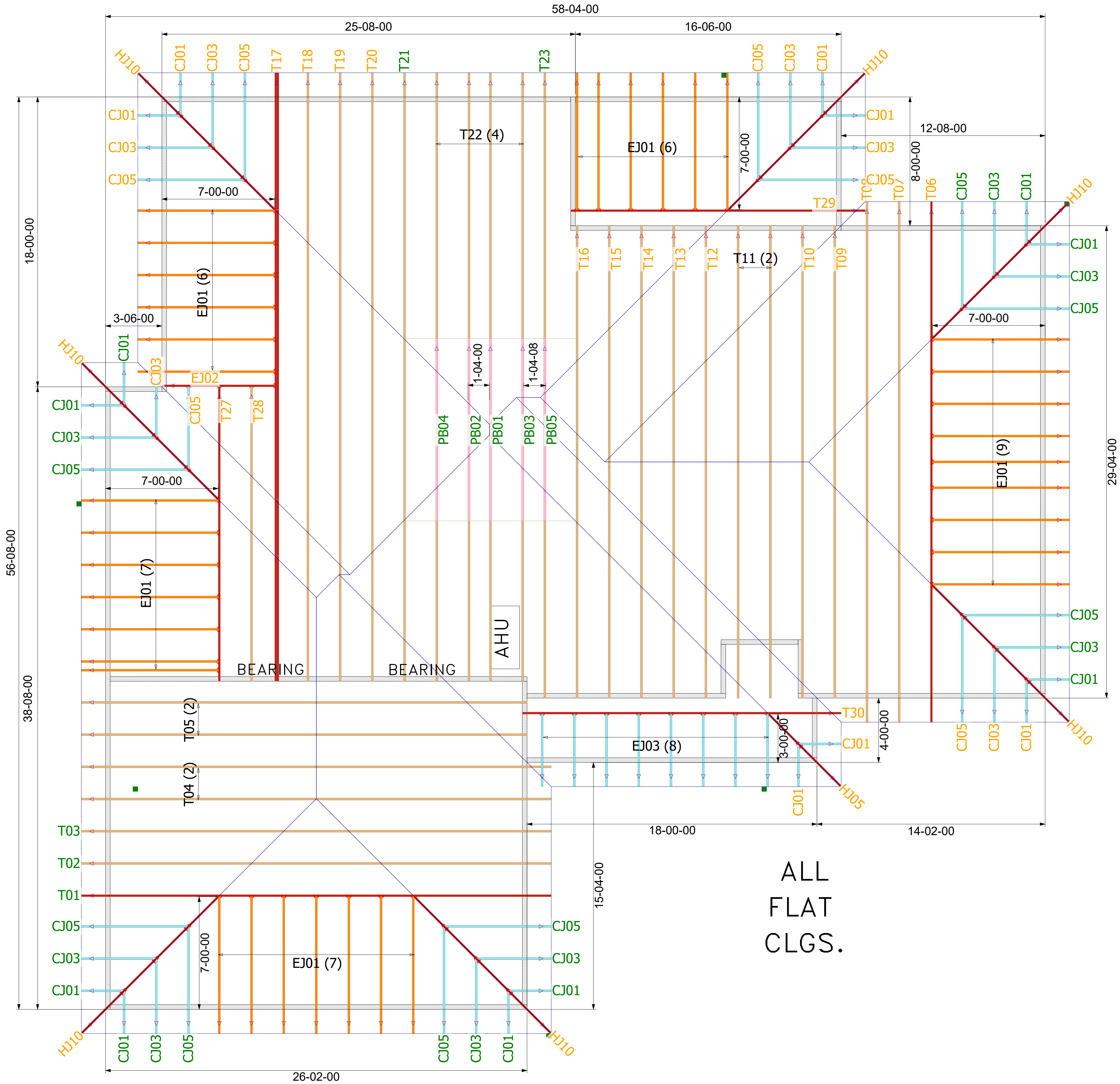
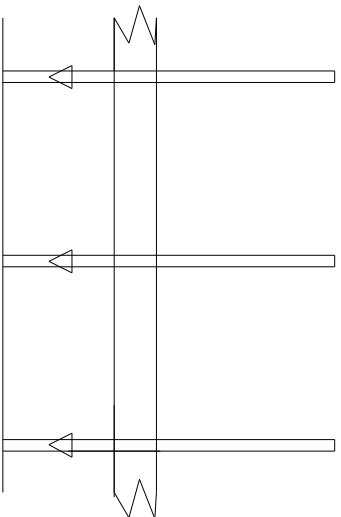


8/12 PITCH – 18” O/H



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:
Lot 2 Kimberly Oaks

Model:
1841

Date:
3-17-23

Drawn By:
KLH

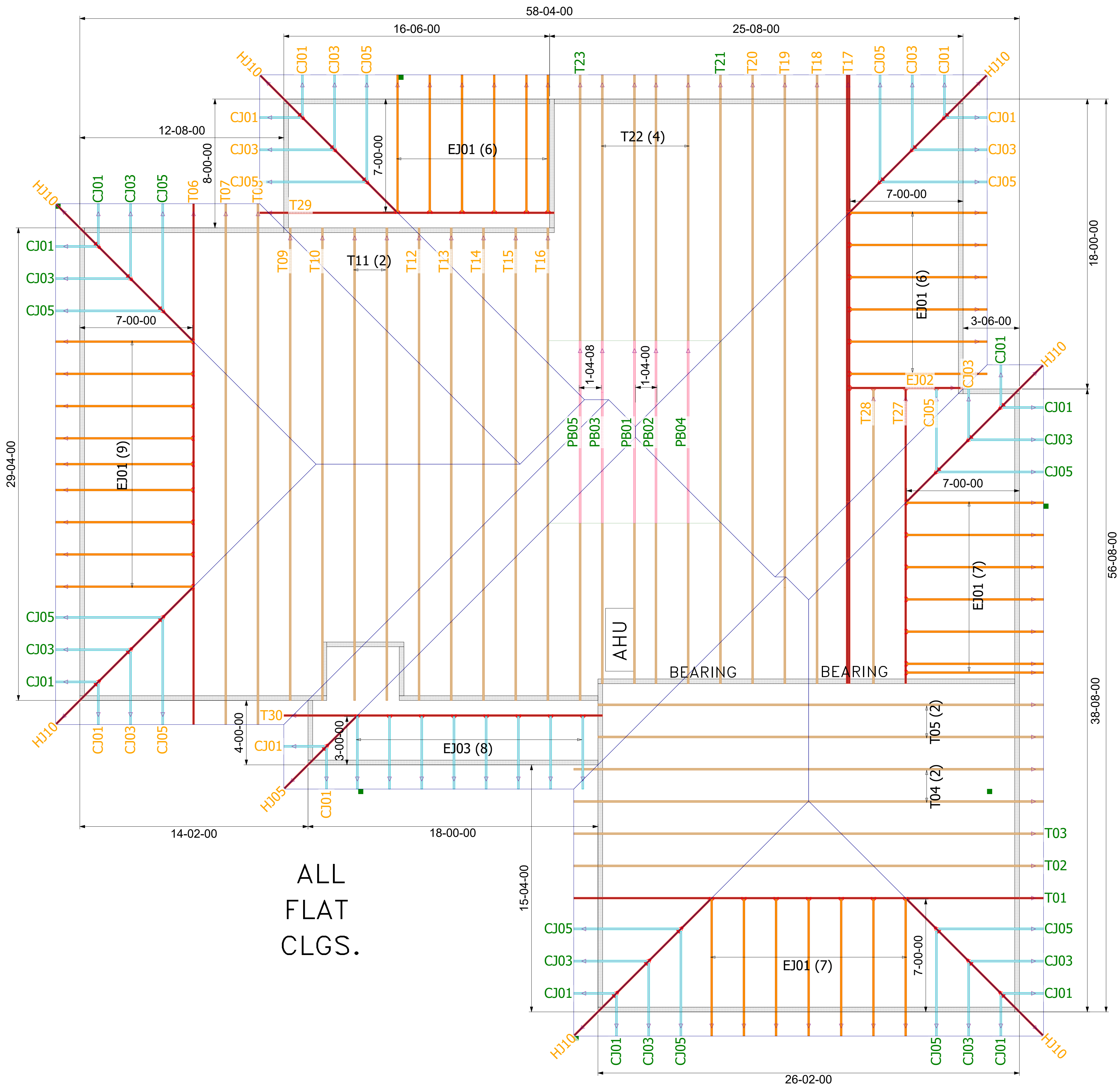
Original Ref #:
3458566

Floor 1 Job#
N/A

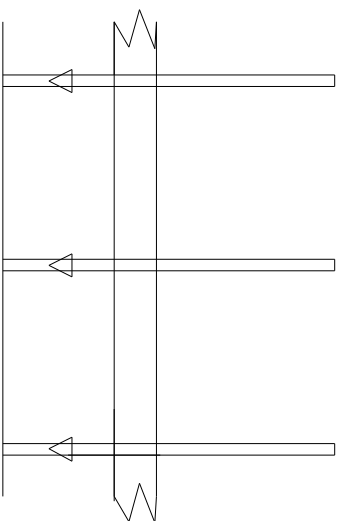
Floor 2 Job#:
N/A

Roof Job #:
3458566

8/12 PITCH – 18” O/H



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: **Lot 2 Kimberly Oaks**

Model: **1841**

Date: **3-17-23** Drawn By: **KLH** Original Ref #: **3458566**

Floor 1 Job#: **N/A** Floor 2 Job#: **N/A** Roof Job #: **3458566**



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

RE: 3458566 - EXCEPTIONS - 1841

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: EXCEPTIONS REALITY Project Name: Spec Hse Model: 1841
Lot/Block: 2 Subdivision: Kimberly Oaks
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

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

This package includes 40 individual, 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	3/20/23	15	T30080941	T02	3/20/23
2	T30080928	CJ03	3/20/23	16	T30080942	T03	3/20/23
3	T30080929	CJ05	3/20/23	17	T30080943	T04	3/20/23
4	T30080930	EJ01	3/20/23	18	T30080944	T05	3/20/23
5	T30080931	EJ02	3/20/23	19	T30080945	T06	3/20/23
6	T30080932	EJ03	3/20/23	20	T30080946	T07	3/20/23
7	T30080933	HJ05	3/20/23	21	T30080947	T08	3/20/23
8	T30080934	HJ10	3/20/23	22	T30080948	T09	3/20/23
9	T30080935	PB01	3/20/23	23	T30080949	T10	3/20/23
10	T30080936	PB02	3/20/23	24	T30080950	T11	3/20/23
11	T30080937	PB03	3/20/23	25	T30080951	T12	3/20/23
12	T30080938	PB04	3/20/23	26	T30080952	T13	3/20/23
13	T30080939	PB05	3/20/23	27	T30080953	T14	3/20/23
14	T30080940	T01	3/20/23	28	T30080954	T15	3/20/23

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.

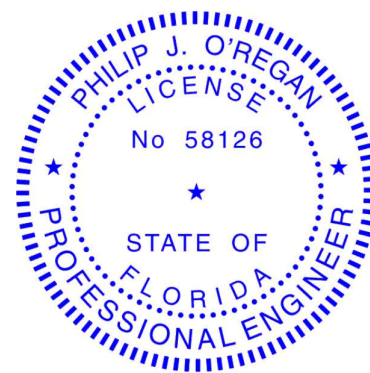
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip

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

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

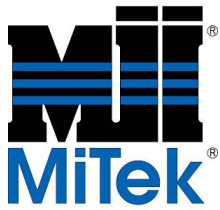


Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 20, 2023

ORegan, Philip

1 of 2



RE: 3458566 - EXCEPTIONS - 1841

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

Site Information:

Customer Info: EXCEPTIONS REALITY Project Name: Spec Hse Model: 1841
Lot/Block: 2 Subdivision: Kimberly Oaks
Address: TBD, TBD
City: Columbia Cty State: FL

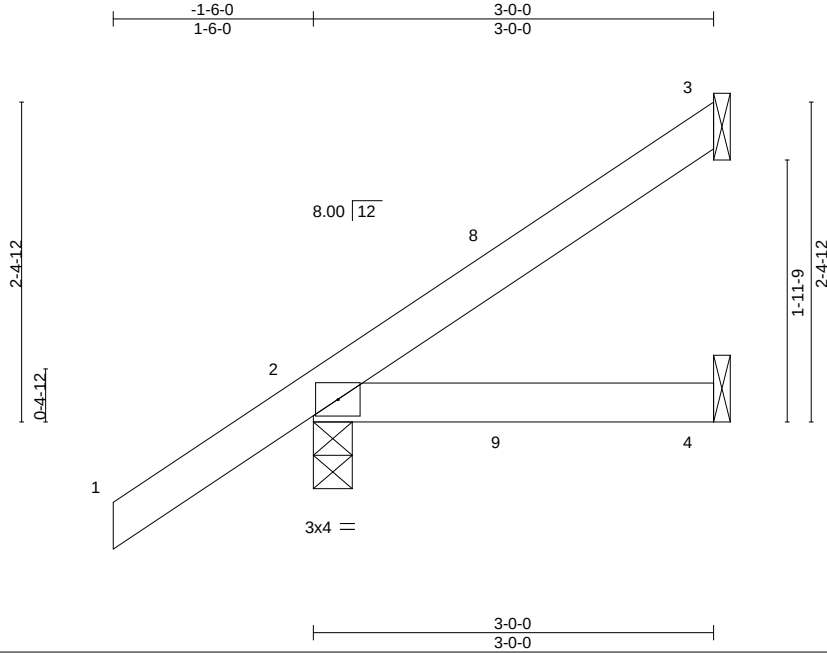
No.	Seal#	Truss Name	Date
29	T30080955	T16	3/20/23
30	T30080956	T17	3/20/23
31	T30080957	T18	3/20/23
32	T30080958	T19	3/20/23
33	T30080959	T20	3/20/23
34	T30080960	T21	3/20/23
35	T30080961	T22	3/20/23
36	T30080962	T23	3/20/23
37	T30080963	T27	3/20/23
38	T30080964	T28	3/20/23
39	T30080965	T29	3/20/23
40	T30080966	T30	3/20/23

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458566	CJ03	Jack-Open	14	1	T30080928

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:33 2023 Page 1

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Scale = 1:17.3

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.

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

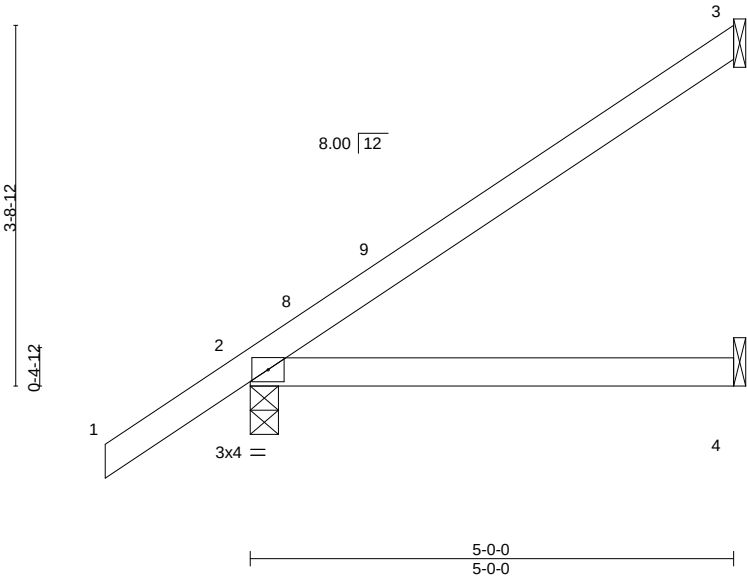
Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458566	CJ05	Jack-Open	14	1	T30080929

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
Page 1

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Scale: 1/2"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 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.
 - 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 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
3458566	EJ01	Jack-Partial	35	1	T30080930

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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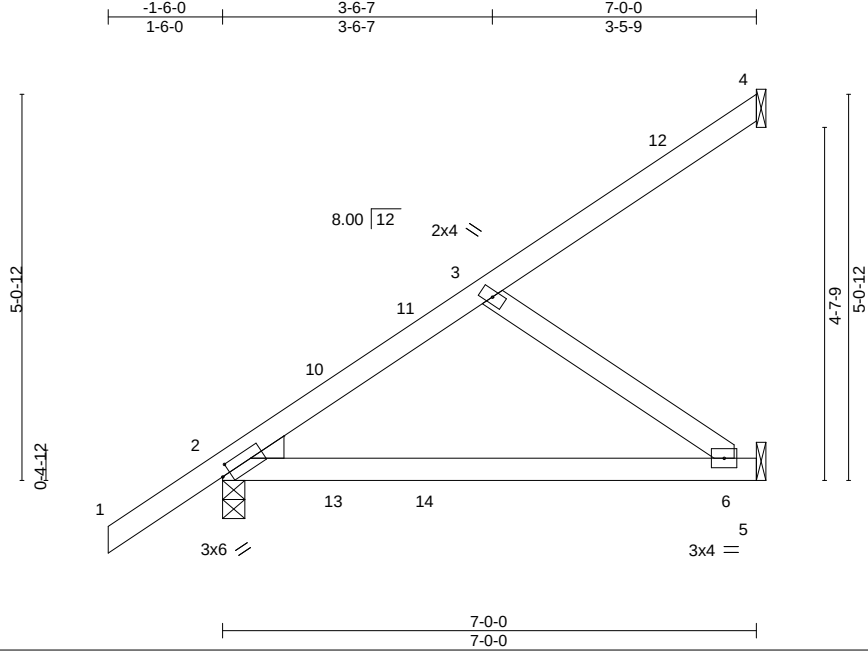


Plate Offsets (X,Y)--		[2:0-1-5,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	0.17	6-9	>479	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.16	6-9	>529		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00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

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:

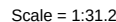
March 20,2023

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 **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, 8530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:37 2023 Page 1
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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 Gray 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; TC DL=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)

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



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 personnel 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 Code**

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

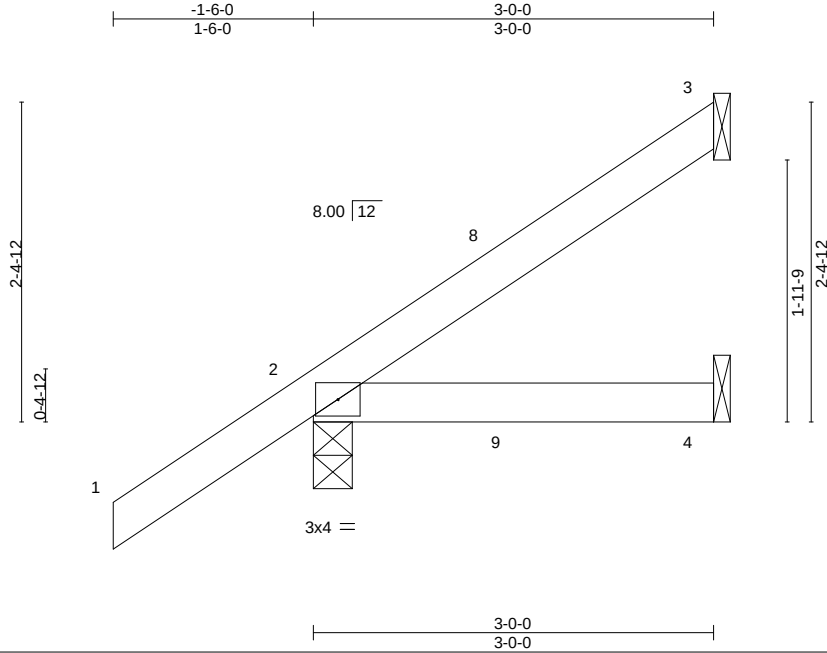


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458566	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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MiTek Inc. DBA MiTek USA FL Cert 6634
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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

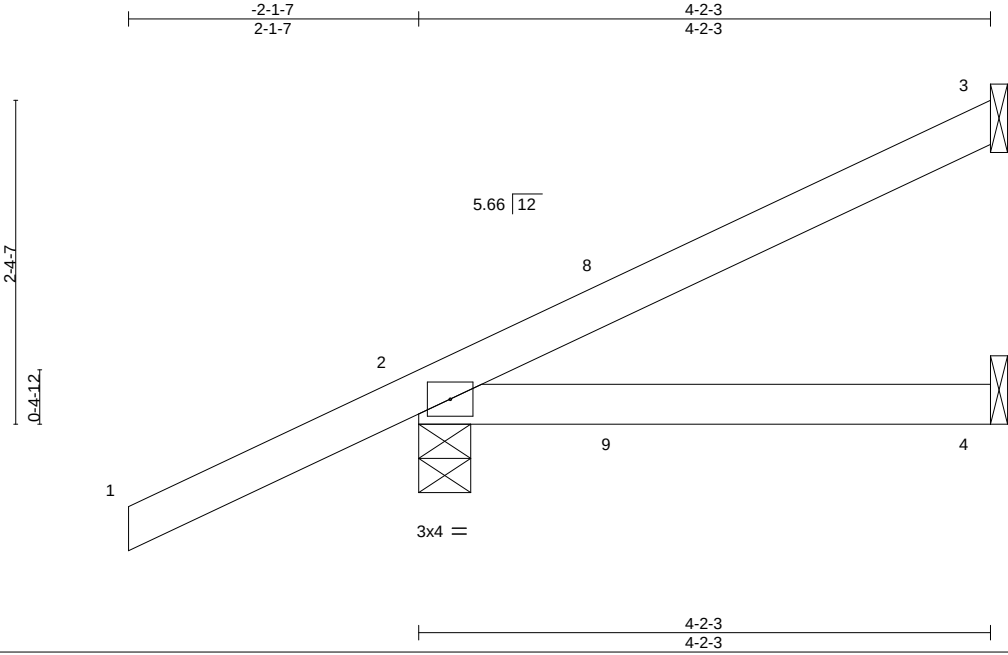
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458566	HJ05	Diagonal Hip Girder	1	1	T30080933

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-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	0.02	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.03	4-7	>999	180	244/190
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; TCCL=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

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:

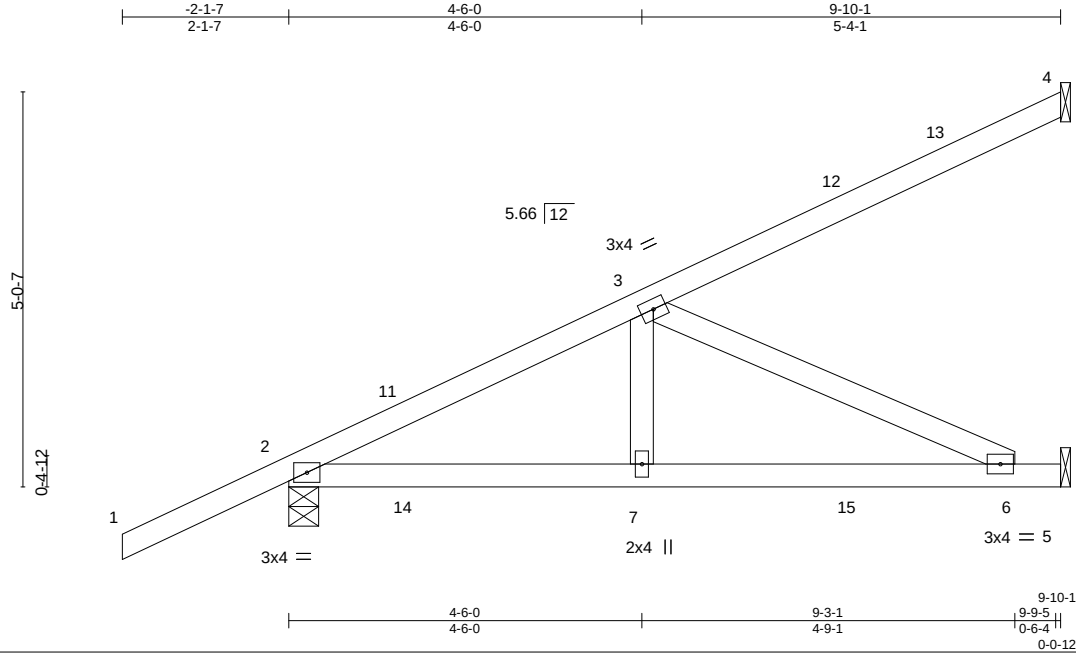
March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080934
3458566	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

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	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-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-7-4 oc bracing.

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)

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

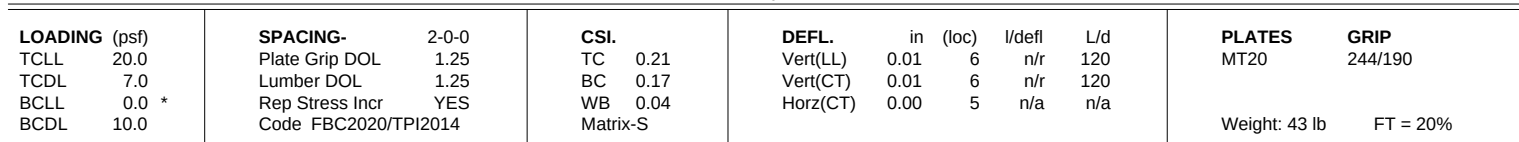
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

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
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-LljSV5MEmrZF2 UGWVftEAOzxbXan3HMjk5QBlza4W7



REACTIONS. All bearings 9-9-12.
(lb) - Max Horz 2=73(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=273(LC 24), 8=273(LC 23)

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDFL=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 5-2-8, Exterior(2E) 5-2-8 to 6-1-8, Exterior(2R) 6-1-8 to 10-6-14, Interior(1) 10-6-14 to 11-0-11 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
- 9) 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 Gregory A. Philbin

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

WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH/473 (rev. 5/19/2020) BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080936
3458566	PB02	Piggyback	1	1	Job Reference (optional)	

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

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MiTek Industries, Inc.
Fri Mar 17 08:49:44 2023
Page 1
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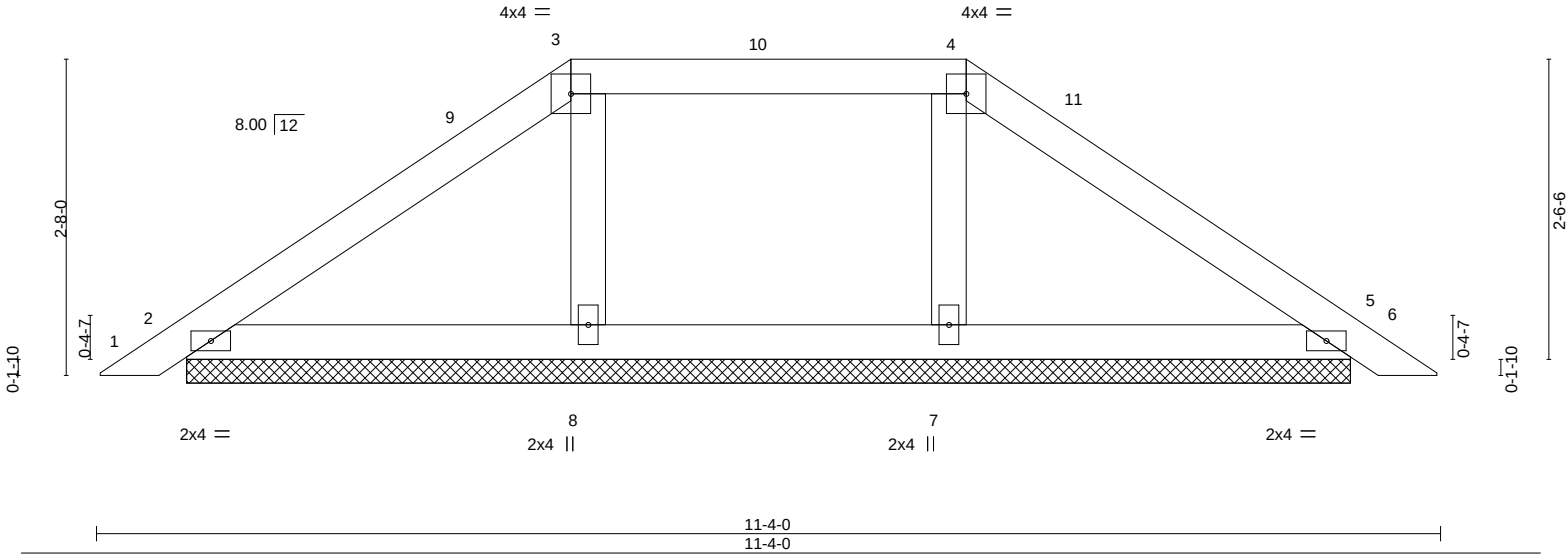
7-4-0

7-4-0

11-4-0

4-0-0

Scale = 1:19.4



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.10	Vert(LL)	in	(loc)	l/defl	L/d	MT20		244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	6	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 40 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=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 3-6-0 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.

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	T30080937
3458566	PB03	Piggyback	1	1	Job Reference (optional)	

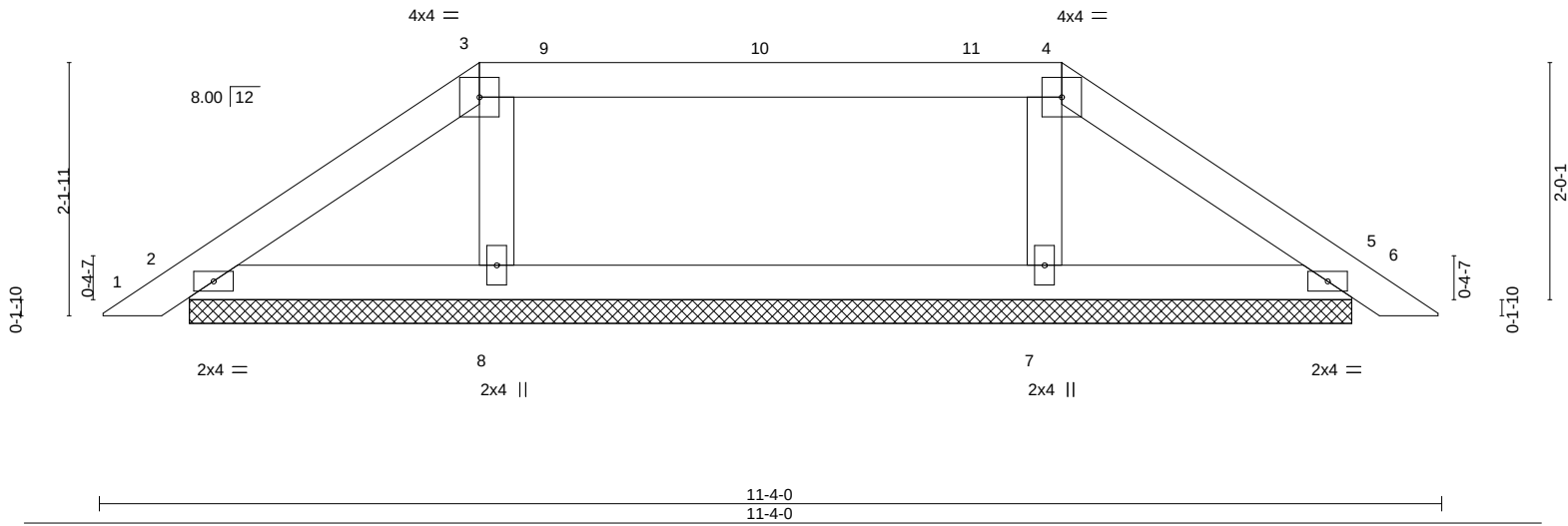
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:45 2023 Page 1
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8-1-8
8-1-8

11-4-0
3-2-8

Scale = 1:19.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.26	Vert(LL) 0.00	5	n/r	120	MT20	244/190
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-

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=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; TC DL=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.

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

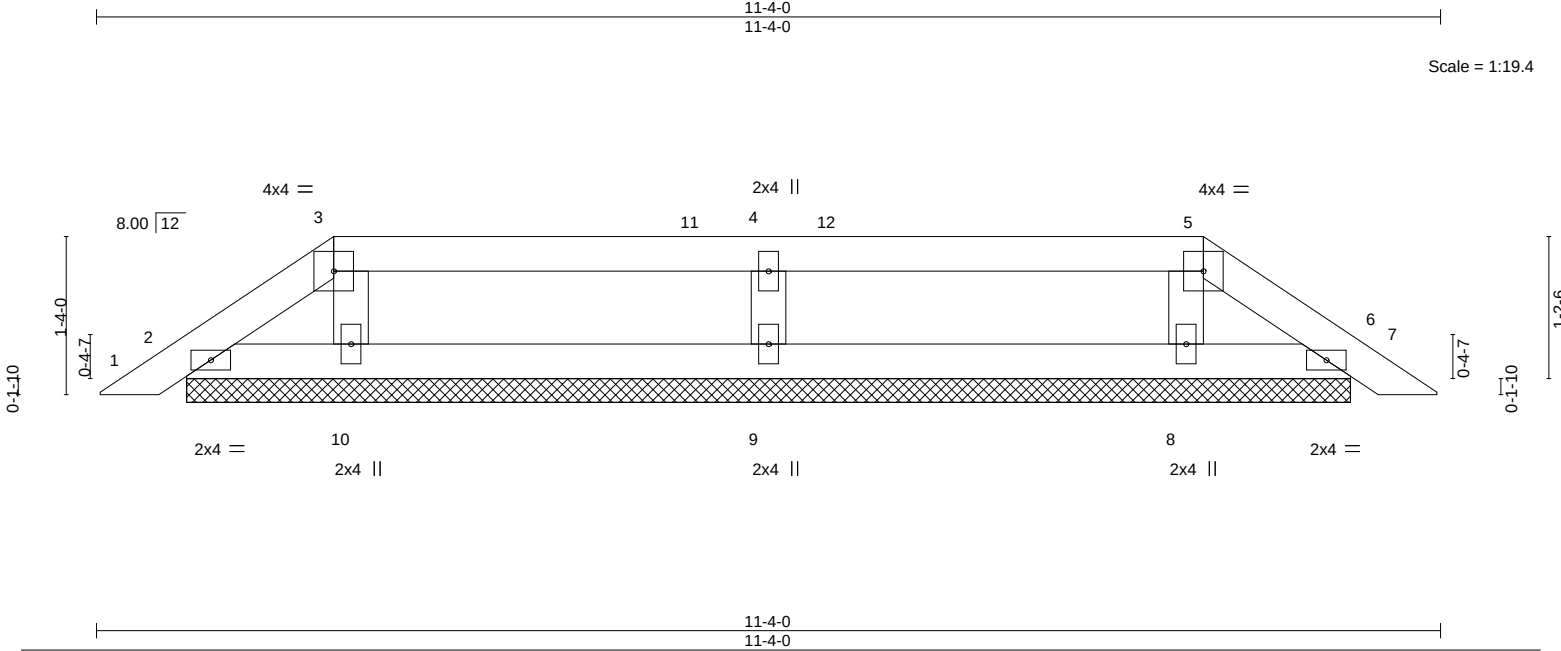


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080938
3458566	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.
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Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-ijWLYpQMbOBX9IMDJ3F2xD6qbcFwSKX5s?pBSyza4W2



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; TC DL=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:

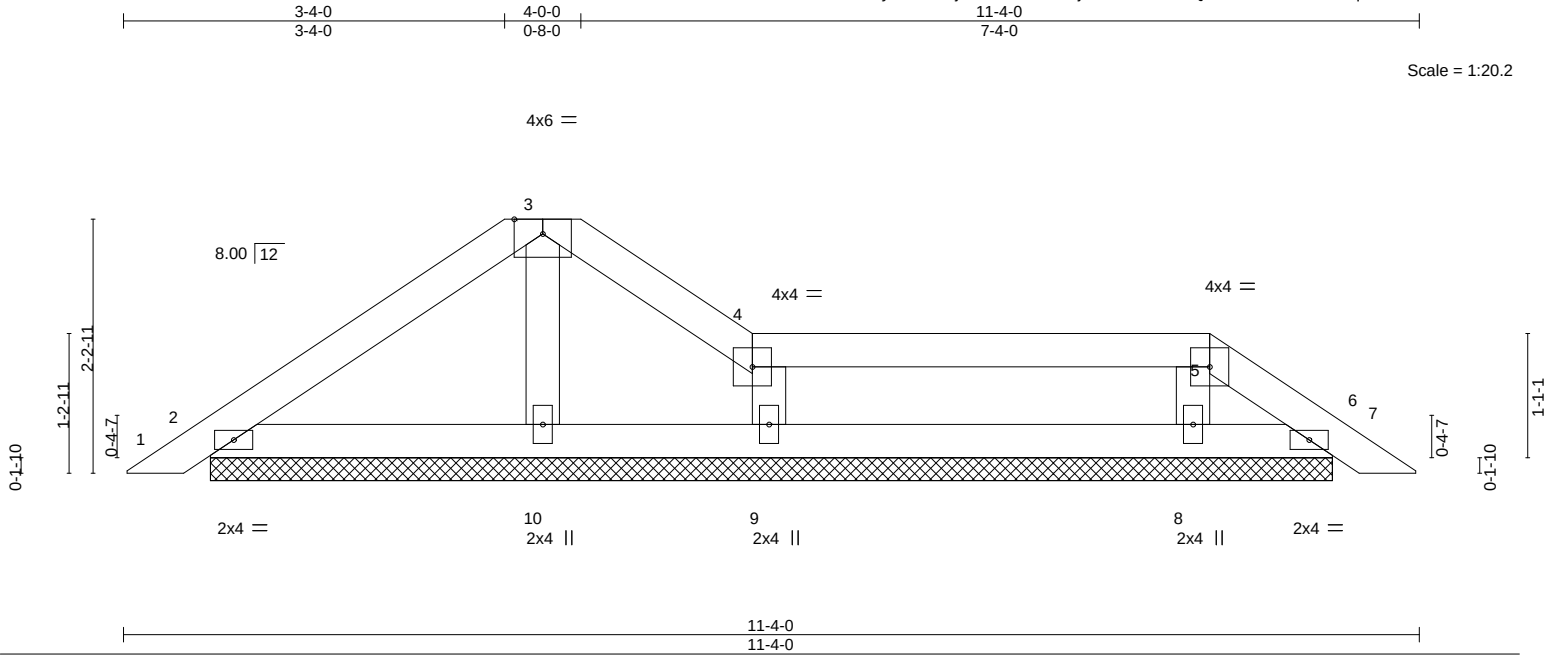
March 20,2023



Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080939
3458566	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
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-Av4jl9R?MhJOMvxQsmmHTRe?8?bJbnqE5fYIOPza4W1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	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:

March 20,2023

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

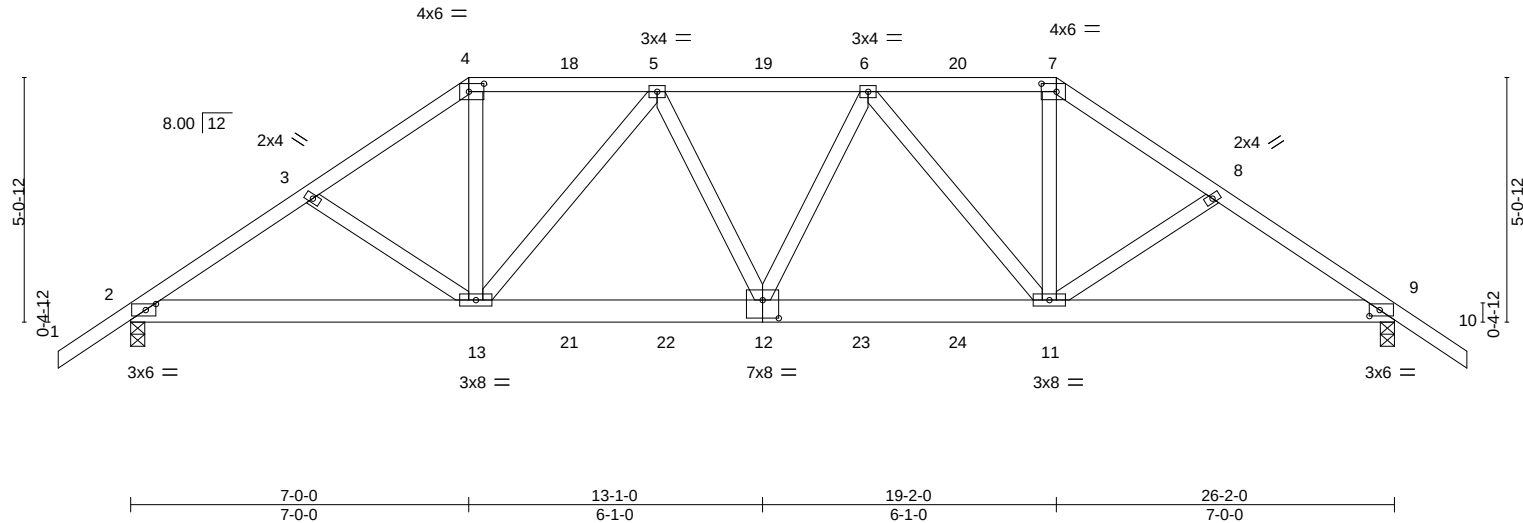


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080940
3458566	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 08:49:50 2023 Page 1						
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-6lCTArSFtJZ60D5o_BolZsjl?p7WfZDXyZ1rTHza4W?										
-1-6-0	3-9-4	7-0-0	10-10-13	15-3-3	19-2-0	22-4-12	26-2-0	27-8-0		
1-6-0	3-9-4	3-2-12	3-10-13	4-4-7	3-10-13	3-2-12	3-9-4	1-6-0		

Scale: 1/4"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		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-**
- 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; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=826, 9=847.
 - 8) 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.
 - 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	

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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	T30080940
3458566	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
Page 2
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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)

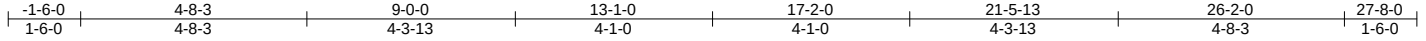


Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080941
3458566	T02	Hip	1	1	Job Reference (optional)	

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

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Mar 17 08:49:52 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-3gKEbWUVpWpFqXFB5crDeHpexdos7Ywq0HWxXAza4Vz



Scale: 1/4"=1'

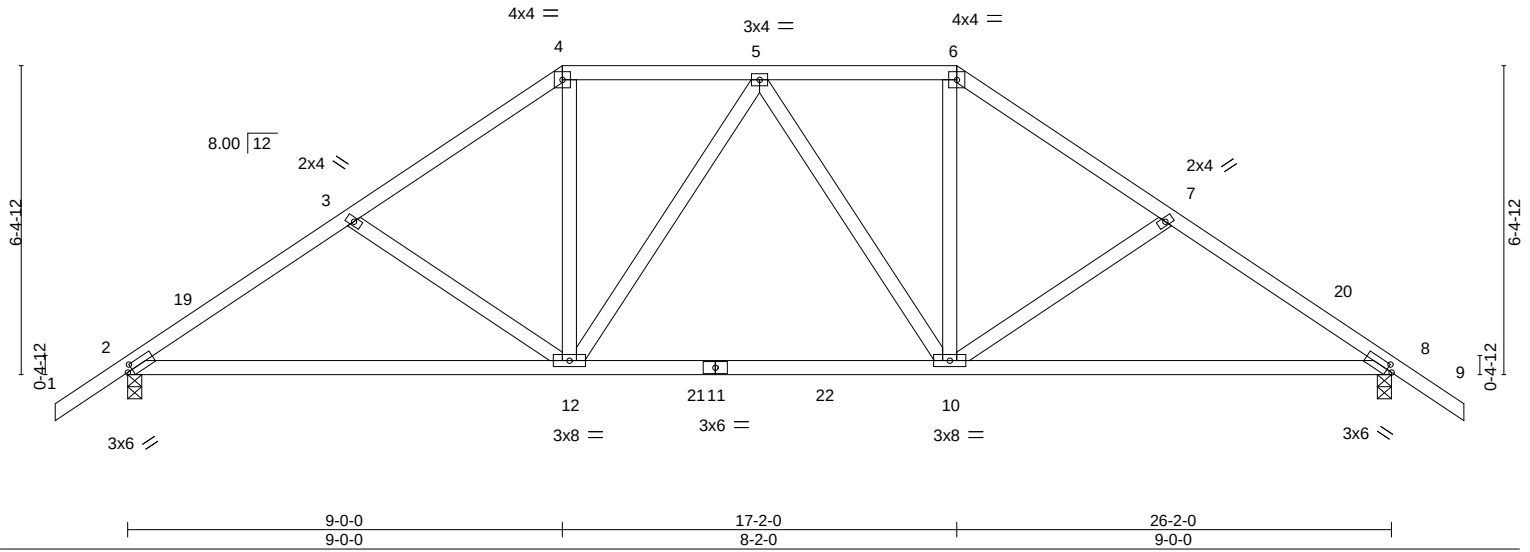


Plate Offsets (X,Y)-- [2:0-1-5,0-1-8], [8:0-1-5,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	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-

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 4-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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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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



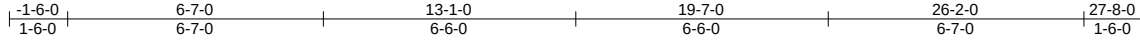
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080943
3458566	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

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4x6 ||

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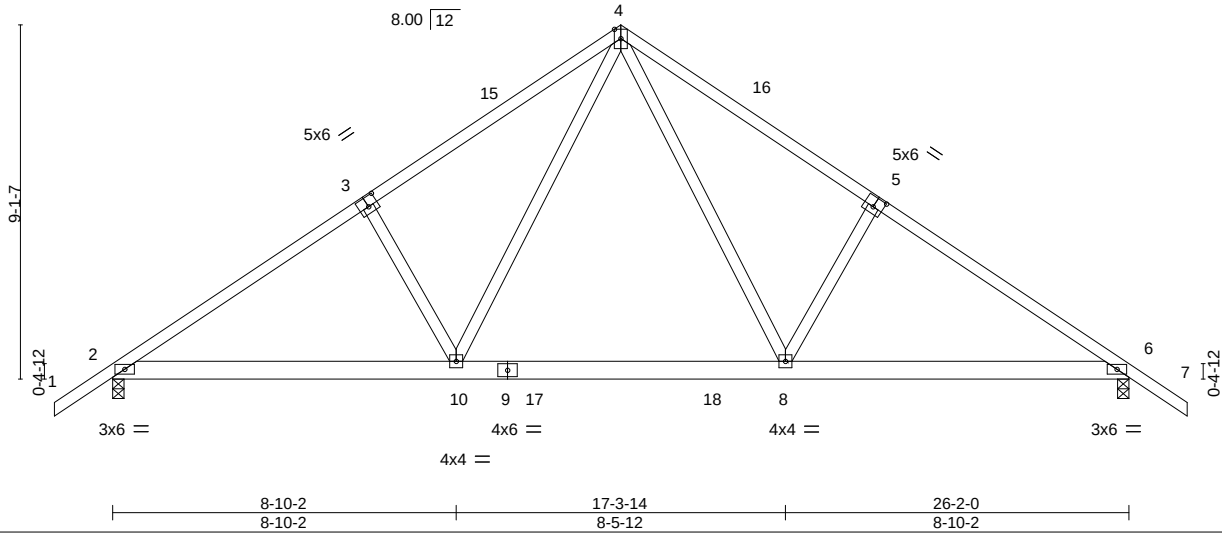


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/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

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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



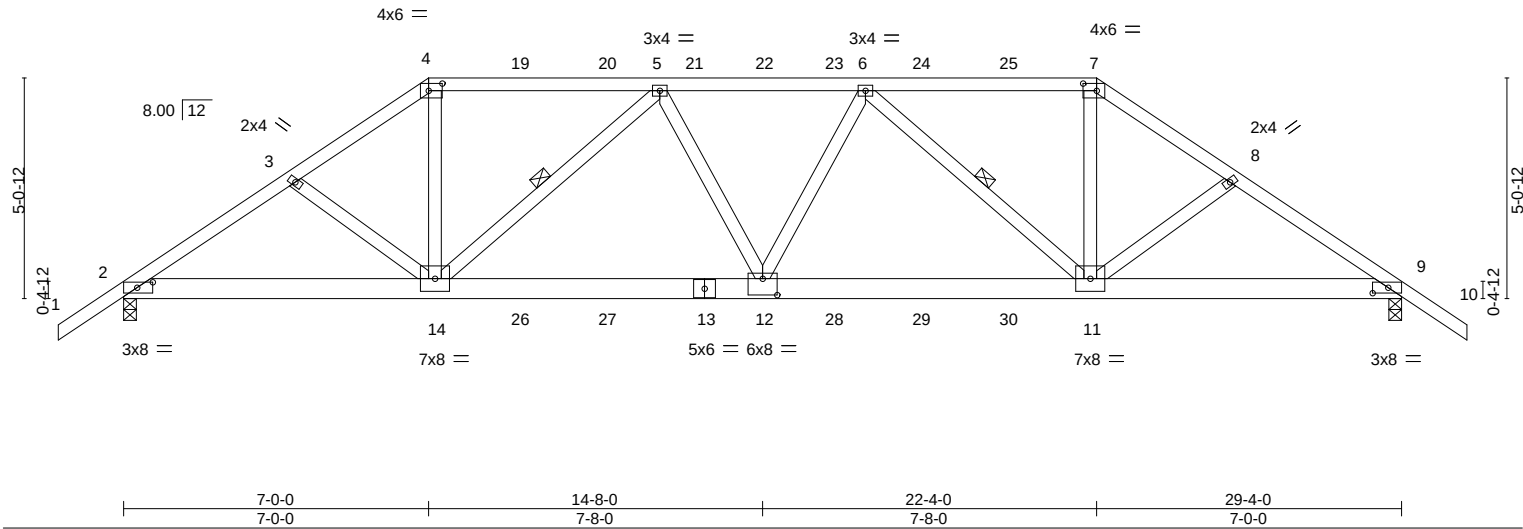
16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080945
3458566	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 1					
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-M0fT3vZum4irbbHX0aTsQlbnYRHMgcEsdtpGGza4Vs									
-1-6-0	3-11-4	7-0-0	12-3-11	17-0-5	22-4-0	25-4-12	29-4-0	30-10-0	
1-6-0	3-11-4	3-0-12	5-3-11	4-8-10	5-3-11	3-0-12	3-11-4	1-6-0	

Scale = 1:52.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.21 11-12 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.32 11-12 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.07 9 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 181 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD	2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 7-6-8 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-14, 6-11

REACTIONS.	(size) 2=0-3-8, 9=0-3-8
	Max Horz 2=-125(LC 6)
	Max Uplift 2=-961(LC 8), 9=-988(LC 9)
	Max Grav 2=2235(LC 1), 9=2276(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3636/1629, 3-4=-3485/1609, 4-5=-2918/1391, 5-6=-4013/1864, 6-7=-2980/1430, 7-8=-3561/1657, 8-9=-3711/1677
BOT CHORD	2-14=-1347/2976, 12-14=-1722/3784, 11-12=-1719/3803, 9-11=-1303/3039
WEBS	4-14=-748/1665, 5-14=-1213/619, 5-12=-253/540, 6-12=-215/508, 6-11=-1146/563, 7-11=-718/1635

- 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; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=961, 9=988.
 - 8) 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, 70 lb down and 41 lb up at 14-8-0, 70 lb down and 49 lb up at 16-3-4, 70 lb down and 49 lb up at 18-3-4, and 70 lb down and 49 lb up at 20-3-4, and 177 lb down and 156 lb up at 22-4-0 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 13-0-12, 156 lb down and 99 lb up at 14-8-0, 156 lb down and 99 lb up at 16-3-4, 156 lb down and 99 lb up at 18-3-4, and 156 lb down and 99 lb up at 20-3-4, and 426 lb down and 291 lb up at 22-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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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
3458566	T06	Hip Girder	1	1	T30080945

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
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-M0Ft3vZum4irbbHX0aTsQlbmYRHMgcEsdtpGGza4Vs

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)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080946
3458566	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

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-IPMdUbb8lhyYqvRw7?VKVAhAgFtXkYQ94BCwL8za4Vq

-1-6-0	4-6-4	9-0-0	14-8-0	20-4-0	24-9-12	29-4-0	30-10-0
1-6-0	4-6-4	4-5-12	5-8-0	5-8-0	4-5-12	4-6-4	1-6-0

Scale = 1:52.9

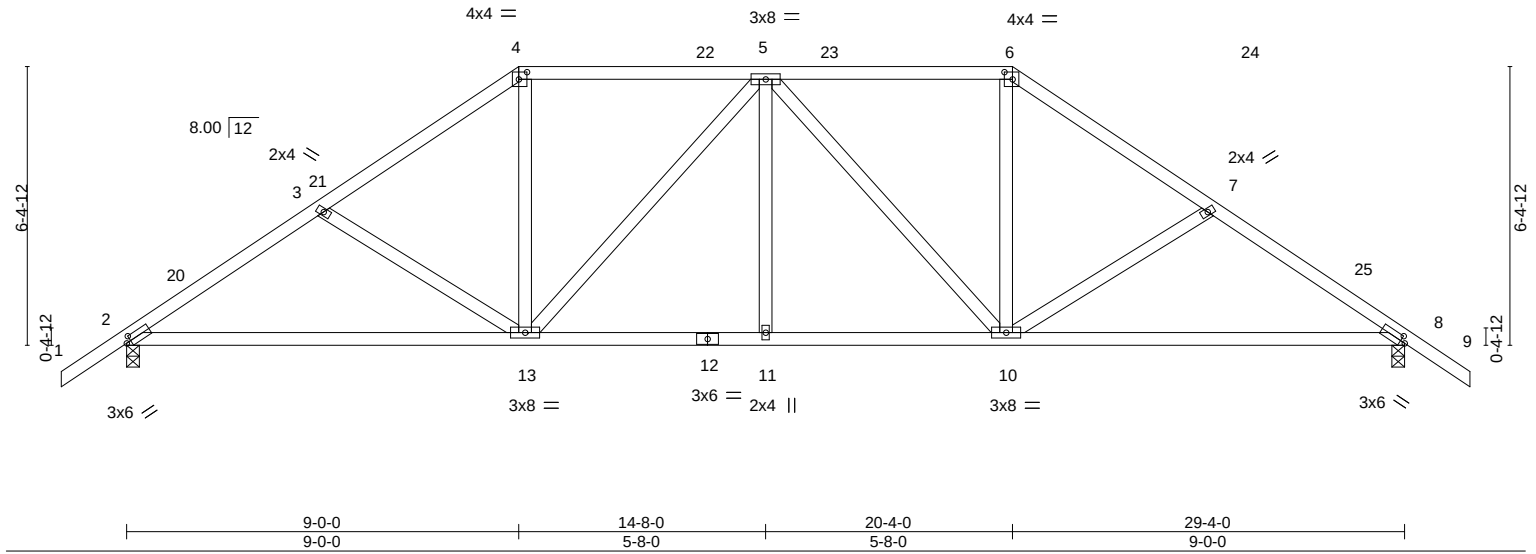


Plate Offsets (X,Y)--		[2:0-1-5,0-1-8], [4:0-2-4,0-2-0], [6:0-2-4,0-2-0], [8:0-1-5,0-1-8]					
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	in (loc)	L/d
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(LL)	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Vert(CT)	>999
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Horz(CT)	0.06 8 n/a n/a
						PLATES	GRIP
						MT20	244/190
						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.

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	T30080947
3458566	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

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-mbw0hxcn3?4PS306hi0Z2NDE8fFdT0fJrxTtbza4Vp

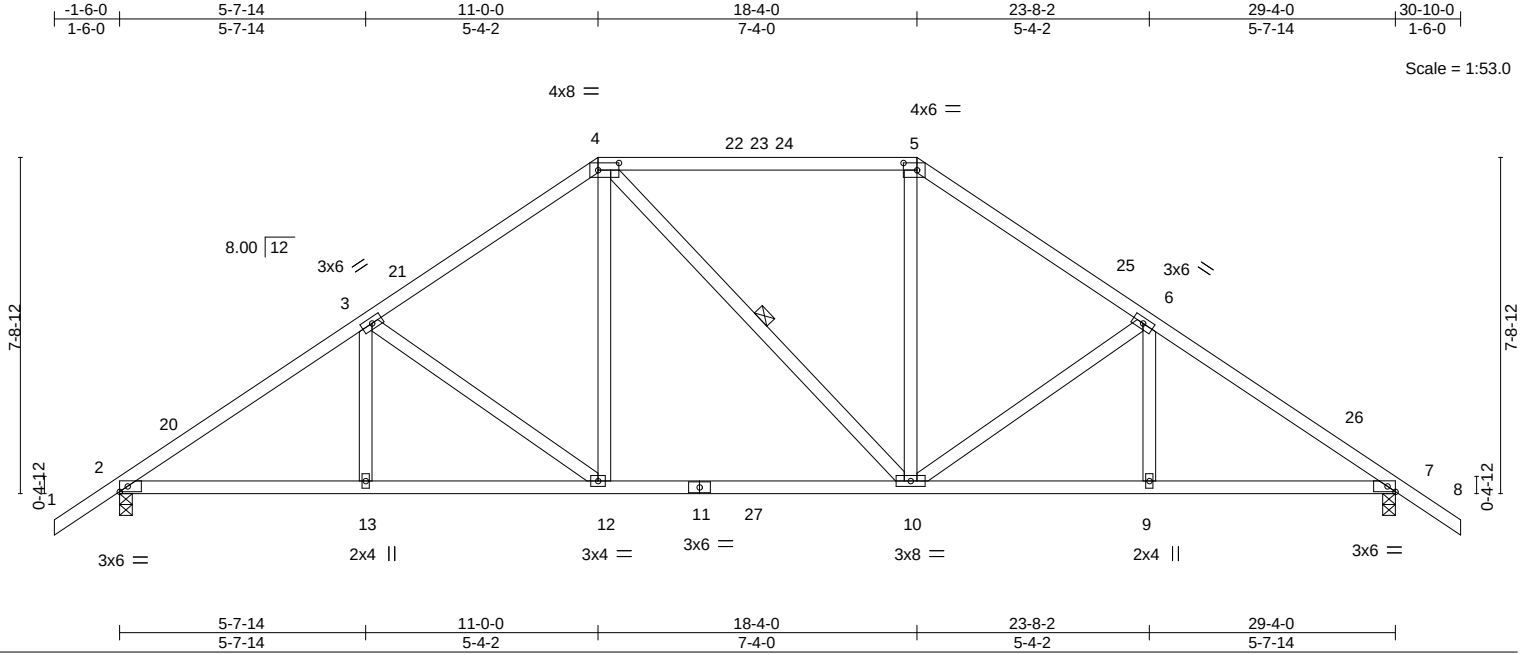


Plate Offsets (X,Y)-- [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [7:0-2-3,Edge]

LOADING (psf)	SPACING-	CSL	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	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.59	Vert(CT)	-0.22 10-12	>999	180		
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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080948
3458566	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
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-i_2m6dd1acK7hNAV07217oJfbSyBxtdbm9QayTza4Vn
22-9-6
6-5-6
29-4-0
6-6-10

6-6-10
6-6-10
13-0-0
6-5-6
16-4-0
3-4-0

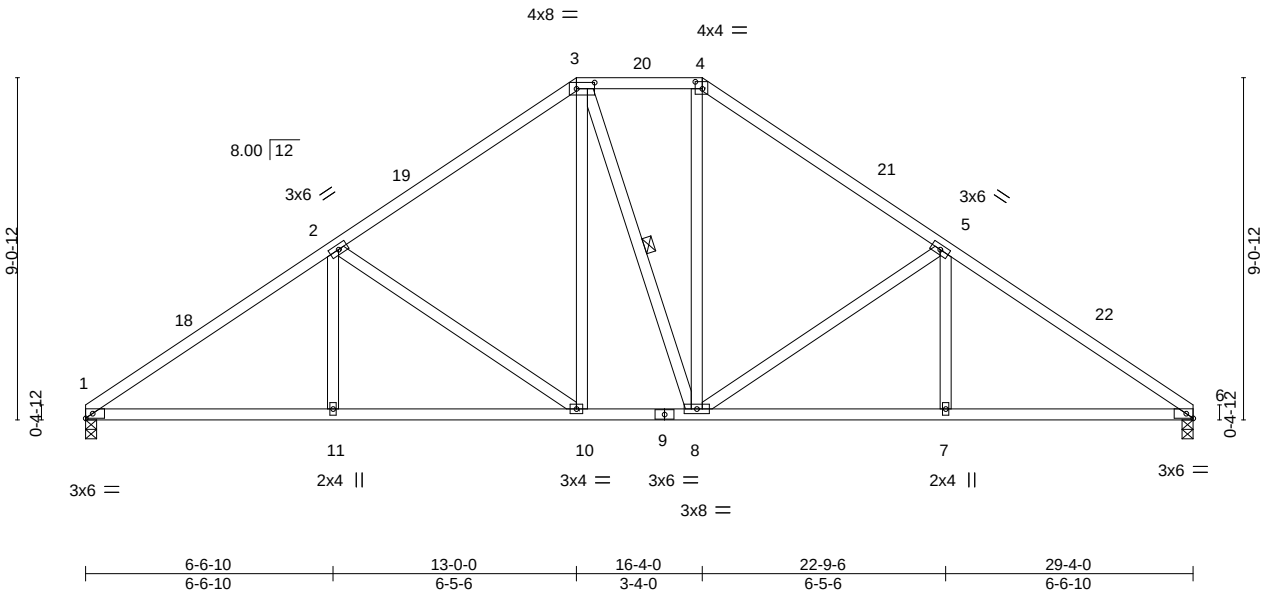


Plate Offsets (X,Y)--		[3:0-5-12,0-2-0], [4:0-2-4,0-2-4], [6:0-2-3,Edge]									
LOADING	(psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.06	10-11	>999	240	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.15	10-11	>999	180	GRIP
BCLL	0.0 *	Rep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

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
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 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 4-8, 2-8

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

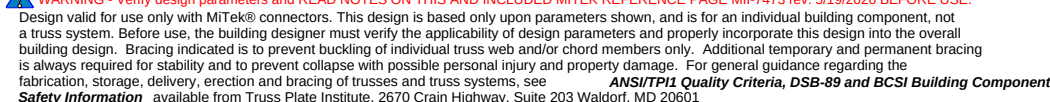
TOP CHORD	1-2=-1632/316, 2-3=-1119/293, 3-4=-1119/293, 4-5=-1632/316
BOT CHORD	1-9=-318/1291, 8-9=-317/1293, 6-8=-186/1289, 5-6=-187/1286
WEBS	3-8=-165/747, 4-8=-587/281, 4-6=0/309, 2-8=-586/281, 2-9=0/309

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCFL=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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=214, 5=214.

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.

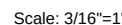
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 20, 2023



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 08:50:07 2023 Page 1
ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-7ZkvkfgtvXiiYqu3UFcklRx82gzP88e17f7EYoza4Vv



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-9 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 2-9, 3-9, 4-9

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

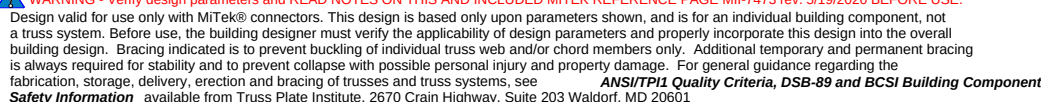
TOP CHORD	1-2=-1382/1040, 2-3=-870/716, 3-4=-869/714, 4-5=-140/348
BOT CHORD	1-10=-804/1115, 9-10=-589/1118, 7-9=-450/643, 6-7=-447/641
WEBS	2-10=-304/307, 2-9=-807/518, 3-9=-636/522, 4-6=-1340/984

- 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., GCp1=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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=194. 6=242.

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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	T30080951
3458566	T12	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 08:50:08 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-bllHy_gYerqZA_TG1z7zHeTD63HCthdBhmOn5Eza4Vj

0-4-0 8-4-0 14-8-0 22-6-0 26-6-0 29-4-0
0-4-0 8-0-0 6-4-0 7-10-0 4-0-0 2-10-0

Scale = 1:68.0

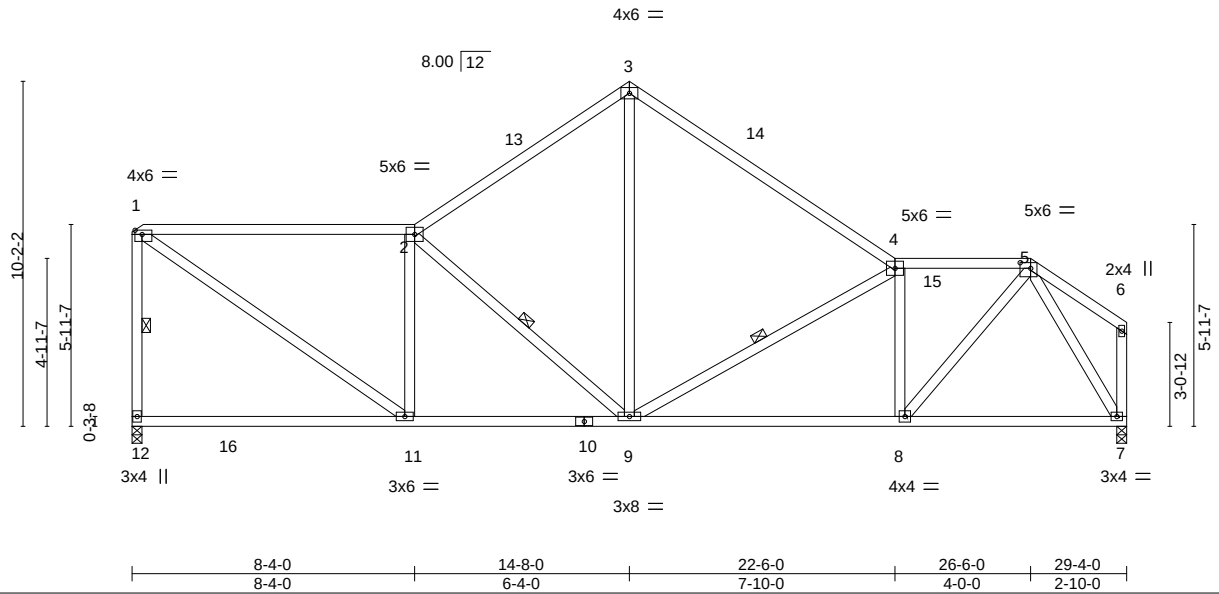


Plate Offsets (X,Y)-- [1:0-2-8,Edge], [5:0-3-12,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 1.00	Vert(LL)	-0.17 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.31 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.04 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 189 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-9, 4-9, 1-12

REACTIONS.

(size) 12=0-3-8, 7=0-3-8
Max Horz 12=-159(LC 13)
Max Uplift 12=-228(LC 12), 7=-206(LC 13)
Max Grav 12=1184(LC 2), 7=1149(LC 2)

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

TOP CHORD 1-2=-1235/222, 2-3=-1135/263, 3-4=-1144/253, 4-5=-1309/262, 1-12=-1023/248
BOT CHORD 9-11=-230/1249, 8-9=-213/1327, 7-8=-99/587
WEBS 1-11=-264/1467, 2-11=-630/202, 2-9=-517/169, 3-9=-114/845, 4-9=-548/225,
4-8=-640/182, 5-8=-171/1133, 5-7=-1127/195

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 26-6-0, Exterior(2E) 26-6-0 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) 12=228, 7=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

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	T30080952
3458566	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-X8P1NgioAS5HPide9O9RN3ZbatwflYqU94tu97za4Vh

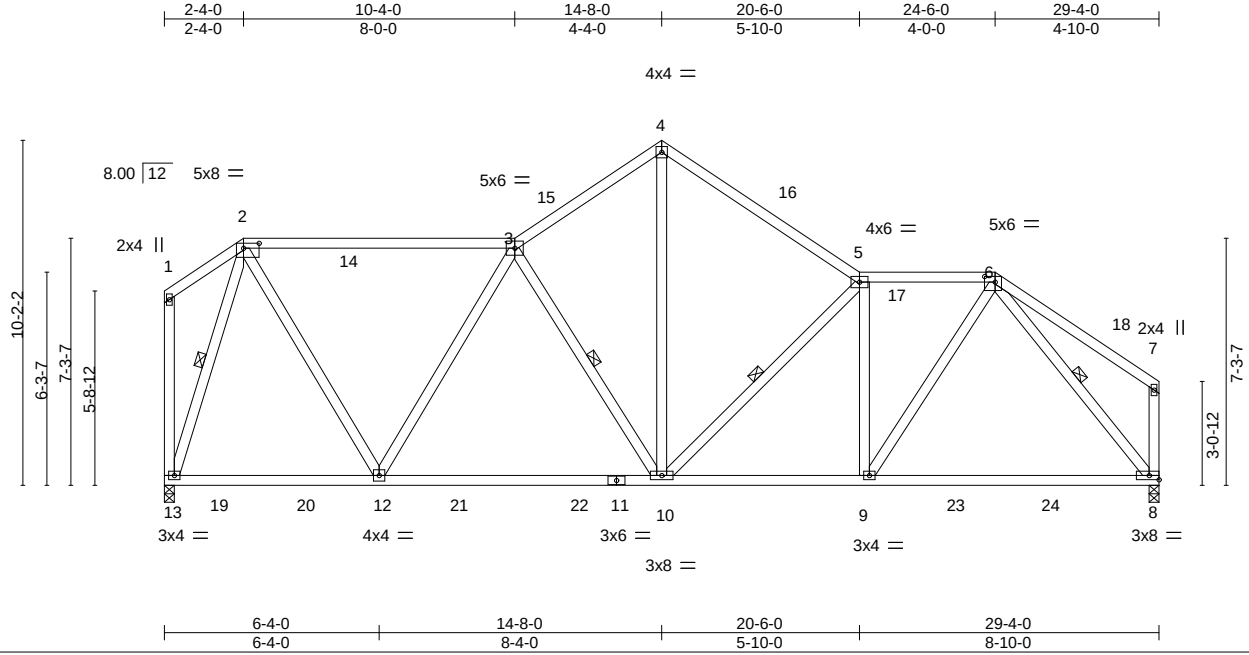


Plate Offsets (X,Y)--		[2:0-5-8,0-1-12], [6:0-3-12,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	in (loc)	I/defl	L/d	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(LL)	-0.25	8-9	>999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Vert(CT)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

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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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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	T30080953
3458566	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

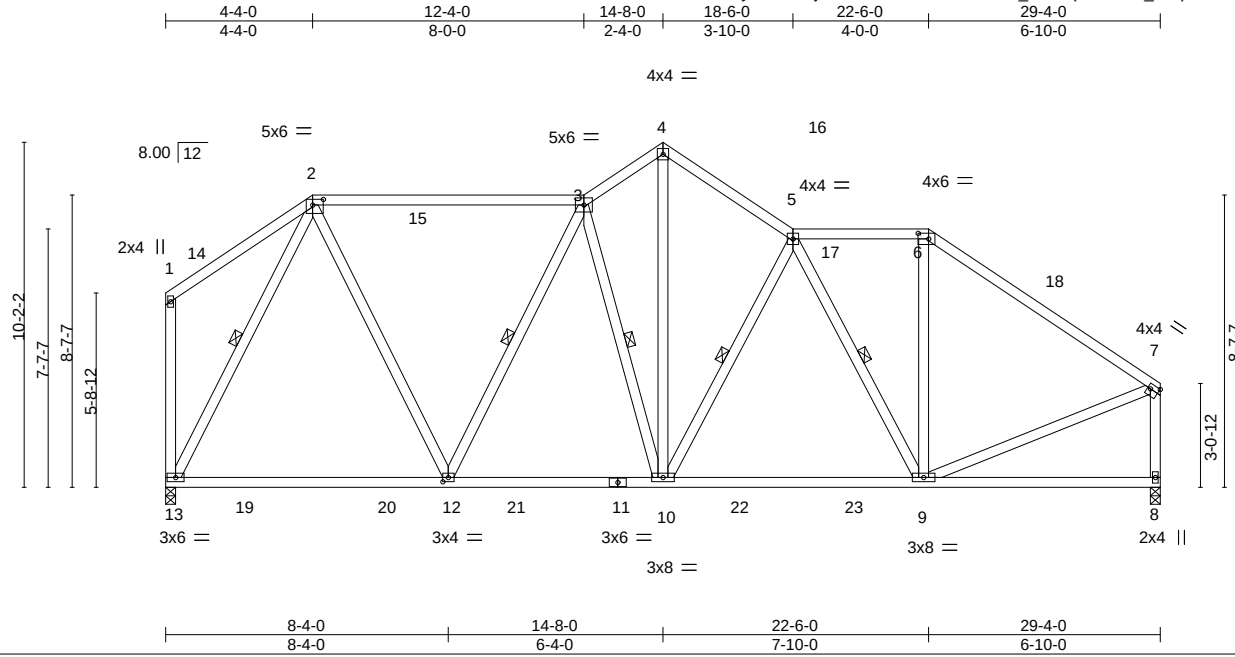


Plate Offsets (X,Y)-- [2:0-3-12,0-2-0], [6:0-3-12,0-2-0], [7:Edge,0-1-12], [12:0-1-15,0-1-8]

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

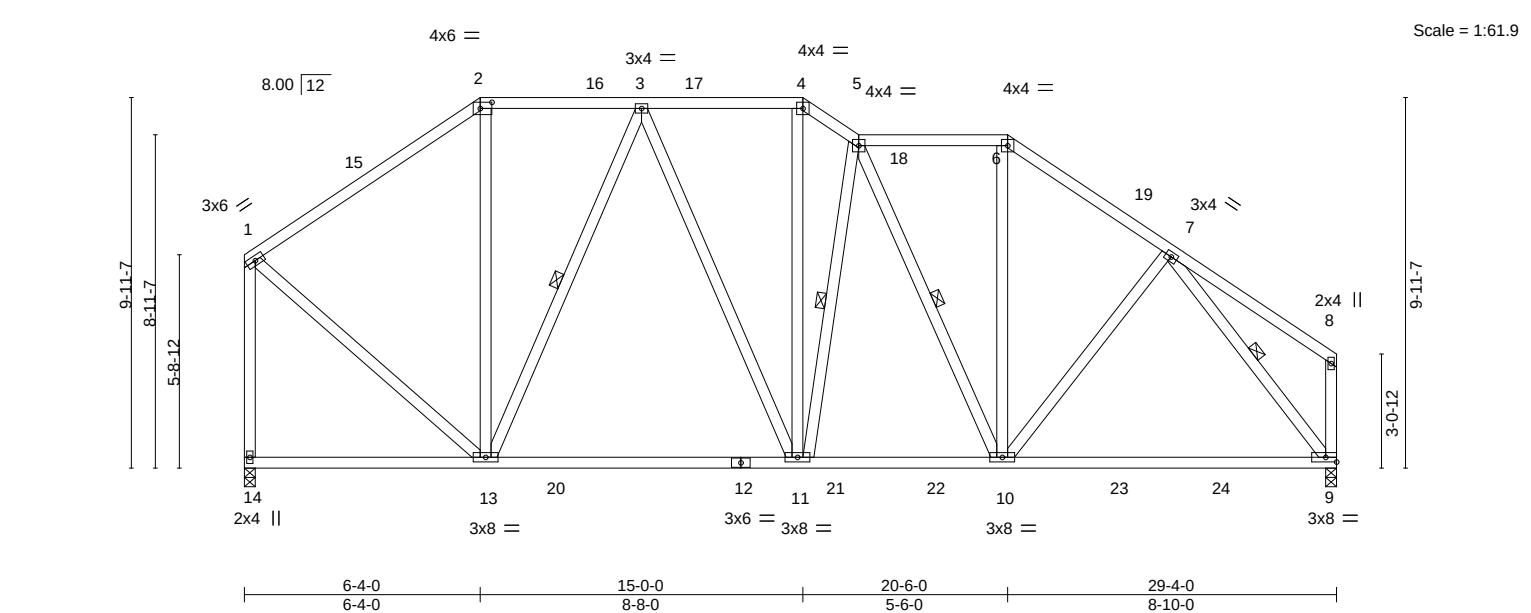
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080954
3458566	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-PvfYC2IIehbiuvxQODENXvjGuUHvHTJ34ir6luza4Vd				
6-4-0	10-8-0	15-0-0	16-6-0	20-6-0	24-9-4	29-4-0
6-4-0	4-4-0	4-4-0	1-6-0	4-0-0	4-3-4	4-6-12



LOADING (psf)		SPACING-		CSI.		DEFL.				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-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
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 3-13, 5-11, 5-10, 7-9

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 HAVING 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.

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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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080956
3458566	T17	Roof Special Girder	1	2	Job Reference (optional)	

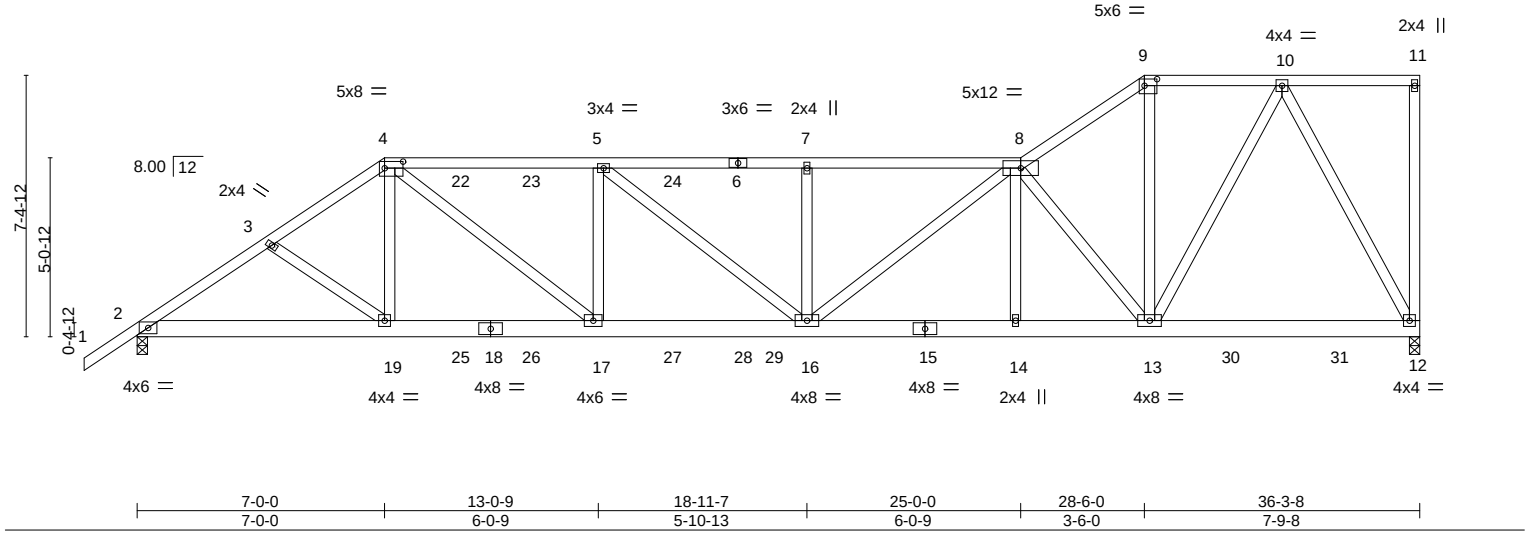
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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-		CSL		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* 15-18: 2x6 SP M 26	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

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Date:

March 20,2023

Continued on page 2 of such connection device(s) is the responsibility of others.

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
3458566	T17	Roof Special Girder	1	2	T30080956

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-mtSRGIpR2DD??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)

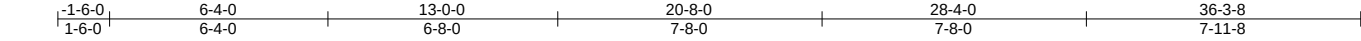
Vert: 4=-18(B) 6=-18(B) 19=-426(B) 17=-156(B) 5=-18(B) 22=-18(B) 23=-18(B) 24=-18(B) 25=-156(B) 26=-156(B) 27=-156(B) 28=-156(B) 29=-1427(B)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080959
3458566	T20	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 08:50:23 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-feiy57sy6SjRTH78QcuUOpbqm6OCuRzO8cX47tza4VU



Scale = 1:66.8

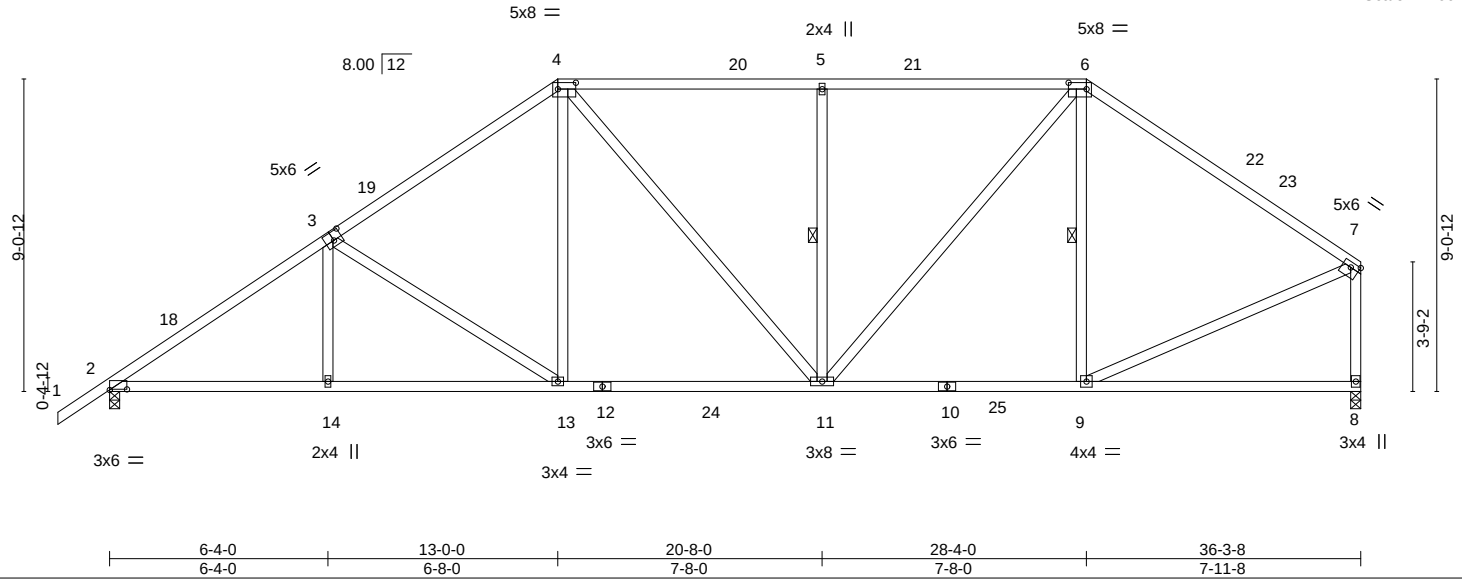


Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-3-0,0-3-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4], [7:Edge,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.78	Vert(LL)	-0.16 11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT)	-0.28 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 223 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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-

- 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 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
- 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=326, 8=264.

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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

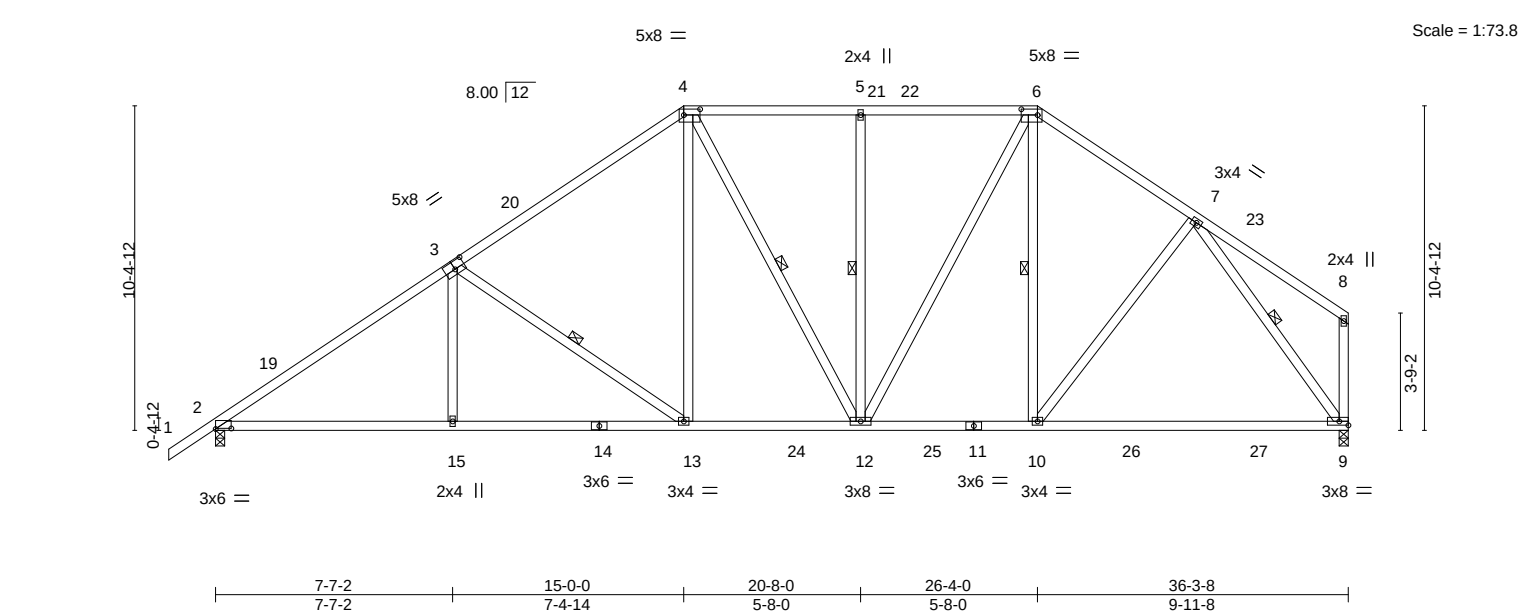
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080960
3458566	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						
-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



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.84	Vert(LL) -0.39 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.55	Vert(CT) -0.64 9-10 >673 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 9 n/a n/a		
	Code FBC2020/TPI2014			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.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-13, 4-12, 5-12, 6-10, 7-9

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 HAVING 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.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080961
3458566	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-XPxSxUvSagEsvyQvfSzQZfmWbkjbqIV_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

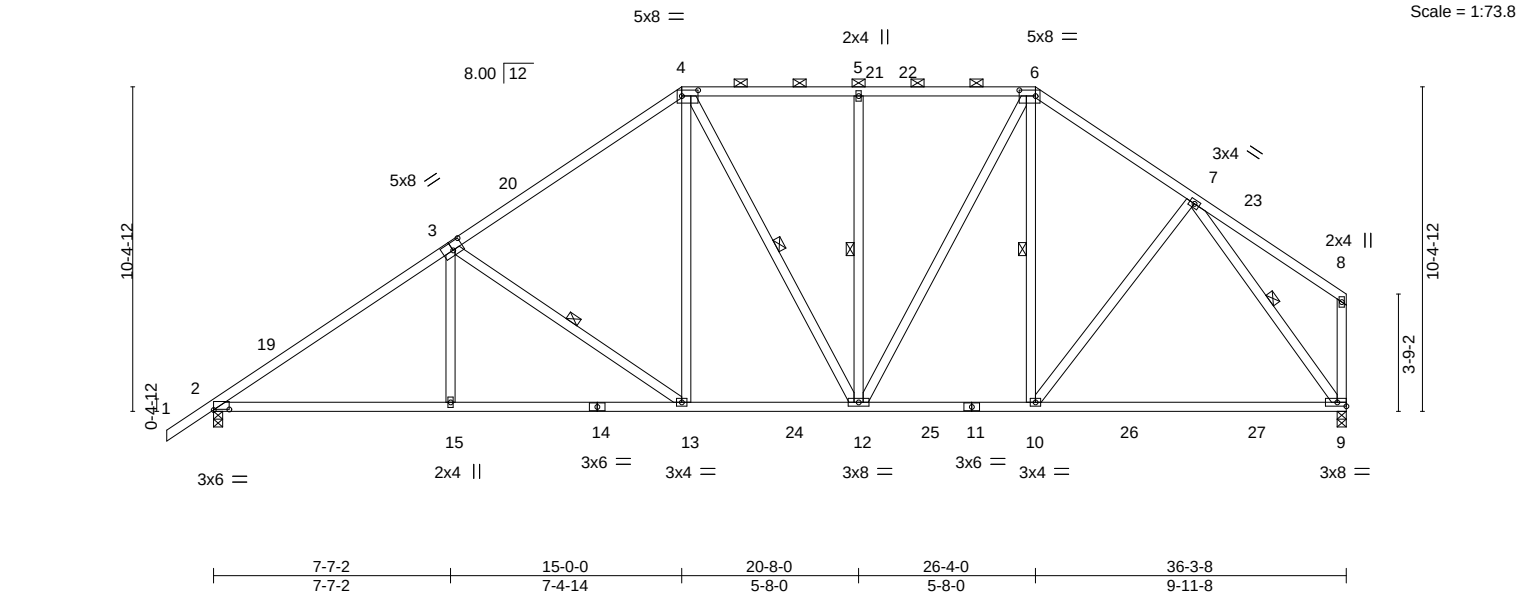


Plate Offsets (X,Y)--		[2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79
TCDL 7.0	Lumber DOL	1.25	BC 0.84
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		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-**
- 1) Unbalanced roof live loads HAVING 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 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
 - 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=321, 9=259.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

March 20,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080962
3458566	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-To3DMAxijUaBCalmt?ue4rtIXREIDxHWY_OKWza4VO

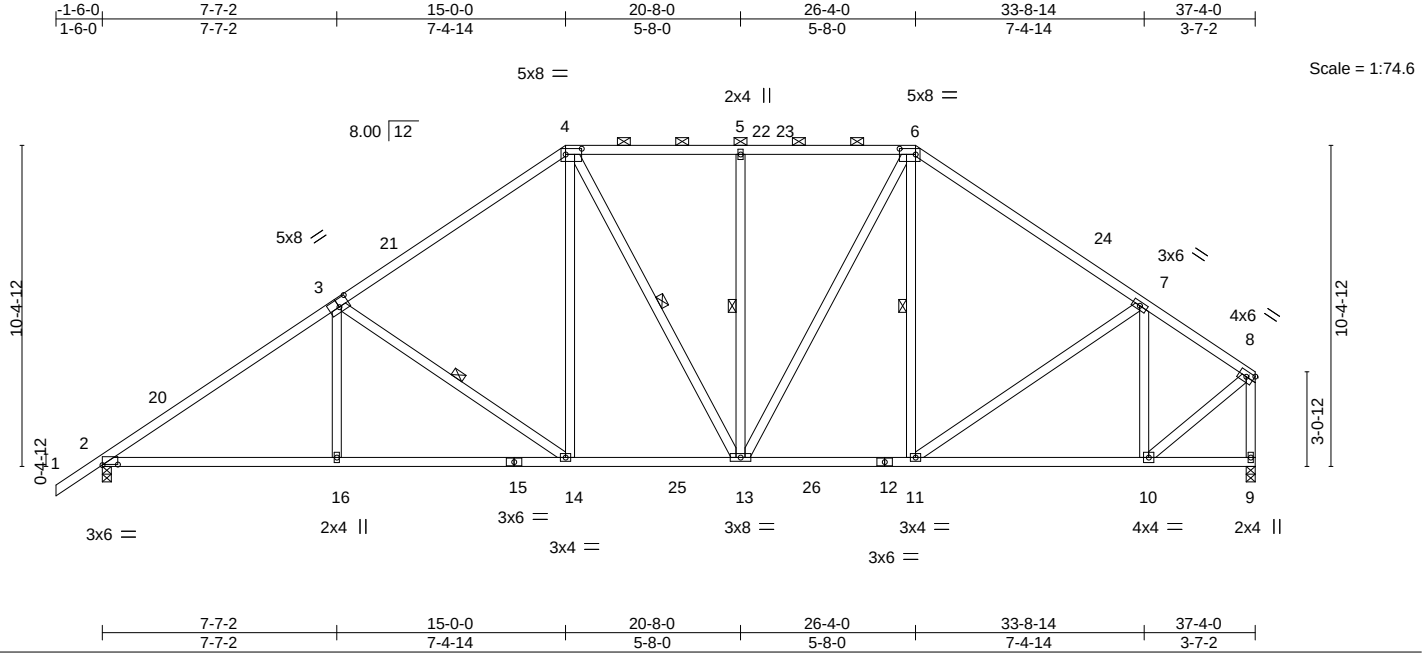


Plate Offsets (X,Y)--		[2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2020/TPI2014
	CSI.	
	TC 0.71	
	BC 0.77	
	WB 0.49	
	Matrix-MS	
	DEFL.	
	in (loc)	l/defl
	Vert(LL) -0.12 14-16	>999 240
	Vert(CT) -0.24 14-16	>999 180
	Horz(CT) 0.08 9	n/a n/a
	PLATES	GRIP
	MT20	244/190
	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

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	T30080963
3458566	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

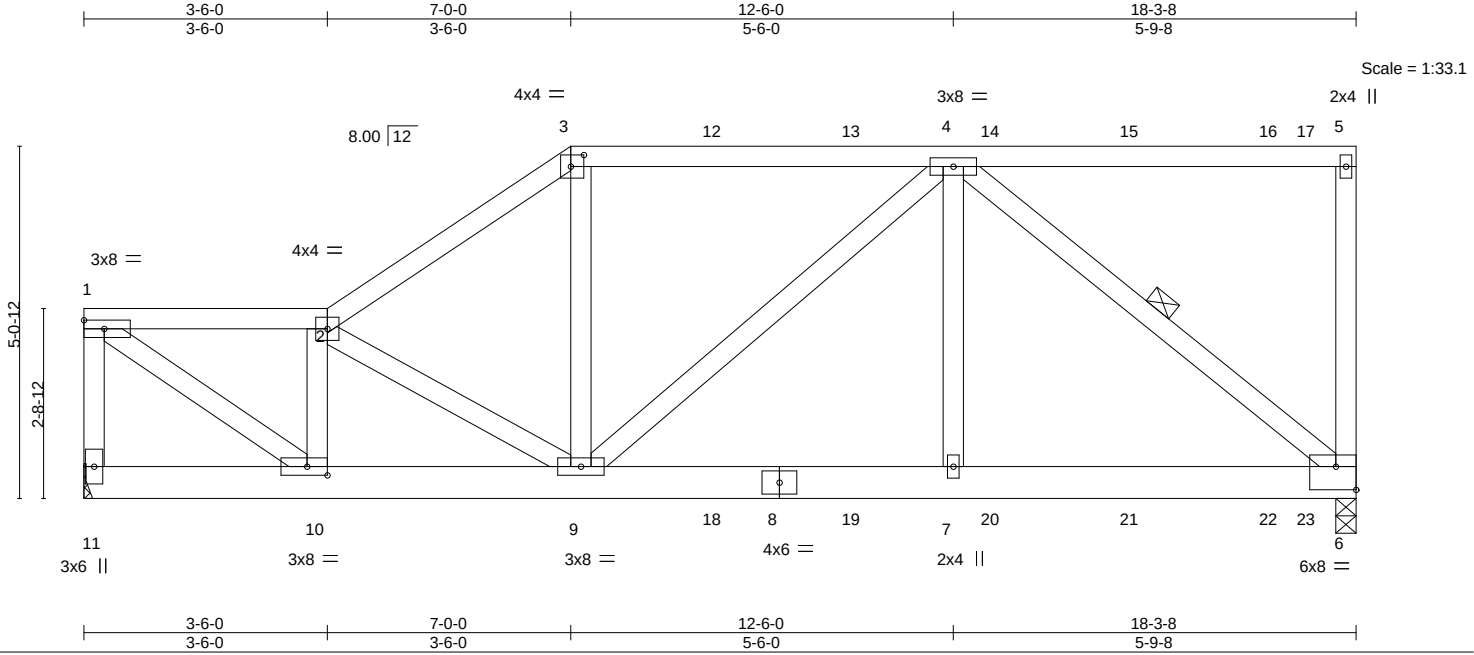


Plate Offsets (X,Y)--		[3:0-2-4,0-2-0], [6:Edge,0-4-0], [10:0-3-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48
TCDL 7.0	Lumber DOL	1.25	BC 0.53
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.06 7-9 >999 240
			Vert(CT) -0.09 7-9 >999 180
			Horz(CT) 0.02 6 n/a n/a
			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	

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
3458566	T27	Roof Special Girder	1	1	T30080963
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
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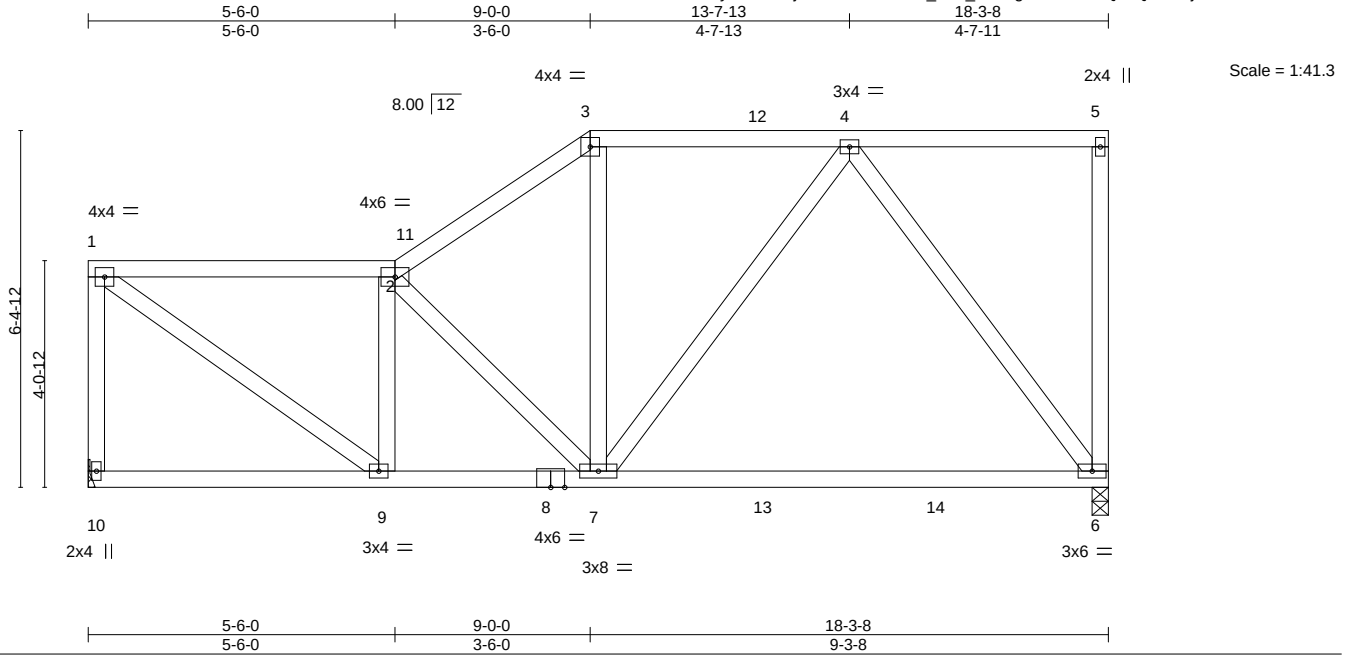
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-18(B) 9=-426(B) 12=-18(B) 13=-18(B) 14=-18(B) 15=-18(B) 16=-18(B) 17=-31(B) 18=-156(B) 19=-156(B) 20=-156(B) 21=-156(B) 22=-156(B) 23=-160(B)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080964
3458566	T28	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 08:50:32 2023 Page 1

ID:34H8XGfJR7cy5v0mDRjN9AzhEYD-uNkL_Czb_Ds92gJtR?ZbGtQnkQBVxbjCVC3xrza4VL



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	Vert(LL)	-0.29	6-7	>733	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.88	Vert(CT)	-0.49	6-7	>443		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.69	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 121 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 10=Mechanical, 6=0-3-8
Max Horz 10=80(LC 12)
Max Uplift 10=-124(LC 12), 6=-160(LC 9)
Max Grav 10=723(LC 2), 6=746(LC 2)

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

TOP CHORD 1-10=-625/138, 1-2=-726/104, 2-3=-748/110, 3-4=-590/119
BOT CHORD 7-9=-188/742, 6-7=-100/390
WEBS 1-9=-121/864, 2-9=-426/91, 4-7=-59/354, 4-6=-621/171

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 18-1-12 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.
- 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) 10=124, 6=160.

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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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080965
3458566	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	3-9-11	7-0-0	11-10-12	16-9-8	
1-6-0	3-9-11	3-2-5	4-10-12	4-10-12	

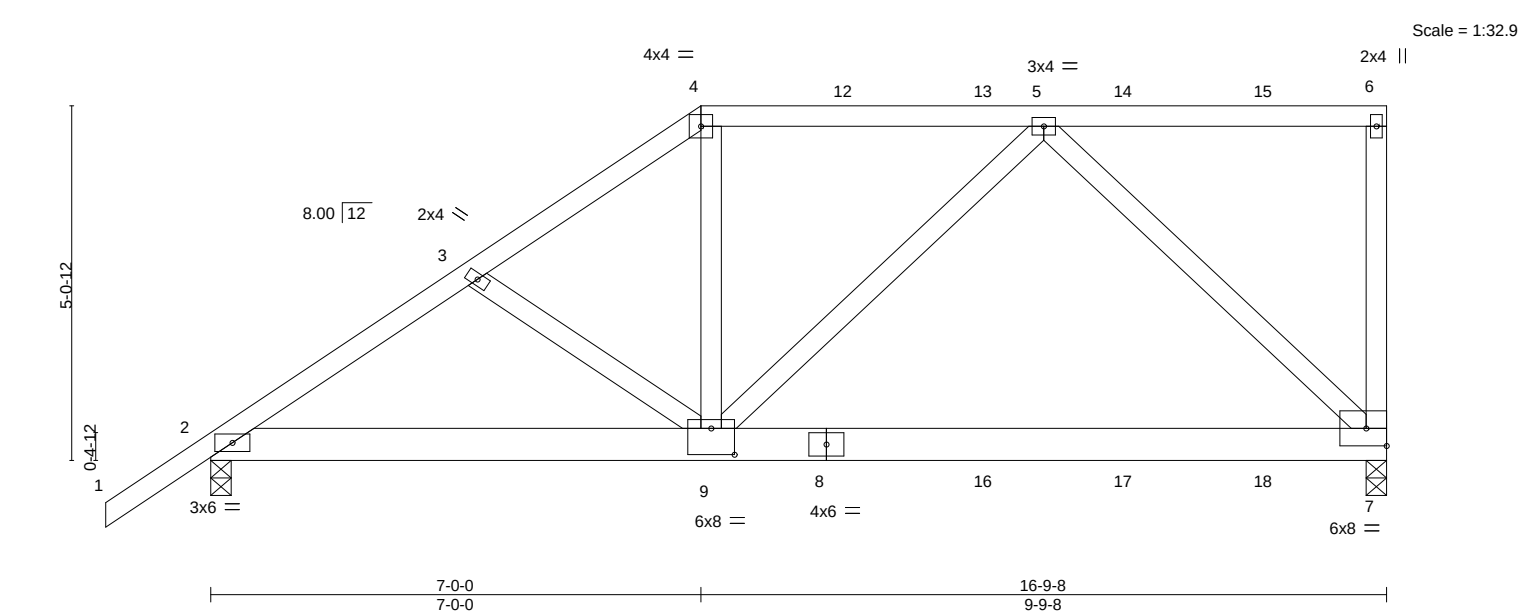


Plate Offsets (X,Y)--		[9:0-4-0,0-4-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.20	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.31				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.02				
BCDL	10.0	Code	FBC2020/TPI2014	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	

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

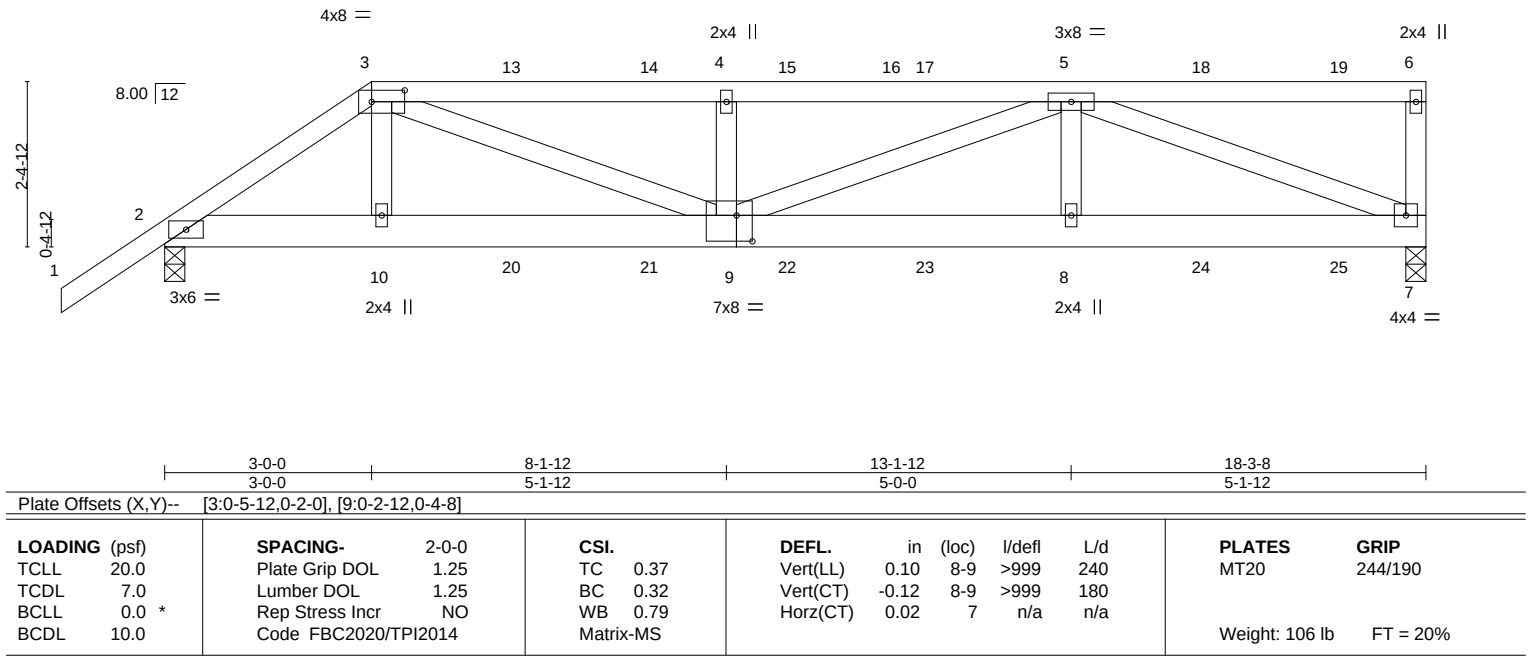
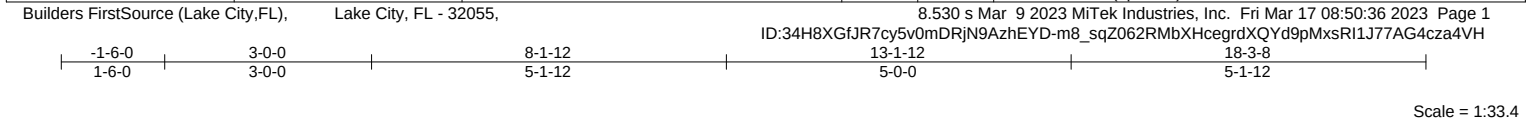
March 20,2023

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841
3458566	T29	Half Hip Girder	1	1	T30080965

Builders FirstSource (Lake City,FL),
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8.530 s Mar 9 2023
MiTek Industries, Inc.
Fri Mar 17 08:50:34 2023
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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)

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080966
3458566	T30	Half Hip Girder	1	1	Job Reference (optional)	



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	BOT CHORD Rigid ceiling directly applied or 8-1-10 oc bracing.
WEBS 2x4 SP No.3	

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-**
- 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) 7=435, 2=394.
 - 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.
 - 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

Job	Truss	Truss Type	Qty	Ply	EXCEPTIONS - 1841	T30080966
3458566	T30	Half Hip Girder	1	1	Job Reference (optional)	

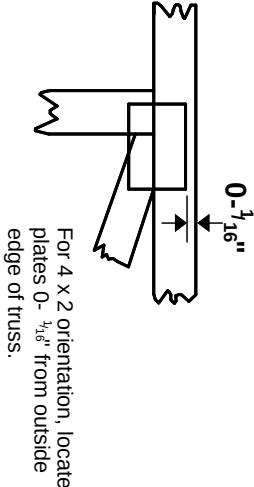
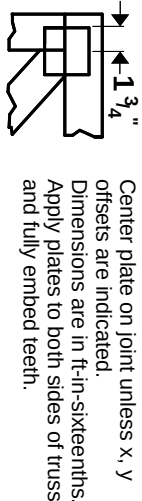
Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Mar 9 2023
MiTek Industries, Inc.
Fri Mar 17 08:50:36 2023
Page 2
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LOAD CASE(S)
Standard
Concentrated Loads (lb)
Vert: 3=-6(F) 10=-18(F) 8=-8(F) 5=-6(F) 13=-6(F) 14=-6(F) 15=-6(F) 17=-6(F) 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



For 4 x 2 orientation, locate plates 0- 3/16" from outside edge of truss.

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

PLATE SIZE

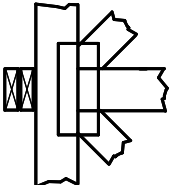
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

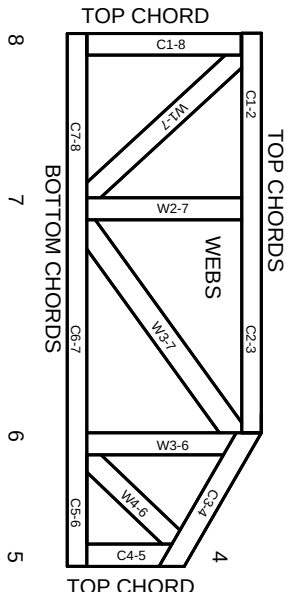
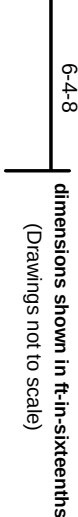
BEARING



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

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:
ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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