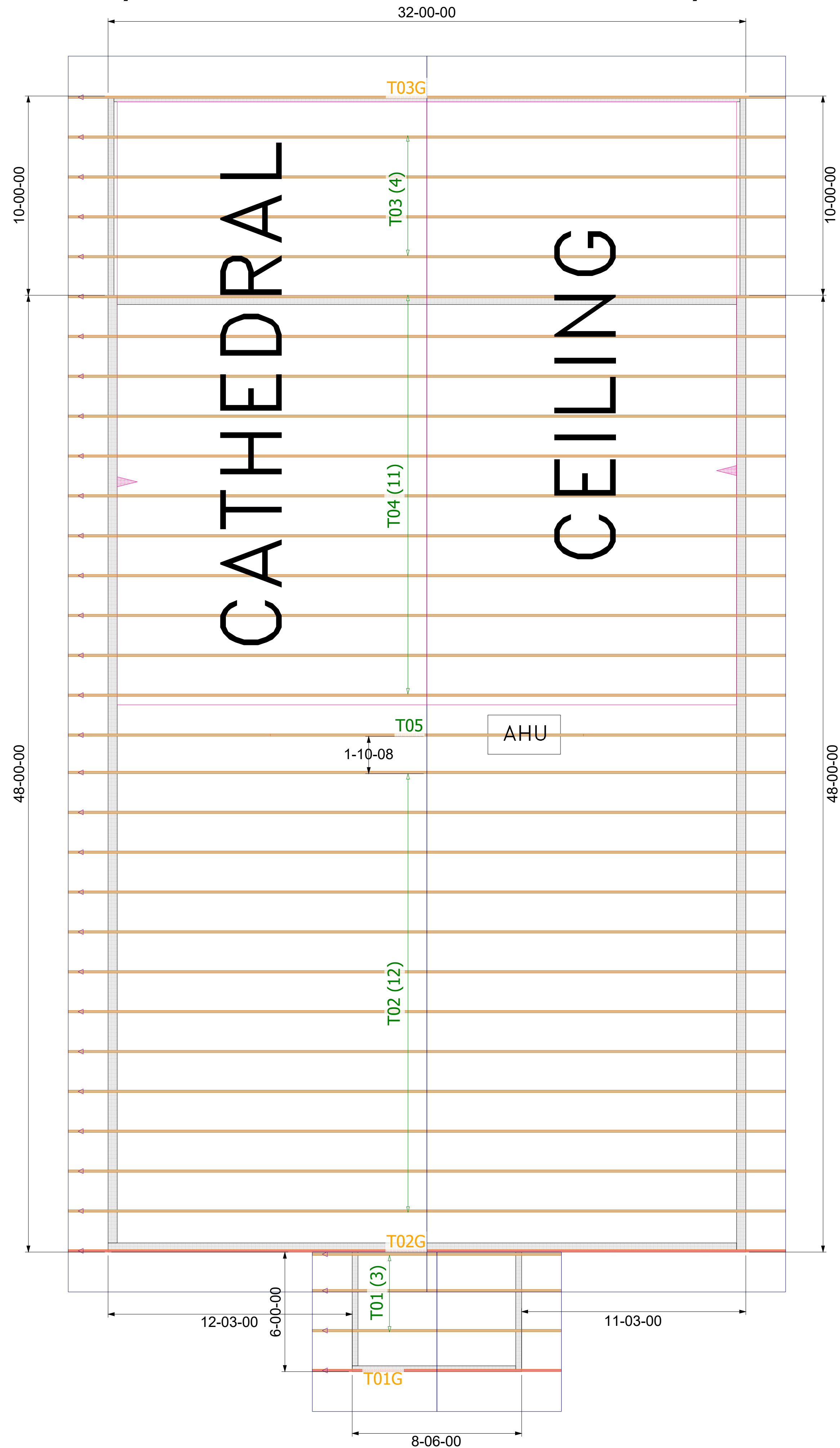
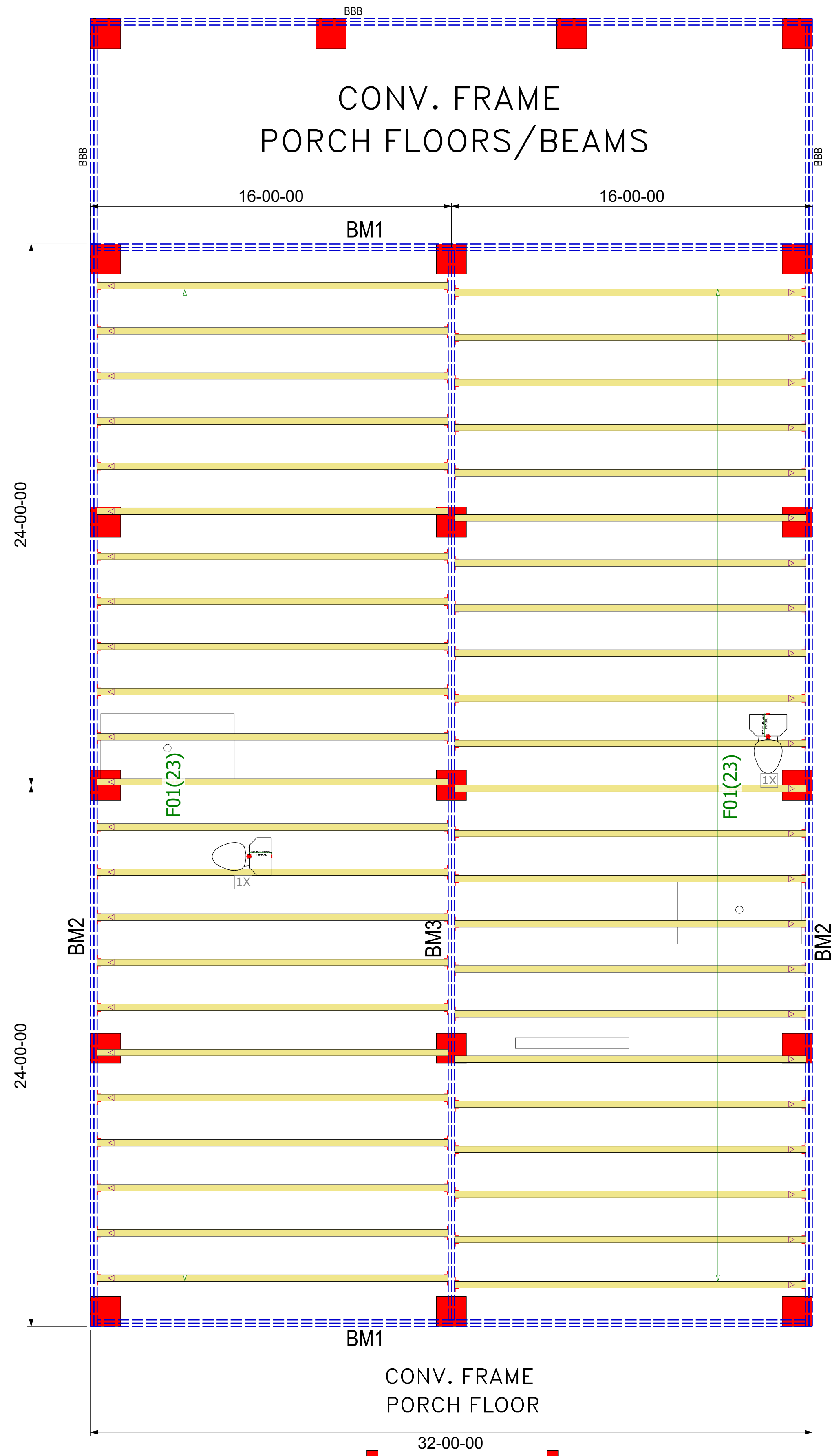
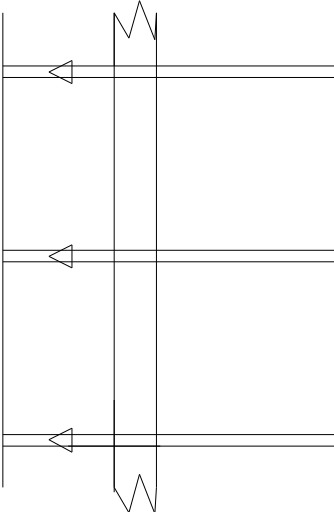


16” DEEP – 24”O/C

6/12 PITCH – 24” 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: AMIRA BUILDERS

Legal Address: Depree Res.

Model: Custom

Date:	Drawn By:	Original Ref #:
4-15-24	KLH	3958594
Floor 1 Job#	Floor 2 Job#:	Roof Job #:
N/A	N/A	3958594



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

RE: 3958594 - AMIRA BLDRS. - DEGREE RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: AMIRA BLDRS. Project Name: Degree Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
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: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 9 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
1	T33682787	F01	4/29/24
2	T33682788	T01	4/29/24
3	T33682789	T01G	4/29/24
4	T33682790	T02	4/29/24
5	T33682791	T02G	4/29/24
6	T33682792	T03	4/29/24
7	T33682793	T03G	4/29/24
8	T33682794	T04	4/29/24
9	T33682795	T05	4/29/24

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.

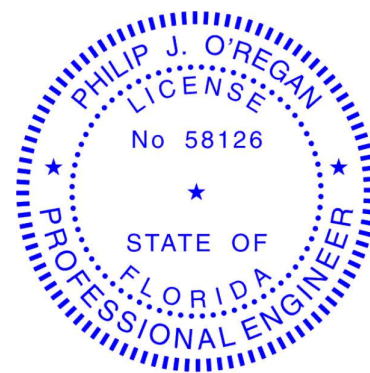
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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:

April 29, 2024

ORegan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.
3958594	F01	FLOOR	46	1	T33682787

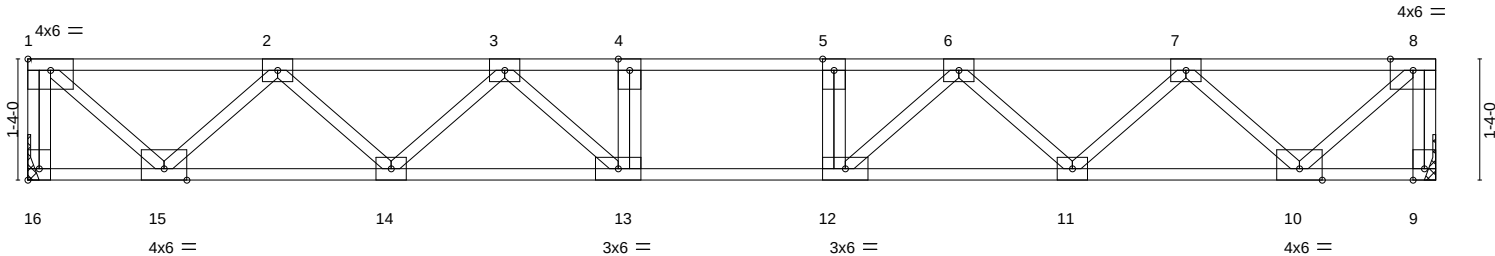
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:29 2024 Page 1

ID:2OCUC4HC1z6FefYz3xwLhFzQWwO-BHZqVDX8nZh5HCY?wZTL70pu27I1avgNB?VybQzMx6K



Scale = 1:25.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.17 13-14 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.22 13-14 >840 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.04 9 n/a n/a				
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							
								Weight: 84 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (size) 16=Mechanical, 9=Mechanical
Max Grav 16=839(LC 1), 9=839(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-833/0, 8-9=-833/0, 1-2=-829/0, 2-3=-1982/0, 3-4=-2609/0, 4-5=-2609/0, 5-6=-2609/0, 6-7=-1982/0, 7-8=-829/0
BOT CHORD 14-15=0/1562, 13-14=0/2374, 12-13=0/2609, 11-12=0/2374, 10-11=0/1562
WEBS 8-10=0/1103, 1-15=0/1103, 7-10=-1019/0, 2-15=-1019/0, 7-11=0/584, 2-14=0/584, 6-11=-546/0, 3-14=-546/0, 6-12=0/559, 3-13=0/559, 4-13=-275/0, 5-12=-275/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. 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:

April 29,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.	T33682788
3958594	T01	Common	3	1	Job Reference (optional)	

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

8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:29 2024 Page 1

ID:2OCUC4HC1z6FefYz3xwLhFzQWwO-BHZqVDX8nZh5HCY?wZTL70pvb7TQa0pNB?VybQzMx6K



Scale = 1:23.0

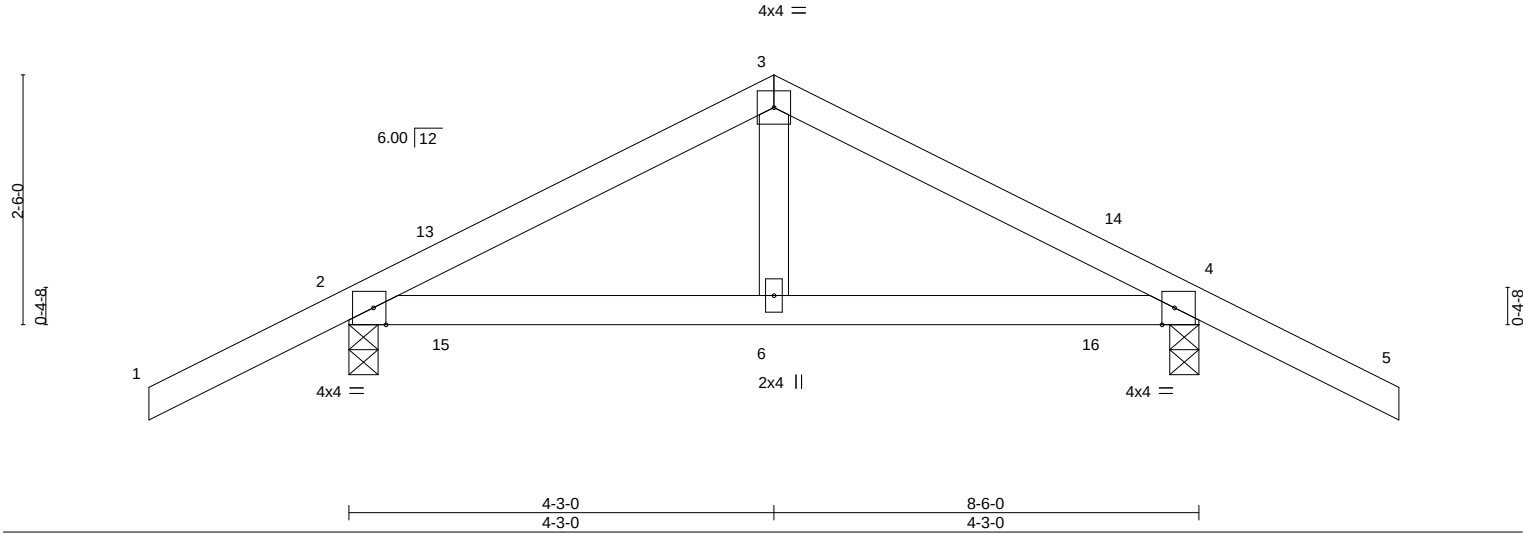


Plate Offsets (X,Y)--		[2:0-1-8,Edge], [4:0-1-8,Edge]	
LOADING (psf)		SPACING-	2-0-0
TCLL	20.0	Plate Grip DOL	1.25
TCDL	7.0	Lumber DOL	1.25
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	FBC2023/TPI2014
		CSI.	
		TC	0.54
		BC	0.18
		WB	0.07
		Matrix-MS	
		DEFL.	
		in (loc)	I/defl
		Vert(LL)	0.03 6-12 >999 240
		Vert(CT)	-0.02 6-12 >999 180
		Horz(CT)	0.00 4 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 37 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.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-70(LC 13)
Max Uplift 2=-209(LC 12), 4=-209(LC 13)
Max Grav 2=422(LC 1), 4=422(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-369/461, 3-4=-369/461
BOT CHORD 2-6=-210/288, 4-6=-210/288

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-3-0, Zone2 4-3-0 to 8-6-0, Zone1 8-6-0 to 10-6-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2 and 209 lb uplift at joint 4.

This item has been digitally signed and sealed by O'Regan, Philip, PE on the date indicated here. 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:

April 29,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.	T33682789
3958594	T01G	GABLE	1	1	Job Reference (optional)	

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

8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:30 2024 Page 1

ID:2OCUC4HC1z6FefYz3xwLhFzQWwO-gT7CiZXmYtpyvM6BUG_agDM2QXp2JUBWQfEV7tzMx6J

-2-0-0
2-0-0

4-3-0
4-3-0

8-6-0
4-3-0

10-6-0
2-0-0

Scale: 1/2"=1'

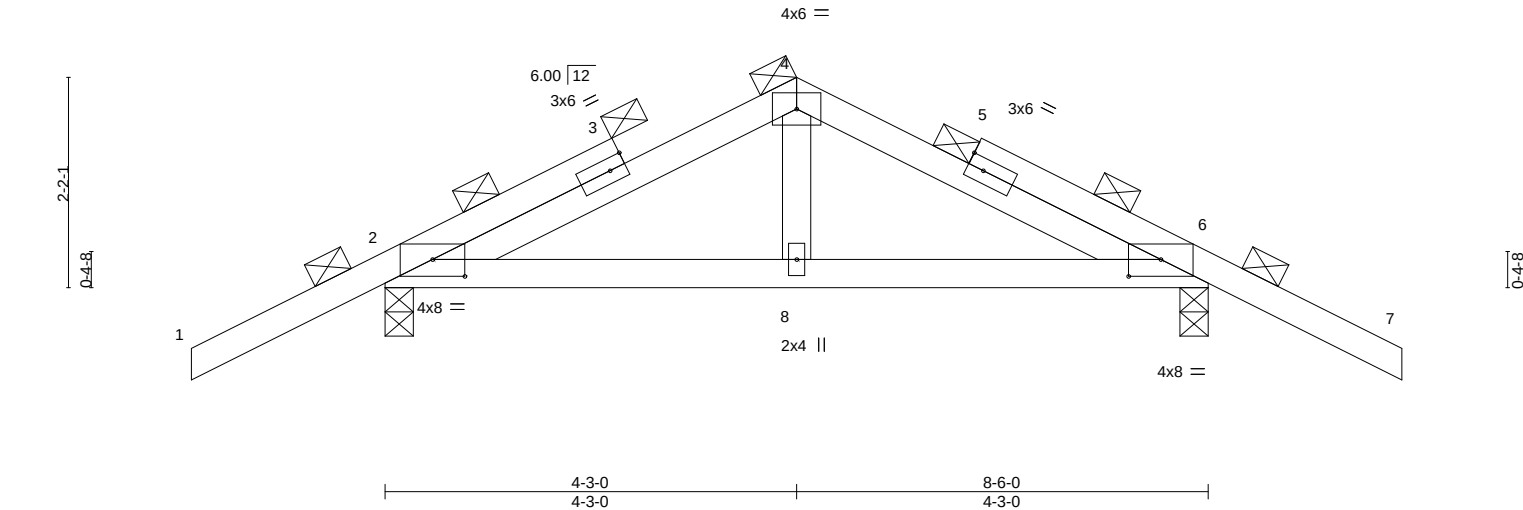


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [6:0-4-0,0-2-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66
TCDL 7.0	Lumber DOL	1.25	BC 0.15
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.02 8-14 >999 240
			Vert(CT) -0.01 8-11 >999 180
			Horz(CT) 0.00 6 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 42 lb FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=63(LC 12)
	Max Uplift 2=-212(LC 12), 6=-212(LC 13)
	Max Grav 2=420(LC 1), 6=420(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-350/563, 4-6=-350/564
BOT CHORD	2-8=-300/300, 6-8=-300/300

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 212 lb uplift at joint 6.
 - 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 digitally signed and sealed by O'Regan, Philip, PE on the date indicated here. 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:

April 29,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

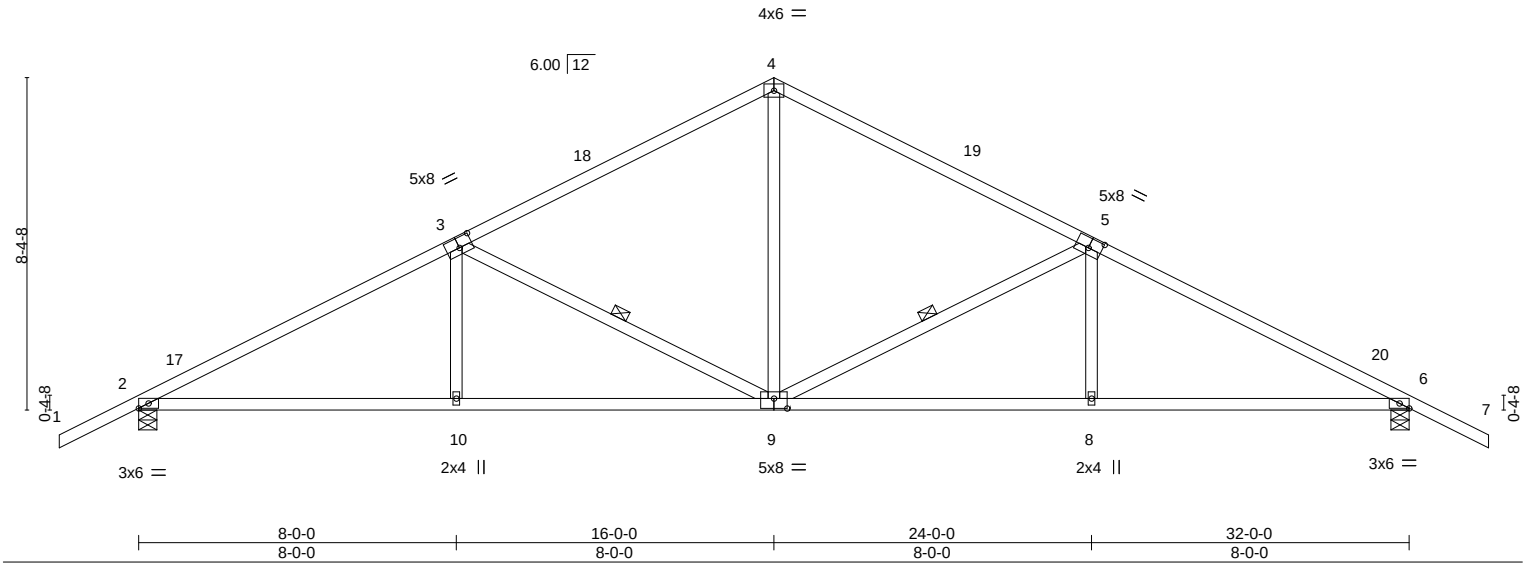
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.	T33682790
3958594	T02	Common	12	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:30 2024 Page 1
ID:2OCUC4HC1z6FefYz3xwLhFzQWwO-gT7CiZXmYtpyvM6BUG_agDM1jXg1JPaWQfEV7tzMx6J
-2-0-0 8-0-0 16-0-0 24-0-0 32-0-0 34-0-0
2-0-0 8-0-0 8-0-0 8-0-0 8-0-0 2-0-0

Scale = 1:58.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	0.14 10-13 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.24 9-10 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.09 6 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 156 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-5-4 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-9, 3-9

REACTIONS.	
(size)	2=0-5-8, 6=0-5-8
Max Horz	2=203(LC 12)
Max Uplift	2=-565(LC 12), 6=-565(LC 13)
Max Grav	2=1292(LC 1), 6=1292(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2123/834, 3-4=-1439/672, 4-5=-1439/672, 5-6=-2123/834
BOT CHORD	2-10=-787/1829, 9-10=-787/1828, 8-9=-623/1828, 6-8=-623/1829
WEBS	4-9=-285/804, 5-9=-730/516, 5-8=0/332, 3-9=-730/515, 3-10=0/332

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 34-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 565 lb uplift at joint 2 and 565 lb uplift at joint 6.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. 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:

April 29,2024

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.	T33682791
3958594	T02G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:31 2024 Page 1
ID:20CUC4HC1z6FefYz3xwLhFzQWwO-8fgavvYOJAxpWWhN2zVpCRul7xA42uffeJ_2fJzMx6l
-2-0-0 16-0-0 32-0-0 34-0-0
2-0-0 16-0-0 32-0-0 2-0-0

Scale = 1:60.6

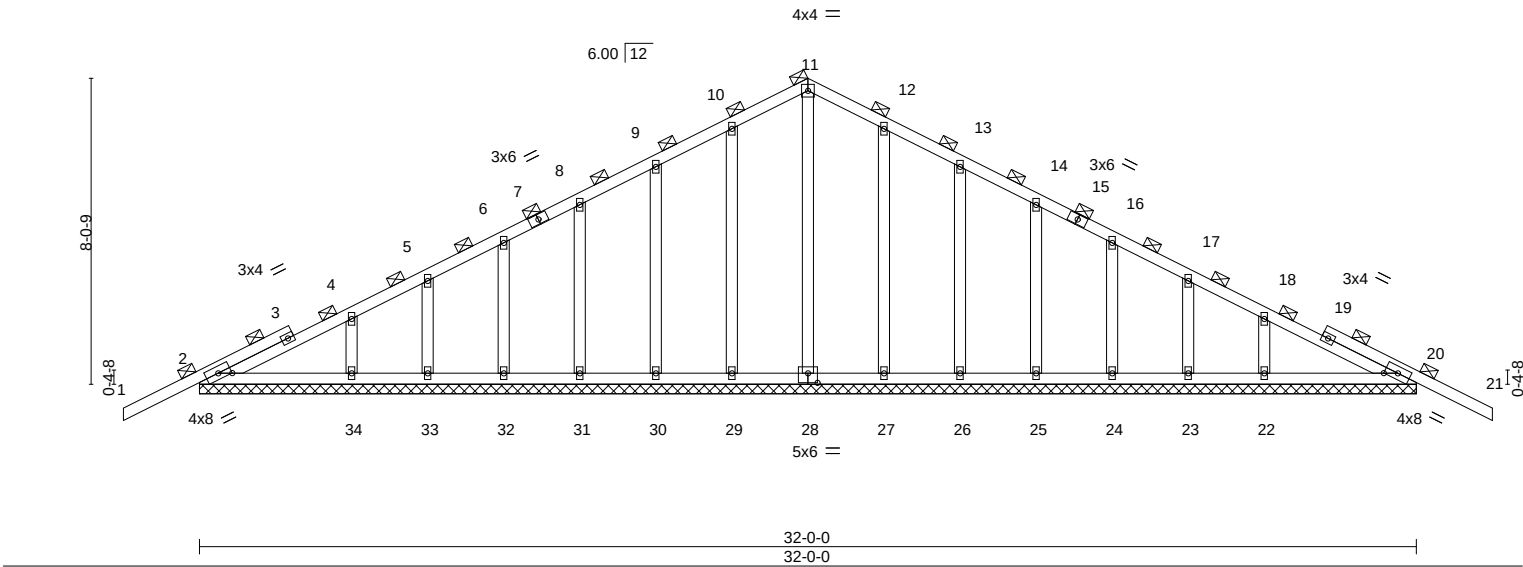


Plate Offsets (X,Y)--		[2:0-4-0,0-1-15], [20:0-4-0,0-1-15], [28:0-3-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSL.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34
TCDL 7.0	Lumber DOL	1.25	BC 0.10
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.02 21 n/r 120
			Vert(CT) -0.02 21 n/r 120
			Horz(CT) 0.01 20 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 196 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 32-0-0.
(lb) - Max Horz	2=195(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) 2, 33, 27, 23 except 29=-101(LC 12), 30=-104(LC 12), 31=-101(LC 12), 32=-103(LC 12), 34=-125(LC 12), 26=-105(LC 13), 25=-100(LC 13), 24=-103(LC 13), 22=-133(LC 13), 20=-119(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 28, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except 2=267(LC 1), 20=267(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	9-10=-86/301, 10-11=-108/371, 11-12=-108/371, 12-13=-86/301

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 27, 23 except (jt=lb) 29=101, 30=104, 31=101, 32=103, 34=125, 26=105, 25=100, 24=103, 22=133, 20=119.
 - 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 digitally signed and sealed by O'Regan, Philip, PE on the date indicated here. 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:

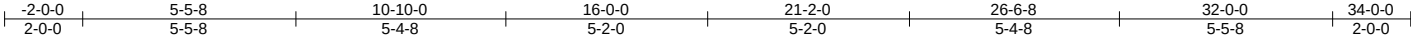
April 29,2024

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.	T33682792
3958594	T03	Scissor	4	1	Job Reference (optional)	

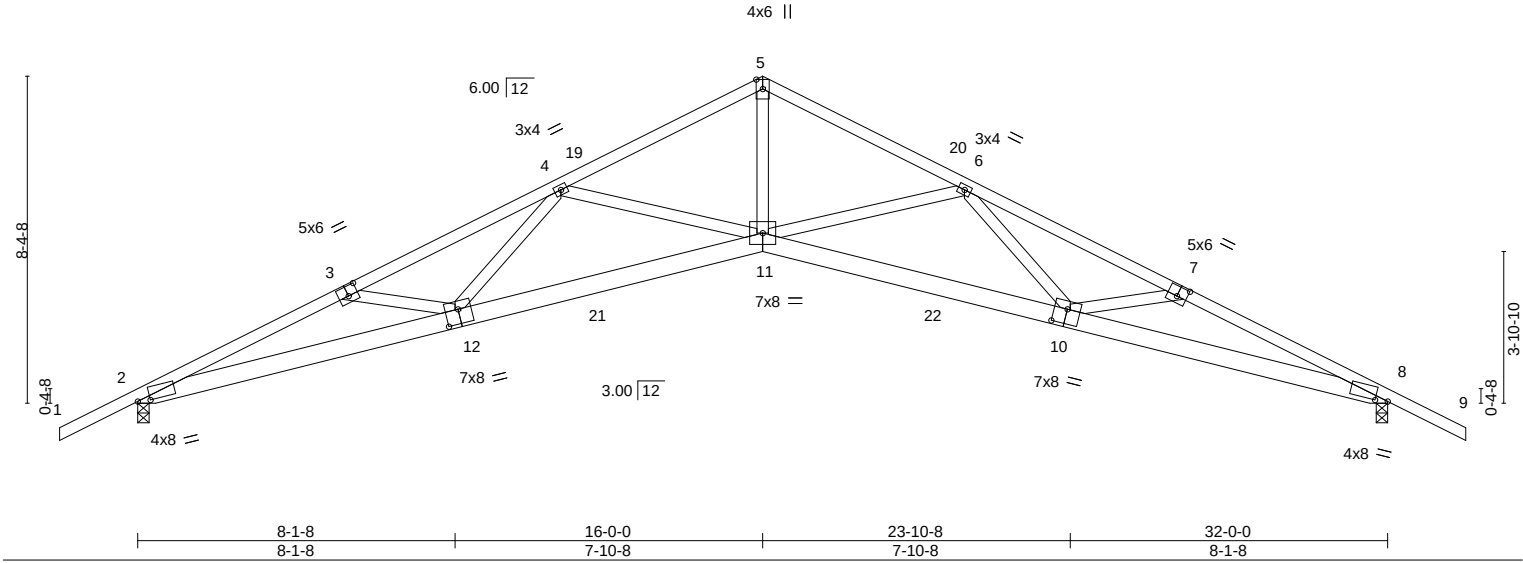
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:32 2024 Page 1

ID:2OCUC4HC1z6FefYz3xwLhFzQWwO-csEy7FZ04U3g8gGabh02leROeKNznCGptzjcBlzMx6H



Scale = 1:59.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.45 11-12 >862 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.66 10-11 >580 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.43 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 179 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-1 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 4-4-5 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=203(LC 12)
Max Uplift	2=-626(LC 9), 8=-626(LC 8)
Max Grav	2=1292(LC 1), 8=1292(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-4022/3051, 3-4=-3679/2876, 4-5=-2664/1993, 5-6=-2664/1972, 6-7=-3679/2910, 7-8=-4022/3085
BOT CHORD	2-12=-2636/3668, 11-12=-2024/3106, 10-11=-2090/3106, 8-10=-2701/3668
WEBS	5-11=-1574/2074, 6-11=-722/718, 6-10=-482/534, 7-10=-328/366, 4-11=-722/718, 4-12=-484/534, 3-12=-328/361

- NOTES-**
- Unbalanced roof live loads HAVE been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-15, Zone1 1-2-15 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 34-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=626, 8=626.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. 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:

April 29,2024

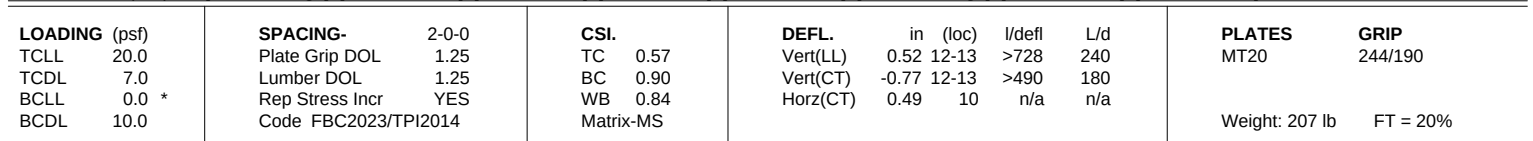
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:33 2024 Page 1
 ID:20CUC4HC1z6FefYz3xwLhFzQWwO-42oLKbaeroCXmrm9OYHls_b2ke7Wemy6dT9kKzMXGg

 Scale = 1:61.6



REACTIONS. (size) 2=0-5-8, 10=0-3-8
 Max Horz 2=196(LC 16)
 Max Uplift 2=-623(LC 9), 10=-622(LC 8)
 Max Grav 2=1291(LC 1), 10=1286(LC 1)

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

TOP CHORD	2-4=-4767/3674, 4-5=-4122/3223, 5-6=-2819/2096, 6-7=-2819/2075, 7-8=-4160/3290, 8-10=-4831/3760
BOT CHORD	2-14=-3286/4483, 13-14=-2284/3424, 12-13=-2365/3441, 10-12=-3406/4550
WEBS	6-13=-1659/2201, 7-13=-878/865, 7-12=-615/683, 8-12=-721/576, 5-13=-863/852, 5-14=-594/664, 4-14=-691/553

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 34-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=623, 10=622.
- 11) 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 digitally signed and sealed by O'Regan, Philip, PE on the date indicated here. 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:

April 29, 2024

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. 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:

April 29, 2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DS-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

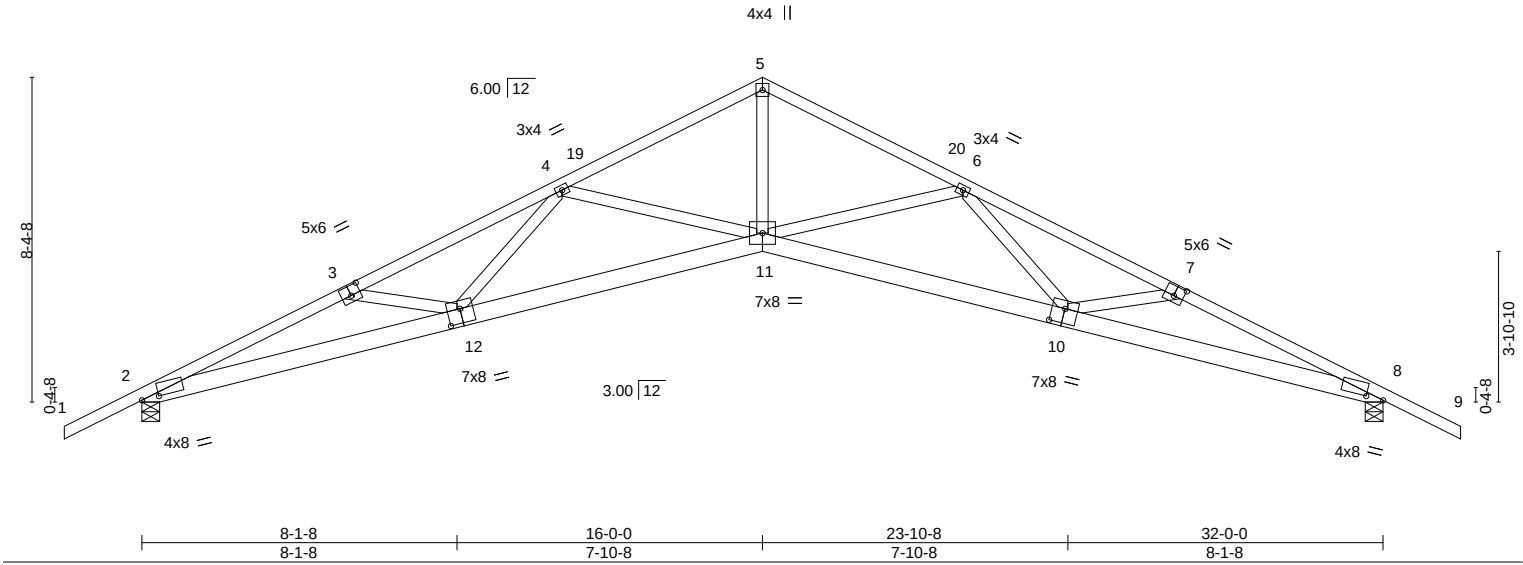
MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.	T33682794
3958594	T04	Scissor	11	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:34 2024 Page 1
ID:2OCUC4HC1z6FefYz3xwLhFzQWwO-YEMjYxaHc5KONzQyj63Wq3WmO82RF6m6LHCjGezMx6F
2-0-0 5-5-8 10-10-0 16-0-0 21-2-0 26-6-8 32-0-0 34-0-0
2-0-0 5-5-8 5-4-8 5-2-0 5-2-0 5-4-8 5-5-8 2-0-0

Scale = 1:59.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.37 11-12 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.66 10-11 >580 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.43 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 179 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-1 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-8-7 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-5-8, 8=0-5-8
Max Horz	2=203(LC 12)
Max Uplift	2=-564(LC 12), 8=-564(LC 13)
Max Grav	2=1292(LC 1), 8=1292(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-4022/1725, 3-4=-3679/1469, 4-5=-2664/972, 5-6=-2664/970, 6-7=-3679/1336, 7-8=-4022/1522
BOT CHORD	2-12=-1661/3668, 11-12=-1208/3106, 10-11=-983/3106, 8-10=-1282/3668
WEBS	5-11=-702/2074, 6-11=-722/555, 6-10=-168/534, 7-10=-328/366, 4-11=-722/549, 4-12=-157/534, 3-12=-328/361

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-15, Zone1 1-2-15 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 34-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=564, 8=564.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. 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:

April 29,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	AMIRA BLDRS. - DEPREE RES.	T33682795
3958594	T05	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.730 s Apr 3 2024 MiTek Industries, Inc. Fri Apr 26 06:09:34 2024 Page 1						
ID:2OCUC4HC1z6FefYz3xwLhFzQWwO-YEMjYxaHc5KONzQyJ63Wq3Wo282_F6i6LHCjGezMx6F										
-2-0-0	4-4-0	8-1-12	10-10-0	16-0-0	21-2-0	23-10-4	27-8-0	32-0-0	34-0-0	
2-0-0	4-4-0	3-9-12	2-8-4	5-2-0	5-2-0	2-8-4	3-9-12	4-4-0	2-0-0	

Scale = 1:59.6

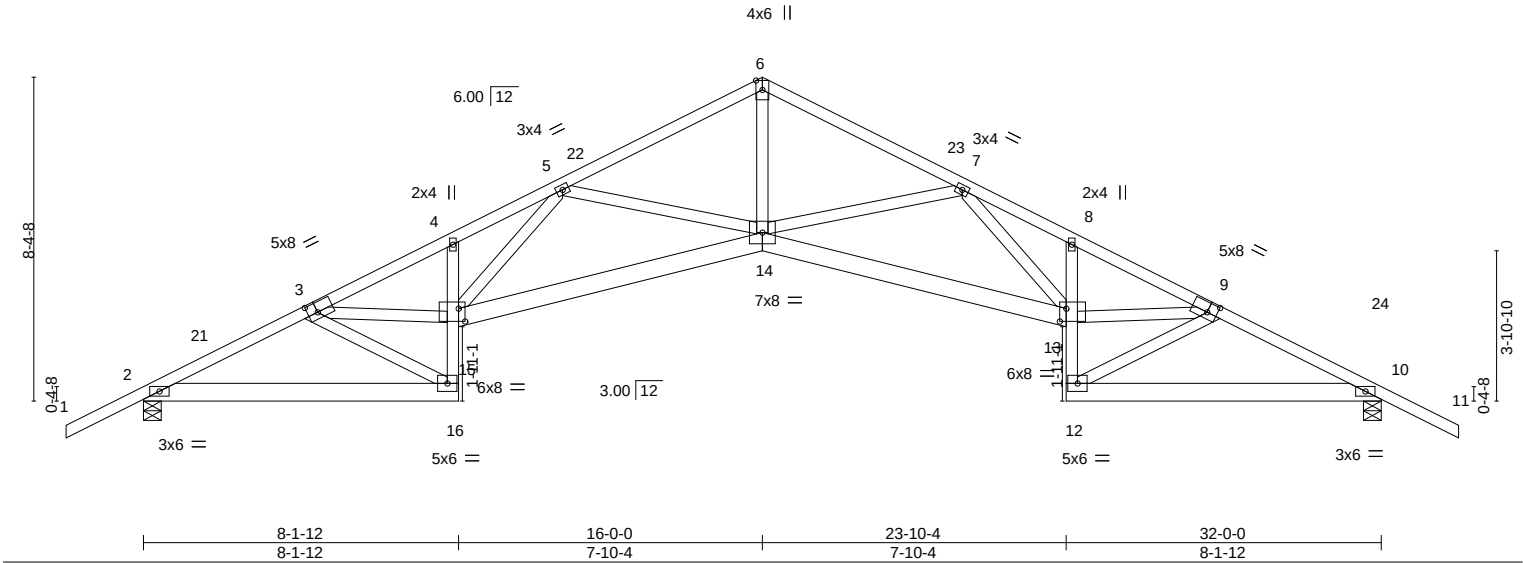


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [9:0-3-0,0-3-0], [13:0-2-0,0-4-0], [15:0-2-0,0-4-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	TC 0.43
		BC 0.67
		WB 0.79
		Matrix-MS
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	0.34 14-15 >999 240
	Vert(CT)	-0.63 13-14 >605 180
	Horz(CT)	0.40 10 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 203 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-13 oc purlins.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-9-3 oc bracing.
4-16,8-12: 2x4 SP No.2	
WEBS 2x4 SP No.3 *Except*	
9-13,3-15: 2x4 SP No.2	

REACTIONS. (size) 2=0-5-8, 10=0-5-8
Max Horz 2=203(LC 12)
Max Uplift 2=-565(LC 12), 10=-565(LC 13)
Max Grav 2=1292(LC 1), 10=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2247/929, 3-4=-3679/1503, 4-5=-3704/1571, 5-6=-2665/966, 6-7=-2665/964,
7-8=-3704/1407, 8-9=-3679/1363, 9-10=-2247/927
BOT CHORD 2-16=-912/1974, 15-16=-517/1221, 14-15=-1197/3088, 13-14=-982/3088,
12-13=-399/1221, 10-12=-713/1974
WEBS 6-14=-682/2058, 7-14=-696/550, 9-13=-1008/3102, 9-12=-2140/783, 5-14=-696/543,
3-15=-1277/3102, 3-16=-2140/1003, 5-15=-280/543, 7-13=-290/543

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 34-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=565, 10=565.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. 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:

April 29,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

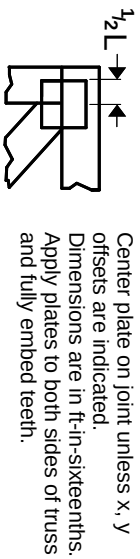
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

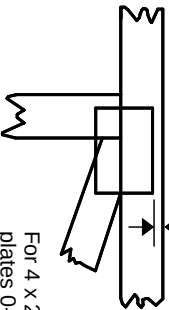
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

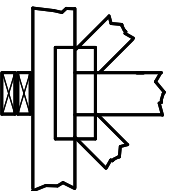
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

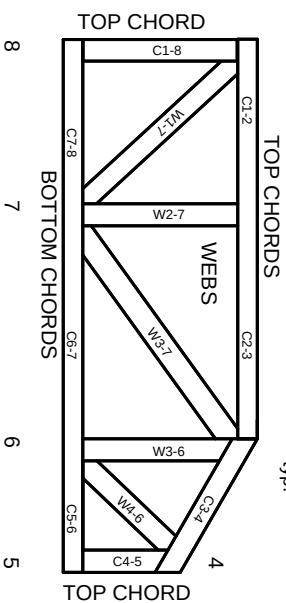
Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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

1 2 3 Joint ID typ.



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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.

© 2023 MITek® All Rights Reserved

MITek®

MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

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.