MiTek®

RE: 3708825
LOT 24 RP

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer: RON DAVID PLASTERING
Lot/Block: 24
Address: TBD
City: Columbia Cty

Project Name: 3708825
Model: Custom
Subdivision: Rose Pointe
State: FL

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

Design Code: FBC2020/TPI2014
Wind Code: ASCE 7-16
Roof Load: 37.0 psf

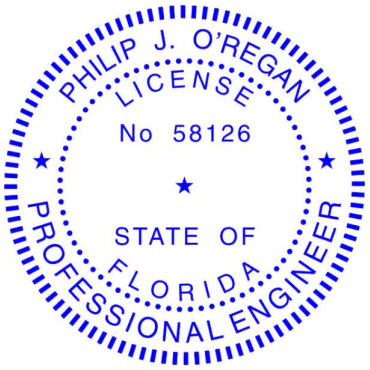
Design Program: MiTek 20/20 8.6
Wind Speed: 130 mph
Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T31824031	CJ01	10/12/2023
2	T31824032	CJ03	10/12/2023
3	T31824033	CJ05	10/12/2023
4	T31824034	EJ01	10/12/2023
5	T31824035	EJ02	10/12/2023
6	T31824036	HJ08	10/12/2023
7	T31824037	HJ10	10/12/2023
8	T31824038	T01	10/12/2023
9	T31824039	T01G	10/12/2023
10	T31824040	T02	10/12/2023
11	T31824041	T03	10/12/2023
12	T31824042	T04	10/12/2023
13	T31824043	T05	10/12/2023
14	T31824044	T06	10/12/2023
15	T31824045	T07	10/12/2023
16	T31824046	T08	10/12/2023
17	T31824047	T08G	10/12/2023
18	T31824048	T09	10/12/2023

This item has been electronically signed and sealed by ORegan, Philip using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies
The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc under my direct supervision
based on the parameters provided by Builders FirstSource-Lake City, FL.
Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.
Florida COA: 6634

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



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: October 12, 2023

ORegan, Philip

Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	CJ01	Jack-Open	6	1	T31824031
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:02 2023 Page 1
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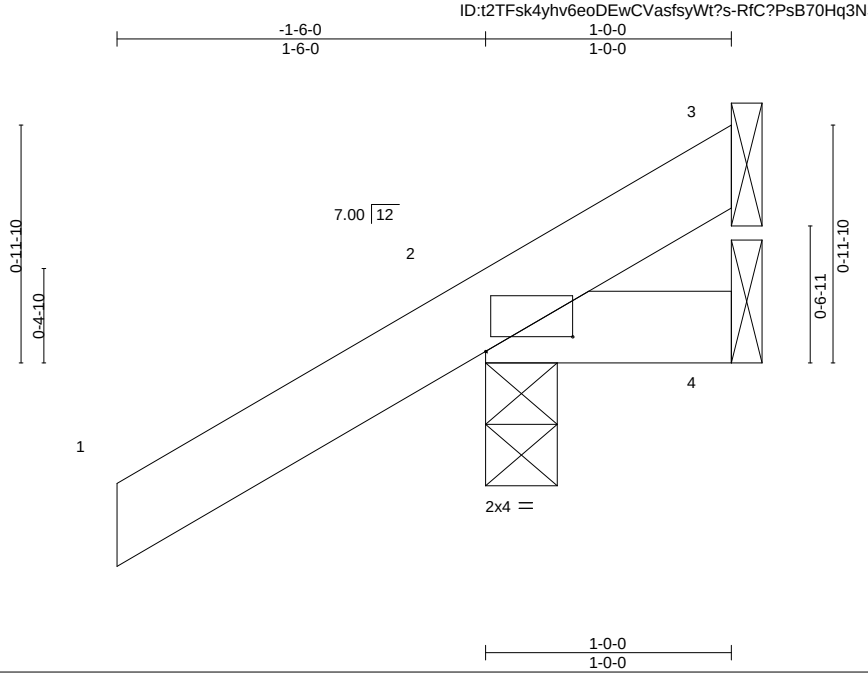

Plate Offsets (X,Y)-- [2:0-4-4,0-0-11]

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	0.16	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 3=-6(LC 1), 2=-68(LC 12), 4=-22(LC 19)
Max Grav 3=7(LC 16), 2=179(LC 1), 4=20(LC 16)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 68 lb uplift at joint 2 and 22 lb uplift at joint 4.

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

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Date:

October 12,2023

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	CJ03	Jack-Open	6	1	T31824032
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:03 2023 Page 1
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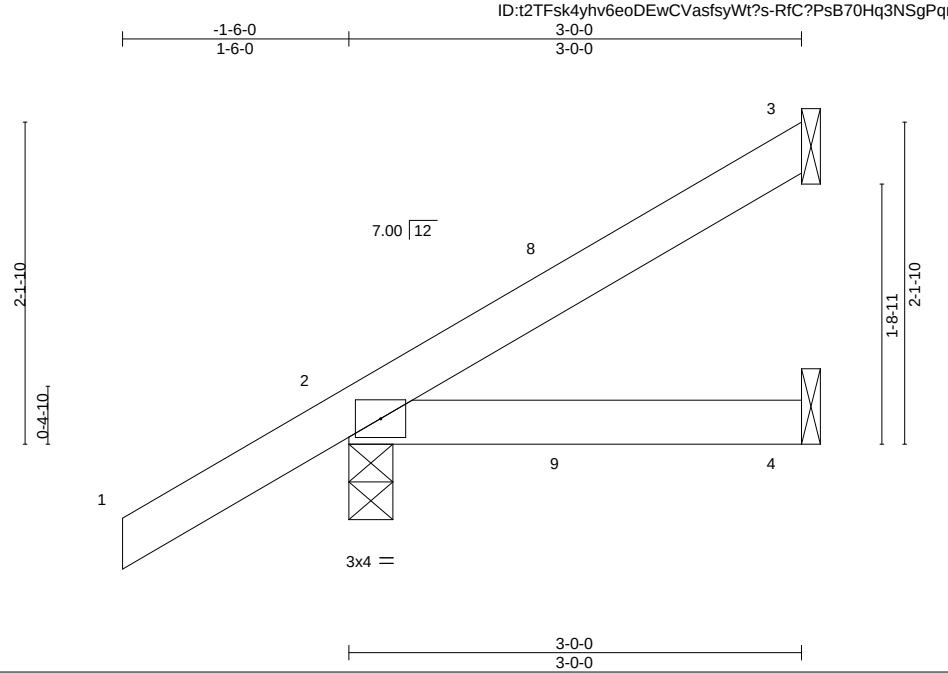

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=85(LC 12)
Max Uplift 3=-39(LC 12), 2=-54(LC 12), 4=-16(LC 9)
Max Grav 3=61(LC 19), 2=210(LC 1), 4=50(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3, 54 lb uplift at joint 2 and 16 lb uplift at joint 4.

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Date:

October 12,2023

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	CJ05	Jack-Open	4	1	T31824033
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:04 2023 Page 1
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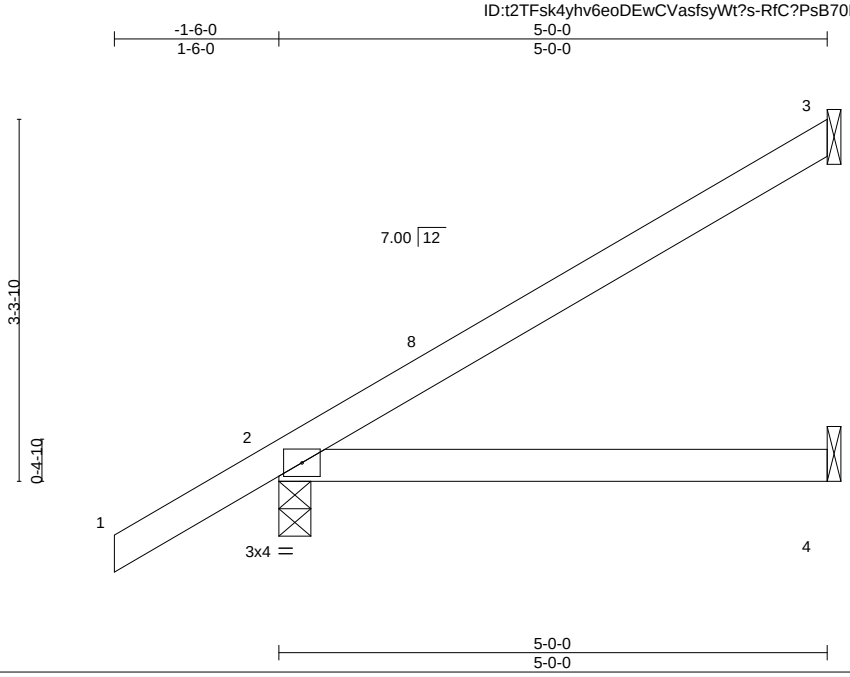

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%

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

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. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=125(LC 12)
Max Uplift 3=-73(LC 12), 2=-57(LC 12)
Max Grav 3=118(LC 19), 2=276(LC 1), 4=89(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 3 and 57 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	EJ01	Jack-Partial	11	1	T31824034
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:05 2023 Page 1
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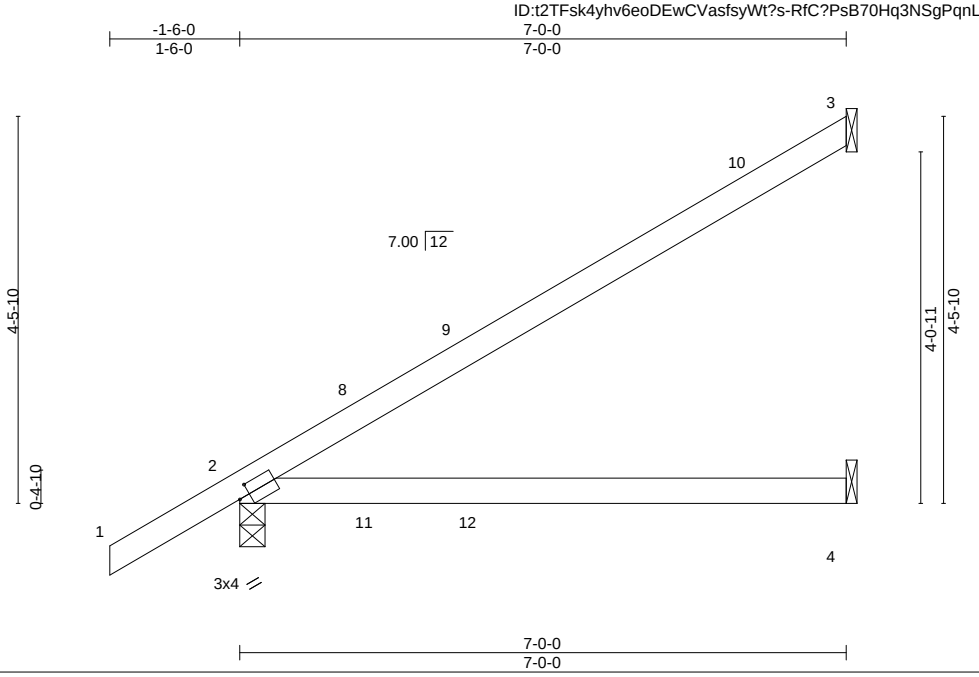

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

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	0.63	Vert(LL)	0.27	4-7	>309	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	0.22	4-7	>373	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 25 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 6-0-0 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=159(LC 12)
Max Uplift 3=-94(LC 12), 2=-66(LC 12), 4=-40(LC 9)
Max Grav 3=165(LC 19), 2=346(LC 1), 4=126(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 3, 66 lb uplift at joint 2 and 40 lb uplift at joint 4.

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Date:

October 12,2023

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	EJ02	Jack-Open	3	1	T31824035
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:06 2023 Page 1
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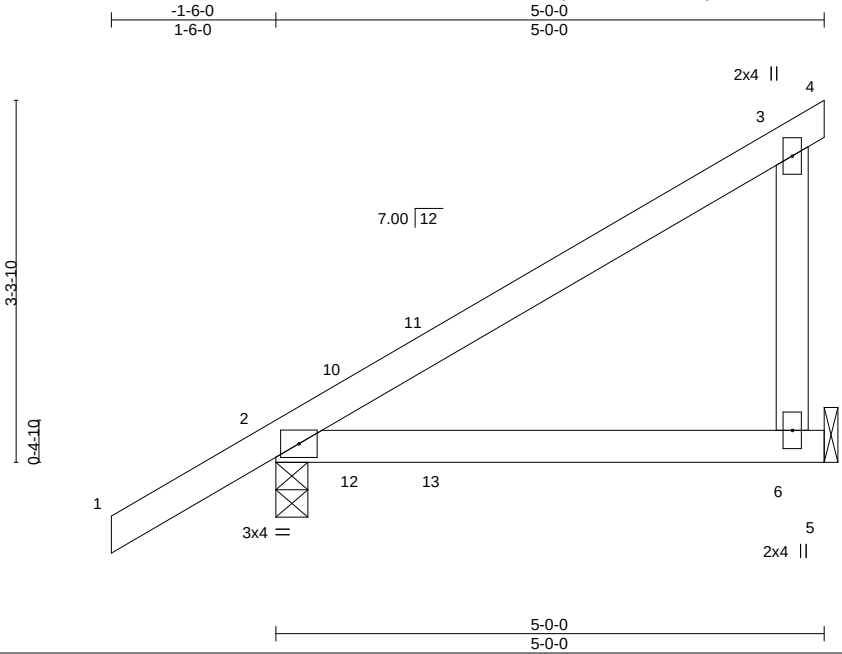

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.06	6-9	>964	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	0.05	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 23 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=125(LC 12)
Max Uplift 2=-54(LC 12), 6=-77(LC 12)
Max Grav 2=268(LC 1), 6=172(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 54 lb uplift at joint 2 and 77 lb uplift at joint 6.

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Date:

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	HJ08	Diagonal Hip Girder	1	1	T31824036
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:08 2023 Page 1
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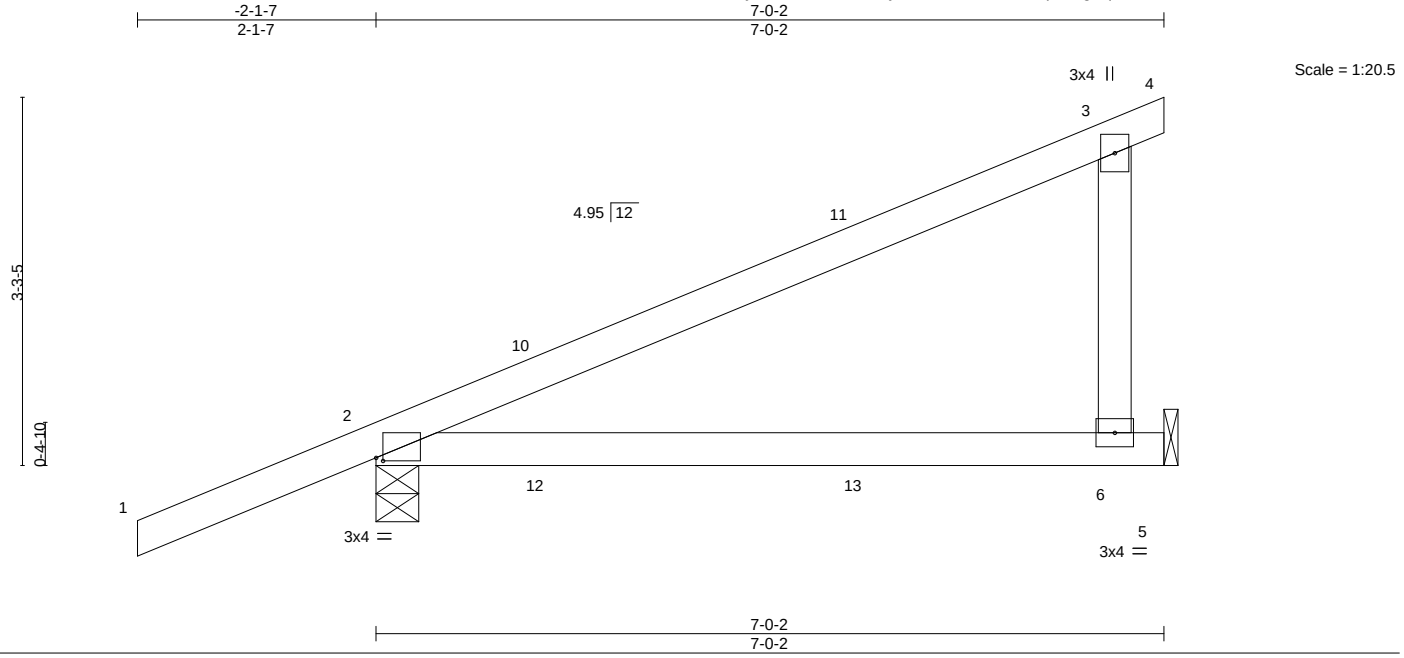

Plate Offsets (X,Y)-- [2:0-0-12,0-0-5]

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	0.61	Vert(LL)	0.08	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.13	6-9	>653	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 29 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-4-9, 5=Mechanical
Max Horz 2=124(LC 8)
Max Uplift 2=-176(LC 4), 5=-128(LC 8)
Max Grav 2=391(LC 1), 5=246(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 176 lb uplift at joint 2 and 128 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-6-1, 59 lb down and 73 lb up at 1-6-1, and 74 lb down and 42 lb up at 4-4-0, and 74 lb down and 42 lb up at 4-4-0 on top chord, and 19 lb down and 50 lb up at 1-6-1, 19 lb down and 50 lb up at 1-6-1, and 18 lb down and 24 lb up at 4-4-0, and 18 lb down and 24 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert: 13=-5(F=-3, B=-3)

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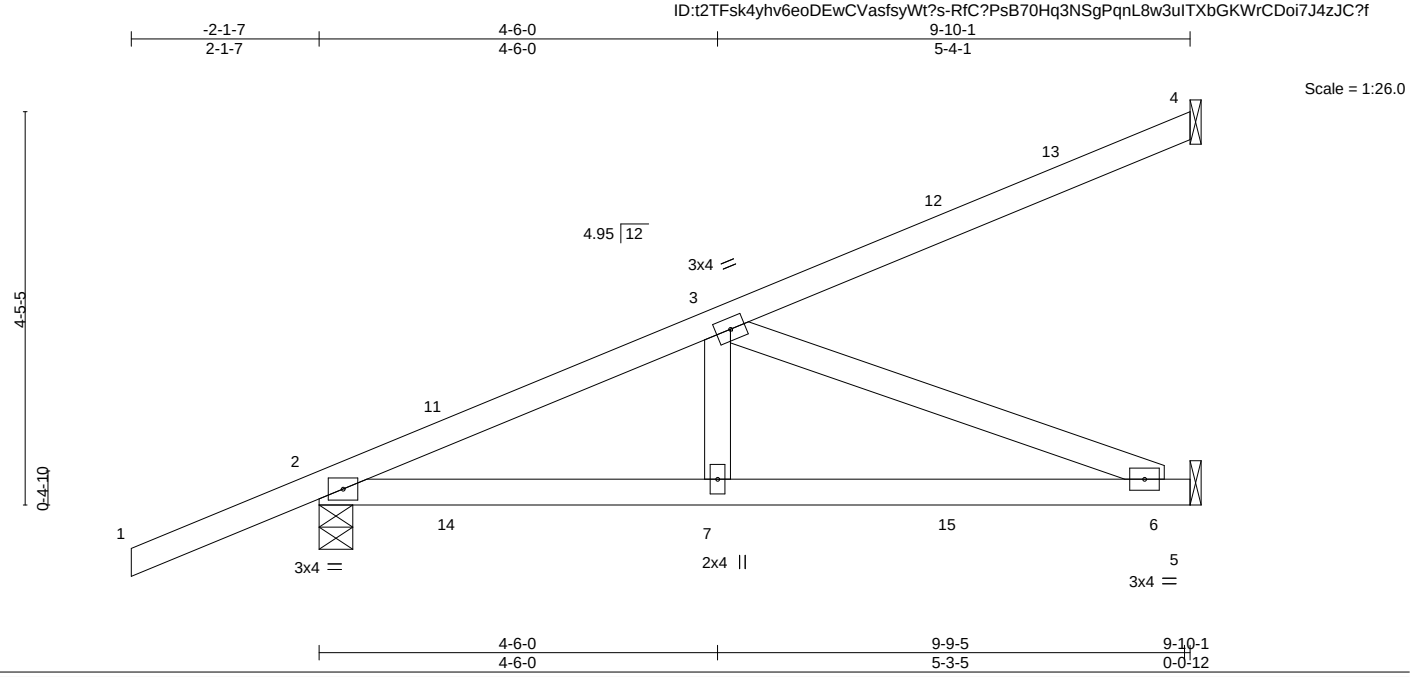
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2023

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

Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	HJ10	Diagonal Hip Girder	2	1	T31824037
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:09 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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	0.58	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=159(LC 8)
Max Uplift 4=-84(LC 8), 2=-261(LC 4), 5=-149(LC 5)
Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-712/313
BOT CHORD 2-7=-362/629, 6-7=-362/629
WEBS 3-7=-62/283, 3-6=-674/387

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4, 261 lb uplift at joint 2 and 149 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-6-1, 59 lb down and 73 lb up at 1-6-1, 74 lb down and 42 lb up at 4-4-0, 74 lb down and 42 lb up at 4-4-0, and 106 lb down and 84 lb up at 7-1-15, and 106 lb down and 84 lb up at 7-1-15 on top chord, and 42 lb down and 50 lb up at 1-6-1, 42 lb down and 50 lb up at 1-6-1, 19 lb down and 24 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 69 lb down at 7-1-15, and 69 lb down 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: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-5(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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Date:

October 12,2023

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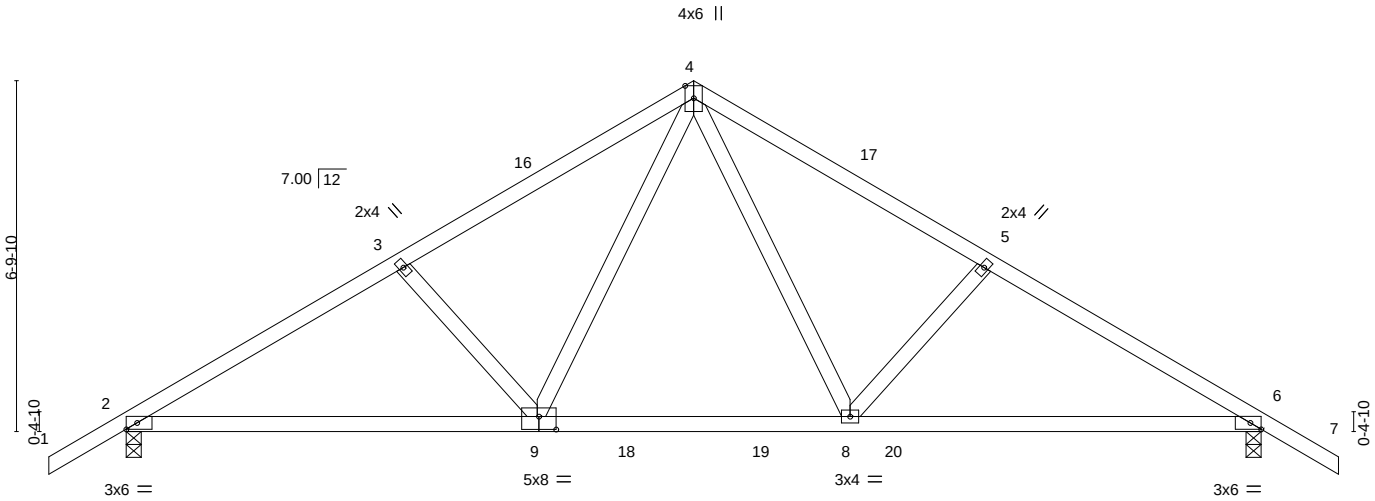
Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T01	Common	10	1	T31824038
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:10 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-6-0	5-4-7	11-0-0	16-7-9	22-0-0	23-6-0
1-6-0	5-4-7	5-7-9	5-7-9	5-4-7	1-6-0

Scale = 1:44.7



7-11-10	14-0-6	22-0-0
7-11-10	6-0-12	7-11-10

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

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	0.40	Vert(LL)	-0.13	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.22	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 108 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=161(LC 11)
Max Uplift 2=-251(LC 12), 6=-256(LC 13)
Max Grav 2=1201(LC 19), 6=1217(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1787/372, 3-4=-1633/361, 4-5=-1665/370, 5-6=-1817/380
BOT CHORD 2-9=-341/1621, 8-9=-143/1099, 6-8=-240/1527
WEBS 4-8=-191/823, 5-8=-306/191, 4-9=-174/764, 3-9=-306/191

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-6-0 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2 and 256 lb uplift at joint 6.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 9-10=-20, 9-20=-80(F=-60), 13-20=-20

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Philip J. O'Regan PE No.58126
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Date:

October 12,2023

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T01G	Common Supported Gable	1	1	T31824039
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:12 2023 Page 1
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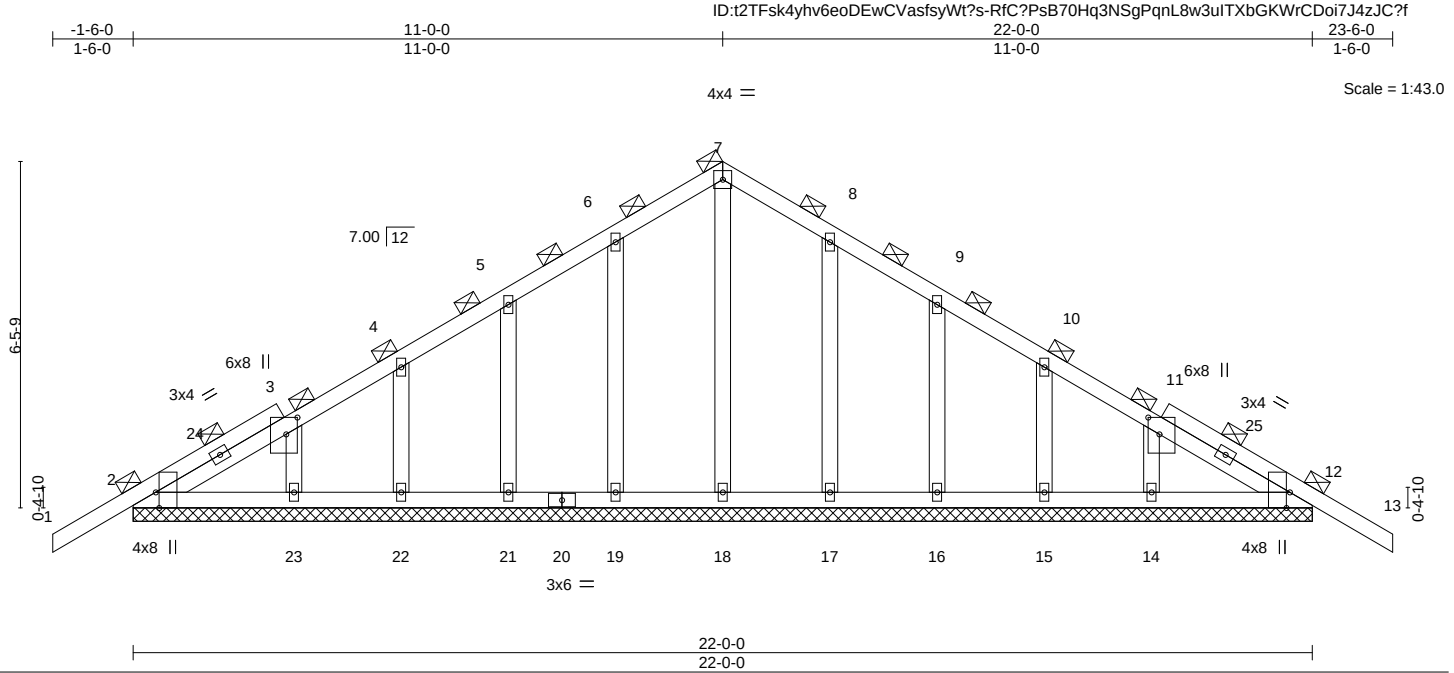

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-3-12,0-2-8], [11:0-3-12,0-2-8], [12:0-3-8,Edge]

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)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 128 lb	FT = 20%

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

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=-153(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 21, 22, 23, 17, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 21, 22, 23, 17, 16, 15, 14

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-6-0 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, 12, 19, 21, 22, 23, 17, 16, 15, 14.
11) 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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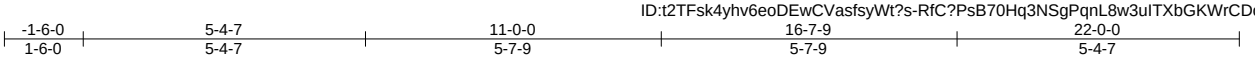
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2023

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

Job	Truss	Truss Type	Qty	Ply	LOT 24 RP T31824040
3708825	T02	Common	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:13 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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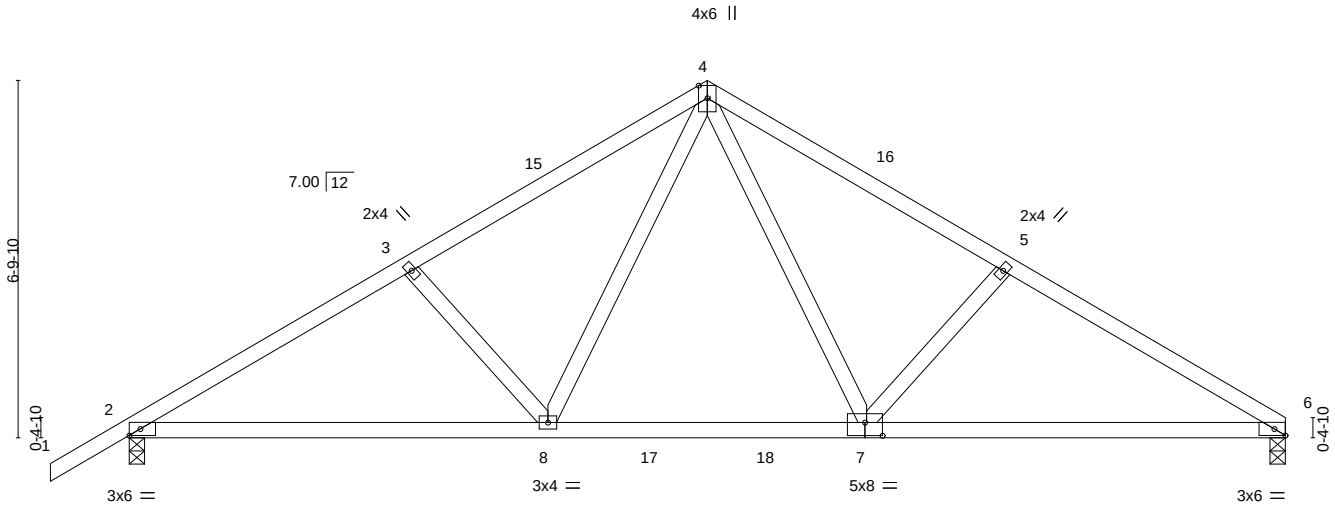

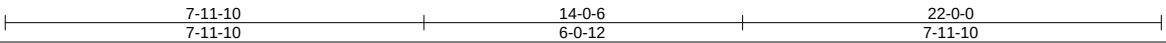

Plate Offsets (X,Y)-- [6:0-2-8,Edge], [7:0-4-0,0-3-0]

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	0.39	Vert(LL)	-0.13	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.22	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 106 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=154(LC 9)
Max Uplift 6=-213(LC 13), 2=-247(LC 12)
Max Grav 6=1104(LC 20), 2=1183(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1753/364, 3-4=-1601/354, 4-5=-1607/359, 5-6=-1762/371
BOT CHORD 2-8=-348/1582, 7-8=-149/1059, 6-7=-260/1487
WEBS 4-7=-182/776, 5-7=-315/196, 4-8=-176/764, 3-8=-306/191

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-0-0 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, 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) 6=213, 2=247.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 8-12=-20, 7-8=-80(F=-60), 7-9=-20

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Date:

October 12,2023

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T03	Hip Girder	1	1	T31824041
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:15 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-6-0	3-11-6	7-0-0	11-6-2	16-6-0	21-5-14	26-0-0	29-0-10	33-0-0	34-6-0
1-6-0	3-11-6	3-0-10	4-6-2	4-11-14	4-11-14	4-6-2	3-0-10	3-11-6	1-6-0

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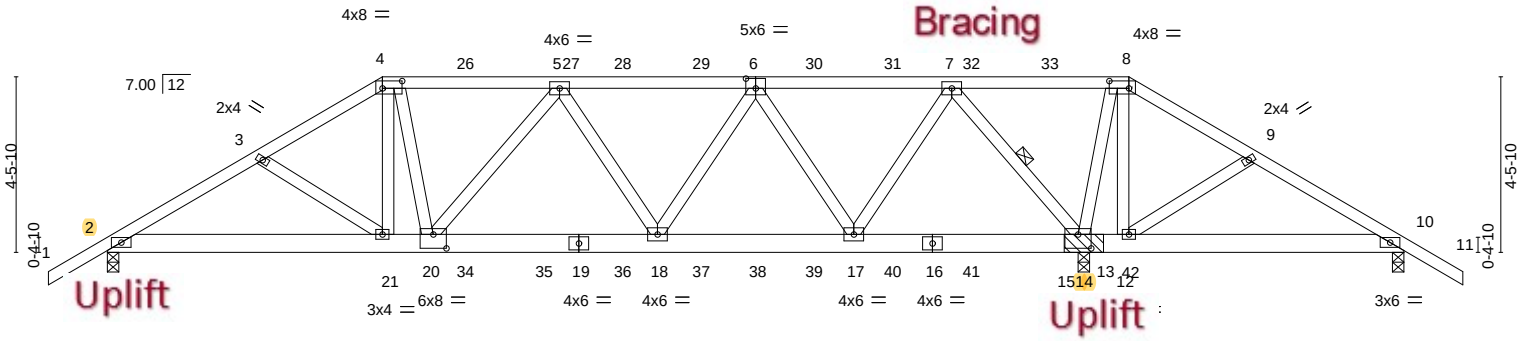

7-0-0	8-1-12	14-0-0	19-0-0	24-10-4	26-0-0	33-0-0
7-0-0	1-1-12	5-10-4	4-11-15	5-10-4	1-1-12	7-0-0

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [6:0-3-0,0-3-0], [8:0-6-0,0-2-4], [14:0-4-0,0-4-4], [20:0-4-0,0-4-4]

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	0.87	Vert(LL)	0.12	18-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.18	18-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.04	14	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 212 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-14

REACTIONS. (size) 2=0-3-8, 14=(0-3-8 + bearing block) (req. 0-4-10), 10=0-3-8
Max Horz 2=-110(LC 6)
Max Uplift 2=-685(LC 8), 14=-1804(LC 5), 10=-546(LC 19)
Max Grav 2=1583(LC 19), 14=3901(LC 1), 10=384(LC 7)

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

TOP CHORD	2-3=-2661/1227, 3-4=-2510/1191, 4-5=-2270/1128, 5-6=-2230/1104, 6-7=-1064/554, 7-8=-706/1553, 8-9=-627/1403, 9-10=-658/1314
BOT CHORD	2-21=-1055/2272, 20-21=-998/2145, 18-20=-1183/2438, 17-18=-909/1829, 12-14=-1164/613, 10-12=-1115/564
WEBS	4-21=-175/485, 4-20=-313/482, 5-20=-317/229, 5-18=-408/224, 6-18=-357/778, 6-17=-1477/732, 7-17=-826/1761, 7-14=-2652/1293, 8-14=-1396/670, 8-12=-133/313

NOTES-

1) 2x6 SP No.2 bearing block 12" long at jt. 14 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide adequate drainage to prevent water ponding.
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=685, 14=1804, 10=546.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 101 lb up at 7-0-0, 119 lb down and 98 lb up at 9-0-12, 119 lb down and 98 lb up at 11-0-12, 119 lb down and 98 lb up at 13-0-12, 119 lb down and 98 lb up at 15-0-12, 119 lb down and 91 lb up at 16-6-0, 119 lb down and 98 lb up at 17-11-4, 119 lb down and 98 lb up at 19-11-4, 119 lb down and 98 lb up at 21-11-4, and 119 lb down and 98 lb up at 23-11-4, and 229 lb down and 196 lb up at 26-0-0 on top chord, and 336 lb down and 240 lb up at 7-0-0, 86 lb down and 60 lb up at 9-0-12, 86 lb down and 60 lb up at 11-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 15-0-12, 86 lb down and 60 lb up at 16-6-0, 86 lb down and 60 lb up at 17-11-4, 86 lb down and 60 lb up at 19-11-4, 86 lb down and 60 lb up at 21-11-4, and 86 lb down and 60 lb up at 23-11-4, and 336 lb down and 240 lb up at 25-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

LOAD CASE(S) Standard

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October 12,2023

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LOAD CASE(S) Standard

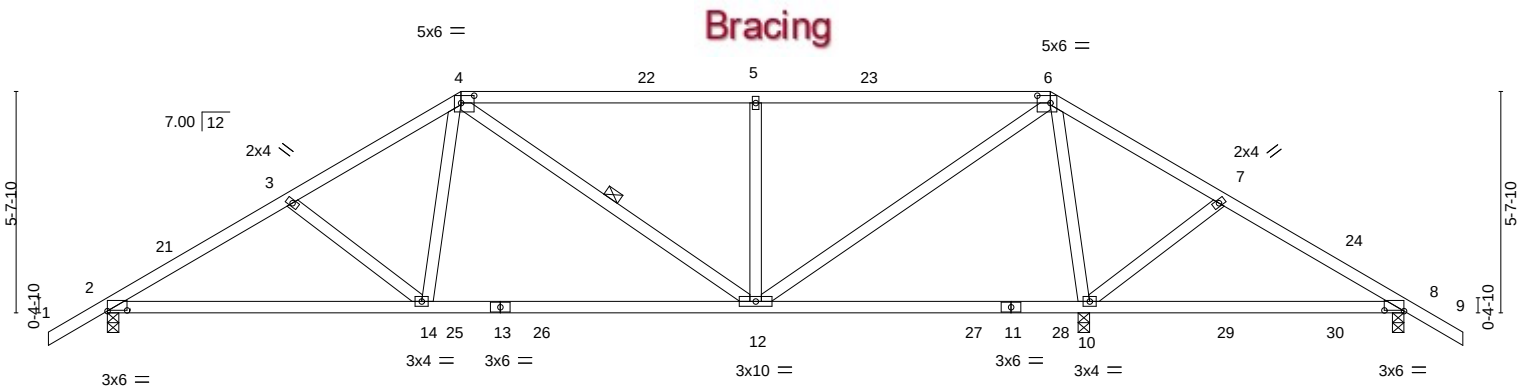
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-8=-54, 8-11=-54, 2-10=-20
   Concentrated Loads (lb)
   Vert: 4=-109(F) 6=-109(F) 8=-182(F) 21=-336(F) 12=-336(F) 26=-109(F) 27=-109(F) 28=-109(F) 29=-109(F) 30=-109(F) 31=-109(F) 32=-109(F) 33=-109(F) 34=-64(F) 35=-64(F) 36=-64(F) 37=-64(F) 38=-64(F) 39=-64(F) 40=-64(F) 41=-64(F) 42=-64(F)

Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T04	Hip	1	1	T31824042
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:17 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-6-0	4-8-8	9-0-0	16-6-0	24-0-0	28-3-8	33-0-0	34-6-0
1-6-0	4-8-8	4-3-8	7-6-0	7-6-0	4-3-8	4-8-8	1-6-0

Scale = 1:58.6



8-1-12	16-6-0	24-10-4	33-0-0
8-1-12	8-4-4	8-4-4	8-1-12

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

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	0.64	Vert(LL)	0.16	10-20	>618	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	0.14	10-20	>719	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 170 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 8=0-3-8
Max Horz 2=-135(LC 10)
Max Uplift 2=-237(LC 12), 10=-271(LC 13), 8=-91(LC 13)
Max Grav 2=998(LC 25), 10=1663(LC 2), 8=200(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1446/337, 3-4=-1286/299, 4-5=-904/223, 5-6=-904/223, 6-7=-75/459, 7-8=-102/329
BOT CHORD 2-14=-299/1234, 12-14=-218/991, 8-10=-254/88
WEBS 3-14=-277/152, 4-14=-45/501, 5-12=-470/229, 6-12=-280/1291, 6-10=-1202/258, 7-10=-276/180

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 9-0-0, Exterior(2R) 9-0-0 to 13-8-0, Interior(1) 13-8-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-5-0, Interior(1) 28-5-0 to 34-6-0 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=237, 10=271.

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October 12,2023

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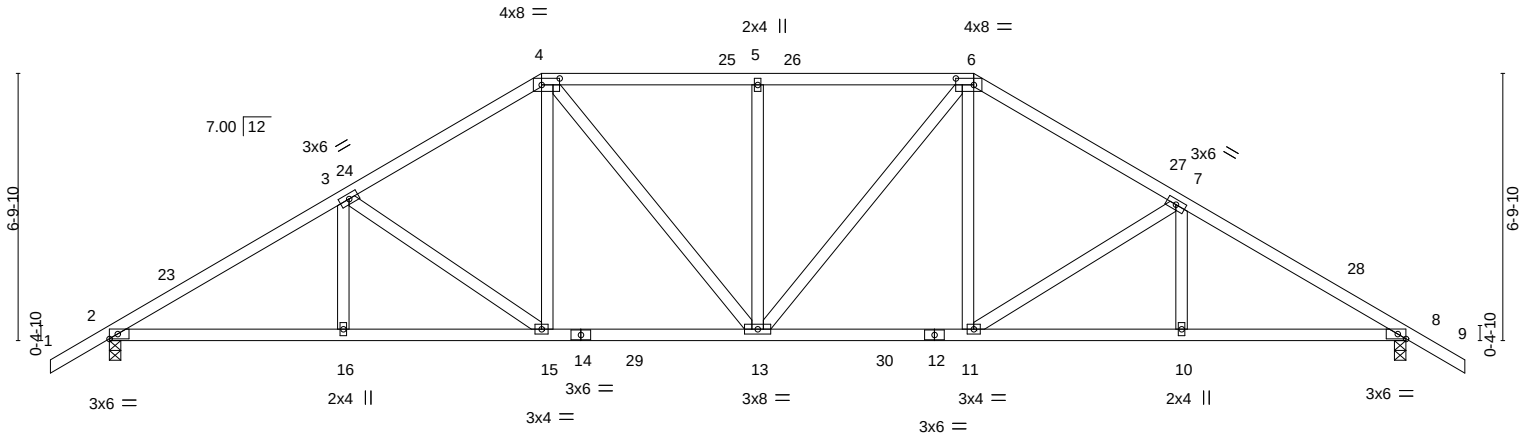
Job	Truss	Truss Type	Qty	Ply	LOT 24 RP T31824043
3708825	T05	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:18 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-6-0	5-11-7	11-0-0	16-6-0	22-0-0	27-3-8	33-0-0	34-6-0
1-6-0	5-11-7	5-0-9	5-6-0	5-6-0	5-3-8	5-8-8	1-6-0

Scale = 1:58.6



5-11-7	11-0-0	16-6-0	22-0-0	27-3-8	33-0-0
5-11-7	5-0-9	5-6-0	5-6-0	5-3-8	5-8-8

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

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	0.34	Vert(LL)	-0.13	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 188 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-161(LC 10)
Max Uplift 2=-292(LC 12), 8=-292(LC 13)
Max Grav 2=1402(LC 2), 8=1402(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2243/424, 3-4=-1836/378, 4-5=-1739/353, 5-6=-1739/353, 6-7=-1840/376, 7-8=-2256/428
BOT CHORD 2-16=-378/1889, 15-16=-378/1889, 13-15=-225/1540, 11-13=-137/1542, 10-11=-276/1902, 8-10=-276/1902
WEBS 3-15=-518/188, 4-15=-73/501, 4-13=-160/387, 5-13=-339/169, 6-13=-161/386, 6-11=-67/494, 7-11=-523/190

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 11-0-0, Exterior(2R) 11-0-0 to 15-8-0, Interior(1) 15-8-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-8-0, Interior(1) 26-8-0 to 34-6-0 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=292, 8=292.

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Date:

October 12,2023

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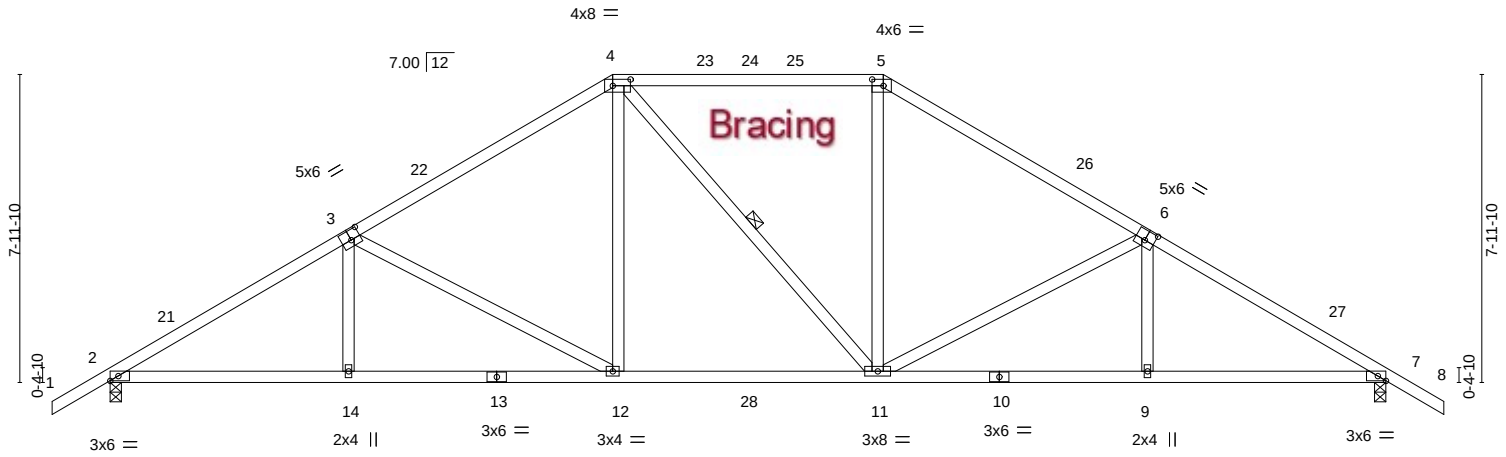
Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T06	Hip	1	1	T31824044
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:20 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-6-0	6-2-0	13-0-0	20-0-0	26-10-0	33-0-0	34-6-0
1-6-0	6-2-0	6-10-0	7-0-0	6-10-0	6-2-0	1-6-0

Scale = 1:59.6



6-2-0	13-0-0	20-0-0	26-10-0	33-0-0
6-2-0	6-10-0	7-0-0	6-10-0	6-2-0

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-5-8,0-2-0], [5:0-3-8,0-2-0], [6:0-3-0,0-3-0], [7:0-2-8,Edge]

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	0.70	Vert(LL)	-0.15	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 179 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-3 oc bracing.
WEBS 1 Row at midpt 4-11

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-187(LC 10)
Max Uplift 2=-288(LC 12), 7=-288(LC 13)
Max Grav 2=1406(LC 19), 7=1400(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2242/421, 3-4=-1710/342, 4-5=-1406/346, 5-6=-1699/342, 6-7=-2232/421
BOT CHORD 2-14=-395/1977, 12-14=-395/1977, 11-12=-185/1416, 9-11=-269/1882, 7-9=-269/1882
WEBS 3-14=0/268, 3-12=-652/238, 4-12=-69/587, 5-11=-64/553, 6-11=-653/239, 6-9=0/267

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 13-0-0, Exterior(2R) 13-0-0 to 17-8-0, Interior(1) 17-8-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-8-0, Interior(1) 24-8-0 to 34-6-0 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=288, 7=288.

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Date:

October 12,2023

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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T07	Hip	1	1	T31824045
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:21 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

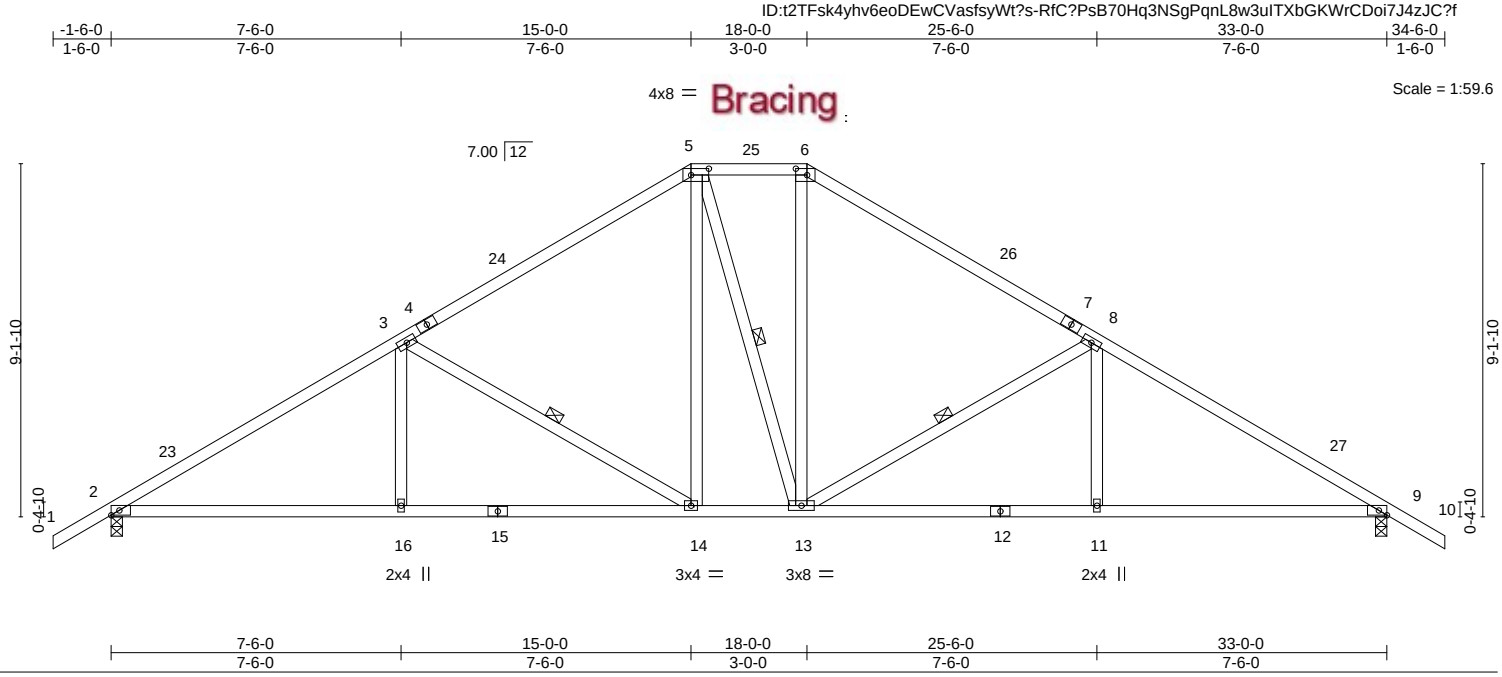

Plate Offsets (X,Y)-- [5:0-5-8,0-2-0], [6:0-3-8,0-2-0], [9:0-2-8,Edge]

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	0.62	Vert(LL)	-0.11	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.25	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 187 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.
WEBS 1 Row at midpt 3-14, 5-13, 8-13

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-213(LC 10)
Max Uplift 2=-284(LC 12), 9=-284(LC 13)
Max Grav 2=1302(LC 1), 9=1302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2017/400, 3-5=-1430/315, 5-6=-1142/325, 6-8=-1431/315, 8-9=-2016/400
BOT CHORD 2-16=-378/1671, 14-16=-378/1671, 13-14=-142/1141, 11-13=-235/1670, 9-11=-235/1670
WEBS 3-16=0/329, 3-14=-648/275, 5-14=-104/421, 6-13=-106/423, 8-13=-646/276, 8-11=0/327

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0, Exterior(2R) 18-0-0 to 22-8-0, Interior(1) 22-8-0 to 34-6-0 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) All plates are 3x6 MT20 unless otherwise indicated.
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=284, 9=284.

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October 12,2023

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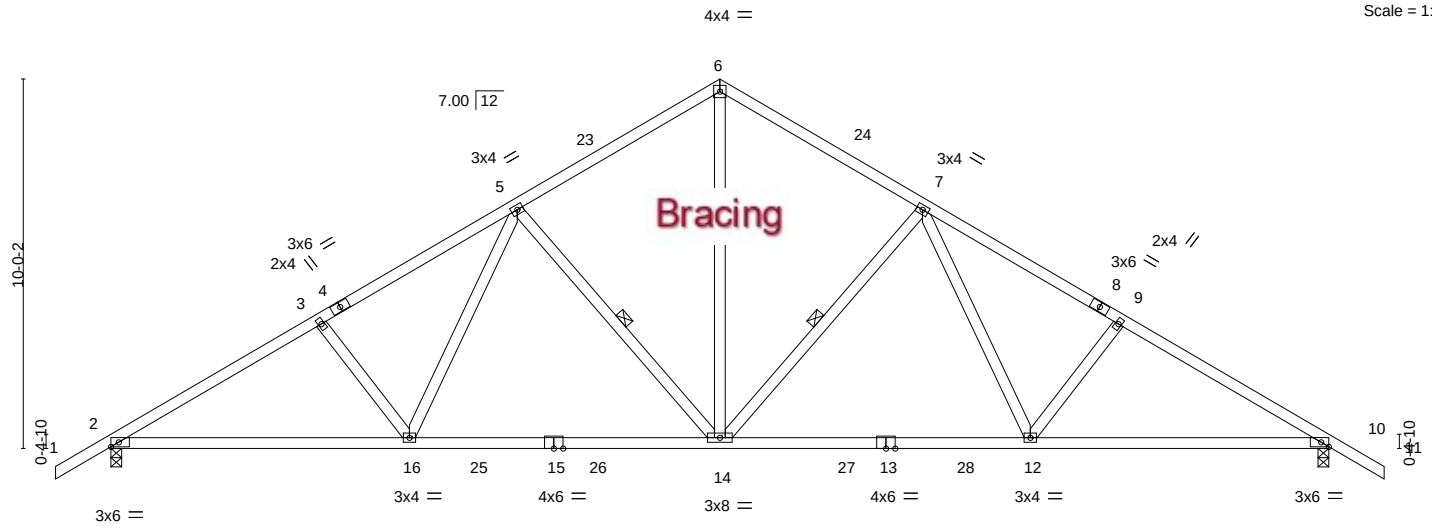
Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T08	Common	13	1	T31824046
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:22 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-6-0	5-8-7	11-0-2	16-6-0	21-11-14	27-3-9	33-0-0	34-6-0
1-6-0	5-8-7	5-3-11	5-5-14	5-5-14	5-3-11	5-8-7	1-6-0

Scale = 1:62.4



8-1-1	16-6-0	24-10-15	33-0-0
8-1-1	8-4-15	8-4-15	8-1-1

Plate Offsets (X,Y)-- [10:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.21	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.35	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 182 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-1-8 oc bracing.
WEBS 1 Row at midpt 7-14, 5-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=231(LC 11)
Max Uplift 2=-280(LC 12), 10=-280(LC 13)
Max Grav 2=1489(LC 19), 10=1489(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2313/408, 3-5=-2179/412, 5-6=-1482/338, 6-7=-1482/338, 7-9=-2179/412, 9-10=-2313/408
BOT CHORD 2-16=-415/2120, 14-16=-269/1708, 12-14=-167/1594, 10-12=-259/1947
WEBS 6-14=-221/1185, 7-14=-640/255, 7-12=-103/603, 9-12=-277/174, 5-14=-639/255, 5-16=-103/603, 3-16=-277/174

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 16-6-0, Exterior(2R) 16-6-0 to 19-9-10, Interior(1) 19-9-10 to 34-6-0 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, 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=280, 10=280.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 12,2023

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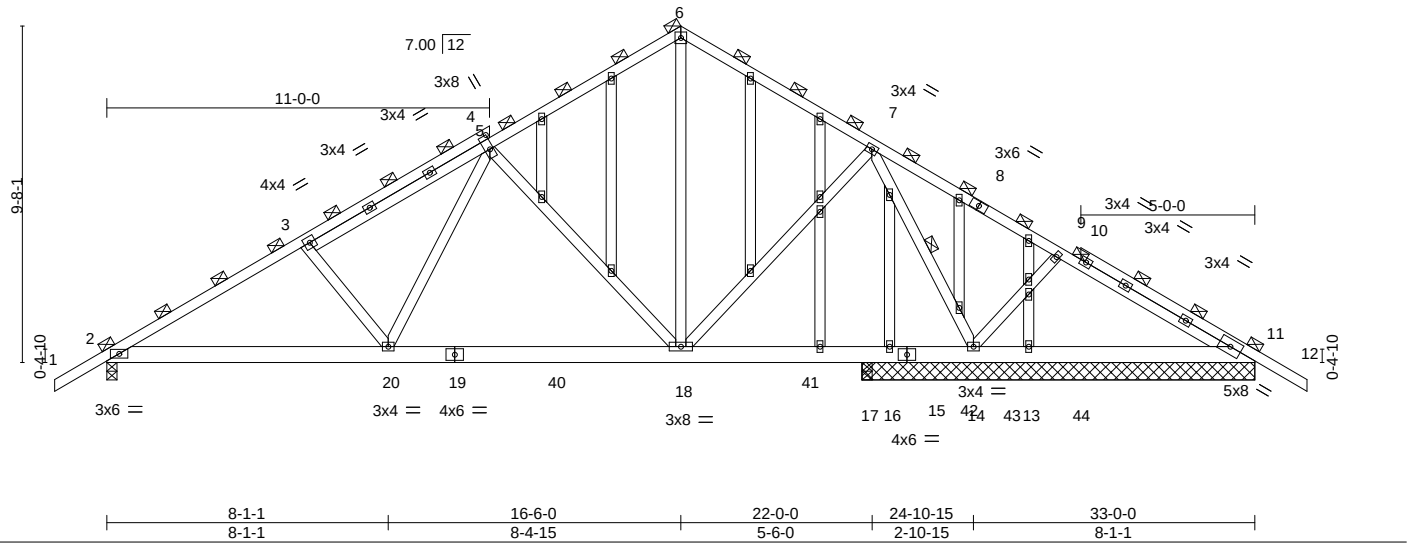
Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T08G	GABLE	1	1	T31824047
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:24 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-6-0	5-8-7	11-0-2	16-6-0	21-11-14	27-3-9	33-0-0	34-6-0
1-6-0	5-8-7	5-3-11	5-5-14	5-5-14	5-3-11	5-8-7	1-6-0

Bracing

Scale = 1:66.2



8-1-1	16-6-0	22-0-0	24-10-15	33-0-0
8-1-1	8-4-15	5-6-0	2-10-15	8-1-1

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

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	0.42	Vert(LL)	-0.07	18-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.12	18-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 269 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (4-7-2 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14,11-13.
WEBS 1 Row at midpt 7-14

REACTIONS. All bearings 11-3-8 except (jt=length) 2=0-3-8, 17=0-3-8.
(lb) - Max Horz 2=-224(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 11, 17 except 2=-224(LC 27), 14=-327(LC 28), 16=-235(LC 15), 13=-342(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 16, 11 except 2=1069(LC 15), 14=1246(LC 16), 13=773(LC 20), 11=292(LC 20), 17=401(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1522/301, 3-4=-1395/302, 4-6=-649/203, 6-7=-665/212, 7-9=-81/489, 9-11=-80/336
BOT CHORD 2-20=-316/1433, 18-20=-181/1040, 13-14=-253/104, 11-13=-253/104
WEBS 6-18=-102/367, 7-18=-66/545, 7-14=-1244/269, 9-14=-282/177, 4-18=-690/261, 4-20=-94/610

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 17, 11 except (jt=lb) 2=224, 14=327, 16=235, 13=342.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 97 lb up at 23-11-4, and 152 lb down and 97 lb up at 25-11-4, and 369 lb down and 253 lb up at 27-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Date:

October 12,2023

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-12=-54, 2-37=-20
   Concentrated Loads (lb)
   Vert: 42=-152(B) 43=-152(B) 44=-369(B)

Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T09	Common	3	1	T31824048
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:26 2023 Page 1
ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

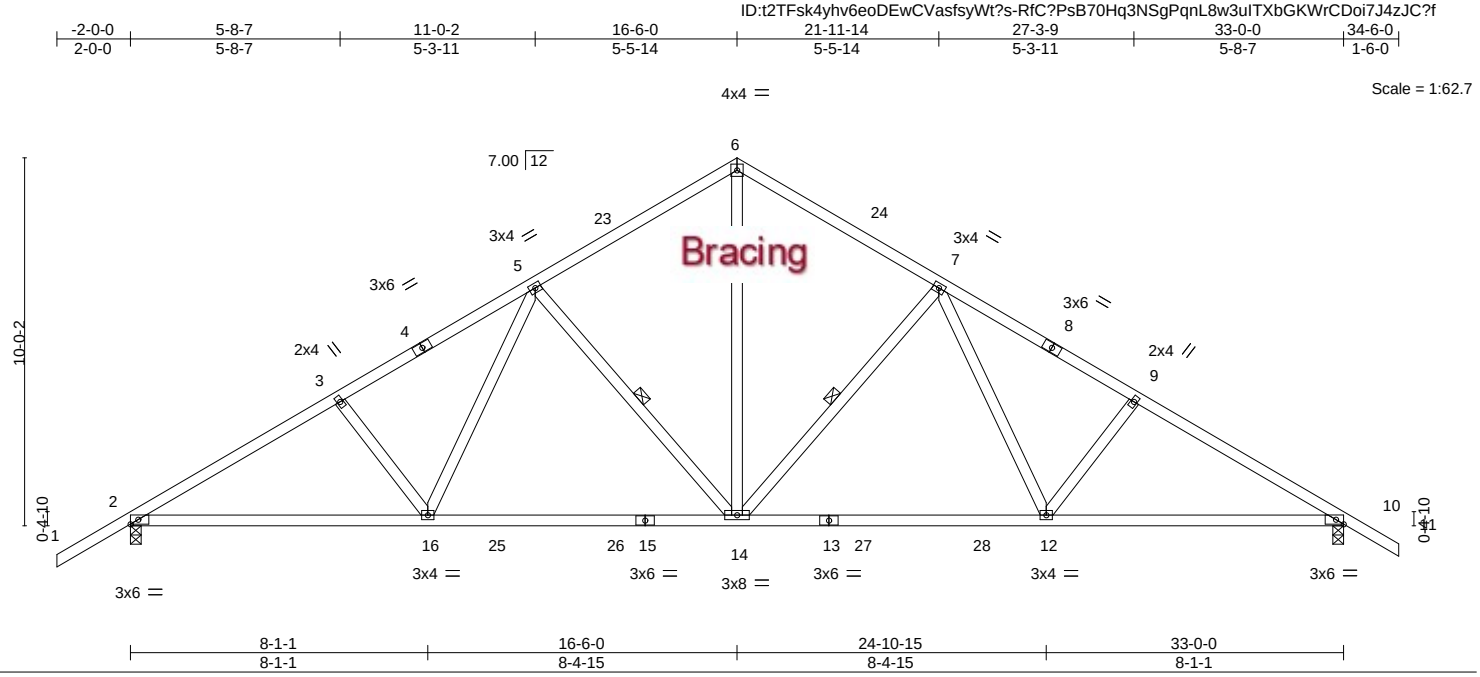

Plate Offsets (X,Y)-- [10:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.21	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.35	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 183 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.
WEBS 1 Row at midpt 7-14, 5-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=236(LC 11)
Max Uplift 2=-291(LC 12), 10=-280(LC 13)
Max Grav 2=1515(LC 19), 10=1488(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2313/401, 3-5=-2168/405, 5-6=-1481/336, 6-7=-1480/337, 7-9=-2178/412, 9-10=-2311/408
BOT CHORD 2-16=-407/2107, 14-16=-266/1703, 12-14=-166/1592, 10-12=-258/1945
WEBS 6-14=-220/1184, 7-14=-639/255, 7-12=-103/603, 9-12=-277/174, 5-14=-635/252, 5-16=-97/593, 3-16=-271/170

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-3-10, Interior(1) 1-3-10 to 16-6-0, Exterior(2R) 16-6-0 to 19-9-10, Interior(1) 19-9-10 to 34-6-0 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, 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=291, 10=280.

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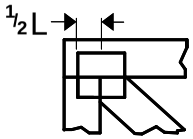
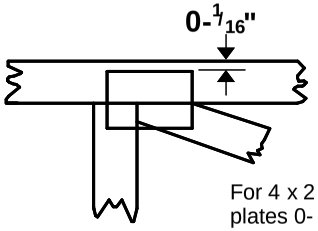
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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

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

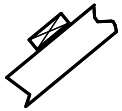
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

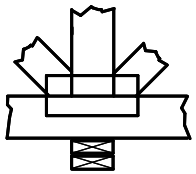
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

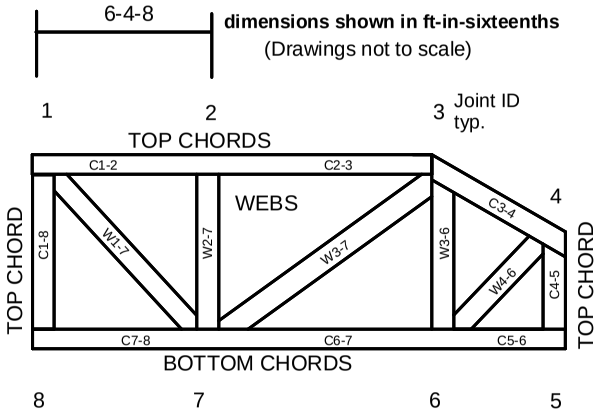


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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.

MiTek®

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.