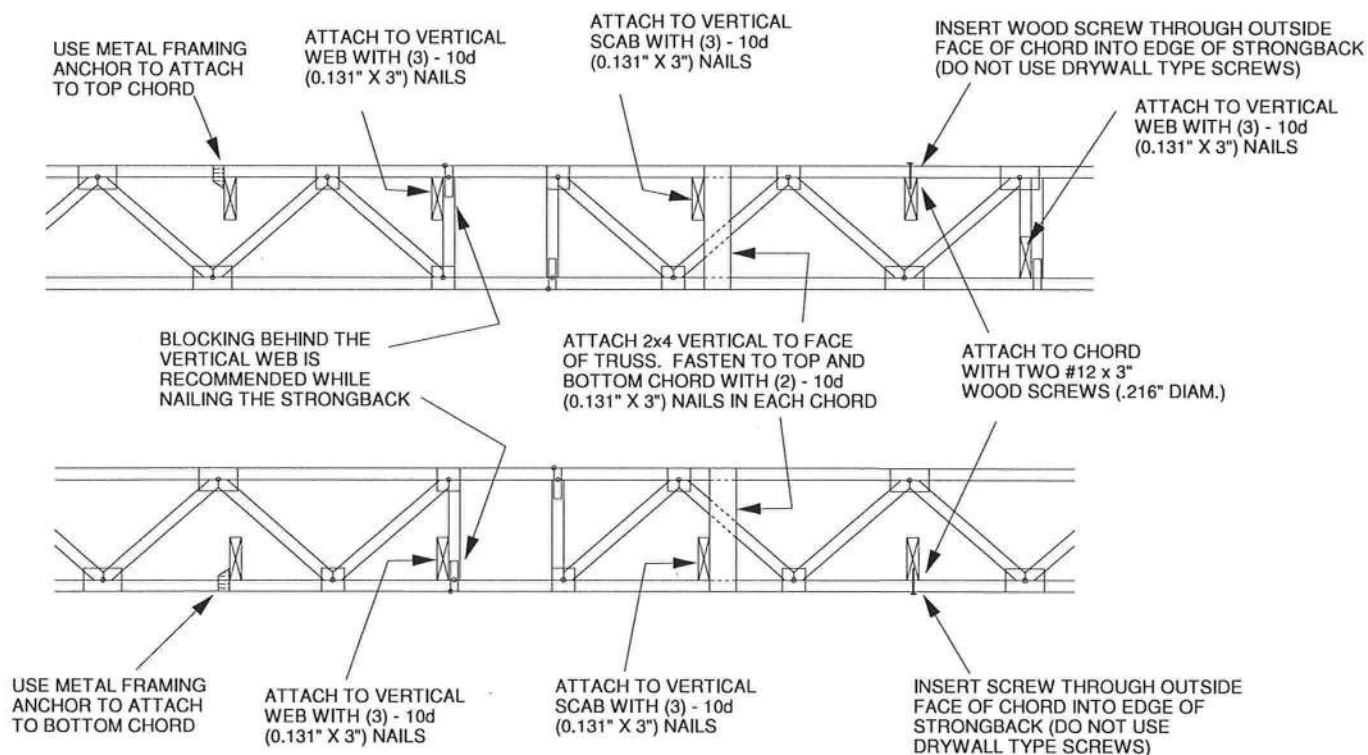


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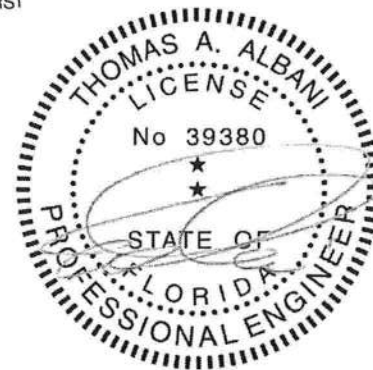
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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

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





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



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BEARING HEIGHT SCHEDULE

	q' 1'-1 1/8"
	10' 1'-1 1/8"

NOTES:

- 1) REFER TO MD-91 (RECOMMENDATIONS FOR BRACING) FOR BRACING REQUIREMENTS. REFER TO ENGINEER DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V05 FOR ALTERNATE DECKING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' O.C. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5/4" x 7' TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) BEARING AREA INTEL. (BOX) TO BE FURNISHED BY BUILDER.



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D and G PROPERTIES

SPEC HSE

DATE: 9-23-20

DATE: 9-23-20

DATE: 9-23-20

DATE: 9-23-20

8/12 PITCH
18" O/H

FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, Versa-Lam #1644-R4 & BCI Joists #1392-R4