



Builders First Source - Lake City

2525 East Duval St, Lake City FL 32055

Phone: 386-755-6894

Date:	3/17/2023		Phone #:		
Customer:	Exceptions Reality And Custom Homes				
Job Name:	Spec Hse				
Jobsite Address:	352 SW Buttercup Lane		/Blk:		
	Lake City, FL		County:	Columbia	
Pitch:	TC 8:12 / Flat Clg.	Loading:	Per Plans	Quoted By:	Kim Holloway
Top Chord:	2x4	Bearing:	4"	Sales Rep:	Kimber Holloway
Overhangs:	18"	Spacing:	24"	MFG Sales Rep:	Kim Holloway

Details

ROOF TRUSSES WITH
TRUSS TO TRUSS CONNECTORS

Includes hangers for truss to truss, truss to beam, & truss to ledger connections only.

Plan / Design changes made after the original engineering is supplied will be billed at \$150 per hour for re-designs.

Bid does NOT include tie downs, nails, or truss clips.

Note: Hip & Valley blocking, Overhang Blocking, Truss Bracing (Temporary or Permanent) NOT Included.

**Price Quoted is valid only if accepted within 7 days.
Price is subject to change at any time.**

To place this order, please sign and fully complete all information below and then return this proposal to:
Email to your sales person

Price

Roof Trusses \$8,255.00

Pre-Tax Sub-Total	\$8,255.00
Columbia County Tax 7.5%	\$570.30
Total Including Tax	\$8,825.30
No Additional Options	Must be signed within 7 days

It is the customer's responsibility to have access to the jobsite/delivery address by tractor-trailer.

Cash Customers: A non-refundable 20% Deposit required for truss layout, balance due 2 weeks prior to fabrication. Once order is received in truss office, a truss layout and truss profiles will be provided.

Customer is responsible to notify Builders FirstSource Truss within 24 hours of delivery of any mold, mildew, termites, damaged trusses or missing material.

A \$100.00 fee will be assessed for replacement sealed engineering packages lost, misplaced, or damaged by customer

Please examine this quote, as we agree to furnish at the price herein specified only the articles named and described herein.

Order accepted by, or in production by BFS, its affiliates, subsidiaries, successors and/or assigns cannot be changed or cancelled except at the expense of purchaser.

Customers on Account: upon cancellation, a fee of 20% of the total purchase price will be charged for Placement Plan and/or Truss Profiles (does not apply to cash customers.)

BFS will not be liable for back charges unless approved by representative before the work creating any change is performed.

Price is not to be assumed as valid if plan is repeated at a later date; new quote must be requested for new project:

X	
Customer Authorized Signature Above	Date
Customer Authorized Purchaser (Print Name Above)	Requested Delivery Date
Customer Contact for Delivery Scheduling (Print Name Above)	Phone #
Email Address	

AGREED

BFS, subsidiaries and/or assigns agrees to furnish components as described above.

Kim Holloway

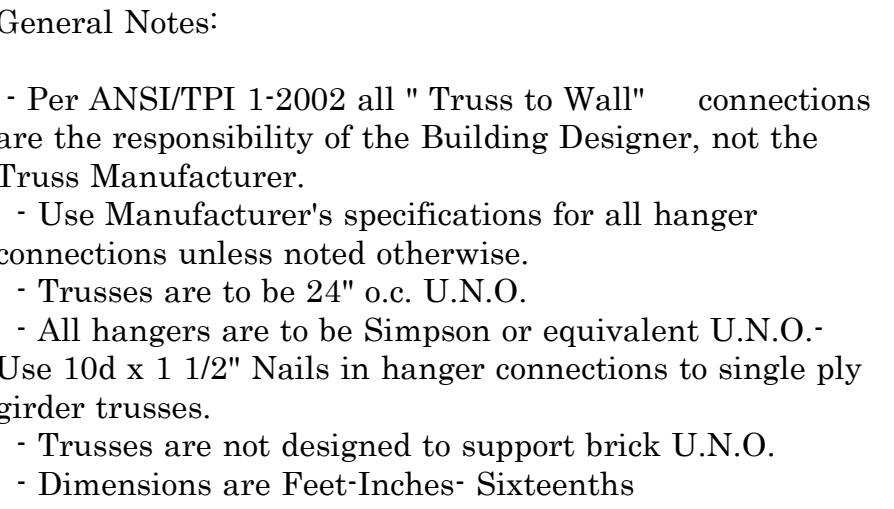
BFS Authorized by

3/17/2023

Date

Price Quoted is valid only if accepted within 7 days. Price is subject to change at any time.

THE ARROW HEAD AT THE
END OF THE TRUSS ON
THE TRUSS PLACEMENT
PLAN (LAYOUT)
CORRESPONDS WITH THE
LEFT SIDE OF THE
INDIVIDUAL TRUSS
DRAWING. USE THIS AS AN
ORIENTATION GUIDE
WHEN SETTING THE
TRUSSES ON THE
STRUCTURE.



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

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

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

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

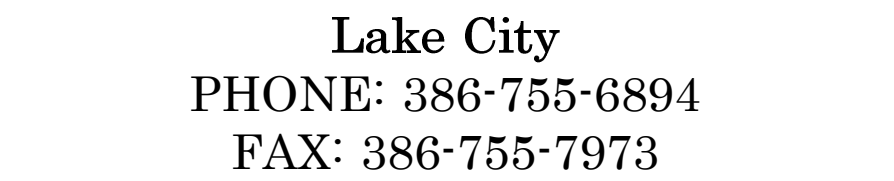
It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

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

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

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

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



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

Tallahassee
PHONE: 850-576-5177

Builder: EXCEPTIONS REALITY

Legal Address:
352 SW Buttercup Lane

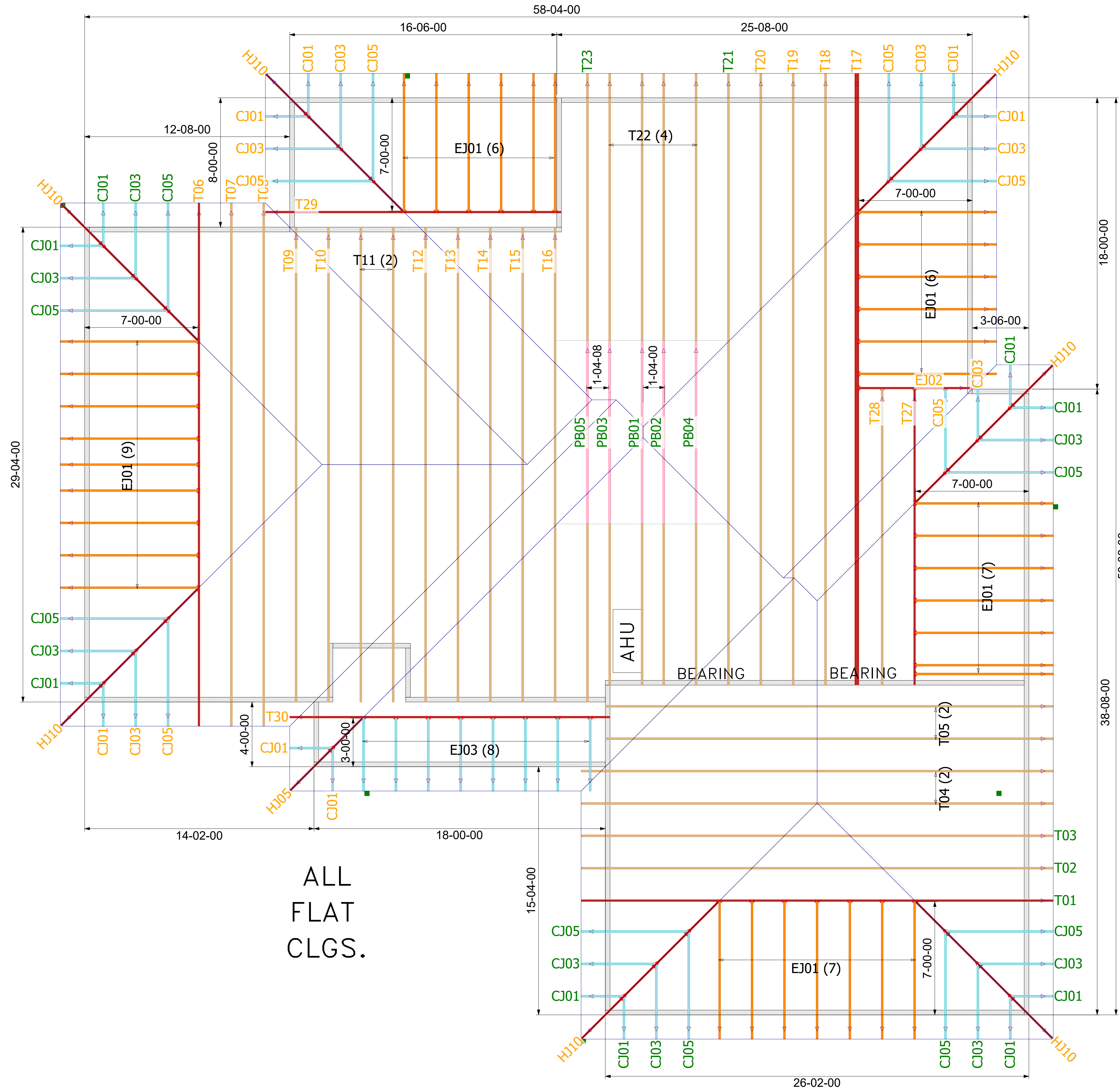
Model:
1841

Date:	Drawn By:	Original Ref #:
3-17-23	KLH	3458582

Floor 1 Job#	Floor 2 Job#:	Roof Job #:
N/A	N/A	3458582

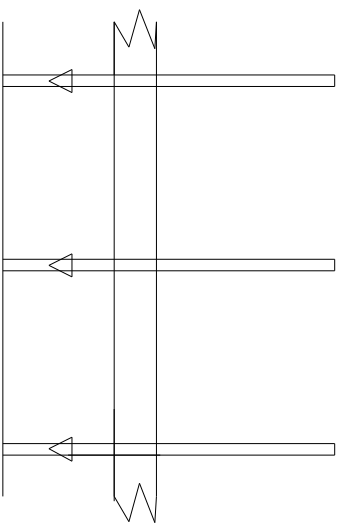
MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2

8/12 PITCH – 18” O/H



MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



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

Notes:

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

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

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

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

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

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

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

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

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



Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

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

Tallahassee
PHONE: 850-576-5177

Builder: **EXCEPTIONS REALITY**

Legal Address: **352 SW Buttercup Lane**

Model: **1841**

Date: **3-17-23** Drawn By: **KLH** Original Ref #: **3458582**

Floor 1 Job#: **N/A** Floor 2 Job#: **N/A** Roof Job #: **3458582**



RE: 3458582
EXCEPTIONS - 1841

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer: EXCEPTIONS REALITY Project Name: 3458582
Lot/Block: N/A Model: 1841
Address: 352 SW Buttercup Lane Subdivision: N/A
City: Columbia Cty State: FL

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T30080927	CJ01	3/20/2023	21	T30080947	T08	3/20/2023
2	T30080928	CJ03	3/20/2023	22	T30080948	T09	3/20/2023
3	T30080929	CJ05	3/20/2023	23	T30080949	T10	3/20/2023
4	T30080930	EJ01	3/20/2023	24	T30080950	T11	3/20/2023
5	T30080931	EJ02	3/20/2023	25	T30080951	T12	3/20/2023
6	T30080932	EJ03	3/20/2023	26	T30080952	T13	3/20/2023
7	T30080933	HJ05	3/20/2023	27	T30080953	T14	3/20/2023
8	T30080934	HJ10	3/20/2023	28	T30080954	T15	3/20/2023
9	T30080935	PB01	3/20/2023	29	T30080955	T16	3/20/2023
10	T30080936	PB02	3/20/2023	30	T30080956	T17	3/20/2023
11	T30080937	PB03	3/20/2023	31	T30080957	T18	3/20/2023
12	T30080938	PB04	3/20/2023	32	T30080958	T19	3/20/2023
13	T30080939	PB05	3/20/2023	33	T30080959	T20	3/20/2023
14	T30080940	T01	3/20/2023	34	T30080960	T21	3/20/2023
15	T30080941	T02	3/20/2023	35	T30080961	T22	3/20/2023
16	T30080942	T03	3/20/2023	36	T30080962	T23	3/20/2023
17	T30080943	T04	3/20/2023	37	T30080963	T27	3/20/2023
18	T30080944	T05	3/20/2023	38	T30080964	T28	3/20/2023
19	T30080945	T06	3/20/2023	39	T30080965	T29	3/20/2023
20	T30080946	T07	3/20/2023	40	T30080966	T30	3/20/2023

This item has been electronically signed and sealed by O'Regan, Philip using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

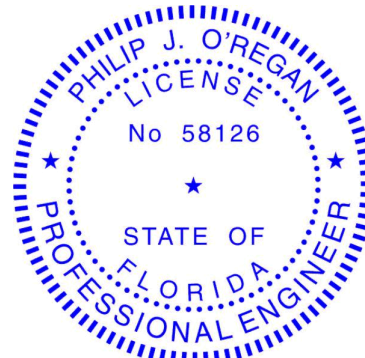
based on the parameters provided by Builders FirstSource-Lake City, FL.

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

My license renewal date for the state of Florida is February 28, 2025.

Florida COA: 6634

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



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

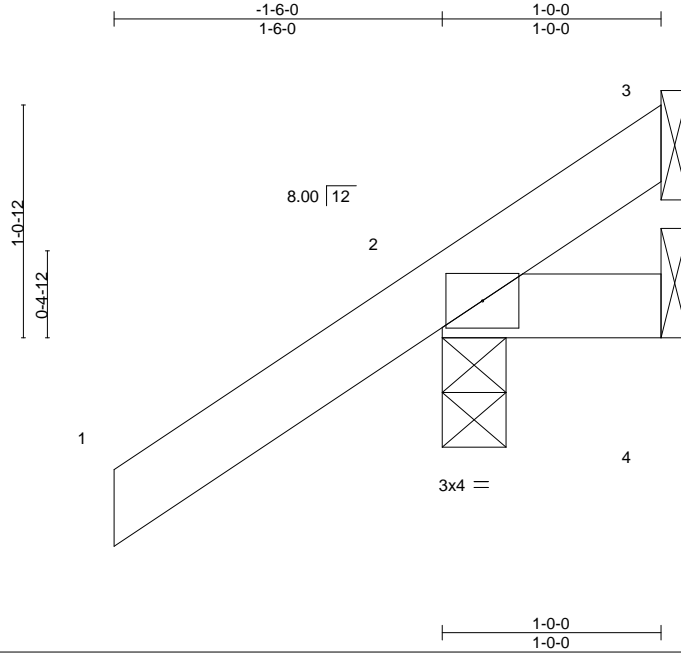
March 20, 2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458582	CJ01	Jack-Open	16	1	T30080927

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:31 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-AeYIBLEKMTApEI89NiyIHrR549pxi5DkBWxLluza4WI



Scale = 1:10.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.19	Vert(LL) 0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	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=52(LC 12)
Max Uplift 3=5(LC 1), 2=69(LC 12), 4=23(LC 19)
Max Grav 3=7(LC 16), 2=179(LC 1), 4=21(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 5 lb uplift at joint 3, 69 lb uplift at joint 2 and 23 lb uplift at joint 4.

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

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

March 20,2023

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



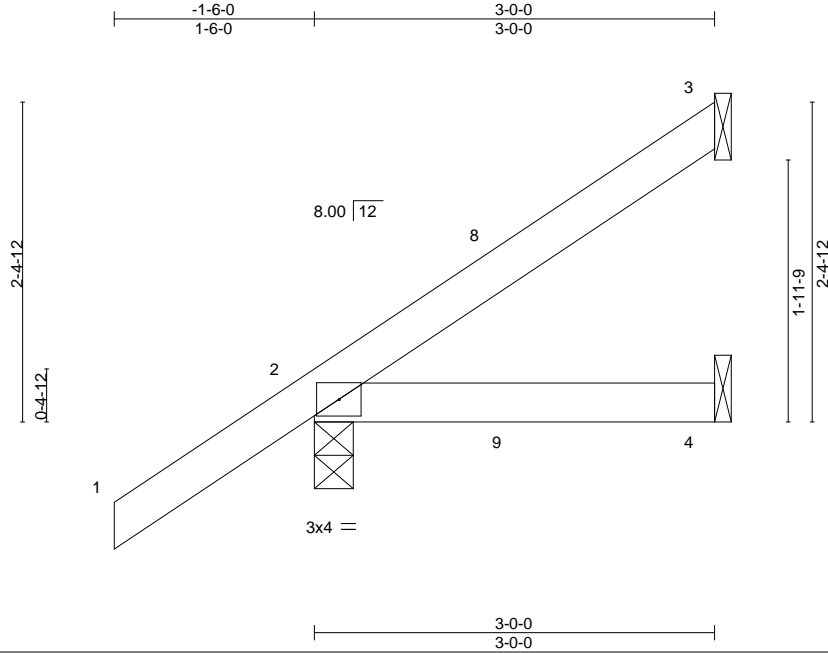
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080928
3458582	CJ03	Jack-Open	14	1	Job Reference (optional)	

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

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0'-0	TC 0.16	Vert(LL)	0.01	4-7	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT)	-0.01	4-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 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=97(LC 12)
Max Uplift 3=-44(LC 12), 2=-49(LC 12), 4=-16(LC 9)
Max Grav 3=62(LC 19), 2=210(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 44 lb uplift at joint 3, 49 lb uplift at joint 2 and 16 lb uplift at joint 4.

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

March 20,2023

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



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Chesterfield, MO 63017

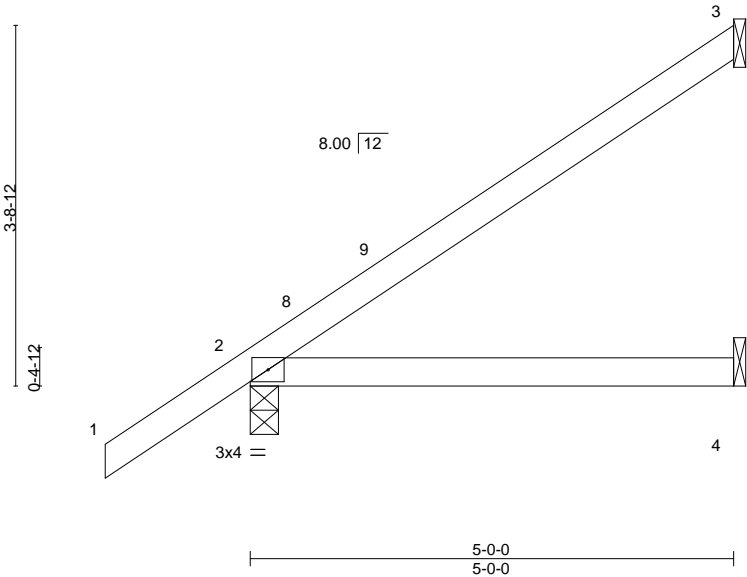
Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458582	CJ05	Jack-Open	14	1	T30080929

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023 MiTek Industries, Inc.
Fri Mar 17 08:49:34 2023
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Scale: 1/2"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.03	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.06	4-7	>999	180	244/190
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: 19 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=143(LC 12)
Max Uplift 3=-81(LC 12), 2=-49(LC 12), 4=-1(LC 12)
Max Grav 3=120(LC 19), 2=276(LC 1), 4=89(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 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.
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 - 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 81 lb uplift at joint 3, 49 lb uplift at joint 2 and 1 lb uplift at joint 4.

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

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

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080930
3458582	EJ01	Jack-Partial	35	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:35 2023 Page 1

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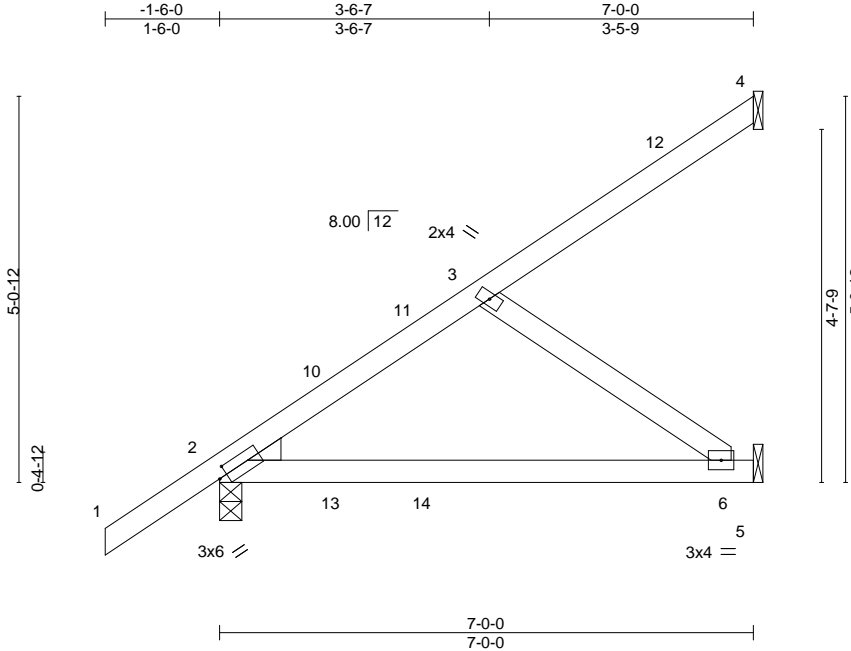


Plate Offsets (X,Y)--		[2:0-1-5,0-1-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL 20.0		Plate Grip DOL	1.25
TCDL 7.0		Lumber DOL	1.25
BCLL 0.0 *		Rep Stress Incr	YES
BCDL 10.0		Code	FBC2020/TPI2014
		CSI.	
		TC 0.35	
		BC 0.48	
		WB 0.08	
		Matrix-MS	
		DEFL.	
		in (loc)	I/defl
		Vert(LL) 0.17	6-9 >479
		Vert(CT) -0.16	6-9 >529
		Horz(CT) -0.00	2 n/a
			L/d
			240
			180
			n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=182(LC 12)
Max Uplift 4=-48(LC 12), 2=-55(LC 12), 5=-79(LC 9)
Max Grav 4=80(LC 19), 2=346(LC 1), 5=176(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-218/282

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 48 lb uplift at joint 4, 55 lb uplift at joint 2 and 79 lb uplift at joint 5.

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

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080931
3458582	EJ02	MONO TRUSS	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023
MiTek Industries, Inc.
Fri Mar 17 08:49:37 2023
Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-?nwZSOI5xJwyyDcljy3iX6h71aqR6g4dZSOFWXza4WC

3-11-0

3-11-0

7-0-0

3-1-0

2x4 ||

3

11

8.00 | 12

3x8 //

2

5.0-12

0.4-12

1

8

9

5

10

4

5x6 =

3x8 ||

4x6 =

3-11-0

3-11-0

7-0-0

3-1-0

Scale = 1:31.2

Plate Offsets (X,Y)-- [1:0-2-12,0-1-9], [5:0-5-8,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	in (loc)	l/defl	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(LL)	-0.02 5-7 >999		244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Vert(CT)	-0.03 5-7 >999		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Horz(CT)	0.01 4 n/a		
								Weight: 49 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-9-2 oc purlins, except end verticals.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 1=0-3-8, 4=Mechanical
Max Horz 1=151(LC 23)
Max Uplift 1=-311(LC 8), 4=-472(LC 8)
Max Grav 1=1131(LC 1), 4=1447(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1459/410
BOT CHORD 1-5=-436/1191, 4-5=-436/1191
WEBS 2-5=-521/1618, 2-4=-1563/572

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 311 lb uplift at joint 1 and 472 lb uplift at joint 4.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 256 lb down and 69 lb up at 1-7-13, and 1169 lb down and 484 lb up at 3-6-12, and 703 lb down and 144 lb up at 5-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 1-3=-54
Concentrated Loads (lb)
Vert: 8=-256 9=-1169(B) 10=-646(B)

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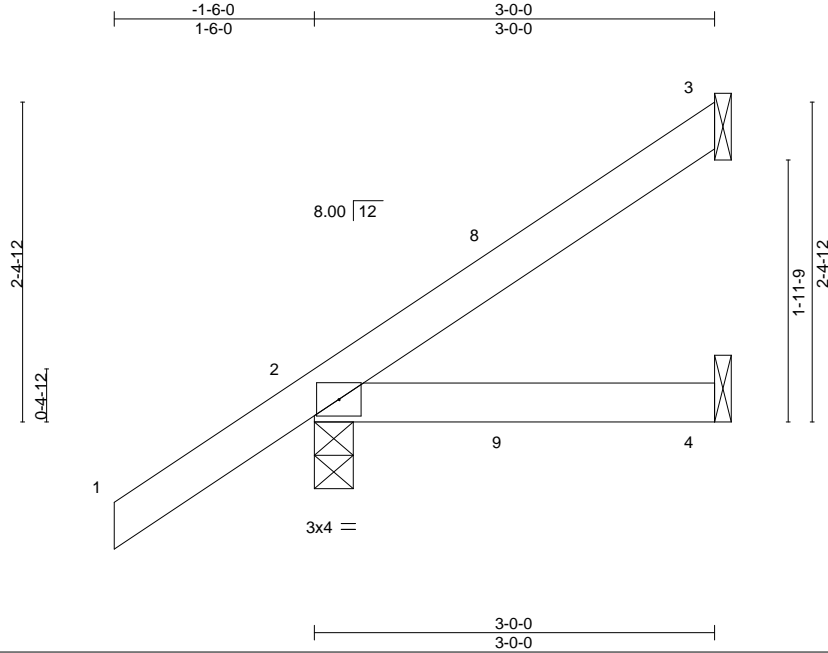
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458582	EJ03	Jack-Open	8	1	T30080932

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:38 2023 Page 1
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-T_Uxfkjid3paNAVHgbx4KElizBgrGymo67D2_za4WB



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	0.01	4-7	>999	MT20	244/190
TCDL 7.0	1.25	BC 0.10	Vert(CT)	-0.01	4-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 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=97(LC 12)
Max Uplift 3=-44(LC 12), 2=-49(LC 12), 4=-16(LC 9)
Max Grav 3=62(LC 19), 2=210(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 44 lb uplift at joint 3, 49 lb uplift at joint 2 and 16 lb uplift at joint 4.

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

March 20,2023

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

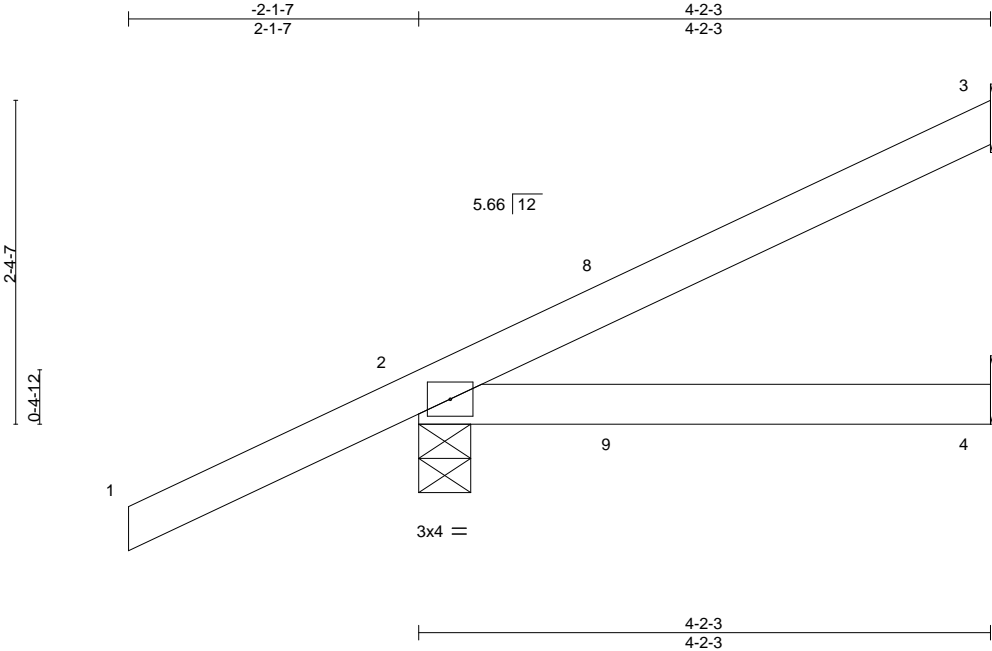


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080933
3458582	HJ05	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:39 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-xA1Js4KLTwBgBXIhrN6AcXmRENVmajCw1mtmaQza4WA



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.30	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.03	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 17 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=96(LC 26)
Max Uplift 3=-60(LC 8), 2=-125(LC 8), 4=-30(LC 5)
Max Grav 3=85(LC 1), 2=296(LC 1), 4=71(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 60 lb uplift at joint 3, 125 lb uplift at joint 2 and 30 lb uplift at joint 4.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 73 lb up at 1-6-1, and 60 lb down and 73 lb up at 1-6-1 on top chord, and 44 lb down and 50 lb up at 1-6-1, and 44 lb down and 50 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20

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

March 20,2023

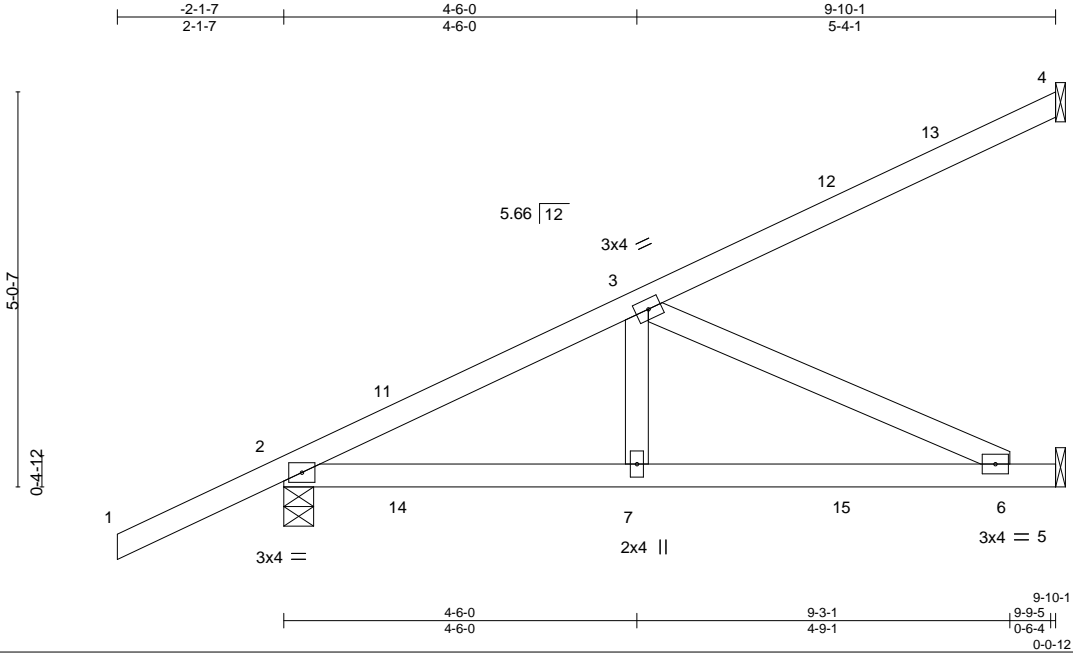


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080934
3458582	HJ10	Diagonal Hip Girder	7	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:41 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-iZ93HmMc?YRORqv4yo8ehysiGB3h2XNCU4MtfIza4W8



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.59	Vert(LL)	0.08	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.14	6-7	>836	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.34	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 45 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-7-4 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=182(LC 8)
Max Uplift 4=-94(LC 8), 2=-228(LC 8), 5=-164(LC 5)
Max Grav 4=150(LC 1), 2=526(LC 1), 5=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-652/301
BOT CHORD 2-7=-351/556, 6-7=-351/556
WEBS 3-7=-81/302, 3-6=-613/387

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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
 - 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 94 lb uplift at joint 4, 228 lb uplift at joint 2 and 164 lb uplift at joint 5.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 73 lb up at 1-6-1, 60 lb down and 73 lb up at 1-6-1, 76 lb down and 46 lb up at 4-4-0, 76 lb down and 46 lb up at 4-4-0, and 109 lb down and 92 lb up at 7-1-15, and 109 lb down and 92 lb up at 7-1-15 on top chord, and 44 lb down and 50 lb up at 1-6-1, 44 lb down and 50 lb up at 1-6-1, 19 lb down and 24 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 70 lb down and 16 lb up at 7-1-15, and 70 lb down and 16 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)
Vert: 7=-4(F=-2, B=-2) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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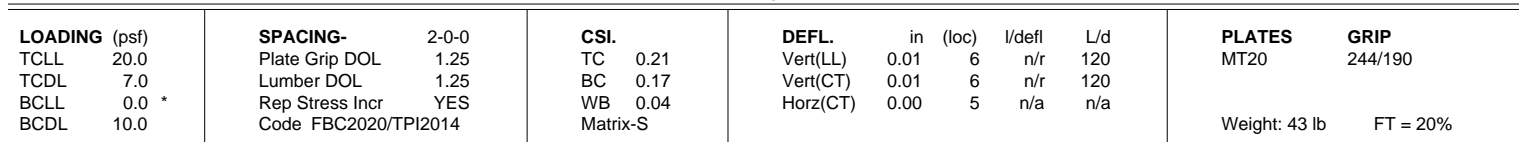
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 20,2023



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:42 2023 Page 1
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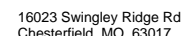
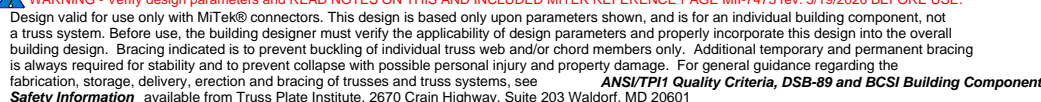


BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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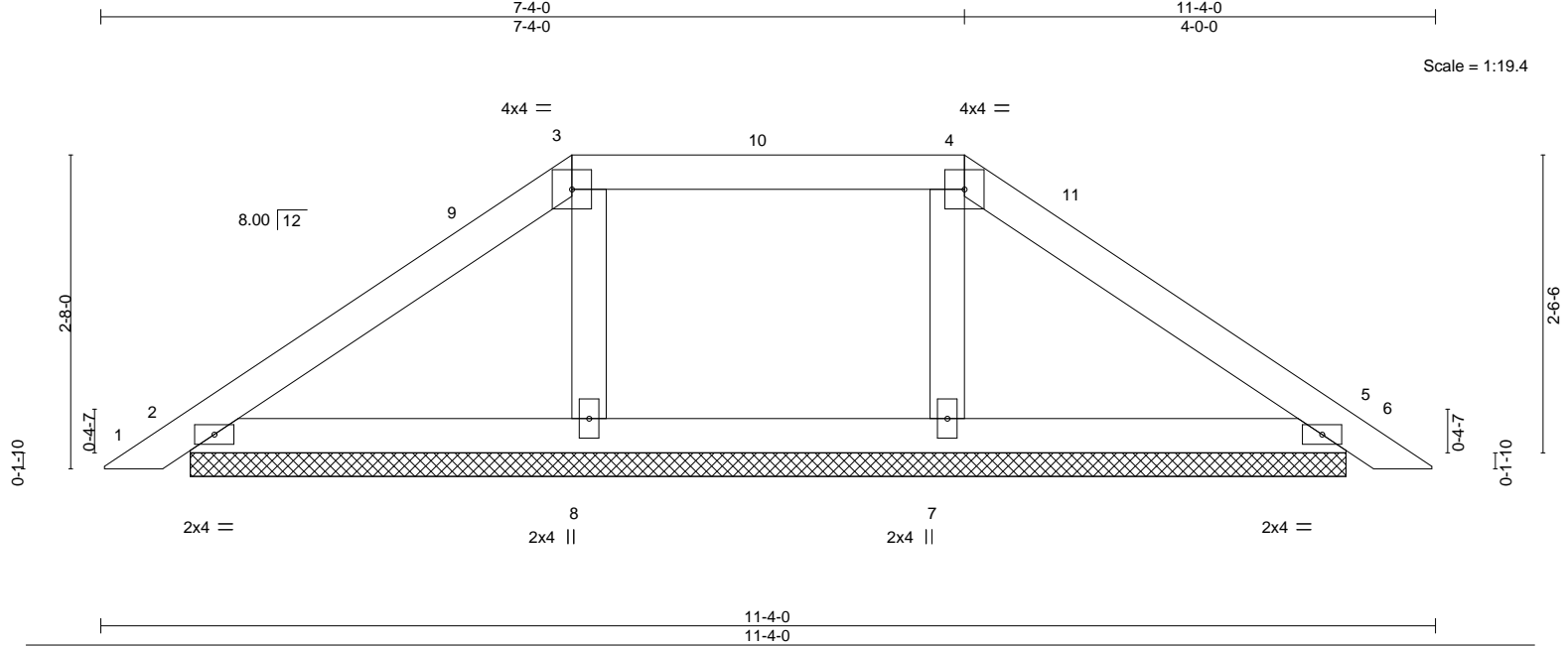
March 20, 2023



Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080936
3458582	PB02	Piggyback	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:44 2023 Page 1
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-l8rCwnOUItpzllfedwhLJbUK5OEOFzvIA2aXFdza4W5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0'-0	TC 0.10	Vert(LL)	0.00	6	n/r	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT)	0.00	6	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 40 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 9-9-12.
(lb) - Max Horz 2=55(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 7, 8

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 4-0-0, Exterior(2E) 4-0-0 to 11-0-11 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.
- 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" tall by 2'-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, 5, 7, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

March 20,2023

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

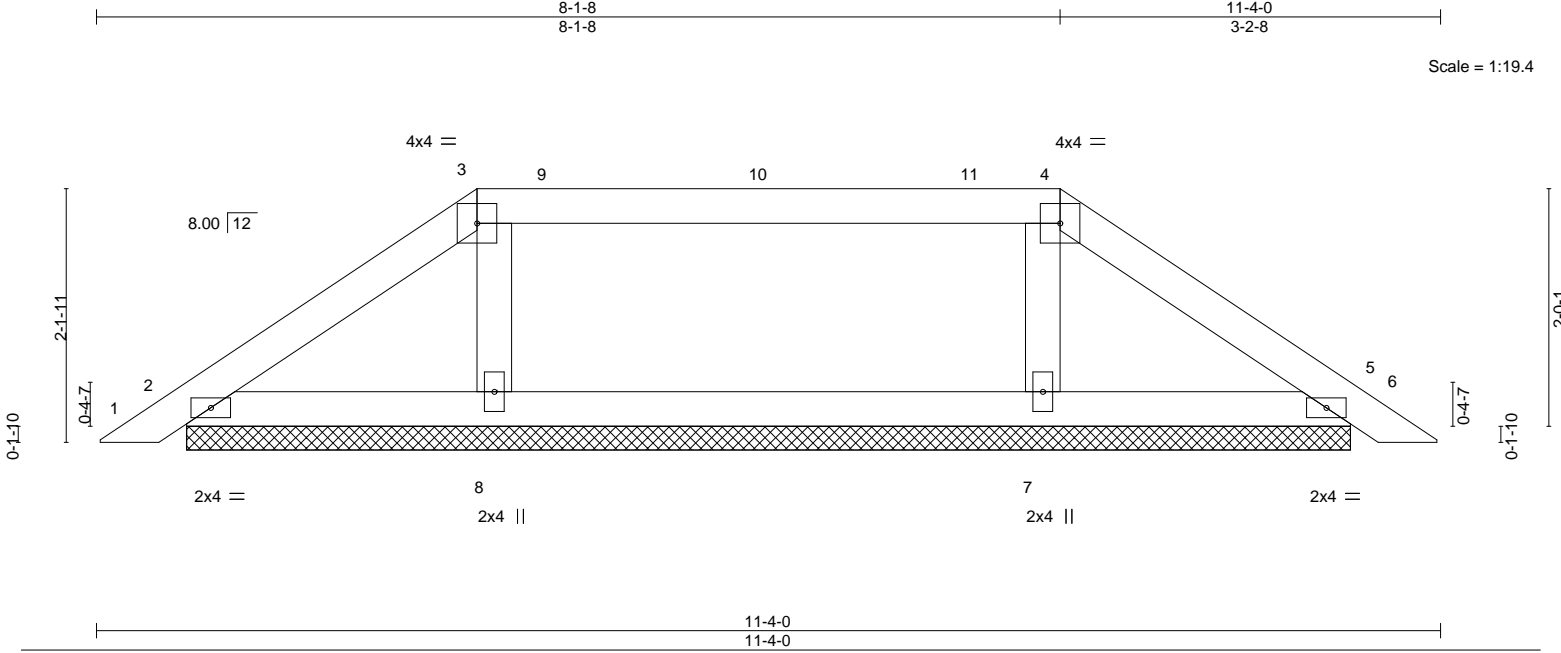
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080937
3458582	PB03	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023
MiTek Industries, Inc.
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.26	Vert(LL)	in	(loc)	l/defl	L/d	MT20		
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.00	5	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 38 lb		FT = 20%

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

REACTIONS. All bearings 9-9-12.
 (lb) - Max Horz 2=43(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 7=284(LC 24), 8=284(LC 23)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-2-8, Exterior(2R) 3-2-8 to 7-5-7, Interior(1) 7-5-7 to 8-1-8, Exterior(2E) 8-1-8 to 11-0-11 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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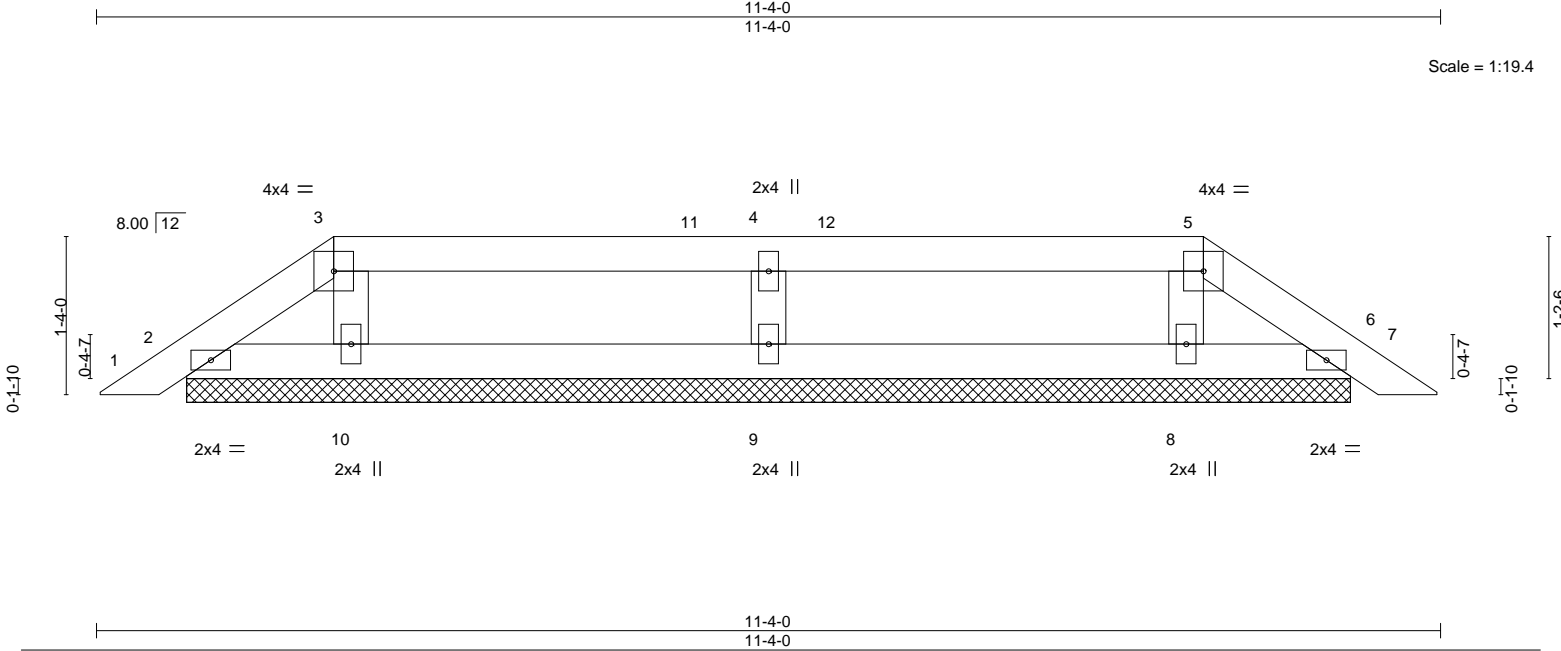
Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080938
3458582	PB04	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:47 2023 Page 1

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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.15	Vert(LL)	in	(loc)	l/defl	L/d	MT20		244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.00	6	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 35 lb		FT = 20%

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

REACTIONS. All bearings 9-9-12.
 (lb) - Max Horz 2=26(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8, 9
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=305(LC 23)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 2-0-0, Exterior(2R) 2-0-0 to 6-2-15, Interior(1) 6-2-15 to 9-4-0, Exterior(2E) 9-4-0 to 11-0-11 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8, 9.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

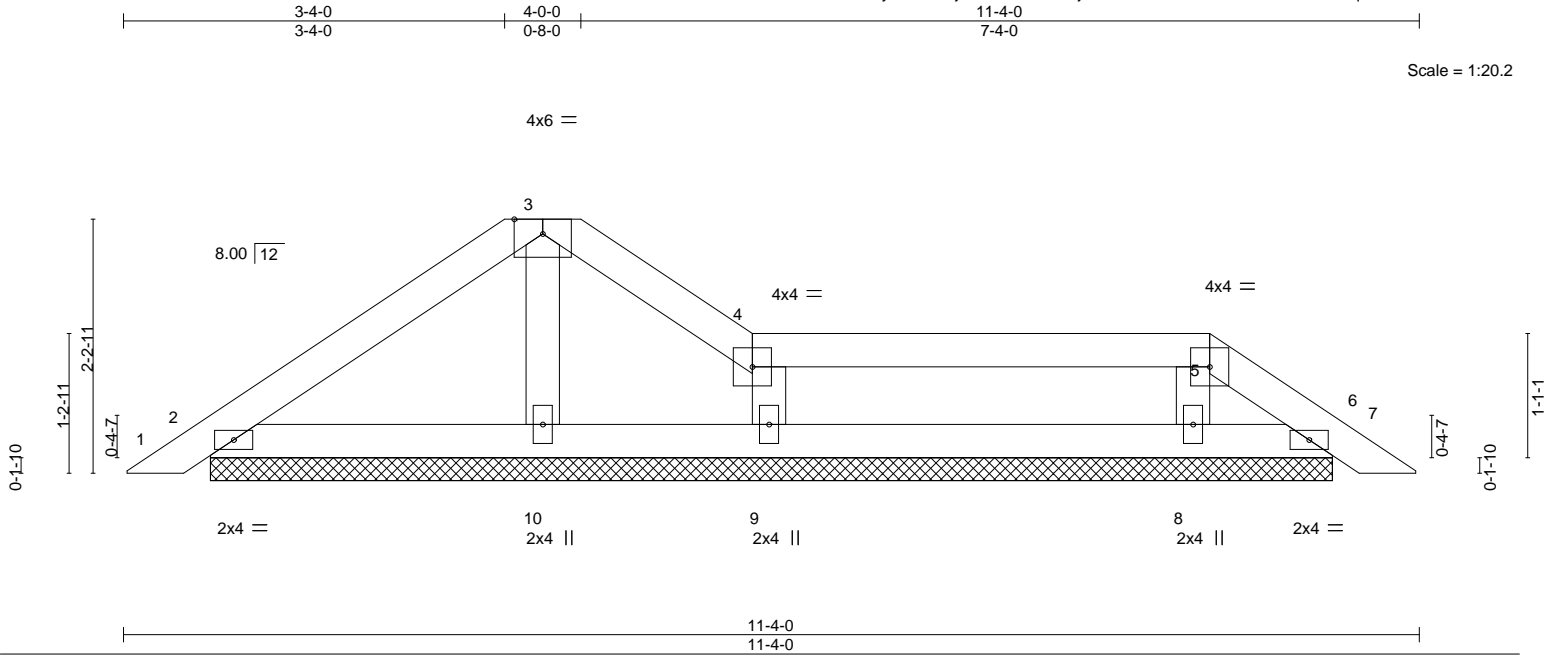
March 20,2023



Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080939
3458582	PB05	Piggyback	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:48 2023 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.17	Vert(LL)	-0.00	6	n/r	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT)	-0.00	6	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 37 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, Except:
6-0-0 oc bracing: 8-9.

REACTIONS.

All bearings 9-9-12.
(lb) - Max Horz 2=-50(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 8, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 8, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 3-8-0, Exterior(2E) 3-8-0 to 5-6-0, Interior(1) 5-6-0 to 9-6-0, Exterior(2E) 9-6-0 to 11-0-11 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9, 8, 10.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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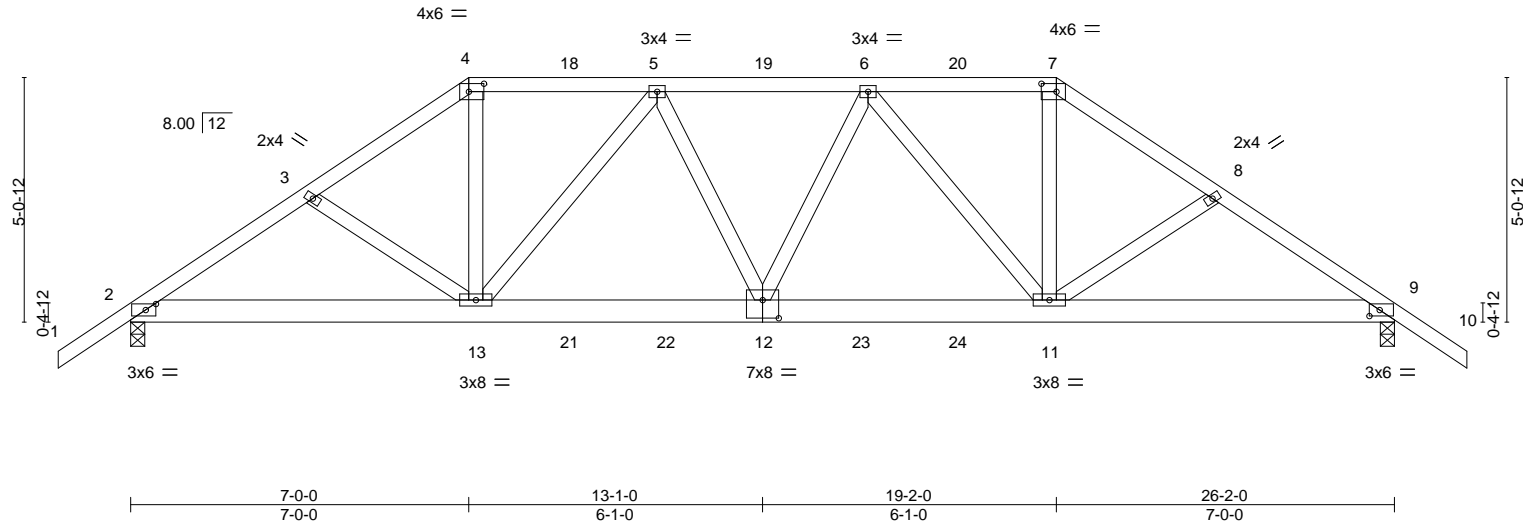
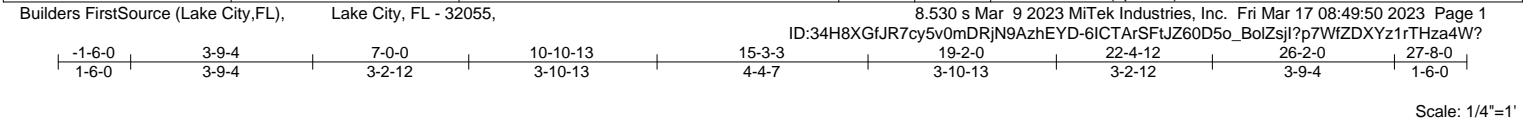
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080940
3458582	T01	Hip Girder	1	1	Job Reference (optional)	



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	Vert(LL) 0.16	11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT) -0.24	11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.56	Horz(CT) 0.08	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 166 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-4-2 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 9=0-3-8
	Max Horz 2=125(LC 26)
	Max Uplift 2=826(LC 8), 9=847(LC 9)
	Max Grav 2=1947(LC 1), 9=1981(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3113/1384, 3-4=-2964/1357, 4-5=-2462/1178, 5-6=-3099/1447, 6-7=-2511/1208, 7-8=-3025/1394, 8-9=-3174/1422
BOT CHORD	2-13=-1149/2550, 12-13=-1322/2944, 11-12=-1318/2962, 9-11=-1095/2600
WEBS	4-13=-631/1412, 5-13=-815/427, 5-12=-193/400, 6-12=-153/357, 6-11=-756/376, 7-11=-595/1373

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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) 2=826, 9=847.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 51 lb up at 7-0-0, 70 lb down and 49 lb up at 9-0-12, 70 lb down and 49 lb up at 11-0-12, 70 lb down and 41 lb up at 13-1-0, 70 lb down and 49 lb up at 15-1-4, and 70 lb down and 49 lb up at 17-1-4, and 177 lb down and 156 lb up at 19-2-0 on top chord, and 426 lb down and 291 lb up at 7-0-0, 156 lb down and 99 lb up at 9-0-12, 156 lb down and 99 lb up at 11-0-12, 156 lb down and 99 lb up at 13-1-0, 156 lb down and 99 lb up at 15-1-4, and 156 lb down and 99 lb up at 17-1-4, and 426 lb down and 291 lb up at 19-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080940
3458582	T01	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023
MiTek Industries, Inc.
Fri Mar 17 08:49:51 2023
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LOAD CASE(S) Standard

Uniform Loads (plf)

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

Concentrated Loads (lb)

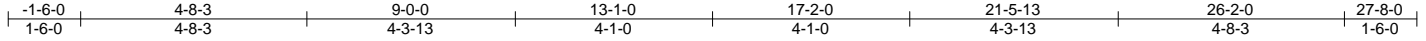
Vert: 4=-18(B) 7=-91(B) 12=-156(B) 13=-426(B) 5=-18(B) 6=-18(B) 11=-426(B) 18=-18(B) 19=-18(B) 20=-18(B) 21=-156(B) 22=-156(B) 23=-156(B) 24=-156(B)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080941
3458582	T02	Hip	1	1	Job Reference (optional)	

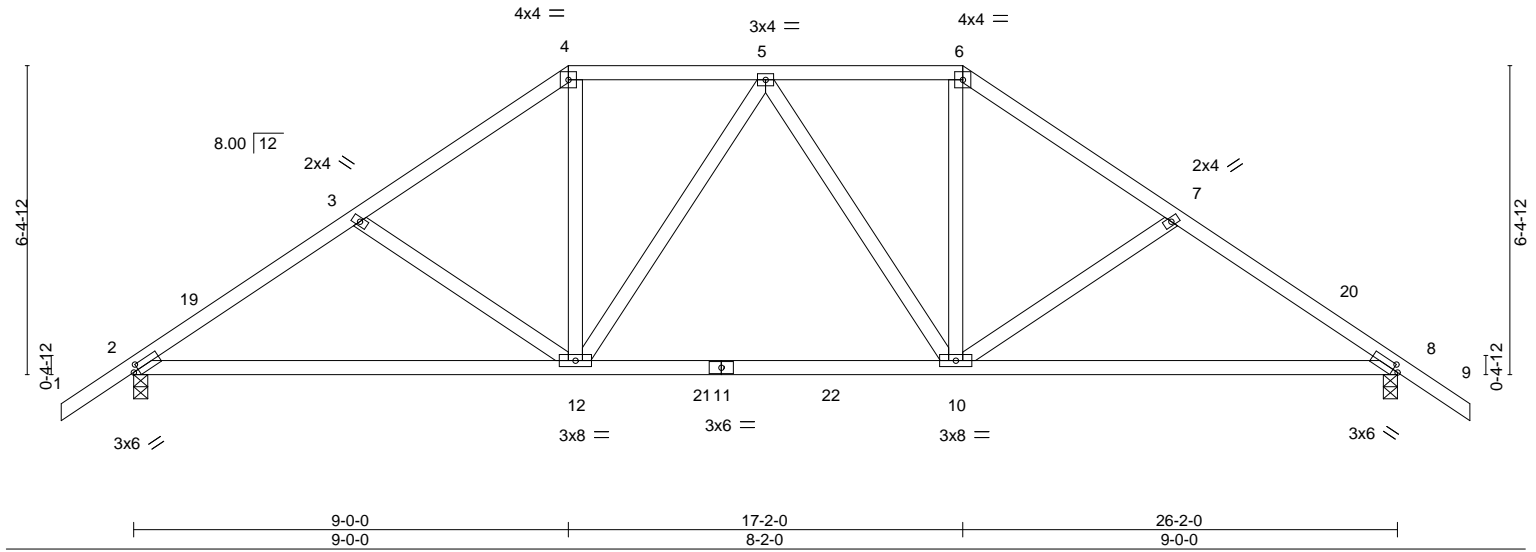
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Scale: 1/4"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.14 10-18 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.29 10-18 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 143 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-13 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=-155(LC 10)
Max Uplift	2=-235(LC 12), 8=-235(LC 13)
Max Grav	2=1120(LC 2), 8=1120(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1517/315, 3-4=-1339/271, 4-5=-1071/265, 5-6=-1071/265, 6-7=-1339/271, 7-8=-1517/315
BOT CHORD	2-12=-273/1279, 10-12=-149/1134, 8-10=-169/1248
WEBS	3-12=-293/171, 4-12=-77/548, 6-10=-76/548, 7-10=-294/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 13-1-0, Interior(1) 13-1-0 to 17-2-0, Exterior(2R) 17-2-0 to 21-7-6, Interior(1) 21-7-6 to 27-8-0 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) 2=235, 8=235.

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Date:

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

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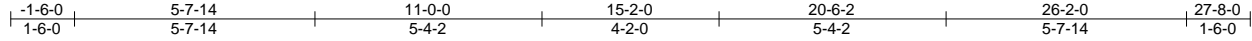
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080942
3458582	T03	Hip	1	1	Job Reference (optional)	

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

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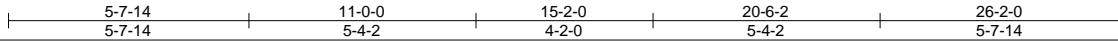
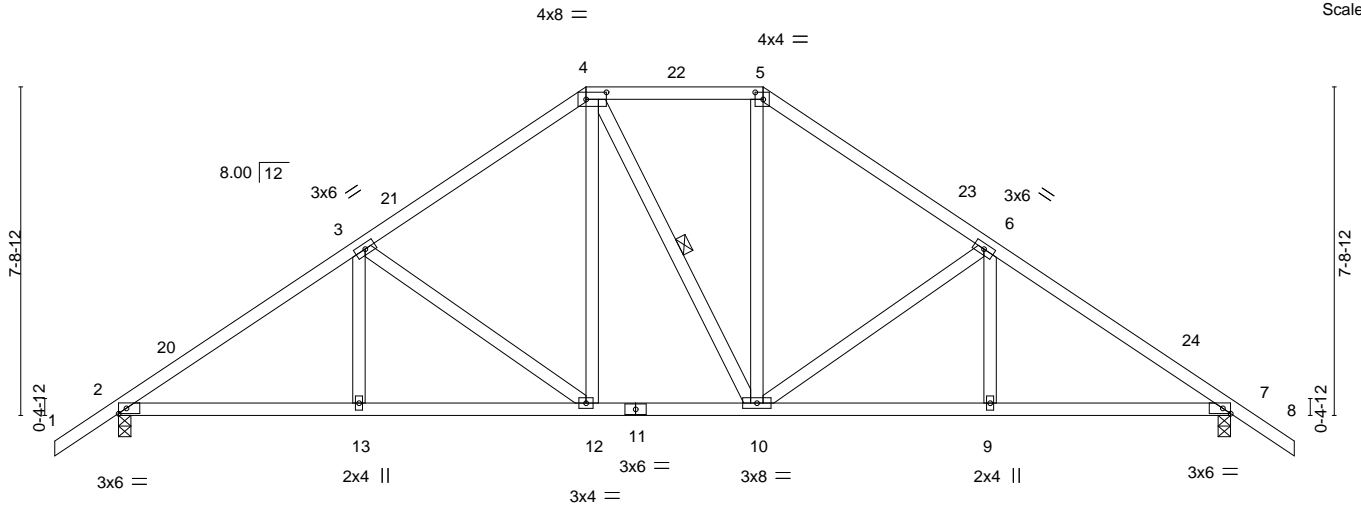


Plate Offsets (X,Y)-- [4:0-5-12,0-2-0], [5:0-2-4,0-2-0], [7:0-2-3,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.29	Vert(LL)	-0.05	12	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25		BC 0.39	Vert(CT)	-0.10	12-13	>999		
BCLL 0.0 *	Lumber DOL 1.25		WB 0.36	Horz(CT)	0.04	7	n/a		
BCDL 10.0	Rep Stress Incr YES		Matrix-MS						
	Code FBC2020/TPI2014							Weight: 153 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 4-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
Max Horz 2=184(LC 11)
Max Uplift 2=230(LC 12), 7=230(LC 13)
Max Grav 2=1049(LC 1), 7=1049(LC 1)

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

TOP CHORD 2-3=-1456/286, 3-4=-1088/254, 4-5=-836/256, 5-6=-1089/254, 6-7=-1455/286
BOT CHORD 2-13=-259/1151, 12-13=-259/1151, 10-12=-98/835, 9-10=-135/1151, 7-9=-135/1151
WEBS 3-12=-422/198, 4-12=-84/347, 5-10=-77/348, 6-10=-421/199

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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(2E) 11-0-0 to 15-2-0, Exterior(2R) 15-2-0 to 19-4-15, Interior(1) 19-4-15 to 27-8-0 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) 2=230, 7=230.

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

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

March 20,2023

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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



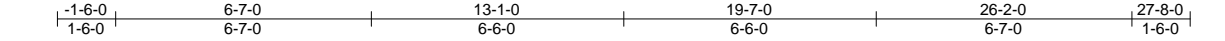
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080943
3458582	T04	Common	2	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:55 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-TF?MDYWOirCP6__mnkOwGvR59qq4KrXGfIb7Vza4Vw



4x6 ||

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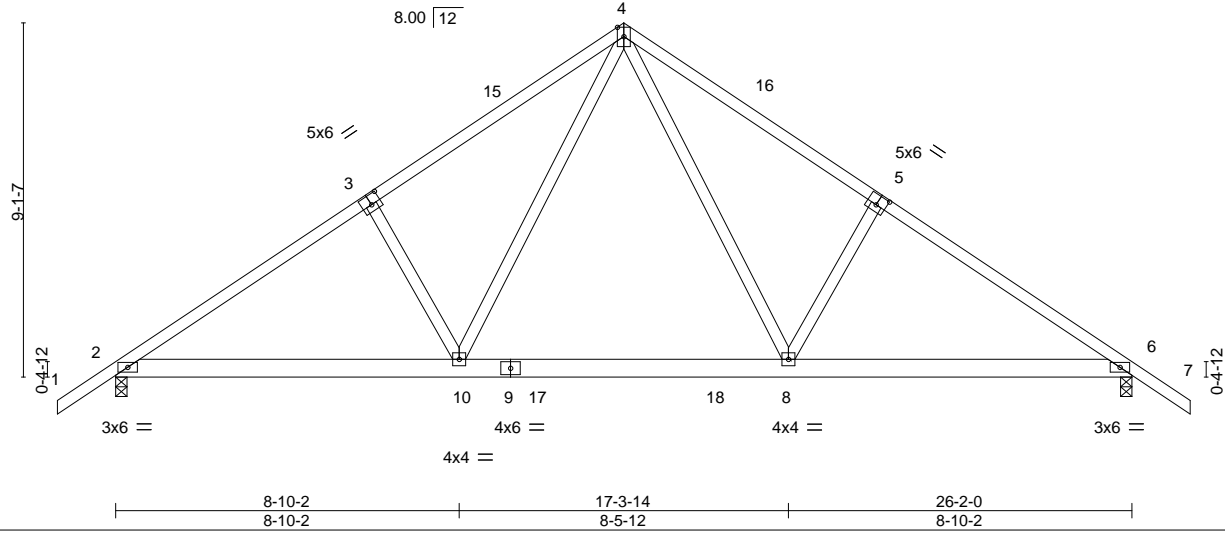


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.15	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.27	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 155 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 3-5-14 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=214(LC 11)
Max Uplift 2=-293(LC 12), 6=-293(LC 13)
Max Grav 2=1439(LC 19), 6=1439(LC 20)

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

TOP CHORD 2-3=-2071/413, 3-4=-1958/466, 4-5=-1958/466, 5-6=-2071/413
BOT CHORD 2-10=-372/1808, 8-10=-139/1181, 6-8=-248/1670
WEBS 4-8=-273/1066, 5-8=-338/240, 4-10=-273/1066, 3-10=-338/240

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 13-1-0, Exterior(2R) 13-1-0 to 16-1-0, Interior(1) 16-1-0 to 27-8-0 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=293, 6=293.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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

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

March 20,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080944
3458582	T05	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:57 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-Pe77eEYeESS7MI78u9QOLKWRceWNolpZ9ZEiCNza4Vu
19-7-0
26-2-0
6-7-0

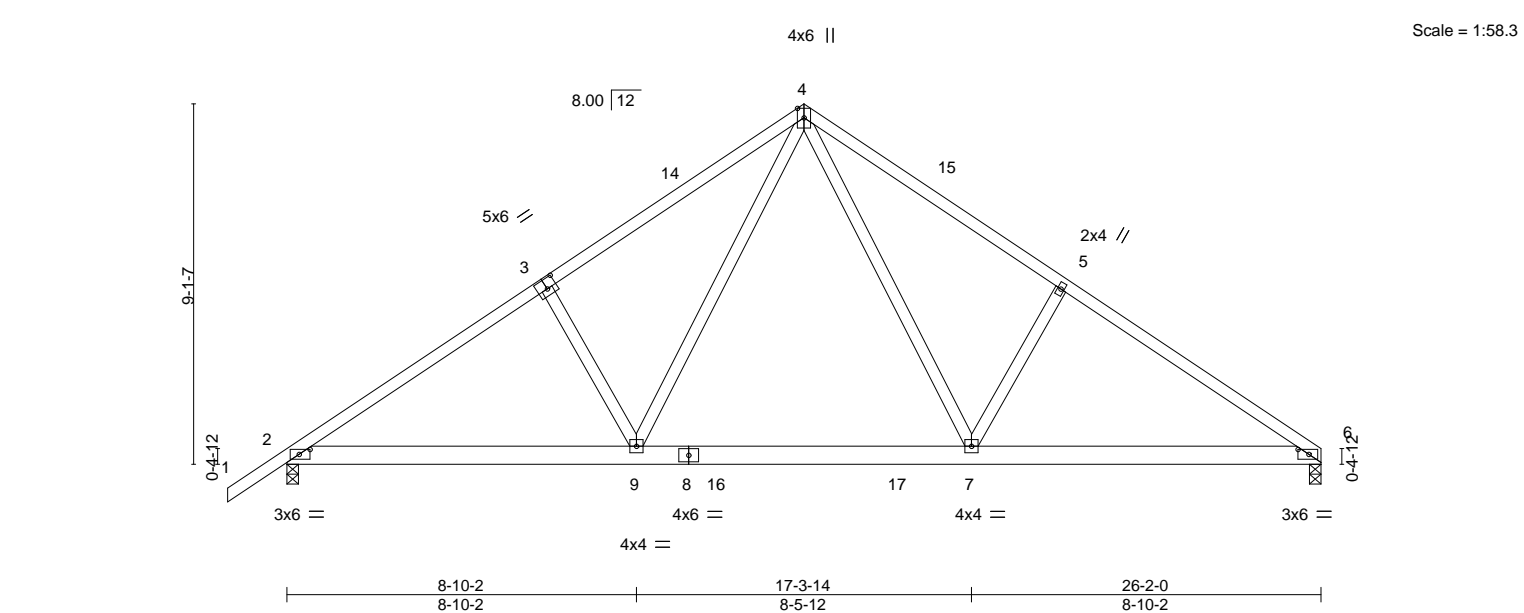


Plate Offsets (X,Y)-- [2:0-3-5,0-1-8], [3:0-3-0,0-3-0], [6:0-3-5,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	in (loc)	I/defl	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(LL)	-0.15 7-9 >999		244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Vert(CT)	-0.27 7-9 >999		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Horz(CT)	0.04 6 n/a n/a		
								Weight: 153 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-5-14 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=207(LC 11)
Max Uplift 6=260(LC 13), 2=294(LC 12)
Max Grav 6=1362(LC 20), 2=1440(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2073/414, 3-4=-1960/467, 4-5=-1970/474, 5-6=-2081/420
BOT CHORD 2-9=-388/1799, 7-9=-155/1172, 6-7=-269/1664
WEBS 4-7=-281/1078, 5-7=-341/241, 4-9=-273/1065, 3-9=-338/240

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 13-1-0, Exterior(2R) 13-1-0 to 16-1-0, Interior(1) 16-1-0 to 26-2-0 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) 6=260, 2=294.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

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

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

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080945
3458582	T06	Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023
MiTek Industries, Inc.
Fri Mar 17 08:49:59 2023
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, 2-9=-20

Concentrated Loads (lb)

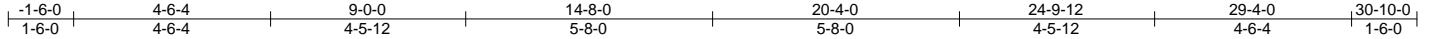
Vert: 4=-18(F) 7=-91(F) 13=-156(F) 14=-426(F) 12=-156(F) 11=-426(F) 19=-18(F) 20=-18(F) 21=-18(F) 22=-18(F) 23=-18(F) 24=-18(F) 25=-18(F) 26=-156(F) 27=-156(F) 28=-156(F) 29=-156(F) 30=-156(F)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080946
3458582	T07	Hip	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:01 2023 Page 1

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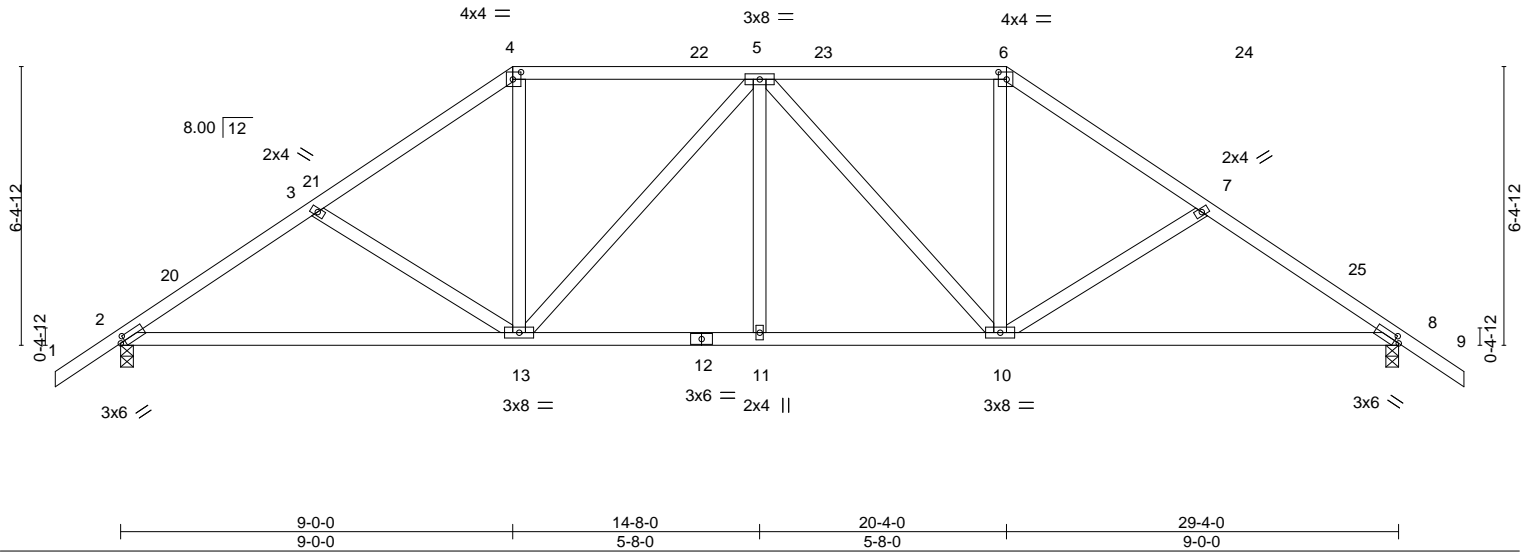


Plate Offsets (X,Y)-- [2:0-1-5,0-1-8], [4:0-2-4,0-2-0], [6:0-2-4,0-2-0], [8:0-1-5,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL)	-0.15 10-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.71	Vert(CT)	-0.31 10-19	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 164 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=155(LC 10)
Max Uplift 2=262(LC 12), 8=262(LC 13)
Max Grav 2=1166(LC 1), 8=1166(LC 1)

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

TOP CHORD 2-3=-1635/365, 3-4=-1426/318, 4-5=-1134/307, 5-6=-1134/307, 6-7=-1426/318, 7-8=-1635/365
BOT CHORD 2-13=-317/1332, 11-13=-226/1325, 10-11=-226/1325, 8-10=-212/1332
WEBS 3-13=-276/169, 4-13=-84/510, 5-13=-362/163, 5-10=-362/163, 6-10=-83/510, 7-10=-276/170

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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) 2=262, 8=262.

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

March 20,2023

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

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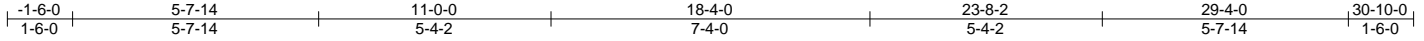
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080947
3458582	T08	Hip	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:02 2023 Page 1

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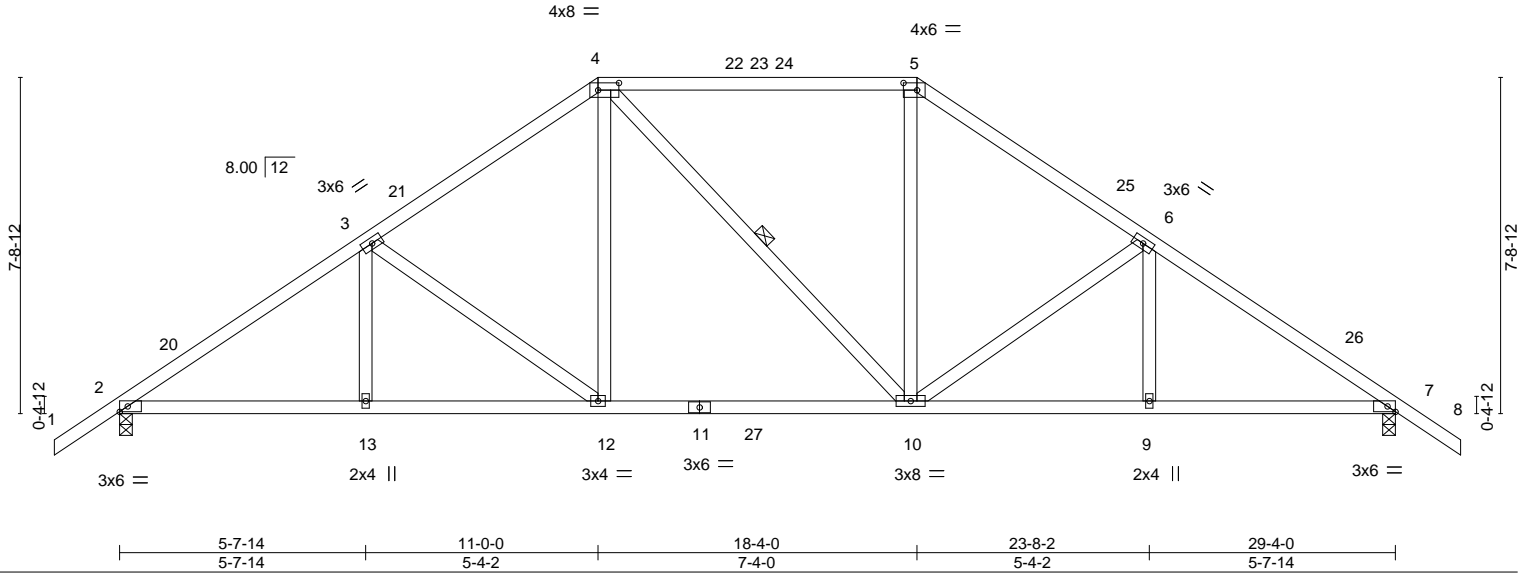


Plate Offsets (X,Y)-- [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [7:0-2-3,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL)	-0.13	10-12	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.22	10-12	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.06	7	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 165 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 3-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
Max Horz 2=184(LC 10)
Max Uplift 2=257(LC 12), 7=257(LC 13)
Max Grav 2=1253(LC 2), 7=1247(LC 2)

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

TOP CHORD 2-3=1800/334, 3-4=1432/302, 4-5=1133/297, 5-6=1419/302, 6-7=1789/335
BOT CHORD 2-13=298/1517, 12-13=298/1517, 10-12=140/1143, 9-10=174/1440, 7-9=174/1440
WEBS 3-12=472/195, 4-12=71/544, 5-10=60/500, 6-10=474/195

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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) 2=257, 7=257.

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

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

March 20,2023

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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 - 1841	T30080948
3458582	T09	Hip	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023
MiTek Industries, Inc.
Fri Mar 17 08:50:04 2023
Page 1
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6-6-10
6-6-10
13-0-0
6-5-6
16-4-0
3-4-0
22-9-6
6-5-6
29-4-0
6-6-10

4x8 =
4x4 =

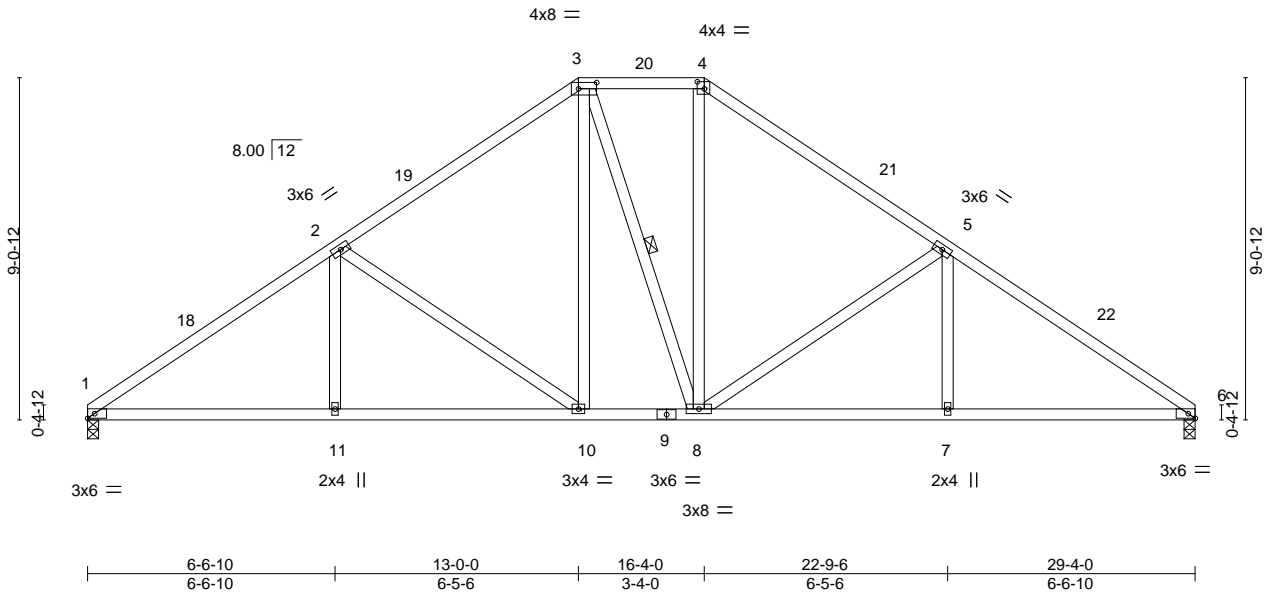


Plate Offsets (X,Y)--		[3:0-5-12,0-2-0], [4:0-2-4,0-2-4], [6:0-2-3,Edge]									
LOADING	(psf)	SPACING-		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.06 10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.15 10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.06 6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 169 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-8

REACTIONS. (size) 1=0-3-8, 6=0-3-8
Max Horz 1=-192(LC 8)
Max Uplift 1=-220(LC 12), 6=-220(LC 13)
Max Grav 1=1085(LC 1), 6=1085(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1657/329, 2-3=-1197/280, 3-4=-910/286, 4-5=-1198/280, 5-6=-1657/329
BOT CHORD 1-11=-320/1314, 10-11=-320/1314, 8-10=-117/909, 7-8=-191/1313, 6-7=-191/1313
WEBS 2-11=0/287, 2-10=-525/248, 3-10=-105/380, 4-8=-102/381, 5-8=-523/248, 5-7=0/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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) except (jt=lb) 1=220, 6=220.

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

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

March 20,2023



Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080949
3458582	T10	Common	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:05 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-AAc8KzefLwS_JWlhMraGg0roqsGSgPql?pa7Uvza4Vm

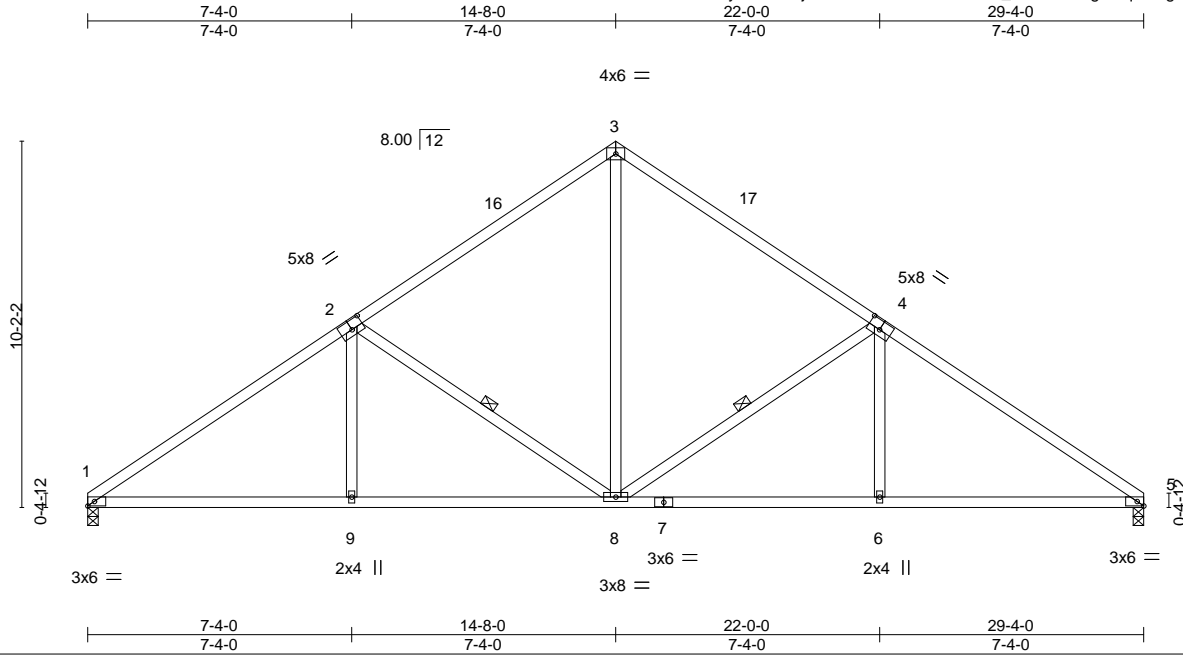


Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [4:0-4-0,0-3-0], [5:0-2-3,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	0.08	9-12	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.58	Vert(CT)	-0.17	9-12	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.31	Horz(CT)	0.05	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 150 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 5=0-3-8
Max Horz 1=-215(LC 8)
Max Uplift 1=-214(LC 12), 5=-214(LC 13)
Max Grav 1=1085(LC 1), 5=1085(LC 1)

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

TOP CHORD 1-2=-1632/316, 2-3=-1119/293, 3-4=-1119/293, 4-5=-1632/316
BOT CHORD 1-9=-318/1291, 8-9=-317/1293, 6-8=-186/1289, 5-6=-187/1286
WEBS 3-8=-165/747, 4-8=-587/281, 4-6=0/309, 2-8=-586/281, 2-9=0/309

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 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.
- 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=214, 5=214.

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

March 20,2023

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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 - 1841	T30080950
3458582	T11	Common	2	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:07 2023 Page 1
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-7ZkvkfgvtXiiYqu3UFcklRx82gzP88e1T7fEYoza4V/k

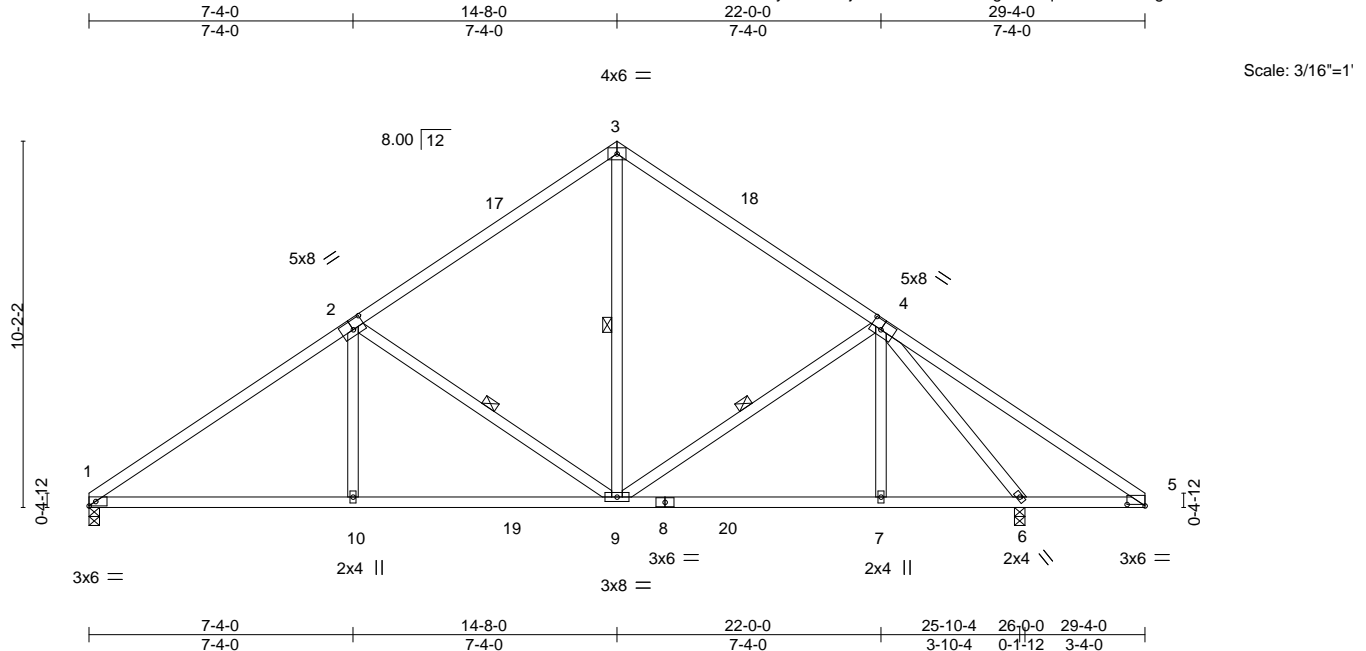


Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [4:0-3-8,0-3-0], [5:0-6-0,0-0-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	0.15 10-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.16 10-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 159 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 4-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-9, 3-9, 4-9

REACTIONS.

(size) 1=0-3-8, 6=0-3-8
Max Horz 1=215(LC 9)
Max Uplift 1=194(LC 12), 6=242(LC 13)
Max Grav 1=945(LC 1), 6=1226(LC 1)

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

TOP CHORD 1-2=-1382/1040, 2-3=-870/716, 3-4=-869/714, 4-5=-140/348
BOT CHORD 1-10=-804/1115, 9-10=-809/1118, 7-9=-450/643, 6-7=-447/641
WEBS 2-10=-304/307, 2-9=-587/518, 3-9=-636/522, 4-6=-1340/984

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 29-4-0 zone; cantilever right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=194, 6=242.

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

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

March 20,2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080952
3458582	T13	Roof Special	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:10 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-X8P1NgioAS5HPide9O9RN3ZbatwLYqU94tu97za4Vh

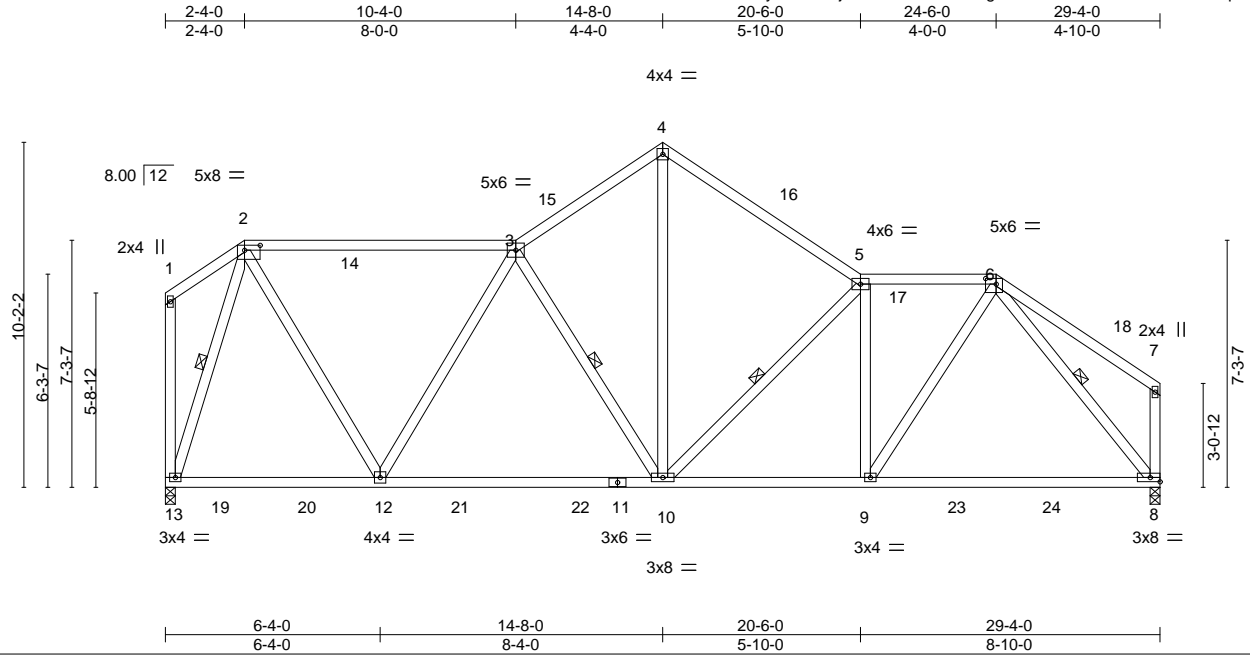


Plate Offsets (X,Y)--		[2:0-5-8,0-1-12], [6:0-3-12,0-2-0]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.25	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.42	8-9	>833	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 206 lb FT = 20%		

LUMBER-

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

REACTIONS.

(size) 13=0-3-8, 8=0-3-8
Max Horz 13=-156(LC 13)
Max Uplift 13=-227(LC 12), 8=-206(LC 13)
Max Grav 13=1223(LC 2), 8=1205(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-848/172, 3-4=-1149/286, 4-5=-1163/272, 5-6=-1251/262
BOT CHORD 12-13=-105/407, 10-12=-203/1140, 9-10=-181/1262, 8-9=-119/765
WEBS 2-12=-122/983, 3-12=-607/180, 3-10=-446/193, 4-10=-184/989, 5-10=-513/203,
5-9=-485/138, 6-9=-107/898, 2-13=-1184/241, 6-8=-1139/187

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-4-0, Exterior(2R) 2-4-0 to 5-4-0, Interior(1) 5-4-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 24-6-0, Exterior(2R) 24-6-0 to 27-6-0, Interior(1) 27-6-0 to 29-2-4 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) 13=227, 8=206.

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

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

March 20,2023

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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 - 1841	T30080953
3458582	T14	Roof Special	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:12 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-TWXnoMk2i3L_fbn1GpCvSUex_hcopWKmcOM?E?za4Vf

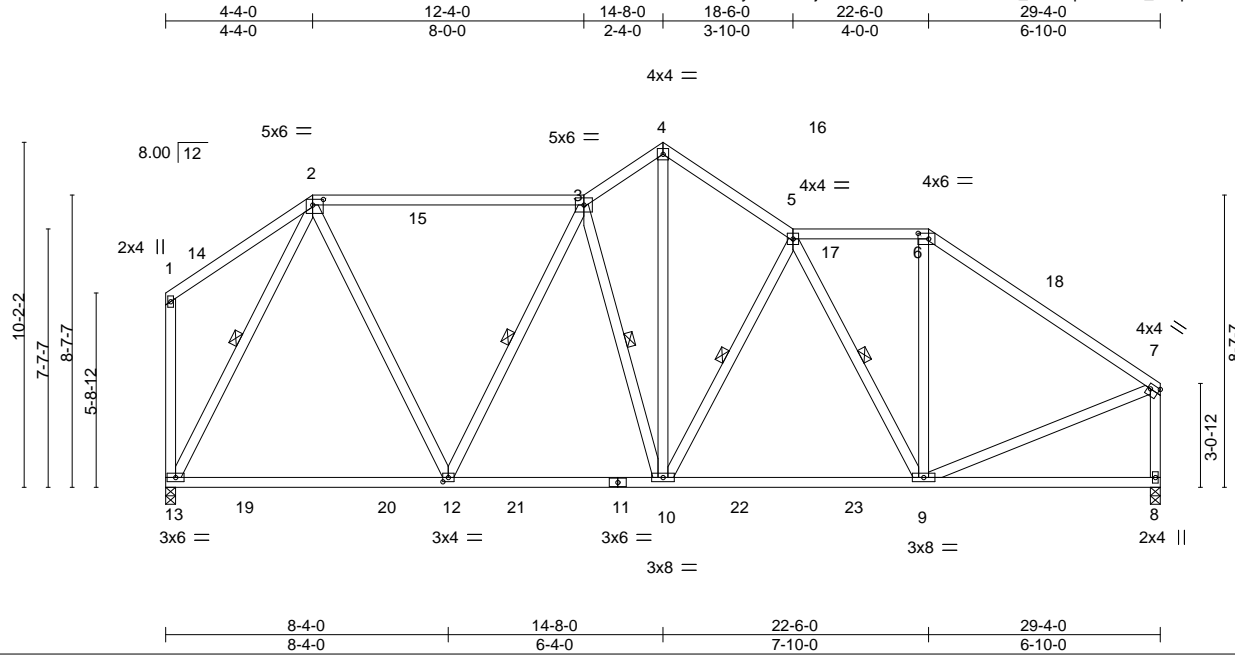


Plate Offsets (X,Y)-- [2:0-3-12,0-2-0], [6:0-3-12,0-2-0], [7:Edge,0-1-12], [12:0-1-15,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.88	Vert(LL)	-0.24 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.80	Vert(CT)	-0.38 12-13	>920	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 216 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 13=0-3-8, 8=0-3-8
Max Horz 13=-156(LC 13)
Max Uplift 13=-227(LC 12), 8=-206(LC 13)
Max Grav 13=1247(LC 2), 8=1207(LC 2)

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

TOP CHORD 2-3=-879/210, 3-4=-1162/310, 4-5=-1162/287, 5-6=-912/241, 6-7=-1172/220, 7-8=-1110/222
BOT CHORD 12-13=-102/551, 10-12=-159/1068, 9-10=-151/1124
WEBS 2-12=-98/815, 3-12=-443/152, 3-10=-510/220, 4-10=-259/1119, 5-10=-414/211, 5-9=-454/112, 6-9=-19/380, 2-13=-1127/215, 7-9=-97/927

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-4-0, Exterior(2R) 4-4-0 to 7-4-0, Interior(1) 7-4-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 22-6-0, Exterior(2R) 22-6-0 to 25-6-0, Interior(1) 25-6-0 to 29-2-4 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) 13=227, 8=206.

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

March 20,2023

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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 - 1841	T30080954
3458582	T15	Roof Special	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:14 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-PvFYC2IEhbiuvxQODENXvjGuUHvHTJ34ir6luza4Vd

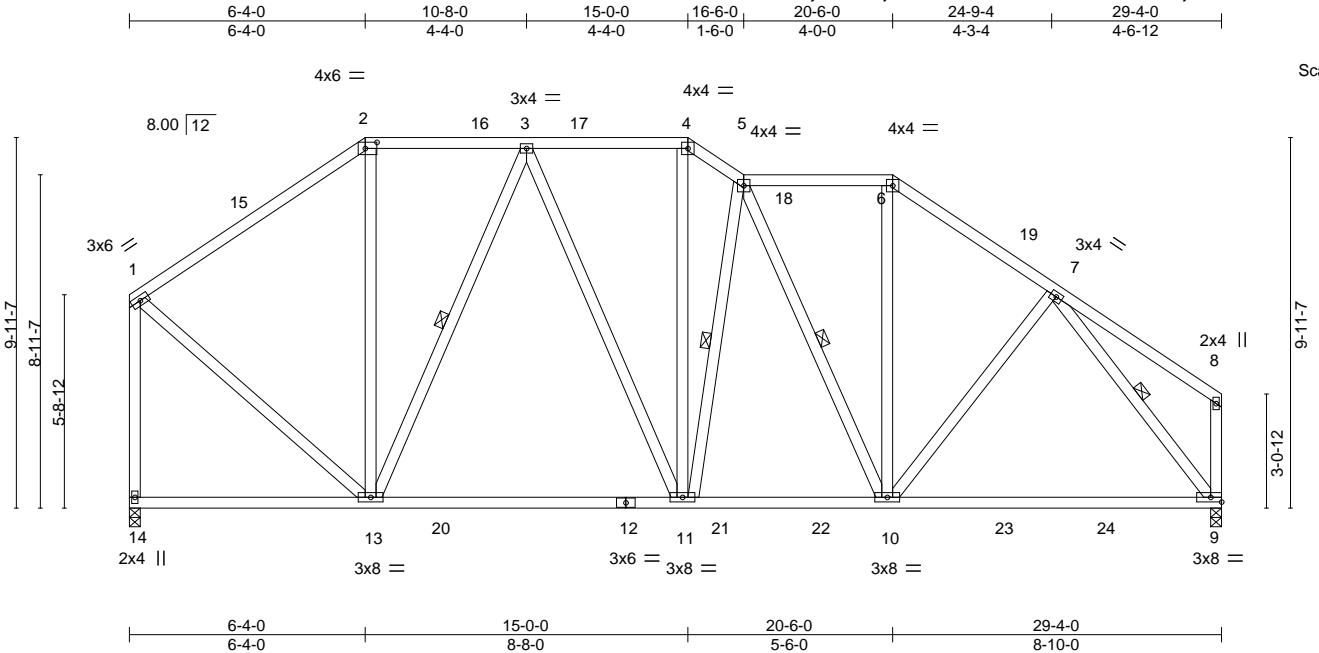


Plate Offsets (X,Y)-- [2:0-3-12,0-2-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.85	Vert(LL) -0.27	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.88	Vert(CT) -0.45	9-10	>772	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.03	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 234 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 14=0-3-8, 9=0-3-8
Max Horz 14=-154(LC 13)
Max Uplift 14=-156(LC 13), 9=-205(LC 13)
Max Grav 14=1218(LC 2), 9=1233(LC 2)

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

TOP CHORD 1-2=-873/193, 2-3=-667/214, 3-4=-961/269, 4-5=-1150/304, 5-6=-912/250,
6-7=-1147/262, 1-14=-1142/231
BOT CHORD 11-13=-164/856, 10-11=-133/1037, 9-10=-125/772
WEBS 2-13=-39/279, 3-13=-510/172, 3-11=-86/310, 4-11=-104/488, 5-11=-450/224,
5-10=-310/131, 6-10=-54/421, 7-10=-77/262, 1-13=-109/859, 7-9=-1178/208

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 15-0-0, Exterior(2E) 15-0-0 to 16-6-0, Interior(1) 16-6-0 to 20-6-0, Exterior(2R) 20-6-0 to 23-6-0, Interior(1) 23-6-0 to 29-2-4 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) 14=156, 9=205.

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

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

March 20,2023

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

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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 - 1841	T30080956
3458582	T17	Roof Special Girder	1	2	Job Reference (optional)	

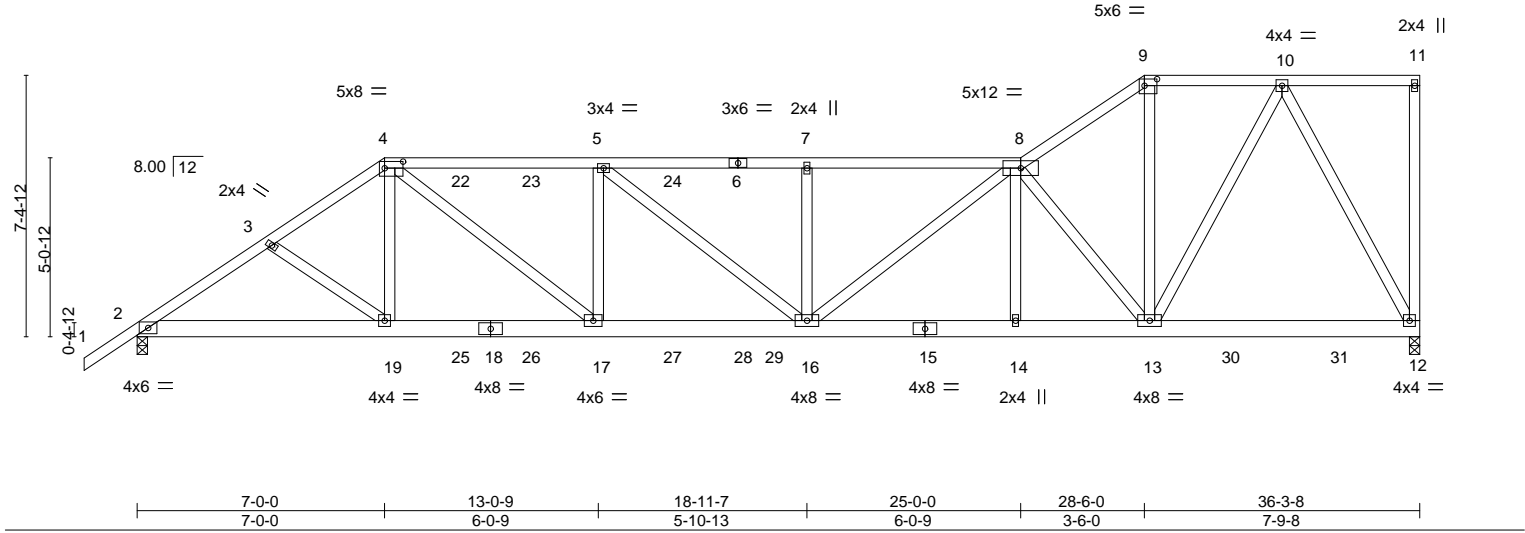
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:18 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-Igu32PopHv58NWEBd3lJhlu0E5k?DB5f_KpJRfza4VZ



Scale = 1:65.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.22 16-17 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.39 16-17 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07 12 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 517 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 12=0-3-8, 2=0-3-8
Max Horz 2=271(LC 23)
Max Uplift 12=-768(LC 8), 2=-1165(LC 8)
Max Grav 12=2478(LC 2), 2=3050(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5080/1987, 3-4=-4928/1966, 4-5=-6265/2436, 5-7=-6767/2453, 7-8=-6767/2453,
8-9=-2823/909, 9-10=-2336/797
BOT CHORD 2-19=-1835/4180, 17-19=-1758/4089, 16-17=-2517/6265, 14-16=-1709/4812,
13-14=-1711/4814, 12-13=-410/1230
WEBS 4-19=-344/794, 4-17=-1005/2753, 5-17=-798/276, 5-16=-61/670, 7-16=-352/185,
8-16=-1044/2474, 8-13=-4091/1503, 9-13=-440/1383, 10-13=-821/2367, 10-12=-2596/869

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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, 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) 12=768, 2=1165.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 51 lb up at 7-0-0, 70 lb down and 49 lb up at 9-0-12, 70 lb down and 49 lb up at 11-0-12, 70 lb down and 49 lb up at 13-0-12, and 70 lb down and 49 lb up at 15-0-12, and 70 lb down and 49 lb up at 17-0-12 on top chord, and 426 lb down and 291 lb up at 7-0-0, 156 lb down and 99 lb up at 9-0-12, 156 lb down and 99 lb up at 11-0-12, 156 lb down and 99 lb up at 13-0-12, 156 lb down and 99 lb up at 15-0-12, and 156 lb down and 99 lb up at 17-0-12, and 1427 lb down and 492 lb up at 17-11-4 on bottom chord. The

Design of such connection device(s) is the responsibility of others.

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

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

March 20,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080956
3458582	T17	Roof Special Girder	1	2	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:19 2023 Page 2
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-mtSRGlpR2DD??gpNBnqYEzQB_V4EyeLoD_Zt_6za4VY

LOAD CASE(S) Standard

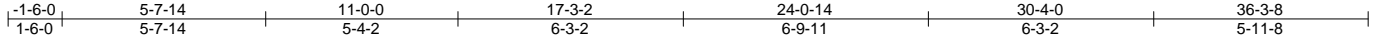
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-4=-54, 4-8=-54, 8-9=-54, 9-11=-54, 2-12=-20
- Concentrated Loads (lb)
Vert: 4=-18(B) 6=-18(B) 19=-426(B) 17=-156(B) 5=-18(B) 22=-18(B) 23=-18(B) 24=-18(B) 25=-156(B) 26=-156(B) 27=-156(B) 28=-156(B) 29=-1427(B)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080958
3458582	T19	Hip	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:22 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-BS8ZunrKL8bas8YysvNFsb2kpj?Y92NFvynXaQza4VV



Scale: 3/16"=1'

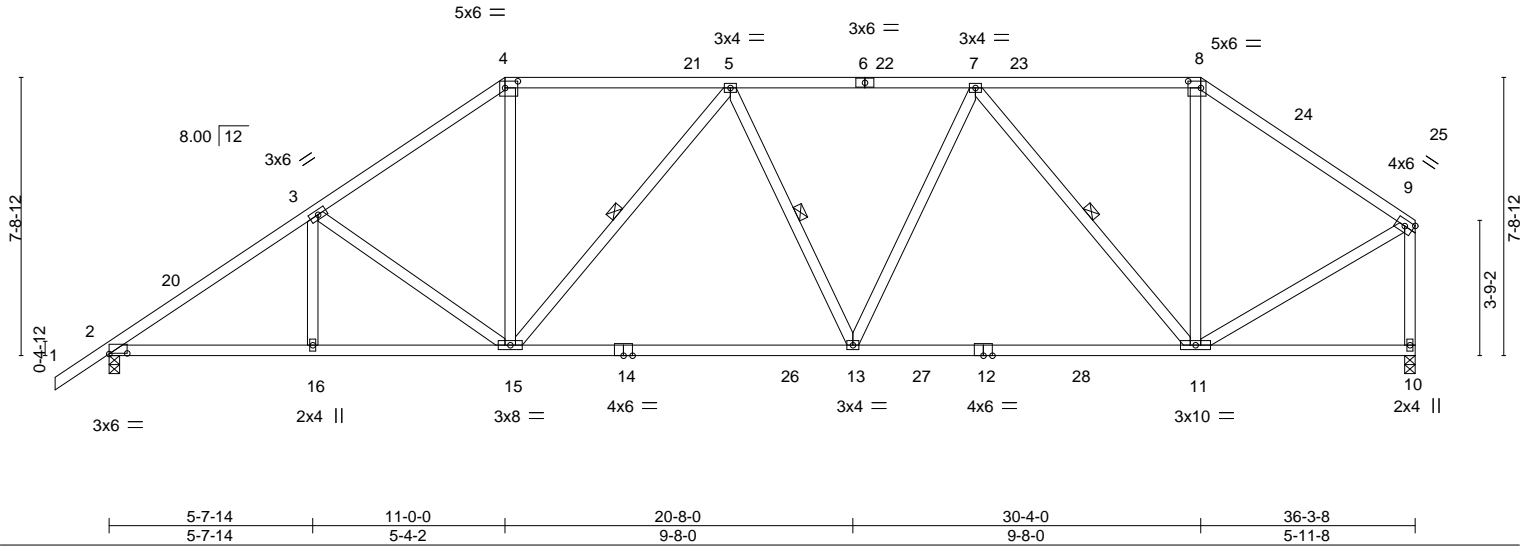


Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [8:0-4-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.47	Vert(LL)	-0.27 13-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT)	-0.46 13-15	>947	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 218 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
12-14: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-1 oc bracing.
WEBS 1 Row at midpt 5-15, 5-13, 7-11

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
Max Horz 2=207(LC 12)
Max Uplift 2=330(LC 12), 10=268(LC 13)
Max Grav 2=1553(LC 2), 10=1503(LC 2)

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

TOP CHORD 2-3=2322/463, 3-4=1976/430, 4-5=1599/404, 5-7=1860/366, 7-8=1056/269, 8-9=1330/255, 9-10=1434/279
BOT CHORD 2-16=487/1882, 15-16=487/1882, 13-15=394/1856, 11-13=340/1661
WEBS 3-15=452/197, 4-15=97/832, 5-15=474/221, 7-13=87/500, 7-11=979/280, 8-11=67/497, 9-11=196/1191

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 11-0-0, Exterior(2R) 11-0-0 to 16-1-9, Interior(1) 16-1-9 to 30-4-0, Exterior(2R) 30-4-0 to 35-5-9, Interior(1) 35-5-9 to 36-1-12 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) 2=330, 10=268.

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

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

March 20,2023

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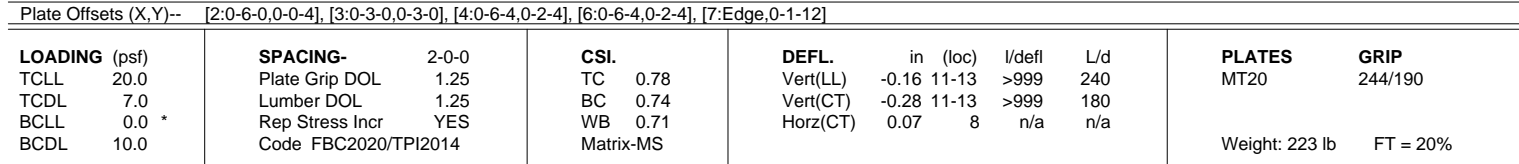
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:23 2023 Page 1
 ID:34H8XGfJR7c5v0mDRjN9AzhEYD-feiy57sy6SjRTH78QuUOpbqm6OCuRzO8cX47tza4VU
 -1-6-0 6-4-0 13-0-0 20-8-0 28-4-0 36-3-8
 1-6-0 6-4-0 6-8-0 7-8-0 7-8-0 7-11-8



REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=226(LC 12)
 Max Uplift 2=-326(LC 12), 8=-264(LC 13)
 Max Grav 2=1549(LC 2), 8=1498(LC 2)

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

TOP CHORD	2-3=-2306/451, 3-4=-1841/406, 4-5=-1578/361, 5-6=-1578/361, 6-7=-1426/272, 7-8=-1378/283
BOT CHORD	2-14=-489/1870, 13-14=-490/1866, 11-13=-293/1466, 9-11=-142/1104
WEBS	3-14=0/262, 3-13=-581/236, 4-13=-83/620, 4-11=-182/286, 5-11=-475/238, 6-11=-227/766, 7-9=-173/1150

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 13-0-0, Exterior(2R) 13-0-0 to 18-1-9, Interior(1) 18-1-9 to 28-4-0, Exterior(2R) 28-4-0 to 33-5-9, Interior(1) 33-5-9 to 36-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 8=264.

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

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Date:

March 20.2023



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080960
3458582	T21	Hip	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:25 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-b0piWouCe3z8jbGXX1xyTEgA5w17MO?hbw0BBIza4VS

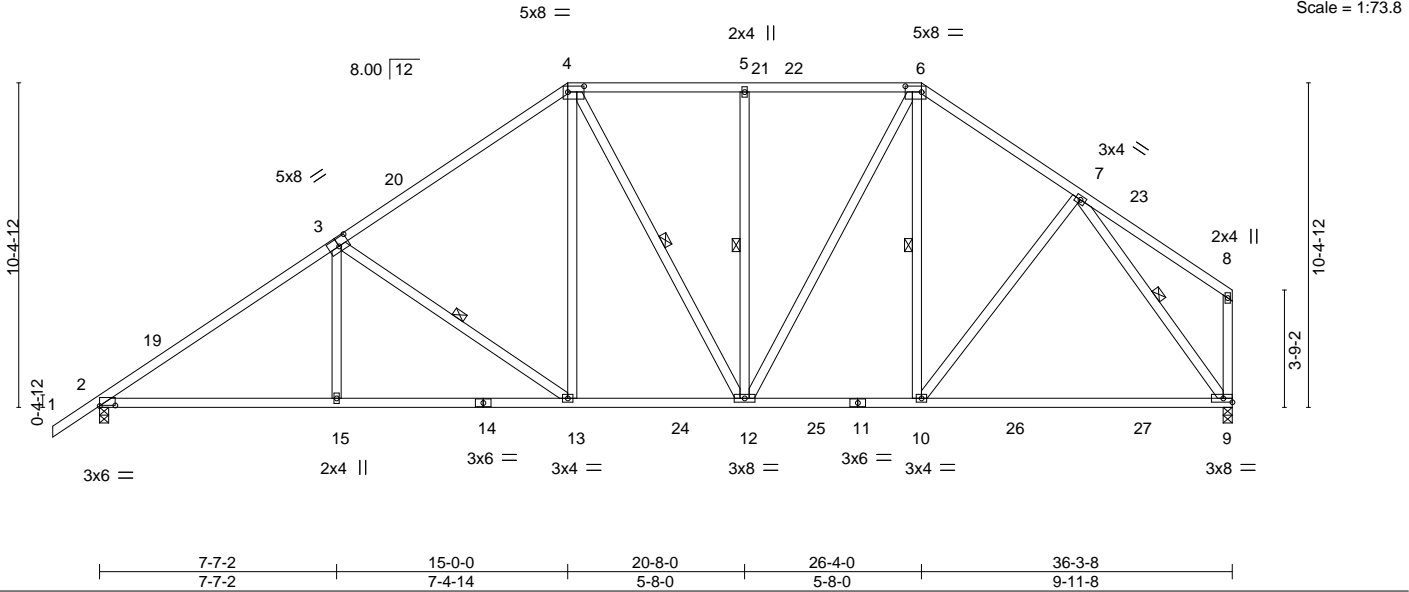
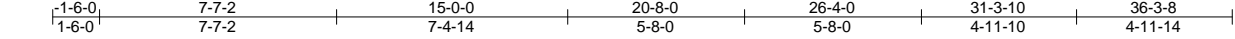


Plate Offsets (X,Y)--		[2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79
TCDL 7.0	Lumber DOL	1.25	BC 0.84
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.39 9-10 >999 240
			Vert(CT) -0.64 9-10 >673 180
			Horz(CT) 0.08 9 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 245 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 8-3-8 oc bracing.
2-14: 2x4 SP No.2	WEBS 1 Row at midpt 3-13, 4-12, 5-12, 6-10, 7-9
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=246(LC 12)
Max Uplift 2=321(LC 12), 9=259(LC 13)
Max Grav 2=1546(LC 2), 9=1537(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2259/434, 3-4=-1704/382, 4-5=-1351/343, 5-6=-1351/343, 6-7=-1424/318
BOT CHORD 2-15=-481/1884, 13-15=-481/1884, 12-13=-252/1339, 10-12=-129/1129, 9-10=-146/921
WEBS 3-15=0/320, 3-13=-700/278, 4-13=-110/672, 5-12=-349/177, 6-12=-187/513, 7-10=-100/396, 7-9=-1491/250

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 15-0-0, Exterior(2R) 15-0-0 to 20-1-9, Interior(1) 20-1-9 to 26-4-0, Exterior(2R) 26-4-0 to 31-4-11, Interior(1) 31-4-11 to 36-1-12 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) 2=321, 9=259.

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

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 20,2023



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080961
3458582	T22	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:27 2023 Page 1
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-XPxSxUvSAGesyyvQvfSzQZfmWbkjbqIV_3EVIgeza4VQ
1-6-0 7-7-2 15-0-0 20-8-0 26-4-0 31-3-10 36-3-8
1-6-0 7-7-2 7-4-14 5-8-0 5-8-0 4-11-10 4-11-14

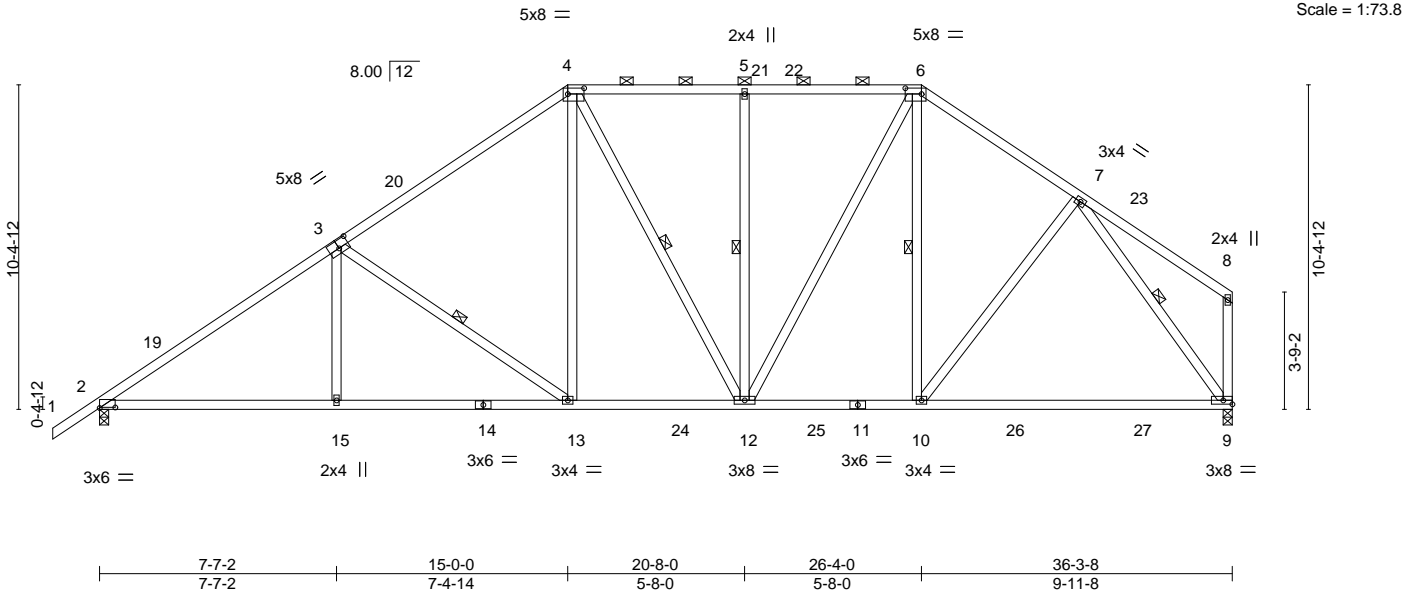


Plate Offsets (X,Y)--		[2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79
TCDL 7.0	Lumber DOL	1.25	BC 0.84
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.39 9-10 >999 240
			Vert(CT) -0.64 9-10 >673 180
			Horz(CT) 0.08 9 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 245 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 4-6.
BOT CHORD 2x4 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 8-3-8 oc bracing.
2-14: 2x4 SP No.2	WEBS 1 Row at midpt 3-13, 4-12, 5-12, 6-10, 7-9
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=246(LC 12)
Max Uplift 2=321(LC 12), 9=259(LC 13)
Max Grav 2=1546(LC 2), 9=1537(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2259/434, 3-4=-1704/382, 4-5=-1351/343, 5-6=-1351/343, 6-7=-1424/318
BOT CHORD 2-15=-481/1884, 13-15=-481/1884, 12-13=-252/1339, 10-12=-129/1129, 9-10=-146/921
WEBS 3-15=0/320, 3-13=-700/278, 4-13=-110/672, 5-12=-349/177, 6-12=-187/513, 7-10=-100/396, 7-9=-1491/250

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 15-0-0, Exterior(2R) 15-0-0 to 20-1-9, Interior(1) 20-1-9 to 26-4-0, Exterior(2R) 26-4-0 to 31-4-11, Interior(1) 31-4-11 to 36-1-12 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) 2=321, 9=259.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 20,2023

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 - 1841	T30080962
3458582	T23	Piggyback Base	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:29 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-To3DMAxjilUaBCalmt?ue4rtIXREIDxHWY_OKWza4VO

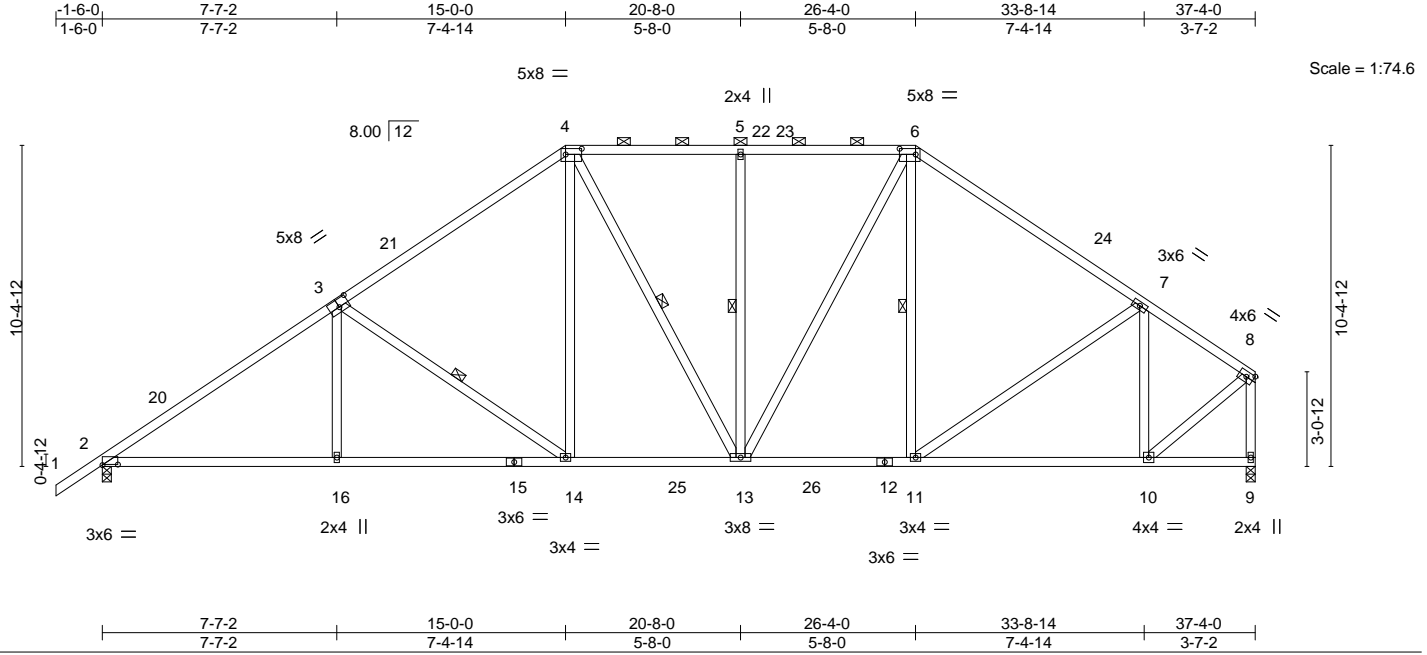


Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL)	-0.12 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.77	Vert(CT)	-0.24 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT)	0.08 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 250 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
Max Horz 2=233(LC 12)
Max Uplift 2=328(LC 12), 9=270(LC 13)
Max Grav 2=1581(LC 2), 9=1523(LC 2)

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

TOP CHORD 2-3=2321/447, 3-4=1764/395, 4-5=1425/356, 5-6=1425/356, 6-7=1544/330,
7-8=1195/230, 8-9=1498/272
BOT CHORD 2-16=477/1934, 14-16=477/1934, 13-14=249/1389, 11-13=138/1203, 10-11=171/991
WEBS 3-16=0/322, 3-14=702/278, 4-14=112/660, 5-13=337/174, 6-13=185/521,
7-11=127/315, 7-10=610/184, 8-10=225/1284

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-2-13, Interior(1) 2-2-13 to 15-0-0, Exterior(2R) 15-0-0 to 20-3-6, Interior(1) 20-3-6 to 26-4-0, Exterior(2R) 26-4-0 to 31-7-6, Interior(1) 31-7-6 to 37-2-4 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) 2=328, 9=270.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 20,2023

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 - 1841	T30080963
3458582	T27	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:31 2023 Page 1
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-QAAznsyzDvkIRWkhul1MjVwGML9Qm4qZ_rTVPPza4VM		

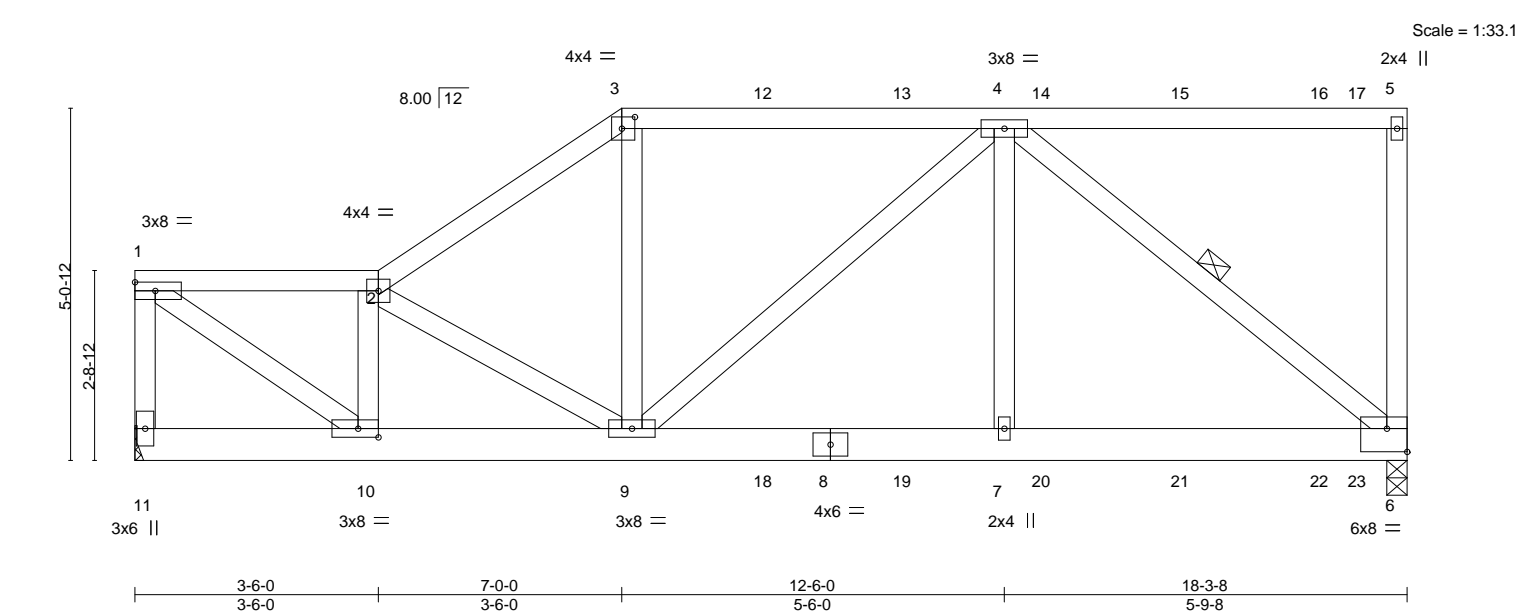


Plate Offsets (X,Y)--		[3:0-2-4,0-2-0], [6:Edge,0-4-0], [10:0-3-8,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d
TCDL 7.0	Plate Grip DOL 1.25	BC 0.53	Vert(LL) 0.06 7-9 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.66	Vert(CT) -0.09 7-9 >999 180
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 6 n/a n/a
	Code FBC2020/TP12014		
		PLATES	GRIP
		MT20	244/190
		Weight: 128 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-11-5 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-6

REACTIONS.	(size) 11=Mechanical, 6=0-3-8
	Max Horz 11=80(LC 8)
	Max Uplift 11=-464(LC 8), 6=-772(LC 5)
	Max Grav 11=1189(LC 1), 6=1648(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-11=-1116/453, 1-2=-1418/569, 2-3=-1724/739, 3-4=-1418/659
BOT CHORD	9-10=-679/1482, 7-9=-617/1349, 6-7=-617/1349
WEBS	1-10=-692/1721, 2-10=-1044/474, 3-9=-287/669, 4-7=-241/696, 4-6=-1718/784

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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.
 - 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) 11=464, 6=772.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 51 lb up at 7-0-0, 70 lb down and 49 lb up at 9-0-12, 70 lb down and 49 lb up at 11-0-12, 70 lb down and 49 lb up at 13-0-12, 70 lb down and 49 lb up at 15-0-12, and 70 lb down and 49 lb up at 17-0-12, and 64 lb down and 51 lb up at 17-7-4 on top chord, and 426 lb down and 291 lb up at 7-0-0, 156 lb down and 99 lb up at 9-0-12, 156 lb down and 99 lb up at 11-0-12, 156 lb down and 99 lb up at 13-0-12, 156 lb down and 99 lb up at 15-0-12, and 156 lb down and 99 lb up at 17-0-12, and 160 lb down and 94 lb up at 17-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-2=-54, 2-3=-54, 3-5=-54, 6-11=-20	

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

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080963
3458582	T27	Roof Special Girder	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:31 2023 Page 2
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-QAAznsyzDvkIRWkhul1MjVwGML9Qm4qZ_rTVPPza4VM

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-18(B) 9=-426(B) 12=-18(B) 13=-18(B) 14=-18(B) 15=-18(B) 16=-18(B) 17=-31(B) 18=-156(B) 19=-156(B) 20=-156(B) 21=-156(B) 22=-156(B) 23=-160(B)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080965
3458582	T29	Half Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:34 2023 Page 1
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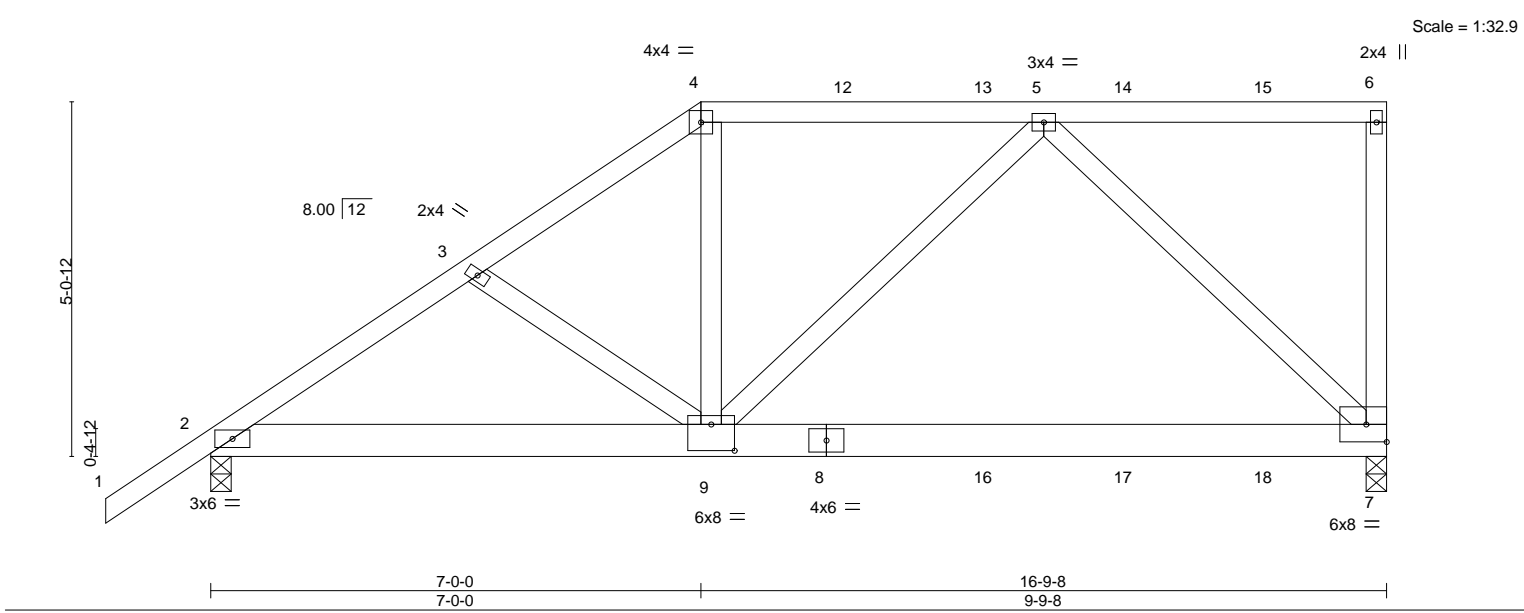
-1-6-0
1-6-0

3-9-11
3-9-11

7-0-0
3-2-5

11-10-12
4-10-12

16-9-8
4-10-12



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.20	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.31				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.02				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 107 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 8-4-14 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=191(LC 27)
Max Uplift 2=-460(LC 5), 7=-764(LC 5)
Max Grav 2=1148(LC 1), 7=1506(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1757/767, 3-4=-1618/768, 4-5=-1324/664
BOT CHORD 2-9=-717/1412, 7-9=-445/857
WEBS 4-9=-307/651, 5-9=-309/684, 5-7=-1149/599

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=460, 7=764.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 51 lb up at 7-0-0, 70 lb down and 49 lb up at 9-0-12, 70 lb down and 47 lb up at 11-0-12, 70 lb down and 49 lb up at 13-0-12, and 70 lb down and 49 lb up at 15-0-12, and 60 lb down and 51 lb up at 16-7-12 on top chord, and 426 lb down and 291 lb up at 7-0-0, 156 lb down and 99 lb up at 9-0-12, 156 lb down and 99 lb up at 11-0-12, 156 lb down and 99 lb up at 13-0-12, and 156 lb down and 99 lb up at 15-0-12, and 163 lb down and 92 lb up at 16-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-7=-20

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

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

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080965
3458582	T29	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023
MiTek Industries, Inc.
Fri Mar 17 08:50:34 2023
Page 2
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-qls6Pt?rWq6tl_SGZQb3L7YIIY6IzMc0gph90kza4VJ

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-18(B) 6=-38(B) 8=-156(B) 9=-426(B) 7=-163(B) 12=-18(B) 13=-18(B) 14=-18(B) 15=-18(B) 16=-156(B) 17=-156(B) 18=-156(B)

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:36 2023 Page 1
 ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-m8_sqZ062RMbXHcegrdXQYd9pMxsR1Ij77AG4cza4VH
 -1-6-0 3-0-0 8-1-12 13-1-12 18-3-8
 1-6-0 3-0-0 5-1-12 5-0-0 5-1-12
 Scale = 1:33.4

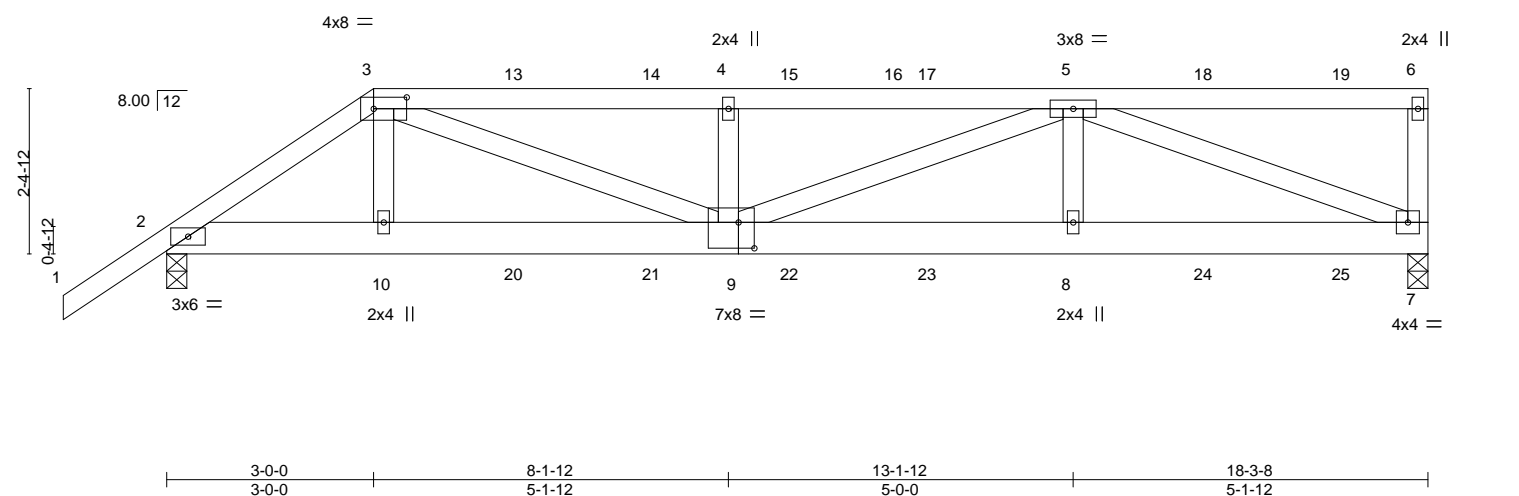


Plate Offsets (X,Y)-- [3:0-5-12,0-2-0], [9:0-2-12,0-4-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.10	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.12	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 106 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2		
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 8-1-10 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=99(LC 8)
Max Uplift 7=-435(LC 5), 2=-394(LC 5)
Max Grav 7=732(LC 1), 2=814(LC 1)

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

TOP CHORD	2-3=-1160/659, 3-4=-1676/1000, 4-5=-1655/986
BOT CHORD	2-10=-562/937, 9-10=-568/948, 8-9=-818/1372, 7-8=-818/1372
WEBS	3-9=-484/796, 4-9=-303/185, 5-9=-190/306, 5-7=-1427/850

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=435, 2=394.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 46 lb up at 3-0-0, 65 lb down and 44 lb up at 5-0-12, 65 lb down and 44 lb up at 7-0-12, 65 lb down and 44 lb up at 9-0-12, 65 lb down and 40 lb up at 11-0-12, 65 lb down and 44 lb up at 13-0-12, and 65 lb down and 44 lb up at 15-0-12, and 65 lb down and 44 lb up at 17-0-12 on top chord, and 94 lb down and 56 lb up at 3-0-0, 22 lb down and 24 lb up at 5-0-12, 22 lb down and 24 lb up at 7-0-12, 22 lb down and 24 lb up at 9-0-12, 22 lb down and 24 lb up at 11-0-12, 22 lb down and 24 lb up at 13-0-12, and 22 lb down and 24 lb up at 15-0-12, and 22 lb down and 24 lb up at 17-0-12 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).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 2-7=-20

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

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

March 20.2023

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.

WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH/473 Rev. 3/19/2020 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/TPH 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 - 1841	T30080966
3458582	T30	Half Hip Girder	1	1	Job Reference (optional)	

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

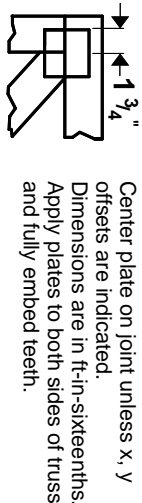
8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:50:36 2023 Page 2
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-m8_sqZ062RMbXHcegrdXQYd9pMxsRI1J77AG4cza4VH

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-6(F) 10=-18(F) 8=-8(F) 5=-6(F) 13=-6(F) 14=-6(F) 15=-6(F) 17=-6(F) 18=-6(F) 19=-6(F) 20=-8(F) 21=-8(F) 22=-8(F) 23=-8(F) 24=-8(F) 25=-8(F)



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.

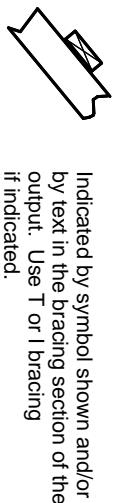
For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

PLATE SIZE

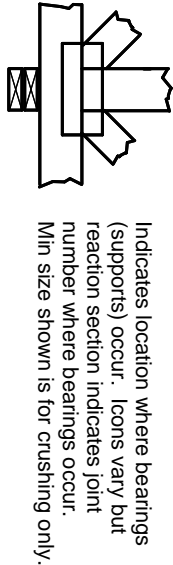
4 X 4

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

LATERAL BRACING LOCATION

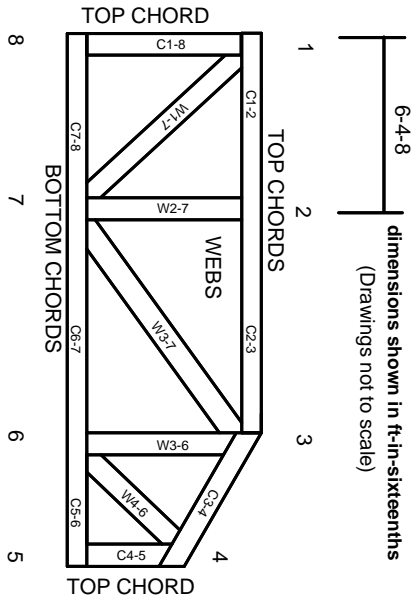


BEARING



Industry Standards:
ANSI/TP1: 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



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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Mittek 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 Tor1 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.