



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

RE: 3264809 - EXCEPTIONS REALITY - FT. WHITE SPEC

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: EXCEPTIONS REALITY Project Name: Spec Hse Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 179 SW Greenwood Terrace, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 28 individual, Truss Design Drawings and 0 Additional Drawings.

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

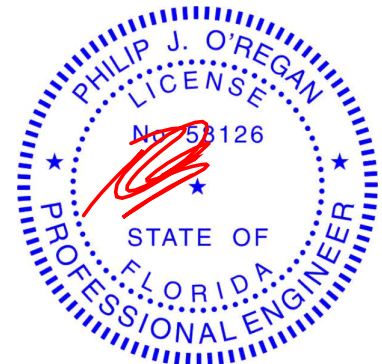
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T28494652	CJ01	8/10/22	23	T28494674	T13	8/10/22
2	T28494653	CJ02	8/10/22	24	T28494675	T14	8/10/22
3	T28494654	CJ03	8/10/22	25	T28494676	T15	8/10/22
4	T28494655	CJ04	8/10/22	26	T28494677	T16	8/10/22
5	T28494656	CJ05	8/10/22	27	T28494678	T16G	8/10/22
6	T28494657	EJ01	8/10/22	28	T28494679	V01	8/10/22
7	T28494658	EJ02	8/10/22				
8	T28494659	HJ01	8/10/22				
9	T28494660	HJ02	8/10/22				
10	T28494661	T01	8/10/22				
11	T28494662	T01G	8/10/22				
12	T28494663	T02	8/10/22				
13	T28494664	T03	8/10/22				
14	T28494665	T04	8/10/22				
15	T28494666	T05	8/10/22				
16	T28494667	T06	8/10/22				
17	T28494668	T07	8/10/22				
18	T28494669	T08	8/10/22				
19	T28494670	T09	8/10/22				
20	T28494671	T10	8/10/22				
21	T28494672	T11	8/10/22				
22	T28494673	T12	8/10/22				

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

Truss Design Engineer's Name: O'Regan, Philip

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

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



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

August 10, 2022

O'Regan, Philip

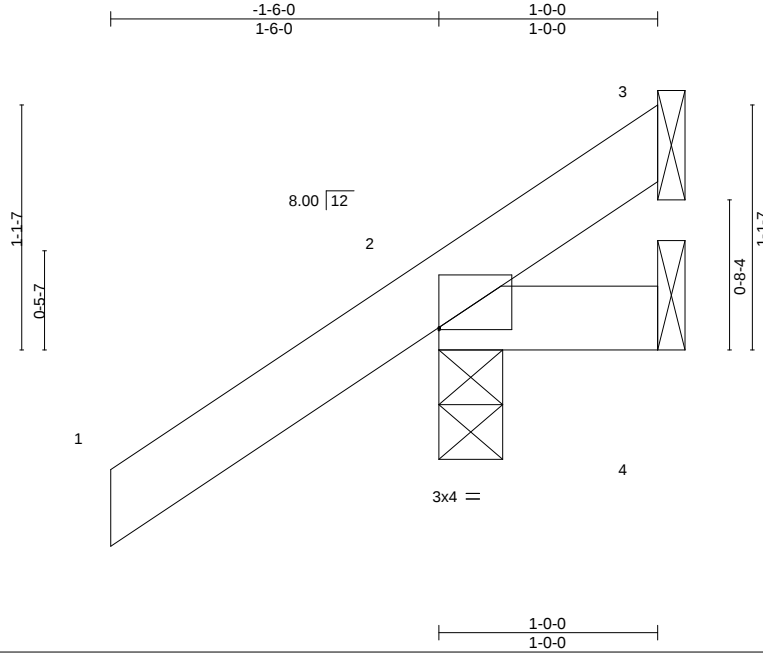
1 of 1

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	CJ01	Jack-Open	10	1	T28494652

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:19 2022 Page 1

ID:Aa9owwL25ANwAeINrEDGNyk16k-4oltsrNEK9GNVEIA8RHyZCzZ36eBuPg1Z?anQvypZA_



Scale = 1:10.5

Plate Offsets (X,Y)--		[2:0-0-0,0-0-2]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.18	Vert(LL) 0.00 7 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.05	Vert(CT) 0.00 7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP			
				Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

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

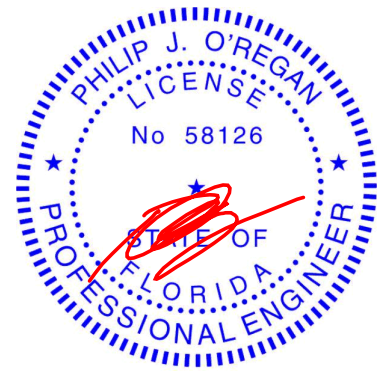
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=51(LC 12)
Max Uplift 3=5(LC 1), 2=63(LC 12), 4=22(LC 19)
Max Grav 3=5(LC 8), 2=179(LC 1), 4=20(LC 16)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 10,2022

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	CJ02	Jack-Open	8	1	T28494653

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

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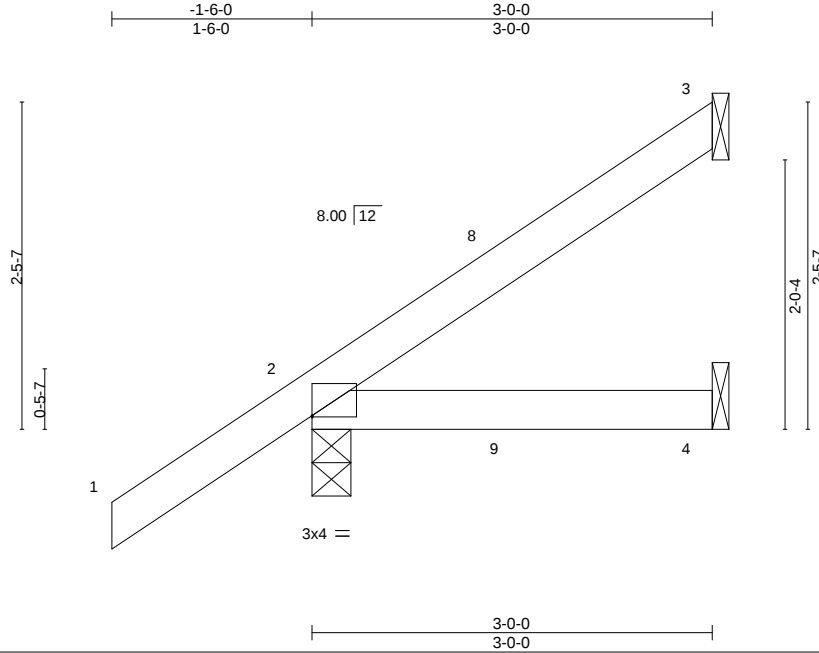


Plate Offsets (X,Y)--		[2:0-0-0,0-0-2]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.16	Vert(LL) 0.01 4-7 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT) -0.01 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

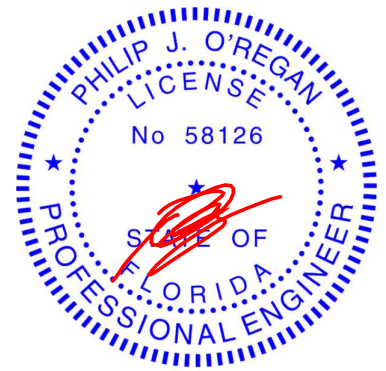
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=94(LC 12)
Max Uplift 3=-44(LC 12), 2=-45(LC 12), 4=-16(LC 9)
Max Grav 3=63(LC 19), 2=210(LC 1), 4=51(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 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.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 10,2022

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

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

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



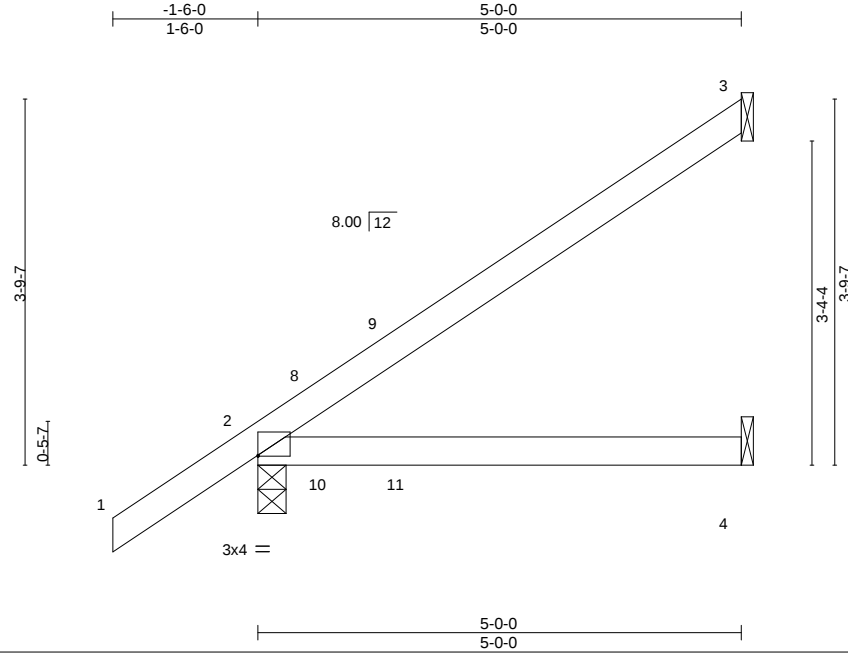
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	CJ03	Jack-Open	8	1	T28494654

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

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ID:Aa9owwL25ANwAelNlrEDGNyk16k-0BsdHXPUsmX5kYsYGsJQ2d2sDvE_MJAJOJ3tTnypZ9y



Scale: 1/2"=1'

Plate Offsets (X,Y)--		[2:0-0-0,0-0-2]	
LOADING (psf)	SPACING-	CSL.	DEFL.
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.35	Vert(LL) 0.08 4-7 >724 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) 0.07 4-7 >839 180
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP	Horz(CT) -0.01 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 19 lb FT = 20%

LUMBER-

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

BRACING-

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

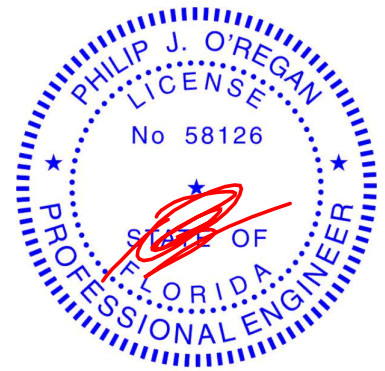
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=139(LC 12)
Max Uplift 3=-79(LC 12), 2=-44(LC 12), 4=-28(LC 9)
Max Grav 3=116(LC 19), 2=276(LC 1), 4=90(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Date:

August 10,2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	CJ04	Jack-Open	2	1	T28494655

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

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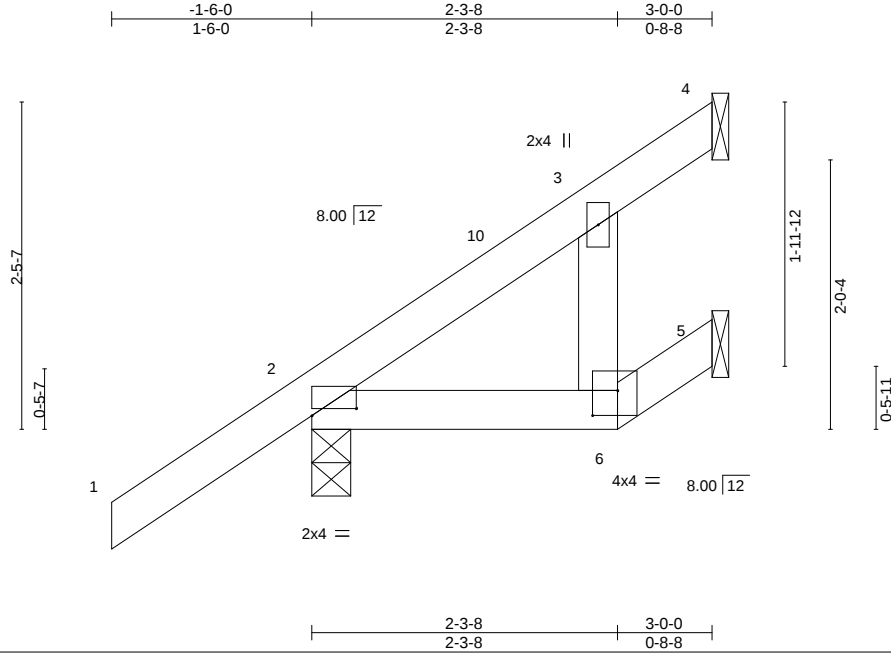


Plate Offsets (X,Y)-- [2:0-4-0,0-0-10], [6:0-2-4,0-2-4]

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.16	Vert(LL)	0.01	6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT)	-0.01	6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP						Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

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

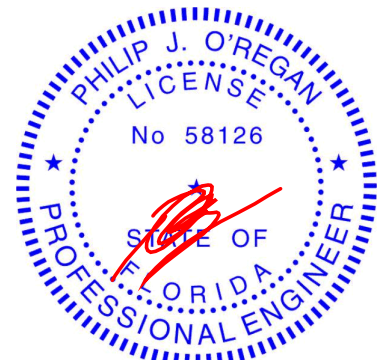
REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=94(LC 12)
Max Uplift 4=43(LC 12), 2=45(LC 12)
Max Grav 4=88(LC 19), 2=210(LC 1), 5=13(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 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.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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



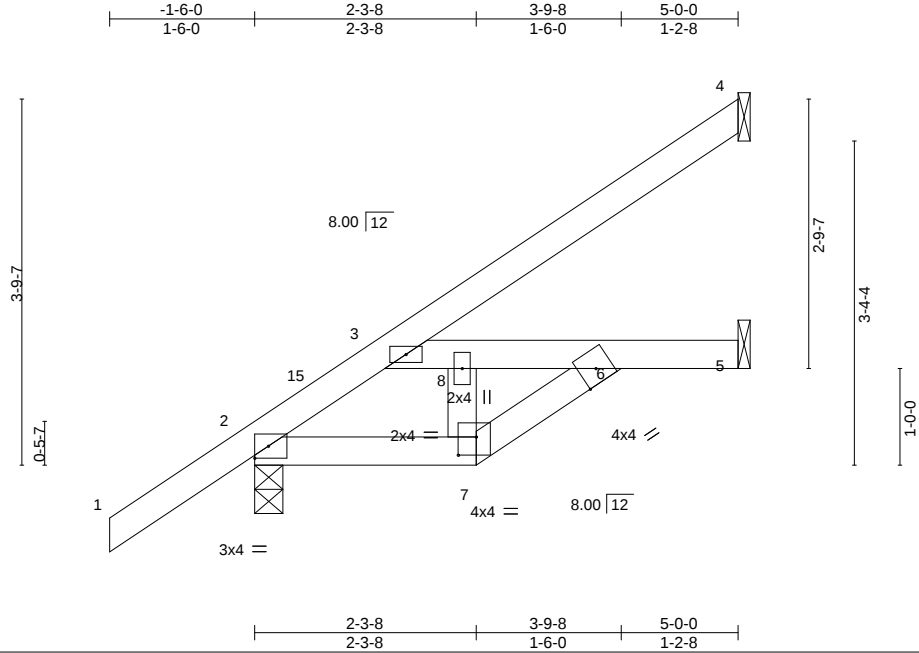
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	CJ05	Jack-Open	2	1	T28494656

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:23 2022 Page 1

ID:Aa9owwL25ANwAeINrEDGNyk16k-ya_OiDQkONnozs0xNHMu727FbjxBqDBcTcY_YgypZ9w



Scale: 1/2"=1'

Plate Offsets (X,Y)--		[7:0-2-4,0-2-4]	
LOADING (psf)	SPACING-	CSL.	DEFL.
TCLL 20.0	Plate Grip DOL 1.25	TC 0.15	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.30	Vert(LL) -0.02 6-8 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Vert(CT) -0.03 6-8 >999 180
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP	Horz(CT) 0.01 5 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 24 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

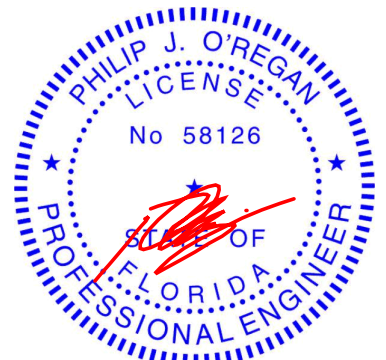
(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=139(LC 12)
Max Uplift 4=-53(LC 12), 2=-37(LC 12), 5=-19(LC 12)
Max Grav 4=88(LC 19), 2=299(LC 1), 5=144(LC 3)

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

TOP CHORD 3-10=-259/6
BOT CHORD 6-7=-150/275

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-4-2, Interior(1) 1-4-2 to 4-11-4 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.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 10,2022

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



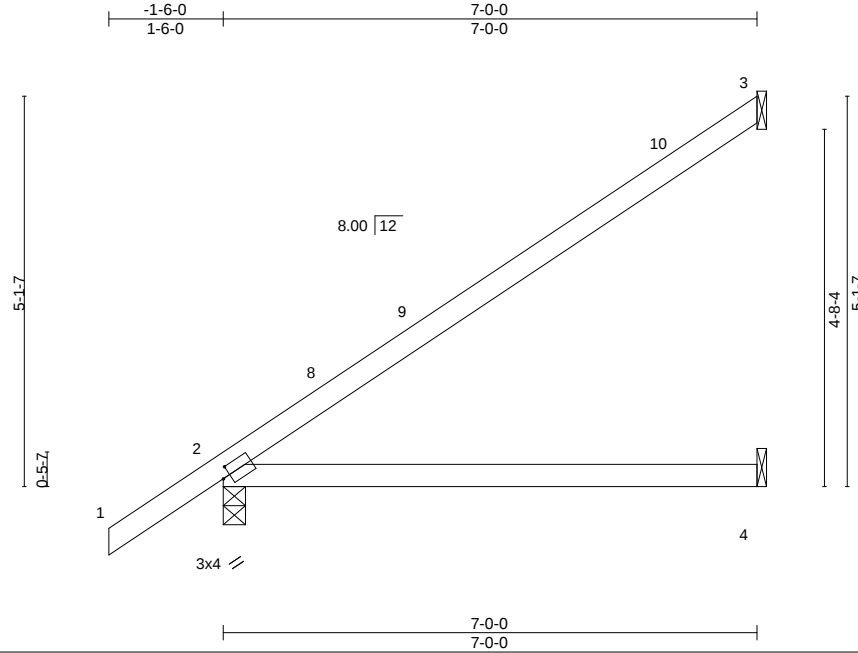
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	EJ01	Jack-Partial	24	1	T28494657

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:24 2022 Page 1

ID:Aa9owwL25ANwAeINrEDGNyk16k-RmYmvZRN9hvf0a7x_t7gFgld7DpZgvmiGHY46ypZ9v



Scale = 1:30.2

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

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	0.11	4-7	>736	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.22	4-7	>372	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

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

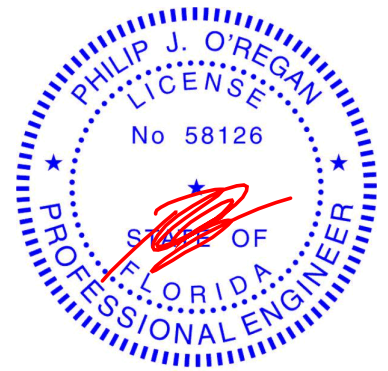
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=177(LC 12)
Max Uplift 3=-101(LC 12), 2=-50(LC 12), 4=-1(LC 12)
Max Grav 3=173(LC 19), 2=346(LC 1), 4=127(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone;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) 2, 4 except (jt=lb) 3=101.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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



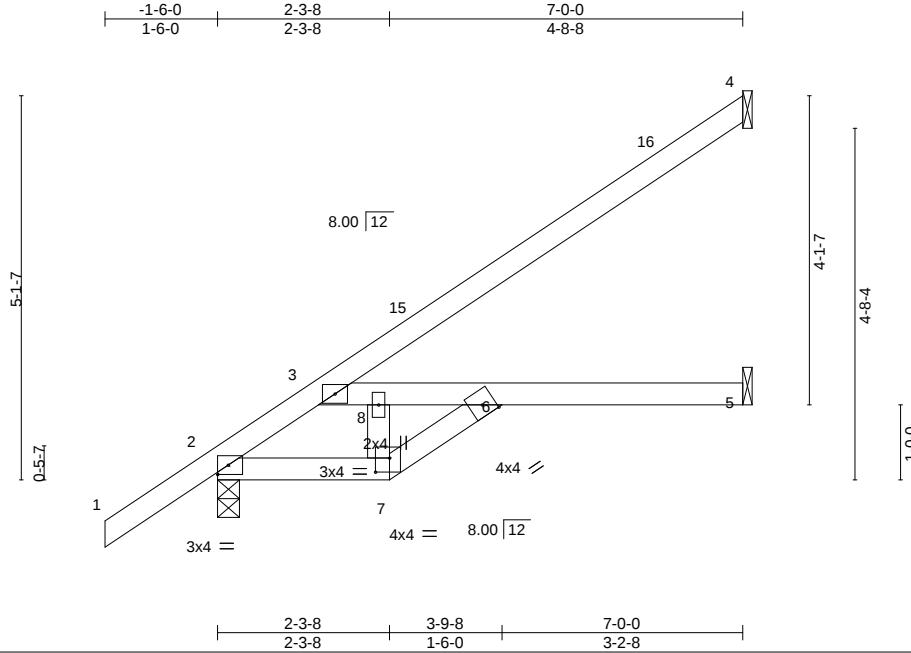
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	EJ02	Jack-Partial	3	1	T28494658

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:25 2022 Page 1

ID:Aa9owwL25ANwAeINlrEDGNyk16k-vy687vS?w?1WD99JVhOMDTDXfWW?17Vvxw15cYypZ9u



Scale = 1:30.7

Plate Offsets (X,Y)--		[7:0-2-4,0-2-4]	
LOADING (psf)	SPACING-	CSL.	DEFL.
TCLL 20.0	Plate Grip DOL 1.25	TC 0.43	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.73	Vert(LL) 0.10 5-6 >831 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Vert(CT) -0.21 5-6 >399 180
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.05 5 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 31 lb FT = 20%

LUMBER-

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

REACTIONS.

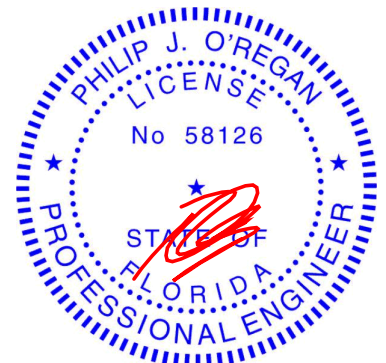
(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=177(LC 12)
Max Uplift 4=-76(LC 12), 2=-41(LC 12), 5=-21(LC 12)
Max Grav 4=145(LC 19), 2=377(LC 1), 5=162(LC 3)

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

TOP CHORD 3-10=-407/27
BOT CHORD 2-7=-217/370, 6-7=-225/387, 3-8=-370/217, 6-8=-345/196

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-4-2, Interior(1) 1-4-2 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) 4, 2, 5.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Date:

August 10,2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	HJ01	Diagonal Hip Girder	4	1	T28494659

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:26 2022 Page 1

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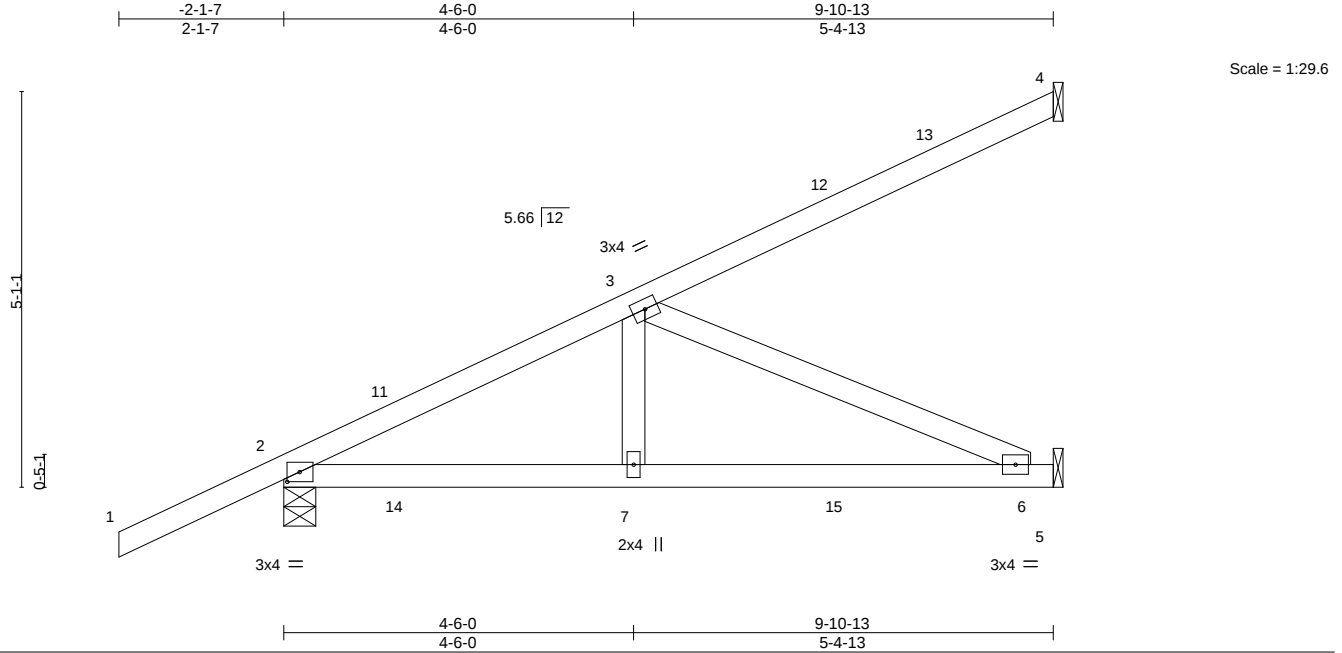


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.08	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.12	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 46 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-1-3 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=177(LC 8)
Max Uplift 4=-91(LC 8), 2=-242(LC 8), 5=-187(LC 5)
Max Grav 4=149(LC 1), 2=529(LC 1), 5=299(LC 1)

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

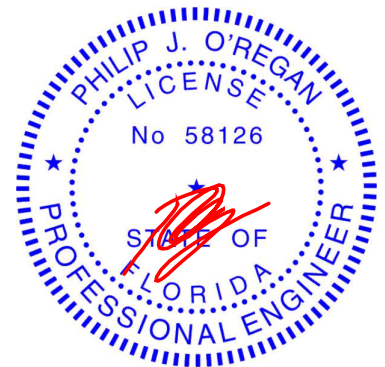
TOP CHORD 2-3=-648/325
BOT CHORD 2-7=-383/552, 6-7=-383/552
WEBS 3-7=-91/287, 3-6=-603/418

NOTES- (9)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 (jt=lb) 2=242, 5=187.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-5-12, 59 lb down and 73 lb up at 1-5-12, 75 lb down and 46 lb up at 4-3-11, 75 lb down and 46 lb up at 4-3-11, and 102 lb down and 91 lb up at 7-1-10, and 102 lb down and 91 lb up at 7-1-10 on top chord, and 41 lb down and 51 lb up at 1-5-12, 41 lb down and 51 lb up at 1-5-12, 19 lb down and 24 lb up at 4-3-11, 19 lb down and 24 lb up at 4-3-11, and 41 lb down and 43 lb up at 7-1-10, and 41 lb down and 43 lb up at 7-1-10 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).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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



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Continued on page 2

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	HJ01	Diagonal Hip Girder	4	1	T28494659
Job Reference (optional)					

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:26 2022 Page 2
ID:Aa9owwL25ANwAeINlrEDGNyk16k-N9gWKFTdhI9NqJkW2PvblglftwuL1VX2Aame8?ypZ9t

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-3(F=-2, B=-2) 12=-74(F=-37, B=-37) 15=-58(F=-29, B=-29)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	HJ02	Diagonal Hip Girder	1	1	T28494660

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:28 2022 Page 2
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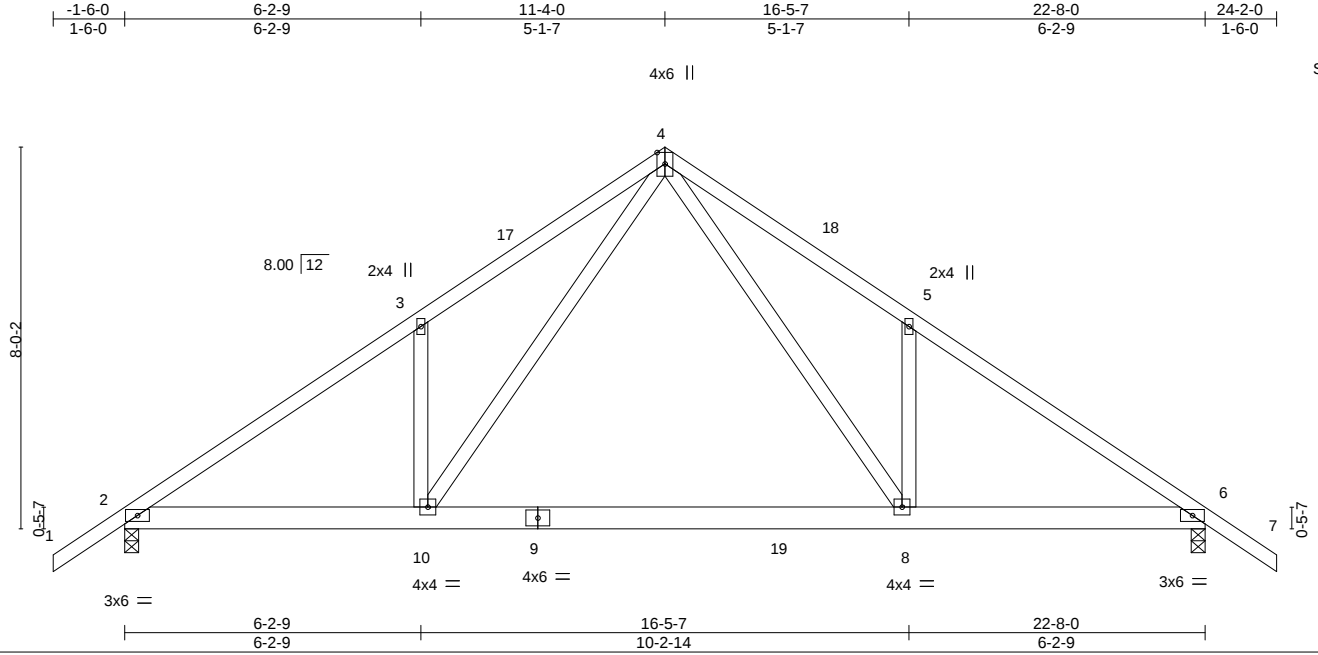
LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-5=-54, 10-12=-20, 8-10=-20, 6-8=-20
Concentrated Loads (lb)
Vert: 4=-37(F=-18, B=-18) 18=-15(F=-8, B=-8) 22=-167(F=-83, B=-83)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T01	Common	10	1	T28494661

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:29 2022 Page 1

ID:Aa9owwL25ANwAeINrEDGNyk16k-njLfYGVV_DXyhnT5kXTINJNC28pkEpZVsY?JIKypZ9q



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	-0.24	8-10	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.99	Vert(CT)	-0.46	8-10	>597		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.55	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 137 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-183(LC 10)
Max Uplift 2=-266(LC 12), 6=-266(LC 13)
Max Grav 2=1348(LC 19), 6=1347(LC 20)

FORCES.

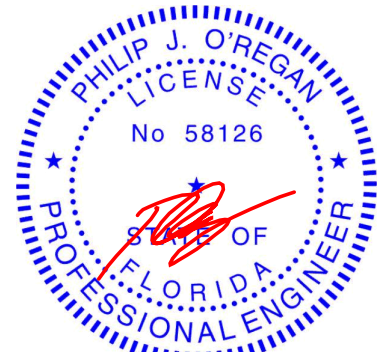
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2071/372, 3-4=-2104/524, 4-5=-2102/525, 5-6=-2069/372
BOT CHORD 2-10=-319/1773, 8-10=-125/1052, 6-8=-225/1666
WEBS 4-8=-348/1287, 5-8=-309/231, 4-10=-348/1290, 3-10=-309/231

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-4-0, Exterior(2R) 11-4-0 to 14-4-0, Interior(1) 14-4-0 to 24-2-0 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 (jt=lb) 2=266, 6=266.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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



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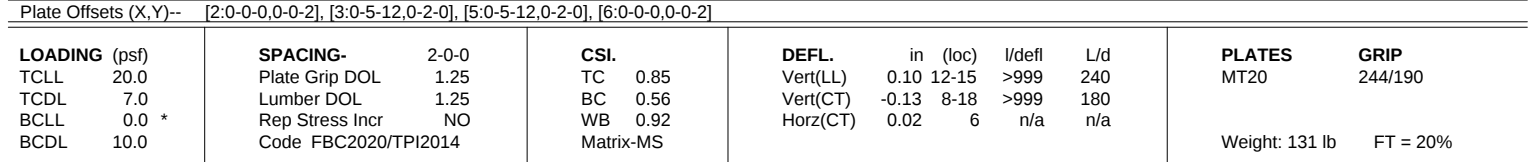
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:32 2022 Page 1
ID:Aa9owwL25ANwAeINlrEDGNyK16k-Ci1nblXOG8vXYECfPg0??x?cLLyHR4WxYWDzMeypZ9n
-1-6-0 7-0-0 12-7-0 25-2-0 26-8-0
1-6-0 7-0-0 5-7-0 5-7-0 7-0-0 1-6-0
Scale = 1:45.9



REACTIONS. (size) 2=0-3-8, 9=0-3-8, 6=0-3-8
 Max Horz 2=-122(LC 6)
 Max Uplift 2=-309(LC 8), 9=-1086(LC 5), 6=-275(LC 9)
 Max Grav 2=828(LC 1), 9=2387(LC 1), 6=714(LC 1)

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

TOP CHORD	2-3=-999/411, 4-5=-238/350, 5-6=-798/350
BOT CHORD	2-12=-339/745, 10-12=-346/762, 8-9=-180/595, 6-8=-175/579
WEBS	3-12=-239/671, 3-10=-913/486, 4-10=-294/708, 4-9=-1462/750, 5-9=-1047/475, 5-8=-185/656

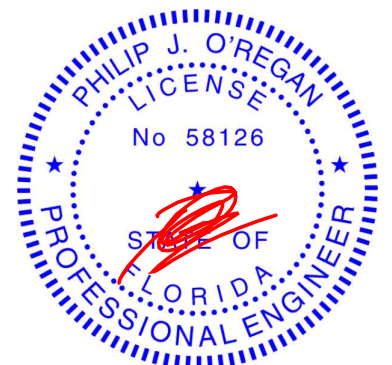
NOTES- (10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left 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=309, 9=1086, 6=275.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down and 211 lb up at 7-0-0, 127 lb down and 106 lb up at 9-0-12, 127 lb down and 106 lb up at 11-0-12, 127 lb down and 99 lb up at 12-7-0, 127 lb down and 106 lb up at 14-1-4, and 127 lb down and 106 lb up at 16-1-4, and 230 lb down and 211 lb up at 18-2-0 on top chord, and 335 lb down and 237 lb up at 7-0-0, 87 lb down and 21 lb up at 9-0-12, 87 lb down and 21 lb up at 11-0-12, 87 lb down and 21 lb up at 12-7-0, 87 lb down and 21 lb up at 14-1-4, and 87 lb down and 21 lb up at 16-1-4, and 335 lb down and 237 lb up at 18-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634

LOAD CASE(S) Standard Date:



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

August 10, 2022

Continued on page 2

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

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

MiTek
16023 Swingline Ridge Rd
Chestersfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T02	Hip Girder	1	1	T28494663

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:32 2022 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 3=-183(F) 5=-183(F) 12=-335(F) 4=-110(F) 8=-335(F) 19=-110(F) 20=-110(F) 21=-110(F) 22=-110(F) 23=-64(F) 24=-64(F) 25=-64(F) 26=-64(F) 27=-64(F)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T03	HALF HIP GIRDER	1	2	T28494664

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:34 2022 Page 1

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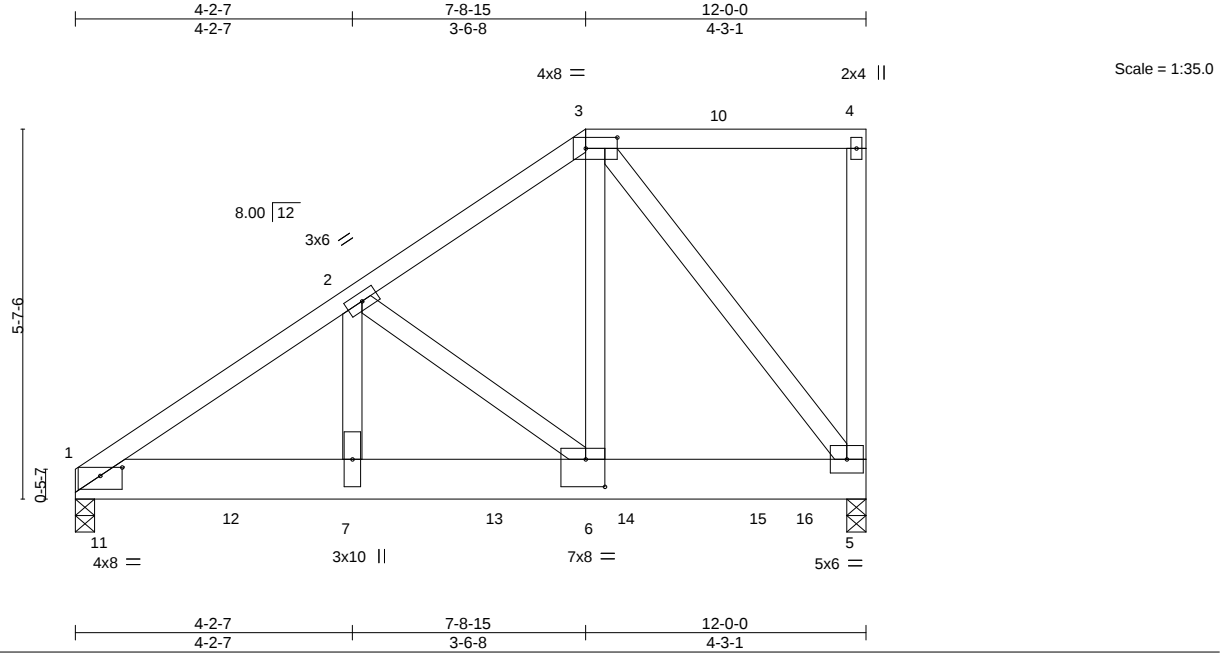


Plate Offsets (X,Y)-- [1:0-4-0,0-1-9], [3:0-5-12,0-2-0], [6:0-3-8,0-5-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.19	Vert(LL)	-0.03	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.23	Vert(CT)	-0.06	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.70	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 180 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 5=0-3-8
Max Horz 1=173(LC 27)
Max Uplift 1=-753(LC 8), 5=-870(LC 8)
Max Grav 1=3889(LC 1), 5=4257(LC 1)

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

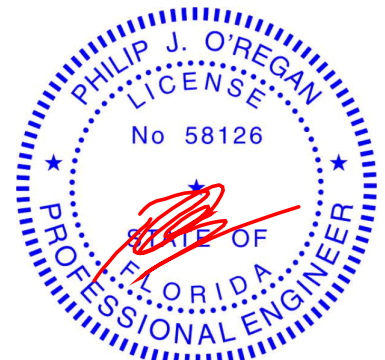
TOP CHORD 1-2=-4357/837, 2-3=-2426/475
BOT CHORD 1-7=-812/3601, 6-7=-812/3601, 5-6=-445/2072
WEBS 2-7=-392/2096, 2-6=-2046/486, 3-6=-728/3696, 3-5=-3289/706

NOTES- (11)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 1=753, 5=870.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1033 lb down and 215 lb up at 0-4-12, 1027 lb down and 216 lb up at 2-4-12, 1027 lb down and 216 lb up at 4-4-12, 1027 lb down and 216 lb up at 6-4-12, 1027 lb down and 216 lb up at 8-4-12, and 1063 lb down and 221 lb up at 10-4-12, and 1066 lb down and 218 lb up at 11-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Continued on page 2



Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 10,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T03	HALF HIP GIRDER	1	2	T28494664

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

8.530 s Jul 18 2022 MiTek Industries, Inc.
Tue Aug 9 14:01:34 2022
Page 2
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LOAD CASE(S)
Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-1027(F) 11=-1033(F) 12=-1027(F) 13=-1027(F) 14=-1027(F) 15=-1063(F) 16=-1066(F)

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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T04	Hip Girder	1	1	T28494665

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Jul 18 2022 MiTek Industries, Inc.
Tue Aug 9 14:01:36 2022
Page 2
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LOAD CASE(S)
Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 7-10=-54, 14-17=-20

Concentrated Loads (lb)

Vert: 4=-183(B) 7=-183(B) 12=-64(B) 13=-335(B) 11=-335(B) 20=-110(B) 21=-110(B) 22=-110(B) 23=-110(B) 24=-110(B) 25=-110(B) 26=-110(B) 27=-64(B)

28=-64(B) 29=-64(B) 30=-64(B) 31=-64(B) 32=-64(B)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T05	Hip	1	1	T28494666

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

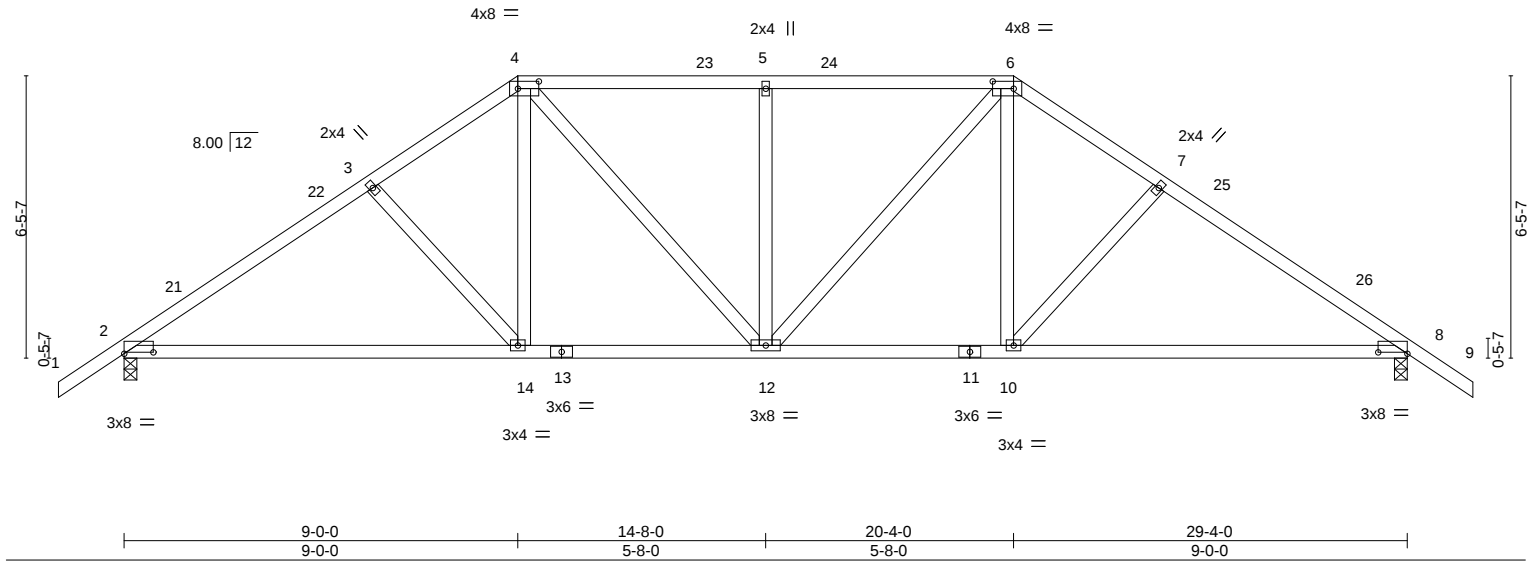
8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:37 2022 Page 1

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Job Reference (optional)

-1-6-0	5-8-3	9-0-0	14-8-0	20-4-0	23-7-13	29-4-0	30-10-0
1-6-0	5-8-3	3-3-13	5-8-0	5-8-0	3-3-13	5-8-3	1-6-0

Scale = 1:52.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.15 14-20 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.31 14-20 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 163 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

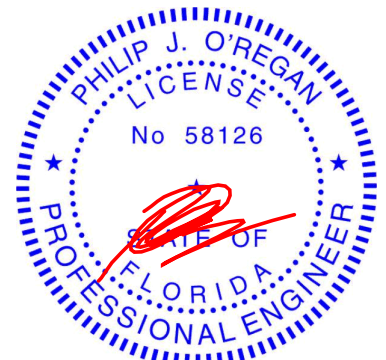
(size) 8=0-3-8, 2=0-3-8
Max Horz 2=150(LC 11)
Max Uplift 8=247(LC 13), 2=247(LC 12)
Max Grav 8=1166(LC 1), 2=1166(LC 1)

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

TOP CHORD 2-3=-1593/324, 3-4=-1399/316, 4-5=-1314/291, 5-6=-1314/291, 6-7=-1399/316,
7-8=-1593/324
BOT CHORD 2-14=-265/1262, 12-14=-184/1117, 10-12=-103/1117, 8-10=-164/1262
WEBS 3-14=-253/157, 4-14=-71/401, 4-12=-157/367, 5-12=-355/165, 6-12=-158/367,
6-10=-71/401, 7-10=-253/157

NOTES- (8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 20-4-0, Exterior(2R) 20-4-0 to 24-6-15, Interior(1) 24-6-15 to 30-10-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=247, 2=247.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

August 10,2022

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

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



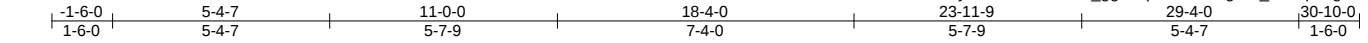
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC	T28494667
3264809	T06	Hip	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:38 2022 Page 1

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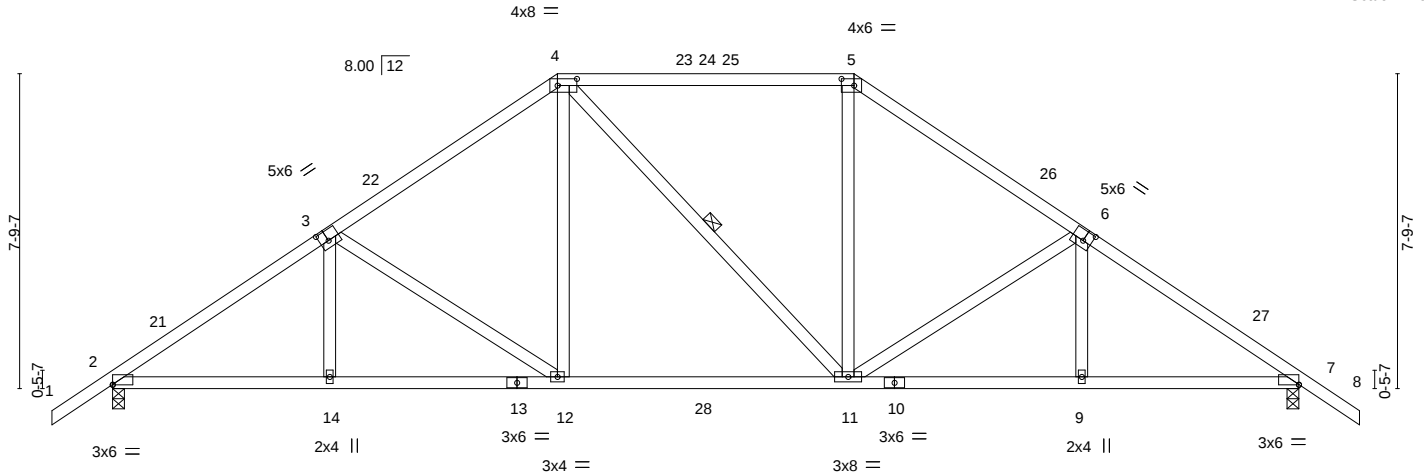


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [3:0-2-8,0-3-0], [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [6:0-2-8,0-3-0], [7:0-0-0,0-0-2]

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)	-0.12 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.21 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.06 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 166 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11

REACTIONS.

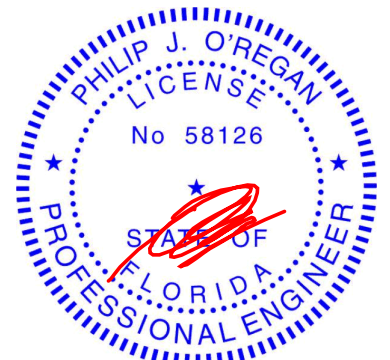
(size) 7=0-3-8, 2=0-3-8
Max Horz 2=-179(LC 10)
Max Uplift 7=-243(LC 13), 2=-243(LC 12)
Max Grav 7=1247(LC 2), 2=1253(LC 2)

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

TOP CHORD 2-3=-1791/316, 3-4=-1428/282, 4-5=-1126/283, 5-6=-1415/282, 6-7=-1781/317
BOT CHORD 2-14=-289/1513, 12-14=-288/1518, 11-12=-130/1137, 9-11=-168/1437, 7-9=-169/1432
WEBS 3-12=-461/187, 4-12=-58/524, 5-11=-52/487, 6-11=-463/188

NOTES- (8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 18-4-0, Exterior(2R) 18-4-0 to 22-6-15, Interior(1) 22-6-15 to 30-10-0 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 (jt=lb) 7=243, 2=243.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

August 10,2022

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC	T28494668
3264809	T07	Hip	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:40 2022 Page 1

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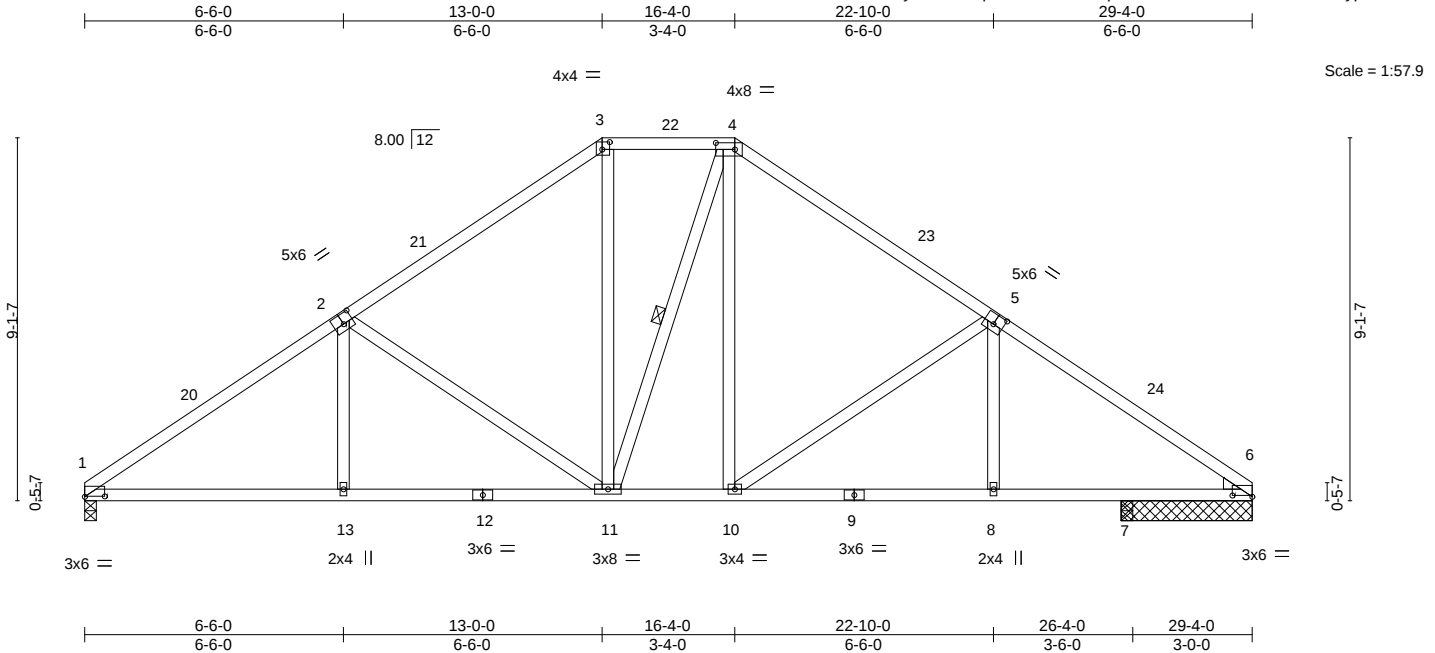


Plate Offsets (X,Y)-- [1:0-6-0,0-0-2], [2:0-3-0,0-3-0], [3:0-2-4,0-2-4], [4:0-5-12,0-2-0], [5:0-3-0,0-3-0], [6:0-6-0,0-0-6]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.08	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.18	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.06	14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 170 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11

REACTIONS.

All bearings 3-3-8 except (jt=length) 1=0-3-8, 7=0-3-8.

(lb) - Max Horz 1=-186(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 6=-172(LC 13), 1=-205(LC 12)

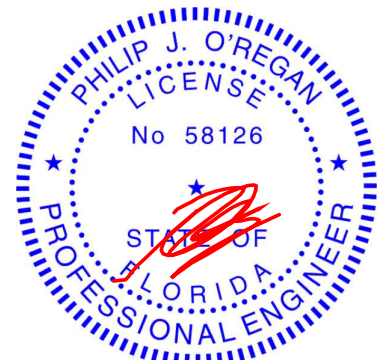
Max Grav All reactions 250 lb or less at joint(s) 7 except 6=964(LC 1), 1=1071(LC 1), 6=964(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1617/307, 2-3=-1167/262, 3-4=-883/270, 4-5=-1163/262, 5-6=-1538/279
BOT CHORD 1-13=-302/1278, 11-13=-302/1281, 10-11=-79/880, 8-10=-151/1207, 7-8=-152/1206,
6-7=-152/1206
WEBS 2-13=0/279, 2-11=-511/235, 3-11=-91/364, 4-10=-90/352, 5-10=-425/211

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-4-0, Exterior(2R) 16-4-0 to 20-6-15, Interior(1) 20-6-15 to 29-4-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 6=172, 1=205, 6=172.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

August 10, 2022

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

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



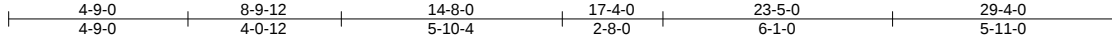
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T08	Roof Special	2	1	T28494669

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:41 2022 Page 1

ID:Aa9owwL25ANwAeINrEDGNyk16k-R14BUNe19v2F7dOOR3g6stGVzy82EVGcQvxAdypZ9e



4x4 =

Scale = 1:61.0

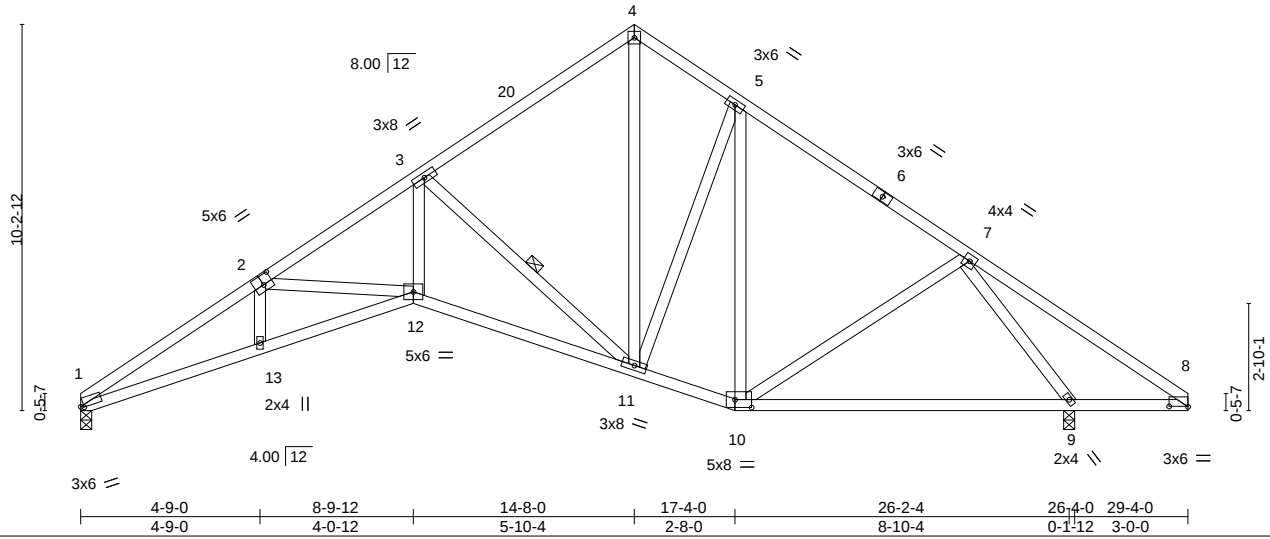


Plate Offsets (X,Y)-- [1:0-1-0,0-0-7], [2:0-3-0,0-3-0], [8:0-6-0,0-0-2], [10:0-5-4,0-2-8]

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL)	-0.19	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.83	Vert(CT)	-0.39	9-10	>819	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT)	0.19	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 175 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-11

REACTIONS.

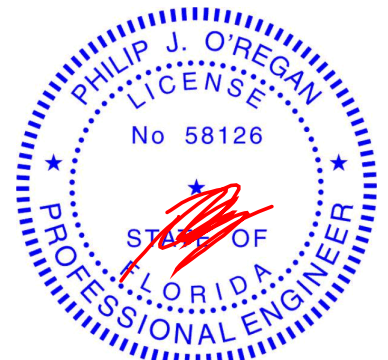
(size) 1=0-3-8, 9=0-3-8
Max Horz 1=-209(LC 8)
Max Uplift 1=-184(LC 12), 9=-224(LC 13)
Max Grav 1=960(LC 1), 9=1211(LC 1)

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

TOP CHORD 1-2=-2528/572, 2-3=-2208/491, 3-4=-924/234, 4-5=-882/274, 5-7=-940/230
BOT CHORD 1-13=-581/2207, 12-13=-583/2225, 11-12=-409/1901, 10-11=-71/745, 9-10=-79/559
WEBS 3-12=-301/1434, 3-11=-1475/441, 4-11=-202/721, 7-9=-1185/360

NOTES- (8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-5-12, Interior(1) 17-5-12 to 29-4-0 zone; cantilever 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.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=184, 9=224.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Date:

August 10,2022

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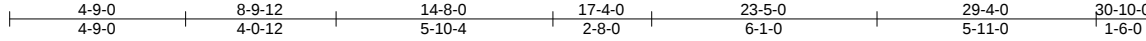
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T09	Roof Special	3	1	T28494670

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:42 2022 Page 1

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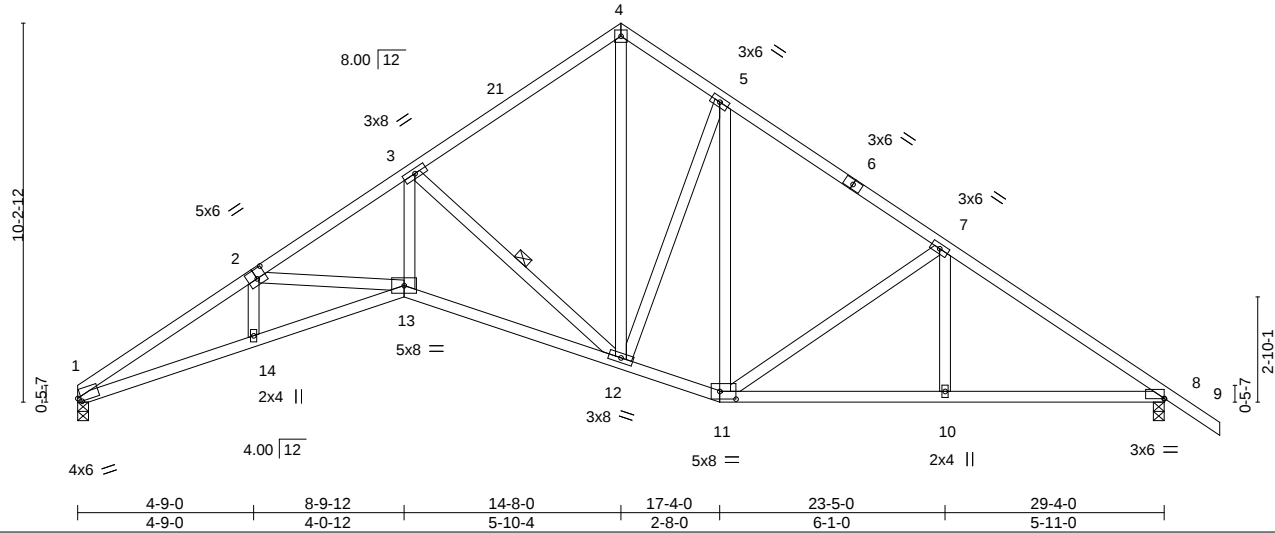


Plate Offsets (X,Y)-- [1:0-1-1,0-1-5], [2:0-3-0,0-3-0], [8:Edge,0-0-2], [11:0-5-4,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51	Vert(LL)	-0.19 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.98	Vert(CT)	-0.35 12-13	>996	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT)	0.24 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 176 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-12

REACTIONS.

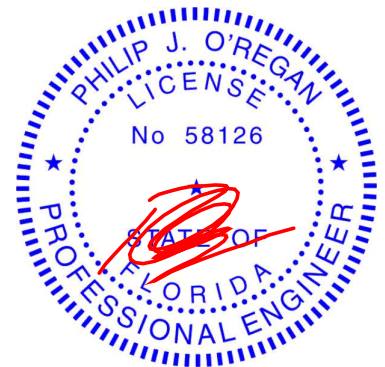
(size) 1=0-3-8, 8=0-3-8
Max Horz 1=-223(LC 10)
Max Uplift 1=-201(LC 12), 8=-232(LC 13)
Max Grav 1=1083(LC 1), 8=1168(LC 1)

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

TOP CHORD 1-2=-2901/607, 2-3=-2618/530, 3-4=-1166/284, 4-5=-1123/305, 5-7=-1248/283,
7-8=-1641/292
BOT CHORD 1-14=-597/2499, 13-14=-598/2522, 12-13=-427/2220, 11-12=-94/1025, 10-11=-150/1298,
8-10=-150/1298
WEBS 3-13=-312/1627, 3-12=-1638/451, 4-12=-244/987, 5-12=-264/240, 7-11=-431/195,
7-10=0/259

NOTES- (8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-5-12, Interior(1) 17-5-12 to 30-10-0 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.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=201, 8=232.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Date:

August 10,2022

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

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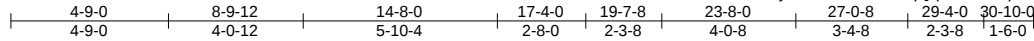
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T10	Roof Special	3	1	T28494671

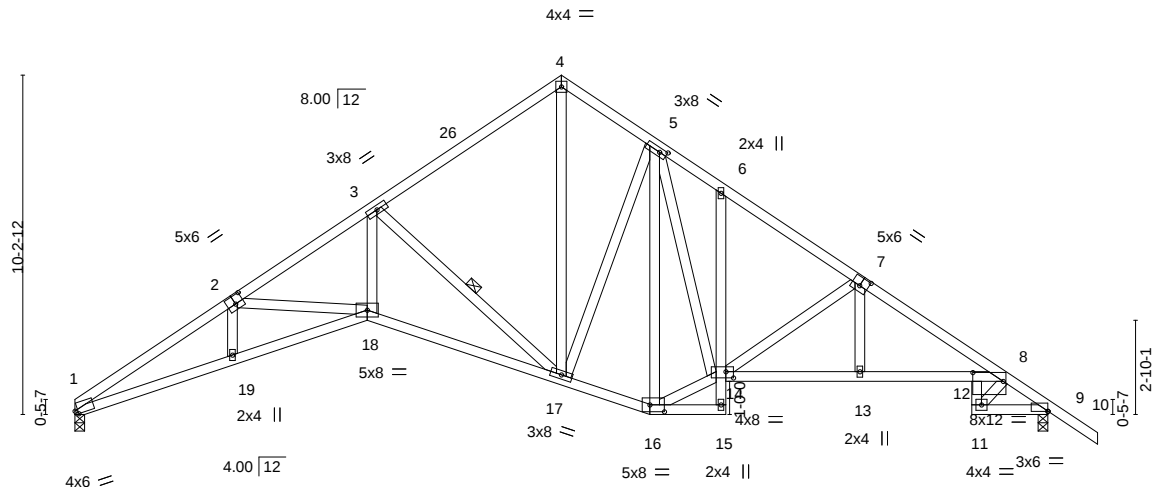
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:44 2022 Page 1

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Scale = 1:69.5



Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC	T28494672
3264809	T11	Common	4	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:45 2022 Page 1

ID:Aa9owwL25ANwAeINlrEDGNyk16k-JoJiJkiYC8YhcEh9gul20h2qaaKc_6orX2t9JOypZ9a

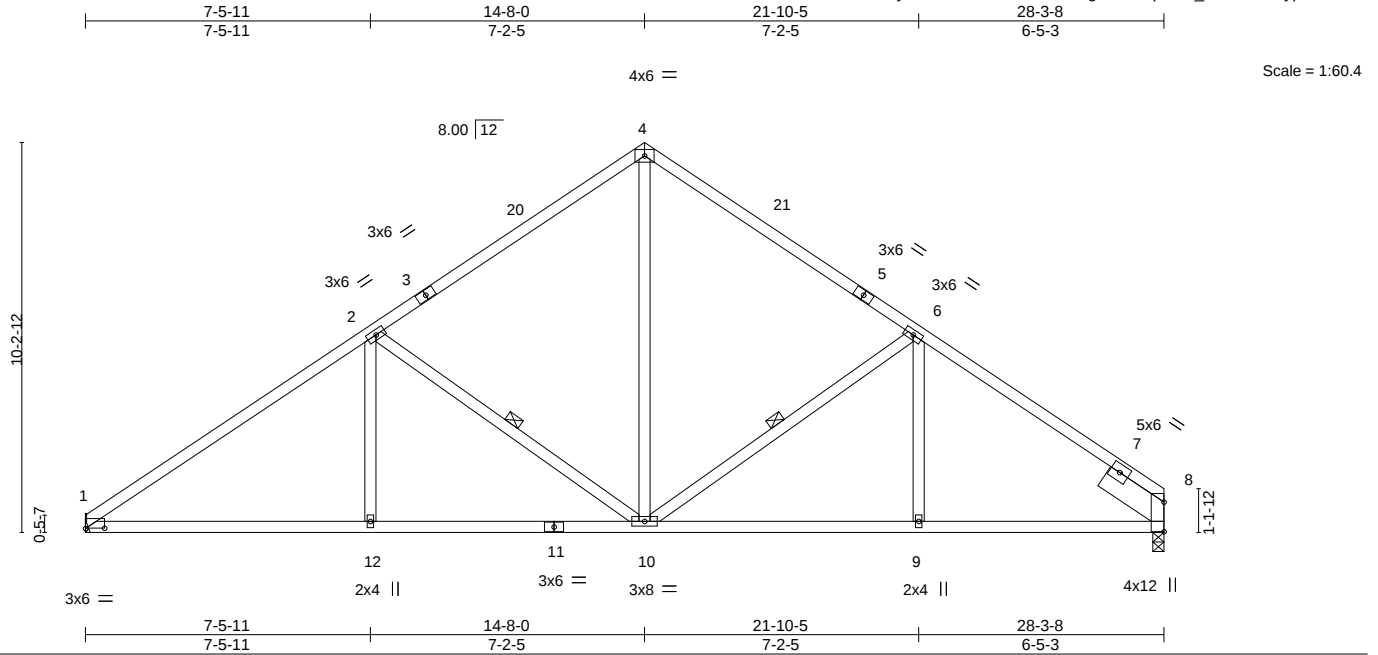


Plate Offsets (X,Y)-- [1:0-6-0,0-0-2]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.88	Vert(LL) -0.11	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.79	Vert(CT) -0.24	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.11	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 153 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-10, 6-10

REACTIONS.

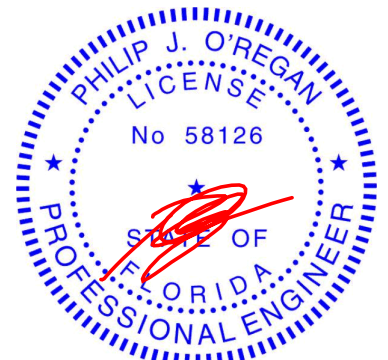
(size) 1=Mechanical, 8=0-3-8
Max Horz 1=207(LC 9)
Max Uplift 1=196(LC 12), 8=189(LC 13)
Max Grav 1=1047(LC 1), 8=1047(LC 1)

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

TOP CHORD 1-2=-1537/282, 2-4=-1045/269, 4-6=-1034/266, 6-8=-1347/260
BOT CHORD 1-12=-297/1204, 10-12=-297/1204, 9-10=-147/1042, 8-9=-147/1042
WEBS 2-12=0/301, 2-10=-559/265, 4-10=-146/658, 6-10=-384/227

NOTES- (8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 28-3-8 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=196, 8=189.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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August 10, 2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC	T28494673
3264809	T12	Half Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:48 2022 Page 1

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Scale = 1:50.9

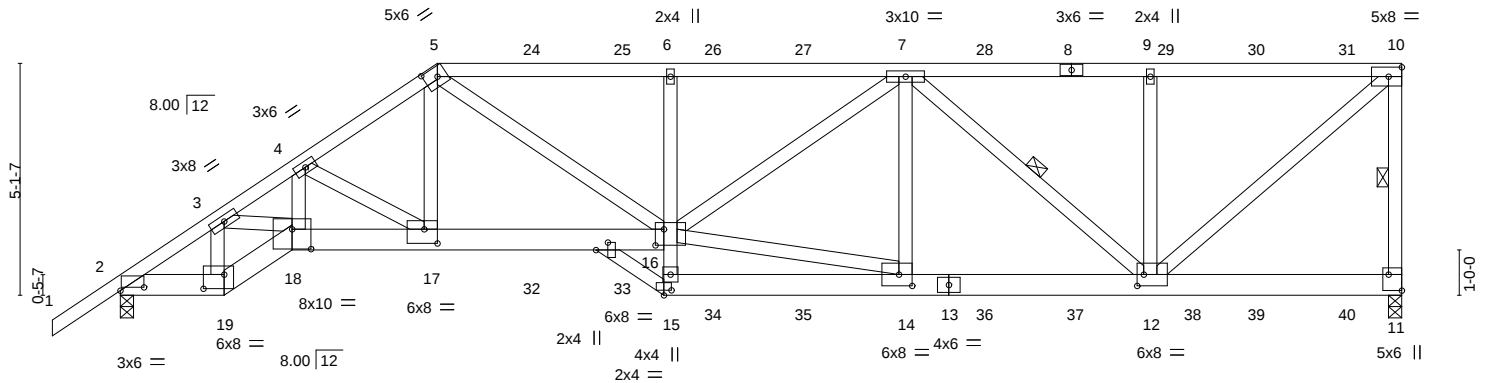


Plate Offsets (X,Y)--	[2:0-6-4,0-0-14], [5:0-3-8,0-2-8], [11:Edge,0-3-8], [12:0-1-12,0-3-0], [14:0-3-8,0-3-0], [15:0-2-0,0-1-5], [16:0-2-4,0-4-4], [17:0-3-8,0-3-12], [18:0-5-0,0-5-4], [19:0-5-8,0-3-12], [20:0-2-0,0-3-2]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.99	Vert(LL) 0.23	16-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.98	Vert(DOL) -0.42	16-17	>803	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.93	Horz(CT) 0.17	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 204 lb	FT = 20%

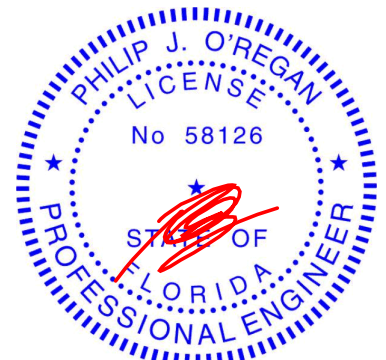
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-15,15-20: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
14-16,7-12,10-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-10 oc bracing.
WEBS 1 Row at midpt 10-11, 7-12

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=185(LC 8)
Max Uplift 11=-860(LC 5), 2=-747(LC 8)
Max Grav 11=2313(LC 1), 2=2211(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3517/1189, 3-4=-5501/1984, 4-5=-4334/1568, 5-6=-4430/1630, 6-7=-4395/1620,
7-9=-2231/828, 9-10=-2231/828, 10-11=-2181/856
BOT CHORD 2-19=-1100/2873, 18-19=-1217/3186, 17-18=-1709/4475, 16-17=-1318/3526,
6-16=-546/307, 14-15=-140/375, 12-14=-1243/3372
WEBS 3-19=-1685/666, 3-18=-736/1935, 4-18=-382/1038, 4-17=-1034/432, 5-17=-419/1322,
5-16=-475/1160, 14-16=-1124/3052, 7-16=-500/1261, 7-14=-314/236, 7-12=-1519/568,
9-12=-641/377, 10-12=-1083/2929

- NOTES-** (10)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=860, 2=747.



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

August 10,2022

Continued on page 2

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T12	Half Hip Girder	1	1	T28494673

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Jul 18 2022 MiTek Industries, Inc.
Tue Aug 9 14:01:48 2022
Page 2
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- NOTES-** (10)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 206 lb down and 172 lb up at 7-0-0, 111 lb down and 81 lb up at 9-0-12, 111 lb down and 81 lb up at 11-0-12, 127 lb down and 106 lb up at 13-0-12, 127 lb down and 106 lb up at 15-0-12, 127 lb down and 102 lb up at 17-0-12, 127 lb down and 106 lb up at 19-0-12, 127 lb down and 106 lb up at 21-0-12, 127 lb down and 106 lb up at 23-0-12, and 127 lb down and 106 lb up at 25-0-12, and 127 lb down and 106 lb up at 27-0-12 on top chord, and 461 lb down and 186 lb up at 7-0-0, 122 lb down and 41 lb up at 9-0-12, 122 lb down and 41 lb up at 11-0-12, 87 lb down and 21 lb up at 13-0-12, 87 lb down and 21 lb up at 15-0-12, 87 lb down and 21 lb up at 17-0-12, 87 lb down and 21 lb up at 19-0-12, 87 lb down and 21 lb up at 21-0-12, 87 lb down and 21 lb up at 23-0-12, and 87 lb down and 21 lb up at 25-0-12, and 87 lb down and 21 lb up at 27-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

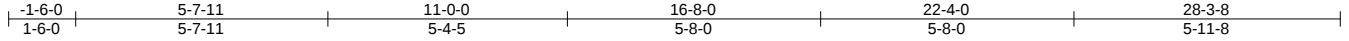
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-5=-54, 5-10=-54, 19-21=-20, 18-19=-20, 16-18=-20, 11-15=-20
- Concentrated Loads (lb)
- Vert: 8=-110(F) 17=-442(F) 5=-144(F) 14=-64(F) 7=-110(F) 24=-83(F) 25=-83(F) 26=-110(F) 27=-110(F) 28=-110(F) 29=-110(F) 30=-110(F) 31=-110(F) 32=-108(F) 33=-108(F) 34=-64(F) 35=-64(F) 36=-64(F) 37=-64(F) 38=-64(F) 39=-64(F) 40=-64(F)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC	T28494675
3264809	T14	Half Hip	1	1	Job Reference (optional)	

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

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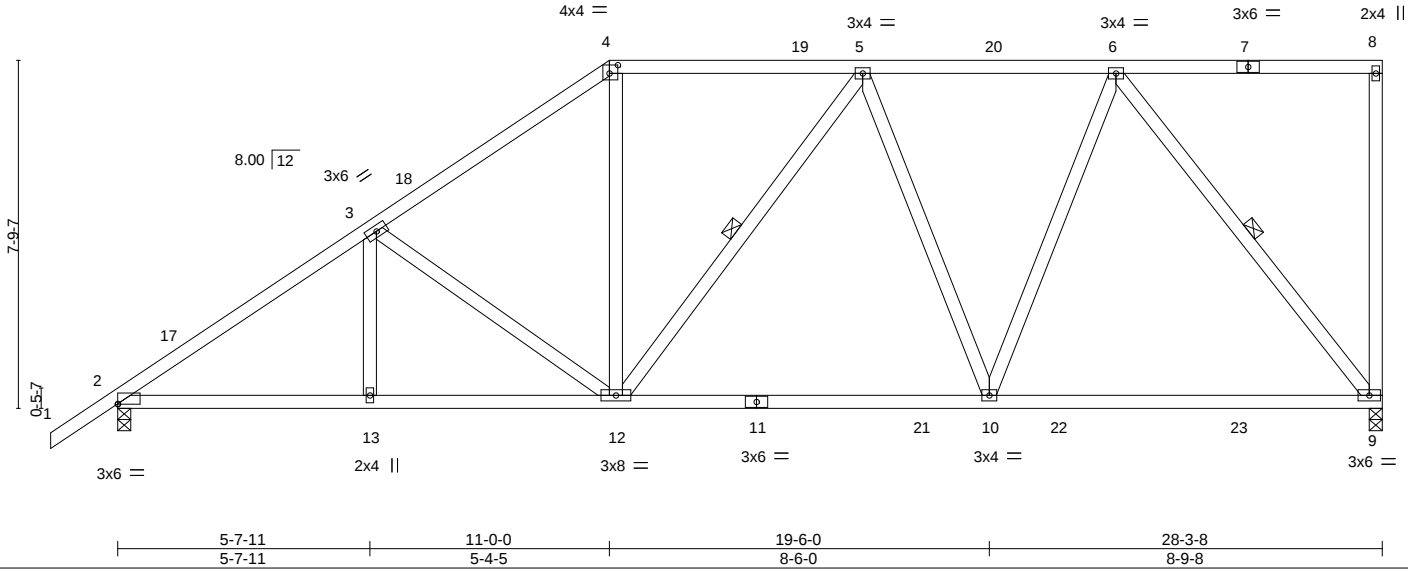


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [4:0-2-4,0-2-4]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.45	Vert(LL)	-0.24	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.39	9-10	>869	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.05	9	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 177 lb	FT = 20%

LUMBER-

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

REACTIONS.

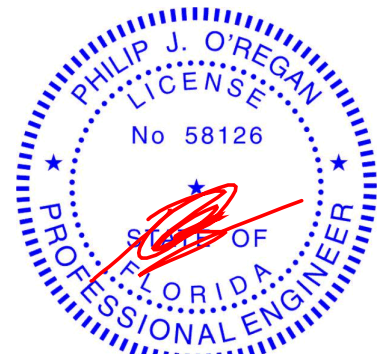
(size) 9=0-3-8, 2=0-3-8
Max Horz 2=274(LC 12)
Max Uplift 9=255(LC 9), 2=247(LC 12)
Max Grav 9=1191(LC 2), 2=1214(LC 2)

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

TOP CHORD 2-3=-1708/319, 3-4=-1353/291, 4-5=-1074/286, 5-6=-990/193
BOT CHORD 2-13=-439/1369, 12-13=-439/1369, 10-12=-260/1083, 9-10=-168/740
WEBS 3-12=-454/187, 4-12=-30/491, 5-10=-325/189, 6-10=-127/707, 6-9=-1181/272

NOTES- (8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 28-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=255, 2=247.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 10,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC	T28494676
3264809	T15	Hip	1	1	Job Reference (optional)	

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

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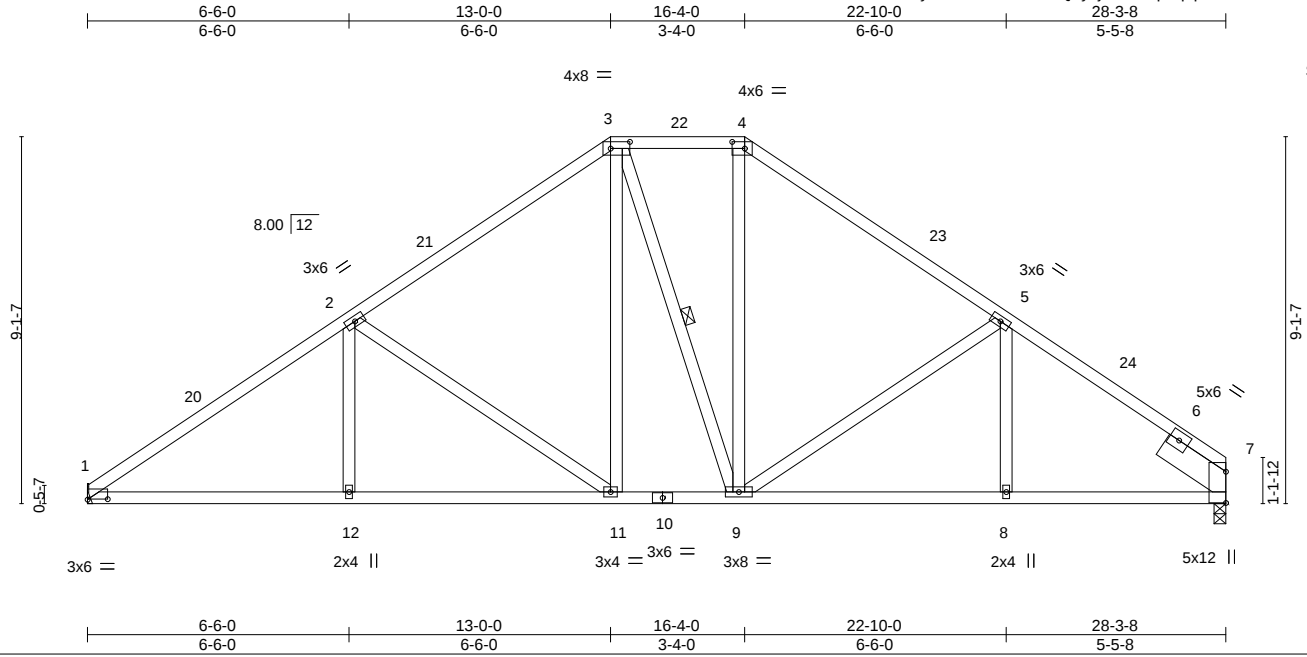


Plate Offsets (X,Y)-- [1:0-6-0,0-0-2], [3:0-5-12,0-2-0], [4:0-3-12,0-2-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.82	Vert(LL) -0.10	8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.96	Vert(CT) -0.22	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.10	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 172 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 7-8.
WEBS 1 Row at midpt 3-9

REACTIONS.

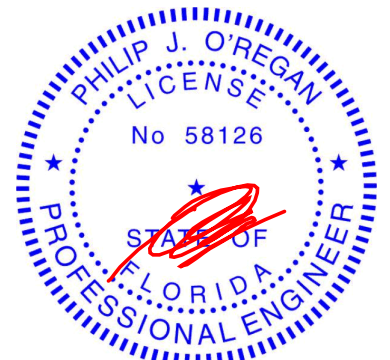
(size) 1=Mechanical, 7=0-3-8
Max Horz 1=184(LC 9)
Max Uplift 1=201(LC 12), 7=194(LC 13)
Max Grav 1=1047(LC 1), 7=1047(LC 1)

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

TOP CHORD 1-2=-1575/299, 2-3=-1122/255, 3-4=-841/259, 4-5=-1104/253, 5-7=-1346/264
BOT CHORD 1-12=-307/1241, 11-12=-307/1241, 9-11=-113/846, 8-9=-149/1044, 7-8=-149/1044
WEBS 2-12=0/282, 2-11=-511/236, 3-11=-97/364, 4-9=-84/325, 5-9=-305/190

NOTES- (9)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-4-0, Exterior(2R) 16-4-0 to 20-6-15, Interior(1) 20-6-15 to 28-3-8 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=201, 7=194.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

August 10,2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T16	Common	1	1	T28494677

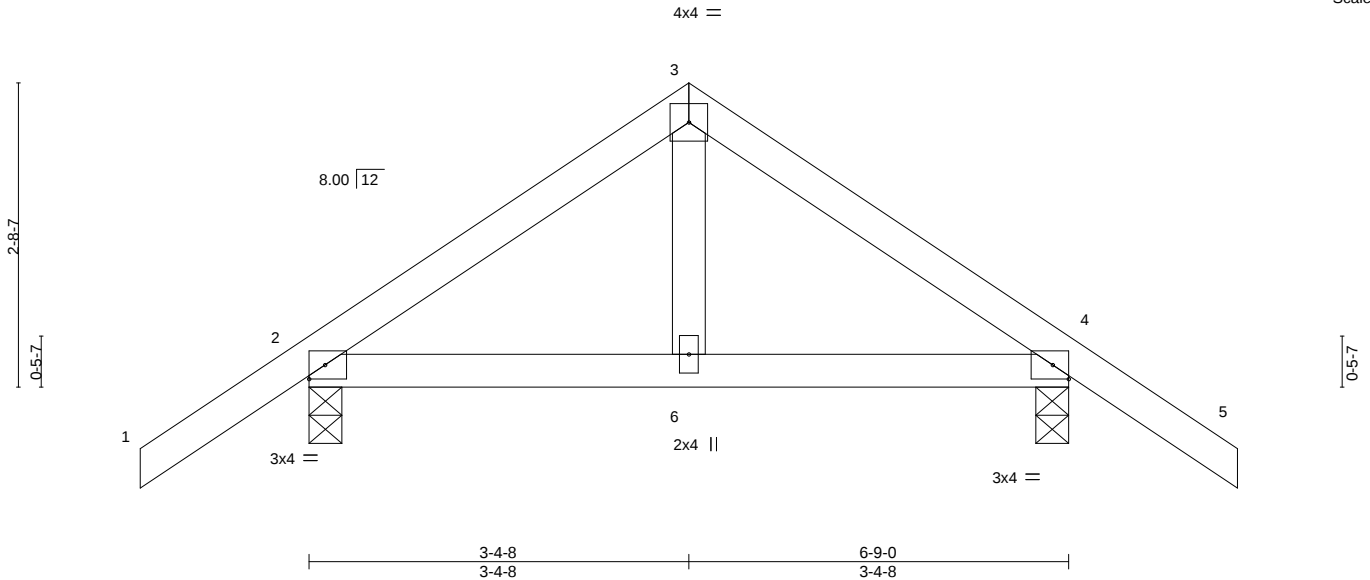
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:53 2022 Page 1

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Scale = 1:20.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	0.01	6-12	>999	240	MT20	244/190
TCDL 7.0	1.25	BC 0.11	Vert(CT)	-0.01	6-12	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP						Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

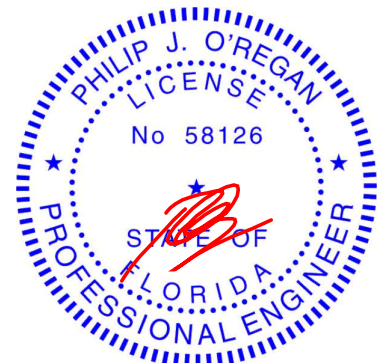
(size) 2=0-3-8, 4=0-3-8
Max Horz 2=69(LC 11)
Max Uplift 2=-79(LC 12), 4=-79(LC 13)
Max Grav 2=331(LC 1), 4=331(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-249/304, 3-4=-249/304

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-4-8, Exterior(2R) 3-4-8 to 6-9-0, Interior(1) 6-9-0 to 8-3-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 2, 4.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

August 10,2022

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



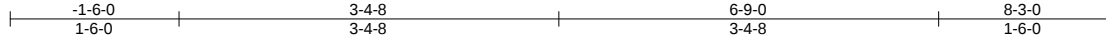
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	T16G	Common Supported Gable	1	1	T28494678

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

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 9 14:01:54 2022 Page 1

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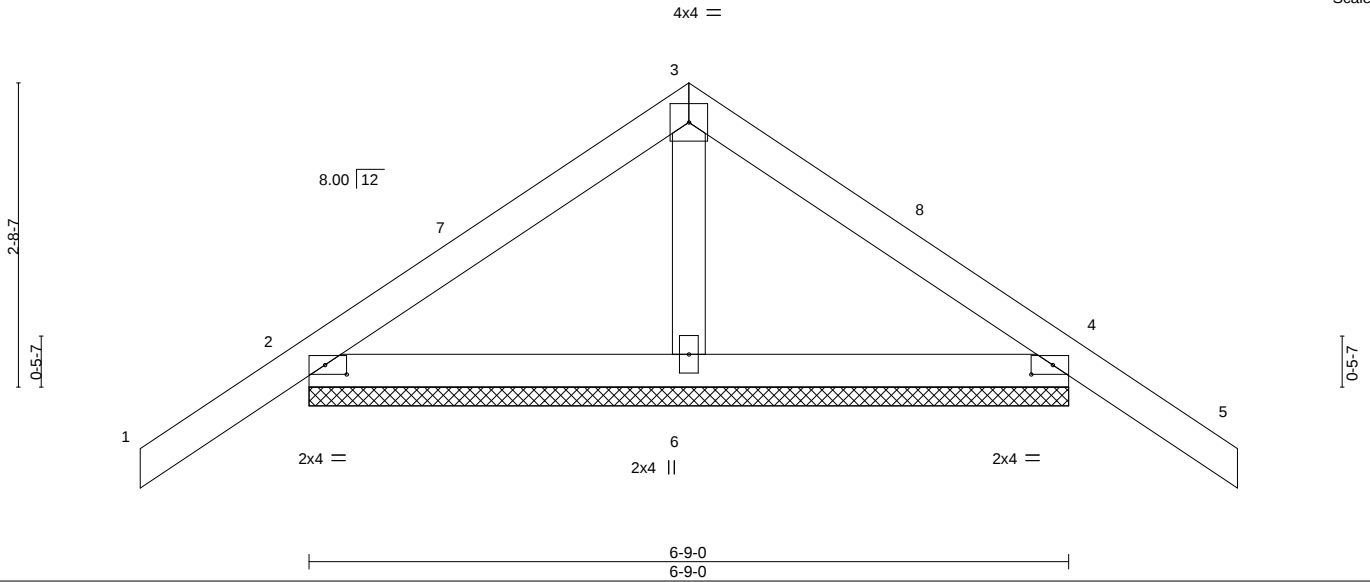


Plate Offsets (X,Y)--		[2:0-2-5,0-1-0], [4:0-2-5,0-1-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.18	Vert(LL) -0.00 4 n/r 120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.11	Vert(CT) -0.00 5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P		Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

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

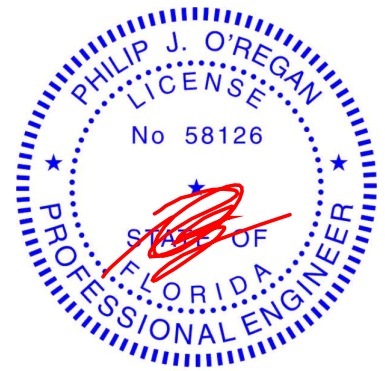
REACTIONS.

(size) 2=6-9-0, 4=6-9-0, 6=6-9-0
Max Horz 2=69(LC 11)
Max Uplift 2=-78(LC 12), 4=-87(LC 13), 6=-3(LC 12)
Max Grav 2=228(LC 1), 4=228(LC 1), 6=206(LC 1)

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

NOTES- (11)

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



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

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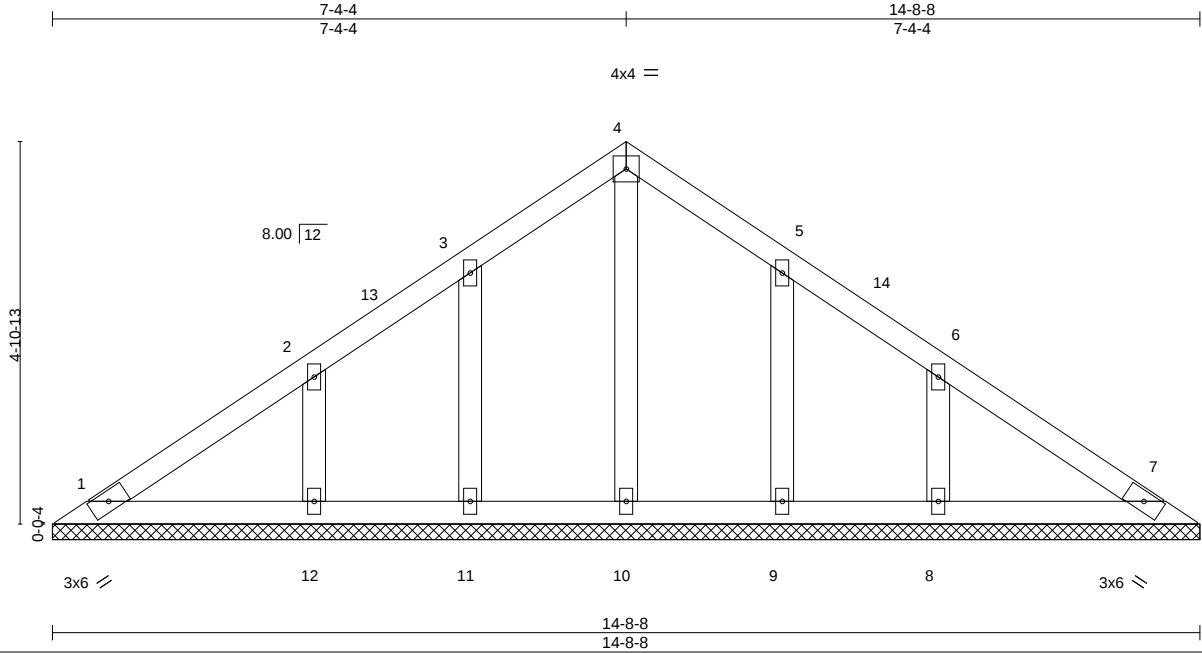
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS REALITY - FT. WHITE SPEC
3264809	V01	Valley	1	1	T28494679

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

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Scale = 1:29.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 67 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD
BOT CHORD

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

REACTIONS.

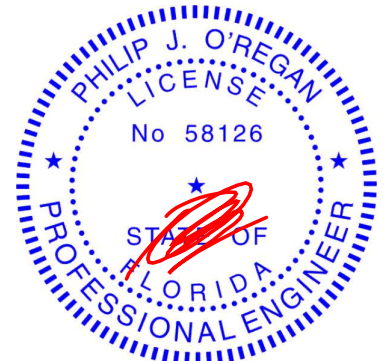
- All bearings 14-8-8.
(lb) - Max Horz 1=98(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 12, 9 except 8=-100(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.

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

NOTES- (9)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-4-4, Interior(1) 3-4-4 to 7-4-4, Exterior(2R) 7-4-4 to 10-4-4, Interior(1) 10-4-4 to 14-2-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 12, 9 except (jt=lb) 8=100.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

August 10,2022

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

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

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

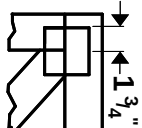
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



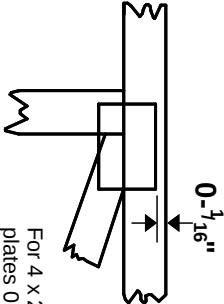
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

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

*** Plate location details available in MiTek 2012 software or upon request.**

PLATE SIZE

4 X 4

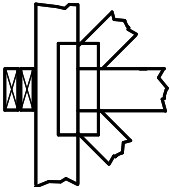
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



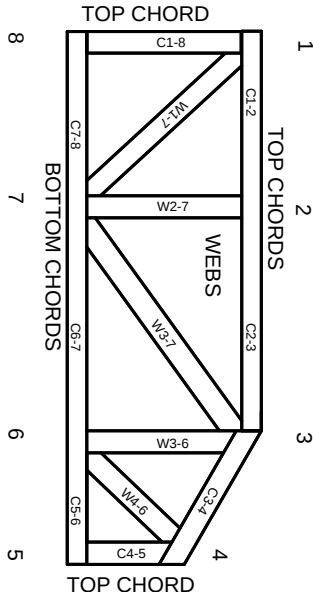
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.