



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

RE: 4542257 - JFC - WEBB

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: JOHN F CRAWFORD HOMES Project Name: Webb Res Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Alachua 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 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 16 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	T36772266	T01	3/25/25	15	T36772280	T11G	3/25/25
2	T36772267	T01G	3/25/25	16	T36772281	T12G	3/25/25
3	T36772268	T02	3/25/25				
4	T36772269	T03	3/25/25				
5	T36772270	T03G	3/25/25				
6	T36772271	T04	3/25/25				
7	T36772272	T04G	3/25/25				
8	T36772273	T05	3/25/25				
9	T36772274	T06	3/25/25				
10	T36772275	T07	3/25/25				
11	T36772276	T08	3/25/25				
12	T36772277	T09	3/25/25				
13	T36772278	T10	3/25/25				
14	T36772279	T10G	3/25/25				

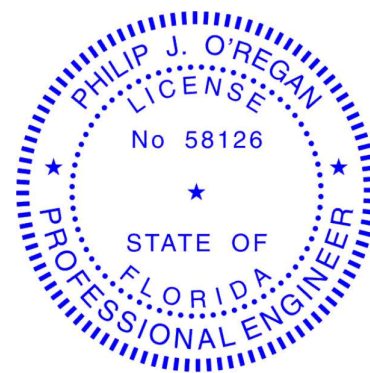
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2027.

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 25, 2025

ORegan, Philip

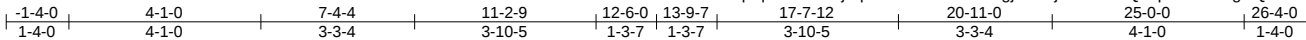
1 of 1

Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772266
4542257	T01	ATTIC	4	1	Job Reference (optional)	

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

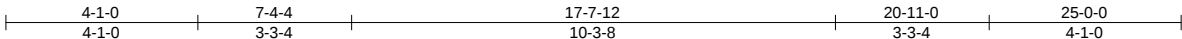
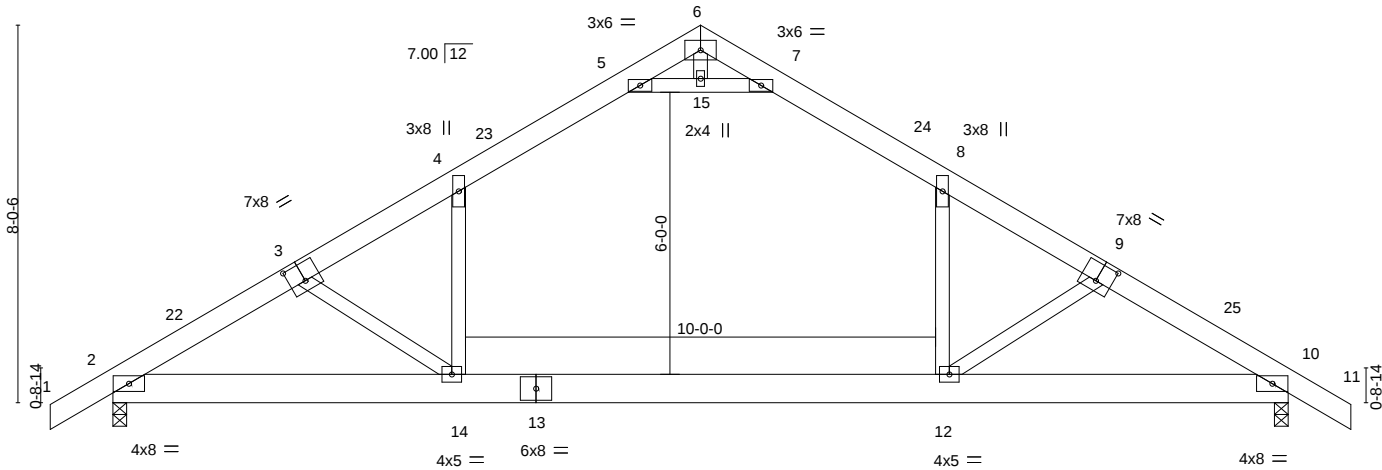
8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:44 2025 Page 1

ID:9aOkn3plqtKJ13aAiajeqDzXol1-nWCTNe6gj9bRnjMH2wnNQk?p1WvsRAgHQrzeW9zXkSL



5x8 =

Scale = 1:49.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.29 12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.52 12-14	>572	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.02 10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.13 12-14	926	360	Weight: 182 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except*
1-3,9-11: 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
Max Horz 2=199(LC 11)
Max Uplift 2=-128(LC 12), 10=-128(LC 13)
Max Grav 2=1510(LC 20), 10=1510(LC 21)

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

TOP CHORD 2-3=-2478/67, 3-4=-2186/55, 4-5=-1597/130, 5-6=0/1010, 6-7=0/1010, 7-8=-1596/129,
8-9=-2185/55, 9-10=-2479/68
BOT CHORD 2-14=-121/2248, 12-14=0/1711, 10-12=0/2104
WEBS 5-15=-2872/101, 7-15=-2872/101, 4-14=0/997, 8-12=0/997, 3-14=-668/191,
9-12=-669/192, 6-15=0/284

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 26-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.
- Attic room checked for L/360 deflection.

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:

March 25,2025

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	JFC - WEBB	T36772267
4542257	T01G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:45 2025 Page 1
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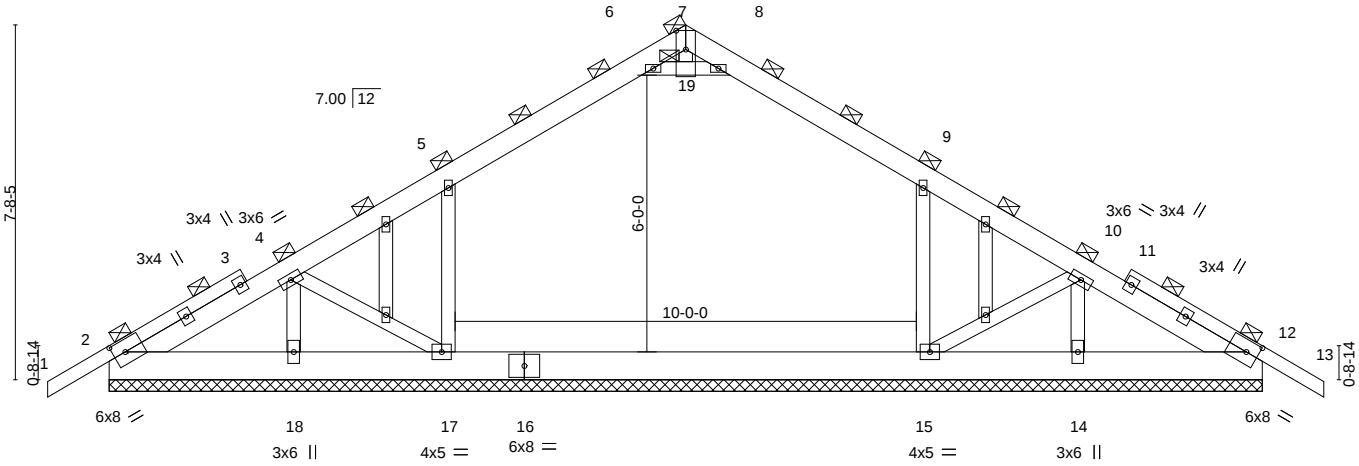
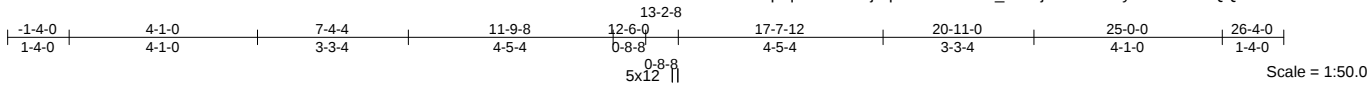


Plate Offsets (X,Y)--	[2:0-3-1,0-3-0], [12:0-3-1,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.00	13	n/r	120	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	0.00	12	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	12	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 193 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-3,11-13: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 7, 19

REACTIONS.

All bearings 25-0-0.
(lb) - Max Horz 2=189(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 18 except 17=153(LC 12), 15=151(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 18 except 2=510(LC 1), 12=510(LC 1), 17=911(LC 20), 15=908(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-629/87, 4-5=-421/62, 5-6=-467/120, 8-9=-467/118, 9-10=-421/57, 10-12=-629/80
BOT CHORD 2-18=-87/533, 17-18=-87/533, 15-17=-6/354, 14-15=-33/500, 12-14=-33/500
WEBS 6-19=-266/139, 8-19=-266/139, 5-17=-372/138, 9-15=-367/134

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=20ft; Cat. II; Exp B; 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, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-19, 8-19; Wall dead load (5.0psf) on member(s).5-17, 9-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 14, 18 except (jt=lb) 17=153, 15=151.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

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

March 25,2025

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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 **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

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Scale: 1/4"=1'

Diagram illustrating a structural truss system with dimensions and member labels. The truss is supported by four columns (1, 3, 10, 11) and has a total height of 8'-0.6". The roof slope is 7:12. The truss members are labeled with numbers 1 through 23. The dimensions are as follows:

- Overall height: 8'-0.6"
- Roof slope: 7:12
- Horizontal dimensions (from left to right): 4'-1.0", 7'-4.4", 11'-2.9", 12'-6.0", 13'-9.7", 17'-7.12", 20'-9.0", 24'-10.0", 4'-1.0"
- Vertical dimensions (from bottom to top): 0'-8.14", 6'-0.0", 0'-10.1"
- Member labels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 20, 21, 22, 23
- Supports: 4x8 = (at 1), 4x5 = (at 3), 6x8 = (at 10), 4x5 = (at 11), 4x8 = (at 11)

LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26	TOP CHORD	Structural wood sheathing directly applied or 5-5-11 oc purlins.
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, 9=0-3-8
 Max Horz 1=180(LC 9)
 Max Uplift 1=-95(LC 12), 9=-91(LC 13)
 Max Grav 1=1425(LC 20), 9=1431(LC 21)

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

TOP CHORD	1-2=-2497/80, 2-3=-2174/57, 3-4=-1584/131, 4-5=0/1001, 5-6=0/996, 6-7=-1588/132, 7-8=-2170/58, 8-9=-2446/71
BOT CHORD	1-12=-153/2266, 10-12=0/1688, 9-10=-21/2063
WEBS	4-13=-2846/107, 6-13=-2846/107, 3-12=0/994, 7-10=0/991, 2-12=-703/204, 8-10=-641/197, 5-13=0/282

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0 to 3-0-0, Zone1 3-0-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 24-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-13, 6-13; Wall dead load (5.0psf) on member(s).3-12, 7-10
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- 9) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by ORegan, Philip, P on the date indicated here. Printed copies of this document are not considered valid.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 25, 2025

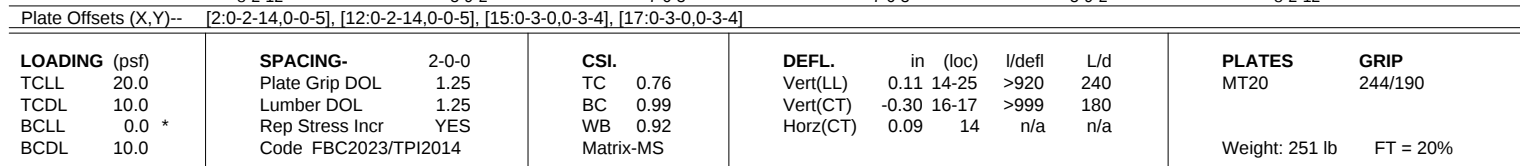


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 1-4-0 6-1-1 13-11-14 21-6-0 29-3-0 36-10-15 43-0-0 44-4-0
 1-4-0 6-1-1 7-10-13 7-6-3 7-6-3 7-10-13 6-1-1 1-4-0
 Scale = 1:77.2



REACTIONS. (size) 2=0-5-8, 14=0-5-8, 12=0-3-8
 Max Horz 2=190(LC 12)
 Max Uplift 2=-365(LC 12), 14=-430(LC 13), 12=-154(LC 8)
 Max Grav 2=1570(LC 2), 14=2191(LC 2), 12=316(LC 26)

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

TOP CHORD	2-4=-2579/589, 4-6=-2447/590, 6-7=-1336/376, 7-8=-1334/378, 8-10=-105/558, 10-12=-471/343
BOT CHORD	2-18=-624/2283, 17-18=-379/1807, 16-17=-379/1807, 15-16=-88/918, 14-15=-88/917
WEBS	4-18=-324/233, 6-18=-187/542, 6-17=0/366, 6-16=-955/377, 7-16=-161/778, 8-16=-78/350, 8-15=0/344, 8-14=-2038/409, 10-14=-423/257

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-11-10, Zone1 2-11-10 to 21-6-0, Zone2 21-6-0 to 27-7-0, Zone1 27-7-0 to 44-4-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=365, 14=430, 12=154.

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Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772270
4542257	T03G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:47 2025 Page 1

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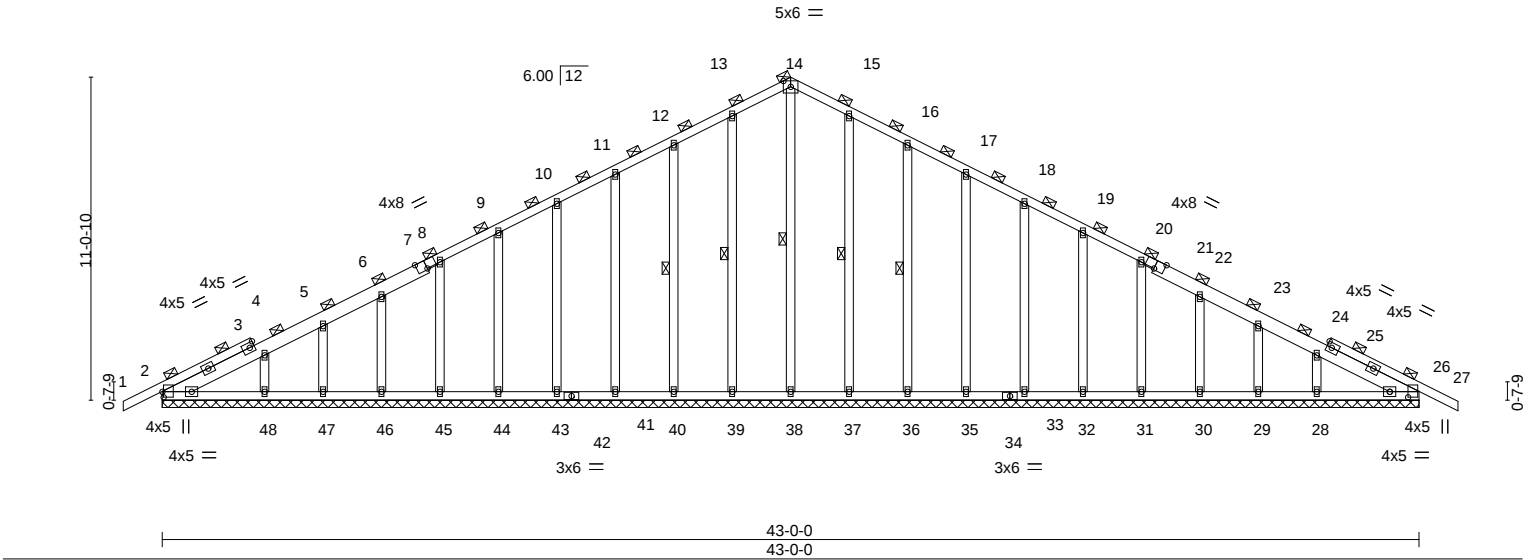
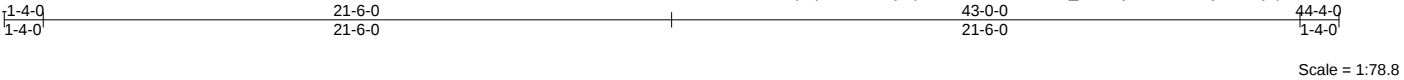


Plate Offsets (X,Y)-- [2:0-2-4,0-0-8], [7:0-4-0,Edge], [21:0-4-0,Edge], [26:0-2-4,0-7-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	-0.00	27	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.00	27	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 329 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-7,21-26: 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.). BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SP No.2	WEBS 1 Row at midpt 14-38, 13-39, 12-40, 15-37, 16-36
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 43-0-0.
(lb) - Max Horz 2=185(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28, 26
Max Grav All reactions 250 lb or less at joint(s) 2, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-109/276, 13-14=-125/319, 14-15=-125/319, 15-16=-109/276

- 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=20ft; Cat. II; Exp B; 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
 - 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 requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * 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.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28, 26.
 - 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 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:

March 25,2025

Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772271
4542257	T04	Roof Special	10	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:48 2025 Page 1

ID:9aOkn3plqtKJ13aAiajeqDzXol1-gHS_D?9BnO6tGLg2HlrJaaAUJ7GRN2TtLtxsfkzXkSH

1-4-0	6-4-0	11-11-8	17-10-6	21-11-14	27-3-0	29-6-0	37-0-3	42-6-8	46-6-0	51-0-0	52-4-0
1-4-0	6-4-0	5-7-8	5-10-14	4-1-8	5-3-2	2-3-0	7-6-3	5-6-5	3-11-8	4-6-0	1-4-0

Scale = 1:91.1

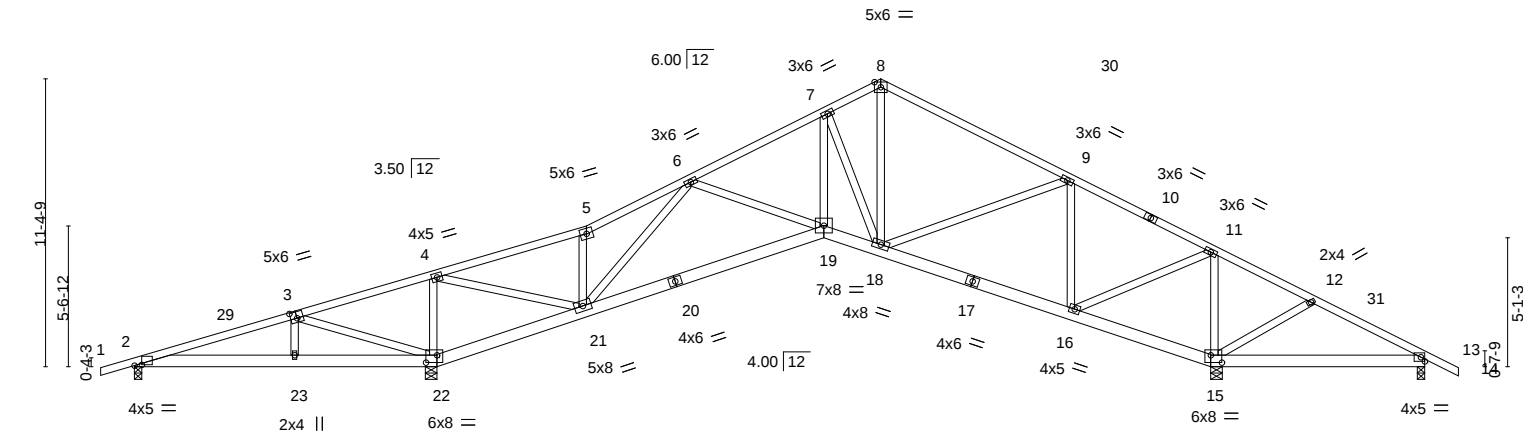


Plate Offsets (X, Y)--	[2:0-3-7,0-0-6], [3:0-3-0,0-3-0], [15:0-5-4,0-3-8], [22:0-5-4,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.10 19-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.23 19-21	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.10 15	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 321 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-5-8, 15=0-5-8.
(lb) - Max Horz 2=-192(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-254(LC 8), 22=-575(LC 12), 15=-422(LC 13), 13=-174(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 2, 13 except 22=2105(LC 1), 15=1967(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-154/601, 3-4=-371/1334, 4-5=-544/147, 5-6=-590/205, 6-7=-1329/270, 7-8=-914/265, 8-9=-1004/235, 9-11=-500/199, 11-12=-185/926, 12-13=-155/651
BOT CHORD 2-23=-517/159, 22-23=-519/158, 21-22=-1375/429, 19-21=-235/1097, 18-19=-84/1180, 16-18=-22/440, 15-16=-896/268, 13-15=-517/167
WEBS 3-23=-161/292, 3-22=-865/493, 4-22=-1318/416, 4-21=-399/1812, 5-21=-373/190, 6-21=-855/190, 7-19=-116/756, 7-18=-852/245, 8-18=-135/519, 9-18=-55/476, 9-16=-827/188, 11-16=-200/1319, 11-15=-1363/301, 12-15=-310/191

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-9-3, Zone1 3-9-3 to 29-6-0, Zone2 29-6-0 to 36-8-9, Zone1 36-8-9 to 52-4-0 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) 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 254 lb uplift at joint 2, 575 lb uplift at joint 22, 422 lb uplift at joint 15 and 174 lb uplift at joint 13.

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:

March 25,2025

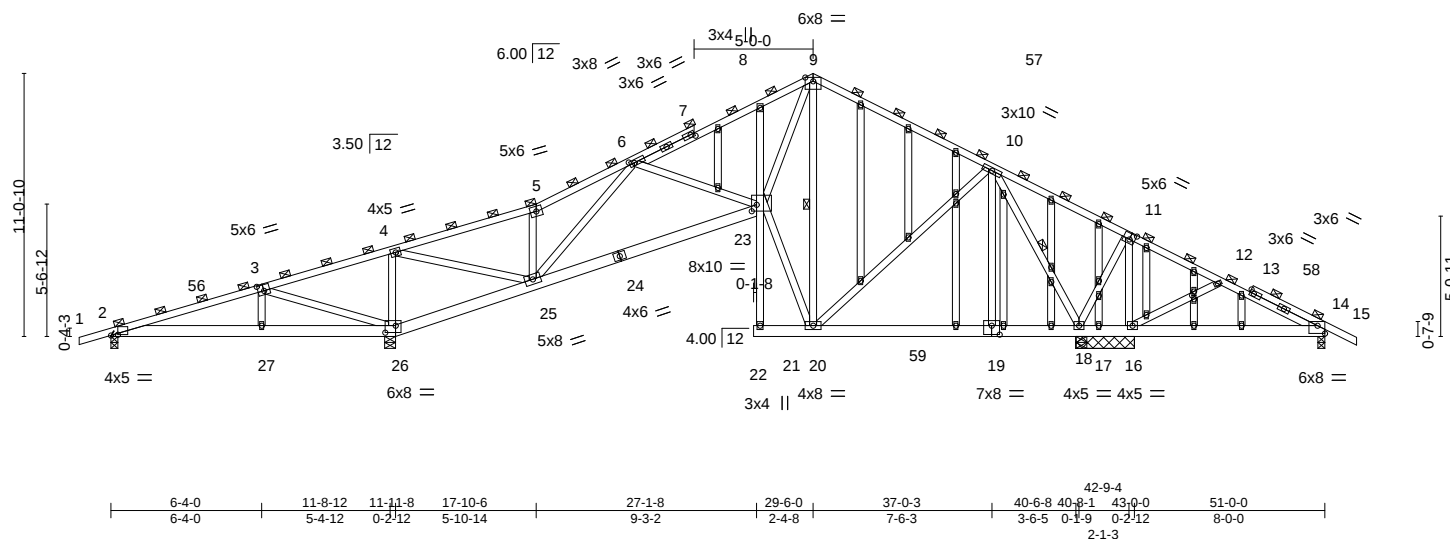
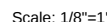
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:49 2025 Page 1

ID:9aQkn3nltK.113aAjaiegDzXp1-8T0MOI AnYhEkUVEErTMY7oidsXc76Wb0a7qPCNzXkSG



FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
2-3=-135/731, 3-4=-351/1462, 4-5=-418/193, 5-6=-427/254, 6-8=-1056/220,
8-9=-1009/294, 9-10=-498/283, 10-11=-150/1198, 11-12=-138/851, 12-14=-109/664

BOT CHORD
2-27=-643/102, 26-27=-648/101, 25-26=-1517/385, 23-25=-196/953, 8-23=-269/166,
17-18=-682/186, 16-17=-682/186, 14-16=-531/127

WEBS
3-27=-161/293, 3-26=-941/492, 4-26=-1240/398, 4-25=-364/1782, 5-25=-326/186,
6-25=-732/154, 20-23=0/1000, 9-23=-186/1539, 9-20=-1065/33, 10-19=0/256,
10-18=-1848/303, 11-18=-571/124, 11-16=-52/468, 12-16=-266/180, 10-20=-101/673

- 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=20ft; Cat. II; Exp B; Encl., GCp1=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-9-3, Zone1 3-9-3 to 29-6-0, Zone2 29-6-0 to 36-8-9, Zone1 36-8-9 to 52-4-0 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" 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" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 2, 552 lb uplift at joint 26, 277 lb uplift at joint 16, 593 lb uplift at joint 17, 150 lb uplift at joint 14 and 421 lb uplift at joint 18.
- 10) 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 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:

March 25.2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772273
4542257	T05	Roof Special	3	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:50 2025 Page 1

ID:9aOkn3plqtKJ13aAiajeqDzXol1-cgZkehBRJ?MbVepQPAtnG?FoZxtRrvjAonQykpzXkSF

1-4-0	6-4-0	11-11-8	17-10-6	24-6-0	27-1-8	30-2-13	32-8-0	35-1-0	41-0-0	42-4-0
1-4-0	6-4-0	5-7-8	5-10-14	6-7-10	2-7-8	3-1-5	2-5-3	2-5-0	5-11-0	1-4-0

Scale = 1:73.5

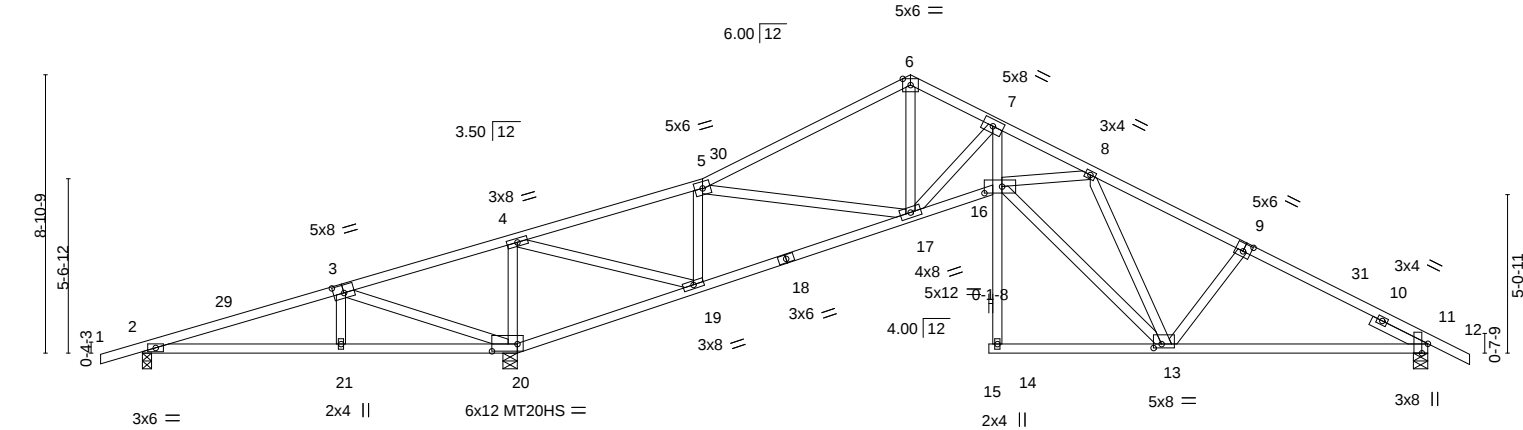


Plate Offsets (X,Y)--	[3:0-4-0,0-3-0], [9:0-3-0,0-3-0], [11:0-3-10,Edge], [13:0-3-1,0-1-8], [16:0-6-12,0-2-8], [20:0-9-12,0-2-12]
-----------------------	---

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 0.82	Vert(LL)	-0.22	15	>999	240	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.43	15	>808	180	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.28	11	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 226 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-10-10 oc bracing. Except:
WEBS 2x4 SP No.3	10-0-0 oc bracing: 14-16
SLIDER Right 2x4 SP No.3 1-11-8	

REACTIONS.	(size) 2=0-3-8, 20=0-5-8, 11=0-5-8	NOTE: EXTREME CARE MUST BE TAKEN DURING TRUSS TRANSPORT, HANDLING AND ERECTION. PROVIDE SUPPORT THAT DOES NOT ALLOW TRUSS TO TWIST. ALL PLATES MUST REMAIN ENTIRELY INTACT AND EMBEDDED.
	Max Horz 2=-150(LC 17)	
	Max Uplift 2=-262(LC 10), 20=-570(LC 12), 11=-297(LC 13)	
	Max Grav 2=115(LC 25), 20=2502(LC 1), 11=994(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-157/1241, 3-4=-377/2130, 5-6=-1190/240, 6-7=-1102/247, 7-8=-2924/451, 8-9=-1264/423, 9-11=-1428/438
BOT CHORD	2-21=-1136/260, 20-21=-1141/259, 19-20=-2190/477, 16-17=-211/2737, 7-16=-284/2418, 11-13=-298/1233
WEBS	3-21=-139/282, 3-20=-911/488, 4-20=-1426/394, 4-19=-378/2028, 5-19=-1062/266, 5-17=-101/1055, 6-17=-110/631, 7-17=-2303/344, 13-16=-335/2156, 8-16=-32/1003, 9-13=-281/186, 8-13=-1254/157

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-9-3, Zone1 2-9-3 to 24-6-0, Zone2 24-6-0 to 30-2-13, Zone1 30-2-13 to 42-4-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 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 262 lb uplift at joint 2, 570 lb uplift at joint 20 and 297 lb uplift at joint 11.

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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 25,2025

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

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772274
4542257	T06	Roof Special	2	1		
Job Reference (optional)						

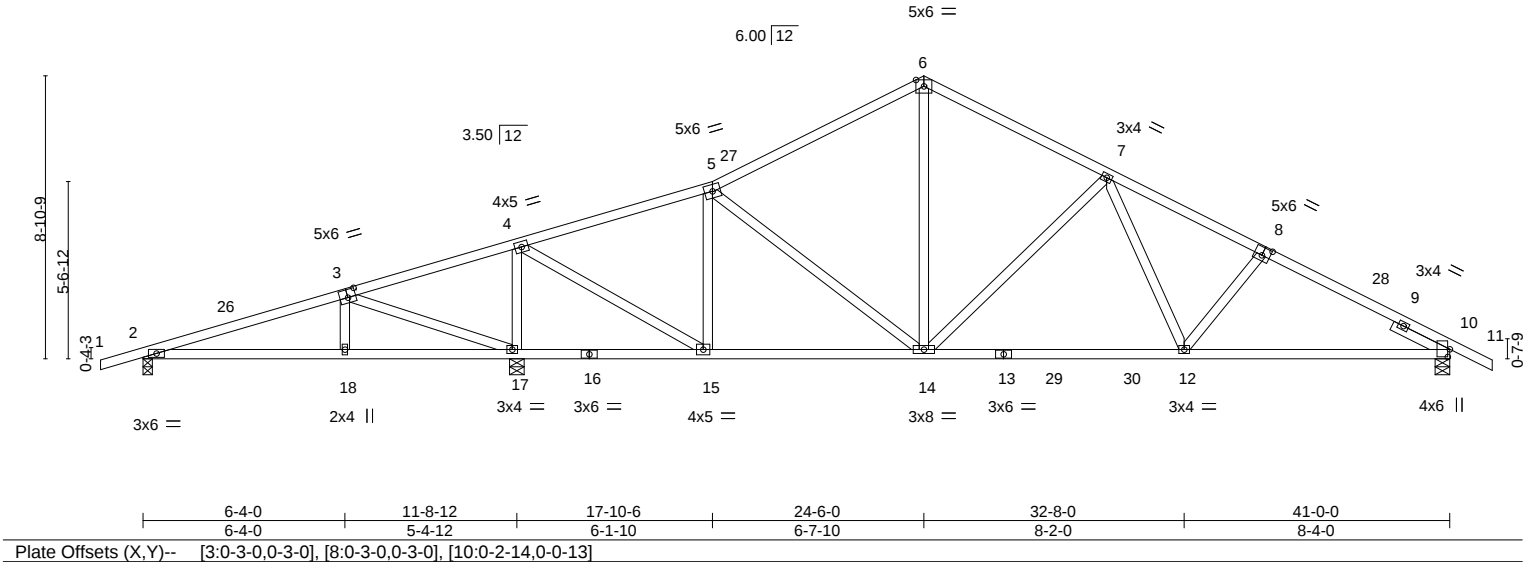
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:51 2025 Page 1

ID:9aOkn3plqtKJ13aAiajeqDzXo1l-4s76r1C34JUS7oOdyuP0CDo?yK DuaORJ1R9WGGzXkSE

1-4-0	6-4-0	11-8-12	17-10-6	24-6-0	30-2-13	35-1-0	41-0-0	42-4-0
1-4-0	6-4-0	5-4-12	6-1-10	6-7-10	5-8-13	4-10-3	5-11-0	1-4-0

Scale = 1:72.3



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 0.65	Vert(LL)	-0.17 12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.30 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 218 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 17=0-5-8, 10=0-5-8
Max Horz 2=-150(LC 17)
Max Uplift 2=-242(LC 8), 17=-507(LC 8), 10=-317(LC 13)
Max Grav 2=366(LC 25), 17=2095(LC 2), 10=1236(LC 2)

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

TOP CHORD 2-3=-253/239, 3-4=-206/822, 4-5=-824/252, 5-6=-1090/336, 6-7=-1083/319,
7-8=-1766/459, 8-10=-1899/474
BOT CHORD 15-17=-754/288, 14-15=-129/783, 12-14=-186/1342, 10-12=-328/1652
WEBS 3-17=-882/474, 4-17=-1601/440, 4-15=-325/1733, 5-15=-683/208, 6-14=-156/604,
7-14=-623/282, 7-12=-95/503

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-9-3, Zone1 2-9-3 to 24-6-0, Zone2 24-6-0 to 30-2-13, Zone1 30-2-13 to 42-4-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 242 lb uplift at joint 2, 507 lb uplift at joint 17 and 317 lb uplift at joint 10.

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:

March 25,2025

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

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Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772277
4542257	T09	Roof Special	2	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:52 2025 Page 1
ID:9aOkn3plqtKJ13aAiajeqDzXol1-Y2hU3NChrrcJlyzpWbwFIQLEpkamJvGSG5v3oizXkSD

-1-4-0	3-2-0	8-5-12	14-8-6	21-4-0	21-10-0
1-4-0	3-2-0	5-3-12	6-2-10	6-7-10	0-6-0

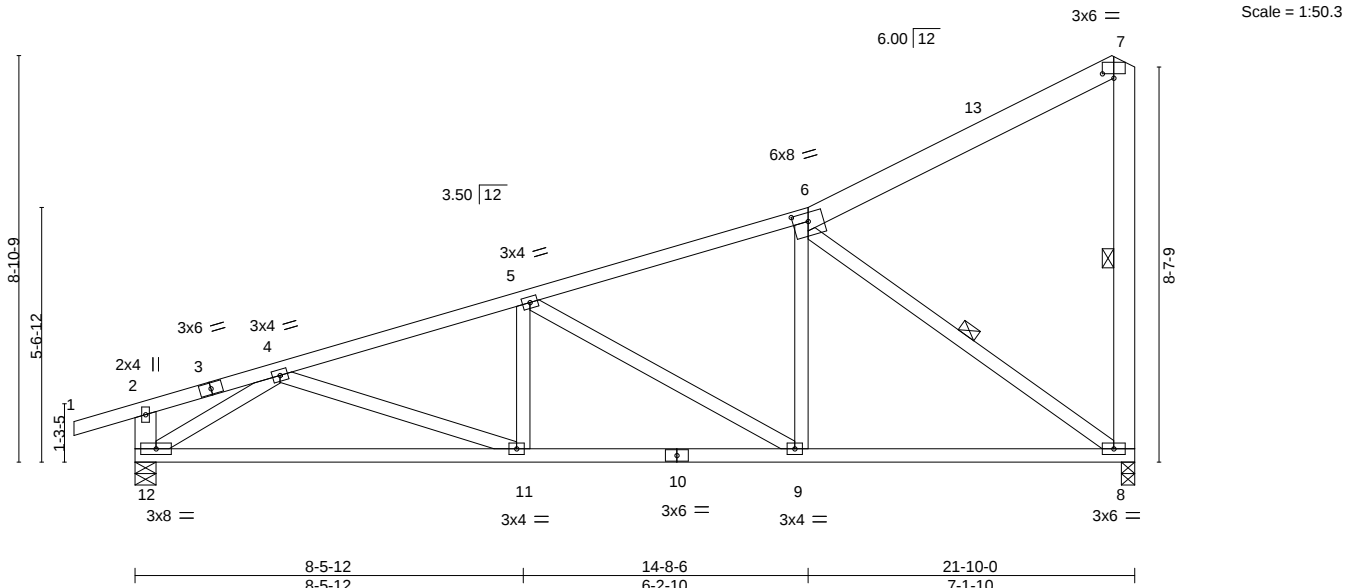


Plate Offsets (X,Y)--	[6:0-4-0,0-2-4], [7:0-3-0,0-1-2]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	-0.13 11-12	>999	240
TCDL 10.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.27 11-12	>955	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.04 8	n/a	n/a
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS				
				Weight:	144 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12,7-8: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-4 oc bracing.
WEBS 1 Row at midpt 6-8, 7-8

REACTIONS.

(size) 8=0-3-8, 12=0-5-8
Max Horz 12=293(LC 12)
Max Uplift 8=-324(LC 12), 12=-261(LC 8)
Max Grav 8=852(LC 1), 12=952(LC 1)

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

TOP CHORD 4-5=-1417/284, 5-6=-890/136
BOT CHORD 11-12=-549/1100, 9-11=-499/1324, 8-9=-284/789
WEBS 5-9=-602/251, 6-9=-85/491, 6-8=-973/350, 4-11=0/256, 4-12=-1234/331

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 21-7-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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 324 lb uplift at joint 8 and 261 lb uplift at joint 12.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 25,2025

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Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772278
4542257	T10	Roof Special	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:53 2025 Page 1
ID:9aOkn3plqtKJ13aAiajeqDzXol1-0FFtGjDJcwKAM6Y?4JRUHetPJ8wK2JjcVledL8zXkSC

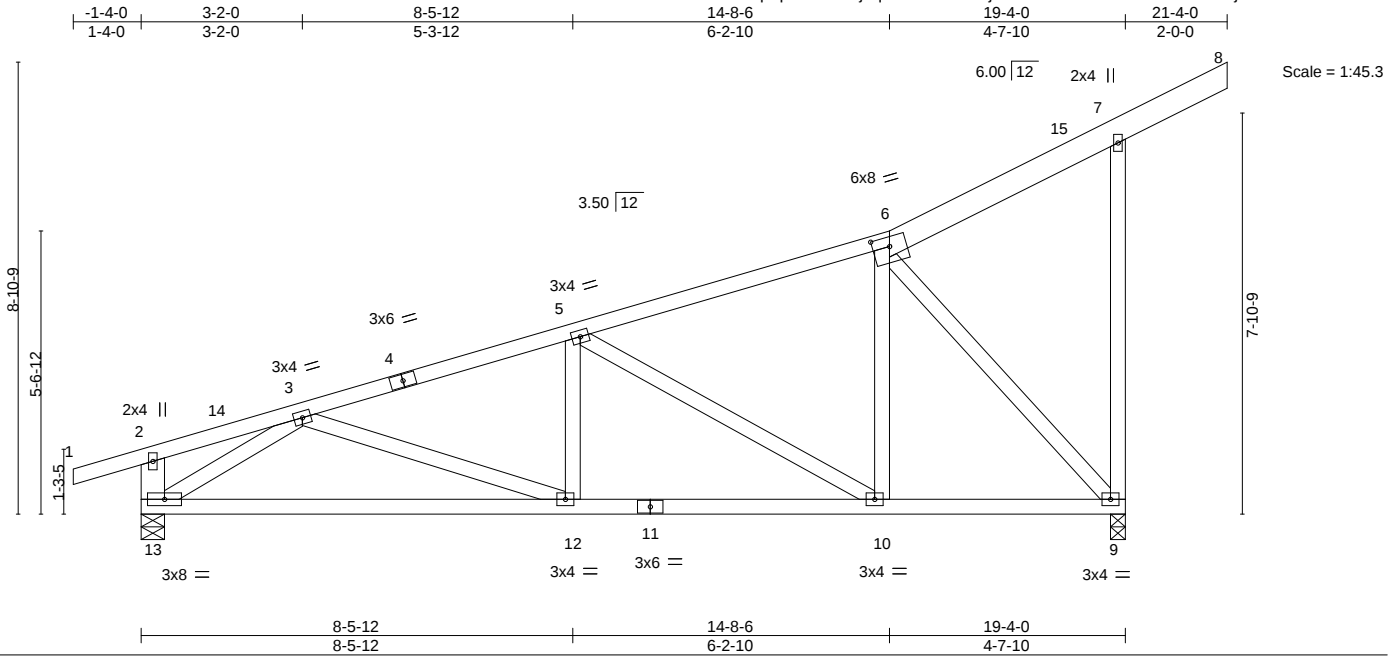


Plate Offsets (X,Y)--		[6:0-4-0,0-2-4]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL		1.25		TC 0.40		Vert(LL)		-0.12 12-13		>999		240		MT20		244/190	
TCDL 10.0		Lumber DOL		1.25		BC 0.61		Vert(CT)		-0.25 12-13		>914		180					
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.67		Horz(CT)		0.03 9		n/a		n/a					
BCDL 10.0		Code FBC2023/TPI2014				Matrix-MS										Weight: 128 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-8: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-13: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.

REACTIONS.

(size) 9=0-3-8, 13=0-5-8
Max Horz 13=282(LC 12)
Max Uplift 9=-354(LC 12), 13=-247(LC 8)
Max Grav 9=891(LC 1), 13=849(LC 1)

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

TOP CHORD 3-5=-1164/244, 5-6=-585/91, 7-9=-272/219
BOT CHORD 12-13=-483/941, 10-12=-404/1082, 9-10=-173/495
WEBS 5-12=0/252, 5-10=-661/262, 6-10=-99/460, 6-9=-761/267, 3-13=-1053/305

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 21-4-0 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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 354 lb uplift at joint 9 and 247 lb uplift at joint 13.

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.

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

March 25,2025

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Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772279
4542257	T10G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:53 2025 Page 1

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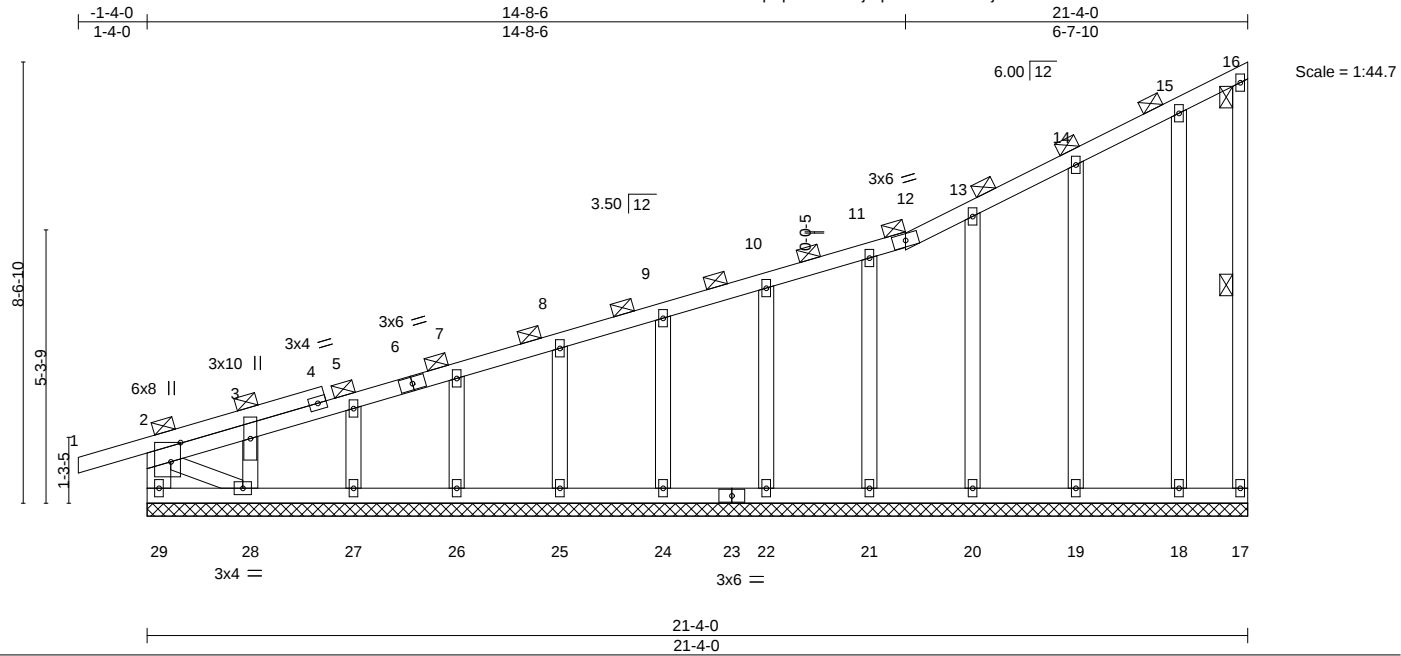


Plate Offsets (X,Y)-- [2:0-4-8,0-2-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.01 1 n/r	120	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00 1 n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00 17 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 145 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 28-29.
2-29: 2x6 SP No.2	WEBS 1 Row at midpt 16-17
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 21-4-0.
(lb) - Max Horz 29=279(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 17, 27, 26, 25, 24, 22, 21, 20, 19, 18 except 28=201(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 29, 17, 28, 27, 26, 25, 24, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/125, 3-5=-365/112, 5-7=-342/105, 7-8=-309/95, 8-9=-276/85
BOT CHORD 28-29=-344/112
WEBS 2-28=-125/384

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; 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 and C-C Zone3 zone; end vertical left 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 requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 27, 26, 25, 24, 22, 21, 20, 19, 18 except (jt=lb) 28=201.
 - 12) 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 25,2025

Job	Truss	Truss Type	Qty	Ply	JFC - WEBB	T36772280
4542257	T11G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Mon Mar 24 11:33:54 2025 Page 1
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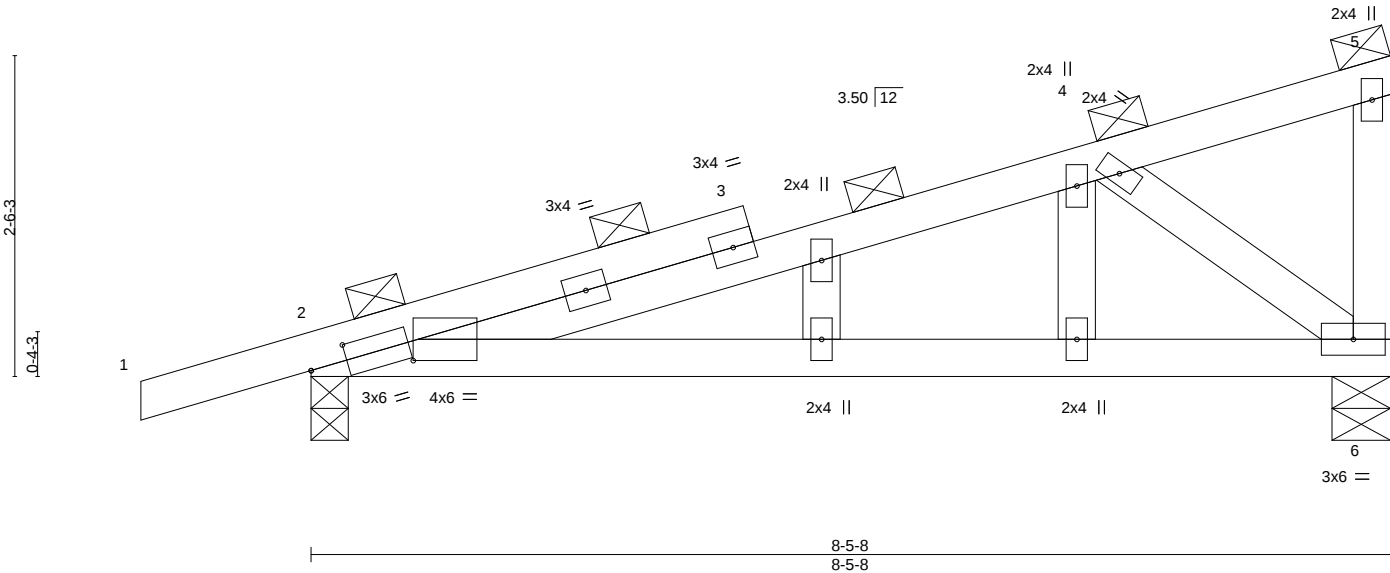


Plate Offsets (X,Y)--		[2:0-3-8,0-1-8], [2:0-9-10,0-0-15]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.57	Vert(LL)	0.13	6-13	>742	240	MT20	244/190	
TCDL	10.0	Lumber DOL 1.25		BC	0.42	Vert(CT)	-0.17	6-13	>582	180			
BCLL	0.0 *	Rep Stress Incr YES		WB	0.18	Horz(CT)	-0.00	6	n/a	n/a			
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 41 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-5-8
Max Horz 2=102(LC 8)
Max Uplift 2=-233(LC 8), 6=-179(LC 8)
Max Grav 2=423(LC 1), 6=319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-406/389
BOT CHORD 2-6=-505/390
WEBS 4-6=-454/593

- 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=20ft; Cat. II; Exp B; 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
 - 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) Gable studs spaced at 2-0-0 oc.
 - 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) except (jt=lb) 2=233, 6=179.
 - 9) 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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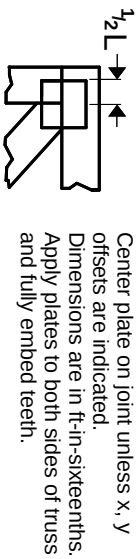
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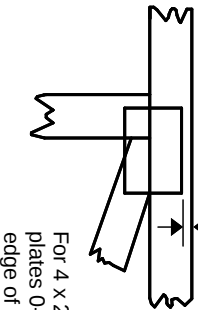
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Symbols

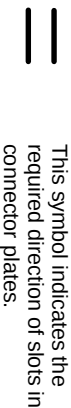
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

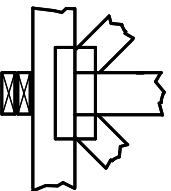
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

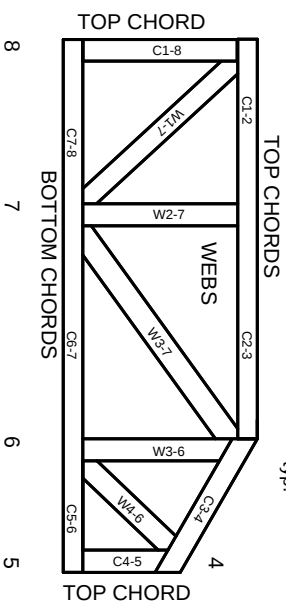
Industry Standards:

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.

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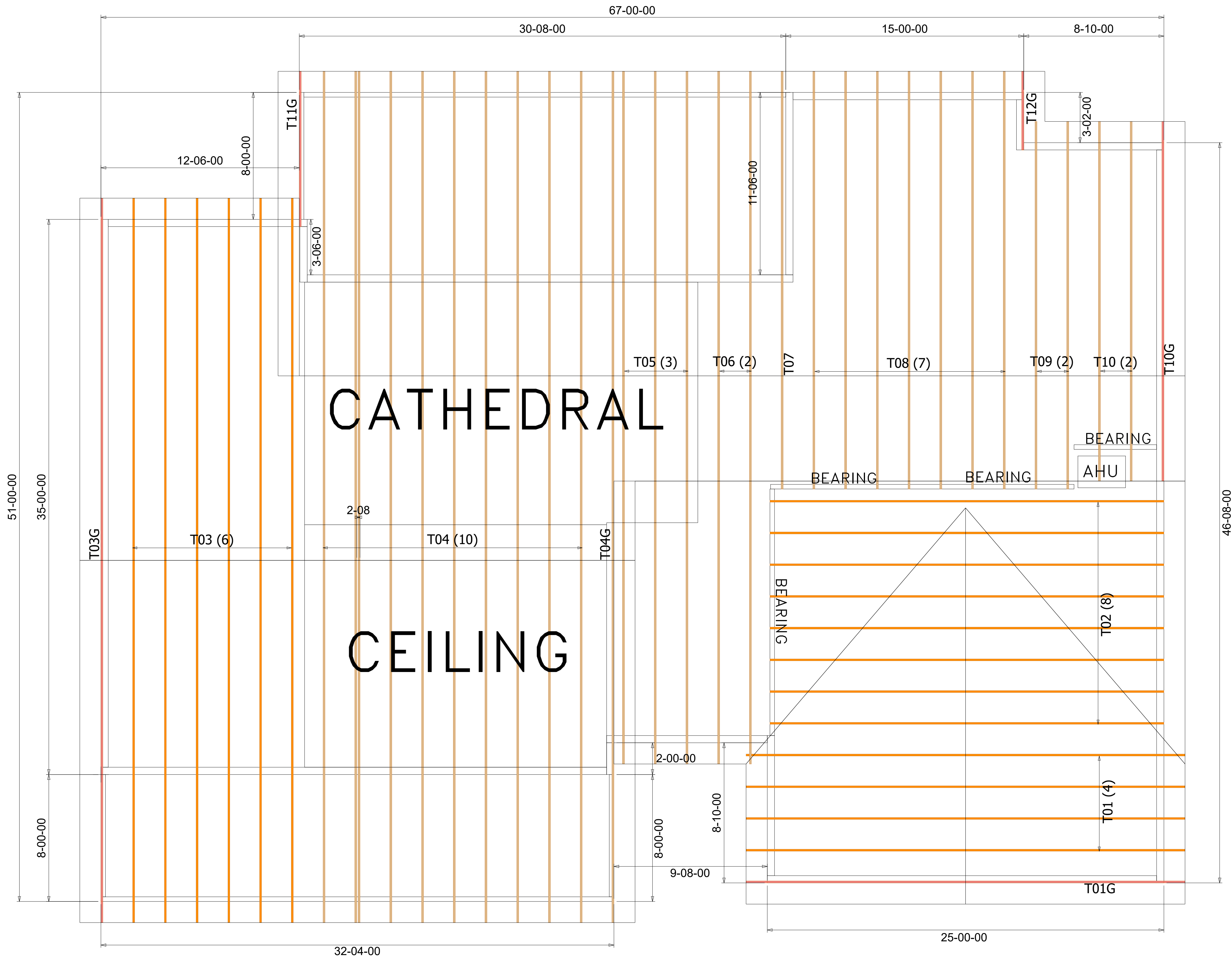
MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

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.

3.5/12-6/12-7/12 PITCH - 16" OH



WARNING
Backcharges Will Not Be Accepted
Regardless of Fault Without Prior
Notification By Customer Within 48
Hours And Investigation By
Builders FirstSource.
NO EXCEPTIONS.

IMPORTANT

This Drawing Must Be Approved And
Returned Before Fabrication Will
Begin. For Your Protection Check All
Dimensions And Conditions Prior To
Approval Of Plan.
SIGNATURE BELOW INDICATES ALL
NOTES AND DIMENSIONS HAVE
BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING: TCCL: 20 FLOOR LOADING: TCCL: 20
TCDL: 10 TCDL: 10
BCLL: 0 BCCL: 0
BCDL: 10 BCDL: 10
DURATION: 1.25 DURATION: 1.00
5 PSF TCCL + 5 PSF BCDL USED TO RESIST UPLIFT
ENCLOSED EXPOSURE CATEGORY B
OCCUPANCY CATEGORY II
WIND LOAD 130 MPH
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 3.5/12 - 6/12 - 7/12

CEILING PITCH: 4/12

TOP CHORD SIZE: 2 X 4

BOTTOM CHORD SIZE: 2 X 4

OVERHANG LENGTH: 16"

END CUT: PLUMB

CANTILEVER: N/A

TRUSS SPACING: 24"

BUILDING CODE: FBC 2023

BEARING HEIGHT SCHEDULE

BUILDER:

**JOHN F CRAWFORD
HOMES**

MODEL:

CUSTOM

ELEV:

GABLE

ADDRESS:

TBD

LOT / BLOCK:

N/A

SUBDIVISION:

WEBB RES.

CITY:

Alachua

DRAWN BY:

Holloway, Kim

JOB # :

4542257

DATE:

3/24/2025

SCALE:

N.T.S.

REVISIONS:



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.