



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

RE: 4276461 - IC CONST. - TEPEDINO ADDITION

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Tepedino Addition Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 136 SW Stoneridge Drive, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: 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: N/A psf

This package includes 15 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	T35237775	CJ01	10/12/24	15	T35237789	T08	10/12/24
2	T35237776	CJ03	10/12/24				
3	T35237777	CJ03A	10/12/24				
4	T35237778	CJ05	10/12/24				
5	T35237779	CJ05A	10/12/24				
6	T35237780	EJ01	10/12/24				
7	T35237781	HJ10	10/12/24				
8	T35237782	T01	10/12/24				
9	T35237783	T02	10/12/24				
10	T35237784	T03	10/12/24				
11	T35237785	T04	10/12/24				
12	T35237786	T05	10/12/24				
13	T35237787	T06	10/12/24				
14	T35237788	T07	10/12/24				

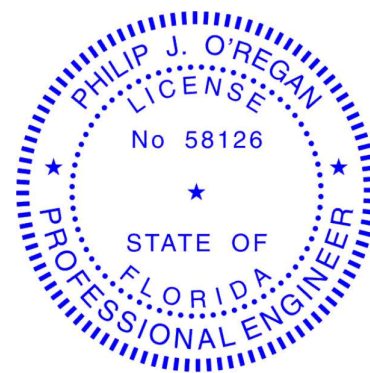
This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.

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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, 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:

October 12,2024

ORegan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237775
4276461	CJ01	Jack-Open	8	1	Job Reference (optional)	

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

8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:18 2024 Page 1

ID:txdd7suobsagDCJTLNBv86yUaOD-t2J9oGm6Qf_6a0k8Ak8Bs0vyQbQztcfVLBgn?lyUaC?



Scale = 1:15.2

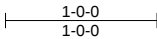
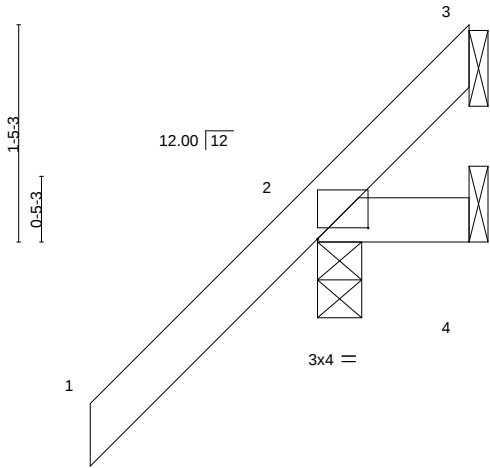


Plate Offsets (X,Y)--	[2:0-4-0,0-0-14]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP					Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=88(LC 12)
Max Uplift 3=-4(LC 13), 2=-88(LC 12), 4=-22(LC 1)
Max Grav 3=11(LC 8), 2=179(LC 1), 4=35(LC 16)

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

NOTES-

- 1) 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 3, 88 lb uplift at joint 2 and 22 lb uplift at joint 4.

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Date:

October 12,2024

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)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION
4276461	CJ03	Jack-Open	7	1	T35237776
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:19 2024 Page 1
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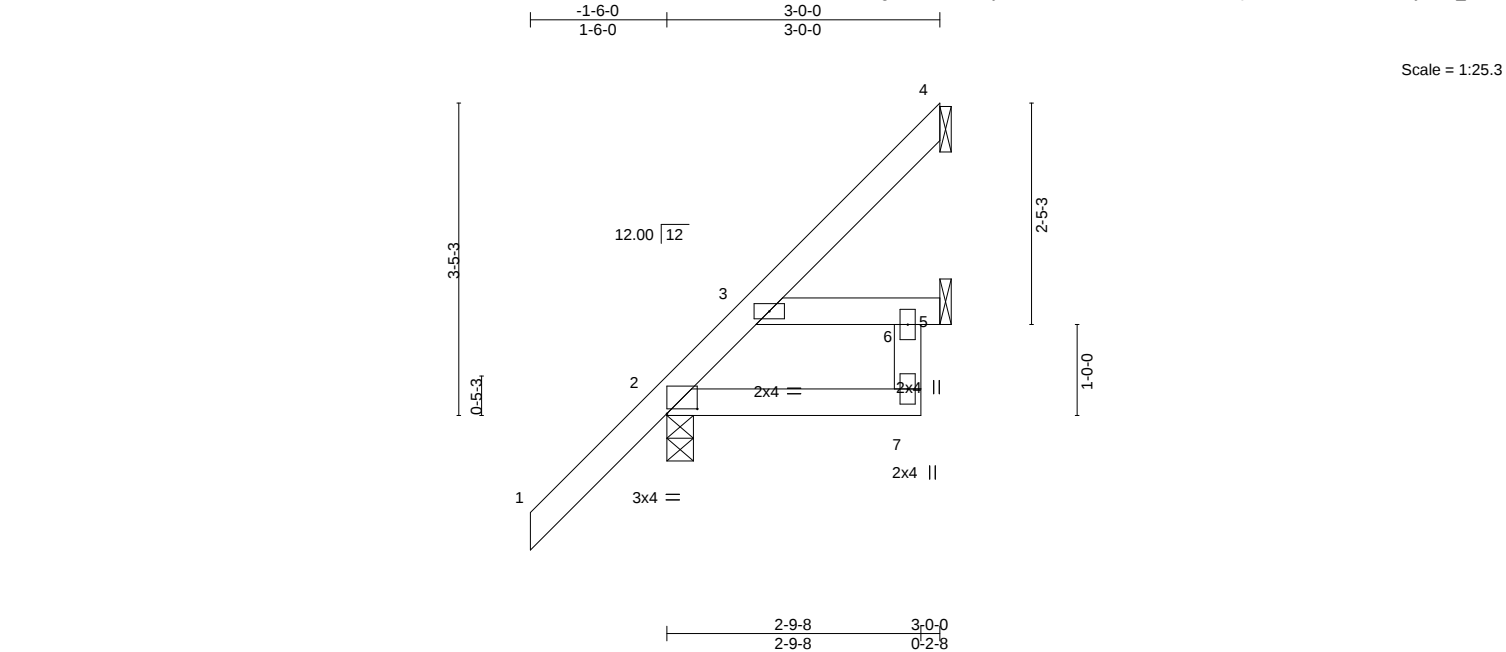


Plate Offsets (X,Y)-- [2:0-4-0,0-0-10]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.00 13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.00 13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR						Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
6-7: 2x4 SP No.3	

REACTIONS.	(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
	Max Horz 2=163(LC 12)
	Max Uplift 4=-52(LC 12), 2=-30(LC 12), 5=-17(LC 12)
	Max Grav 4=51(LC 19), 2=223(LC 1), 5=101(LC 3)

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

- NOTES-**
- 1) 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 -1-6-0 to 1-3-4, Zone1 1-3-4 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 4, 30 lb uplift at joint 2 and 17 lb uplift at joint 5.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237777
4276461	CJ03A	Jack-Open	1	1	Job Reference (optional)	

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

8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:19 2024 Page 1

ID:txdd7suobsagDCJTLNBv86yUaOD-LFtX?cmkBz6zCAJKkRfQODSCH?lBc3vfarPKXByUaC_

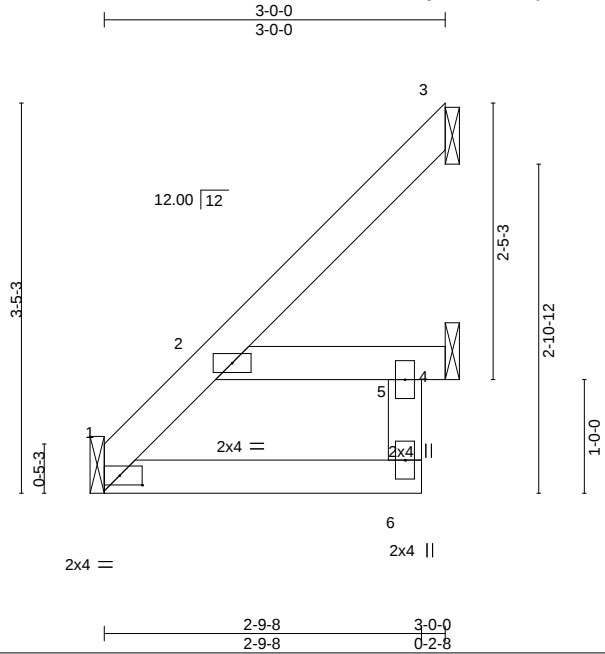


Plate Offsets (X,Y)--		[1:0-2-6,0-1-0]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		I/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC 0.06		Vert(LL)		-0.00		12		>999		240		MT20 244/190	
TCDL	7.0	Lumber DOL		1.25		BC 0.17		Vert(CT)		-0.00		12		>999		180			
BCLL	0.0 *	Rep Stress Incr		YES		WB 0.00		Horz(CT)		-0.00		4		n/a		n/a			
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MR												Weight: 15 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	5-6: 2x4 SP No.3		

REACTIONS. (size) 1=Mechanical, 3=Mechanical, 4=Mechanical
Max Horz 1=113(LC 12)
Max Uplift 3=-51(LC 12), 4=-38(LC 12)
Max Grav 1=121(LC 1), 3=50(LC 19), 4=107(LC 3)

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

- NOTES-**
- 1) 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
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 3 and 38 lb uplift at joint 4.

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on the date indicated here.
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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:

October 12,2024

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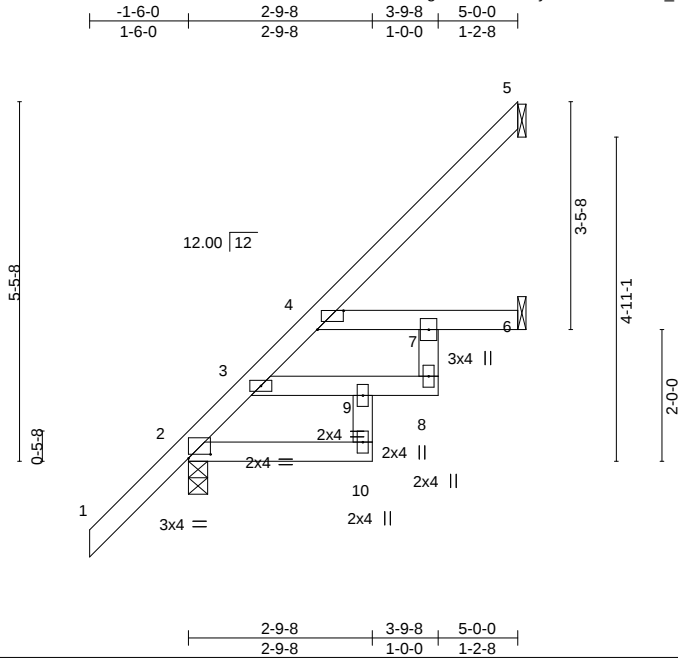
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237778
4276461	CJ05	Jack-Open	7	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.730 s Nov 16 2023 MiTek Industries, Inc. Fri Oct 11 08:52:47 2024 Page 1

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Scale = 1:35.0

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

LOADING (psf)	SPACING-		CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.32	Vert(LL)	0.02	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.02	8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MR						Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
9-10,7-8: 2x4 SP No.3	

REACTIONS. (lb/size) 5=72/Mechanical, 2=291/0-3-8 (min. 0-1-8), 6=118/Mechanical
Max Horz 2=240(LC 12)
Max Uplift 5=-83(LC 12), 2=-5(LC 12), 6=-59(LC 12)
Max Grav 5=86(LC 19), 2=291(LC 1), 6=139(LC 3)

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

NOTES-

- 1) 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 1-2-15 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 5, 5 lb uplift at joint 2 and 59 lb uplift at joint 6.

LOAD CASE(S) Standard

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Date:

October 12,2024

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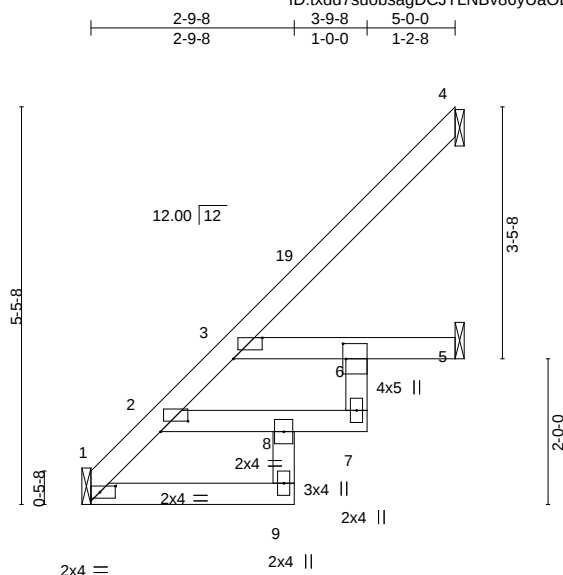
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237779
4276461	CJ05A	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.730 s Nov 16 2023 MiTek Industries, Inc. Fri Oct 11 08:54:13 2024 Page 1

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Scale = 1:31.6

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

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	0.02	6	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.43	Vert(CT)	-0.02	6	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.02	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						Weight: 26 lb	FT = 20%
	Code FBC2023/TPI2014								

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-9,6-7: 2x4 SP No.3

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

REACTIONS. (lb/size) 1=197/Mechanical, 4=73/Mechanical, 5=129/Mechanical
Max Horz 1=191(LC 12)
Max Uplift 4=-84(LC 12), 5=-70(LC 12)
Max Grav 1=197(LC 1), 4=87(LC 19), 5=143(LC 19)

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

- NOTES-**
- 1) 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 3-0-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4 and 70 lb uplift at joint 5.

LOAD CASE(S) Standard

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October 12,2024

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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®
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Chesterfield, MO 63017
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237781
4276461	HJ10	Diagonal Hip Girder	4	1	Job Reference (optional)	

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

8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:21 2024 Page 1

ID:txdd7suobsagDCJTLNBv86yUaOD-Hd?HQlo_iaMhRTSjsshuTeXR4pLd4rwy19uRb4yUaBy

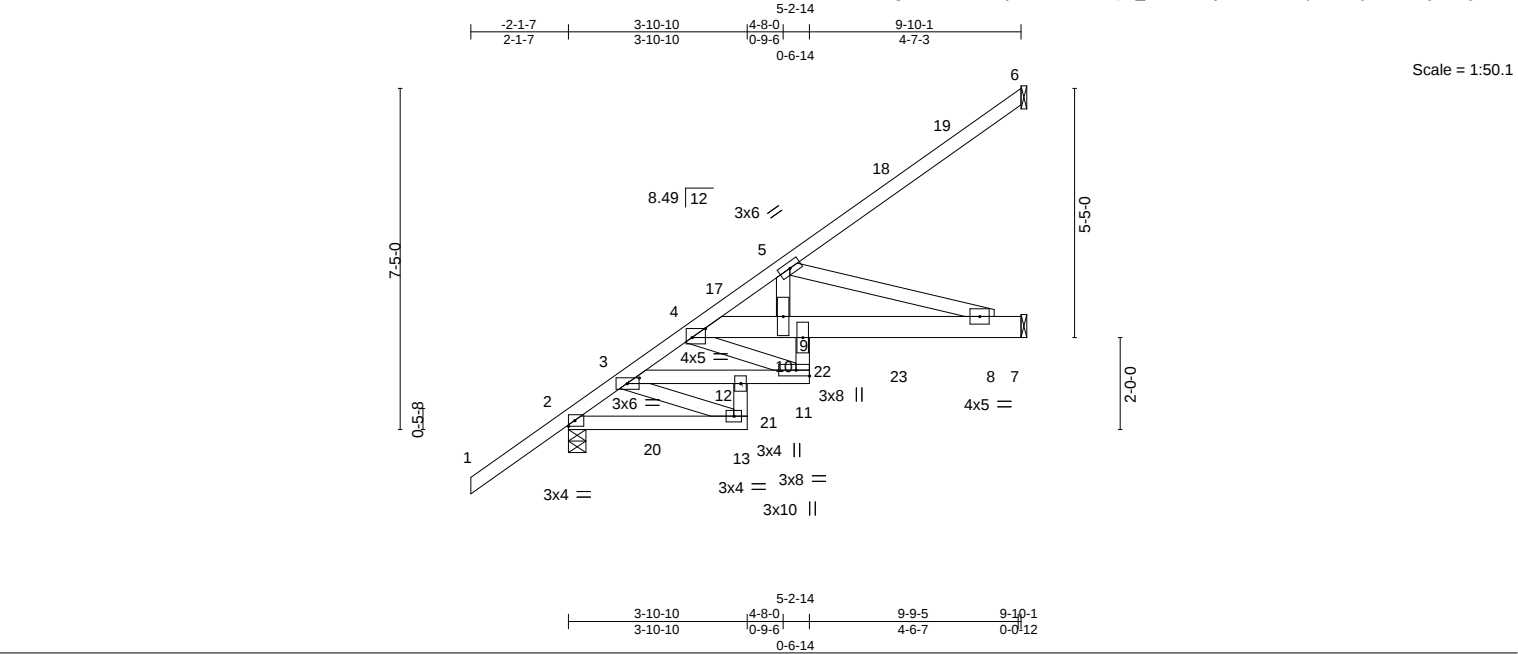


Plate Offsets (X,Y)--		[3:0-3:3,0-1-8], [4:0-3:8,0-2-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42
TCDL 7.0	Lumber DOL	1.25	BC 0.56
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.54
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.07 8-9 >999 240
			Vert(CT) -0.09 8-9 >999 180
			Horz(CT) 0.05 7 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 68 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.
12-13,9-11: 2x4 SP No.3, 4-7: 2x6 SP No.2	
WEBS 2x4 SP No.3	

REACTIONS.	(size) 6=Mechanical, 2=0-4-9, 7=Mechanical
	Max Horz 2=306(LC 8)
	Max Uplift 6=-114(LC 8), 2=-166(LC 4), 7=-252(LC 8)
	Max Grav 6=137(LC 35), 2=579(LC 1), 7=450(LC 35)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-15=-705/292, 3-4=-765/309, 4-5=-1331/667
BOT CHORD	2-13=-236/421, 3-12=-331/483, 11-12=-390/608, 9-11=-262/486, 4-10=-692/1049, 9-10=-692/1049, 8-9=-741/1140
WEBS	3-13=-307/191, 4-11=-570/375, 5-8=-1189/773, 5-10=-378/793

- NOTES-**
- 1) 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; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 6, 166 lb uplift at joint 2 and 252 lb uplift at joint 7.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 60 lb up at 1-6-1, 74 lb down and 60 lb up at 1-6-1, 76 lb down and 79 lb up at 4-4-0, 76 lb down and 79 lb up at 4-4-0, and 100 lb down and 114 lb up at 7-1-15, and 100 lb down and 114 lb up at 7-1-15 on top chord, and 35 lb down and 49 lb up at 1-2-11, 35 lb down and 49 lb up at 1-2-11, 73 lb down and 34 lb up at 4-4-0, 73 lb down and 34 lb up at 4-4-0, and 108 lb down and 86 lb up at 7-1-15, and 108 lb down and 86 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 13-14=-20, 11-12=-20, 7-9=-20

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:

October 12,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237781
4276461	HJ10	Diagonal Hip Girder	4	1	Job Reference (optional)	

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

8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:21 2024 Page 2
ID:txdd7suobsagDCJTLNBv86yUaOD-Hd?HQlo_iaMhRTSjsshuTeXR4pLd4rwy19uRb4yUaBy

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 18=-7(F=-3, B=-3) 21=-74(F=-37, B=-37) 23=-179(F=-89, B=-89)

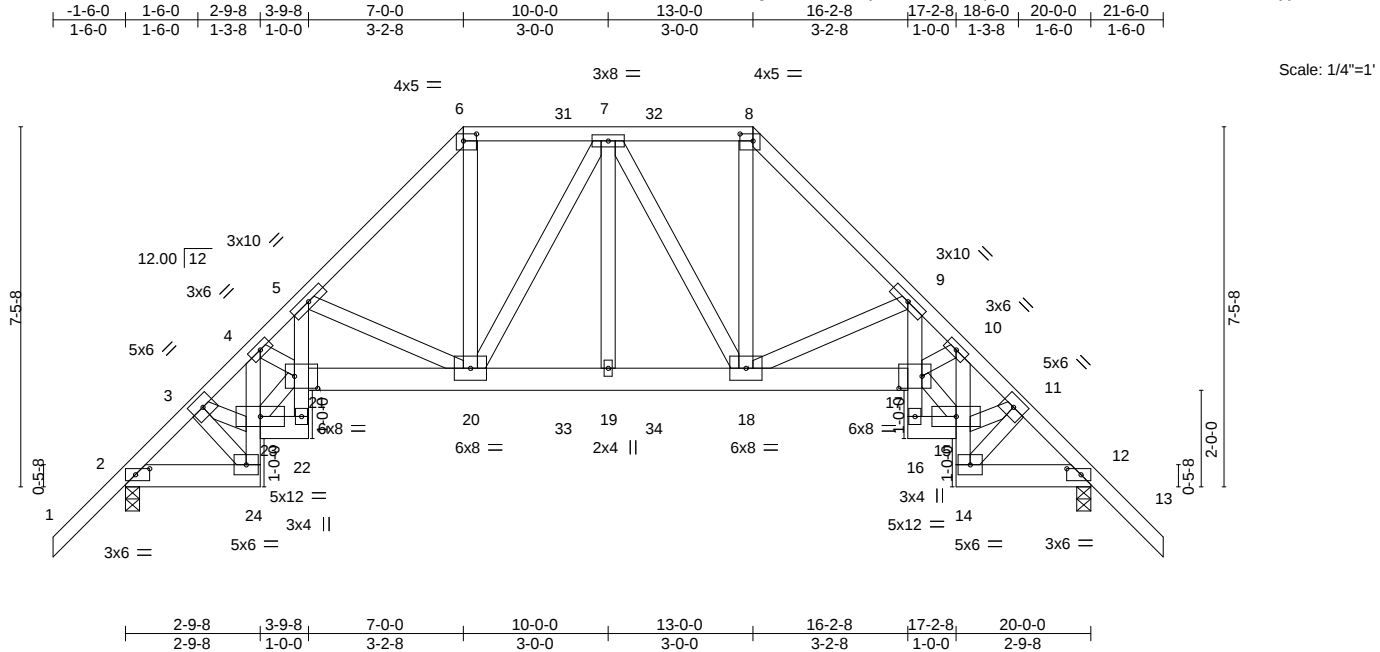
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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.sbccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237782
4276461	T01	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:23 2024 Page 1
ID:txdd7suobsagDCJTLNBv86yUaOD-D071rzpEECcPhnc5zHkMZ3dl7cxnYf7FUTNYfyyUaBw



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 0.52	Vert(LL)	0.17	19	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.23	19	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.95	Horz(CT)	0.28	12	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 167 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-10 oc purlins.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 5-6-0 oc bracing.
4-24,5-22,9-16,10-14: 2x4 SP No.2	
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 12=0-3-8
	Max Horz 2=-212(LC 27)
	Max Uplift 2=-823(LC 8), 12=-823(LC 9)
	Max Grav 2=1566(LC 1), 12=1566(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1993/1067, 3-4=-2898/1568, 4-5=-4451/2399, 5-6=-2509/1452, 6-7=-1797/1102, 7-8=-1748/1053, 8-9=-2479/1418, 9-10=-4262/2219, 10-11=-2815/1479, 11-12=-1993/1064
BOT CHORD	2-24=-772/1468, 23-24=-688/1343, 4-23=-1696/906, 22-23=-199/368, 21-22=-199/392, 5-21=-968/1939, 20-21=-1765/3358, 19-20=-1068/1989, 18-19=-1068/1989, 17-18=-1523/3122, 16-17=-173/365, 9-17=-831/1799, 15-16=-173/340, 14-15=-587/1235, 10-15=-1587/784, 12-14=-660/1348
WEBS	3-24=-1677/890, 3-23=-996/1895, 21-23=-1418/2721, 4-21=-693/1300, 5-20=-1695/936, 6-20=-907/1577, 7-20=-293/244, 7-19=-202/303, 7-18=-293/237, 8-18=-916/1578, 9-18=-1535/792, 15-17=-1214/2531, 10-17=-597/1220, 11-15=-854/1755, 11-14=-1530/754

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; Lumber DOL=1.60 plate grip DOL=1.60	
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
4) Provide adequate drainage to prevent water ponding.	
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.	
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 823 lb uplift at joint 2 and 823 lb uplift at joint 12.	
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 43 lb up at 7-0-0, 62 lb down and 40 lb up at 9-0-12, and 62 lb down and 40 lb up at 10-11-4, and 62 lb down and 43 lb up at 13-0-0 on top chord, and 603 lb down and 449 lb up at 7-0-0, 203 lb down and 169 lb up at 9-0-12, and 203 lb down and 169 lb up at 10-11-4, and 603 lb down and 449 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.	

On the G-Page, ASCE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237782
4276461	T01	Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 6-8=-54, 8-13=-54, 24-25=-20, 22-23=-20, 17-21=-20, 15-16=-20, 14-28=-20
Concentrated Loads (lb)
Vert: 20=-558(F) 18=-558(F) 33=-187(F) 34=-187(F)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237783
4276461	T02	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:23 2024 Page 1

ID:txdd7suobsagDCJTLNBv86yUaOD-D071rzpEECcPhnc5zHkMZ3dpEcwvYkHFUTNYfyyUaBw

-1-6-0
1-6-0

2-9-8
2-9-8

3-9-8
1-0-0

9-0-0
5-2-8

11-0-0
2-0-0

16-2-8
5-2-8

17-2-8
1-0-0

20-0-0
2-9-8

21-6-0
1-6-0

4x8 = 4x5 =

5 27 6

12.00 12

3x8 // 29

3x6 // 4

3 28

2 1

0-5-8

3x6 = 4x5 || 2x4 ||

20 6x8 =

18 18

4x12 =

16 15

3x4 = 3x8 =

4x12 =

30 7

3x8 // 3x6 //

8 31

13 12

5x8 = 11

2x4 || 3x6 ||

9 10

0-5-8 2-0-0

Scale = 1:59.9

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

BRACING-
TOP CHORD
BOT CHORD
Structural wood sheathing directly applied or 4-4-13 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 19-20,11-12
8-10-0 oc bracing: 16-17.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-261(LC 10)
Max Uplift 2=-204(LC 12), 9=-204(LC 13)
Max Grav 2=821(LC 1), 9=821(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-958/201, 3-4=-1685/452, 4-5=-839/216, 5-6=-519/214, 6-7=-841/241, 7-8=-1683/306, 8-9=-958/203
BOT CHORD 2-20=-190/674, 3-19=-955/256, 17-18=-93/324, 4-17=-132/738, 16-17=-451/1490, 15-16=-87/567, 14-15=-185/1324, 13-14=-37/289, 7-14=-29/655, 8-12=-849/100, 9-11=-74/596
WEBS 3-17=-207/673, 17-19=-243/1045, 4-16=-976/462, 5-16=-115/361, 6-15=-129/377, 7-15=-851/301, 8-14=-88/602, 12-14=-82/926

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 21-6-0 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 2 and 204 lb uplift at joint 9.

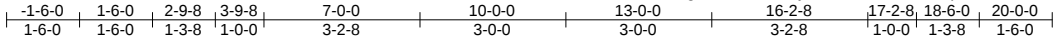
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237784
4276461	T03	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:25 2024 Page 1
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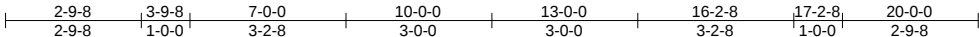
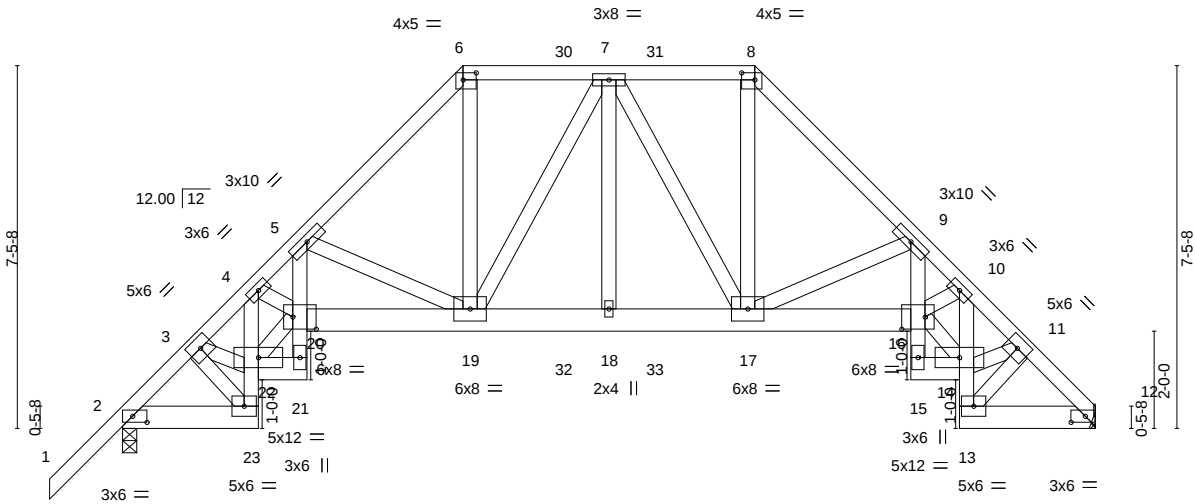


Plate Offsets (X,Y)--		[2:0-3-9,0-1-8], [6:0-3-4,0-1-12], [8:0-3-4,0-1-12], [12:0-3-9,0-1-8], [16:0-5-12,0-3-0], [20:0-5-12,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.18	18	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.23	18	>999	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.28	12	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 164 lb FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 5-5-5 oc bracing.
4-23,5-21,9-15,10-13: 2x4 SP No.2	
WEBS 2x4 SP No.3	

REACTIONS. (size) 12=Mechanical, 2=0-3-8
Max Horz 2=199(LC 26)
Max Uplift 12=-783(LC 9), 2=-824(LC 8)
Max Grav 12=1482(LC 1), 2=1569(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1998/1070, 3-4=-2888/1587, 4-5=-4421/2447, 5-6=-2501/1468, 6-7=-1791/1114,
7-8=-1745/1073, 8-9=-2473/1437, 9-10=-4269/2281, 10-11=-2856/1547,
11-12=-2026/1099
BOT CHORD 2-23=-797/1451, 22-23=-711/1327, 4-22=-1675/925, 21-22=-205/364, 20-21=-205/388,
5-20=-995/1917, 19-20=-1802/3318, 18-19=-1090/1937, 17-18=-1090/1937,
16-17=-1593/3098, 15-16=-184/368, 9-16=-877/1805, 14-15=-181/341, 13-14=-643/1258,
10-14=-1565/812, 12-13=-713/1367
WEBS 3-23=-1657/920, 3-22=-1018/1872, 20-22=-1448/2688, 4-20=-708/1284, 5-19=-1677/962,
6-19=-918/1571, 7-19=-297/244, 7-18=-200/302, 7-17=-292/235, 8-17=-929/1574,
9-17=-1571/869, 14-16=-1276/2518, 10-16=-621/1205, 11-14=-893/1743,
11-13=-1550/814

- 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; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 783 lb uplift at joint 12 and 824 lb uplift at joint 2.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 43 lb up at 7-0-0, 62 lb down and 40 lb up at 9-0-12, and 62 lb down and 40 lb up at 10-11-4, and 62 lb down and 43 lb up at 13-0-0 on top chord, and 603 lb down and 449 lb up at 7-0-0, 203 lb down and 169 lb up at 9-0-12, and 203 lb down and 169 lb up at 10-11-4, and 603 lb down and 449 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of the user.

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
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2024

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237784
4276461	T03	Hip Girder	1	1	Job Reference (optional)	

NOTES-
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 6-8=-54, 8-12=-54, 23-27=-20, 21-22=-20, 16-20=-20, 14-15=-20, 13-24=-20
Concentrated Loads (lb)
Vert: 19=-558(B) 17=-558(B) 32=-187(B) 33=-187(B)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237785
4276461	T04	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:26 2024 Page 1

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-1-6-0
1-6-0

2-9-8
2-9-8

3-9-8
1-0-0

9-0-0
5-2-8

11-0-0
2-0-0

16-2-8
5-2-8

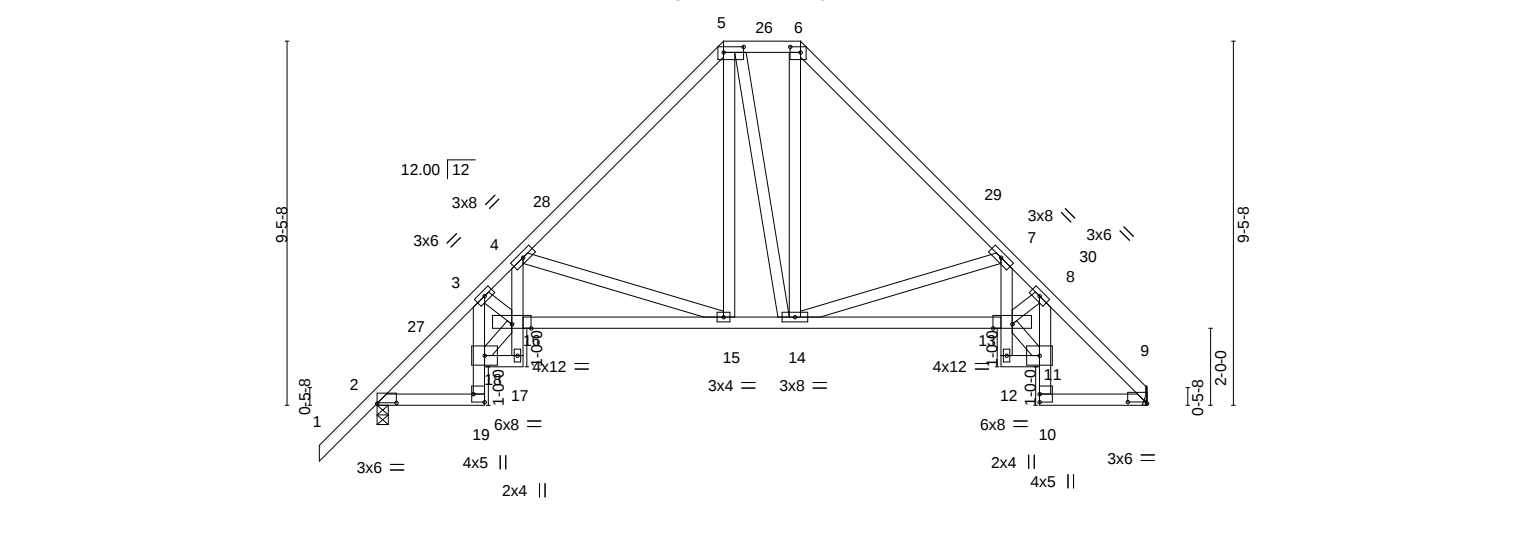
17-2-8
1-0-0

20-0-0
2-9-8

4x8 =4x5 =

5266

Scale = 1:59.9



										2-9-8		3-9-8		9-0-0		11-0-0		16-2-8		17-2-8		20-0-0			
										2-9-8		1-0-0		5-2-8		2-0-0		5-2-8		1-0-0		2-9-8			
Plate Offsets (X,Y)--										[2:0-6-0,0-0-4], [5:0-6-4,0-1-12], [6:0-3-4,0-1-12], [9:0-6-0,0-0-7], [19:Edge,0-3-8]															
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 0.32		Vert(LL)		-0.08 15-16		>999		240		MT20		244/190							
TCDL	7.0	Lumber DOL		1.25		BC 0.99		Vert(CT)		-0.18 15-16		>999		180											
BCLL	0.0 *	Rep Stress Incr		YES		WB 0.61		Horz(CT)		0.24 9		n/a		n/a											
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS										Weight: 143 lb		FT = 20%							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	2-2-0 oc bracing: 18-19,10-11
	8-4-1 oc bracing: 15-16.
REACTIONS.	
(size) 9=Mechanical, 2=0-3-8	
Max Horz 2=248(LC 9)	
Max Uplift 9=-164(LC 13), 2=-205(LC 12)	
Max Grav 9=737(LC 1), 2=824(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-962/205, 3-4=-1693/493, 4-5=-844/227, 5-6=-524/223, 6-7=-847/253, 7-8=-1726/361, 8-9=-986/217
BOT CHORD	2-19=-216/657, 3-18=-929/294, 16-17=-105/316, 4-16=-159/720, 15-16=-507/1453, 14-15=-107/545, 13-14=-249/1352, 12-13=-52/299, 7-13=-69/692, 8-11=-867/144, 9-10=-110/621
WEBS	3-16=-232/656, 16-18=-284/1017, 4-15=-961/486, 5-15=-121/356, 6-14=-137/373, 7-14=-876/370, 8-13=-111/599, 11-13=-136/960

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 20-0-0 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) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 9 and 205 lb uplift at joint 2.

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
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237786
4276461	T05	Roof Special	1	1	Job Reference (optional)	

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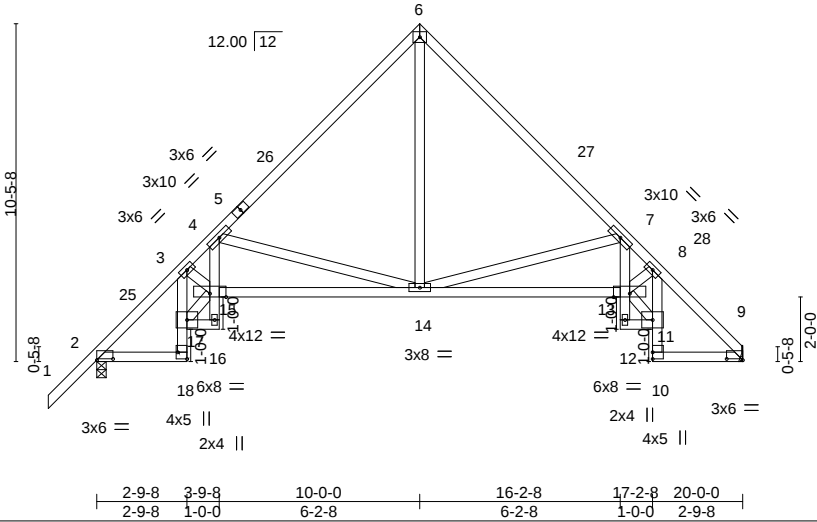
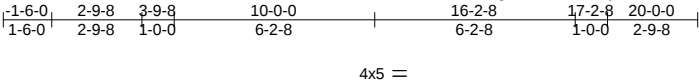


Plate Offsets (X,Y)--	[2:0-6-0,0-0-8], [9:0-6-0,0-0-7], [18:Edge,0-3-8]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL)	-0.09 13-14	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL 1.25	BC 0.98	Vert(CT)	-0.20 13-14	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT)	0.25 9	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 127 lb	FT = 20%	

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-3-10 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3		2-2-0 oc bracing: 17-18,10-11
		7-10-5 oc bracing: 14-15.
REACTIONS.	(size) 9=Mechanical, 2=0-3-8	
	Max Horz 2=272(LC 9)	
	Max Uplift 9=-157(LC 12), 2=-198(LC 12)	
	Max Grav 9=737(LC 1), 2=824(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-962/205, 3-4=-1699/487, 4-6=-805/206, 6-7=-805/262, 7-8=-1722/380, 8-9=-985/241
BOT CHORD	2-18=-223/686, 3-17=-961/290, 15-16=-110/332, 4-15=-128/716, 14-15=-569/1565, 13-14=-276/1385, 12-13=-56/299, 7-13=-67/671, 8-11=-859/150, 9-10=-116/620
WEBS	3-15=-281/727, 15-17=-276/1047, 4-14=-1073/569, 6-14=-178/636, 7-14=-941/438, 8-13=-128/629, 11-13=-142/950

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 20-0-0 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 9 and 198 lb uplift at joint 2.

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:

October 12,2024

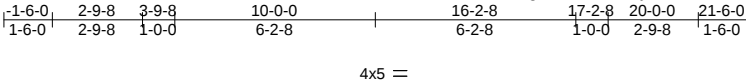
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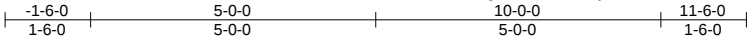
Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237787
4276461	T06	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Oct 11 06:01:27 2024 Page 1
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION	T35237788
4276461	T07	Common	2	1	Job Reference (optional)	

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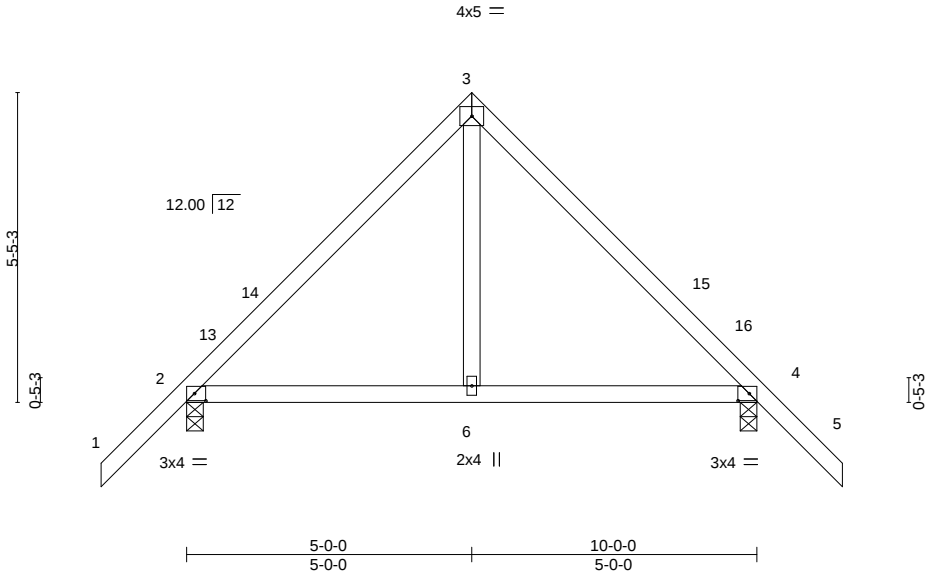


Plate Offsets (X,Y)--		[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.03 6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03 6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00 4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 50 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=-161(LC 10)
Max Uplift 2=-119(LC 12), 4=-119(LC 13)
Max Grav 2=451(LC 1), 4=451(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-371/156, 3-4=-371/156

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-0-0, Zone2 5-0-0 to 9-2-15, Zone1 9-2-15 to 11-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 2 and 119 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - TEPEDINO ADDITION
4276461	T08	Common Girder	1	1	T35237789
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

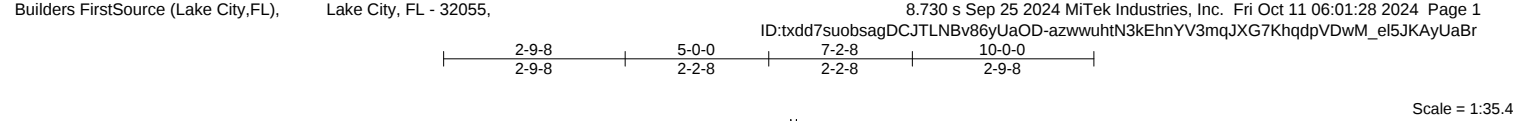


Plate Offsets (X,Y)--										[1:0-6-1,0-0-4], [5:0-6-1,0-0-4], [6:0-5-8,0-1-8], [7:0-5-0,0-5-8], [8:0-5-8,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL 20.0		Plate Grip DOL 1.25		TC 0.20		Vert(LL)		-0.03 7		>999		240		MT20		244/190			
TCDL 7.0		Lumber DOL 1.25		BC 0.22		Vert(CT)		-0.06 7		>999		180							
BCLL 0.0 *		Rep Stress Incr NO		WB 0.88		Horz(CT)		0.01 5		n/a		n/a							
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS										Weight: 75 lb		FT = 20%			

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-2 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, 5=0-3-8
Max Horz 1=124(LC 28)
Max Uplift 1=-731(LC 8), 5=-497(LC 9)
Max Grav 1=2336(LC 1), 5=1580(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2438/858, 2-3=-1771/733, 3-4=-1770/734, 4-5=-2013/709
BOT CHORD 1-8=-611/1700, 7-8=-611/1700, 6-7=-457/1386, 5-6=-457/1386
WEBS 3-7=-961/2315, 2-7=-735/280, 2-8=-241/930

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 731 lb uplift at joint 1 and 497 lb uplift at joint 5.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 718 lb down and 176 lb up at 0-11-4, 717 lb down and 184 lb up at 2-11-4, 1462 lb down and 803 lb up at 4-11-4, and 177 lb down at 6-10-3, and 101 lb down at 8-10-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-1462(B) 8=-717(B) 13=-718(B) 14=-177(B) 15=-101(B)

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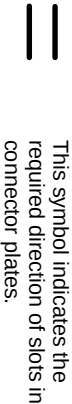
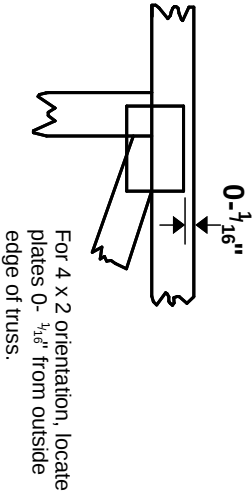
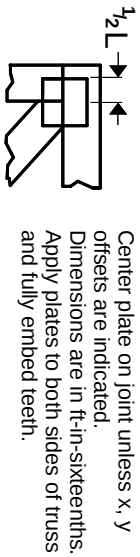
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Chesterfield, MO 63017
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

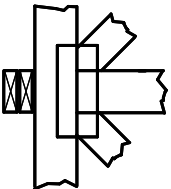
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

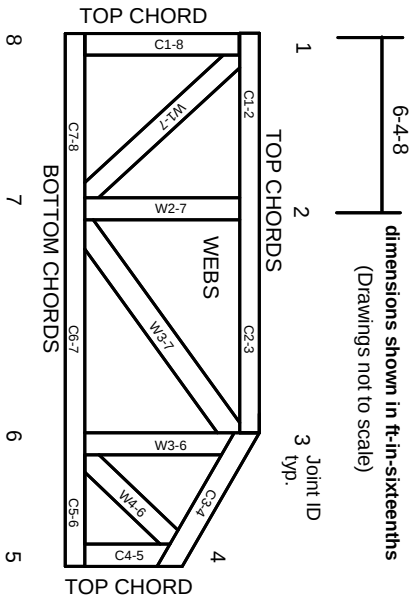
BEARING



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/TPI 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



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/TPI 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.