



RE: 2802399

SIMQUE - LOT 54 PLL

Site Information:

Customer: Aaron Simque Homes Project Name: 2802399
Lot/Block: 54 Model: 2281

Address: TBD

City: Columbia Cty

Subdivision: The Preserve at Laurel Lake
State: FL

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4135



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

Design Code: FBC2020/TPI2014

Wind Code: ASCE 7-16

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.4

Wind Speed: 130 mph

Floor Load: N/A psf

This package includes 37 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T24043985	CJ01	5/24/2021	21	T24044005	T08A	5/24/2021
2	T24043986	CJ01P	5/24/2021	22	T24044006	T08B	5/24/2021
3	T24043987	CJ03	5/24/2021	23	T24044007	T09	5/24/2021
4	T24043988	CJ03A	5/24/2021	24	T24044008	T10	5/24/2021
5	T24043989	CJ05	5/24/2021	25	T24044009	T11	5/24/2021
6	T24043990	CJ05A	5/24/2021	26	T24044010	T12	5/24/2021
7	T24043991	EJ01	5/24/2021	27	T24044011	T13	5/24/2021
8	T24043992	EJ02	5/24/2021	28	T24044012	T14	5/24/2021
9	T24043993	EJ03	5/24/2021	29	T24044013	T15	5/24/2021
10	T24043994	HJ05	5/24/2021	30	T24044014	T16	5/24/2021
11	T24043995	HJ10	5/24/2021	31	T24044015	T17	5/24/2021
12	T24043996	HJ10A	5/24/2021	32	T24044016	T18	5/24/2021
13	T24043997	T01	5/24/2021	33	T24044017	T19	5/24/2021
14	T24043998	T02	5/24/2021	34	T24044018	T20	5/24/2021
15	T24043999	T03	5/24/2021	35	T24044019	T21	5/24/2021
16	T24044000	T04	5/24/2021	36	T24044020	T22	5/24/2021
17	T24044001	T05	5/24/2021	37	T24044021	T23	5/24/2021
18	T24044002	T06	5/24/2021				
19	T24044003	T07	5/24/2021				
20	T24044004	T08	5/24/2021				

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc under my direct supervision

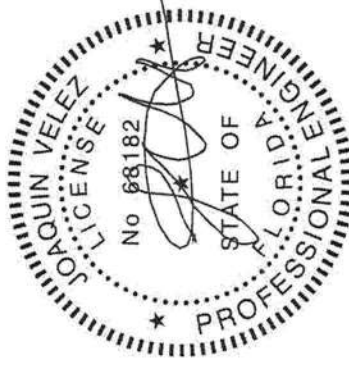
based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

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

Florida COA: 6634

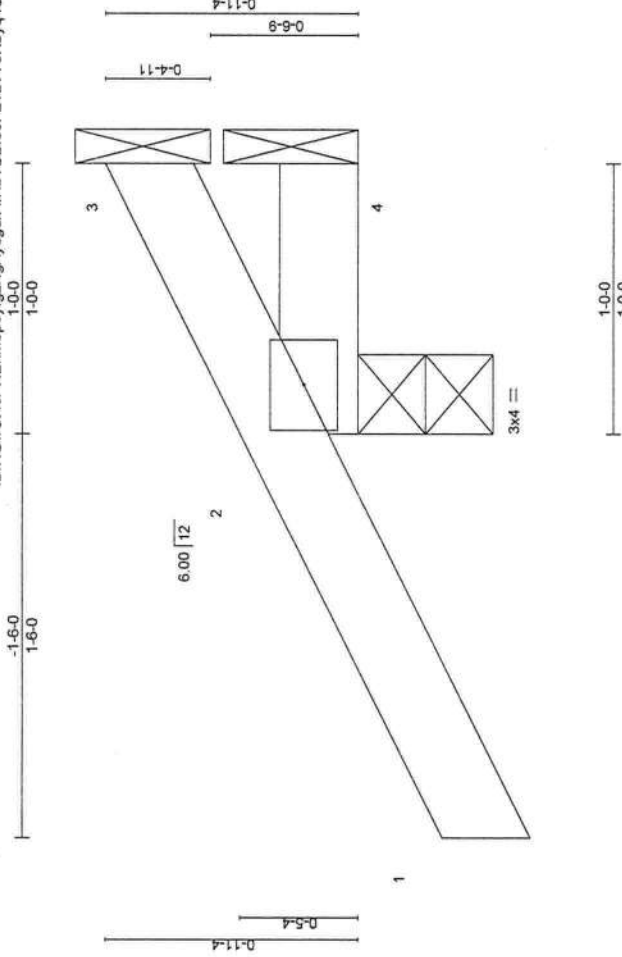
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043985
2802399	CJ01	JACK-OPEN	8	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MITek Industries, Inc. Wed May 19 15:54:39 2021 Page 1
 ID:RGwS14cPREnm5p9fgzNgAycgdx-fRb1G8le0FEvLVY6Rbyq4CXnxCQ1Yy1JmmAV0zEuHk Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL) 0.00	7	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT) 0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					

Weight: 6 lb FT = 20%

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.

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

REACTIONS.
 (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=57(LC 12)
 Max Uplift 3=6(LC 1), 2=106(LC 12), 4=19(LC 1)
 Max Grav 3=9(LC 8), 2=179(LC 1), 4=25(LC 16)

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

NOTES.
 1) Wind: ASCE 7-16; 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(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 5) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=106.



Joaquin Velaz PE No.68182
 MITek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: May 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043986
2802399	CJ01P	JACK-OPEN	4	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,
 ID:RGwSI4cPREnmSp9ygzNgAycgdX-Br7FcCPKNSXV4kg9GBMHlYlWSC7CAXQVK1rZeUhf
 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:40 2021 Page 1
 Job Reference (optional)

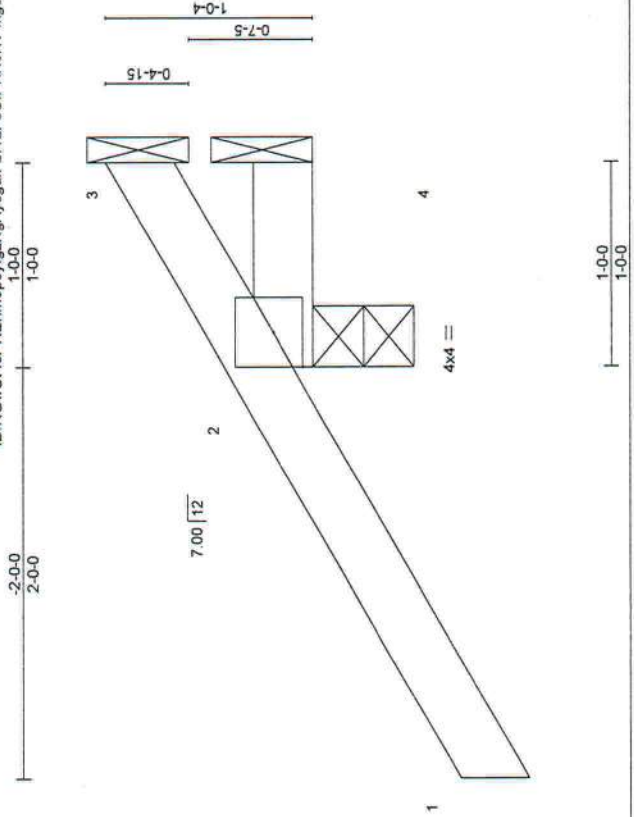


Plate Offsets (X,Y)– [2:Edge,0-1-12]											
LOADING (psf)		SPACING-		CSI.		DEFL.		L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.43	Vert(LL)	in (loc)	l/defl	L/d		
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.00	7	>999	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							
										Weight: 7 lb	FT = 20%

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

REACTIONS.
 (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=78(LC 12)
 Max Uplift 3=27(LC 1), 2=-166(LC 12), 4=-52(LC 19)
 Max Grav 3=25(LC 16), 2=254(LC 1), 4=47(LC 16)

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.

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

NOTES-
 1) Wind: ASCE 7-16; 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(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 5) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=166.

JOAQUIN VELEZ
 LICENSE
 No 68182
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

May 22, 2021

Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043987
2802399	CJ03	JACK-OPEN	6	1		

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

ID:RGwS14cPREnm5p9gzNgAycgdx-f1ZLSyCwAdV8eIXDsdQvWtHrCLSSKm4FHZHZEuHi
8,430 s Apr 20 2021 MITek Industries, Inc. Wed May 19 15:54:41 2021 Page 1
Job Reference (optional)

-1-6-0
1-6-0
3-0-0
3-0-0

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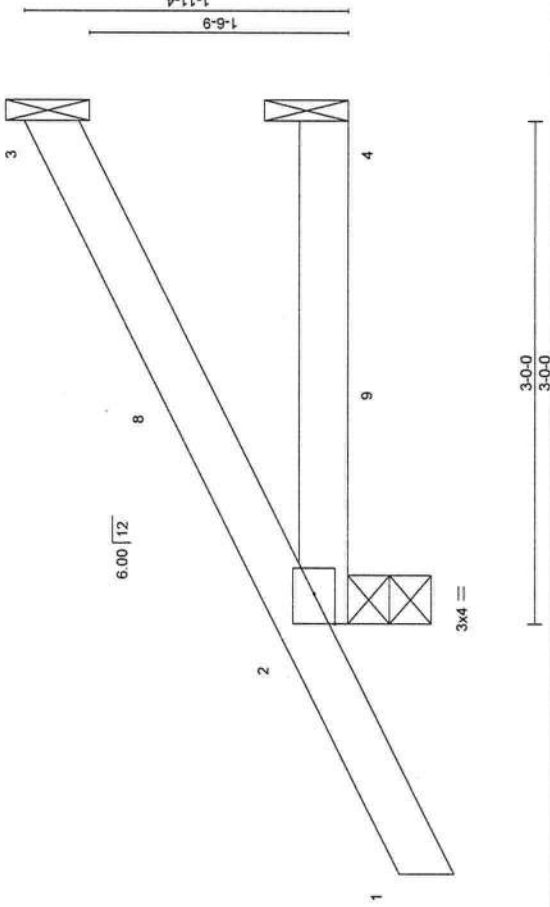


Plate Offsets (X, Y) - [2: Edge 0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL) 0.01	4-7	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.15	Vert(CT) -0.01	4-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					

Weight: 12 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	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=105(LC 12)

Max Uplift 3=58(LC 12), 2=98(LC 12), 4=27(LC 9)

Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



Joaquin Velez PE No.68182

MITek USA, Inc. FL Cert 6634

6904 Parke East Blvd. Tampa FL 33610

Date:

May 22, 2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043988
2802399	CJ03A	JACK-OPEN	2	1		
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwS4cPREnm5p9fgzNgAygdx-7E7kgHDYxxdpmoE7na8gSq218CFAvIT7k_q5jzEuHh 8.430 s Apr 20 2021 MITek Industries, Inc. Wed May 19 15:54:42 2021 Page 1 Job Reference (optional) 2-3-8 2-3-8 3-0-0 0-8-8 -1-6-0 1-6-0						

Scale = 1:13.3

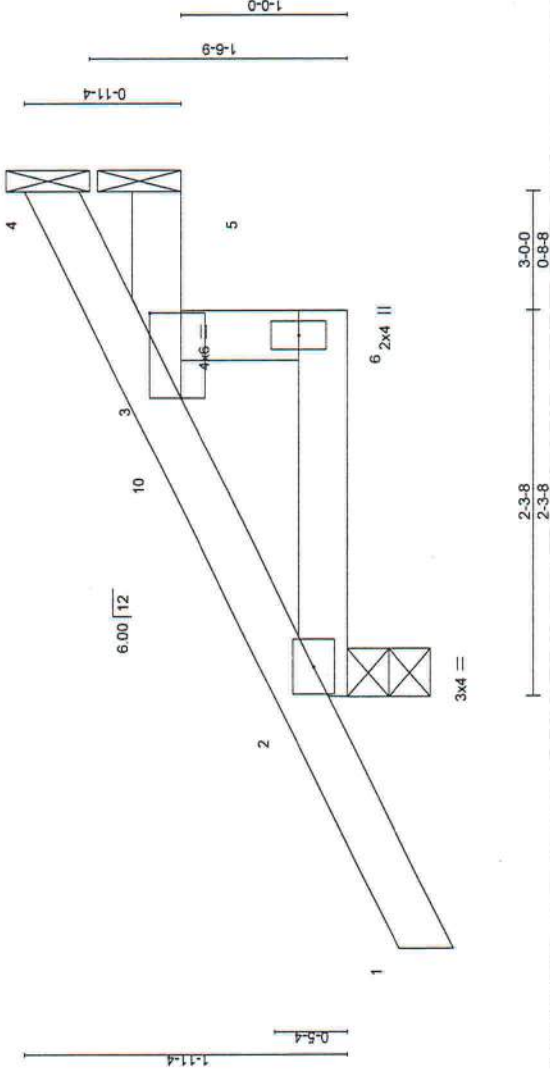


Plate Offsets (X,Y)= [3-0-0,0-0,2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL) 0.01	6 >999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT) -0.01	6 >999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	5 n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MR					

Weight: 14 lb FT = 20%

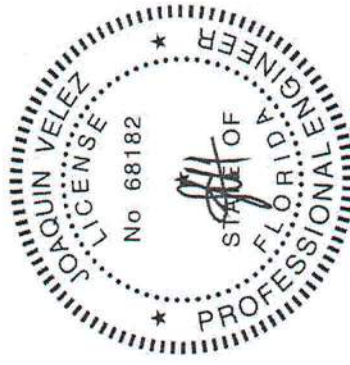
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 3-6; 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.	(size)	4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=105(LC 12)		
Max Uplift 4=-38(LC 12), 2=-97(LC 12), 5=-19(LC 12)		
Max Grav 4=49(LC 1), 2=211(LC 1), 5=45(LC 3)		

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Endl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



Joaquin Velez PE No.68182
 MITek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: May 22, 2021

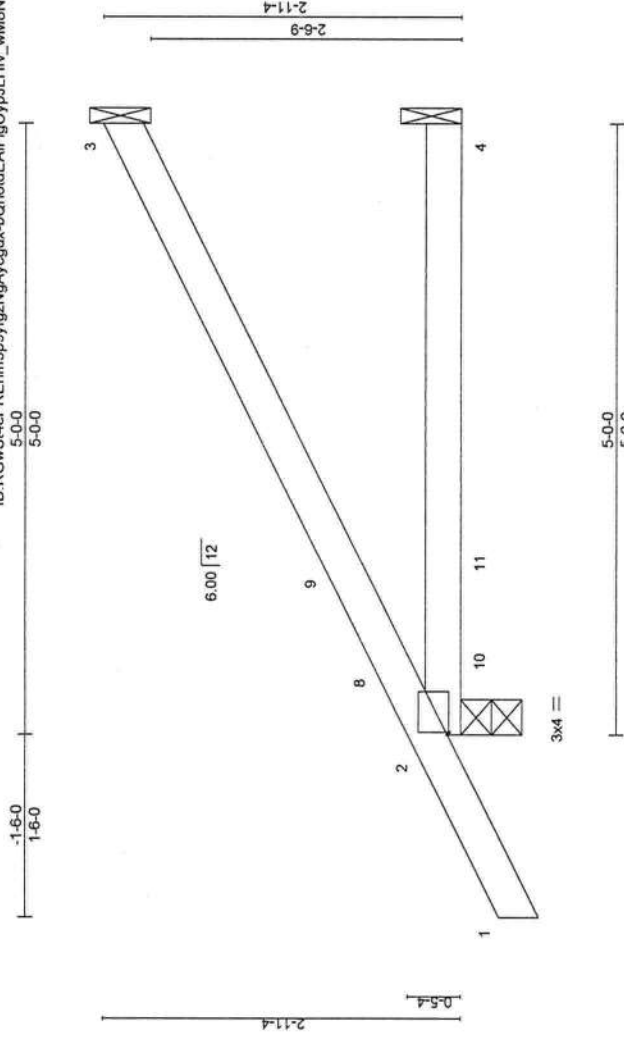
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIU-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL
2802399	CJ05	JACK-OPEN	6	1	T24043989

Job Reference (optional)

8,430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:43 2021 Page 1



Scale = 1:18.2

Plate Offsets (X,Y)–	[2:0-0-4,0-0-3]	
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code FBC2020/TP12014	
	CSI.	TC 0.55
	BC	0.55
	WB	0.00
	Matrix-Mp	
	DEFL.	in (loc)
	Vert(LL)	0.13
	Vert(CT)	0.11
	Horz(CT)	-0.01
	l/defl	n/a
	L/d	240
	PLATES	MT20
	GRIP	244/190
	Weight: 18 lb	FT = 20%

Weight: 18 lb
FT = 20%

LUMBER-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=155(LC 12)
Max Uplift 3=-107(LC 12), 2=-114(LC 12), 4=-48(LC 12)
Max Grav 3=114(LC 1), 2=276(LC 1), 4=89(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4, 2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; End.; Gcpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1.6-0, Interior(1) 1.6-0 to 4-11.4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (1=1b) 3=107, 2=114.



.Ioaquin Velez PE No 68182

COAQUIM V01CZT L NO.00102
MiTek USA, Inc. FL Cert 6634

6904 Parke East Blvd. Tampa FL 33610
Date:

May 22, 2021



6904 Parke East Blvd.
Tampa, FL 36610

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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

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/TPH Quality Criteria, DSR-89 and BCSI Building C*

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043991
2802399	EJ01	Jack-Partial	24	1		

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

ID RGwS4cPREnm5p9fgzNgAvcgdX-XposIJFQEs7NdGzSiit3LSVWM4jHEywhIDVzEuHe

8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:45 2021 Page 1

Job Reference (optional)



Scale = 1/23.5

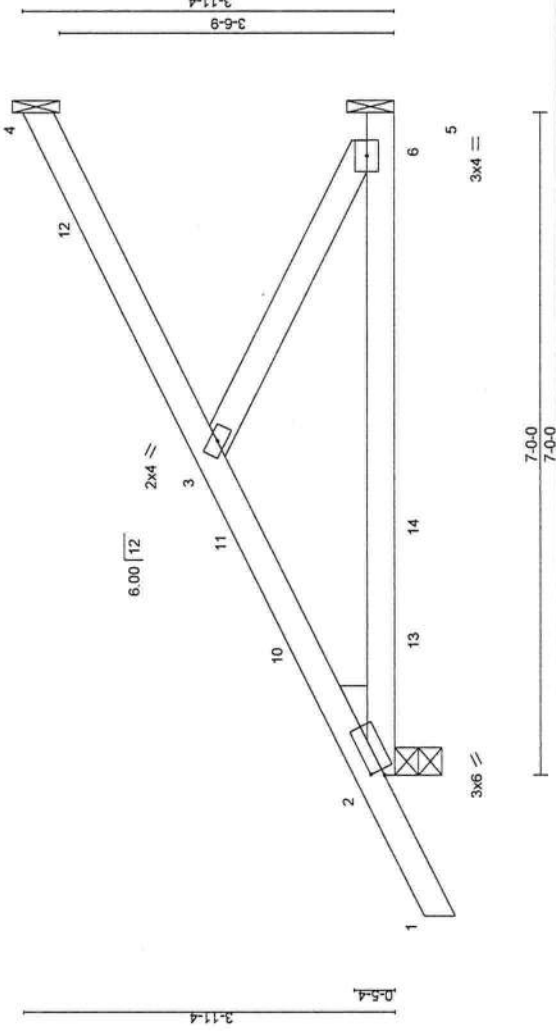


Plate Offsets (X,Y) - [2.0-0.14,0.1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2.0-0	TC 0.51	Vert(LL) 0.25	6-9	>329	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.75	Vert(CT) 0.23	6-9	>364	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.16	Horz(CT) -0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020(TPI)2014	Matrix-MS						

Weight: 31 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=197(LC 12)
Max Uplift 4=64(LC 12), 2=137(LC 12), 5=125(LC 9)
Max Grav 4=74(LC 1), 2=346(LC 1), 5=175(LC 3)

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

TOP CHORD 2-3=-268/243
BOT CHORD 2-6=-471/230
WEBS 3-6=-261/536

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (if=lb) 2=137, 5=125.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 22, 2021

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043992
2802399	EJ02	JACK-PARTIAL	4	1		
Builders FirstSource (Jacksonville, FL) - 32244, Jacksonville, FL - 32244, ID:RGwS4cPREm59y/gzNgAygdK-7?MEWKG2_A7EFQYUoPDccY_dumQe0h3wMy2EUzEuHd						
8 430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:54:46 2021 Page 1						
Job Reference (optional)						
-1-6-0 1-6-0 2-3-8 2-3-8 7-0-0 4-8-8						

Scale = 1:23.5

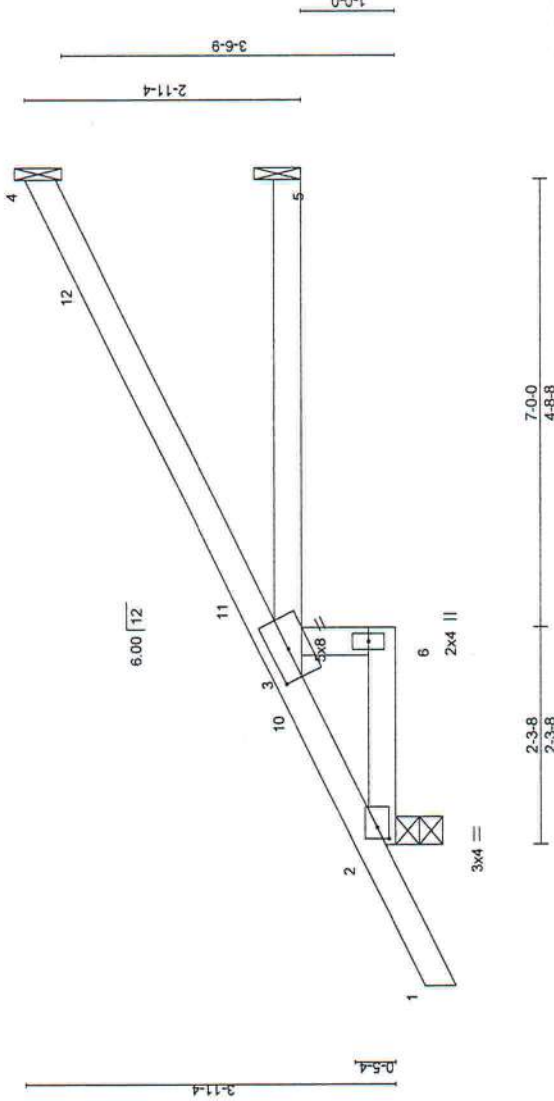


Plate Offsets (X, Y) -	[2.0-1.7 0.1-8], [3.0-4.0 0.2-4]	2-3-8 2-3-8 7-0-0 4-8-8
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LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.66	Vert(LL) 0.23	3-5	>363	MT20	244/190
TCOL 7.0	Lumber DOL 1.25	BC 0.65	Vert(CT) -0.26	3-5	>316		
BCOL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.13	5	n/a		
BCOL 10.0	Code FBC2020/TP12014	Matrix-MR					

LUMBER	2x4 SP No.2	BRACING	Weight: 27 lb	FT = 20%
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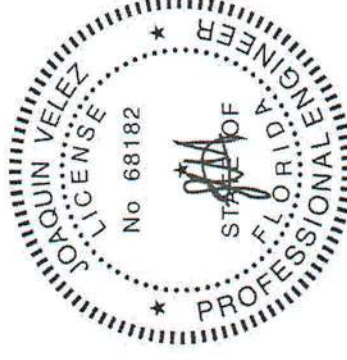
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	3-6: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS	(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=197(LC 12)	
Max Uplift 4=118(LC 12), 2=136(LC 12), 5=27(LC 12)	
Max Grav 4=153(LC 1), 2=348(LC 1), 5=120(LC 3)	

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

NOTES:

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCOL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; Endl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E)-1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (j=lb) 4=118, 2=136.



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Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M17473 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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043993
2802399	EJ03	JACK-OPEN	3	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional)
 ID:RGwSI4cPREnm5p9ygzNgAygdX-TBwdj?HnITF5z64a7kr9mXsw9vDIAxC80lbnxzEuHc 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:47 2021 Page 1

-2-0-0 -2-0-0 3-0-0 3-0-0

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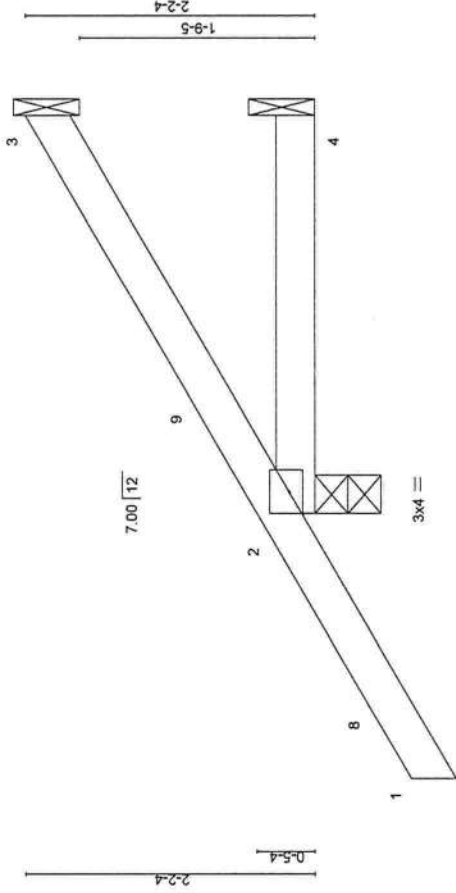


Plate Offsets (X,Y) - [2:Edge, 0:1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/def	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.01	4-7	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.11	Vert(CT)	-0.01	4-7		
BCLL 0.0	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00	3		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					
	Code FBC2020/TP12014						

Weight: 13 lb FT = 20%

LUMBER-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=135(LC 12)
 Max Uplift 3=-57(LC 12), 2=-123(LC 12)
 Max Grav 3=63(LC 19), 2=253(LC 1), 4=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (j)=lb) 2=123.

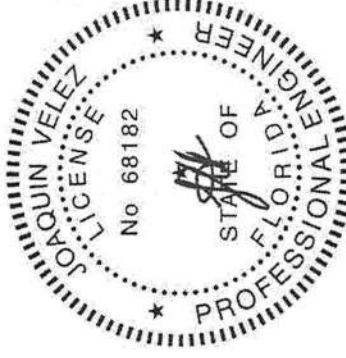
BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-0-0 oc purlins.

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



Joaquin Velez PE No.68182

MiTek USA, Inc. FL Cert 6634

6904 Parke East Blvd. Tampa FL 33610

Date:

May 22, 2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043994
2802399	HJ05	DIAGONAL HIP GIRDER	2	1		
Builders FirstSource (Jacksonville, FL) - Jacksonville, FL - 32244, ID.RGwSI4cPREnm5p9fgcNgAycgdx-yOU?wLJWnNyJhH8qF4hz47zZAUUdBMNfR9JnZEuHb 8 430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:48 2021 Page 1 Job Reference (optional)						
-2-9-15 2-9-15 4-2-3 4-2-3						

Scale = 1:16.4

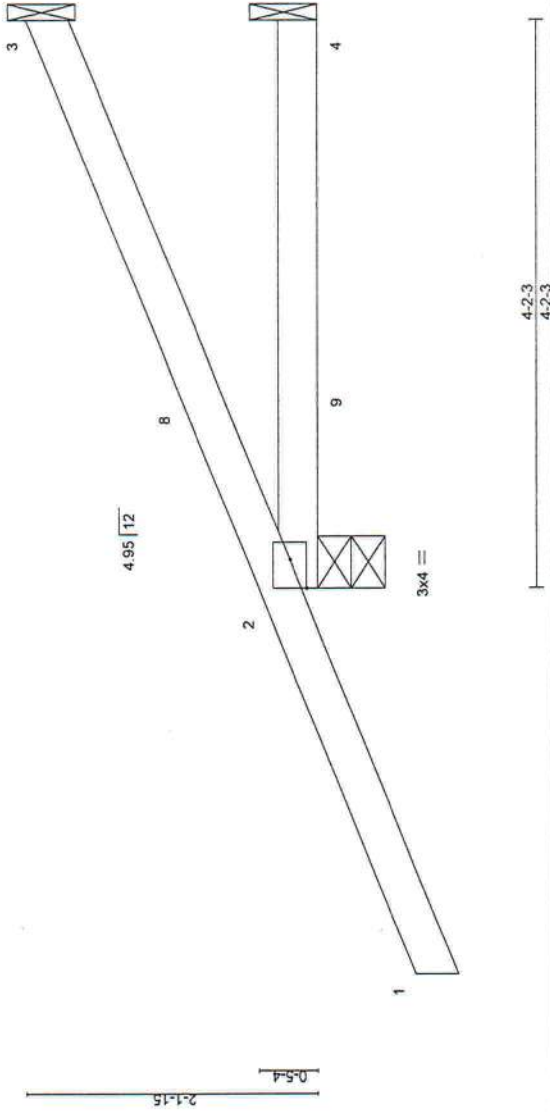


Plate Offsets (X,Y)-	[2-Edge 0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.56	Vert(LL)	-0.06	4-7	>893	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT)	0.05	4-7	>951		
BCLL 0.0	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.01	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP						

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size)	3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=134(LC 8)		
Max Uplift 3=-77(LC 8), 2=-281(LC 4), 4=-46(LC 16)		
Max Grav 3=54(LC 1), 2=282(LC 1), 4=67(LC 30)		

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=20ft, Cat. II; Exp C; Endl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (j=l=6) 2-281.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 103 lb up at 1-6-1, and 85 lb down and 103 lb up at 1-6-1 on top chord, and 72 lb down and 74 lb up at 1-6-1, and 72 lb down and 74 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-3=-54, 4-5=-20

Concentrated Loads (lb)

Vert: 8=51(F=25, B=25) 9=69(F=34, B=34)

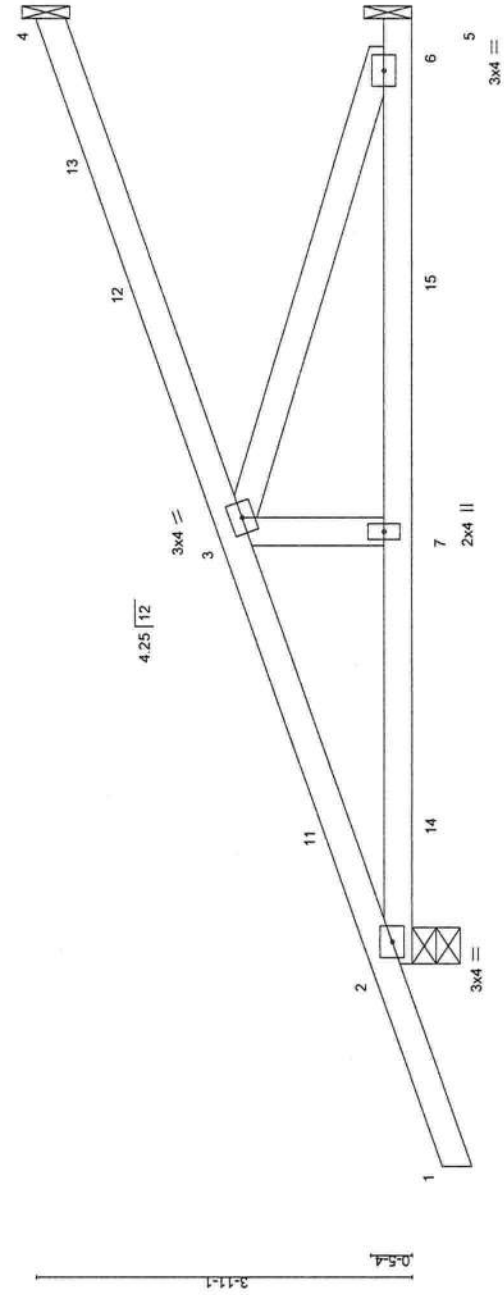


Joaquin Velez PE No.68182
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 Date: May 22, 2021

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043995
2802399	HJ10	DIAGONAL HIP GIRDER	3	1		

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

ID:RGwS4cPREnm5p9fgzNgAvcgdk-umcLL1JZ2Odgj1rFFHYmO9KvNp2YR5IqzwFNGzEuHZ
8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:50 2021 Page 1
Job Reference (optional)
9-10-1 5-4-1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.59	Vert(LL) 0.12	6-7	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.62	Vert(CT) -0.12	6-7	>980		
BCLL 0.0	Rep Stress Incr NO	WB 0.42	Horz(CT) -0.01	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 43 lb FT = 20%

LUMBER-

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

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=215(LC 4)
Max Uplift 4=-126(LC 4), 2=-477(LC 4), 5=-276(LC 4)
Max Grav 4=151(LC 1), 2=526(LC 1), 5=297(LC 1)

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

TOP CHORD 2-3=-765/594
BOT CHORD 2-7=-663/692, 6-7=-663/692
WEBS 3-7=-143/276, 3-6=-732/701

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Endl., GCpl=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=126, 2=477, 5=276.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 77 lb up at 1-6-1, 87 lb down and 77 lb up at 1-6-1, 28 lb down and 57 lb up at 4-4-0, 28 lb down and 57 lb up at 4-4-0, and 52 lb down and 115 lb up at 7-1-15, and 52 lb down and 115 lb up at 7-1-15 on top chord, and 57 lb down and 46 lb up at 1-6-1, 57 lb down and 46 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 41 lb down and 63 lb up at 7-1-15, and 41 lb down and 63 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-4(F=-2, B=-2) 12=-74(F=-37, B=-37) 15=-57(F=-29, B=-29)



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This design is based only upon parameters shown, and is for an individual building component, not a building system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. For building design, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. For building design, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. For building design, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design.

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



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	124043997
2802399	T01	HIP GIRDER	1			

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

8,430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:54:58 2021 Page 1
 ID:RGwSt4cPREnm5p9fzAgYcgdk-J5n1mPaSeXnGSCjxRQ54UectbwqgDshgozEuHR
 25-5-12 27-7-8 31-4-1 35-4-0 40-0-8 42-4-0 43-10-9
 6-1-13 2-1-12 3-8-8 3-11-15 4-8-8 2-3-8 1-6-0

Scale = 1/75.1

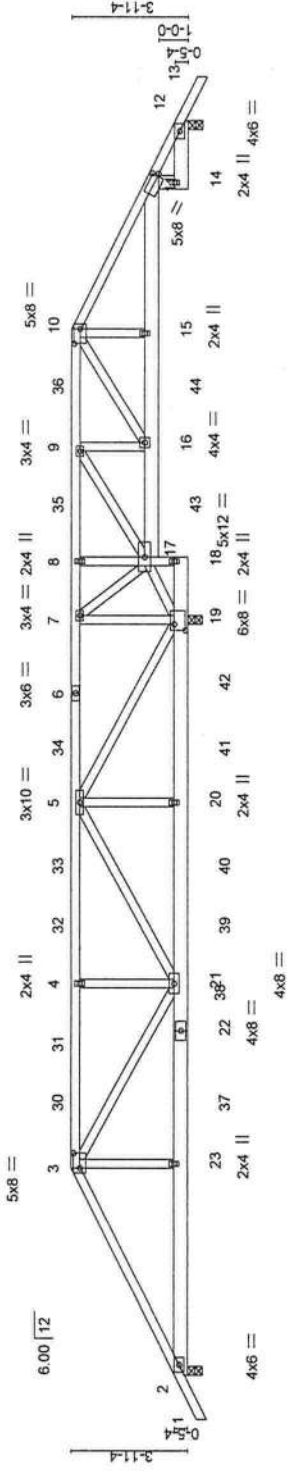


Plate Offsets (X,Y)-- [3.0-6.0,0-2.8], [10.0-6.0,0-2.8], [11.0-0.14,0-2.4], [19.0-2.8,0-4.8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.80	Vert(LL)	0.13 21-23	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.42	Vert(CT)	-0.16 11-15	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.88	Horz(CT)	0.09 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS						Weight: 503 lb FT = 20%

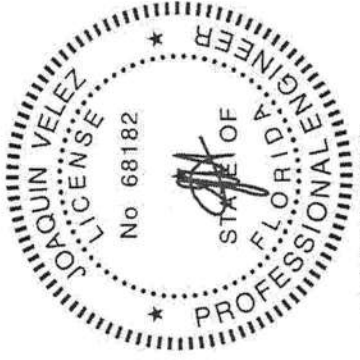
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD
8-18: 2x4 SP No.3	
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 19=0-3-8
 Max Horz 2=92(LC 27)
 Max Uplift 2=-117(LC 5), 12=-279(LC 9), 19=-3286(LC 4)
 Max Grav 2=1480(LC 19), 12=514(LC 20), 19=4727(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2639/2284, 3-4=-2408/2359, 4-5=-2408/2359, 5-7=-1671/3040, 7-8=-1652/2912, 8-9=-1629/2879, 9-10=-418/758, 10-11=-654/333, 11-12=-426/246
 BOT CHORD 2-23=-2005/2289, 21-23=-2026/2312, 20-21=-1208/781, 19-20=-1208/781,
 18-19=-321/185, 16-17=-758/609, 15-16=-189/594, 11-15=-180/548, 11-14=-141/369
 WEBS 3-23=-495/697, 3-21=-411/153, 4-21=-709/581, 5-21=-1359/1980, 5-20=-265/539,
 5-19=-412/3140, 7-19=-818/565, 17-19=-3040/1894, 7-17=-92/255, 9-17=-2546/1472,
 9-16=-473/972, 10-16=-1591/919, 10-15=-357/742

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, 2x4 - 1 row 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 7-16; Vult=130mph (3-second gust) Vased=101mph, TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MMFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 2=1172, 12=279, 19=3286.



Joaquin Velez PE No.68182
 Mitek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: May 22, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043997
2802399	T01	HIP GIRDER	1	2		

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

ID:RGwSt4cPREnm5p9fgzNgAycgdx-7Vf9E5QCx9mOIP1OHeyfclpM2w9ZOT7vclCECEzEuHQ
8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:54:59 2021 Page 2
Job Reference (optional)

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 138 lb up at 7-0-0, 110 lb down and 138 lb up at 9-0-12, 110 lb down and 138 lb up at 11-0-12, 110 lb down and 138 lb up at 13-0-12, 110 lb down and 138 lb up at 15-0-12, 110 lb down and 138 lb up at 17-0-12, 110 lb down and 138 lb up at 19-0-12, 110 lb down and 129 lb up at 21-0-12, 110 lb down and 129 lb up at 21-3-4, 110 lb down and 138 lb up at 23-3-4, 110 lb down and 138 lb up at 25-3-4, 110 lb down and 138 lb up at 27-3-4, 99 lb down and 118 lb up at 29-3-4, 99 lb down and 118 lb up at 31-3-4, and 99 lb down and 118 lb up at 33-3-4, and 117 lb down and 118 lb up at 35-4-0 on top chord, and 332 lb down and 399 lb up at 7-0-0, 86 lb down and 88 lb up at 9-0-12, 86 lb down and 88 lb up at 11-0-12, 86 lb down and 88 lb up at 13-0-12, 86 lb down and 88 lb up at 15-0-12, 86 lb down and 88 lb up at 17-0-12, 86 lb down and 88 lb up at 19-0-12, 86 lb down and 88 lb up at 21-0-12, 86 lb down and 88 lb up at 21-3-4, 86 lb down and 88 lb up at 23-3-4, 86 lb down and 88 lb up at 25-3-4, 86 lb down and 88 lb up at 27-5-12, 80 lb down and 47 lb up at 29-3-4, 80 lb down and 47 lb up at 31-3-4, and 80 lb down and 47 lb up at 33-3-4, and 399 lb down and 294 lb up at 35-3-4 on bottom chord.

The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-10=-54, 10-11=-54, 11-13=-54, 18-24=-20, 11-17=-20, 14-27=-20

Concentrated Loads (lb)

Vert: 3=-110(F) 6=-110(F) 10=-99(F) 18=-63(F) 21=-63(F) 23=-332(F) 21=-63(F) 4=-110(F) 5=-110(F) 20=-63(F) 7=-110(F) 19=-63(F) 9=-99(F) 16=-76(F) 15=-399(F) 30=-110(F) 31=-110(F) 32=-110(F) 33=-110(F) 34=-221(F) 35=-99(F) 36=-99(F) 37=-63(F) 38=-63(F) 39=-63(F) 40=-63(F) 41=-127(F) 42=-63(F) 43=-76(F) 44=-76(F)

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 guidelines regarding design, fabrication, storage, delivery, erection and bracing of trusses and truss systems, please refer to the Mitek® Quality Criteria, USB-99 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	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24043998
2802399	T02	HIP	1	1		

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

ID:RGwS4McPREnm5p9fzNgAycgdx-3umvfnSTSn06YIBnO3_7jIBGpX1HJGMB5LG7zEuHO
8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:01 2021 Page 1
25-5-12 31-3-8 33-4-0 36-8-4 40-0-8 42-4-0 43-10-9
5-5-0 5-9-12 2-0-8 3-4-4 3-4-4 2-3-8 1-6-0

Scale = 1:7.5, 1

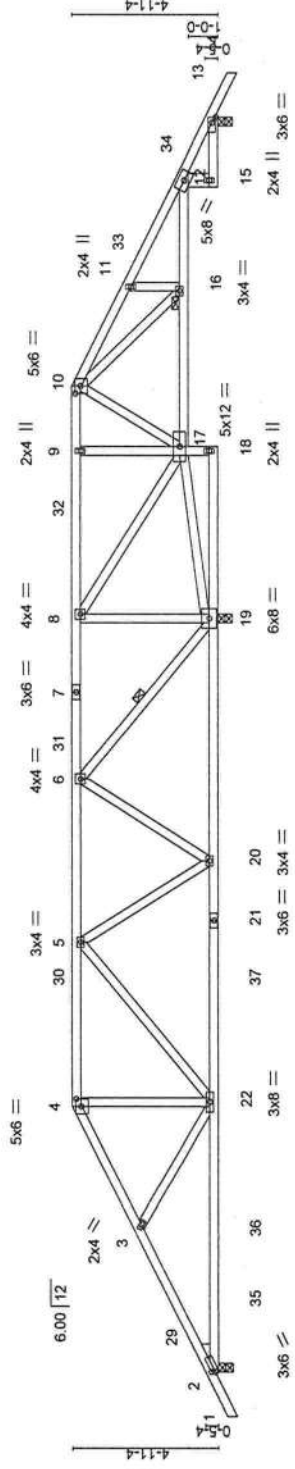


Plate Offsets (X,Y) - [2.0-0.14.0.1-8], [4.0-3.0.0.2-0], [10.0-3.0.0.2-0]

LOADING	SPACING	CSI	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	Vert(LL) 0.37	22-25	>818	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT) 0.33	22-25	>925	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.07	13	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS						Weight: 233 lb FT = 20%

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

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 19=0-3-8
Max Horiz 2=113(LC 16)
Max Uplift 2=568(LC 9), 13=194(LC 13), 19=1166(LC 8)
Max Grav 2=829(LC 23), 13=304(LC 24), 19=2264(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1233/1853, 3-4=976/1697, 4-5=829/1568, 5-6=396/1211, 6-8=596/1482, 8-9=306/594, 9-10=319/608
BOT CHORD 2-22=1579/1060, 20-22=1161/669, 19-20=587/406, 16-17=323/384, 12-16=25/262
WEBS 3-22=282/317, 4-22=625/204, 5-22=223/347, 5-20=640/401, 6-20=1049/823, 6-19=1498/1601, 8-19=875/477, 17-19=1410/712, 8-17=429/1030, 10-17=554/295, 10-16=315/572, 11-16=265/236

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E)-1.6 to 1.6-0, Interior(1) 1.6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 33-4-0, Exterior(2R) 33-4-0 to 37-6-15, Interior(1) 37-6-15 to 43-10-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 (if=lb) 2=568, 13=194, 19=1166.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 22, 2021

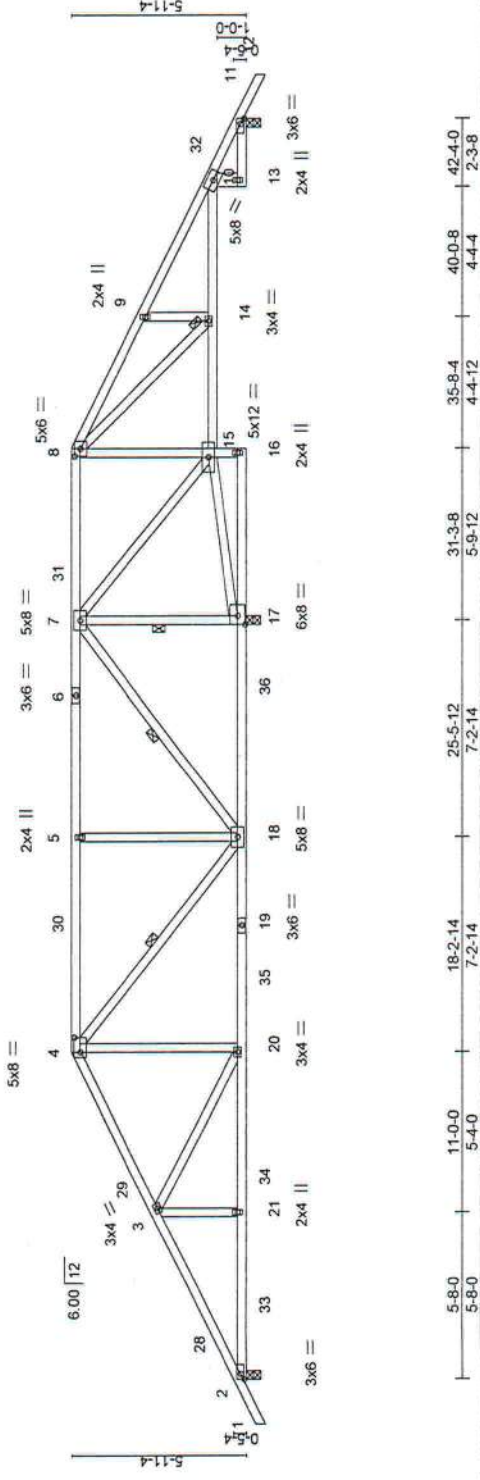
WARNING- Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 design, fabrication, storage, delivery, erection and lifting of truss systems, see the MiTek website at www.mitek.com or call 1-800-854-6463. **Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Cran Highway, Suite 203 Waldorf, MD 20687

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT S4 PLL	T24043999
2802399	T03	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8-430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:02 2021 Page 1
 ID:RGwSi4cPREnm5p9fzNgAycgdx-X4KHs7T5D48zAlmzyvmVGwfoHCvrmf8ObrqpZzEuHN
 1-6-0, 5-8-0, 5-8-0, 11-0-0, 5-4-0, 18-2-14, 7-2-14, 25-5-12, 31-4-0, 35-8-4, 40-0-8, 42-4-0, 43-10-0, 1-6-0, 2-3-8, 1-6-0, 4-4-4, 5-10-4, 4-4-4, 4-4-4, 2-3-8, 1-6-0

Scale = 1:75.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL) 0.19	18-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.62	Vert(CT) -0.19	10-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.07	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 239 lb FT = 20%

LUMBER.	2x4 SP No.2	BRACING-	Structural wood sheathing directly applied or 5-0-7 oc purlins.
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Rigid ceiling directly applied or 4-3-13 oc bracing.
BOT CHORD	8-16: 2x4 SP No.3, 10-13: 2x6 SP No.2	WEBS	1 Row at midpt
WEBS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 14

REACTIONS.	(size) 2-0-3-8, 11-0-3-8, 17-0-3-8
	Max Horz 2=136(LC 17)
	Max Uplift 2=571(LC 9), 11=174(LC 13), 17=1078(LC 8)
	Max Grav 2=864(LC 25), 11=276(LC 24), 17=2518(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=1323/2005, 3-4=872/1479, 4-5=357/1016, 5-7=357/1016, 7-8=176/603, 8-9=49/282
BOT CHORD	2-21=1683/1139, 20-21=1683/1139, 18-20=1111/741, 17-18=1374/667, 8-15=740/364, 14-15=599/431
WEBS	3-21=360/214, 3-20=475/672, 4-20=755/481, 4-18=739/487, 5-18=428/326, 7-18=1728/1723, 7-17=1990/1460, 15-17=1357/610, 7-15=308/996, 8-14=390/690, 9-14=308/286

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Endl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E)-1-6-0 to 1-6-0, Interior(1) 1-6-0 to 1-10-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 31-2-6, Exterior(2R) 31-2-6 to 35-8-4, Interior(1) 35-8-4 to 43-10-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=571, 11=174, 17=1078.



Joaquin Velez PE No.68182
 Mitek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

May 22, 2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044001
2802399	T05	HIP	1	1		
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional)						
8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:06 2021 Page 1						
ID:RGwStKcPReNm5p9fgzNgAvcgdk-QraoVMBHJePeU3kBCalQmp1CcCYig1?WTobyKzEuHJ						
1-6.0	7-11.0	15.0-0	21-2.0	6-2.0	7-1.0	42.4-0
1-6.0	7-11.0	7-1.0	6-2.0	6-2.0	7-1.0	7-11.0
						43-10.0
						1-6.0
Scale = 1/75.1						

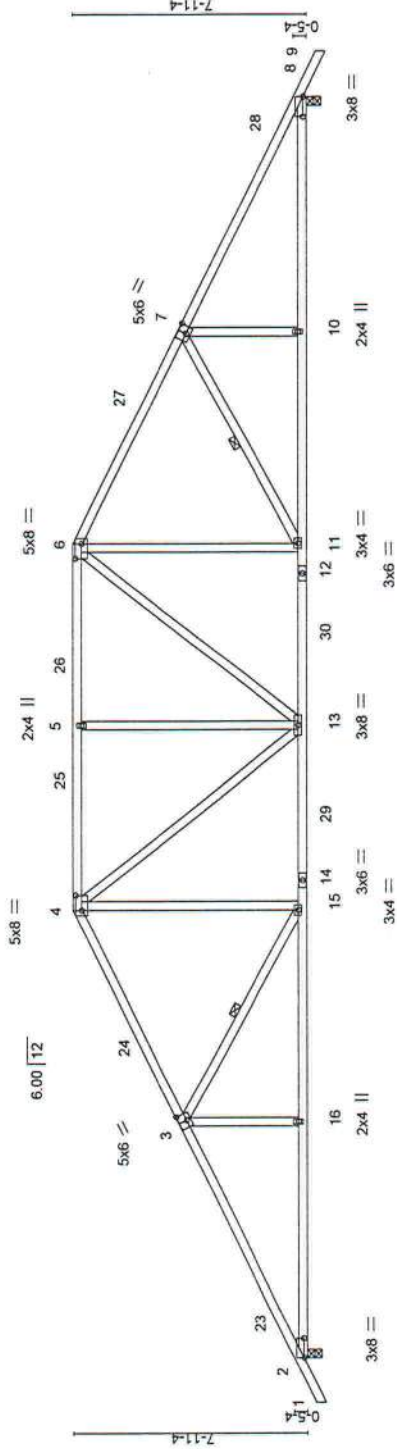


Plate Offsets (X,Y)-	7-11.0	15.0-0	7-1.0	21-2.0	6-2.0	27-4.0	34.5-0	42.4-0
	[20-8-0-0-0-1], [3-0-3-0-0-3-4], [4-0-6-0-0-2-8], [6-0-6-0-0-2-8], [7-0-3-0-0-3-4], [8-0-8-0-0-0-1]							

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	Vert(LL) -0.26	11-13	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.89	Vert(CT) -0.43	11-13	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.42	Horz(CT) 0.17	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					
	Code FBC2020/TP12014						
							Weight: 232 lb FT = 20%

LUMBER:	BRACING:
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-8-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-15, 7-11

REACTIONS.
(size) 2=0-3-8, 8=0-3-8
Max Horz 2=178(LC 12)
Max Uplift 2=672(LC 12), 8=672(LC 13)
Max Grav 2=1783(LC 2), 8=1783(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3195/1116, 3-4=-2563/918, 4-5=-2439/948, 5-6=-2439/948, 6-7=-2563/918, 7-8=-3195/1117
BOT CHORD 2-16=-1034/2794, 15-16=-1034/2794, 13-15=-662/2232, 11-13=-548/2232,
WEBS 10-11=-856/2794, 8-10=-857/2794
3-16=0/304, 3-15=-673/431, 4-15=-170/599, 4-13=-234/450, 5-13=-373/291,
6-13=-234/450, 6-11=-170/599, 7-11=-673/431, 7-10=0/304

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 27-4-0, Exterior(2R) 27-4-0 to 31-6-15, Interior(1) 31-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 2=672, 8=672.



Joaquin Velez PE No.68182
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 22, 2021



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	TZ4044002
2802399	T06	Hip	1	1		

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:08 2021 Page 1

ID:RGWSwAcPREnm59yfgzNgAvcdx-MEHZ7AXspwu7uoD7J1cmVBvQ9dtTAU9IznHCDDzEuHH
25-4-0 29-0-0 3-8-0 4-2-0 6-4-0 7-0-0 42-4-0 43-10-9

Scale = 1/76.3

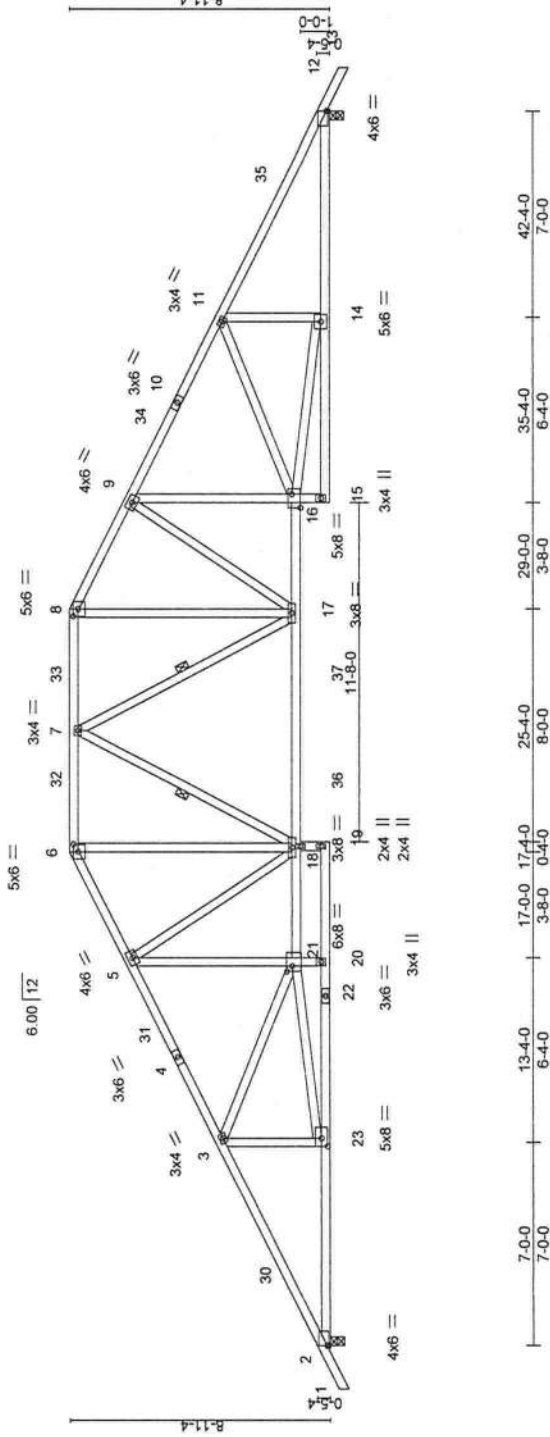


Plate Offsets (X,Y)- [2-0-0,0-0-11], [6-0-3-0,0-2-0], [8-0-3-0,0-2-0], [12-0-0,0-0-11], [16-0-5-12,Edge], [21-0-2-4,0-2-4], [23-0-3-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL) -0.52	19	>971	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.92	Vert(CT) -1.02	19	>499		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.21	12	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					

Weight: 277 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-15 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
5-20-9-15: 2x4 SP No.3, 16-21: 2x4 SP M 31	10-0-0 oc bracing: 20-21
2x4 SP No.3 *Except*	1 Row at midpt
21-23,14-16: 2x4 SP No.2	7-18, 7-17

REACTIONS.
(size) 2=0-3-8, 12=0-3-8
Max Horz 2=199(LC 12)
Max Uplift 2=652(LC 12), 12=659(LC 13)
Max Grav 2=1859(LC 2), 12=1818(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
2-3=-3380/1086, 3-5=-3391/1068, 5-6=-2809/981, 6-7=-2490/912, 7-8=-2435/925,
8-9=-2748/995, 9-11=-3227/1101, 11-12=-3305/1100
2-23=-1038/2963, 20-21=0/314, 5-21=-193/756, 18-21=-854/2982, 17-18=-602/2514,
16-17=-750/2836, 9-16=-197/577, 12-14=-852/2895
3-23=-328/192, 21-23=-965/2928, 5-18=-902/422, 6-18=-323/1090, 7-18=-263/217,
7-17=-330/196, 8-17=-329/1064, 9-17=-741/434, 14-16=-827/2698, 11-14=-285/178

- NOTES:
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 17-0-0, Exterior(2R) 17-0-0 to 22-11-13, Interior(1) 22-11-13 to 25-4-0, Exterior(2R) 25-4-0 to 31-3-13, Interior(1) 31-3-13 to 43-10-0 zone,C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 (if=lb) 2=652, 12=659.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 22,2021

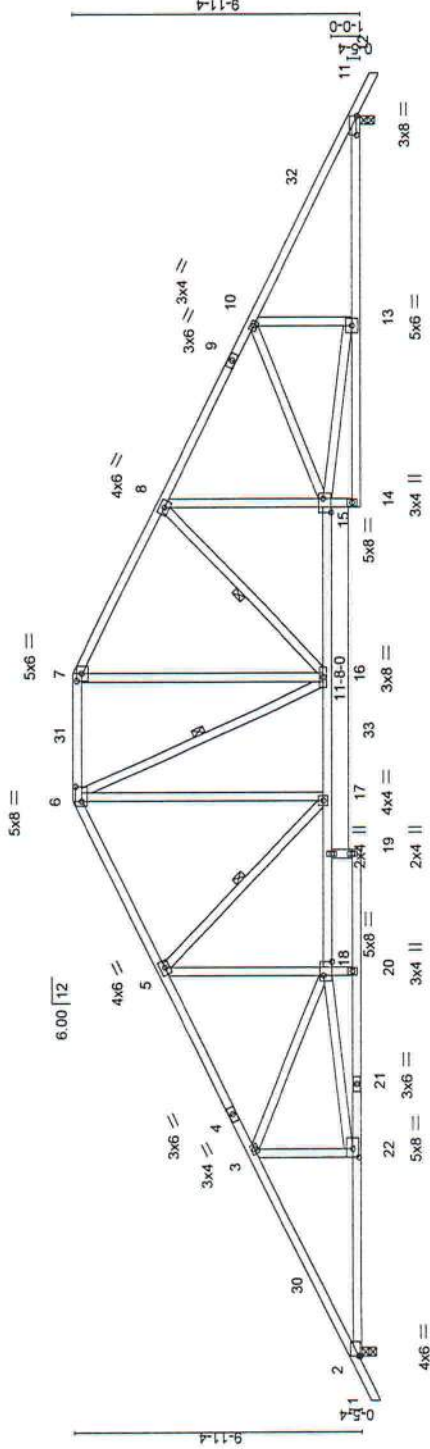
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the erection, storage, delivery, erection and bracing of truss and truss systems, see the MiTek website at www.mitekusa.com.
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044003
2802399	107	Hip	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional) 8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:09 2021 Page 1
 ID:RGwSI4cPREnm5p9fgzNgAygdX-qQfXKWYUaE0zVyoJsl772PRBotCvyszSCR1mYfzEUHG
 1-6-0 7-0-0 7-0-0 13-4-0 6-4-0 19-0-0 5-8-0 23-4-0 4-4-0 29-0-0 5-8-0 35-4-0 6-4-0 42-4-0 7-0-0 43-10-0 1-6-0

Scale = 1:76.3



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.49	Vert(LL) -0.53	19 >950	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.97	Vert(CT) -1.04	19 >487	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.23	11 n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					

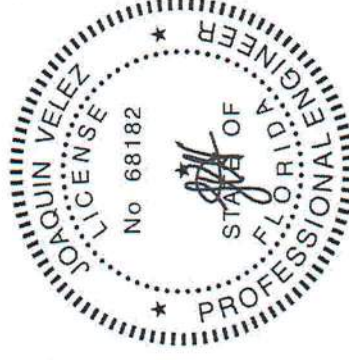
Weight: 273 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD
WEBS 5-20.8-14: 2x4 SP No.3	WEBS
2x4 SP No.3 *Except*	
18-22,13-15: 2x4 SP No.2	

REACTIONS.	TOP CHORD	BOT CHORD	WEBS
(size) 2-0-3-8, 11-0-3-8			
Max Horz 2-221(LC 16)			
Max Uplift 2-647(LC 12), 11-654(LC 13)			
Max Grav 2-1848(LC 2), 11-1806(LC 2)			

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3355/1074, 3-5=-3381/1060, 5-6=-2528/905, 6-7=-2190/870, 7-8=-2499/911, 8-10=-3213/1081, 10-11=-3277/1088
BOT CHORD	2-22=-1048/2940, 18-20=0/313, 5-18=-171/851, 17-18=-881/2985, 16-17=-531/2217, 15-16=-743/2835, 8-15=-182/670, 11-13=-840/2870
WEBS	3-22=-334/192, 18-22=-968/2987, 5-17=-1087/491, 6-17=-310/956, 7-16=-261/885, 8-16=-915/501, 13-15=-807/2751, 10-13=-291/171

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 19-0-0, Exterior(2E) 19-0-0 to 23-4-0, Exterior(2R) 23-4-0 to 29-1-12, Interior(1) 29-1-12 to 43-10-0 zone,C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=b) 2-647, 11-654.

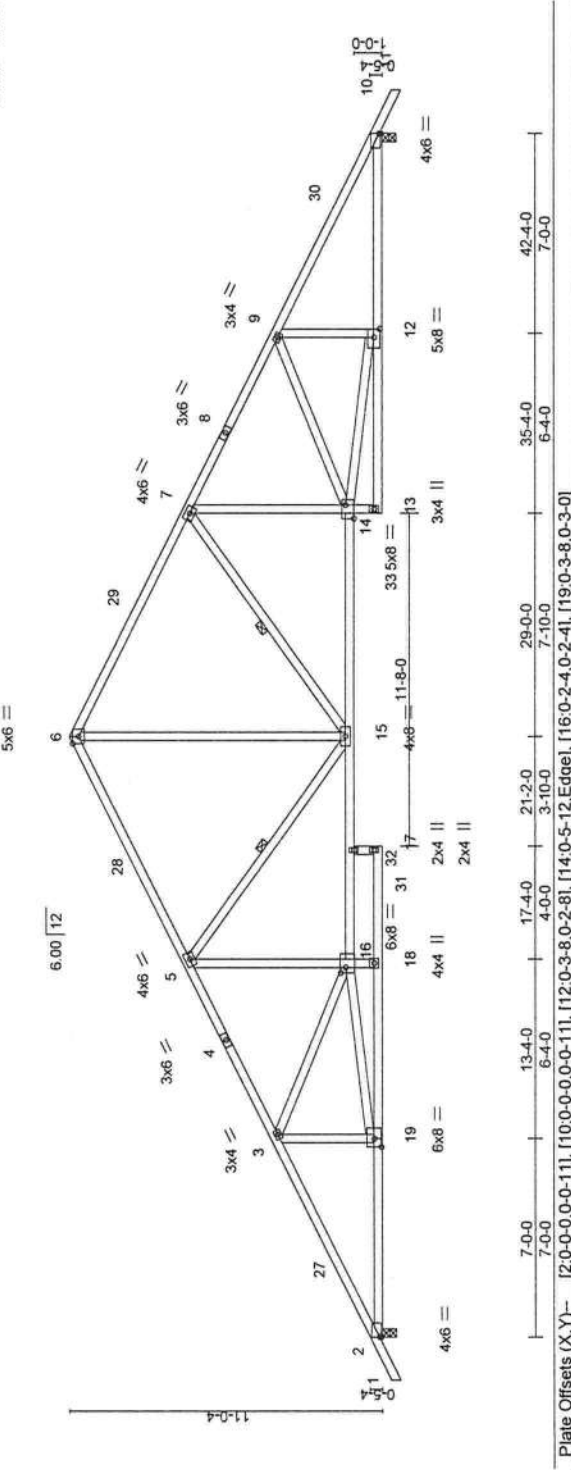


Joaquin Velez PE No.68182
 Mitek USA, Inc. FL Cert 6834
 6904 Parke East Blvd. Tampa FL 33610
 Date: May 22,2021

Job	Truss	Truss Type	Qty	Ply	SIMIQUE - LOT 54 PLL	TZ4044004
2802399	T08	Roof Special	4	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional) 8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:11 2021 Page 1
 ID:RGWSM4cPREnm5p9ygzNgAycgx-mpNhiCakGhGyl_9AT7QXworUInwkgKwWdYzEuHE
 1-6-0 7-0-0 13-4-0 21-2-0 29-0-0 35-4-0 42-4-0 43-10-0
 1-6-0 7-0-0 6-4-0 7-10-0 7-10-0 7-0-0 7-0-0 1-6-0

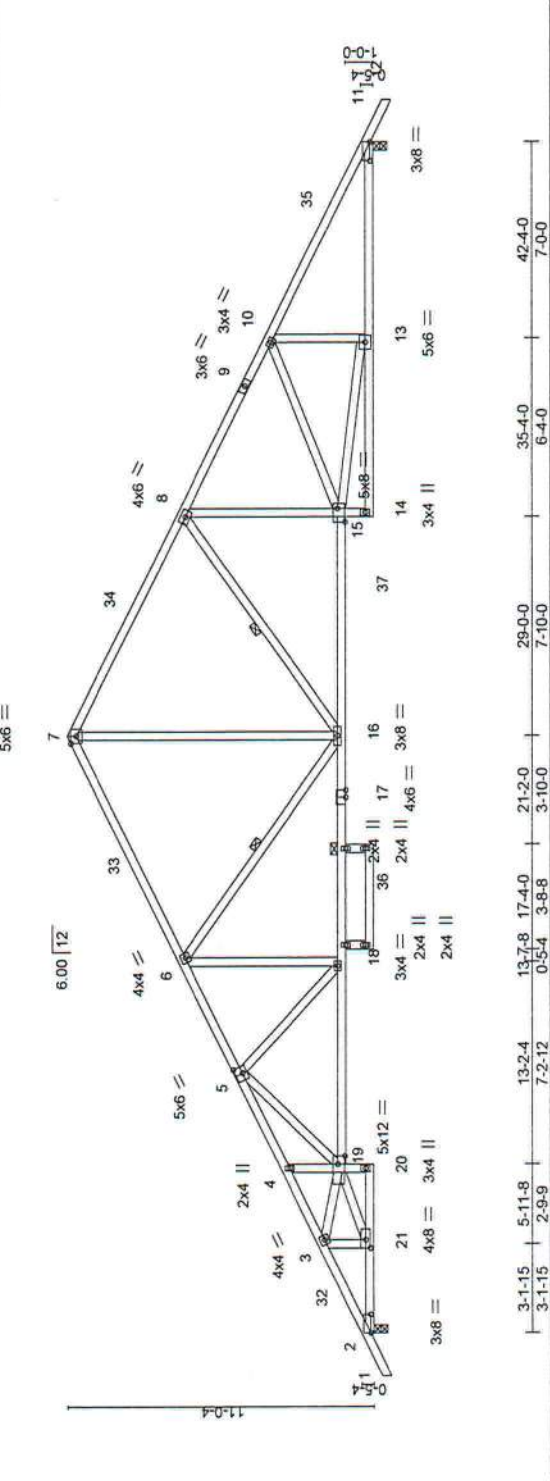
Scale = 1/78.2



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044005
2802399	T08A	Roof Special	4	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional)
 ID:RGwSk4cPREnm5p9/gzNgAvccdk-F7x3zYal0pYMPXuythf137nEes6HuuOF09_zEuHD
 8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:12 2021 Page 1

1-6.0 3-1-15 5-11-8 9-3-8 13-2-4 21-2-0 29-0-0 35-4-0 42-4-0 43-10-0
 1-6.0 3-1-15 2-9-9 3-4-0 3-10-12 7-11-12 7-10-0 6-4-0 7-0-0 1-6-0
 Scale = 1:79.5

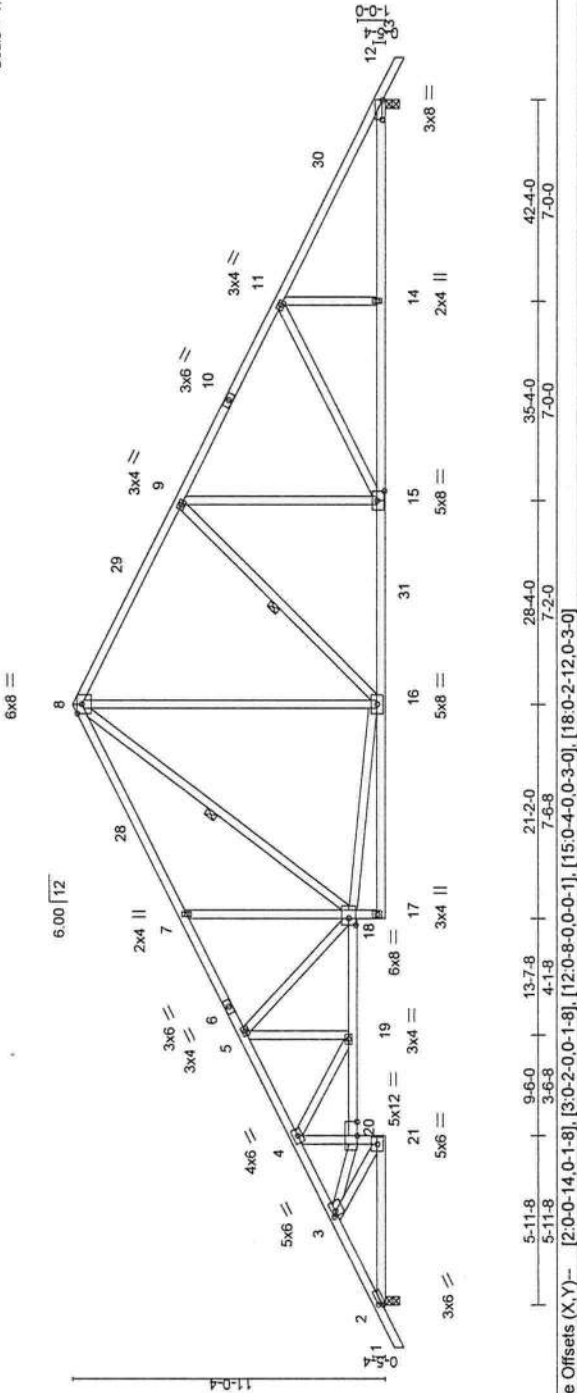


Job	Truss	Truss Type	Qty	Ply	SIMIQUE - LOT 54 PLL	TZ4044006
2802399	T08B	Roof Special	2	1		

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

8.430 s Apr 20 2021 MITek Industries, Inc. Wed May 19 15:55:14 2021 Page 1
ID:RGwS14cPREnmSpYgZNgYcgdx-BO3QeCcOmJGchHfjAIS9RP2xNaCRBMkxEtzEuHB
28-4-0 35-4-0 42-4-0 43-10-0
7-2-0 7-0-0 7-0-0 1-6-0

Scale = 1/78.2



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	
2802399	T09	ROOF SPECIAL GIRDER	1	1		T24044007

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,
8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:16 2021 Page 2
ID:RGwS4cPREnm5p9gzNgAycgx-7mAaowdwOv_r1qfjleqEKRsKM23Tp0DeltzEuH9
Job Reference (optional)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 5-6=-54, 6-9=-54, 9-12=-54, 22-25=-20
Concentrated Loads (lb)
Vert: 9=-185(B) 7=-110(B) 16=-63(B) 13=-332(B) 28=-110(B) 29=-110(B) 30=-110(B) 31=-110(B) 32=-110(B) 33=-63(B) 34=-63(B) 35=-63(B) 36=-63(B) 37=-63(B)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044008
2802399	T10	ROOF SPECIAL	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional)
 ID:RGwS4cPREnm5p9fzNgAvcdx-39ILDbr7S794K, 2u8c6vU0mfHAW7FmHKKmZuH7
 8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:18 2021 Page 1
 1-6.0 7-6.0 7-6.0 14-8.2 19-6.9 26-5.5 33-4.0 37-6.0 42-4.0 43-10.0
 1-6.0 7-6.0 7-6.0 14-8.2 19-6.9 26-5.5 33-4.0 37-6.0 42-4.0 43-10.0

Scale = 1/76.3

6.00 | 12 5x6 = 7.00 | 12

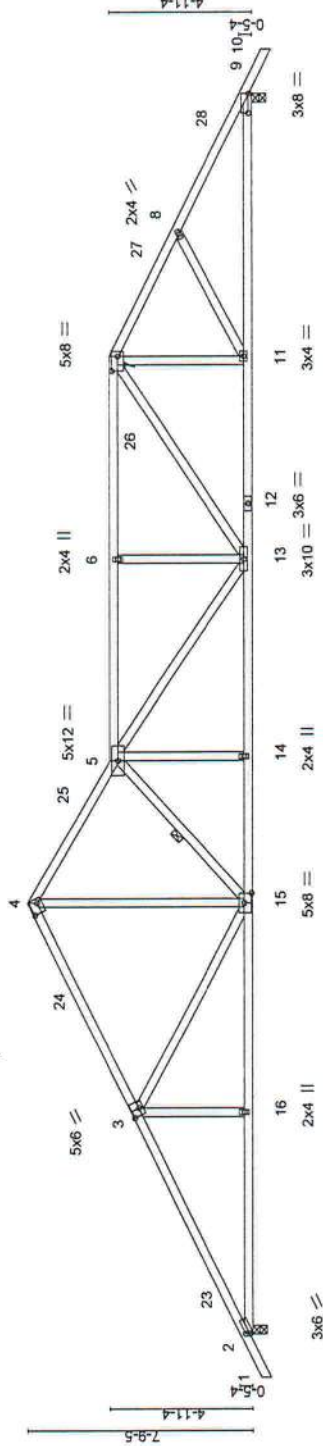


Plate Offsets (X,Y)-	7-6.0	14-8.2	19-6.9	26-5.5	33-4.0	37-6.0	42-4.0	43-10.0
	[2.0-0.14,0.1-8]	[3.0-3.0,0.0-3.4]	[4.0-4.2,0.0-3.0]	[7.0-6.0,0.0-2.8]	[9.0-8.0,0.0-1.1]	[15.0-4.0,0.0-3.0]		

LOADING (psf)	SPACING	CSL	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.98	Vert(LL) 0.37	13-14	>999	MT20	244/190
TCDL 0.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.68	13-14	>752		
BCLL 7.0	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.19	9	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS					

Weight: 224 lb FT = 20%

LUMBER

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

REACTIONS.
 (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=179(LC 11)
 Max Uplift 2=592(LC 12), 9=731(LC 13)
 Max Grav 2=1647(LC 1), 9=1647(LC 1)

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

TOP CHORD 2-3=-2938/1067, 3-4=-2361/961, 4-5=-2402/993, 5-6=-3405/1509, 6-7=-3405/1509,
 7-8=-2743/1197, 8-9=-2969/1308
 BOT CHORD 2-16=-889/2551, 15-16=-890/2548, 14-15=-1221/3557, 13-14=-1219/3560,
 11-13=-863/2417, 9-11=-1059/2598
 WEBS 3-16=0295, 3-15=-626/426, 4-15=-737/1876, 5-15=-2115/999, 5-13=-272/149,
 6-13=-425/337, 7-13=-469/1192, 7-11=-55/362

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16: 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(2E) 1-6-0 to 1-6-0, Interior(1) 1-6-0 to 14-8-2, Exterior(2R) 14-8-2 to 17-8-2, Interior(1) 17-8-2 to 33-4-0, Exterior(2R) 33-4-0 to 36-4-0, Interior(1) 36-4-0 to 43-10-0 zone C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=i=b) 2=592, 9=731.



Joaquin Velez PE No.68182
 Mitek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

May 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PILL	T24044010
2802399	T12	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8 430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:21 2021 Page 1
 ID:RGwSt4cPREnm5pYgzNgaYegdx-Uk_Tsdh?lwXHkojdZGLpxxxxdlJajQvDzIXo_zZEuH4
 13-0-0 6-9-1 23-10-8 35-6-15 29-4-0 18-5-8 5-5-0 5-5-8 6-2-15 6-9-1 1-6-0
 1-6-0 1-6-0 6-9-1 6-2-15 5-5-8 6-2-15 6-9-1 1-6-0

Scale = 1:75.1

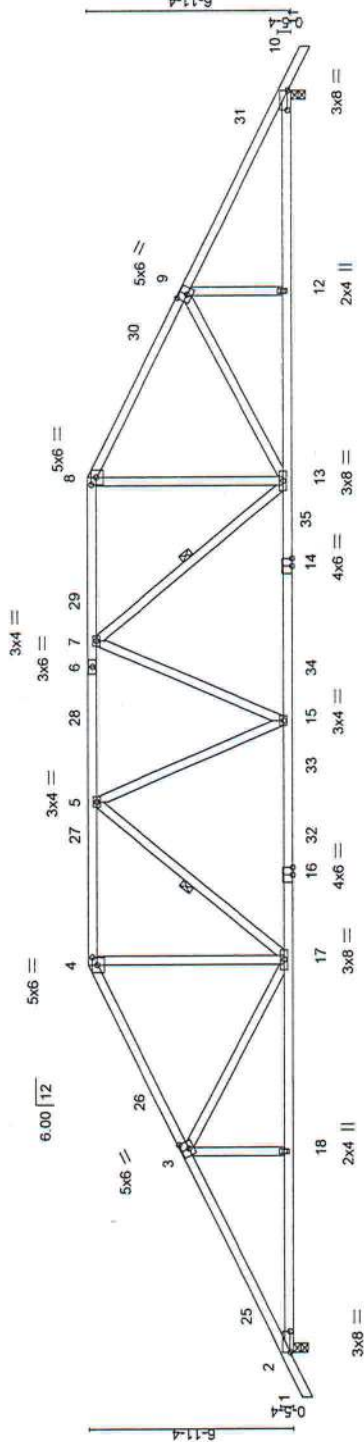


Plate Offsets (X,Y)--	6-9-1	13-0-0	21-2-0	29-4-0	35-6-15	42-4-0
[2-0-8-0-0-1], [3-0-3-0-0-2], [4-0-3-0-0-2-0], [8-0-3-0-0-3-0], [9-0-3-0-0-3-0], [10-0-8-0-0-0-1]	6-9-1	6-2-15	8-2-0	8-2-0	6-2-15	6-9-1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.31 15-17	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.54 15-17	>941		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.17 10	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS					

Weight: 230 lb FT = 20%

Structural wood sheathing directly applied or 2-10-15 oc purlins.
Rigid ceiling directly applied or 2-2-0 oc bracing.
1 Row at midpt 5-17, 7-13

REACTIONS.

	(size)	2=0-3-8, 10=0-3-8
Max Horz	2=156(LC 13)	
Max Uplift	2=675(LC 12), 10=675(LC 13)	
Max Grav	2=1786(LC 2), 10=1786(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3--3241/1143, 3-4--2730/979, 4-5--2402/938, 5-7--2814/1012, 7-8--2402/938,
8-9--2730/979, 9-10--3241/1144
BOT CHORD 2-16--1050/2840, 17-18--1051/2837, 15-17--812/2741, 13-15--780/2741,
12-13--895/2837, 10-12--894/2840
WEBS 3-17--542/363, 4-17--243/956, 5-17--627/322, 5-15--100/290, 7-15--99/290,
7-13--627/322, 8-13--242/956, 9-13--543/363

NOTES:

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; End., GCP(=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 29-4-0, Exterior(2R) 29-4-0 to 33-6-15, Interior(1) 33-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=675, 10=675.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED LITEX REFERENCE PAGE MII-7473 ver. 5/19/2020 BEFORE USE. Design valid for use only with MITEX 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 or property damage. General guidance regarding erection, installation, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI Quality Criteria, DSB-39 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Chain Bridge Rd., Suite 203 Waldorf, MD 20601.

Job	Truss	Truss Type	Qty	Ply	SIMIQUE - LOT 54 PLL	T24044011
2802399	T13	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGWS14cPRERm5pYfgzNgAycgdx-ywYr3zieWE7Zy/p7zs238UmAgHsv7MBYgyWPzEuH3
 8.430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:22 2021 Page 1
 Job Reference (optional)

Scale = 1/7.5.1

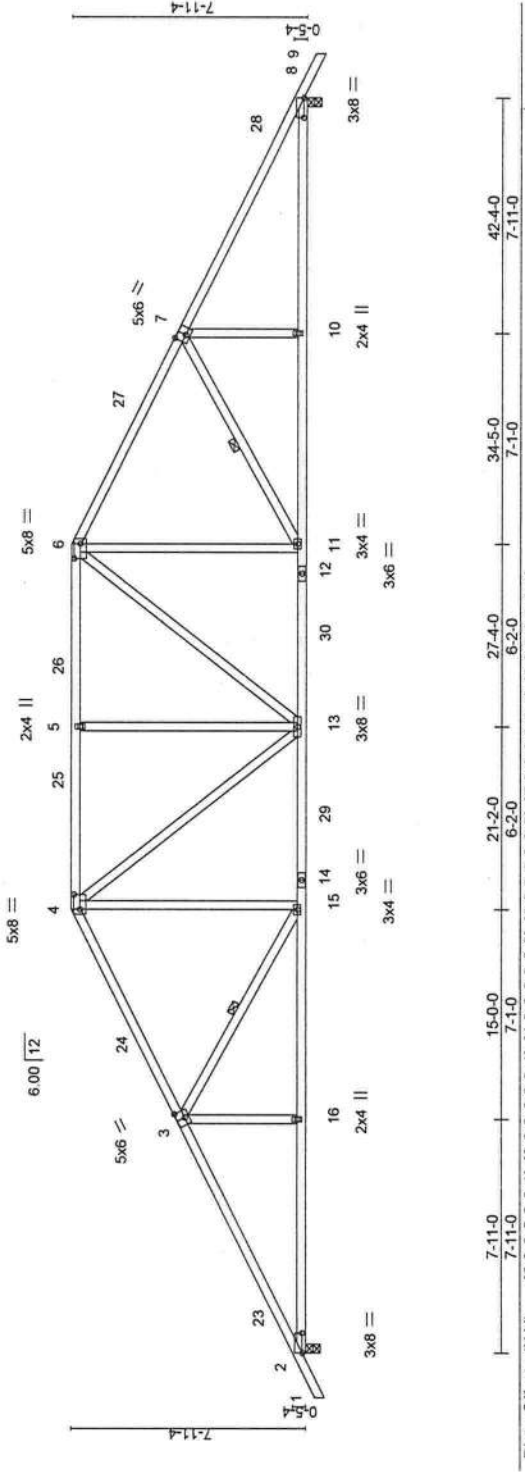


Plate Offsets (X, Y)	2-0-8-0,0-0-1	3-0-3-0,0-3-4	4-0-6-0,0-2-8	6-0-6-0,0-2-8	7-0-3-0,0-3-4	8-0-8-0,0-0-1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.76	Vert(LL) -0.26	11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT) -0.43	11-13	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.17	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS						

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

REACTIONS.	(size)	2=0-3-8, 8=0-3-8
Max Horiz	2=178(LC 12)	
Max Uplift	2=672(LC 12), 8=672(LC 13)	
Max Grav	2=1783(LC 2), 8=1783(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3195/1116, 3-4=-2563/918, 4-5=-2439/948, 5-6=-2439/948, 6-7=-2563/918, 7-8=-3195/1117
BOT CHORD	2-16=-1034/2794, 15-16=-1034/2794, 13-15=-662/2232, 11-13=-548/2232, 10-11=-856/2794, 8-10=-857/2794
WEBS	3-16=0/304, 3-15=-673/431, 4-15=-170/599, 4-13=-234/450, 5-13=-373/291, 6-13=-234/450, 6-11=-170/599, 7-11=-673/431, 7-10=0/304

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 27-4-0, Exterior(2R) 27-4-0 to 31-6-15, Interior(1) 31-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=l=b) 2-672, 8-672.



Joaquin Velez PE No.68182
 Mitek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: May 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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/TPI 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 33610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044013
2802399	T15	PIGGYBACK BASE	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job References (optional)
 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:25 2021 Page 1
 ID:RGWS14cPREnm5p9fgzNgAgcdk-MVD_h_kVp911QP0Oo6Qlnh5K6UgATEJouwvc/kzEuH0
 1-6.0 6-7.8 6-7.8 12.7-14 6-0.6 19-0.0 6-4.2 23-4.0 4-4.0 29-8.2 6-4.2 6-0.6 42-4.0 6-7.8 43-10.0 1-6.0

Scale = 1/75, 1

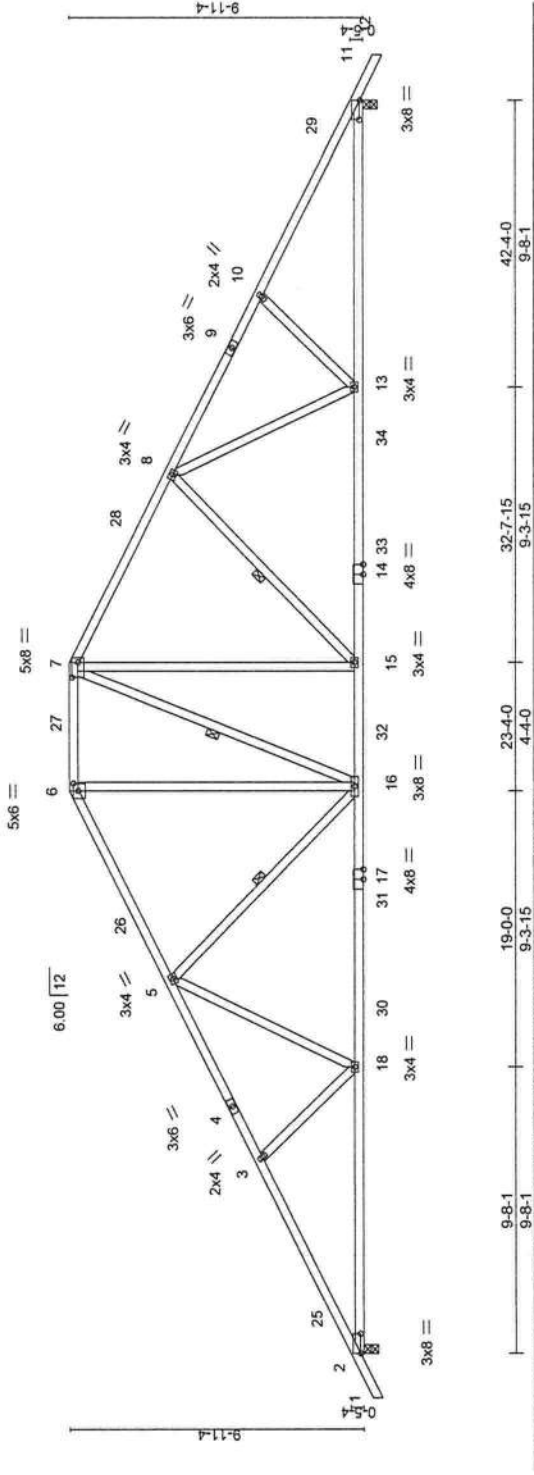


Plate Offsets (X,Y) - [2-0-8-0-0-0-1], [6-0-3-0-0-2-0], [7-0-6-0-0-2-8], [11-0-8-0-0-0-1]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) -0.38	13-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.94	Vert(CT) -0.65	13-15	>784	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.13	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TP1014	Matrix-MS						

Weight: 240 lb FT = 20%

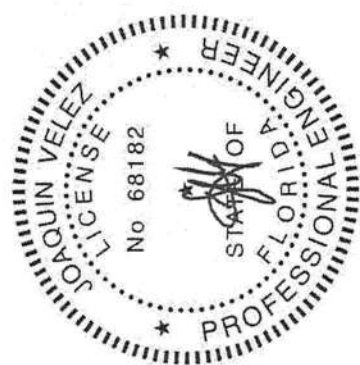
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-9 oc purlins.
BOT CHORD 2x4 SP M 31 *Except*	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 14-17: 2x4 SP No.2	1 Row at midpt 5-16, 7-16, 8-15

REACTIONS.	(size)
2x4 SP No.2	2=0-3-8, 11=0-3-8
2x4 SP M 31 *Except*	Max Horz 2=221(LC 17)
14-17: 2x4 SP No.2	Max Uplift 2=663(LC 12), 11=663(LC 13)
2x4 SP No.3	Max Grav 2=1810(LC 2), 11=1811(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3258/1125, 3-5=-3066/1063, 5-6=-2237/861, 6-7=-1948/827, 7-8=-2239/861, 8-10=-3070/1064, 10-11=-3259/1125
BOT CHORD 2-18=-1098/2857, 16-18=-821/2430, 15-16=-438/1950, 13-15=-658/2433, 11-13=-878/2860
WEBS 3-18=-302/300, 5-18=-176/631, 5-16=-698/461, 6-16=-241/752, 7-15=-286/760, 8-15=-699/462, 8-13=-176/632, 10-13=-302/300

NOTES:

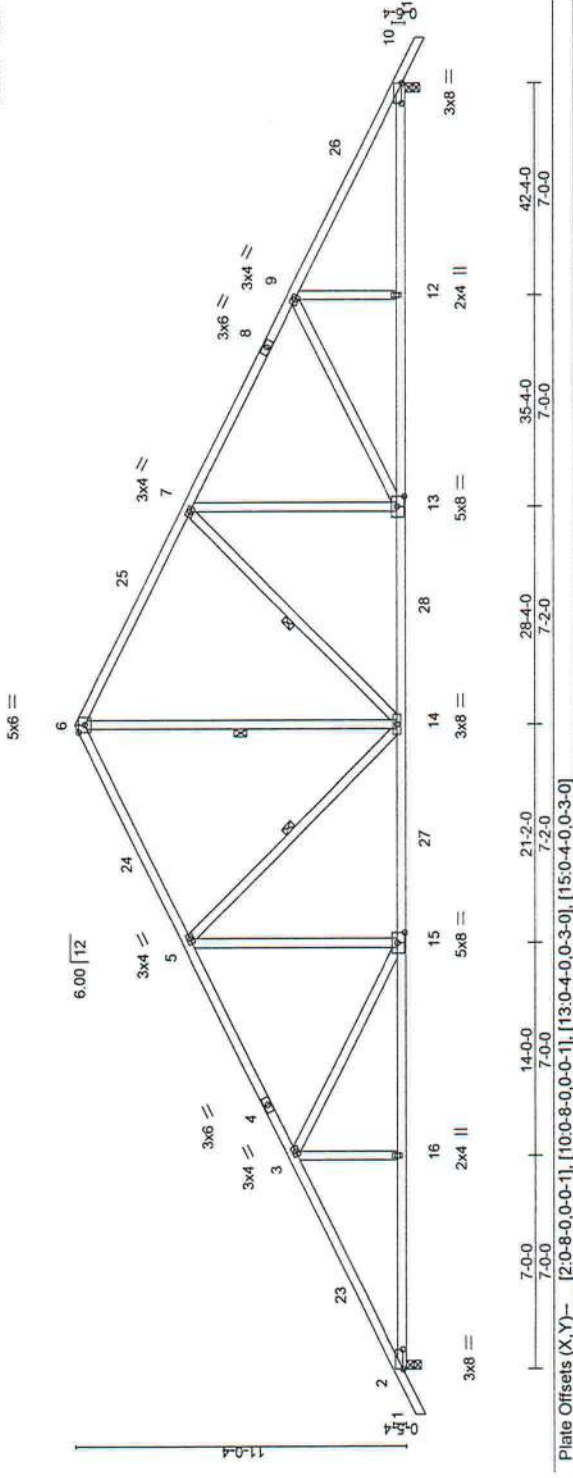
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 19-0-0, Exterior(2E) 19-0-0 to 23-4-0, Exterior(2R) 23-4-0 to 27-6-15, Interior(1) 27-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 (if=lb) 2=663, 11=663.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: May 22, 2021

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044014
2802399	T16	Common	6	1		
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,						
Job Reference (optional)						
8,430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:27 2021 Page 1						
ID:RGwS14cPREm5p9ygzNgAyvcdt-luL6gmmLmQjAmwVSDmCBefHm678KSL6OjBczEuH_						
1-6-0	7-0-0	14-0-0	21-2-0	28-4-0	35-4-0	42-4-0
1-6-0	7-0-0	7-0-0	7-2-0	7-0-0	7-0-0	1-6-0

Scale = 1:73.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.61	Vert(LL) -0.29	14-15	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.91	Vert(CT) -0.49	14-15	>999		
BCDL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.18	10	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					

Weight: 236 lb FT = 20%

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-4 oc bracing.
WEBS 1 Row at midpt 6-14, 7-14, 5-14

REACTIONS.
(size) 2=0-3-8, 10=0-3-8
Max Horz 2=244(LC 12)
Max Uplift 2=657(LC 12), 10=657(LC 13)
Max Grav 2=1788(LC 2), 10=1788(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
2-3=-3241/1098, 3-5=-2681/956, 5-6=-2030/837, 6-7=-2030/837, 7-9=-2681/956,
9-10=-3241/1099
BOT CHORD 2-16=-1093/2839, 15-16=-1093/2839, 14-15=-771/2341, 13-14=-606/2341,
12-13=-851/2839, 10-12=-851/2839
WEBS 6-14=-479/1459, 7-14=-847/506, 7-13=-124/555, 9-13=-570/364, 9-12=0/268,
5-14=-847/506, 5-15=-123/555, 3-15=-570/363, 3-16=0/268

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 21-2-0, Exterior(2R) 21-2-0 to 25-4-13, Interior(1) 25-4-13 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 (j=l=b) 2-657, 10-657.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 guidelines regarding the use of this design, please refer to the MiTek website at www.mitek.com or contact MiTek Technical Support at 1-800-851-7771. **Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044015
2802399	T17	Hip Girder	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSk4cPREm5p9fgzNgAycgdx-FGTVXMn1sNY8v1K91xUhsdG_n5A2b4WOoY1qFVzEuGy
8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:29 2021 Page 1
Job Reference (optional)
21-3-2 22-7-8 1-4-6
1-6-0 7-0-0 7-0-0 11-11-0 14-11-8 3-0-8 6-3-10

Scale = 1/42.7

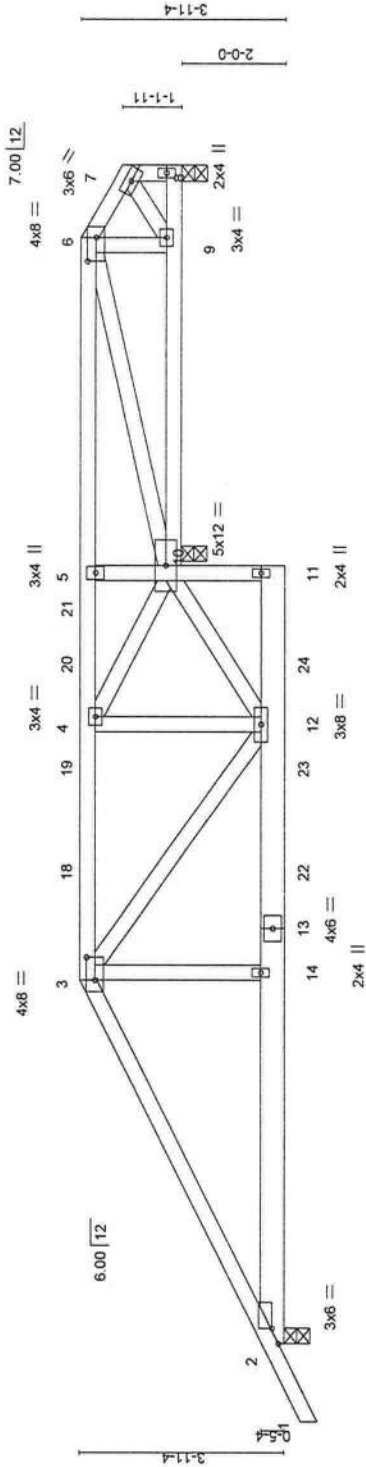


Plate Offsets (X,Y) =	2-0-3-7, 0-1-8, [3-0-5-4, 0-2-0], [6-0-5-8, 0-2-0]	7-0-0	11-11-0	14-11-8	21-3-2	22-7-8
		7-0-0	4-11-0	3-0-8	5-11-2	1-4-6

LOADING (psf)	SPACING-	CSI.	DEFL.	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.61	Vert(LL) 0.06 14-17 >999 240	>999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT) -0.08 9-10 >999 180	>999 180		
BCLL 0.0	Rep Stress Incr NO	WB 0.44	Horz(CT) 0.01 8 n/a n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS				

LUMBER-	2x4 SP No.2	BRACING-	Weight: 130 lb FT = 20%
TOP CHORD	2x6 SP No.2 *Except*	TOP CHORD	
BOT CHORD	5-11: 2x4 SP No.3, 8-10: 2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.3		

REACTIONS.	(size) 2=0-3-8, 8=0-3-8, 10=0-3-8	Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals.
	Max Horz 2=186(LC 8)	
	Max Uplift 2=645(LC 8), 8=204(LC 23), 10=1303(LC 5)	
	Max Grav 2=962(LC 1), 8=223(LC 20), 10=1700(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1495/1084, 3-4=-748/613, 7-8=-252/234	
BOT CHORD	2-14=-1011/1265, 12-14=-1028/1288, 5-10=-404/319	
WEBS	3-14=-418/660, 3-12=-667/538, 4-12=-691/259, 10-12=-702/893, 4-10=-1116/905, 6-10=-369/286, 7-9=-265/282	

- NOTES.**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MMFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - * 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 (j=lb) 2=645, 8=204, 10=1303.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 138 lb up at 7-0-0, 110 lb down and 138 lb up at 9-0-12, 110 lb down and 138 lb up at 11-0-12, and 110 lb down and 138 lb up at 13-0-12, and 110 lb down and 138 lb up at 14-10-12 on top chord, and 332 lb down and 399 lb up at 7-0-0, 86 lb down and 88 lb up at 9-0-12, 86 lb down and 88 lb up at 11-0-12, and 86 lb down and 88 lb up at 13-0-12, and 86 lb down and 88 lb up at 14-9-12 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	
1) Dead + Roof Live (balanced); Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-54, 3-6=-54, 6-7=-54, 11-15=-20, 8-10=-20	

Continued on page 2



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date: May 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based 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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL
2802399	T19	Hip	1	1	

Job Reference (optional)

T24044017

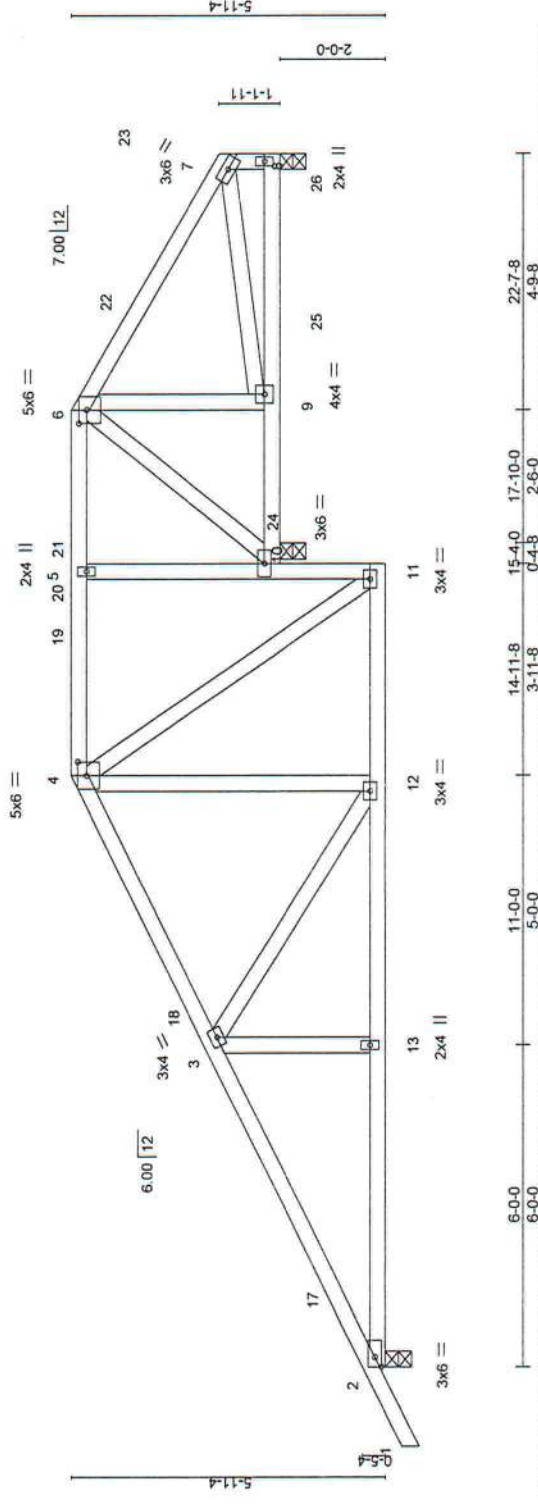
Builders FirstSource (Jacksonville, FL), Jacksonville FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:31 2021 Page 1

8,430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:31 2021 Page 1
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Scale = 1:41.7



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL)	0.04 13-16	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.32	Vert(CT)	-0.07 13-16	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT)	0.00 2	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS					

Weight: 130 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2

TOP CHORD 2x4 SP No. 2 *Except*

5-11: 2x4 SP No.3

WEBS
2x4 SP No.3
3 1/4" x 4 1/4"

REACTIONS.

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

Max Horz 2=229(LC 12)

Max Uplift 2=-286(LC 12). 10=-388(LC 9). 8=-158(LC 8)

Max Grav 2=624(LC 23). 10=855(LC 1). 8=269(LC 24)

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

TOP CHORD 2-3=-804/327, 3-4=-378/199, 6-7=-234/340, 7-8=-226/279

BOT CHORD
2-13=-405/664, 12-13=-405/664, 11-12=-138/266, 10-11=-210/443

WEBS 3-12=-463/314, 4-12=-139/363, 4-11=-494/264, 6-10=-246/356, 6-9=-299/163

NOTES-

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

2) Wind: ASCE 7-16, Vult=130mph (3-second gust) Vasd=101mph; TCOL=4 psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; End., GCpl=0.18; MWFRS (envelope) gable end and C-C Exterior(2E) -1.6 to +6.0, Interior(1) 1.6-0 to 11-0, Exterior(2R) 11-0 to 15-2.5, Interior(1) 15-2.5 to 17-10.0, Exterior(2R) 17-10.0 to 22-0.15, Interior(1) 22-0.15 to 22-5.12 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

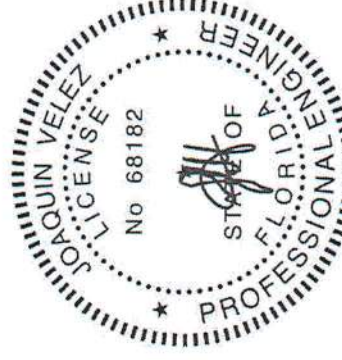
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

6) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

 $2=286, 10=388, 8=158.$ 

Joaquin Velez PE No.68182

Coaquim 901021 E No: 00102
MiTek USA, Inc. El. Cert 6634

6904 Parke East Blvd. Tampa FL 33610

Date:

May 22, 2021



6904 Parke East Blvd.
Tampa, FL 36610

IMAGING: Verify data parameters and DEAD NOTES ON THIS AND INCLUDED LITEK REFERENCE PAGE MI 7472 * 5/10/2020 REF CODE 115E

WARNING— Verify design parameters and READ NOTES on THIS and INCLUDED LITERATURE REFERENCE PAGE (081-743 7603) 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 permanent bracing

is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI-1 Quality Criteria, DSR-89 and BCSI Building Components**.

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044019
2802399	T21	HIP GIRDER	1	1		
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional)						
8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:33 2021 Page 1						
ID:RGwS4cPREmm59fgzNgAvqdx-72ONkrXwc2aOsewGnZd0TRIdaOXzM_JAr1OGzEuGu						
<div> <div>2-0-0</div> <div>2-0-0</div> <div>3-0-0</div> <div>3-0-0</div> <div>7-0-0</div> <div>4-0-0</div> <div>10-0-0</div> <div>3-0-0</div> <div>12-0-0</div> <div>2-0-0</div> </div>						
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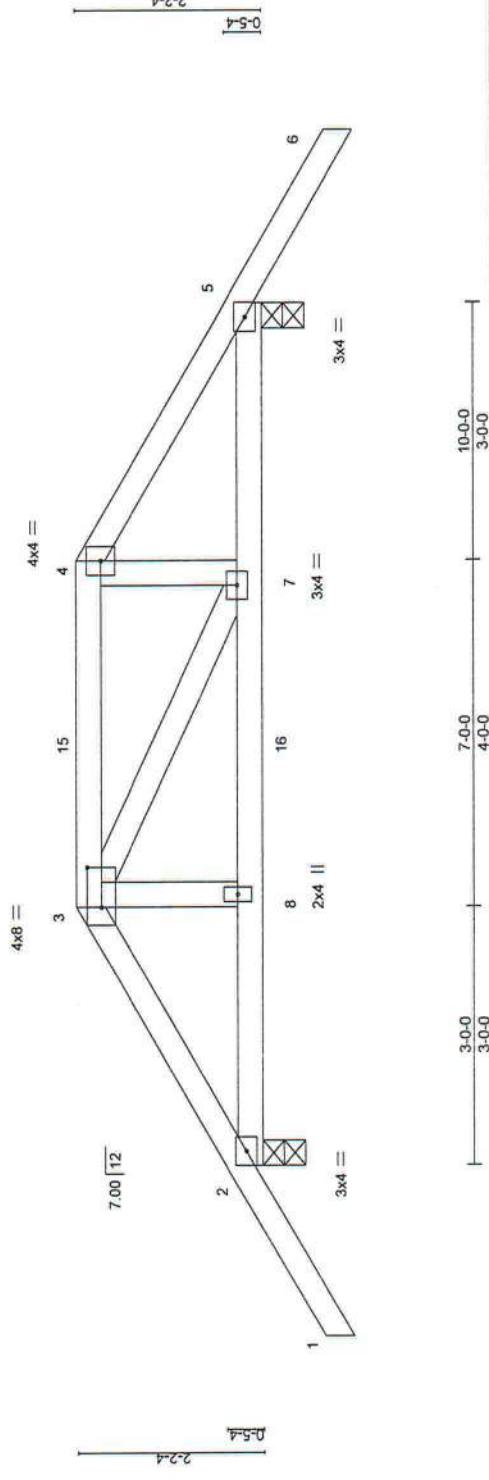


Plate Offsets (X,Y) = [3.0-5.8,0.2-0]						
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	Lid
TCLL 20.0	Plate Grip DOL 1.25	TC 0.27	Vert(LL) 0.03	7-8	>999	240
TCDL 7.0	Lumber DOL 1.25	BC 0.21	Vert(CT) -0.02	7-8	>999	180
BCLL 0.0	Rep Stress Incr NO	WB 0.06	Horz(CT) -0.01	5	n/a	n/a
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS				
Weight: 49 lb FT = 20%						

LUMBER:		BRACING:	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-11-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS:	
(size)	2=0-3-8, 5=0-3-8
Max Horz	2=94(LC 6)
Max Uplift	2=342(LC 5), 5=343(LC 9)
Max Grav	2=521(LC 19), 5=521(LC 20)

FORCES:	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-554/489, 3-4=-454/441, 4-5=-554/488
BOT CHORD	2-8=-428/519, 7-8=-433/526, 5-7=-406/504

- NOTES:**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=342, 5=343.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb down and 143 lb up at 3-0-0, and 93 lb down and 49 lb up at 4-11-4, and 133 lb down and 143 lb up at 7-0-0 on top chord, and 144 lb down and 48 lb up at 3-0-0, and 53 lb down at 4-11-4, and 144 lb down and 48 lb up at 6-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 9-12=-20	
Concentrated Loads (lb)	
Vert: 3=-15(F) 4=-15(F) 8=-17(F) 7=-17(F) 15=-6(F) 16=-8(F)	



Joaquin Velazquez PE No.68182
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 22, 2021

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044020
2802399	T22	COMMON	1	1		

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

Job Reference (optional)

8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:34 2021 Page 1
ID:RGwS14cPREnm5p9fgzNgAycdk-bEGOa3ghwAQ7oc7qV4sZq_vB6umGPx7ypaawizEuGt



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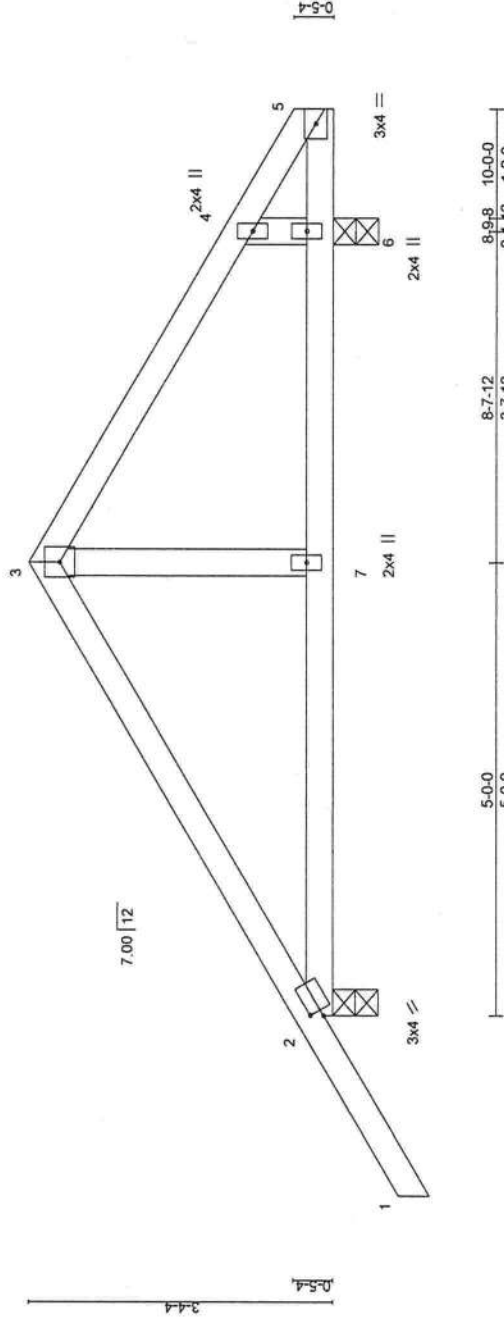


Plate Offsets (X,Y) - [2.0-0-15.0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2.0-0	TC 0.38	Vert(LL) 0.08	7-13	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) 0.07	7-13	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) -0.01	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					

Weight: 41 lb FT = 20%

LUMBER-

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

REACTIONS.

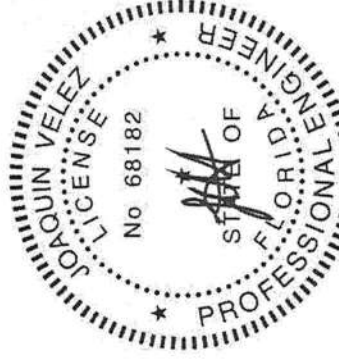
(size) 2=0-3-8, 6=0-3-8
Max Horz 2=117(LC 9)
Max Uplift 2=202(LC 12) 6=158(LC 13)
Max Grav 2=433(LC 1), 6=415(LC 1)

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

TOP CHORD 2-3=-306/468, 3-4=-302/509, 4-5=-194/315
BOT CHORD 2-7=-307/205, 6-7=-307/205, 5-6=-307/205
WEBS 3-7=-306/151, 4-6=-264/354

NOTES.

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(ZE) -2.0-0 to 1-0-0, Interior(I) 1-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 10-0-0 zone; cantilever right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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=202, 6=158.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6834
6904 Parke East Blvd. Tampa FL 33610
Date: May 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 required for all trusses. Personal injury and property damage may result from use of this design without proper bracing. For general guidance regarding truss design, storage, delivery, erection, bracing of trusses and towers, please refer to the **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	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 54 PLL	T24044021
2802399	T23	COMMON	2	1		
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Job Reference (optional)						
8-430 s Apr 20 2021 Mitek Industries, Inc. Wed May 19 15:55:35 2021 Page 1						
ID:RGwS14cPREnm59fyzNgAycgdx-3QqmoPsnSDIH4ynJOCb55uW4GWF7?sfGBTK8S9zEuGs						
-2-0-0			5-0-0		8-9-8	
2-0-0			5-0-0		3-9-8	

Scale = 1:24.5

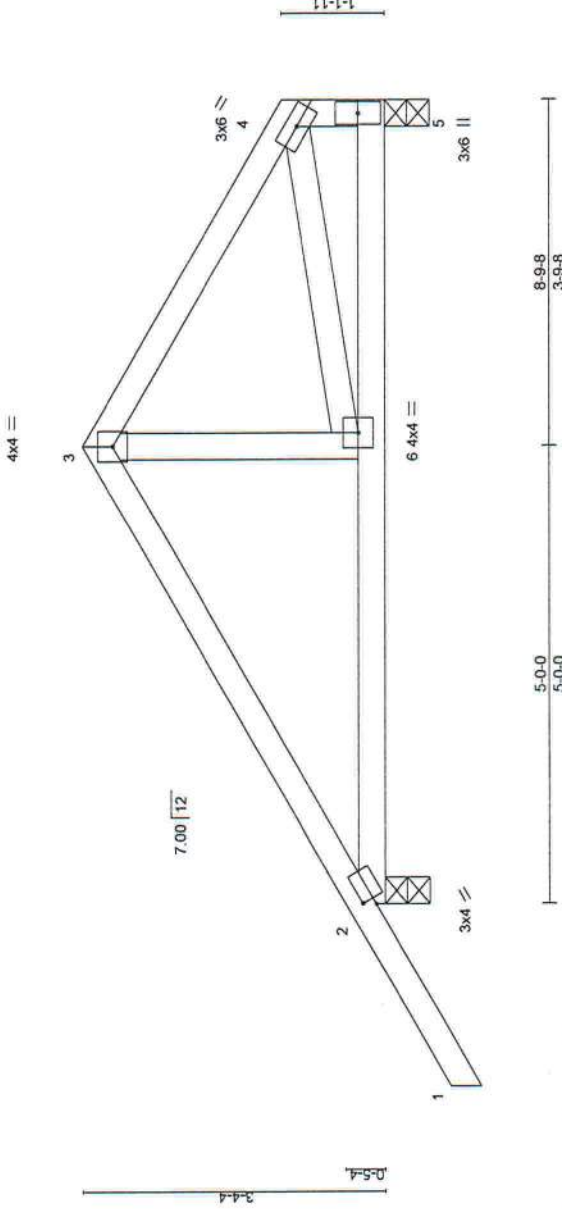


Plate Offsets (X,Y) - [2-0-0-15,0-1-8]						
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/d	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.36	Vert(LL) 0.05	6-9	>999	240
TCDL 7.0	Lumber DOL 1.25	BC 0.28	Vert(CT) 0.05	6-9	>999	180
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.00	2	n/a	n/a
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS				

LUMBER-	BRACING-	Weight: 42 lb FT = 20%	
TOP CHORD 2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD 2x4 SP No 2	BOT CHORD	Rigid ceiling directly applied or 8-4-7 oc bracing.	
WEBS 2x4 SP No 3			

REACTIONS.	
Max Horz 2=135(LC 12)	
Max Uplift 2=-202(LC 12), 5=-108(LC 13)	
Max Grav 2=440(LC 1), 5=307(LC 1)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-342/559, 3-4=-322/576, 4-5=-280/465	
BOT CHORD 2-6=-430/238	
WEBS 3-6=-324/155, 4-6=-365/199	

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E)-2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 8-7-12 zone; cantilever left exposed; porch left and right exposed/C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=-202, 5=108.

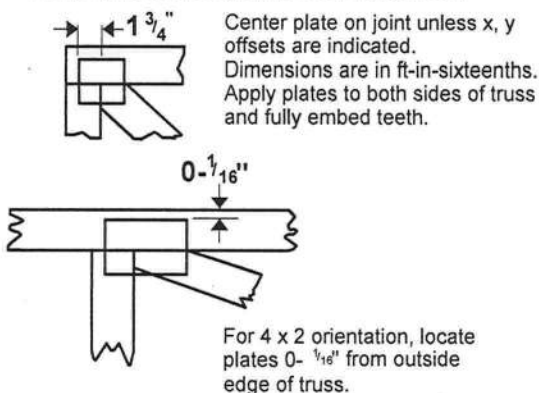


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Date: May 22, 2021



Symbols

PLATE LOCATION AND ORIENTATION



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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING

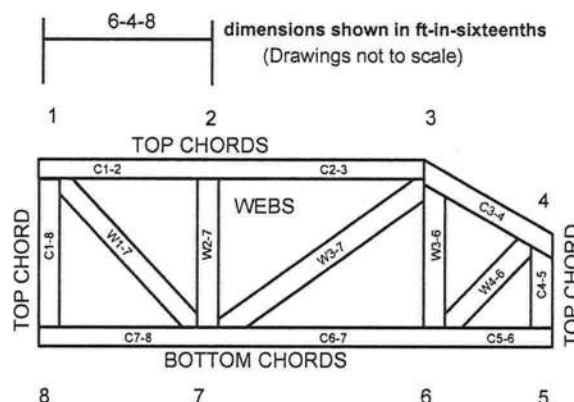


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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



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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

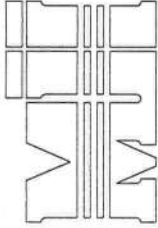
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed 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.

AUGUST 1, 2016

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

MII-T-BRACE 2

®



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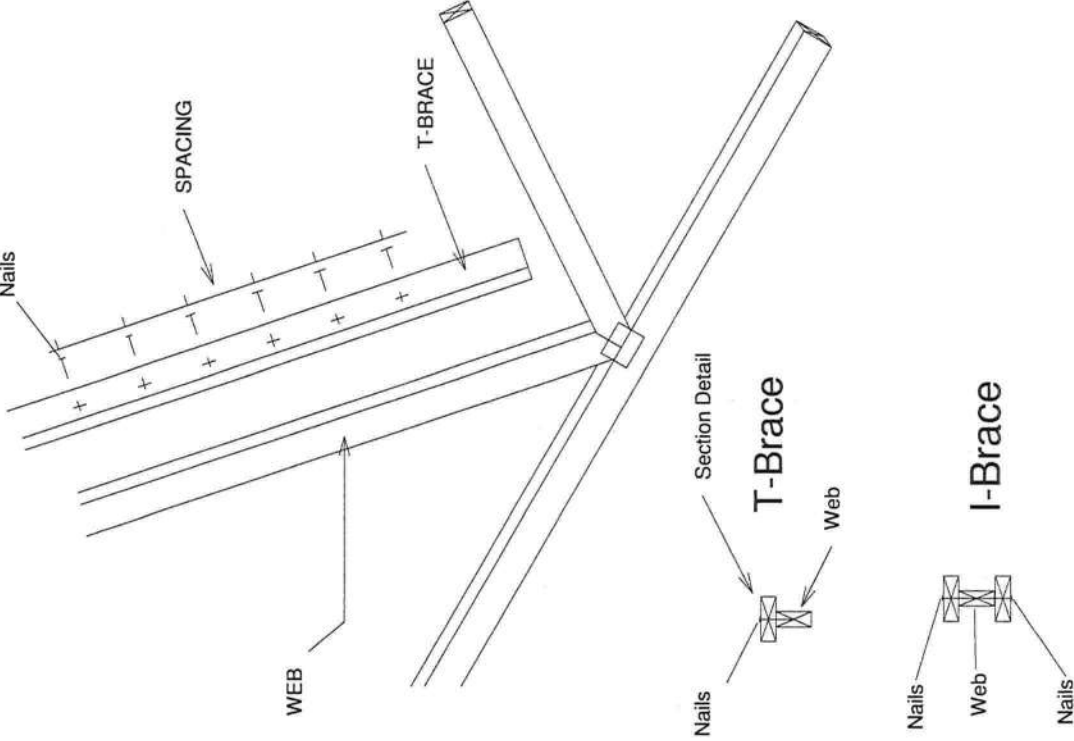
MiTek USA, Inc. Page 1 of 1

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

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

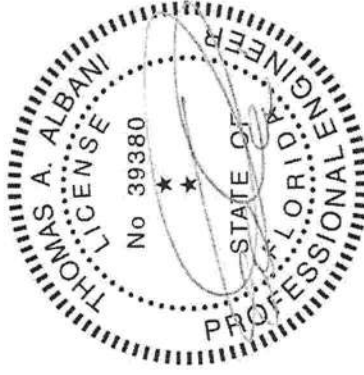
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

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



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

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



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Date:

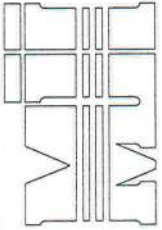
February 12, 2018

AUGUST 1, 2016

SCAB-BRACE DETAIL

MII-SCAB-BRACE

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Page 1 of 1

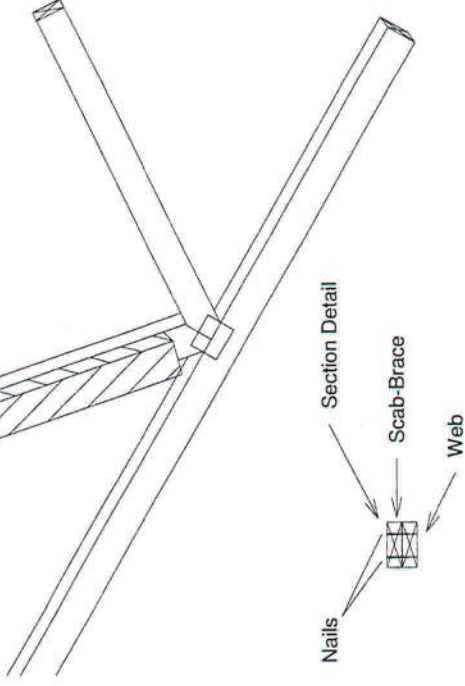
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

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

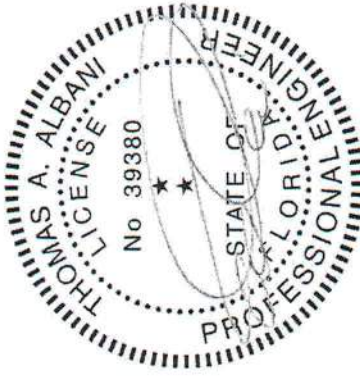
APPLY 2x SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.

SCAB BRACE

MAXIMUM WEB AXIAL FORCE = 2500 lbs
MAXIMUM WEB LENGTH = 12'-0"
2x4 MINIMUM WEB SIZE
MINIMUM WEB GRADE OF #3



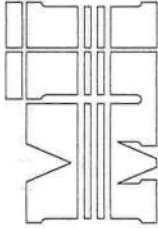
Scab-Brace must be same species grade (or better) as web member.



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February 12, 2018

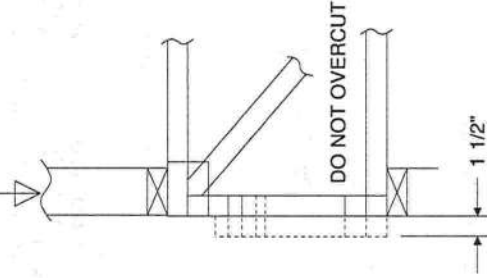
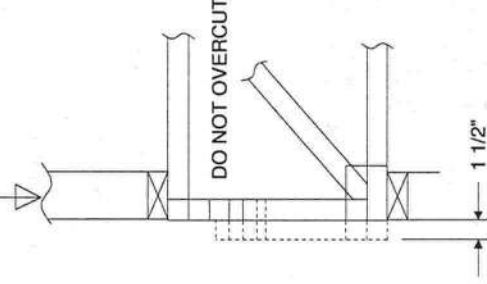
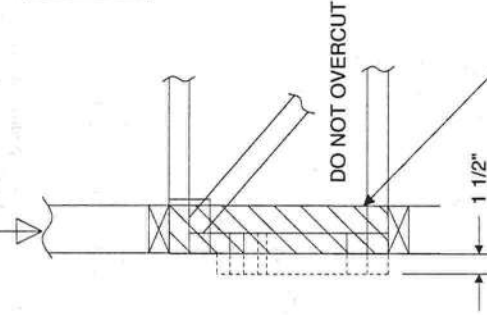
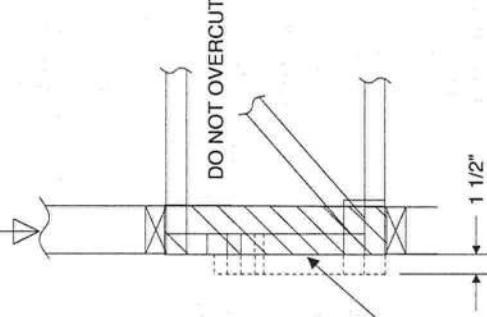
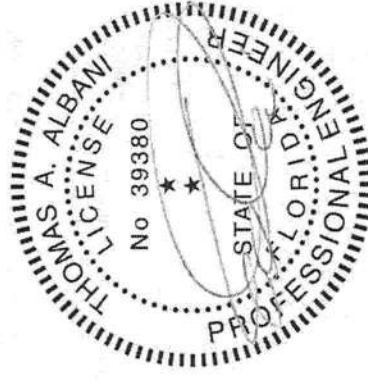
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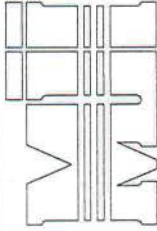
ENGINEERED BY
TRENCO
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1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS 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.

500# MAXIMUM WALL
LOAD FROM ABOVE
 REFER TO INDIVIDUAL
 TRUSS DESIGN FOR
 PLATE SIZES AND
 LUMBER GRADES
TRUSSES BUILT
WITH 4x2 MEMBERS500# MAXIMUM WALL
LOAD FROM ABOVE4000# MAXIMUM WALL
LOAD FROM ABOVE
 REFER TO INDIVIDUAL
 TRUSS DESIGN FOR
 PLATE SIZES AND
 LUMBER GRADES
TRUSSES BUILT
WITH 4x2 MEMBERS4000# MAXIMUM WALL
LOAD FROM ABOVE
 ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY)
 TO BOTH SIDES OF THE TRUSS AS SHOWN WITH
 10d (0.131" X 3") NAILS SPACED 3" O.C.

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 Date:

February 12, 2018

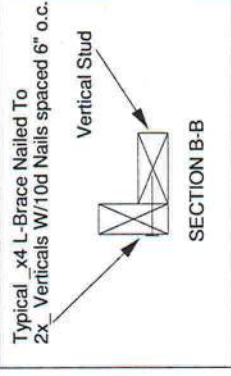
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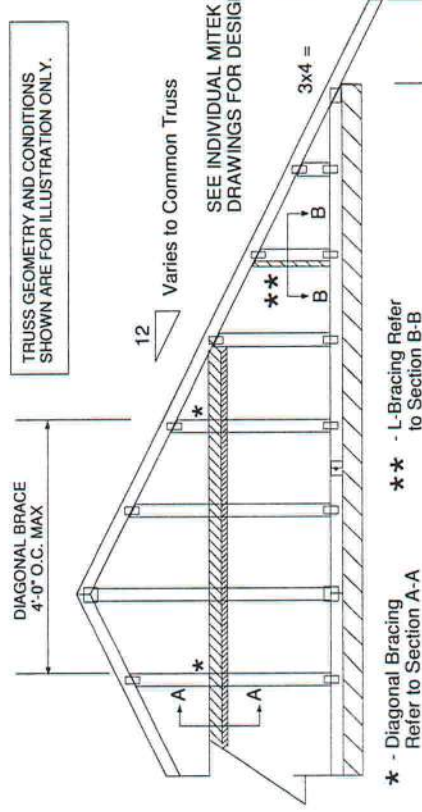
MiTek USA, Inc.



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TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.



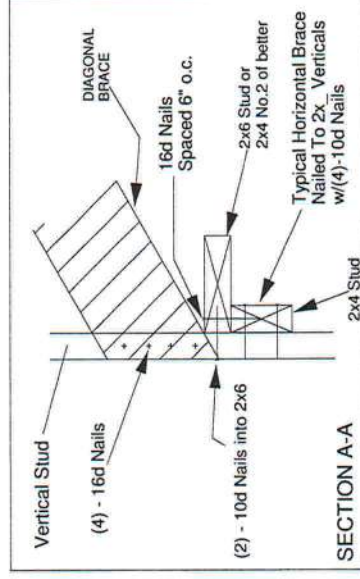
* - Diagonal Bracing Refer to Section A-A

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

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. DIAPHRAM AT 4'-0" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF.
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 U/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 SPI/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

SECTION A-A

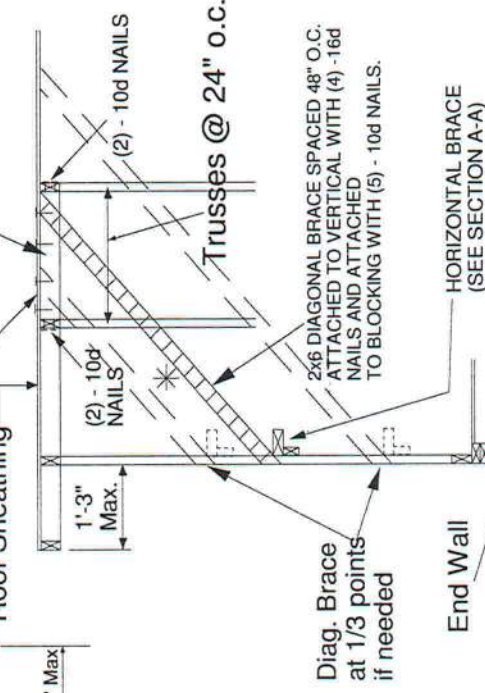


PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

(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

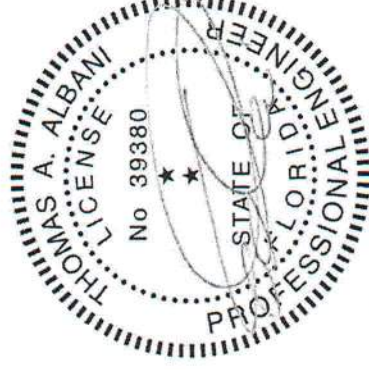
End Wall

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-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
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8
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 L-braces attached to both edges. Fasten T and L braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

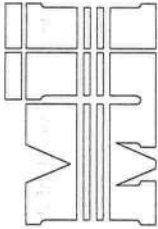
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE D
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

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

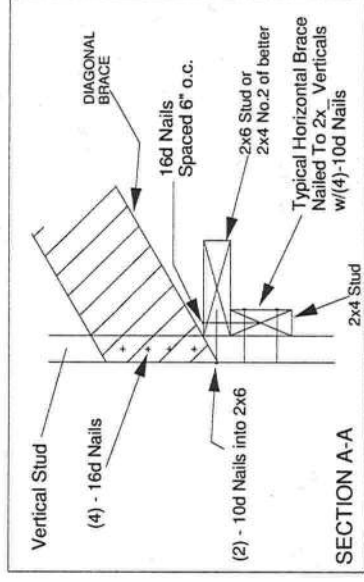
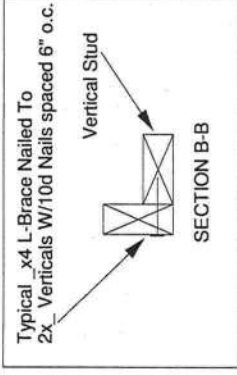
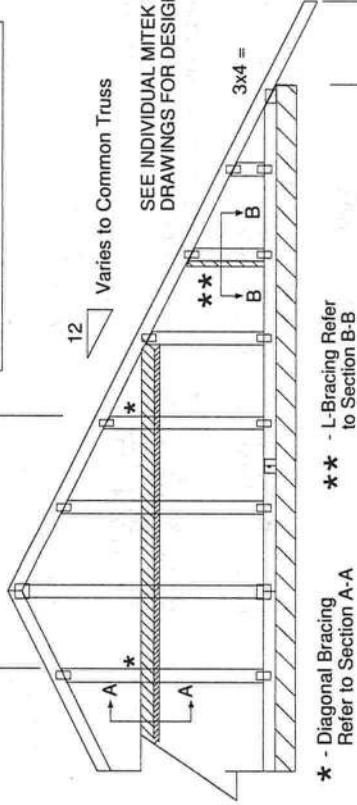


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Date:

February 12, 2018



MiTek USA, Inc.

ENGINEERED BY
A MiTek AffiliateTRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.* - Diagonal Bracing
Refer to Section A-A** - L-Bracing Refer
to Section B-B

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/LSC.
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" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

Trusses @ 24" O.C.

Diag. Brace
at 1/3 points
if needed

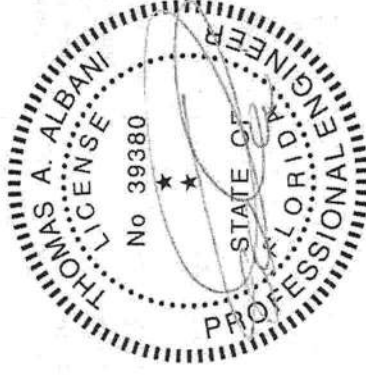
End Wall

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

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

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

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



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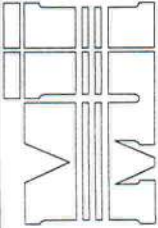
Date: **February 12, 2018**

JANUARY 6, 2017

Standard Gable End Detail

MIL-GE140-001

(R)



MiTek USA, Inc.

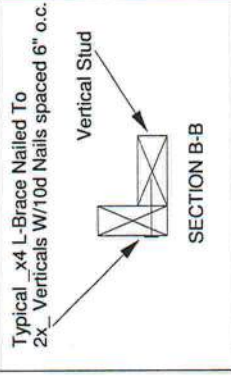
ENGINEERED BY



A MiTek Affiliate

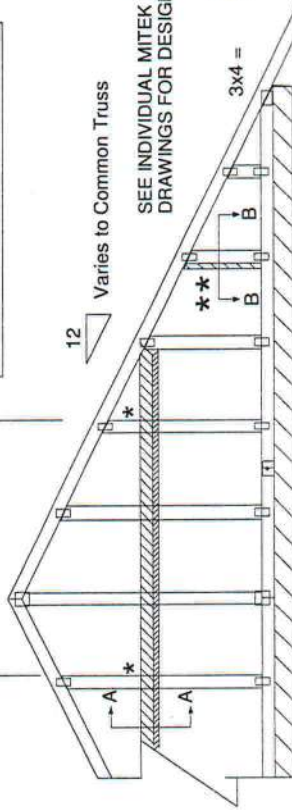
MiTek USA, Inc.

Page 1 of 2



SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

DIAGONAL BRACE
4'-0" O.C. MAX

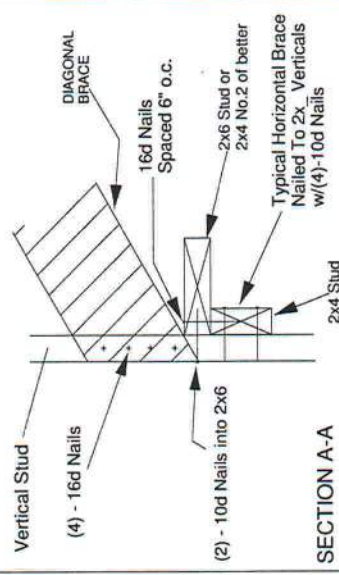
Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

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

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.

SECTION A-A



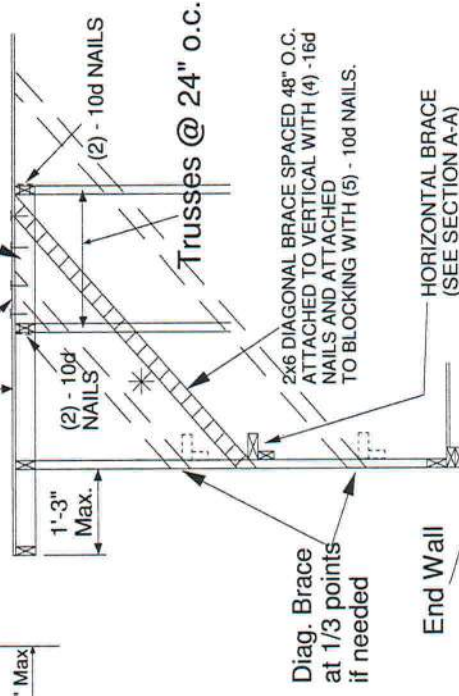
★ - Diagonal Bracing Refer to Section A-A

★★ - 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. 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")

Roof Sheathing



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

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

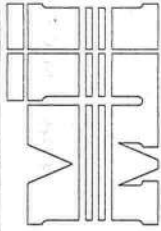
MAXIMUM WIND SPEED = 140 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

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

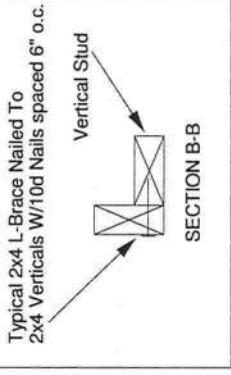
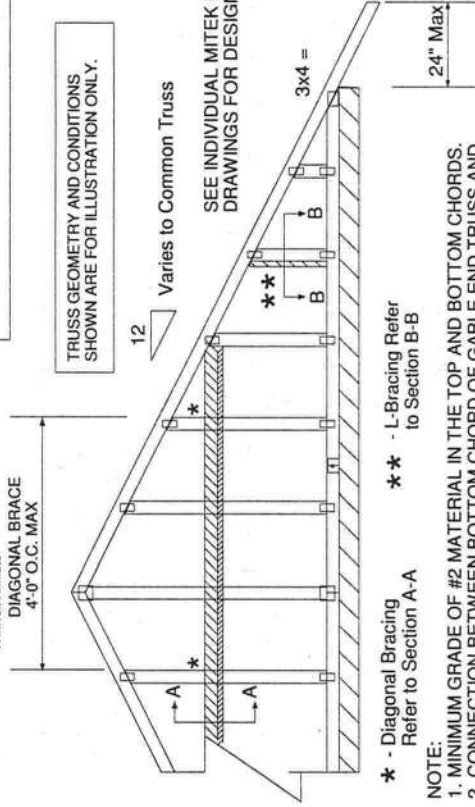


Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19, 2018



MITek USA, Inc.

 ENGINEERED BY
TRENCO
 A MITek Affiliate

 TRUSS GEOMETRY AND CONDITIONS
 SHOWN ARE FOR ILLUSTRATION ONLY.

 * - Diagonal Bracing
 Refer to Section A-A

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

NOTE:

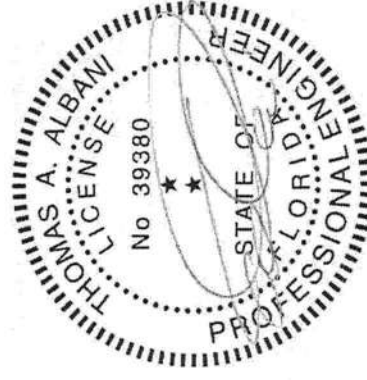
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF 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/LSC.
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 L-braces attached to both edges. Fasten T and L braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or L braces must be 2x4 SPF No. 2 or SP No. 2.

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

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



Thomas A. Albani PE No.39380
 MITek USA, Inc. FL Cert 66334
 6904 Parke East Blvd. Tampa FL 33610
 Date:

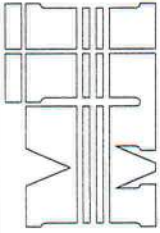
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE180-D-SP

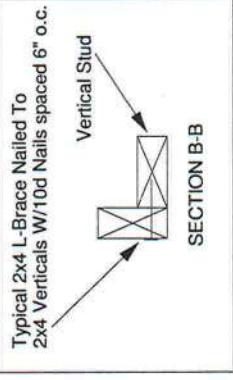
(R)



ENGINEERED BY
MIITEK
A MiTek Affiliate

MiTek USA, Inc.

MiTek USA, Inc. Page 1 of 2

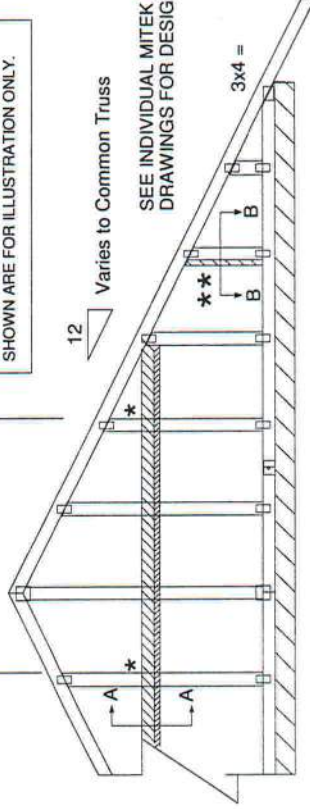


SECTION B-B

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

12

Varies to Common Truss

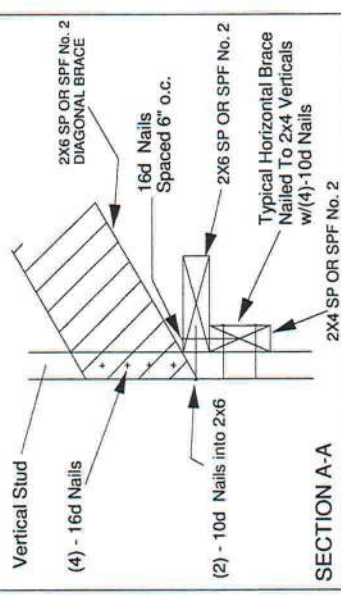
DIAGONAL BRACE
4'-0" O.C. MAX

★ - Diagonal Bracing
Refer to Section A-A

★★ - L-Bracing Refer
to Section B-B

NOTE:

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



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

24" Max

(2) - 10d NAILS

Trusses @ 24" o.c.

1'-0" Max.

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.

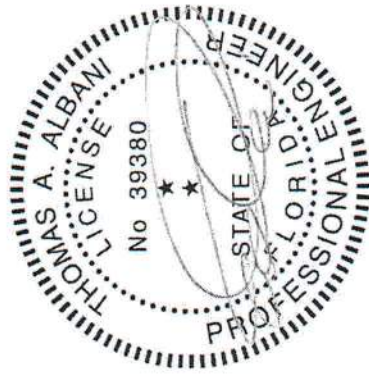
HORIZONTAL BRACE
(SEE SECTION A-A)

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

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

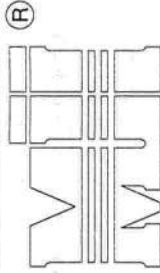
MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 180 MPH
DURATION OF LOAD INCREASE : 1.60

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



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Date:

February 12, 2018



MiTek USA, Inc.

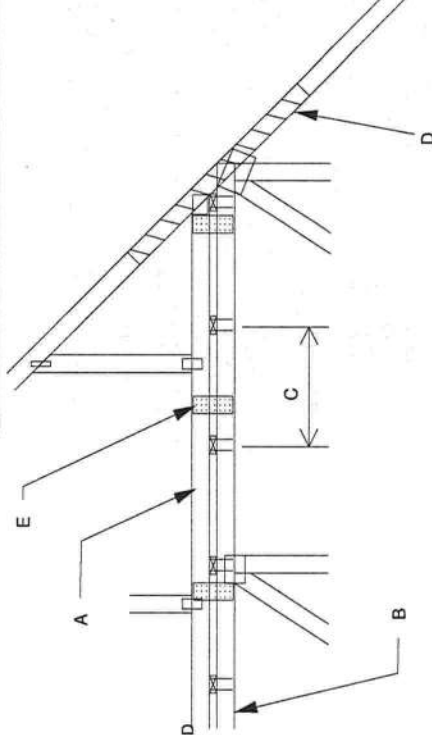


MiTek USA, Inc. Page 1 of 1

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

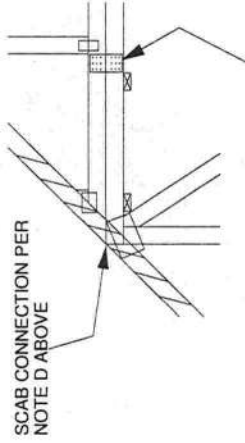
DETAIL IS NOT APPLICABLE FOR TRUSSES
 TRANSFERRING DRAG LOADS (SHEAR TRUSSES).
 ADDITIONAL CONSIDERATIONS BY BUILDING
 ENGINEER/DESIGNER ARE REQUIRED.

- 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.
- D - 2 X 4 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)



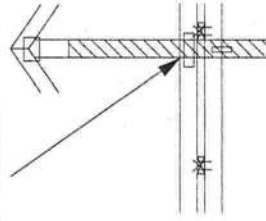
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.



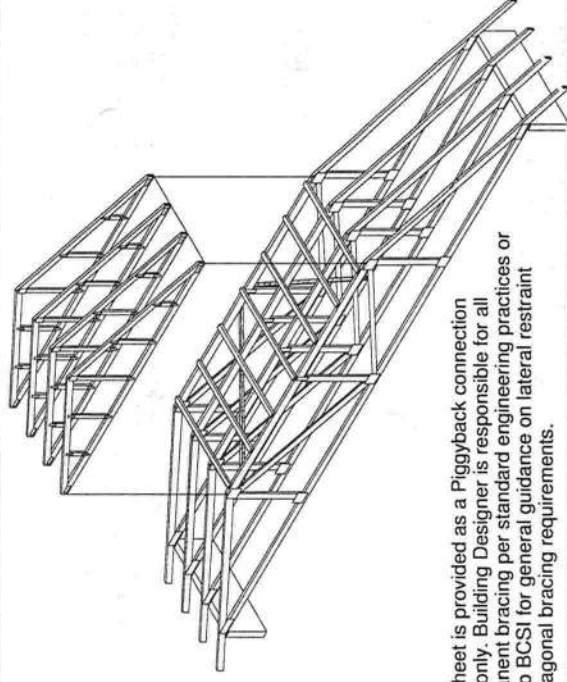
FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.

VERTICAL WEB TO
 EXTEND THROUGH
 BOTTOM CHORD
 OF PIGGYBACK

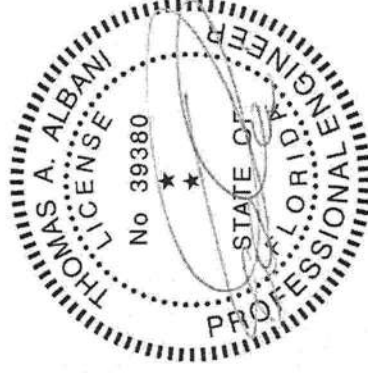


FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

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



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.



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 6904 Parke East Blvd. Tampa FL 33610
 Date:

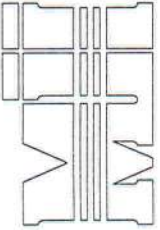
February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK
TRUSS CONNECTION DETAIL

MII-PIGGY-ALT
7-10

(R)



MiTek USA, Inc.



MiTek USA, Inc. Page 1 of 1

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

DURATION OF LOAD INCREASE : 1.60

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

A - PIGGYBACK TRUSS. REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0.131" X 3.57" TOE-NAILED.

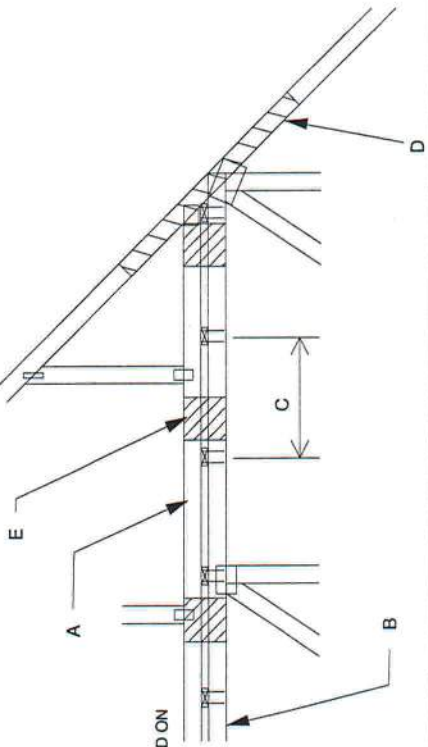
B - BASE TRUSS. REFER TO MITEK TRUSS DESIGN DRAWING.

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 3.57" NAILS EACH.

D - 2 X _____ X 4'-0" SCAB. SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS. MIN GRADE #2. ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF 0.131" X 3.7" 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.

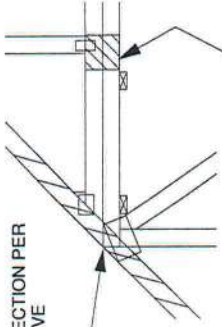
E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH
ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET
EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH
3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM
EACH SIDE (TOTAL - 12 NAILS)



WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

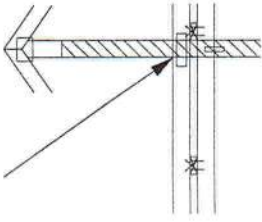
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD
GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE
TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE
TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER
NOTE D ABOVE



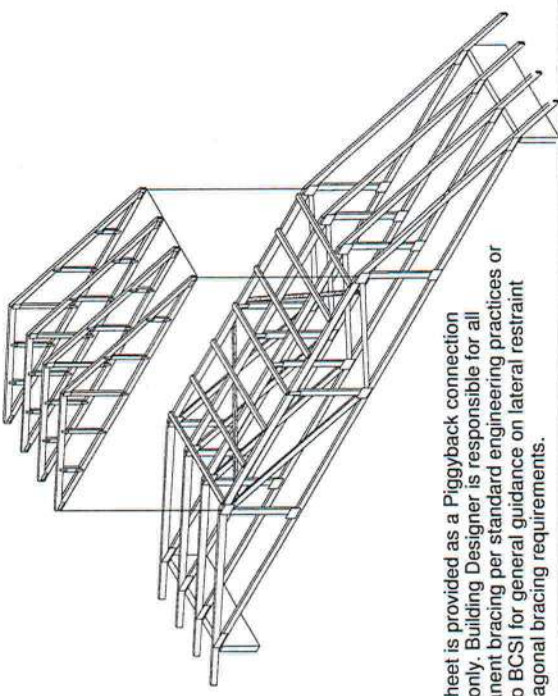
7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C.
ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD
FROM EACH SIDE (TOTAL - 12 NAILS)

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK

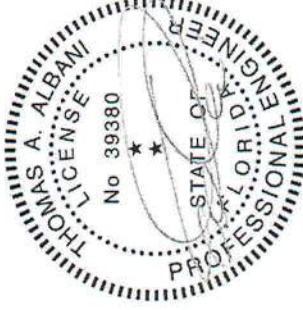


FOR LARGE CONCENTRATED LOADS APPLIED
TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS
MUST MATCH IN SIZE, GRADE, AND MUST LINE UP
AS SHOWN IN DETAIL.
- 2) ATTACH 2 x _____ x 4'-0" SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3.7") 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.



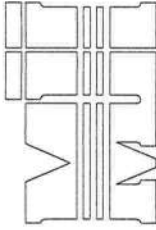
This sheet is provided as a Piggyback connection
detail only. Building Designer is responsible for all
permanent bracing per standard engineering practices or
refer to BCSI for general guidance on lateral restraint
and diagonal bracing requirements.



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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		1706	2559	1561	2342	1320	1980	1352	2028
20	30	24"	2194	3291	2007	3011	1697	2546	1738	2608
26	39	30"	2681	4022	2454	3681	2074	3111	2125	3187
32	48	36"	3169	4754	2900	4350	2451	3677	2511	3767
38	57	42"	3657	5485	3346	5019	2829	4243	2898	4347
44	66	48"								

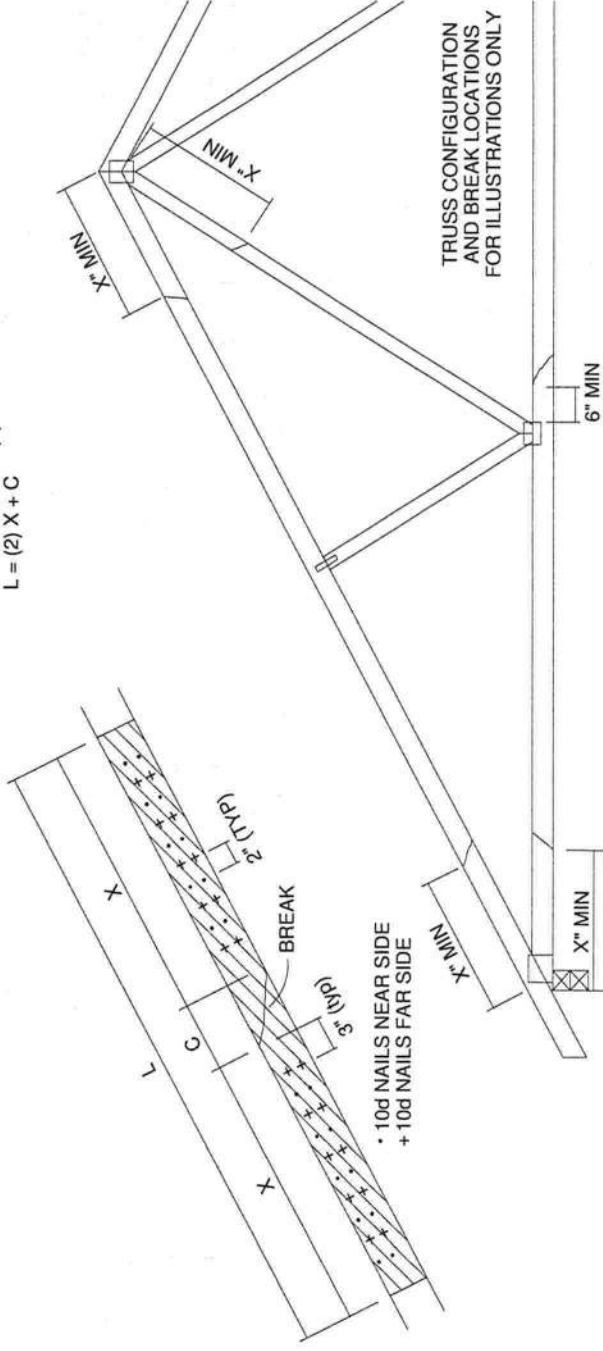
* DIVIDE EQUALLY FRONT AND BACK

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:

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



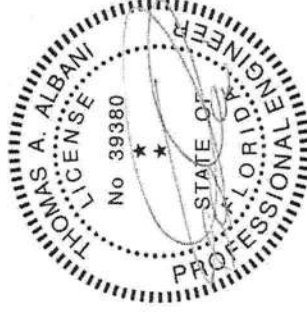
TRUSS CONFIGURATION
AND BREAK LOCATIONS
FOR ILLUSTRATIONS ONLY

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

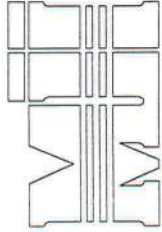
NOTES:

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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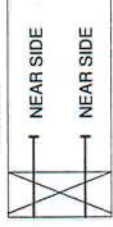
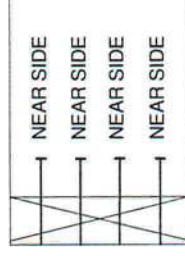
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NOTES:

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

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)						
DIAM.	SP	DF	HF	SPF	SPF-S	
.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	
3.5" 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	
3.25" LONG						

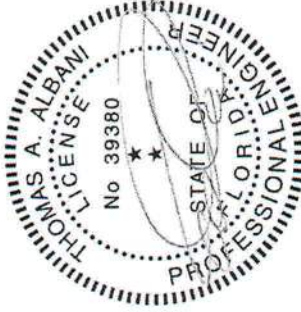
VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLYSIDE VIEW
(2x3)
2 NAILSSIDE VIEW
(2x6)
4 NAILSSIDE VIEW
(2x4)
3 NAILSVALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

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

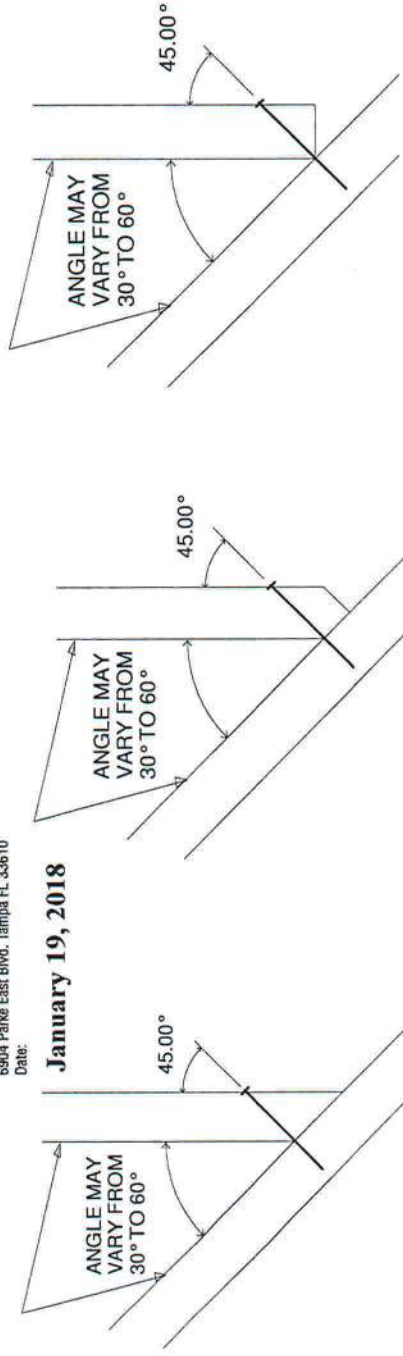
For load duration increase of 1.15:

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



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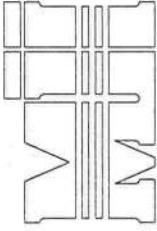


AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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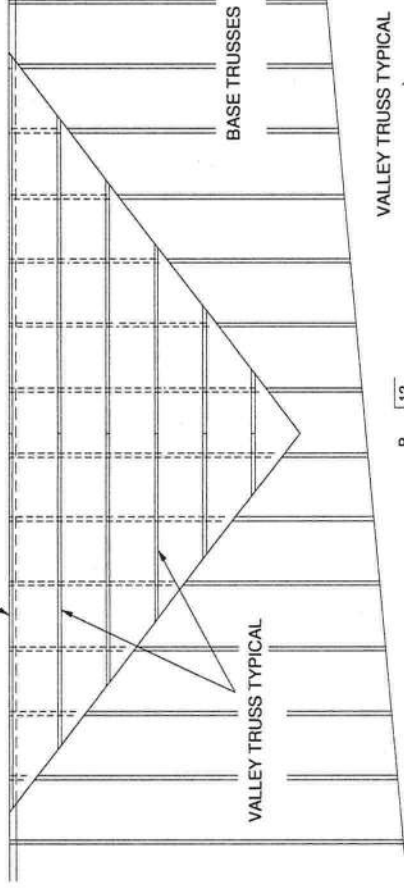
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GENERAL SPECIFICATIONS

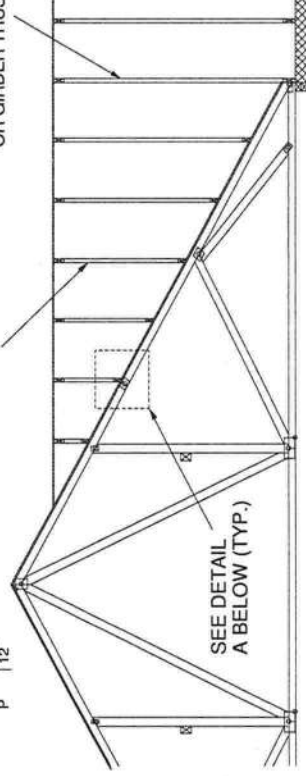
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING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

GABLE END, COMMON TRUSS
OR GIRDER TRUSS

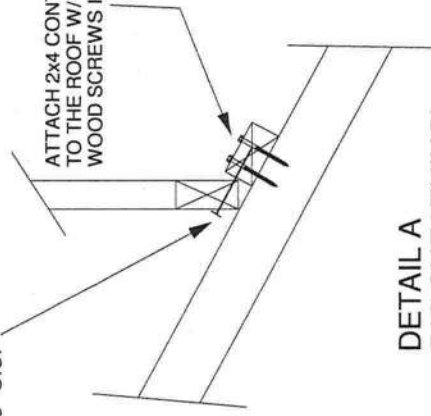
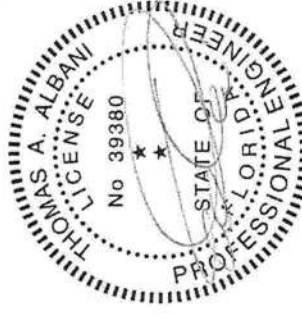
VALLEY TRUSS TYPICAL

GABLE END, COMMON TRUSS
OR GIRDER TRUSS

P 12

SEE DETAIL
A BELOW (TYP.)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.

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

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

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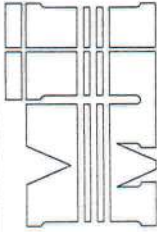
January 19, 2018

AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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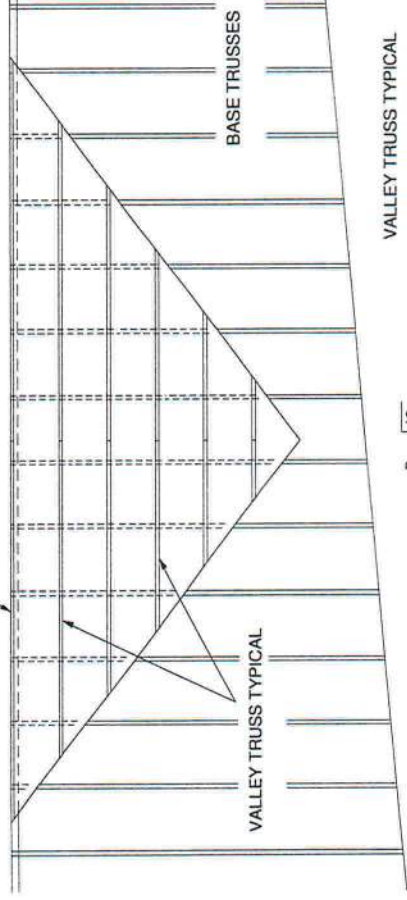
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Page 1 of 1

GENERAL SPECIFICATIONS

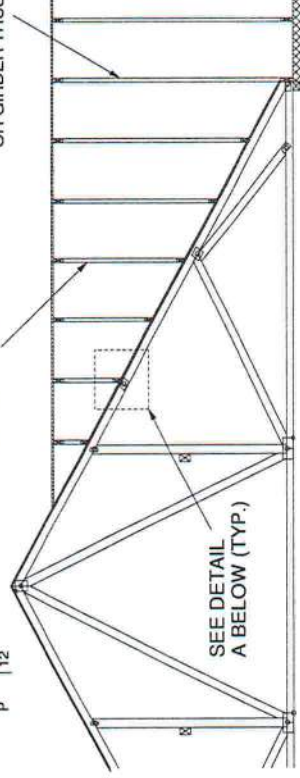
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVARIANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE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

GABLE END, COMMON TRUSS
OR GIRDER TRUSS

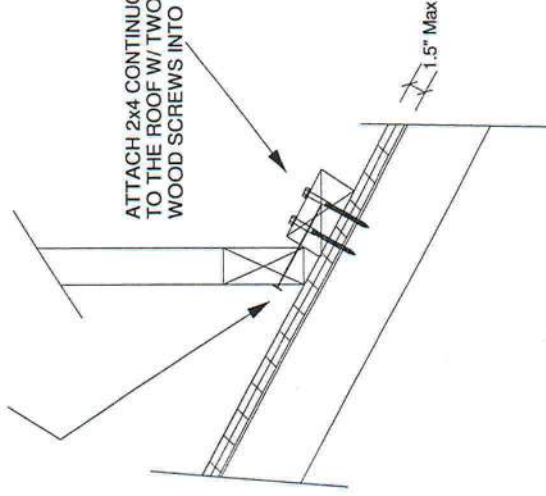


VALLEY TRUSS TYPICAL

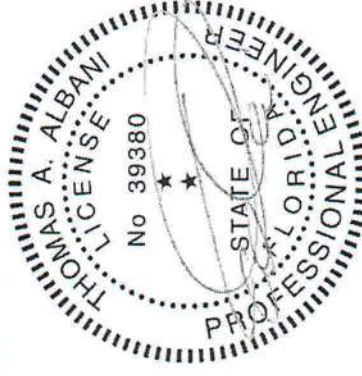
GABLE END, COMMON TRUSS
OR GIRDER TRUSS



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



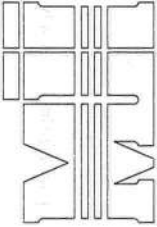
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)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



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February 12, 2018

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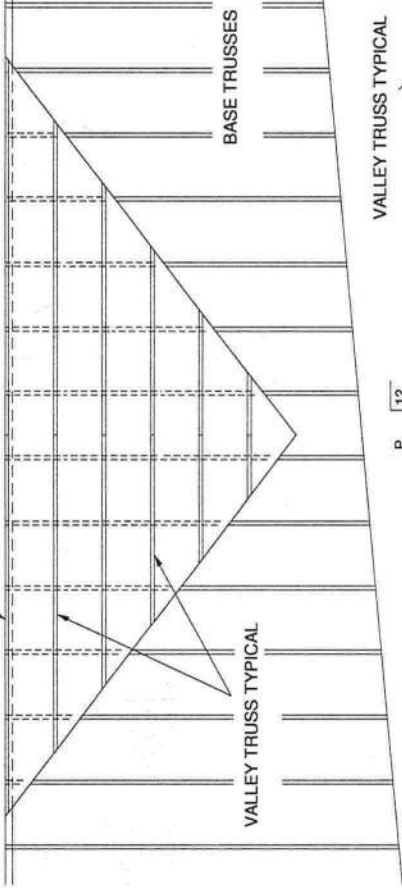
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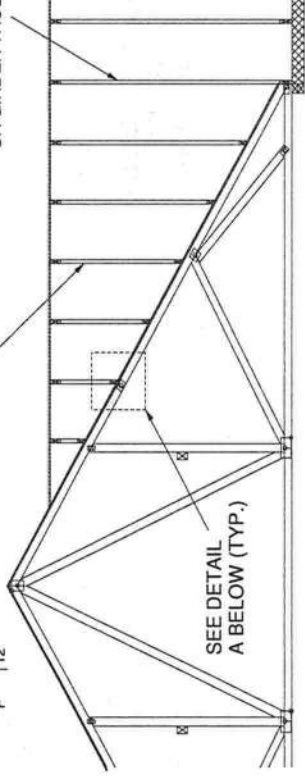
GENERAL SPECIFICATIONS

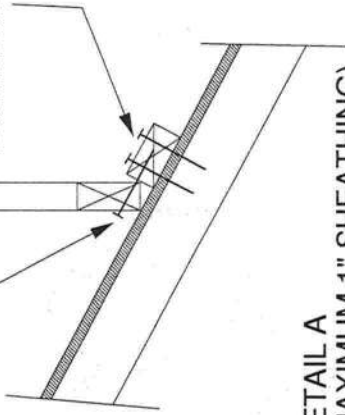
1. NAIL SIZE 16d (0.131" X 3.5")
2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVALENT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING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

 GABLE END, COMMON TRUSS
 OR GIRDER TRUSS

 GABLE END, COMMON TRUSS
 OR GIRDER TRUSS

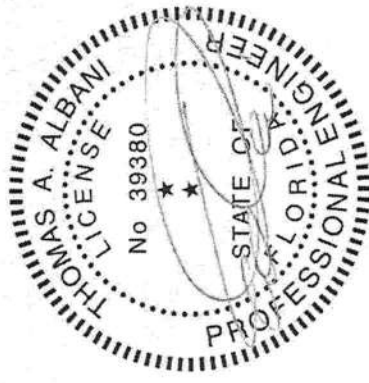
VALLEY TRUSS TYPICAL

P | 12


 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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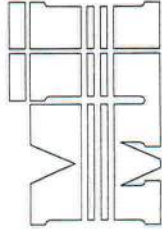
TRUSSED VALLEY SET DETAIL
(HIGH WIND VELOCITY)

MII-VALLEY

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

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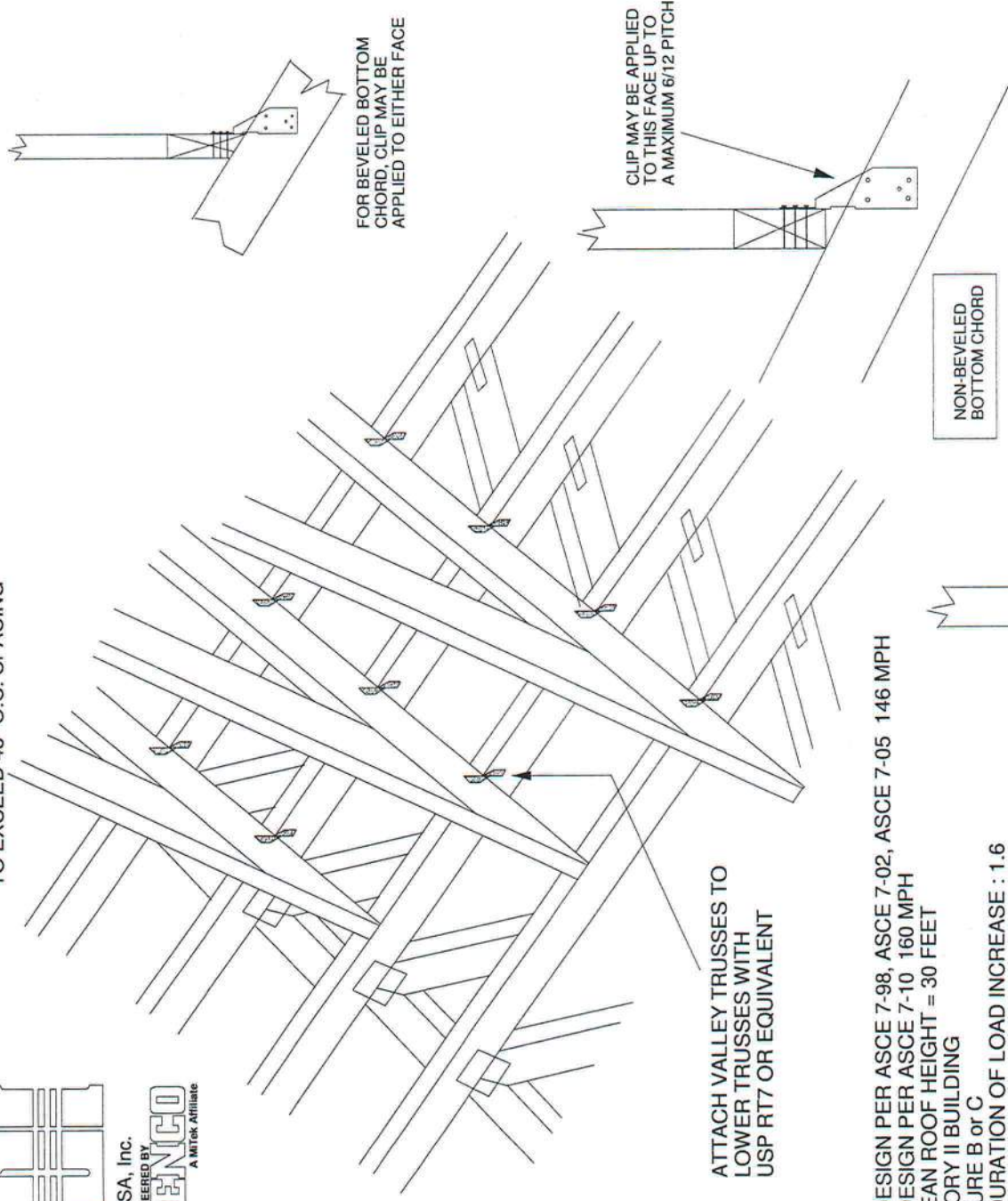


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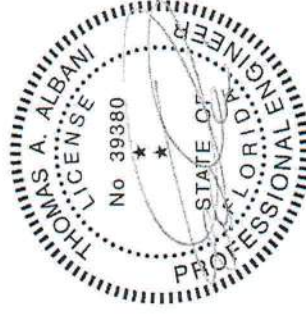
ATTACH VALLEY TRUSSES TO
LOWER TRUSSES WITH
USP RT7 OR EQUIVALENT

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.

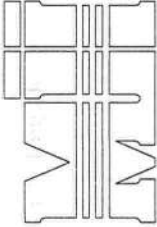


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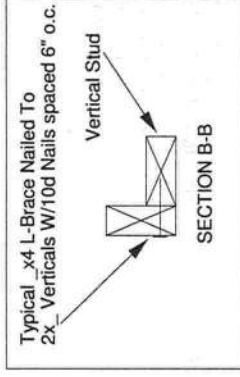
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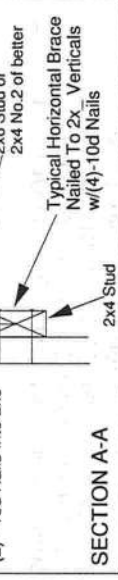
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SECTION B-B

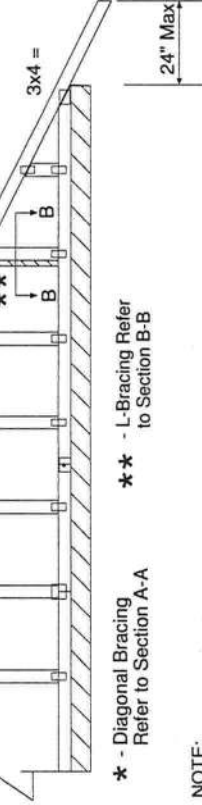
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.



SECTION A-A

12 Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA



★ - Diagonal Bracing Refer to Section A-A

★★ - L-Bracing Refer to Section B-B

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 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

Roof Sheathing

24" Max

Trusses @ 24" o.c.

Diag. Brace at 1/3 points if needed

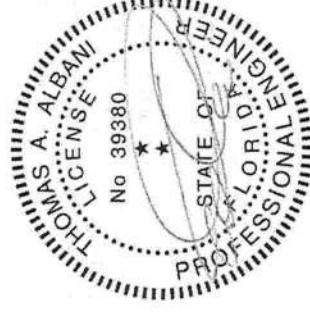
End Wall (SEE SECTION A-A)

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 L-braces attached to both edges. Fasten T and L braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 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.



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

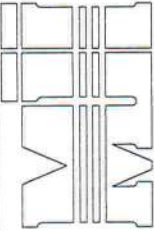
January 19, 2018

OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

(R)



MiTek USA, Inc.



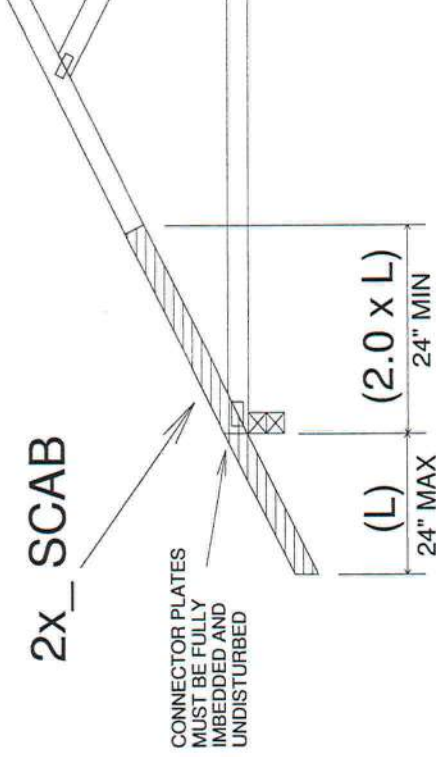
TRUSS CRITERIA:

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.

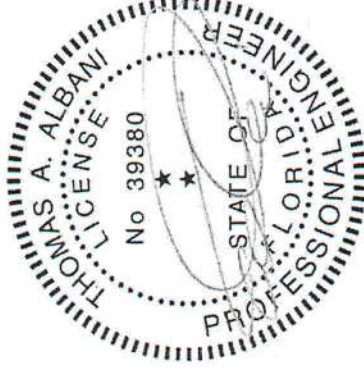
2x_ SCAB



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



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

February 12, 2018

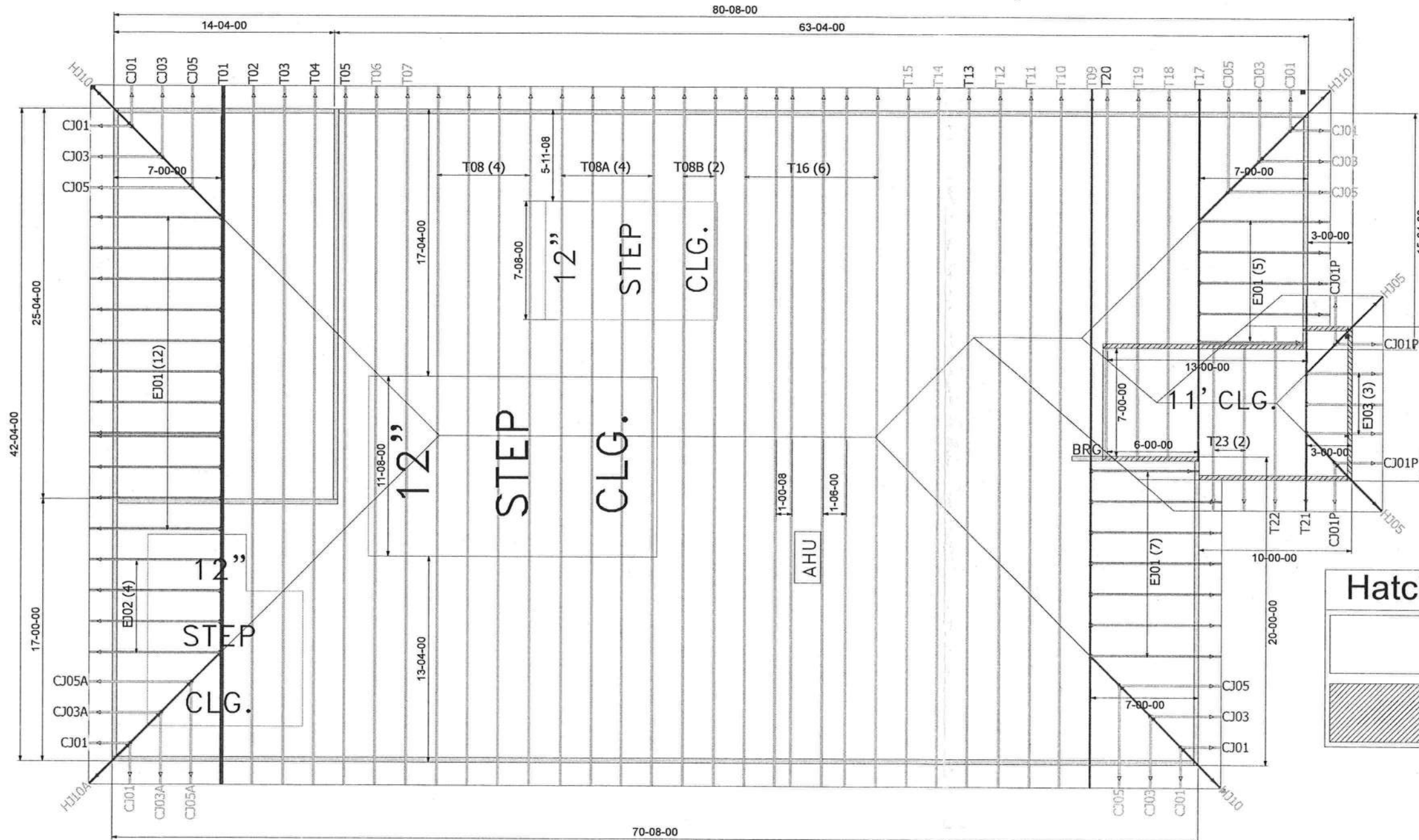
MII-STRGBCK

Page 1 of 1

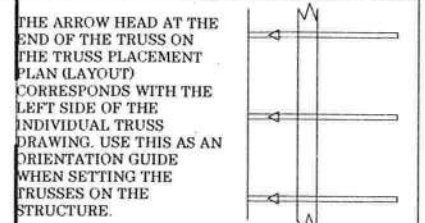
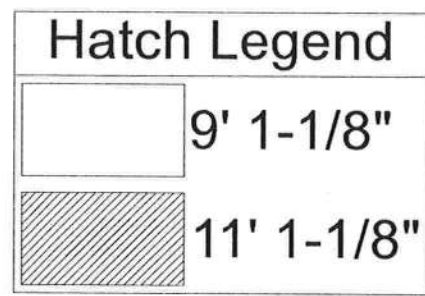


February 12, 2018

6/12 PITCH - 18" O/H



FRONT ENTRY
7/12 PITCH
24" O/H



General Notes:

- Per ANSI/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.
- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first.
850-835-4541

ACQ lumber is corrosive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City
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FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder:
AARON SIMQUE HOMES

Legal Address:
Lot 54 Preserve

Model:
2281

Date: 5-19-21	Drawn By: KLH	Original Ref #: 2802399
Floor 1 Job#: N/A	Floor 2 Job#: N/A	Roof Job #: 2802399