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

RE: 4260882 - DWC - LOT 23 TW

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

Site Information:

Customer Info: DWC CONT. Project Name: Spec Hse Model: Custom
Lot/Block: 23 Subdivision: Thornwood
Address: 284 SW Thistlewood Lane, 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

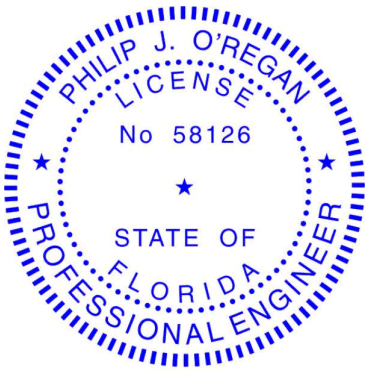
This package includes 47 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35200991	CJ01	10/7/24	15	T35201005	T06	10/7/24
2	T35200992	CJ01A	10/7/24	16	T35201006	T07	10/7/24
3	T35200993	CJ03	10/7/24	17	T35201007	T08	10/7/24
4	T35200994	CJ05	10/7/24	18	T35201008	T09	10/7/24
5	T35200995	CJ05A	10/7/24	19	T35201009	T10	10/7/24
6	T35200996	EJ01	10/7/24	20	T35201010	T11	10/7/24
7	T35200997	EJ02	10/7/24	21	T35201011	T13	10/7/24
8	T35200998	EJ03	10/7/24	22	T35201012	T14	10/7/24
9	T35200999	HJ04	10/7/24	23	T35201013	T15	10/7/24
10	T35201000	HJ10	10/7/24	24	T35201014	T16	10/7/24
11	T35201001	T03	10/7/24	25	T35201015	T17	10/7/24
12	T35201002	T03G	10/7/24	26	T35201016	T18	10/7/24
13	T35201003	T04	10/7/24	27	T35201017	T19	10/7/24
14	T35201004	T05	10/7/24	28	T35201018	T20	10/7/24

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.



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

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.

October 7,2024

RE: 4260882 - DWC - LOT 23 TW

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

Site Information:

Customer Info: DWC CONT. Project Name: Spec Hse Model: Custom
Lot/Block: 23 Subdivision: Thornwood
Address: 284 SW Thistlewood Lane, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T35201019	T21	10/7/24
30	T35201020	T22	10/7/24
31	T35201021	T23	10/7/24
32	T35201022	T24	10/7/24
33	T35201023	T25	10/7/24
34	T35201024	T26	10/7/24
35	T35201025	T27	10/7/24
36	T35201026	T28	10/7/24
37	T35201027	T28G	10/7/24
38	T35201028	T29	10/7/24
39	T35201029	T30	10/7/24
40	T35201030	T31	10/7/24
41	T35201031	T32	10/7/24
42	T35201032	T33	10/7/24
43	T35201033	T34	10/7/24
44	T35201034	T35	10/7/24
45	T35201035	T36	10/7/24
46	T35201036	T37	10/7/24
47	T35201037	T37G	10/7/24

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW
4260882	CJ01	JACK-OPEN	4	1	T35200991
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:47 2024 Page 1
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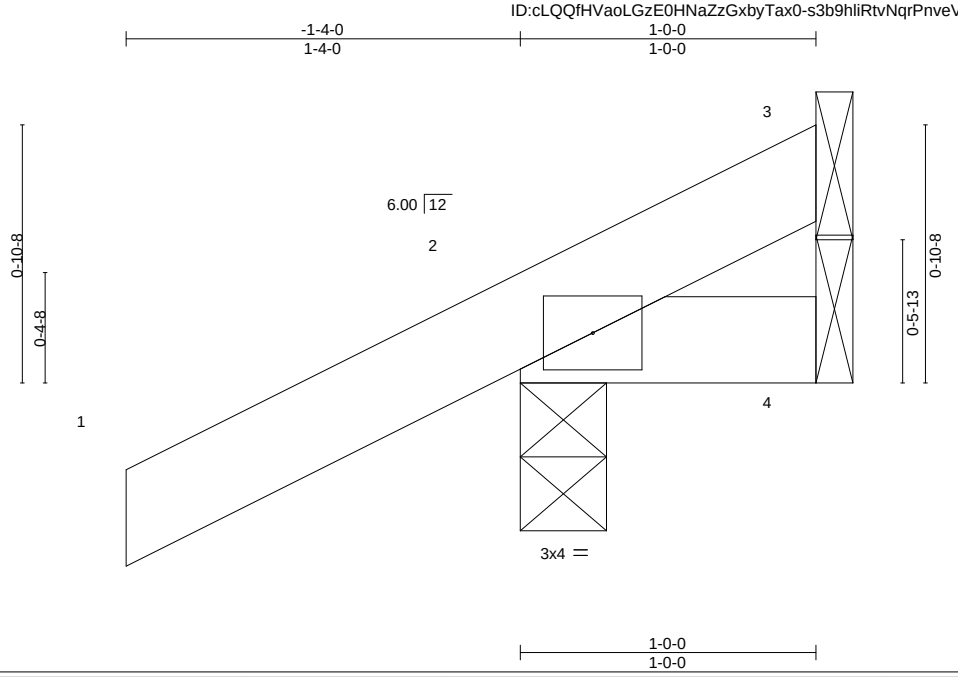

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		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=41(LC 12)
Max Uplift 3=-2(LC 13), 2=-67(LC 12), 4=-12(LC 1)
Max Grav 3=7(LC 8), 2=157(LC 1), 4=17(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 2 lb uplift at joint 3, 67 lb uplift at joint 2 and 12 lb uplift at joint 4.

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 7,2024

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

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200992
4260882	CJ01A	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:48 2024 Page 1
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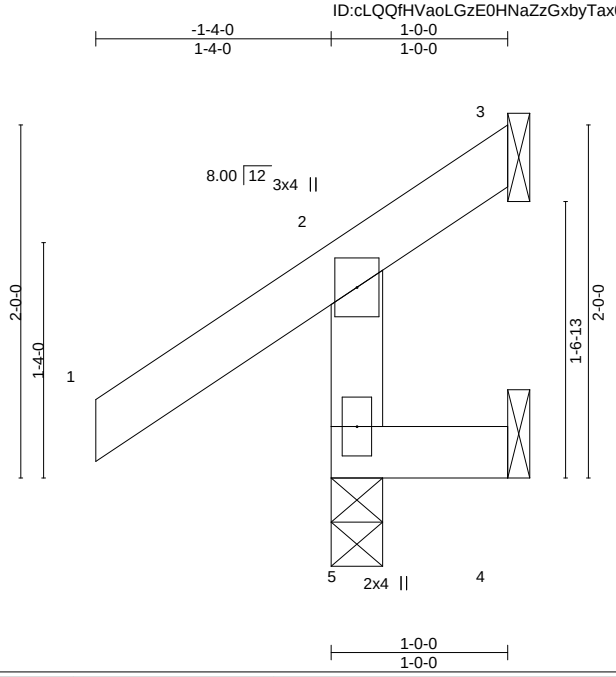

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 7 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 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=51(LC 9)
Max Uplift 5=-29(LC 12), 3=-34(LC 1), 4=-30(LC 9)
Max Grav 5=181(LC 1), 3=10(LC 8), 4=18(LC 10)

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; end vertical left exposed; 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 29 lb uplift at joint 5, 34 lb uplift at joint 3 and 30 lb uplift at joint 4.

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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 7,2024

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

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200993
4260882	CJ03	JACK-OPEN	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:48 2024 Page 1
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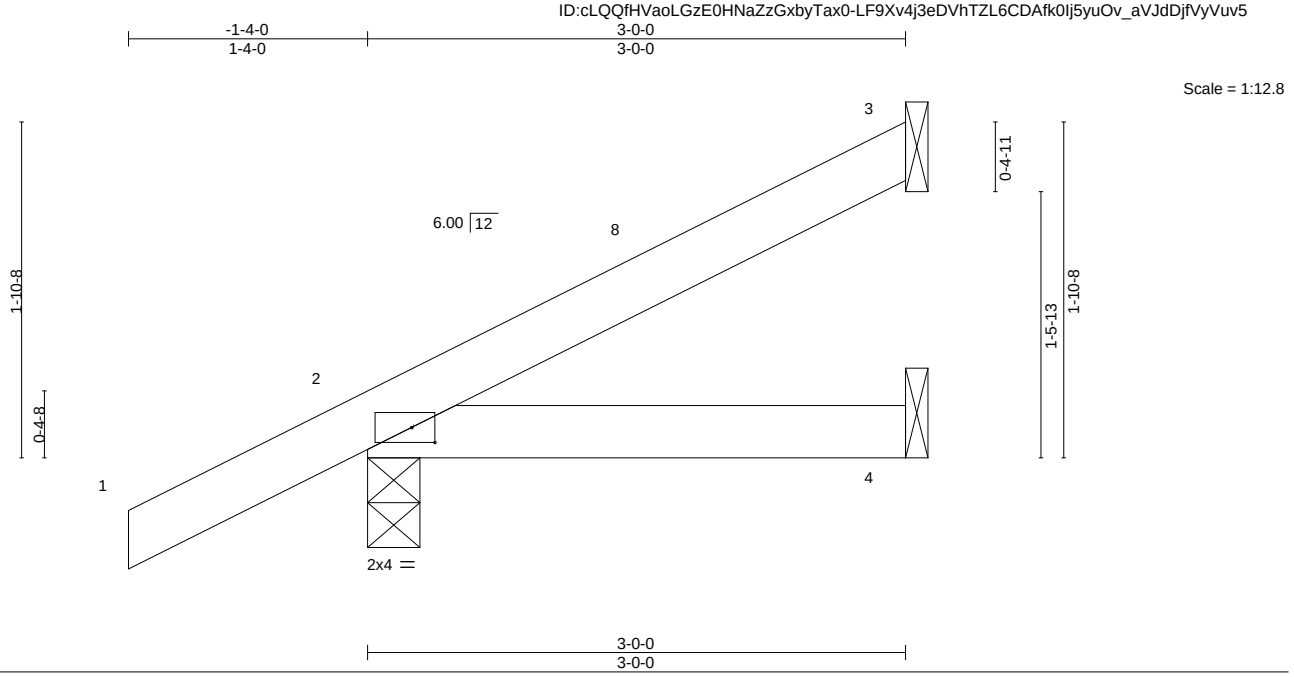

Plate Offsets (X,Y)-- [2:0-1-9,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	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 FBC2023/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=79(LC 12)
Max Uplift 3=-42(LC 12), 2=-62(LC 12)
Max Grav 3=62(LC 1), 2=197(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 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 42 lb uplift at joint 3 and 62 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 7,2024

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

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200994
4260882	CJ05	JACK-OPEN	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:49 2024 Page 1
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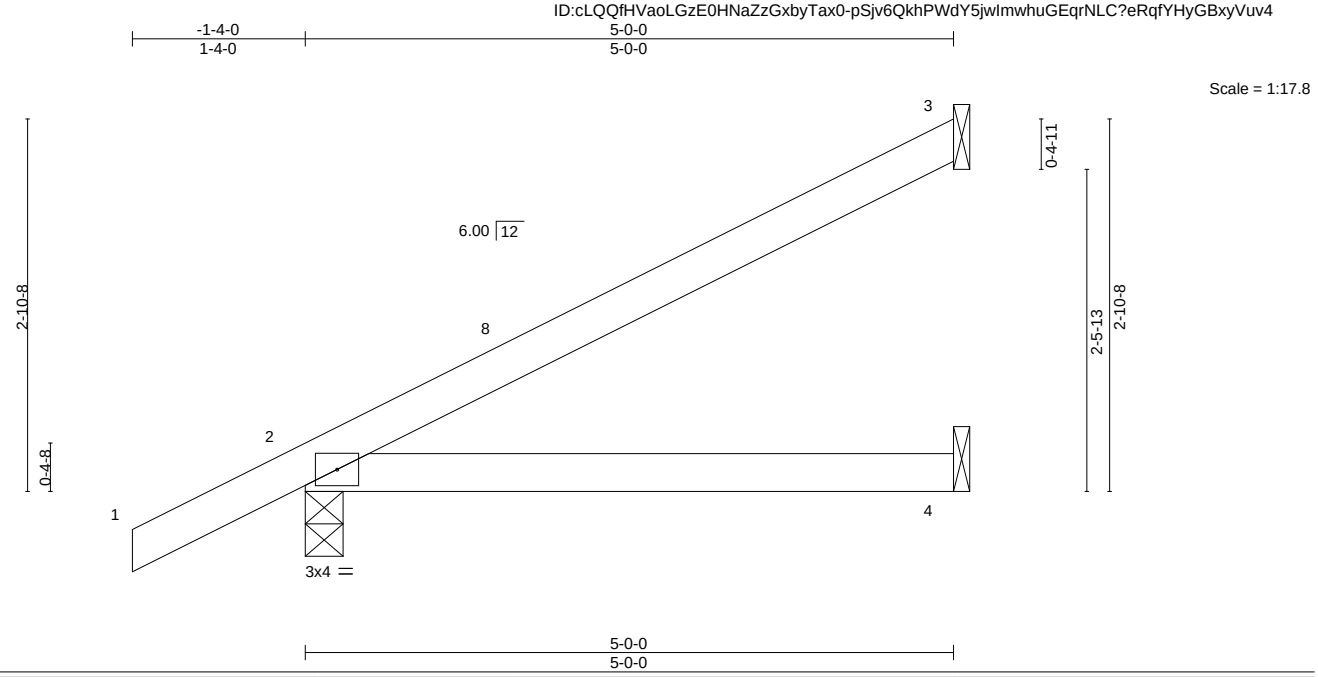

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 18 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=117(LC 12)
Max Uplift 3=-78(LC 12), 2=-73(LC 12), 4=-2(LC 12)
Max Grav 3=114(LC 1), 2=264(LC 1), 4=88(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 -1-4-0 to 1-8-0, Zone1 1-8-0 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 78 lb uplift at joint 3, 73 lb uplift at joint 2 and 2 lb uplift at joint 4.

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 7,2024

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

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200995
4260882	CJ05A	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. Mon Oct 7 05:38:49 2024 Page 1
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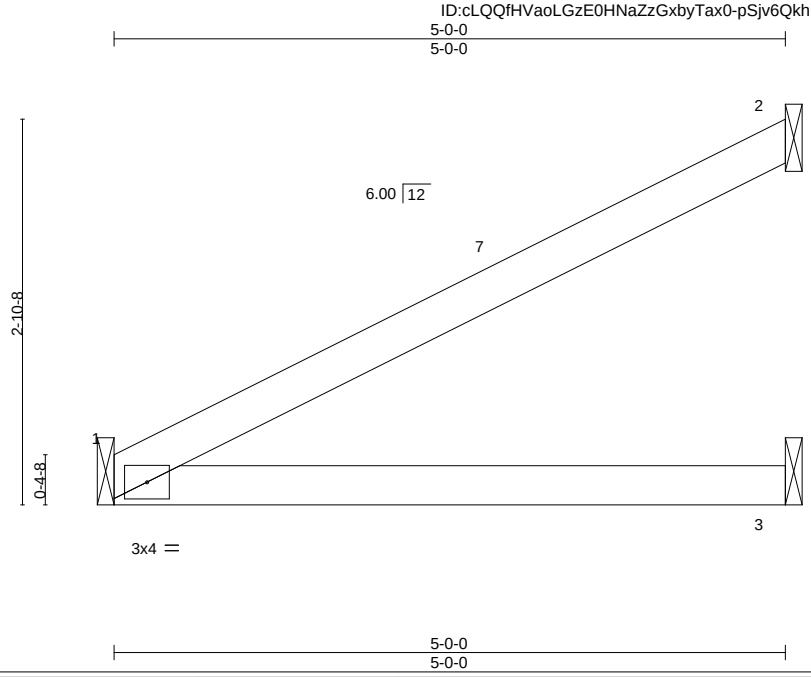

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.04	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	3-6	>975	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 16 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) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=95(LC 12)
Max Uplift 1=-35(LC 12), 2=-80(LC 12), 3=-4(LC 12)
Max Grav 1=183(LC 1), 2=118(LC 1), 3=90(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 0-0-0 to 3-0-0, Zone1 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 35 lb uplift at joint 1, 80 lb uplift at joint 2 and 4 lb uplift at joint 3.

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 7,2024

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

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200996
4260882	EJ01	JACK-PARTIAL	19	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:50 2024 Page 1
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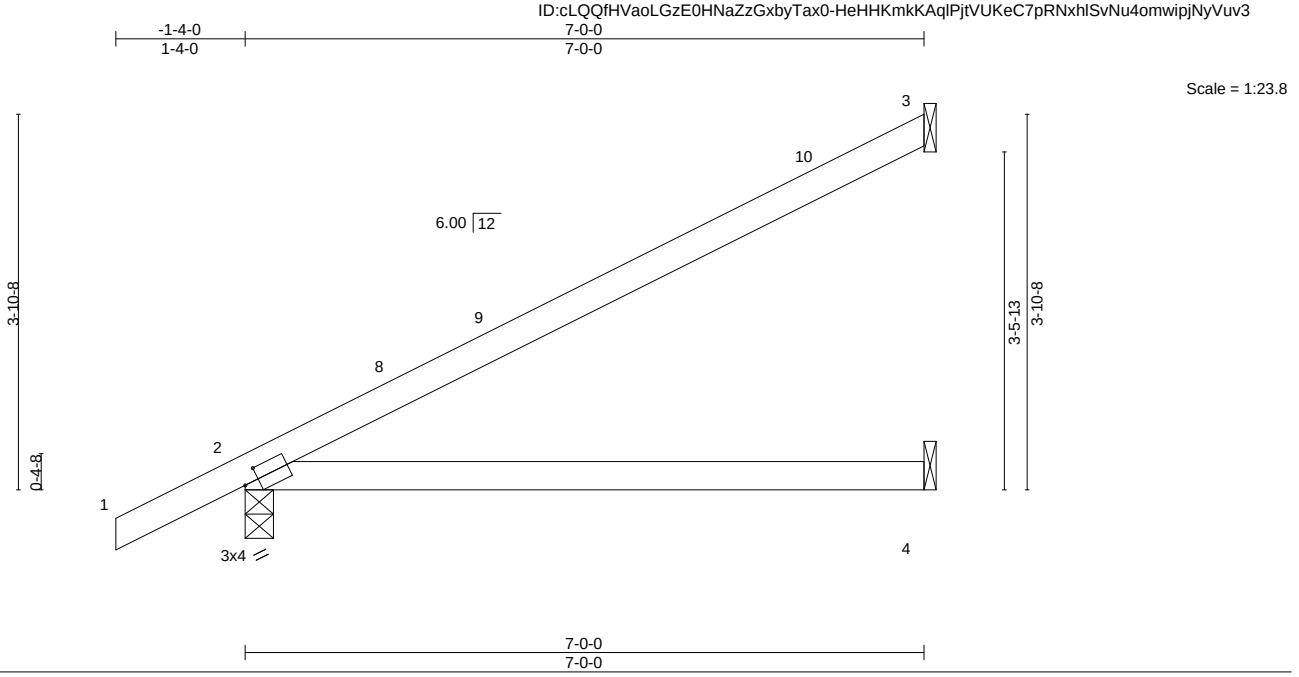

Plate Offsets (X,Y)-- [2:0-1-13,0-1-8]

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)	0.12	4-7	>718	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>383	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 24 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=150(LC 12)
Max Uplift 3=-100(LC 12), 2=-88(LC 12), 4=-2(LC 12)
Max Grav 3=164(LC 1), 2=336(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 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 100 lb uplift at joint 3, 88 lb uplift at joint 2 and 2 lb uplift at joint 4.

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 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200997
4260882	EJ02	Jack-Partial	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:50 2024 Page 1
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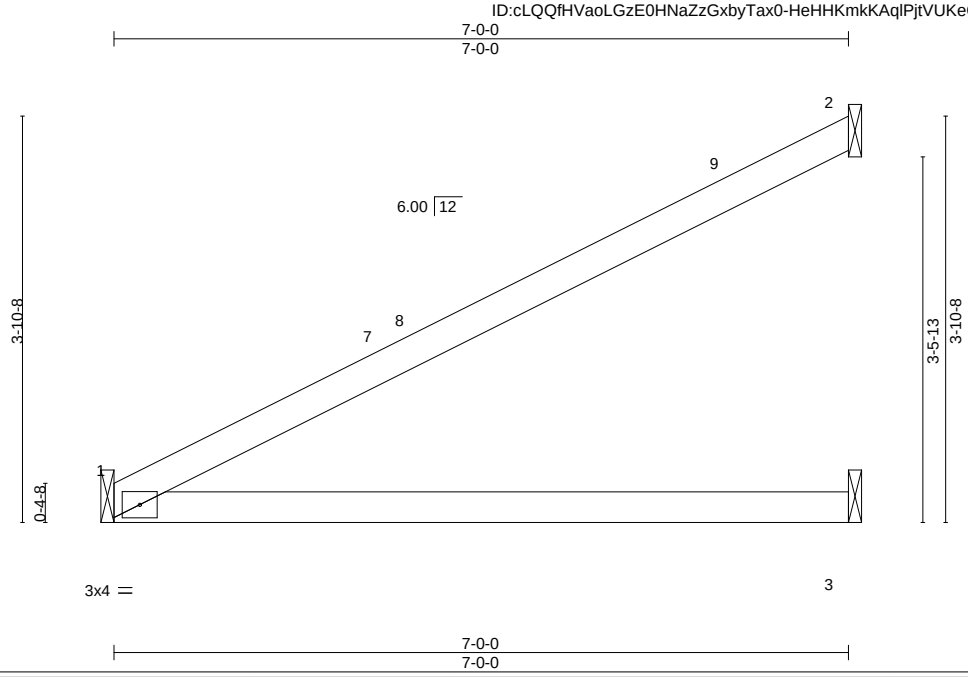

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.13	3-6	>645	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.23	3-6	>358	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 22 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) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=128(LC 12)
Max Uplift 1=-51(LC 12), 2=-102(LC 12), 3=-4(LC 12)
Max Grav 1=257(LC 1), 2=168(LC 1), 3=127(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 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 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 51 lb uplift at joint 1, 102 lb uplift at joint 2 and 4 lb uplift at joint 3.

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October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200998
4260882	EJ03	Jack-Partial	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:50 2024 Page 1
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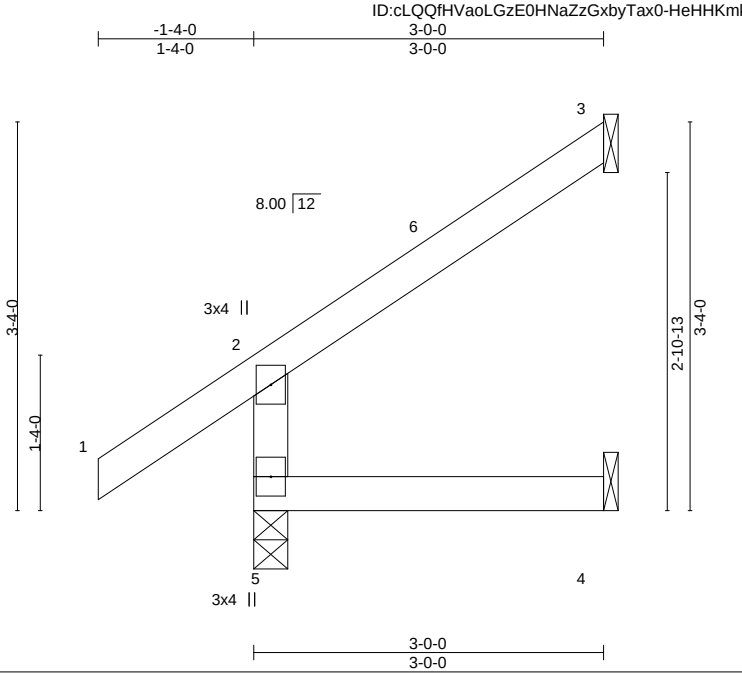

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 14 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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=104(LC 12)
Max Uplift 5=-20(LC 12), 3=-69(LC 12), 4=-29(LC 9)
Max Grav 5=204(LC 1), 3=67(LC 19), 4=52(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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; end vertical left exposed; 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 20 lb uplift at joint 5, 69 lb uplift at joint 3 and 29 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35200999
4260882	HJ04	Diagonal Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:51 2024 Page 1
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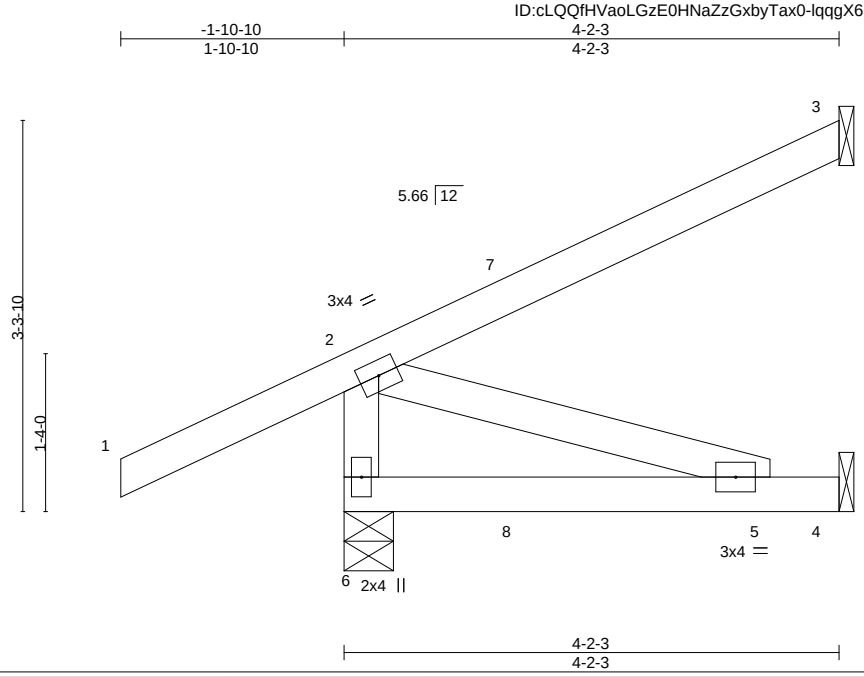

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	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 4-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-5-0, 3=Mechanical, 4=Mechanical
Max Horz 6=89(LC 8)
Max Uplift 6=-139(LC 8), 3=-74(LC 8), 4=-49(LC 5)
Max Grav 6=247(LC 1), 3=62(LC 35), 4=79(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; end vertical left exposed; 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 139 lb uplift at joint 6, 74 lb uplift at joint 3 and 49 lb uplift at joint 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 110 lb up at 1-6-1, and 66 lb down and 110 lb up at 1-6-1 on top chord, and 39 lb down and 31 lb up at 1-6-1, and 39 lb down and 31 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 4-6=-20
Concentrated Loads (lb)
Vert: 7=57(F=28, B=28)

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201000
4260882	HJ10	Diagonal Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:52 2024 Page 1
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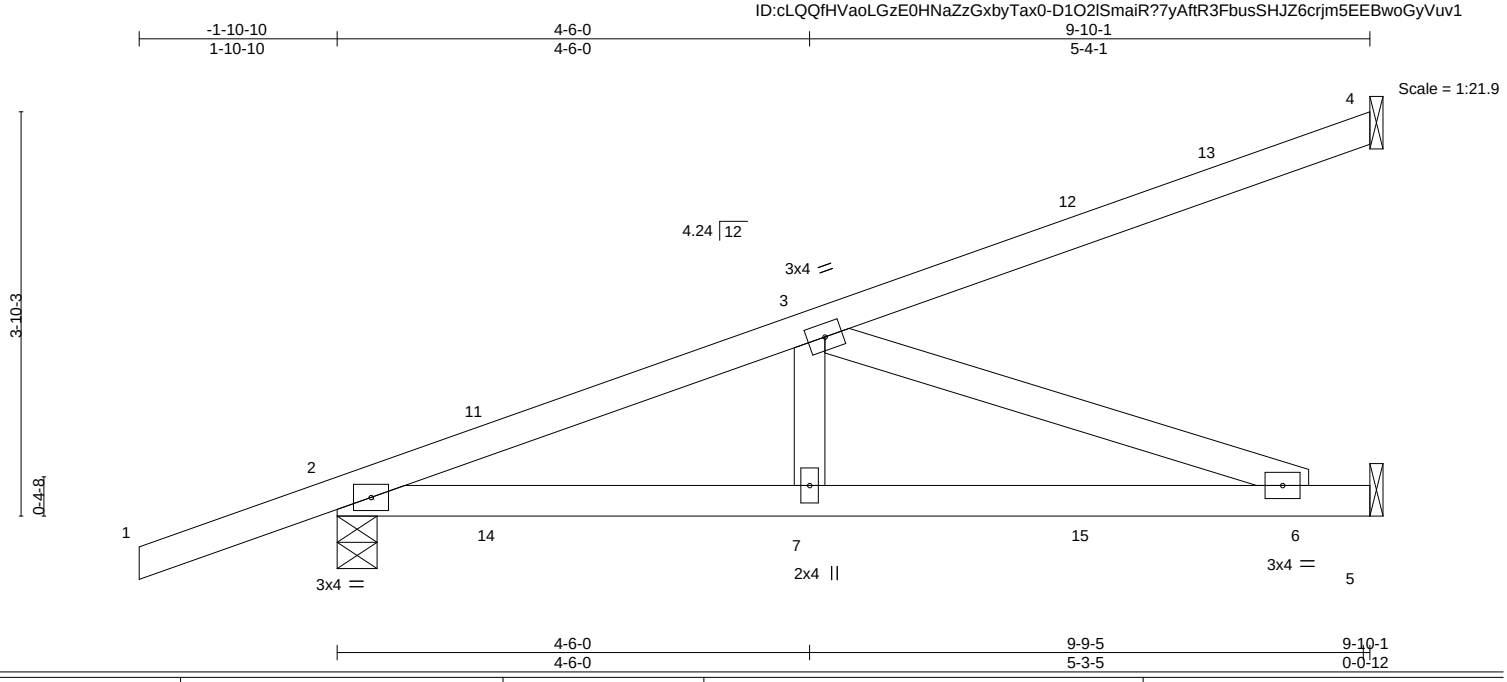

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.15	6-7	>802	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 43 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=162(LC 4)
Max Uplift 4=-94(LC 4), 2=-141(LC 4), 5=-83(LC 8)
Max Grav 4=155(LC 1), 2=416(LC 1), 5=294(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-707/232
BOT CHORD 2-7=-273/676, 6-7=-273/676
WEBS 3-7=0/300, 3-6=-717/289

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 94 lb uplift at joint 4, 141 lb uplift at joint 2 and 83 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 59 lb up at 1-6-1, 66 lb down and 59 lb up at 1-6-1, 24 lb down and 48 lb up at 4-4-0, 24 lb down and 48 lb up at 4-4-0, and 45 lb down and 88 lb up at 7-1-15, and 45 lb down and 88 lb up at 7-1-15 on top chord, and 15 lb down and 35 lb up at 1-6-1, 15 lb down and 35 lb up at 1-6-1, 22 lb down at 4-4-0, 22 lb down at 4-4-0, and 41 lb down and 17 lb up at 7-1-15, and 41 lb down and 17 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: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-10(F=-5, B=-5) 11=116(F=58, B=58) 12=-75(F=-37, B=-37) 15=-62(F=-31, B=-31)

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201001
4260882	T03	COMMON	10	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:52 2024 Page 1
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-1-4-0 | 5-8-5 | 11-0-0 | 16-3-11 | 22-0-0 | 23-4-0
1-4-0 | 5-8-5 | 5-3-11 | 5-3-11 | 5-8-5 | 1-4-0

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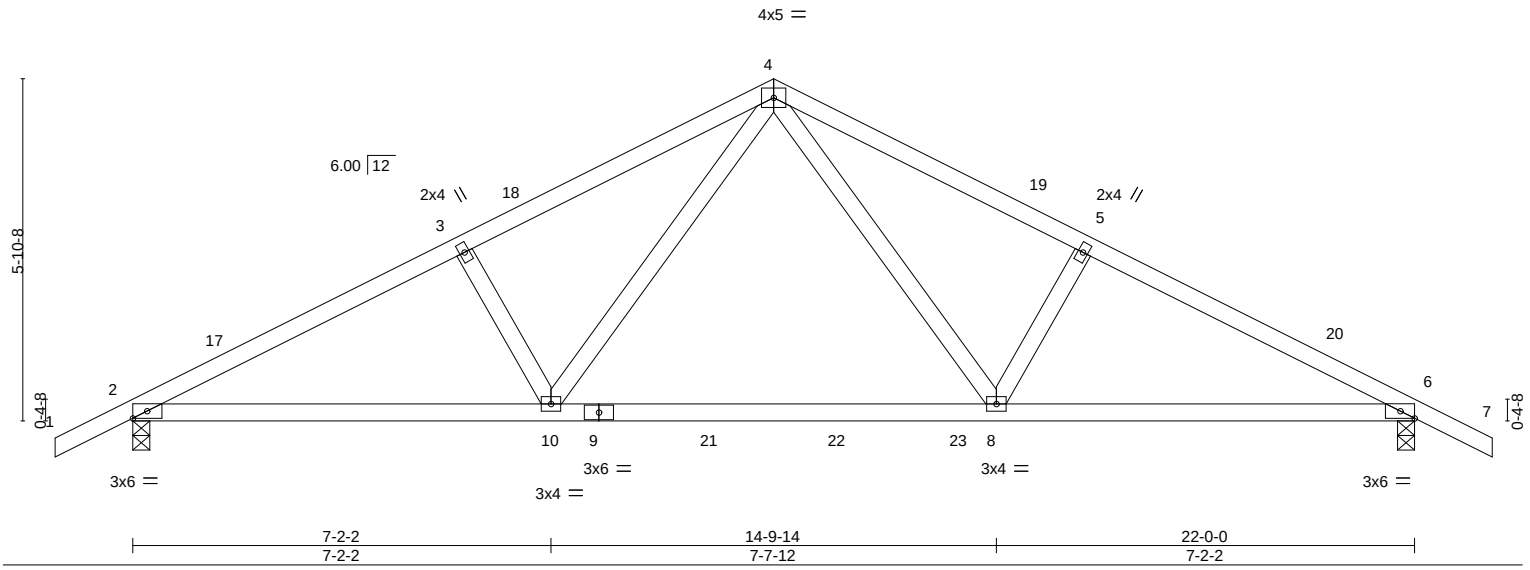

7-2-2 | 14-9-14 | 22-0-0
7-2-2 | 7-7-12 | 7-2-2

Plate Offsets (X,Y)-- [6:0-2-15,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	0.38	Vert(LL)	-0.24	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.46	8-10	>579	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 102 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-14 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=103(LC 12)
Max Uplift 2=-313(LC 12), 6=-309(LC 13)
Max Grav 2=1131(LC 2), 6=1121(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1978/527, 3-4=-1869/542, 4-5=-1846/531, 5-6=-1954/516
BOT CHORD 2-10=-482/1750, 8-10=-232/1147, 6-8=-396/1705
WEBS 4-8=-258/840, 5-8=-273/203, 4-10=-272/880, 3-10=-272/203

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 23-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 2 and 309 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, 10-11=-20, 10-23=-80(F=-60), 14-23=-20

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Date:

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW
4260882	T03G	Common Supported Gable	1	1	T35201002

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:53 2024 Page 1
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1-4-0 | 11-0-0 | 11-0-0 | 1-4-0

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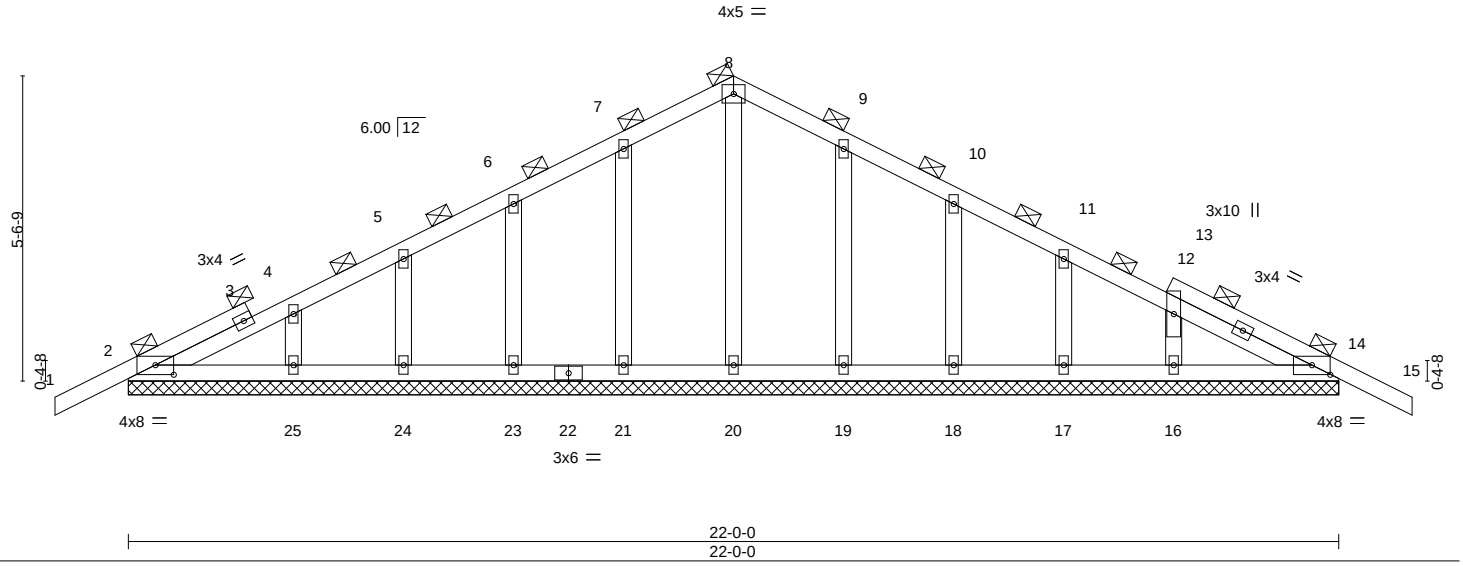

22-0-0
22-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [14:0-4-0,0-2-1]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 118 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=97(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16.
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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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201003
4260882	T04	ROOF SPECIAL	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:53 2024 Page 1
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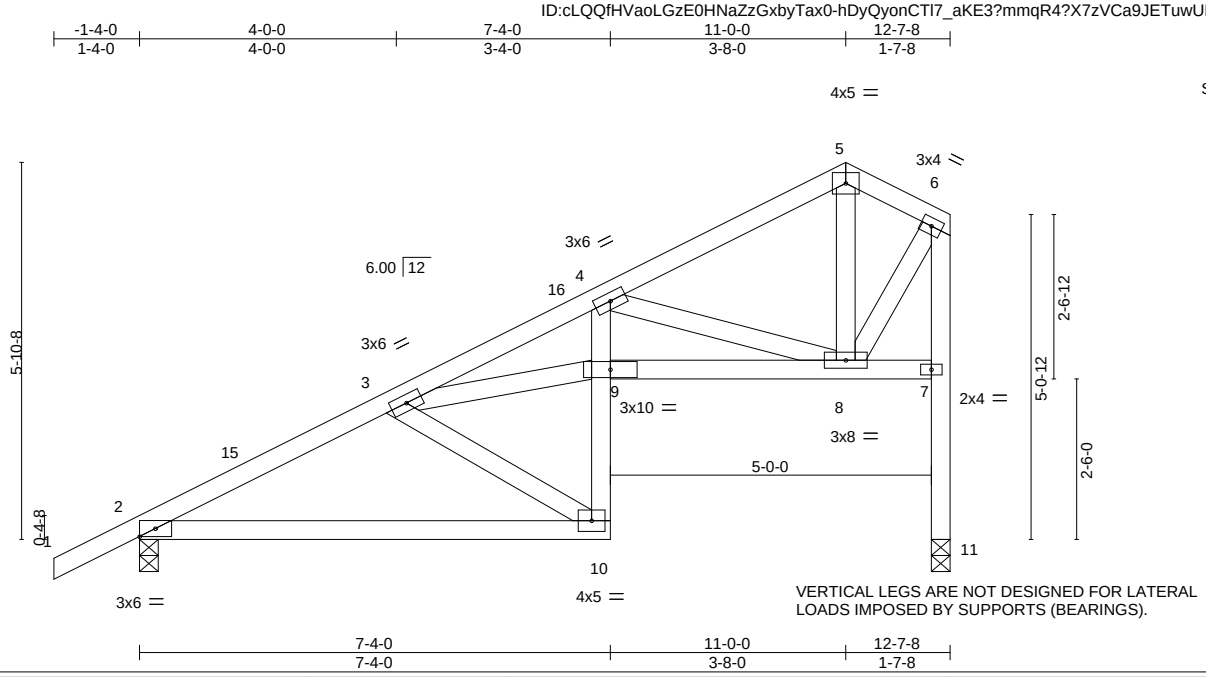

VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

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)	-0.08	10-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.17	10-14	>899	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 77 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-10: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
6-11: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-7-3 oc bracing: 8-9.

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=218(LC 12)
Max Uplift 2=-144(LC 12), 11=-167(LC 12)
Max Grav 2=538(LC 1), 11=458(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-694/165, 3-4=-1317/540, 4-5=-289/100, 5-6=-251/119, 7-11=-458/207, 6-7=-464/208
BOT CHORD 2-10=-294/603, 9-10=-152/394, 4-9=-225/590, 8-9=-608/1217
WEBS 3-10=-639/328, 3-9=-567/1092, 4-8=-1044/532, 6-8=-181/401

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone3 11-0-0 to 12-5-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 11=167.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW
4260882	T05	Half Hip Girder	1	2	T35201004
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:56 2024 Page 1
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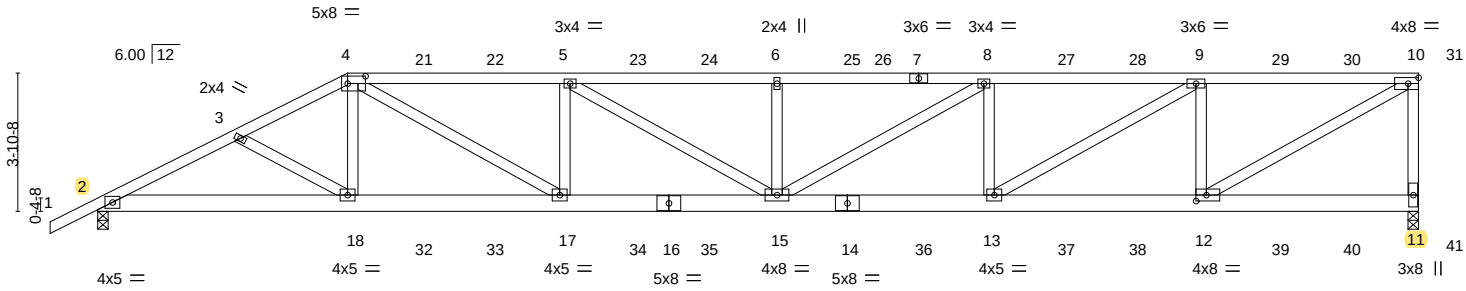
Scale: 3/16"=1'



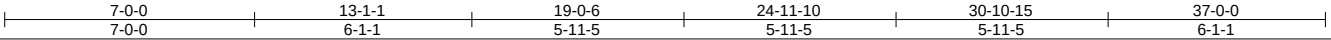


Plate Offsets (X,Y)-- [4:0-6-0,0-2-8], [12:0-3-8,0-2-0]

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	0.91	Vert(LL)	0.35	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.60	15-17	>737	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 452 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-8 oc bracing.

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=158(LC 8)
Max Uplift 11=-1207(LC 5), 2=-1023(LC 8)
Max Grav 11=3112(LC 1), 2=2776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5678/2109, 3-4=-5534/2069, 4-5=-7352/2810, 5-6=-7964/3057, 6-8=-7964/3057, 8-9=-6995/2696, 9-10=-4399/1698, 10-11=-2912/1196
BOT CHORD 2-18=-1967/5034, 17-18=-1889/4961, 15-17=-2810/7352, 13-15=-2696/6995, 12-13=-1698/4399
WEBS 4-18=-134/729, 4-17=-1132/2805, 5-17=-1084/574, 5-15=-305/752, 6-15=-636/379, 8-15=-482/1124, 8-13=-1210/593, 9-13=-1158/3012, 9-12=-2229/1008, 10-12=-1933/5024

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1207, 2=1023.

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Date:

October 7,2024

Continued on page 2

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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 103 lb up at 7-0-0, 110 lb down and 103 lb up at 9-0-12, 110 lb down and 103 lb up at 11-0-12, 110 lb down and 103 lb up at 13-0-12, 110 lb down and 103 lb up at 15-0-12, 110 lb down and 103 lb up at 17-0-12, 110 lb down and 103 lb up at 19-0-12, 110 lb down and 102 lb up at 21-0-12, 110 lb down and 103 lb up at 23-0-12, 110 lb down and 103 lb up at 25-0-12, 110 lb down and 103 lb up at 27-0-12, 110 lb down and 103 lb up at 29-0-12, 110 lb down and 103 lb up at 31-0-12, 110 lb down and 103 lb up at 33-0-12, and 110 lb down and 103 lb up at 35-0-12, and 126 lb down and 102 lb up at 36-5-4 on top chord, and 323 lb down and 133 lb up at 7-0-0, 86 lb down and 22 lb up at 9-0-12, 86 lb down and 22 lb up at 11-0-12, 86 lb down and 22 lb up at 13-0-12, 86 lb down and 22 lb up at 15-0-12, 86 lb down and 22 lb up at 17-0-12, 86 lb down and 22 lb up at 19-0-12, 86 lb down and 22 lb up at 21-0-12, 86 lb down and 22 lb up at 23-0-12, 86 lb down and 22 lb up at 25-0-12, 86 lb down and 22 lb up at 27-0-12, 86 lb down and 22 lb up at 29-0-12, 86 lb down and 22 lb up at 31-0-12, 86 lb down and 22 lb up at 33-0-12, and 86 lb down and 22 lb up at 35-0-12, and 98 lb down and 16 lb up at 36-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 2-11=-20

Concentrated Loads (lb)

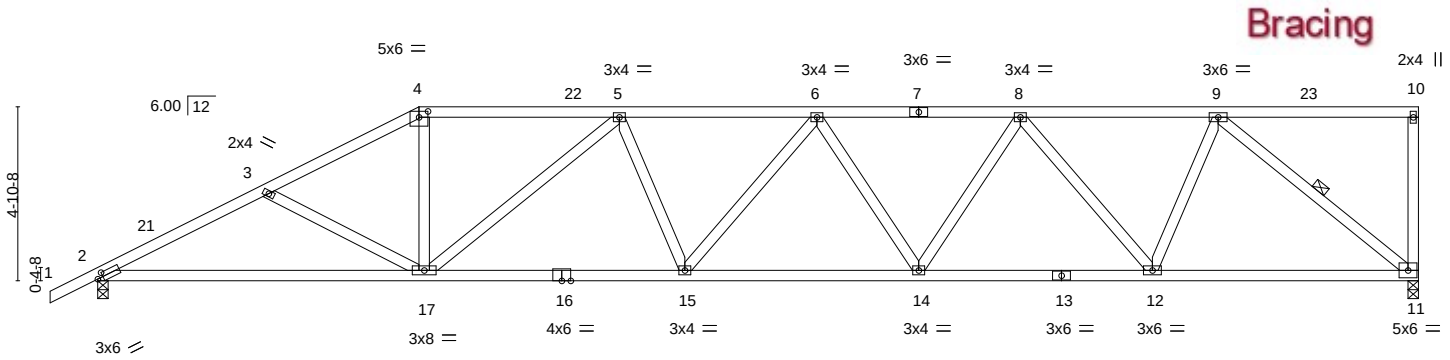
Vert: 4=-110(B) 7=-110(B) 18=-320(B) 17=-65(B) 5=-110(B) 6=-110(B) 15=-65(B) 8=-110(B) 13=-65(B) 9=-110(B) 12=-65(B) 14=-65(B) 21=-110(B) 22=-110(B) 23=-110(B) 24=-110(B) 25=-110(B) 27=-110(B) 28=-110(B) 29=-110(B) 30=-110(B) 31=-126(B) 32=-65(B) 33=-65(B) 34=-65(B) 35=-65(B) 36=-65(B) 37=-65(B) 38=-65(B) 39=-65(B) 40=-65(B) 41=-71(B)

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201005
4260882	T06	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:56 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-6oeZaqp4mgVZRozeguJX3id1WARpnQzg9s98w1yVuuz

-1-4-0	4-9-8	9-0-0	14-7-6	20-1-13	25-10-3	31-4-10	37-0-0
1-4-0	4-9-8	4-2-8	5-7-6	5-6-7	5-8-6	5-6-8	5-7-6

Scale: 3/16"=1'



9-0-0	16-5-6	23-0-0	29-6-9	37-0-0
9-0-0	7-5-6	6-6-10	6-6-9	7-5-7

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [4:0-3-0,0-2-0]

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	0.36	Vert(LL)	-0.20	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.40	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 200 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 3-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-6 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=196(LC 12)
Max Uplift 11=-436(LC 9), 2=-425(LC 12)
Max Grav 11=1362(LC 1), 2=1437(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2599/768, 3-4=-2347/676, 4-5=-2073/643, 5-6=-2709/832, 6-8=-2562/796, 8-9=-1752/543
BOT CHORD 2-17=-803/2294, 15-17=-829/2645, 14-15=-871/2732, 12-14=-745/2315, 11-12=-461/1411
WEBS 3-17=-278/187, 4-17=-175/778, 5-17=-819/321, 6-14=-321/208, 8-14=-165/468, 8-12=-897/322, 9-12=-219/913, 9-11=-1816/597

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 36-10-4 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 100 lb uplift at joint(s) except (jt=lb) 11=436, 2=425.

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW
4260882	T07	HIP	1	1	T35201006

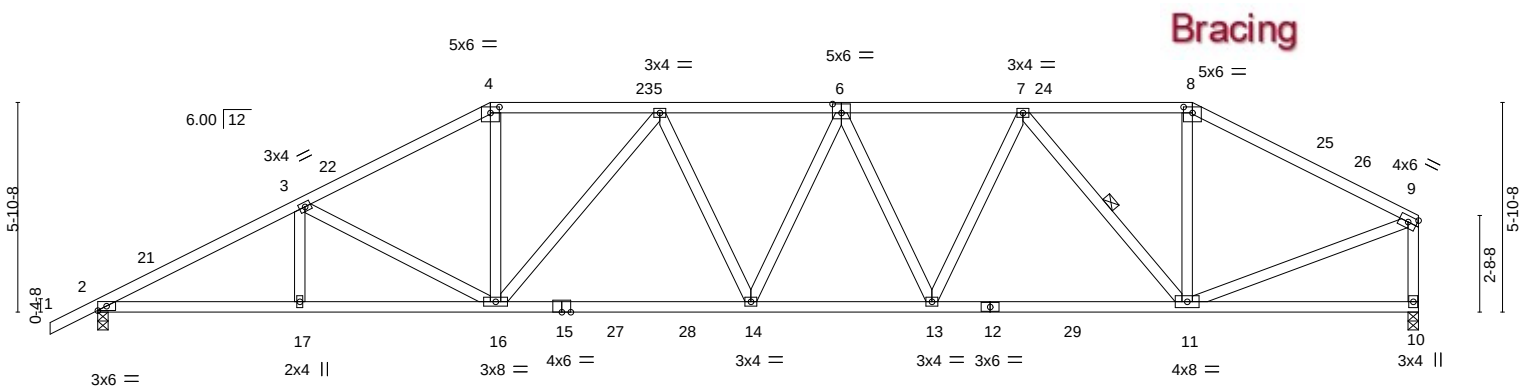
Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:57 2024 Page 1

ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-a_Cxo9qjX_dQ2yYqEcqmbwA8hamMWxzqNWuhSTyVuuy

-1-4-0	5-7-15	11-0-0	15-9-0	20-10-0	25-11-0	30-8-0	37-0-0
1-4-0	5-7-15	5-4-1	4-9-0	5-1-0	5-1-0	4-9-0	6-4-0

Scale: 3/16"=1'



5-7-15	11-0-0	18-3-9	23-4-7	30-8-0	37-0-0
5-7-15	5-4-1	7-3-9	5-0-14	7-3-9	6-4-0

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

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	0.58	Vert(LL)	-0.24	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.43	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 212 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 3-3-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-11-6 oc bracing.
WEBS	1 Row at midpt 7-11

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=167(LC 12)
Max Uplift 2=-413(LC 12), 10=-344(LC 13)
Max Grav 2=1543(LC 2), 10=1491(LC 2)

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

TOP CHORD	2-3=-2842/717, 3-4=-2396/618, 4-5=-2112/594, 5-6=-2485/643, 6-7=-2310/595, 7-8=-1449/394, 8-9=-1670/388, 9-10=-1399/358
BOT CHORD	2-17=-722/2500, 16-17=-722/2500, 14-16=-614/2417, 13-14=-618/2449, 11-13=-517/2067
WEBS	3-16=-474/226, 4-16=-149/844, 5-16=-552/235, 6-13=-366/180, 7-13=-142/599, 7-11=-1004/329, 8-11=-89/539, 9-11=-326/1486

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 30-8-0, Zone2 30-8-0 to 34-10-15, Zone1 34-10-15 to 36-10-4 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=413, 10=344.

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 7,2024

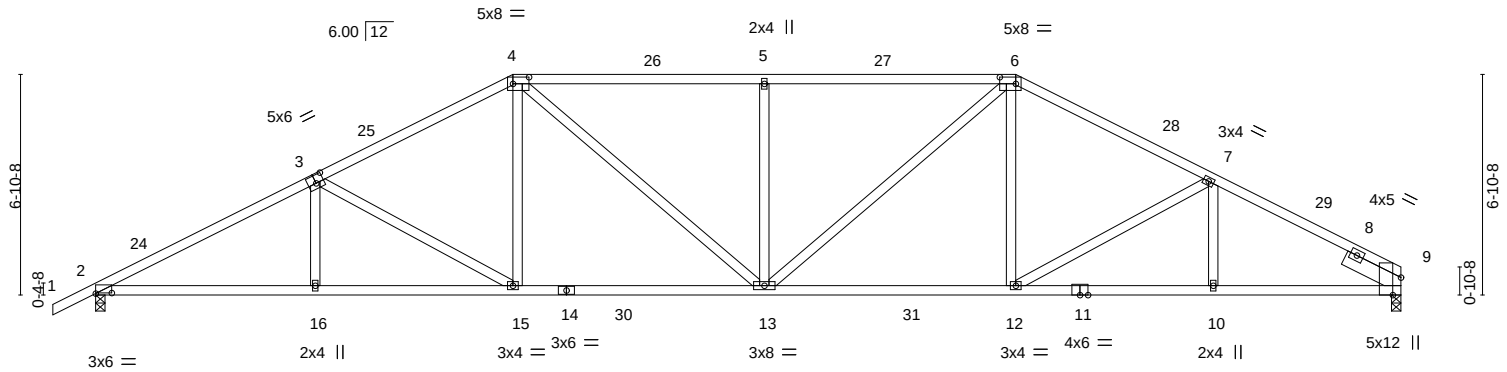
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201007
4260882	T08	HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:58 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-2AmJ?VrLIHmHg661oJL?87iEs_5mFN8zcAeF_wyVuux

1-4-0	6-10-2	13-0-0	20-10-0	28-8-0	34-9-13	40-8-0
1-4-0	6-10-2	6-1-14	7-10-0	7-10-0	6-1-14	5-10-3

Scale = 1:71.8



6-10-2	13-0-0	20-10-0	28-8-0	34-9-13	40-8-0
6-10-2	6-1-14	7-10-0	7-10-0	6-1-14	5-10-3

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [3:0-3-0,0-3-0], [4:0-6-0,0-2-8], [6:0-6-0,0-2-8], [9:0-6-9,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	0.94	Vert(LL)	-0.30	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.52	13-15	>943	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 219 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	6-9: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	9-11: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 6-10-10 oc bracing.

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=142(LC 12)
Max Uplift 9=-394(LC 13), 2=-436(LC 12)
Max Grav 9=1655(LC 2), 2=1713(LC 2)

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

TOP CHORD	2-3=-3162/753, 3-4=-2615/637, 4-5=-2651/617, 5-6=-2651/617, 6-7=-2495/605, 7-9=-2720/656
BOT CHORD	2-16=-716/2778, 15-16=-716/2781, 13-15=-484/2291, 12-13=-358/2204, 10-12=-510/2355, 9-10=-510/2355
WEBS	3-16=0/255, 3-15=-586/266, 4-15=-85/569, 4-13=-214/573, 5-13=-484/274, 6-13=-229/674, 6-12=-49/437

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 28-8-0, Zone2 28-8-0 to 32-10-15, Zone1 32-10-15 to 40-8-0 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) 9=394, 2=436.

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

October 7,2024

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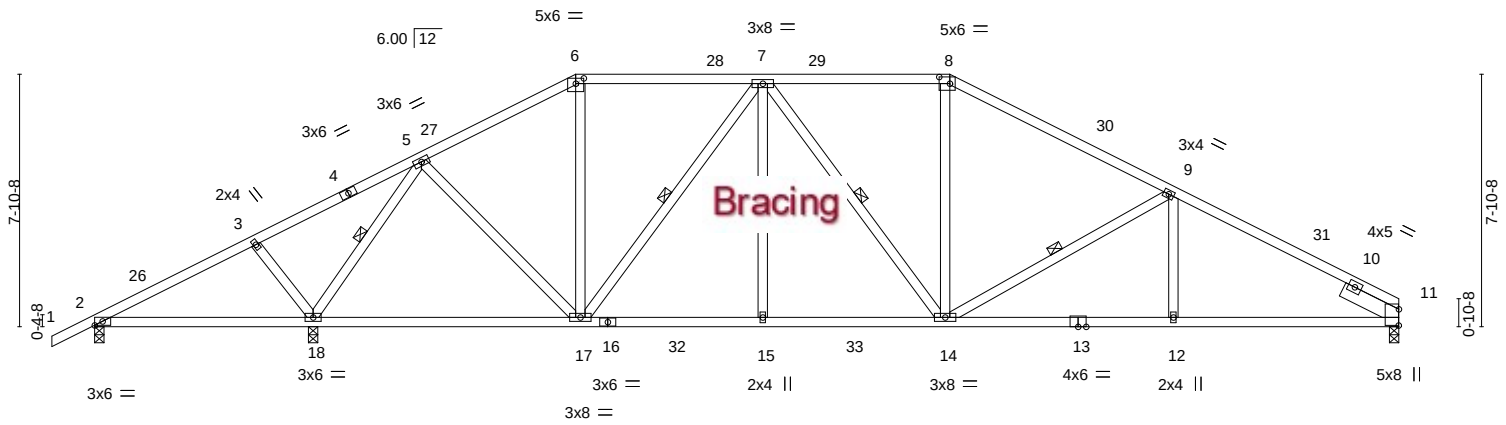
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201008
4260882	T09	HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:58 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-2AmJ?VrLIHmHg661oJL?87iH?_8CFOMzcAeF_wyVuux

1-4-0	5-0-5	10-2-4	15-0-0	20-10-0	26-8-0	33-7-10	40-8-0
1-4-0	5-0-5	5-1-15	4-9-12	5-10-0	5-10-0	6-11-11	7-0-6

Scale = 1:71.8



6-9-12	15-0-0	20-10-0	26-8-0	33-7-10	40-8-0
6-9-12	8-2-4	5-10-0	5-10-0	6-11-11	7-0-6

Plate Offsets (X,Y)-- [6:0-3-0,0-2-0], [8:0-4-0,0-2-8], [11:0-6-1,0-0-1]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.17	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.30	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 233 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 11-13: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-18, 7-17, 7-14, 9-14

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 18=0-3-8
Max Horz 2=158(LC 12)
Max Uplift 11=-339(LC 13), 2=-161(LC 28), 18=-492(LC 12)
Max Grav 11=1297(LC 2), 2=63(LC 25), 18=2097(LC 2)

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

TOP CHORD	2-3=-130/655, 3-5=-147/801, 5-6=-1092/296, 6-7=-936/299, 7-8=-1409/463, 8-9=-1635/461, 9-11=-2071/553
BOT CHORD	2-18=-559/186, 17-18=-116/391, 15-17=-225/1365, 14-15=-225/1365, 12-14=-410/1788, 11-12=-410/1788
WEBS	3-18=-281/190, 5-18=-1915/454, 5-17=-118/816, 6-17=-69/274, 7-17=-749/220, 7-15=0/285, 8-14=-59/426, 9-14=-471/251

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 26-8-0, Zone2 26-8-0 to 30-10-15, Zone1 30-10-15 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) 11=339, 2=161, 18=492.

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 7,2024

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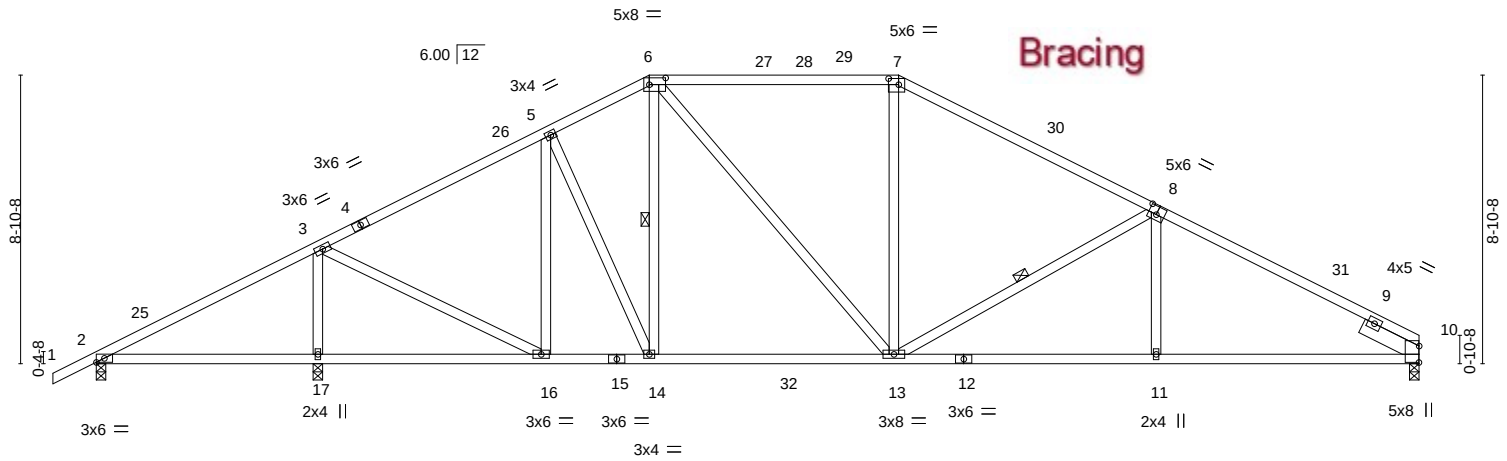
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201009
4260882	T10	HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:38:59 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-WNJhDrrz3bu8IFhDL1tEgLFQ2NTG_qi7rqNoXMyVuuw

1-4-0	6-9-12	13-9-14	17-0-0	24-8-0	32-7-0	40-8-0
1-4-0	6-9-12	7-0-2	3-2-2	7-8-0	7-11-0	8-1-0

Scale = 1:70.8



6-9-12	13-9-14	17-0-0	24-8-0	32-7-0	40-8-0
6-9-12	7-0-2	3-2-2	7-8-0	7-11-0	8-1-0

Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [7:0-3-12,0-2-4], [8:0-3-0,0-3-0], [10:0-6-1,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	0.08	17-20	>981	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.32	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 231 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 7-8,8-10: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-12: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-14, 8-13

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 10=0-3-8
Max Horz 2=175(LC 12)
Max Uplift 2=-89(LC 8), 17=-461(LC 12), 10=-344(LC 13)
Max Grav 2=165(LC 25), 17=1939(LC 2), 10=1309(LC 2)

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

TOP CHORD	2-3=-118/493, 3-5=-1123/306, 5-6=-1205/369, 6-7=-1304/450, 7-8=-1532/439, 8-10=-2079/559
BOT CHORD	2-17=-370/137, 16-17=-370/137, 14-16=-187/935, 13-14=-156/1047, 11-13=-406/1797, 10-11=-407/1794
WEBS	3-17=-1641/486, 3-16=-213/1445, 5-16=-503/131, 5-14=-73/347, 6-13=-168/446, 7-13=-18/341, 8-13=-592/304, 8-11=0/284

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 24-8-0, Zone2 24-8-0 to 28-10-15, Zone1 28-10-15 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) 2 except (jt=lb) 17=461, 10=344.

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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 7,2024

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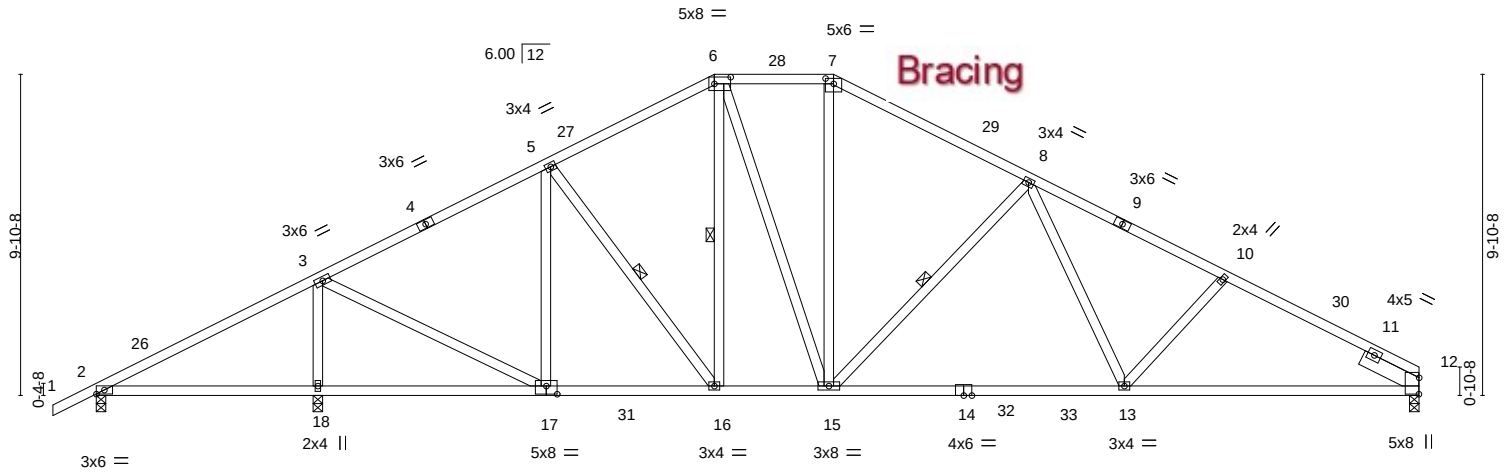
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201010
4260882	T11	HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:00 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-_Zt3QBsbpv0_vPGPvkOUDYoZ6nnojHeG4U7L3oyVuuv

1-4-0	6-9-12	13-9-14	19-0-0	22-8-0	28-7-15	34-7-9	40-8-0
1-4-0	6-9-12	7-0-2	5-2-2	3-8-0	5-11-15	5-11-10	6-0-7

Scale = 1:70.8



6-9-12	13-9-14	19-0-0	22-8-0	31-7-4	40-8-0
6-9-12	7-0-2	5-2-2	3-8-0	8-11-4	9-0-12

Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [7:0-3-0,0-2-0], [12:0-6-1,0-0-1], [17:0-4-0,0-3-0]

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	0.96	Vert(LL)	-0.30	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.50	13-15	>809	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 245 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	12-14: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 5-16, 6-16, 8-15

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 12=0-3-8
Max Horz 2=192(LC 12)
Max Uplift 2=-88(LC 8), 18=-477(LC 12), 12=-336(LC 13)
Max Grav 2=175(LC 25), 18=1967(LC 2), 12=1326(LC 2)

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

TOP CHORD	2-3=-155/540, 3-5=-1131/298, 5-6=-1201/380, 6-7=-1152/405, 7-8=-1352/407, 8-10=-1982/535, 10-12=-2112/559
BOT CHORD	2-18=-422/186, 17-18=-422/186, 16-17=-189/944, 15-16=-130/1019, 13-15=-266/1557, 12-13=-421/1820
WEBS	3-18=-1680/500, 3-17=-236/1498, 5-17=-472/151, 6-15=-147/455, 7-15=-79/382, 8-15=-607/307, 8-13=-82/466

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 19-0-0, Zone3 19-0-0 to 22-8-0, Zone2 22-8-0 to 26-10-15, Zone1 26-10-15 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) 2 except (jt=lb) 18=477, 12=336.

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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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201011
4260882	T13	COMMON	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:01 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-SlRSdXtDaC8rXZrcTSvjlmKnIBA4SjgQI8svbEyVuuu

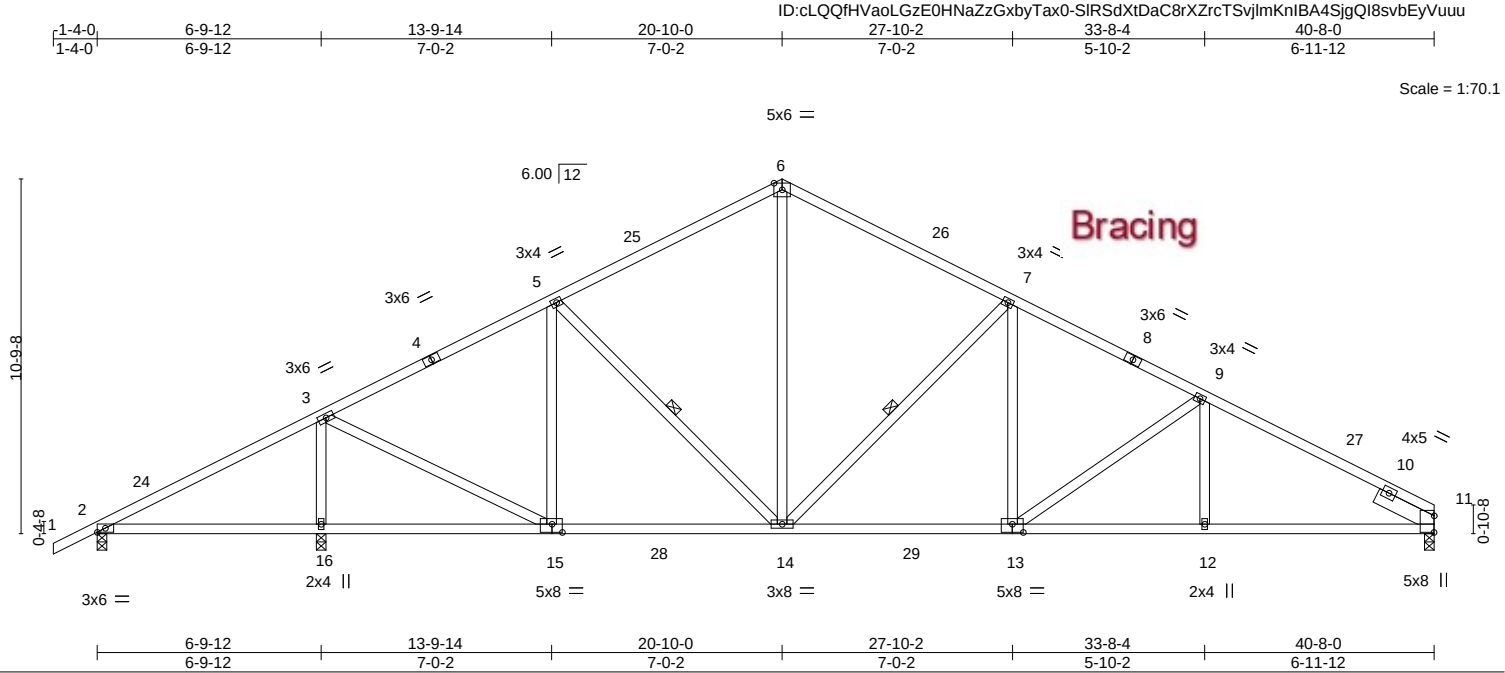

Plate Offsets (X,Y)-- [11:0-6-1,0-0-1], [13:0-4-0,0-3-0], [15:0-3-12,0-3-0]

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	0.74	Vert(LL)	0.09	16-19	>935	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.26	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 11-13: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-14, 7-14

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 11=0-3-8
Max Horz 2=207(LC 12)
Max Uplift 2=-106(LC 8), 16=-469(LC 12), 11=-334(LC 13)
Max Grav 2=177(LC 25), 16=1986(LC 2), 11=1321(LC 2)

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

TOP CHORD	2-3=-151/586, 3-5=-1140/315, 5-6=-1214/400, 6-7=-1215/373, 7-9=-1761/483, 9-11=-2096/537
BOT CHORD	2-16=-460/175, 15-16=-460/175, 14-15=-209/967, 13-14=-236/1548, 12-13=-392/1805, 11-12=-392/1805
WEBS	3-16=-1703/490, 3-15=-237/1535, 5-15=-472/153, 6-14=-193/736, 7-14=-757/331, 7-13=-69/469, 9-13=-331/190

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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=106, 16=469, 11=334.

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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 7,2024

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

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201012
4260882	T14	COMMON	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:01 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-SlRSdXtDaC8rXZrcTSvjlmKplBD6SmTQI8svbEyVuuu

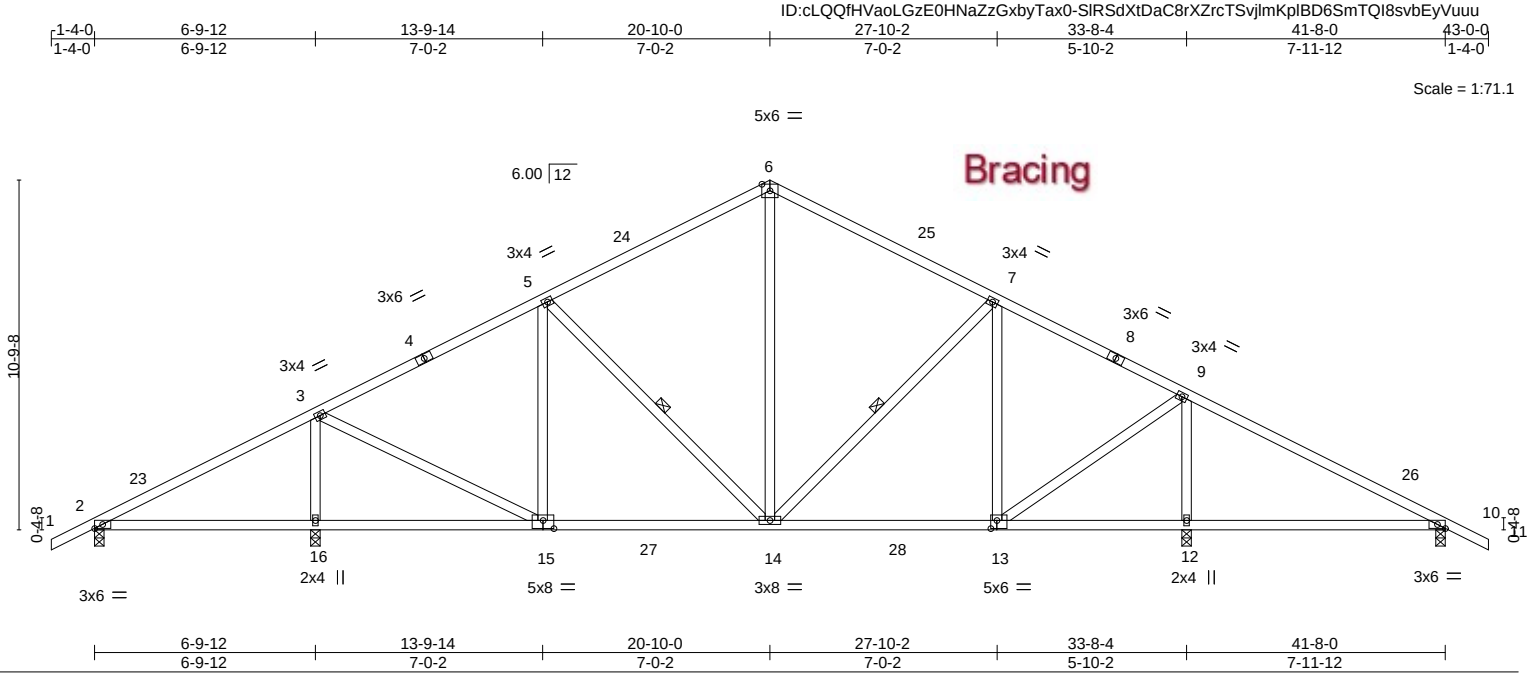

Plate Offsets (X,Y)-- [10:0-2-15,Edge], [13:0-2-4,0-3-0], [15:0-4-0,0-3-0]

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	0.58	Vert(LL)	0.16	12-22	>586	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.26	12-22	>372	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 231 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 5-5-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-14, 7-14

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=185(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-117(LC 8), 16=-384(LC 12), 12=-327(LC 13), 10=-140(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=296(LC 25), 16=1435(LC 2), 12=1470(LC 2), 10=357(LC 26)

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

TOP CHORD	3-5=-988/279, 5-6=-861/321, 6-7=-858/294, 7-9=-864/284
BOT CHORD	14-15=-168/855, 13-14=-50/715
WEBS	3-16=-1157/406, 3-15=-144/928, 6-14=-120/412, 7-13=-321/108, 9-13=-116/861, 9-12=-1178/339

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 43-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 117 lb uplift at joint 2, 384 lb uplift at joint 16, 327 lb uplift at joint 12 and 140 lb uplift at joint 10.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201013
4260882	T15	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. Mon Oct 7 05:39:02 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-wy?qrturLWGi9jQo19QyIzt0jbZeB9IZXocS7hyVuut

1-4-0	7-4-0	13-11-8	20-10-0	27-10-2	31-6-8	36-6-0	41-8-0	43-0-0
1-4-0	7-4-0	6-7-8	6-10-8	7-0-2	3-8-6	4-11-8	5-2-0	1-4-0

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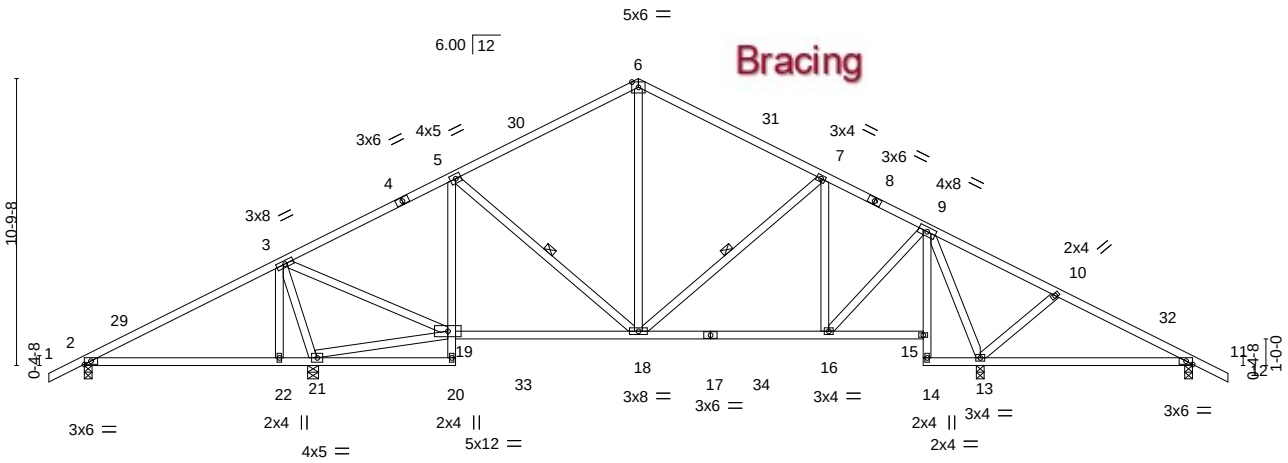

7-4-0	8-7-4	13-11-8	20-10-0	27-10-2	31-6-8	33-8-4	41-8-0
7-4-0	1-3-4	5-4-4	6-10-8	7-0-2	3-8-6	2-1-12	7-11-12

Plate Offsets (X,Y)-- [11:0-2-15,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	0.50	Vert(LL)	0.10	22-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.52	Vert(CT)	-0.18	22-25	>586	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.69	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 251 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-20,9-14: 2x4 SP No.3
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 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-18

REACTIONS. All bearings 0-3-8 except (jt=length) 21=0-4-15.
(lb) - Max Horz 2=185(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-131(LC 8), 11=-131(LC 8), 21=-375(LC 12), 13=-337(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=354(LC 25), 21=1391(LC 2), 13=1626(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-741/236, 5-6=-723/289, 6-7=-721/261, 7-9=-646/266, 9-10=-6/534, 10-11=0/360
BOT CHORD 5-19=-323/128, 18-19=-134/663, 16-18=-31/557
WEBS 3-22=-203/252, 3-21=-1334/433, 19-21=-355/170, 3-19=-206/1051, 6-18=-90/320, 7-16=-374/103, 9-16=-90/768, 9-13=-1233/247, 10-13=-313/199

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 43-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 131 lb uplift at joint 2, 131 lb uplift at joint 11, 375 lb uplift at joint 21 and 337 lb uplift at joint 13.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 7,2024

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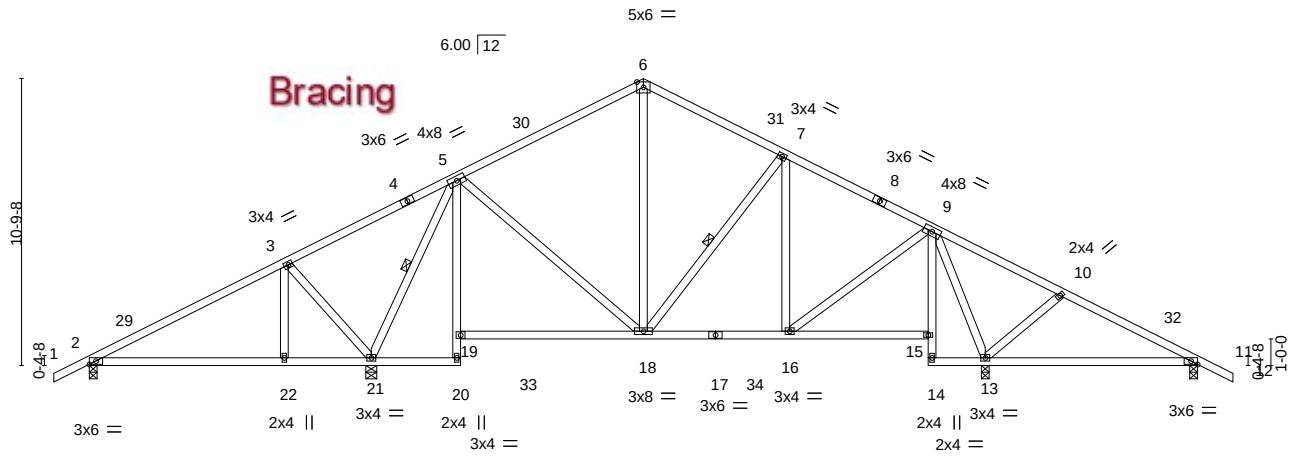
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201014
4260882	T16	ROOF SPECIAL	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:03 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-O8ZC2DuT6qOZmt?_asxBrBQAj?vDwdEimSL?g7yVuus

1-4-0	7-4-0	13-11-8	20-10-0	26-2-4	31-6-8	36-6-0	41-8-0	43-0-0
1-4-0	7-4-0	6-7-8	6-10-8	5-4-4	5-4-4	4-11-8	5-2-0	1-4-0

Scale = 1:86.6



7-4-0	10-7-4	13-11-8	20-10-0	26-2-4	31-6-8	33-8-4	41-8-0
7-4-0	3-3-4	3-4-4	6-10-8	5-4-4	5-4-4	2-1-12	7-11-12

Plate Offsets (X,Y)-- [11:0-2-15,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	0.55	Vert(LL)	0.11	22-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.18	22-25	>711	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 248 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-20,9-14: 2x4 SP No.3
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 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-21, 7-18

REACTIONS. All bearings 0-3-8 except (jt=length) 21=0-4-15.
(lb) - Max Horz 2=185(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-186(LC 8), 11=-135(LC 8), 21=-408(LC 12), 13=-338(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=308(LC 25), 21=1630(LC 2), 13=1438(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-89/342, 3-5=-63/709, 5-6=-494/312, 6-7=-473/297, 7-9=-559/297, 9-10=0/492, 10-11=0/325
BOT CHORD 16-18=-9/453
WEBS 3-22=-146/274, 3-21=-558/305, 5-21=-1291/272, 5-18=0/370, 9-16=-37/542, 9-13=-1057/258, 10-13=-297/188

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 43-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 186 lb uplift at joint 2, 135 lb uplift at joint 11, 408 lb uplift at joint 21 and 338 lb uplift at joint 13.

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

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201015
4260882	T17	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. Mon Oct 7 05:39:03 2024 Page 1
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1-4-0 7-4-0 13-11-8 20-10-0 27-10-4 31-6-8 36-6-0 41-8-0 43-0-0
1-4-0 7-4-0 6-7-8 6-10-8 7-0-4 3-8-4 4-11-8 5-2-0 1-4-0

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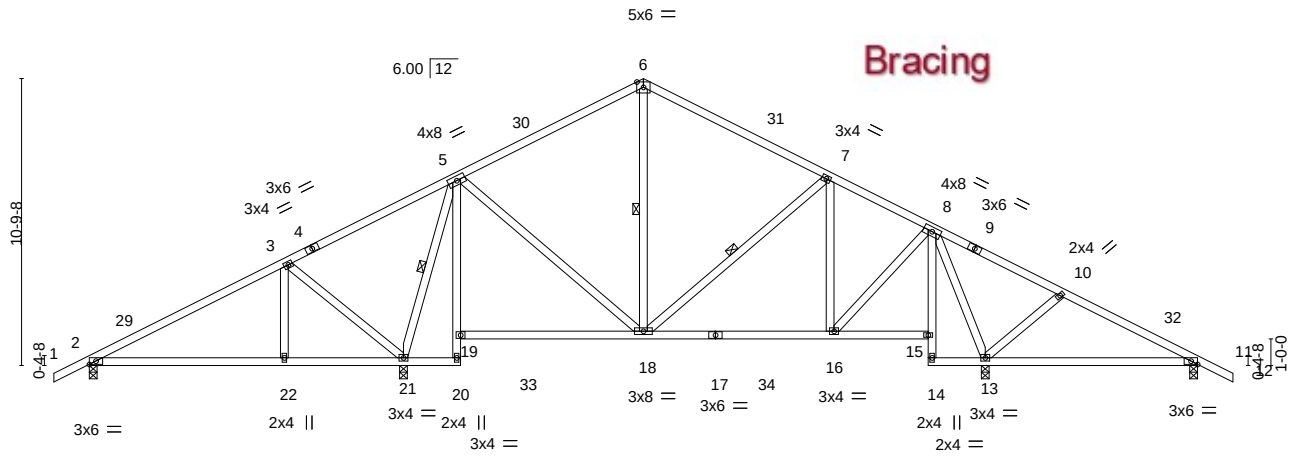

7-4-0 11-9-12 13-11-8 20-10-0 27-10-4 31-6-8 33-8-4 41-8-0
7-4-0 4-5-12 2-1-12 6-10-8 7-0-4 3-8-4 2-1-12 7-11-12

Plate Offsets (X,Y)-- [11:0-2-15,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	0.51	Vert(LL)	0.11	22-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.18	22-25	>784	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 246 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-20,8-14: 2x4 SP No.3
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 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-21, 6-18, 7-18

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=185(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-188(LC 8), 11=-130(LC 8), 21=-384(LC 12), 13=-343(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=398(LC 25), 21=1558(LC 2), 13=1373(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-285/298, 3-5=-35/569, 5-6=-463/308, 6-7=-461/281, 7-8=-498/284, 8-10=0/430, 10-11=0/261
BOT CHORD 16-18=-9/425
WEBS 3-22=-141/280, 3-21=-585/317, 5-21=-1152/254, 5-18=0/454, 7-16=-254/87, 8-16=-71/581, 8-13=-990/256, 10-13=-312/199

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 43-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 188 lb uplift at joint 2, 130 lb uplift at joint 11, 384 lb uplift at joint 21 and 343 lb uplift at joint 13.

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

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201016
4260882	T18	ROOF SPECIAL	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:04 2024 Page 1
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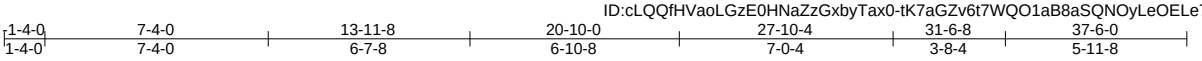

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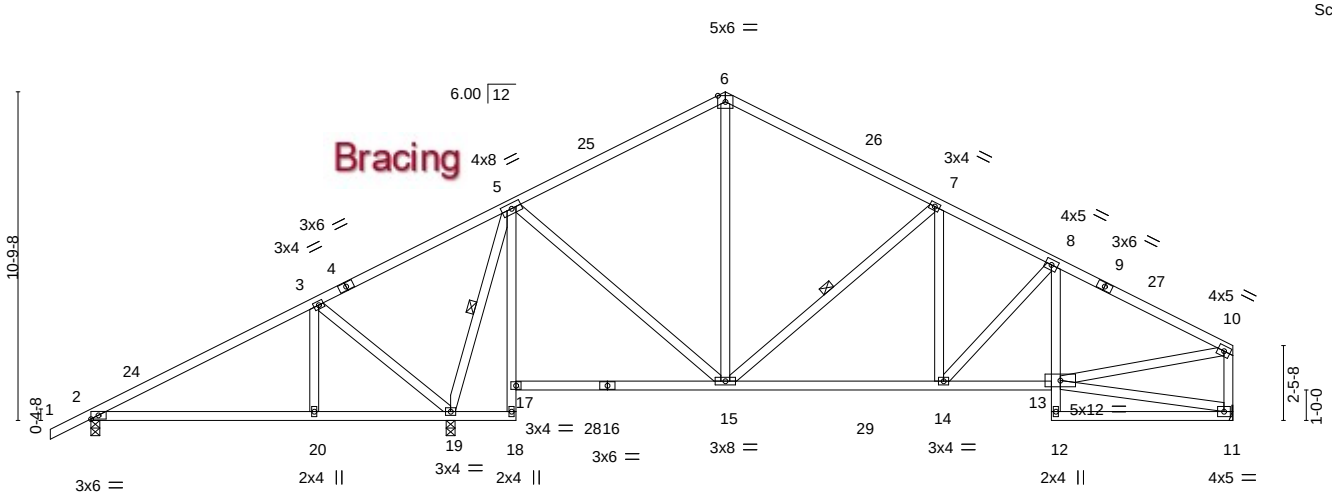

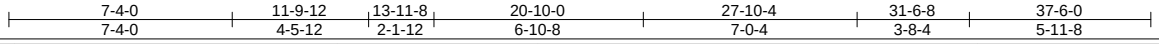

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	0.11	20-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.18	20-23	>783	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 237 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-18,8-12: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 7-15

REACTIONS. (size) 2=0-3-8, 11=Mechanical, 19=0-3-8
Max Horz 2=243(LC 12)
Max Uplift 2=-152(LC 8), 11=-266(LC 13), 19=-454(LC 12)
Max Grav 2=372(LC 25), 11=935(LC 2), 19=1841(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-113/594, 5-6=-633/305, 6-7=-631/277, 7-8=-1072/371, 8-10=-1197/364, 10-11=-833/288
BOT CHORD 14-15=-189/936, 13-14=-252/1014
WEBS 3-20=-141/279, 3-19=-586/319, 5-19=-1418/327, 5-15=-40/690, 6-15=-103/255, 7-15=-586/275, 7-14=-30/327, 10-13=-249/991

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 37-4-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 2, 266 lb uplift at joint 11 and 454 lb uplift at joint 19.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201017
4260882	T19	HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:05 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-LXhyTuwkeReH0A9NiH_fwcVW7oWxNYg?Dmq6k0yVuuq

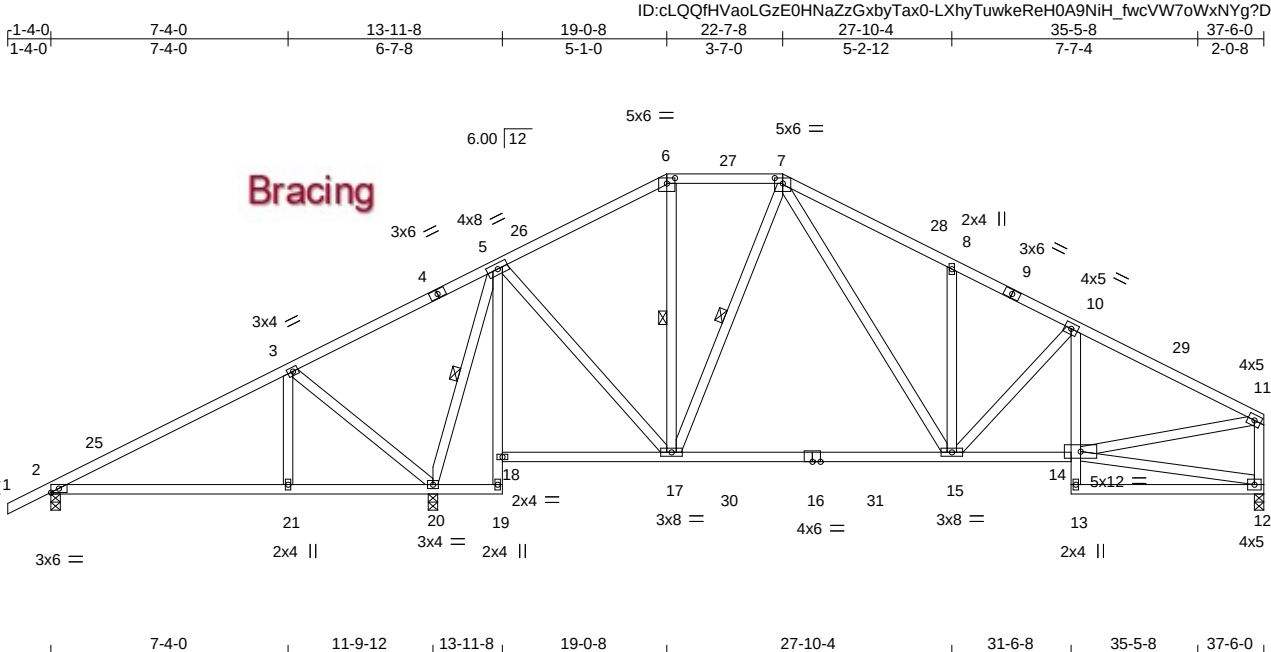

Plate Offsets (X,Y)-- [6:0-3-0,0-2-0], [7:0-3-0,0-2-0]

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	0.55	Vert(LL)	-0.23	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.36	15-17	>841	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 248 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-19,10-13: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-20, 6-17, 7-17

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 20=0-3-8
Max Horz 2=228(LC 12)
Max Uplift 2=-137(LC 8), 12=-267(LC 13), 20=-455(LC 12)
Max Grav 2=375(LC 25), 12=952(LC 2), 20=1786(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-107/519, 5-6=-611/274, 6-7=-494/263, 7-8=-1138/473, 8-10=-1120/368, 10-11=-1219/368, 11-12=-845/289
BOT CHORD 15-17=-37/611, 14-15=-261/1037
WEBS 3-21=-141/279, 3-20=-591/324, 5-20=-1354/323, 5-17=-51/735, 7-17=-362/160, 7-15=-269/694, 8-15=-254/189, 11-14=-255/1013

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 19-0-8, Zone3 19-0-8 to 22-7-8, Zone2 22-7-8 to 26-10-7, Zone1 26-10-7 to 37-4-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 137 lb uplift at joint 2, 267 lb uplift at joint 12 and 455 lb uplift at joint 20.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201018
4260882	T20	HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:05 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-LXhyTuwkeReH0A9NiH_fwcVTxoa4NU9?Dmq6k0yVuuq

-1-4-0 7-4-0 11-9-12 17-0-8 24-7-8 31-6-0 37-6-0
1-4-0 7-4-0 4-5-12 5-2-12 7-7-0 6-10-8 6-0-0

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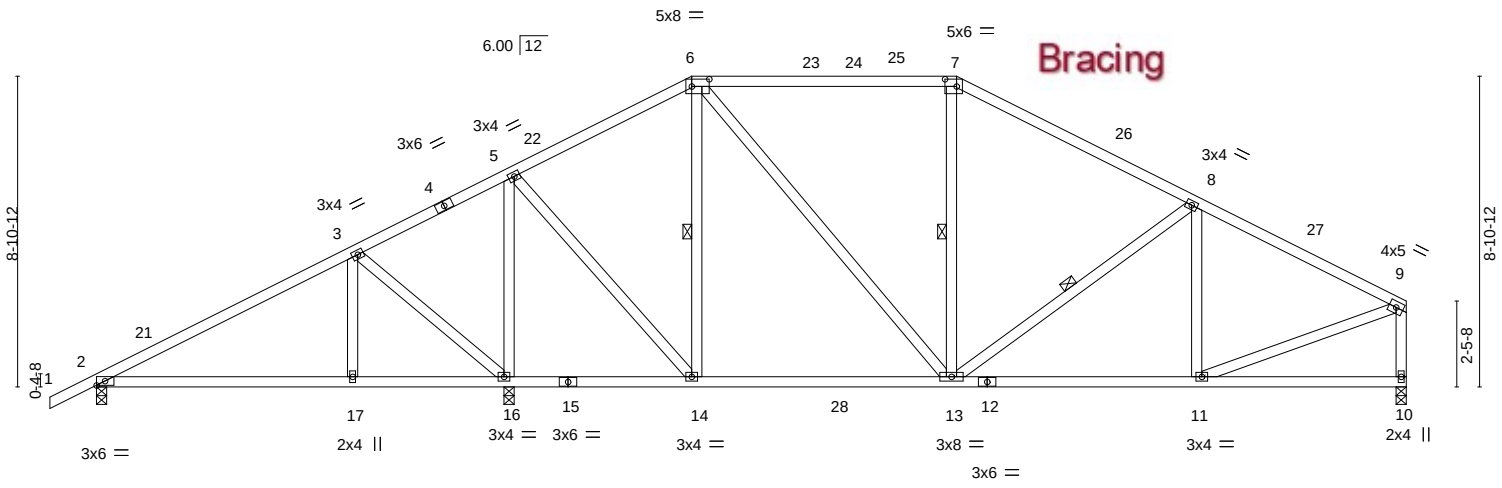

7-4-0 11-9-12 17-0-8 24-7-8 31-6-0 37-6-0
7-4-0 4-5-12 5-2-12 7-7-0 6-10-8 6-0-0

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

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	0.76	Vert(LL)	0.11	17-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.18	17-20	>766	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 225 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 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-16.
WEBS 1 Row at midpt 6-14, 7-13, 8-13

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 10=0-3-8
Max Horz 2=212(LC 12)
Max Uplift 2=-133(LC 9), 16=-419(LC 12), 10=-264(LC 13)
Max Grav 2=455(LC 25), 16=1641(LC 2), 10=986(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-403/165, 5-6=-563/219, 6-7=-747/322, 7-8=-906/306, 8-9=-1072/305, 9-10=-897/277
BOT CHORD 2-17=-164/296, 16-17=-164/296, 13-14=-53/454, 11-13=-216/916
WEBS 3-17=-145/276, 3-16=-554/308, 5-16=-1167/303, 5-14=-135/919, 6-14=-463/142, 6-13=-164/462, 9-11=-214/934

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-0-8, Zone2 17-0-8 to 21-3-7, Zone1 21-3-7 to 24-7-8, Zone2 24-7-8 to 28-10-7, Zone1 28-10-7 to 37-4-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 133 lb uplift at joint 2, 419 lb uplift at joint 16 and 264 lb uplift at joint 10.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201019
4260882	T21	Hip Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:06 2024 Page 1
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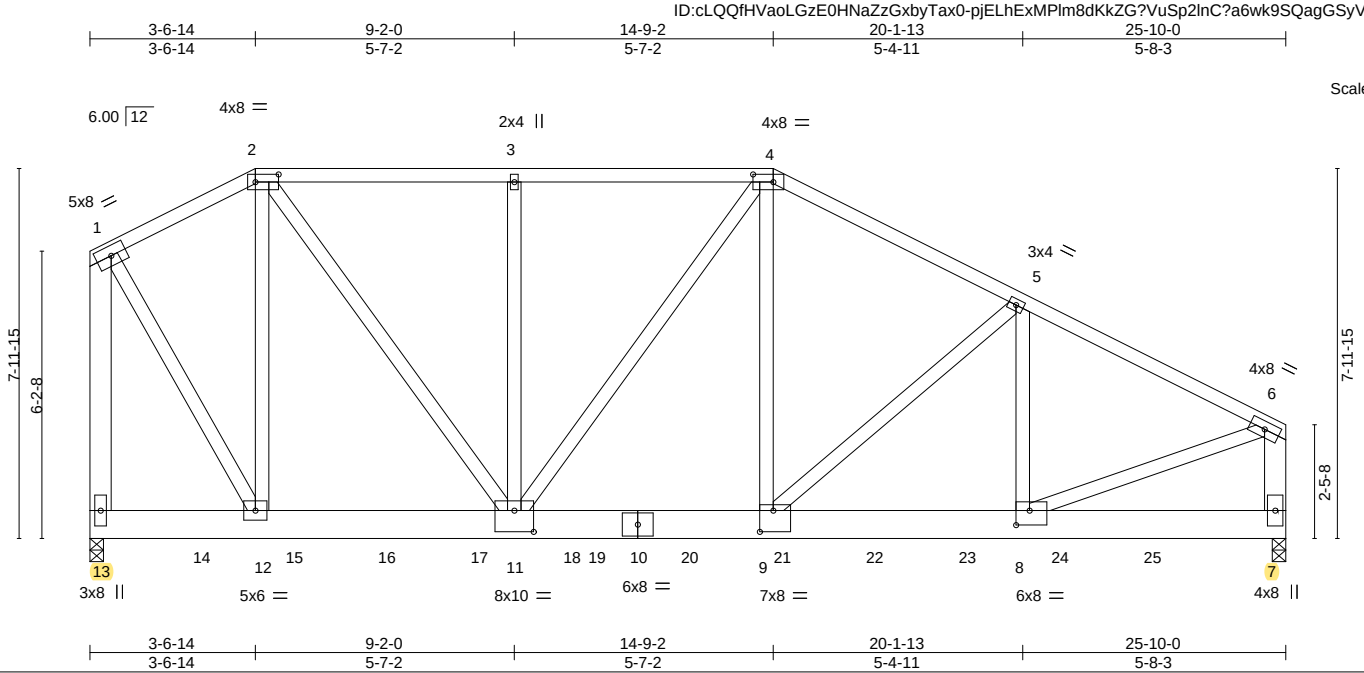

Plate Offsets (X,Y)-- [2:0-6-0,0-2-0], [4:0-5-4,0-2-0], [8:0-3-8,0-3-12], [9:0-3-8,0-5-8], [11:0-5-0,0-5-8]

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	0.30	Vert(LL)	-0.08	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.14	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 460 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-13,6-7: 2x6 SP No.2

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

REACTIONS. (size) 13=0-3-8, 7=0-3-8
Max Horz 13=-173(LC 9)
Max Uplift 13=-1633(LC 8), 7=-1653(LC 9)
Max Grav 13=4874(LC 1), 7=4773(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2182/728, 2-3=-3782/1305, 3-4=-3782/1305, 4-5=-4550/1604, 5-6=-5066/1757, 1-13=-4214/1382, 6-7=-3991/1396
BOT CHORD 11-12=-581/1875, 9-11=-1284/4044, 8-9=-1513/4473, 7-8=-117/304
WEBS 2-12=-1828/628, 2-11=-1106/3215, 3-11=-341/200, 4-11=-450/306, 4-9=-807/2095, 5-9=-628/333, 5-8=-276/440, 1-12=-1215/3675, 6-8=-1497/4469

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
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 1633 lb uplift at joint 13 and 1653 lb uplift at joint 7.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 544 lb down and 212 lb up at 0-2-12, 536 lb down and 256 lb up at 2-4-12, 536 lb down and 181 lb up at 4-4-12, 536 lb down and 181 lb up at 6-4-12, 536 lb down and 181 lb up at 8-4-12, 535 lb down and 182 lb up at 10-4-12, 535 lb down and 182 lb up at 10-11-4, 535 lb down and 182 lb up at 12-11-4, 535 lb down and 275 lb up at 14-11-4, 535 lb down and 239 lb up at 16-11-4, 535 lb down and 209 lb up at 18-11-4, and 535 lb down and 183 lb up at 20-11-4, and 1336 lb down and 525 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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Date:

October 7,2024

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LOAD CASE(S) Standard

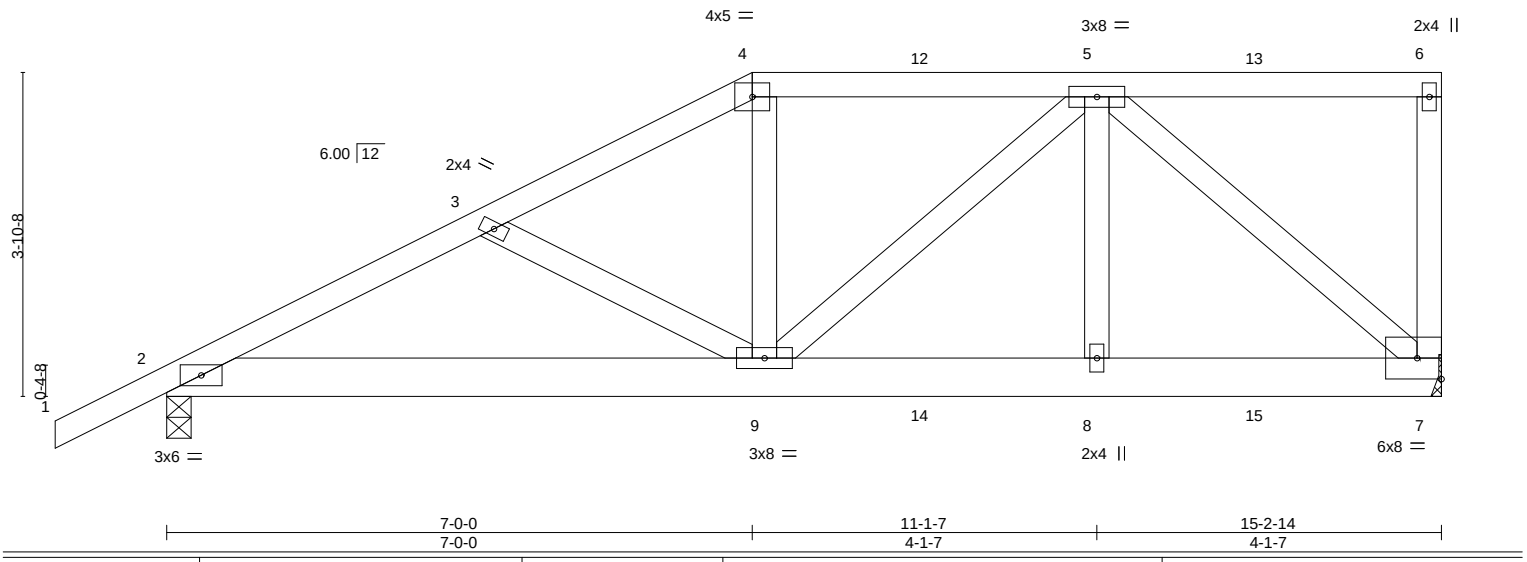
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-6=-54, 7-13=-20
   Concentrated Loads (lb)
   Vert: 13=-544(F) 14=-536(F) 15=-536(F) 16=-536(F) 17=-536(F) 18=-535(F) 19=-535(F) 20=-535(F) 21=-535(F) 22=-535(F) 23=-535(F) 24=-535(F) 25=-1336(F)

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201020
4260882	T22	HALF 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. Mon Oct 7 05:39:07 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-Hvojuay_A2u?FUIlpi07?1avKcIqrPiIh4JDpuyVuuo

-1-4-0 | 3-10-15 | 7-0-0 | 11-1-7 | 15-2-14
1-4-0 | 3-10-15 | 3-1-1 | 4-1-7 | 4-1-7

Scale = 1:27.5



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	0.38	Vert(LL)	0.04	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.07	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 96 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 4-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=Mechanical
Max Horz 2=158(LC 29)
Max Uplift 2=-342(LC 8), 7=-505(LC 5)
Max Grav 2=999(LC 1), 7=1356(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1724/604, 3-4=-1546/539, 4-5=-1360/509, 6-7=-266/161
BOT CHORD 2-9=-627/1523, 8-9=-411/1089, 7-8=-411/1089
WEBS 4-9=-34/418, 5-9=-131/362, 5-8=0/322, 5-7=-1426/539

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 342 lb uplift at joint 2 and 505 lb uplift at joint 7.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 105 lb up at 7-0-0, 114 lb down and 105 lb up at 9-0-12, 110 lb down and 95 lb up at 11-0-12, and 110 lb down and 103 lb up at 13-0-12, and 137 lb down and 101 lb up at 15-1-2 on top chord, and 306 lb down and 114 lb up at 7-0-0, 87 lb down and 24 lb up at 9-0-12, 86 lb down and 22 lb up at 11-0-12, and 86 lb down and 22 lb up at 13-0-12, and 105 lb down and 12 lb up at 15-1-2 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).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-7=-20
Concentrated Loads (lb)
Vert: 4=-114(F) 6=-137(F) 9=-306(F) 8=-65(F) 7=-75(F) 5=-110(F) 12=-114(F) 13=-110(F) 14=-69(F) 15=-65(F)

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201021
4260882	T23	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:07 2024 Page 1
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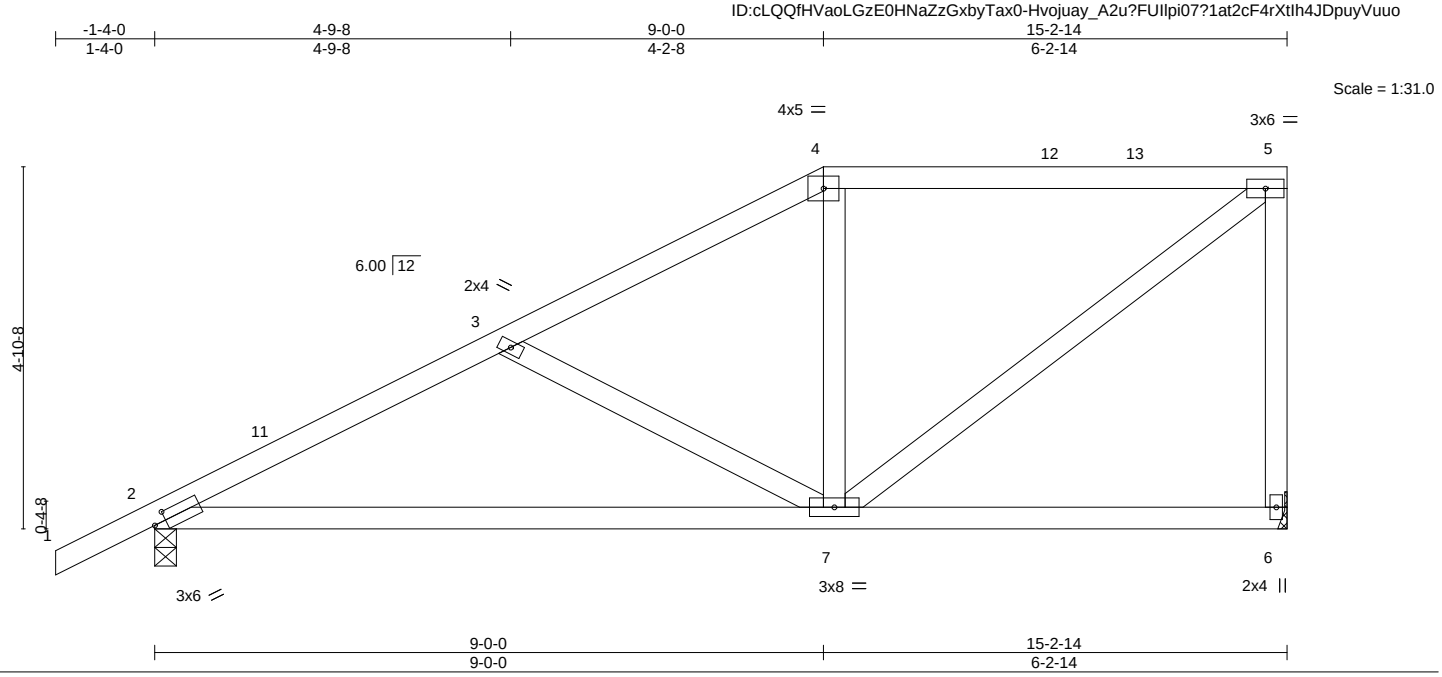

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8]

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	0.46	Vert(LL)	-0.13	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.27	7-10	>670	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 80 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 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=196(LC 12)
Max Uplift 6=-163(LC 12), 2=-186(LC 12)
Max Grav 6=555(LC 1), 2=634(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-855/248, 3-4=-588/151, 4-5=-475/166, 5-6=-512/175
BOT CHORD 2-7=-341/744
WEBS 3-7=-304/195, 5-7=-203/574

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-1-2 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 163 lb uplift at joint 6 and 186 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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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201022
4260882	T24	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:08 2024 Page 1
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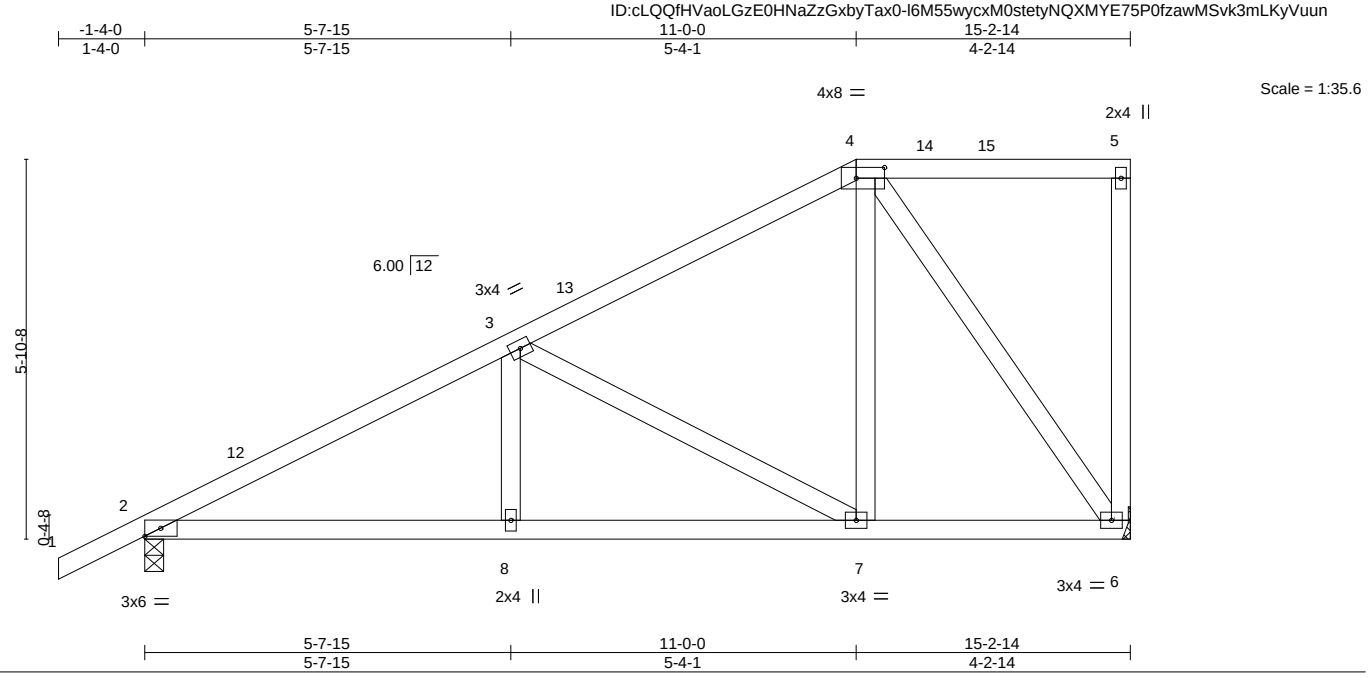

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

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	0.30	Vert(LL)	0.03	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.06	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 88 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=0-3-8, 6=Mechanical
Max Horz 2=235(LC 12)
Max Uplift 2=-175(LC 12), 6=-189(LC 12)
Max Grav 2=634(LC 1), 6=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-887/202, 3-4=-416/96
BOT CHORD 2-8=-331/746, 7-8=-331/746, 6-7=-125/315
WEBS 3-7=-497/236, 4-7=-76/372, 4-6=-523/208

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone3 11-0-0 to 15-1-2 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 175 lb uplift at joint 2 and 189 lb uplift at joint 6.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201023
4260882	T25	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:08 2024 Page 1
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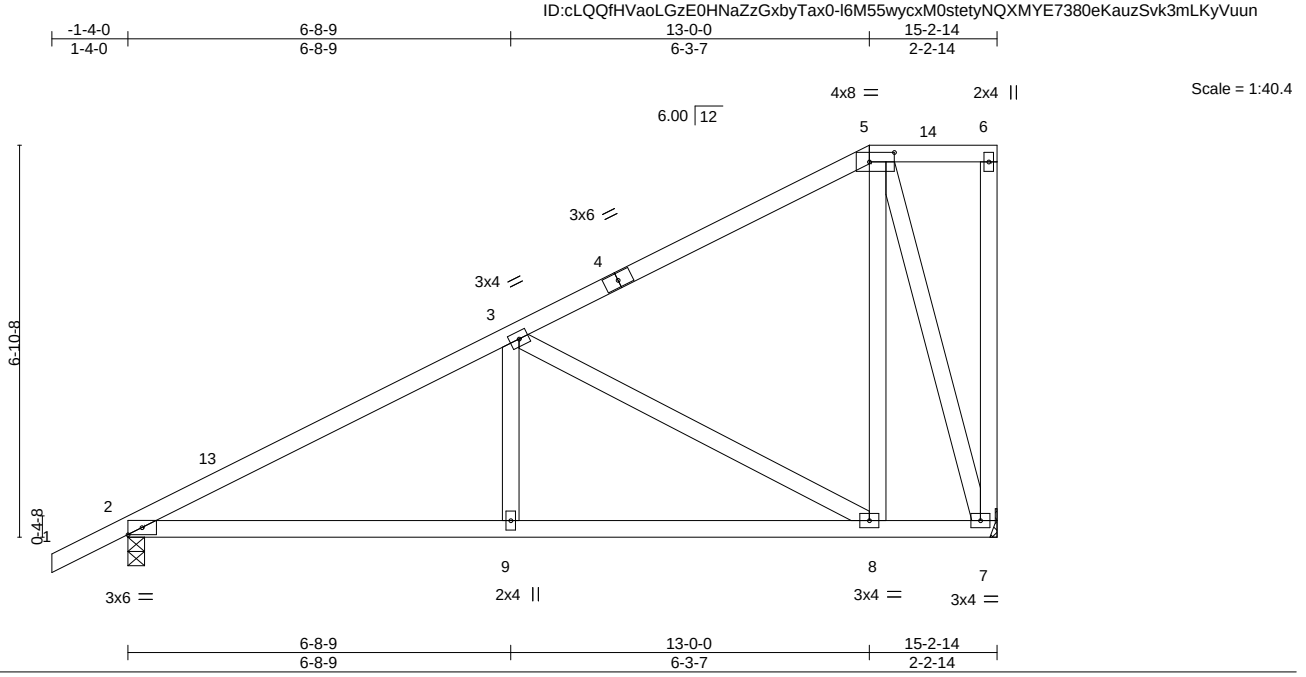

Plate Offsets (X,Y)-- [5:0-5-4,0-2-0]

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	0.44	Vert(LL)	0.05	9-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.10	9-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 93 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=0-3-8, 7=Mechanical
Max Horz 2=274(LC 12)
Max Uplift 2=-161(LC 12), 7=-219(LC 12)
Max Grav 2=634(LC 1), 7=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-841/157, 3-5=-267/27
BOT CHORD 2-9=-319/697, 8-9=-319/697
WEBS 3-9=0/288, 3-8=-607/285, 5-8=-92/411, 5-7=-553/228

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-0-0, Zone3 13-0-0 to 15-1-2 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 161 lb uplift at joint 2 and 219 lb uplift at joint 7.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201024
4260882	T26	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:09 2024 Page 1
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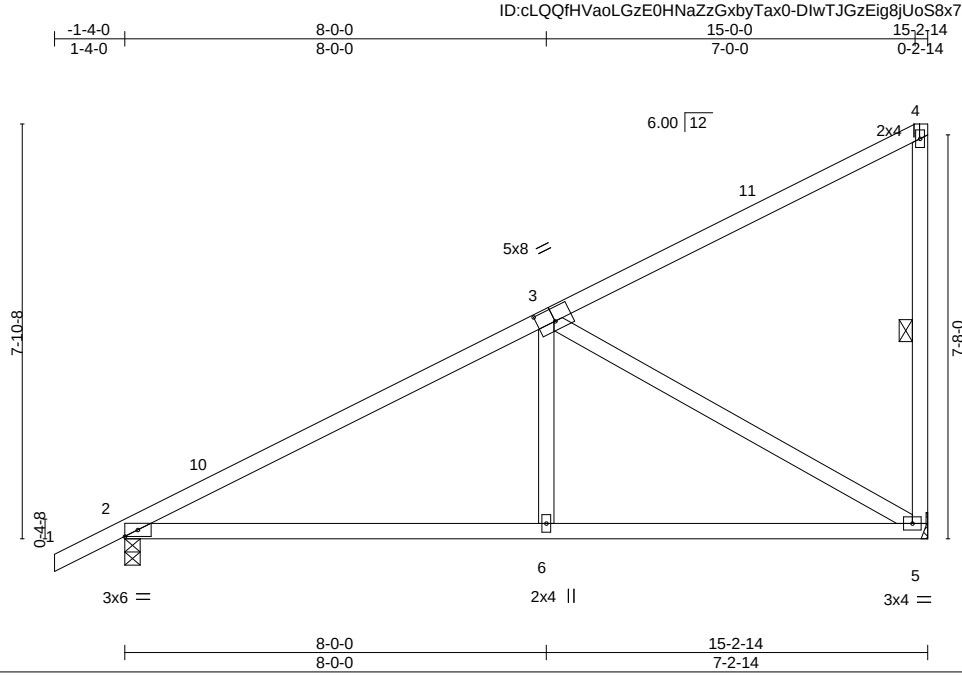

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0]

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	0.66	Vert(LL)	0.11	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.19	6-9	>929	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 79 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 5-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=313(LC 12)
Max Uplift 2=-143(LC 12), 5=-255(LC 12)
Max Grav 2=634(LC 1), 5=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-774/94
BOT CHORD 2-6=-287/624, 5-6=-288/619
WEBS 3-6=0/352, 3-5=-707/329

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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-1-2 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 143 lb uplift at joint 2 and 255 lb uplift at joint 5.

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October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201025
4260882	T27	JACK-CLOSED	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:09 2024 Page 1
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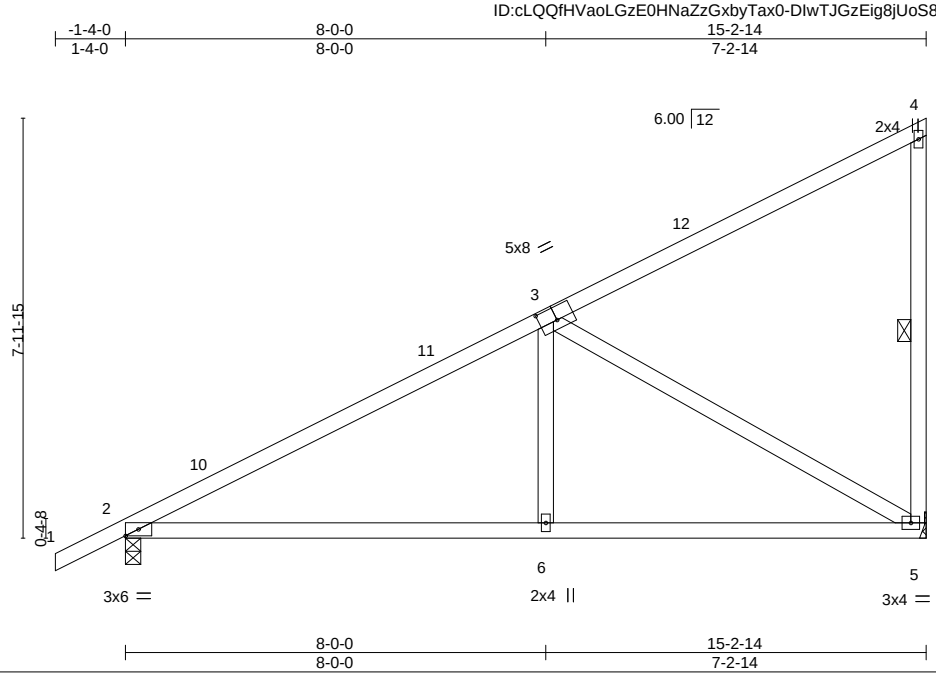

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0]

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	0.66	Vert(LL)	0.12	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.20	6-9	>918	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 79 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 5-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=260(LC 12)
Max Uplift 2=-130(LC 12), 5=-162(LC 12)
Max Grav 2=634(LC 1), 5=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-773/61
BOT CHORD 2-6=-202/621, 5-6=-203/614
WEBS 3-6=0/352, 3-5=-704/235

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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-1-2 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 130 lb uplift at joint 2 and 162 lb uplift at joint 5.

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October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201026
4260882	T28	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:10 2024 Page 1
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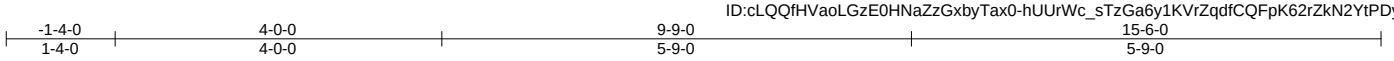

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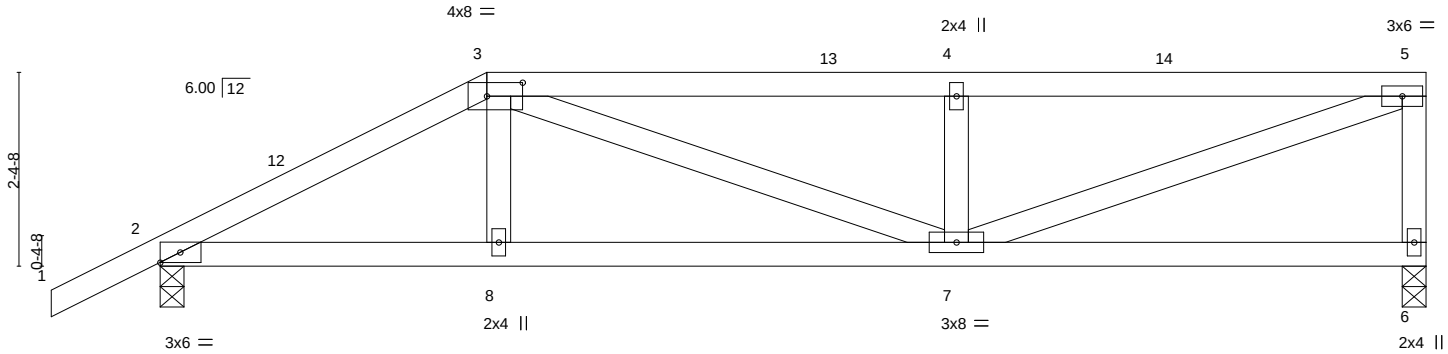

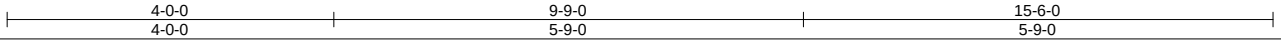

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]

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	0.34	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 74 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 5-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=100(LC 12)
Max Uplift 6=-181(LC 9), 2=-198(LC 12)
Max Grav 6=565(LC 1), 2=643(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-973/265, 3-4=-1064/339, 4-5=-1064/339, 5-6=-510/193
BOT CHORD 2-8=-266/833, 7-8=-264/840
WEBS 3-7=-133/303, 4-7=-349/198, 5-7=-346/1086

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-0-0, Zone2 4-0-0 to 8-2-15, Zone1 8-2-15 to 15-4-4 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 181 lb uplift at joint 6 and 198 lb uplift at joint 2.

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Date:

October 7,2024

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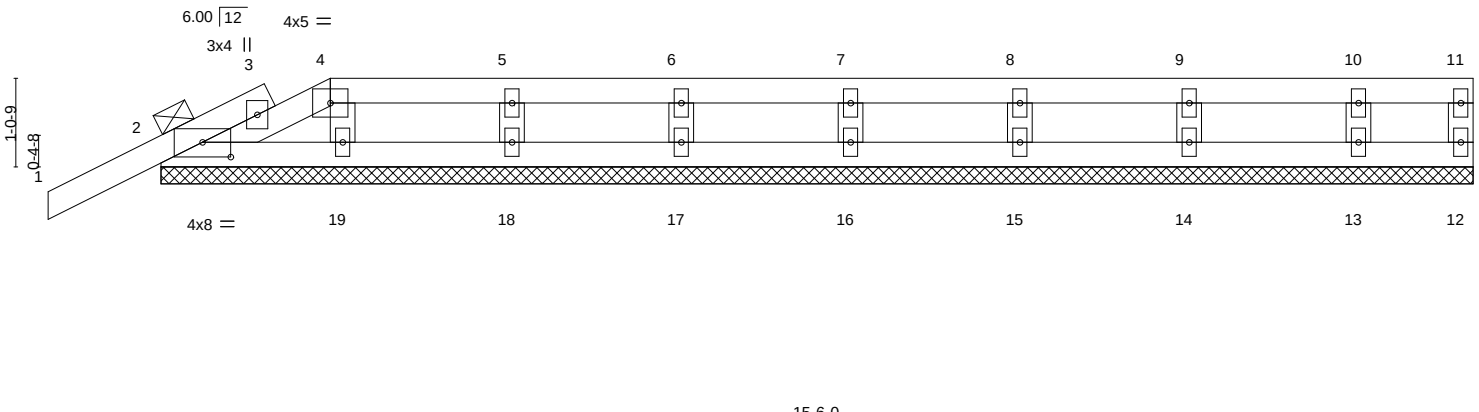
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201027
4260882	T28G	GABLE COMMON	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 16 2023 MiTek Industries, Inc. Tue Oct 8 10:27:39 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-vA6pmMcKXnGn8GscENhUzXp2eM2PwGF8OYcFhXyVg7I

-1-4-0 2-0-0 15-6-0
1-4-0 2-0-0 13-6-0

Scale = 1:27.2



15-6-0
15-6-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 56 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals, and sheathed or 6-0-0 oc purlins: 4-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-6-0.
(lb) - Max Horz 2=49(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 18, 17, 16, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 19, 18, 17, 16, 15, 14, 13

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 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
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 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, 18, 17, 16, 15, 14, 13.
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 7,2024

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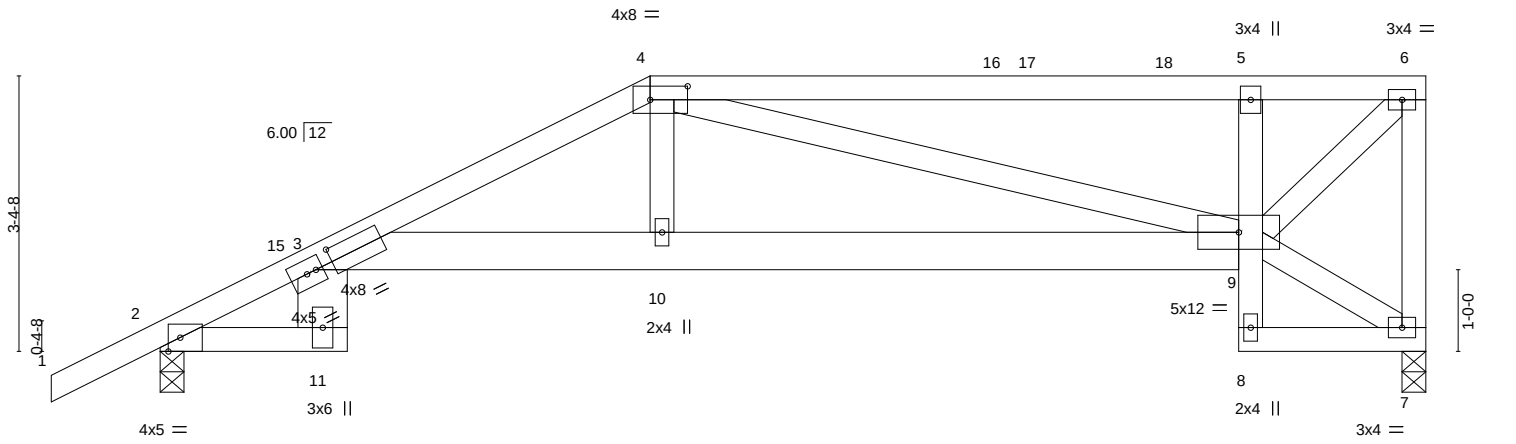
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201028
4260882	T29	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:11 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-9h2Eky?VEHORk5cX2Y439tlU3DXHnF1ubiHRyfyVuuk

-1-4-0 2-3-8 6-0-0 13-2-8 15-6-0
1-4-0 2-3-8 3-8-8 7-2-8 2-3-8

Scale = 1:28.2



2-3-8 6-0-0 13-2-8 15-6-0
2-3-8 3-8-8 7-2-8 2-3-8

Plate Offsets (X,Y)-- [2:0-1-12,Edge], [3:0-2-10,0-2-0], [4:0-5-8,0-2-0]

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	0.78	Vert(LL)	0.19	3-10	>975	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.32	3-10	>567	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.21	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 90 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 4-6: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-11: 2x8 SP 2400F 2.0E, 3-9: 2x6 SP No.2, 5-8: 2x4 SP No.3
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 2-2-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=139(LC 12)
Max Uplift 7=-175(LC 9), 2=-197(LC 12)
Max Grav 7=565(LC 1), 2=642(LC 1)

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

TOP CHORD	3-13=-479/75, 3-4=-1287/381, 4-5=-634/216, 5-6=-553/182, 6-7=-523/163
BOT CHORD	3-11=-112/314, 3-10=-383/1146, 9-10=-387/1172, 5-9=-361/206
WEBS	4-10=-49/438, 4-9=-558/223, 6-9=-261/784

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 15-4-4 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 100 lb uplift at joint(s) except (jt=lb) 7=175, 2=197.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201029
4260882	T30	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:11 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-9h2Eky?VEHORk5cX2Y439tlV6DbQnICubiHRyfyVuuk

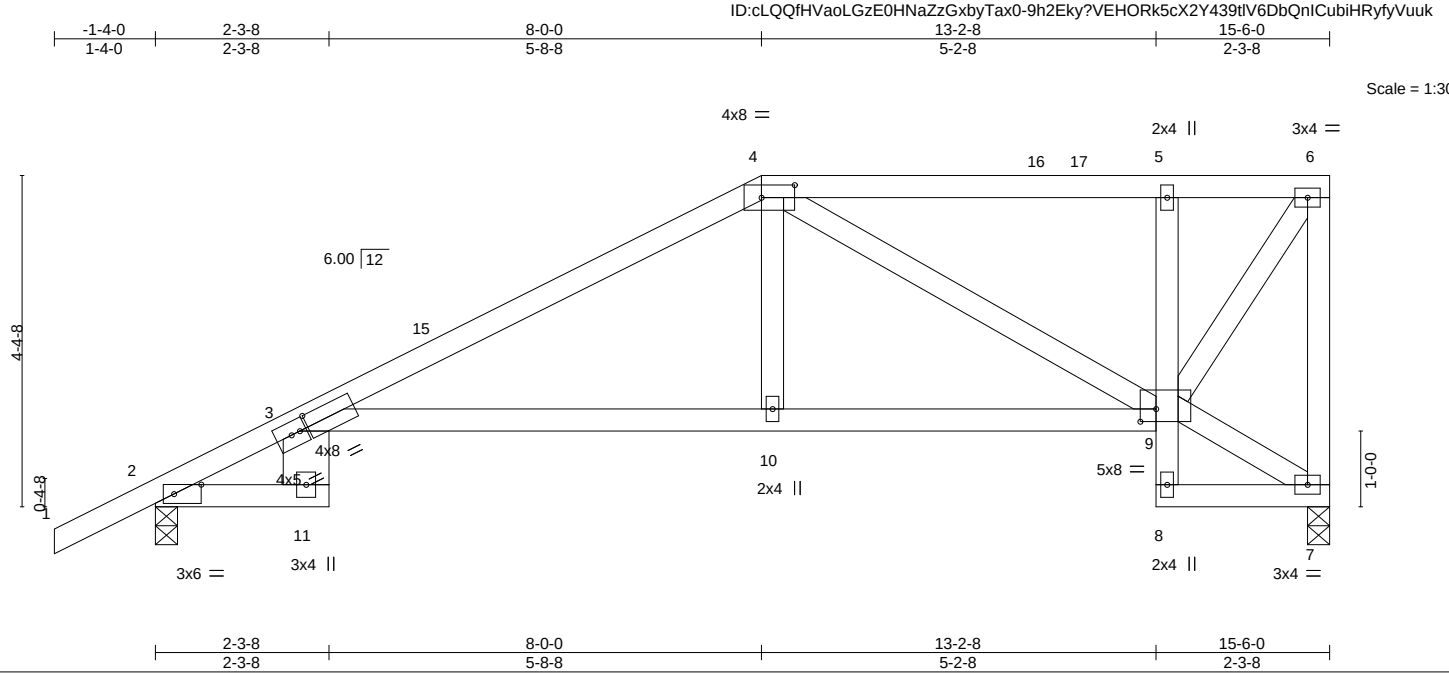

Plate Offsets (X,Y)-- [2:0-4-5,Edge], [3:0-1-7,0-2-0], [4:0-5-4,0-2-0], [9:0-2-8,0-2-0]

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	0.72	Vert(LL)	0.38	3-10	>485	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.62	3-10	>295	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.30	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 84 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 4-6: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 3-11: 2x8 SP 2400F 2.0E, 3-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31, 5-8: 2x4 SP No.3
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) 7=0-3-8, 2=0-3-8
Max Horz 2=177(LC 12)
Max Uplift 7=-167(LC 9), 2=-192(LC 12)
Max Grav 7=565(LC 1), 2=645(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-13=-426/24, 3-4=-937/270, 4-5=-342/108, 5-6=-327/101, 6-7=-522/161
BOT CHORD 3-11=-103/270, 3-10=-301/816, 9-10=-302/829
WEBS 4-10=-37/369, 4-9=-563/235, 6-9=-186/598

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-10-7, Zone1 1-10-7 to 8-0-0, Zone2 8-0-0 to 12-2-15, Zone1 12-2-15 to 15-4-4 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 100 lb uplift at joint(s) except (jt=lb) 7=167, 2=192.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201030
4260882	T31	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:12 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-etccxI?7?bWHLFBjcFcIi4HgrduvWnQ1qM1_U6yVuuj

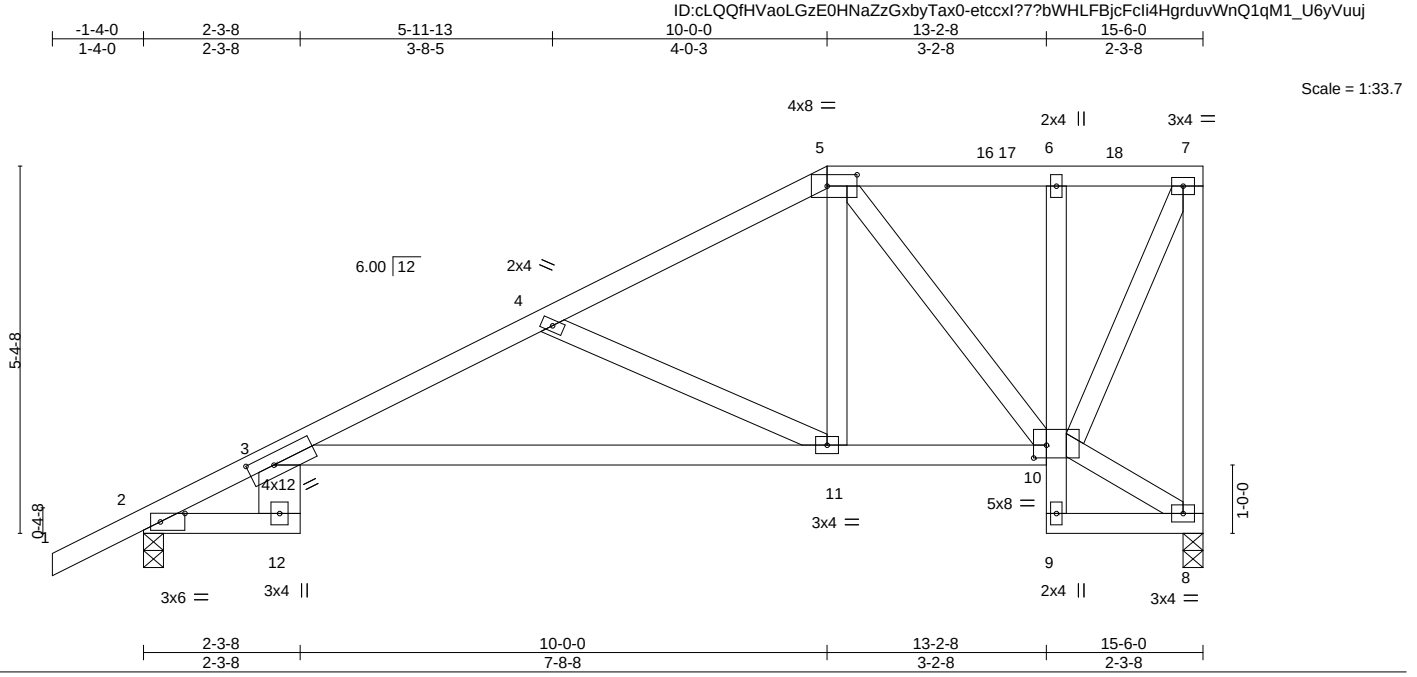

Plate Offsets (X,Y)-- [2:0-4-5,Edge], [3:0-4-8,0-2-0], [5:0-5-4,0-2-0], [10:0-2-4,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.35	3-11	>532	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.64	3-11	>287	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.29	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 96 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 5-7: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 3-12: 2x8 SP 2400F 2.0E, 6-9: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-11-11 oc bracing: 3-11.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=216(LC 12)
Max Uplift 8=-176(LC 12), 2=-184(LC 12)
Max Grav 8=565(LC 1), 2=645(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-14=-426/0, 3-4=-1128/374, 4-5=-658/189, 7-8=-520/175
BOT CHORD 3-12=-111/270, 3-11=-483/1063, 10-11=-197/537
WEBS 4-11=-597/319, 5-11=-126/511, 5-10=-460/175, 7-10=-189/539

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-10-7, Zone1 1-10-7 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 15-4-4 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 100 lb uplift at joint(s) except (jt=lb) 8=176, 2=184.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201031
4260882	T32	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:12 2024 Page 1
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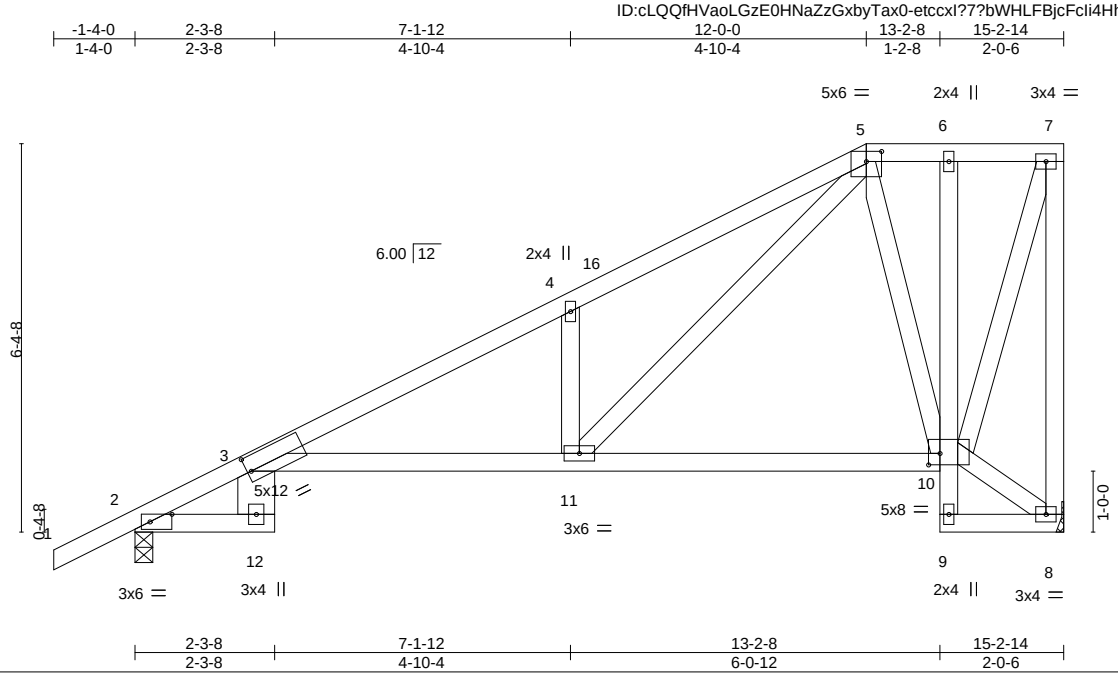

Plate Offsets (X,Y)-- [2:0-4-5,Edge], [3:0-0-12,0-2-15], [5:0-3-0,0-2-0], [10:0-2-4,0-2-4]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.70	Vert(LL)	0.34	3-11	>537	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.98	Vert(CT)	-0.52	3-11	>347	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.41	Horz(CT)	0.27	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 101 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 5-7: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 3-12: 2x8 SP 2400F 2.0E, 3-10: 2x4 SP No.1, 6-9: 2x4 SP No.3
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 2-2-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-3-8
Max Horz 2=254(LC 12)
Max Uplift 8=-201(LC 12), 2=-168(LC 12)
Max Grav 8=556(LC 1), 2=636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-14=-418/0, 3-4=-1060/289, 4-5=-1142/437, 7-8=-528/191
BOT CHORD 3-12=-114/265, 3-11=-418/948, 10-11=-117/267
WEBS 4-11=-451/290, 5-11=-436/986, 5-10=-374/213, 7-10=-190/507

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-10-7, Zone1 1-10-7 to 12-0-0, Zone3 12-0-0 to 15-1-2 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 100 lb uplift at joint(s) except (jt=lb) 8=201, 2=168.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201032
4260882	T33	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:13 2024 Page 1
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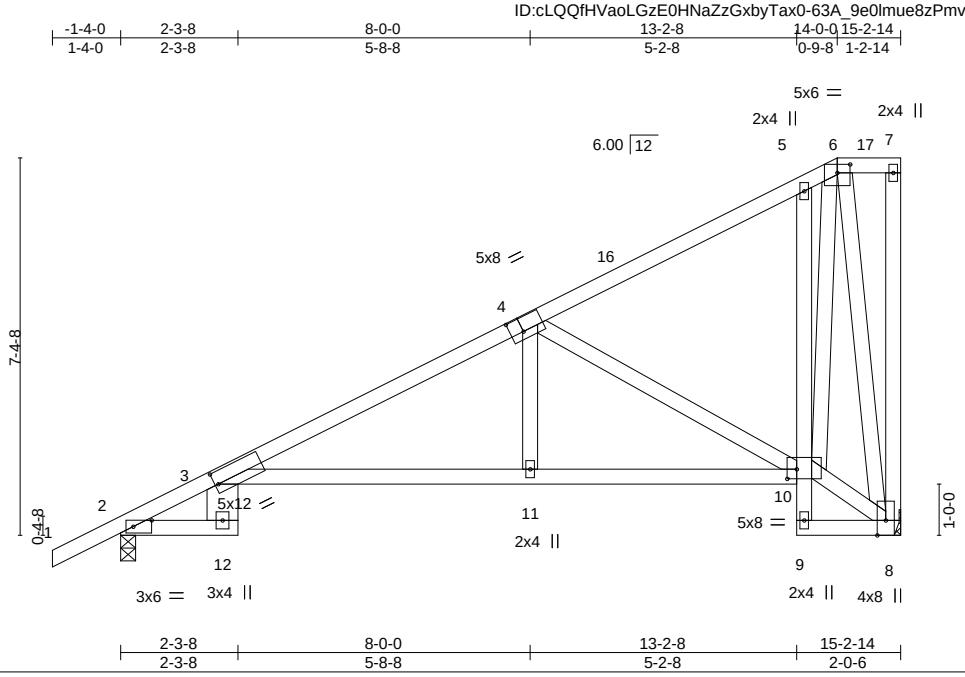

Plate Offsets (X,Y)-- [2:0-4-5,Edge], [3:0-0-12,0-2-15], [4:0-3-0,0-3-4], [6:0-3-0,0-2-0], [10:0-2-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.39	3-11	>462	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.61	3-11	>297	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.31	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 107 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except*
3-12: 2x8 SP 2400F 2.0E, 3-10: 2x4 SP No.1, 5-9: 2x4 SP No.3
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 2-2-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-3-8
Max Horz 2=293(LC 12)
Max Uplift 8=-236(LC 12), 2=-153(LC 12)
Max Grav 8=556(LC 1), 2=636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-14=-418/0, 3-4=-961/229, 4-5=-257/26
BOT CHORD 3-12=-118/265, 3-11=-394/855, 10-11=-396/872
WEBS 4-11=-29/352, 4-10=-816/368, 6-10=-272/561, 6-8=-539/239

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-10-7, Zone1 1-10-7 to 14-0-0, Zone3 14-0-0 to 15-1-2 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 100 lb uplift at joint(s) except (jt=lb) 8=236, 2=153.

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Date:

October 7,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201033
4260882	T34	JACK-CLOSED	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:14 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-aFjMMz1NWCn?bZL6kgemnVN1ZQdZ_dEKIfW5Y_yVuuh

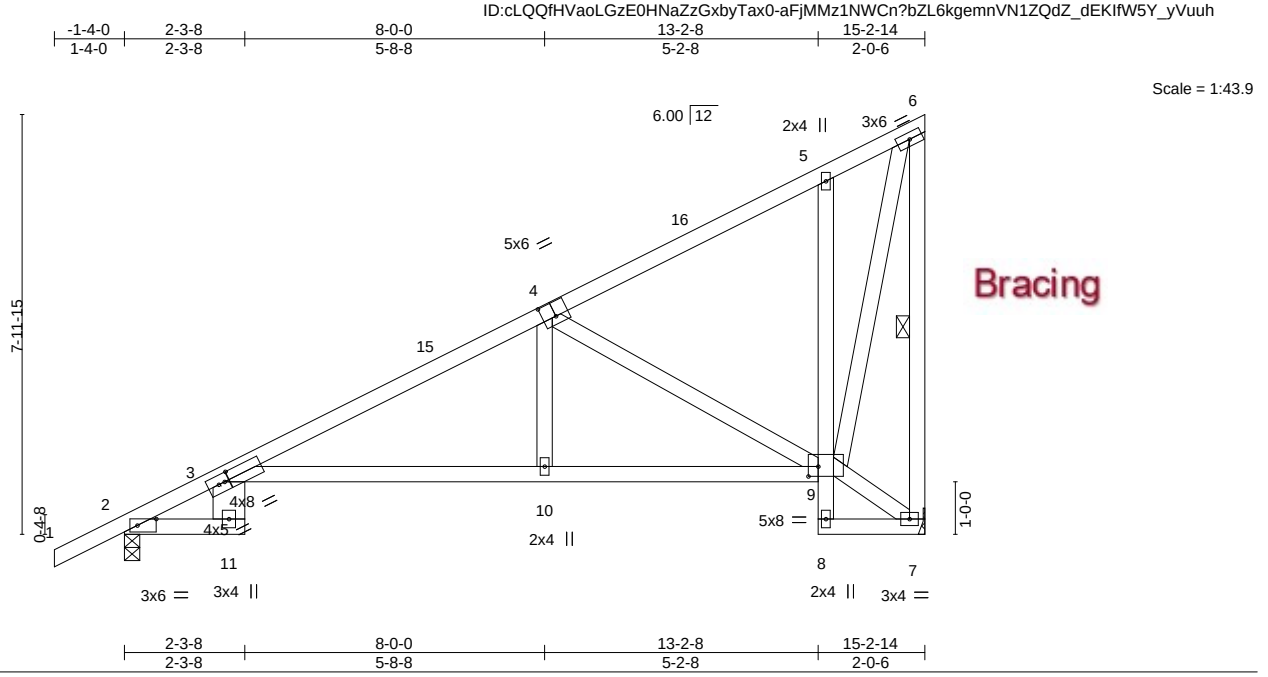

Plate Offsets (X,Y)-- [2:0-4-5,Edge], [3:0-1-3,0-2-0], [4:0-3-0,0-3-4], [9:0-2-4,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.34	3-10	>535	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.59	3-10	>309	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.29	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 99 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except*
3-11: 2x8 SP 2400F 2.0E
3-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
5-8: 2x4 SP No.3
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.
WEBS 1 Row at midpt 6-7

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=260(LC 12)
Max Uplift 7=-161(LC 12), 2=-129(LC 12)
Max Grav 7=556(LC 1), 2=636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-13=-418/0, 3-4=-944/138, 4-5=-252/2, 6-7=-510/180
BOT CHORD 3-11=-96/265, 3-10=-269/829, 9-10=-268/816
WEBS 4-10=-29/366, 4-9=-777/264, 6-9=-194/558

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 -1-4-0 to 1-10-7, Zone1 1-10-7 to 15-1-2 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 100 lb uplift at joint(s) except (jt=lb) 7=161, 2=129.

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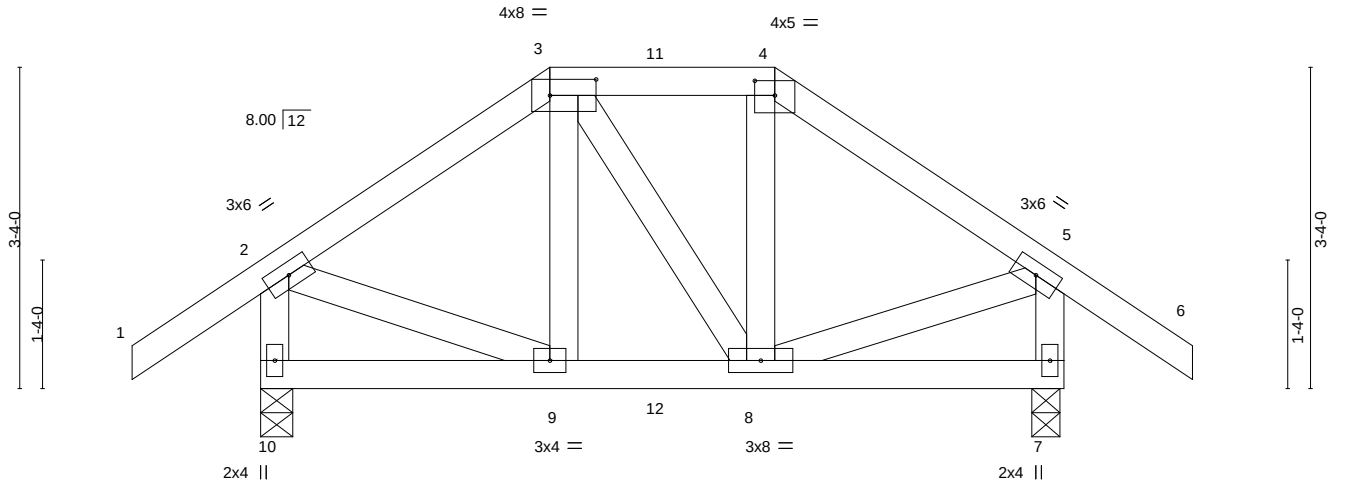
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201034
4260882	T35	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:14 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-aFjMMz1NWCn?bZL6kgemnVN9EQm3_ksKIfW5Y_yVuuh

-1-4-0	3-0-0	5-4-0	8-4-0	9-8-0
1-4-0	3-0-0	2-4-0	3-0-0	1-4-0

Scale: 1/2"=1'



3-0-0	5-4-0	8-3-8	8-4-0
3-0-0	2-4-0	2-11-8	0-0-8

Plate Offsets (X,Y)-- [3:0-5-12,0-2-0], [4:0-2-8,0-1-13]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.15	Vert(LL)	0.01	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.10	Vert(CT)	-0.01	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.07	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 56 lb	FT = 20%

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

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

REACTIONS. (size) 10=0-4-0, 7=0-3-8
Max Horz 10=-112(LC 6)
Max Uplift 10=-290(LC 8), 7=-290(LC 9)
Max Grav 10=396(LC 1), 7=396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-283/284, 3-4=-207/260, 4-5=-283/284, 2-10=-367/298, 5-7=-367/298

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; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=290, 7=290.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 70 lb up at 3-0-0, and 77 lb down and 65 lb up at 4-2-0, and 77 lb down and 70 lb up at 5-4-0 on top chord, and 97 lb down and 97 lb up at 3-0-0, and 23 lb down and 36 lb up at 4-2-0, and 97 lb down and 97 lb up at 5-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 3-4=-54, 4-5=-54, 5-6=-54, 7-10=-20
Concentrated Loads (lb)
Vert: 3=-3(B) 4=-3(B) 9=-12(B) 8=-12(B) 11=-3(B) 12=-5(B)

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October 7,2024

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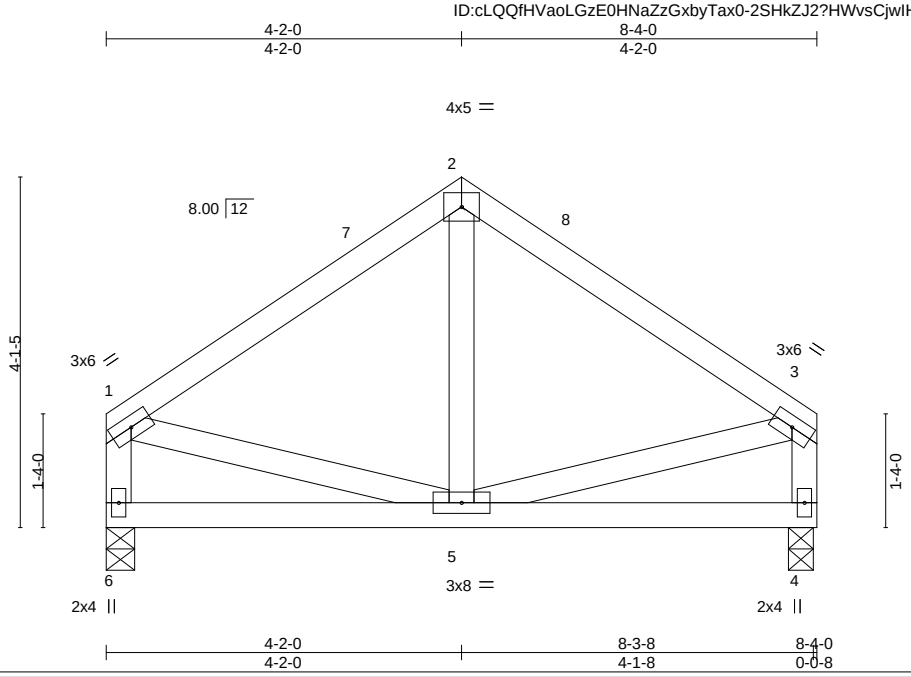
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201035
4260882	T36	Common	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:15 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-2SHkZJ2?HWvsCjwIHO9?KjvJrq5djCTTWJGe5QyVuug



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	0.22	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 47 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) 6=0-4-0, 4=0-3-8
Max Horz 6=106(LC 9)
Max Uplift 6=-69(LC 12), 4=-69(LC 13)
Max Grav 6=298(LC 1), 4=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-274/253, 2-3=-274/241, 1-6=-261/257, 3-4=-261/240

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 4-2-0, Zone3 4-2-0 to 8-2-4 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW T35201036
4260882	T37	COMMON GIRDER	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:15 2024 Page 1
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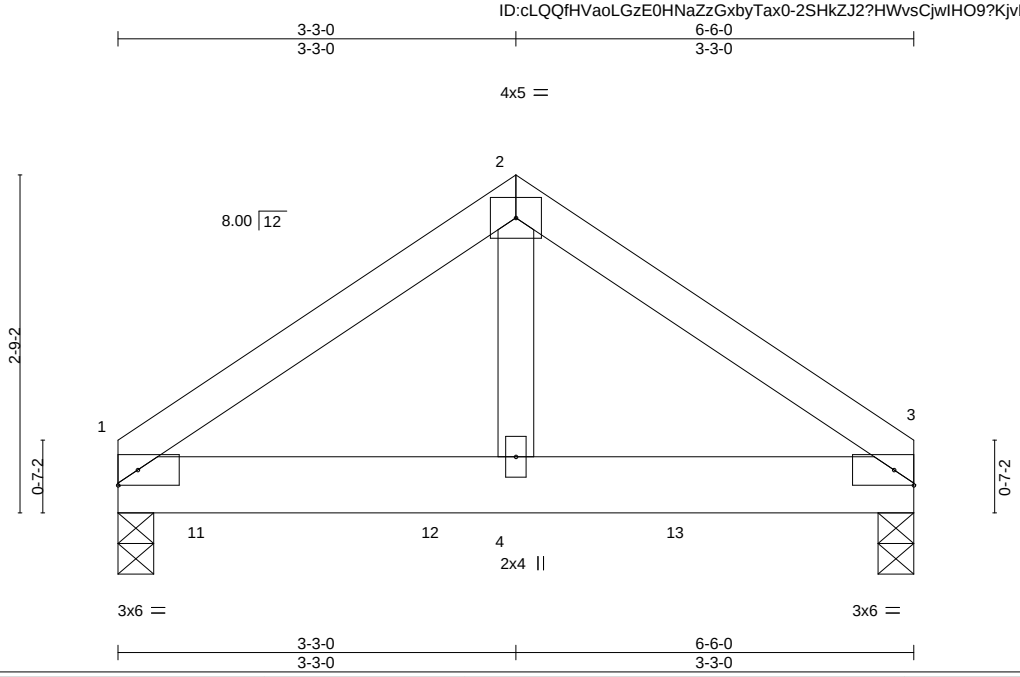

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	-0.01	4-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.01	4-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 30 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=54(LC 7)
Max Uplift 1=-144(LC 8), 3=-127(LC 9)
Max Grav 1=595(LC 1), 3=525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-617/161, 2-3=-618/161
BOT CHORD 1-4=-100/472, 3-4=-100/472
WEBS 2-4=-112/493

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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=144, 3=127.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 52 lb up at 0-8-13, and 237 lb down and 71 lb up at 2-7-12, and 237 lb down and 71 lb up at 4-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-165(B) 12=-237(B) 13=-237(B)

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 23 TW
4260882	T37G	COMMON SUPPORTED GAB	1	1	T35201037

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Mon Oct 7 05:39:16 2024 Page 1

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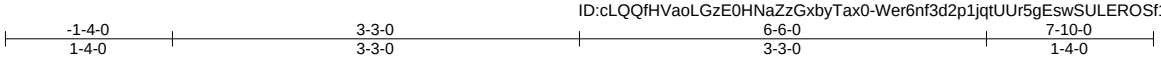

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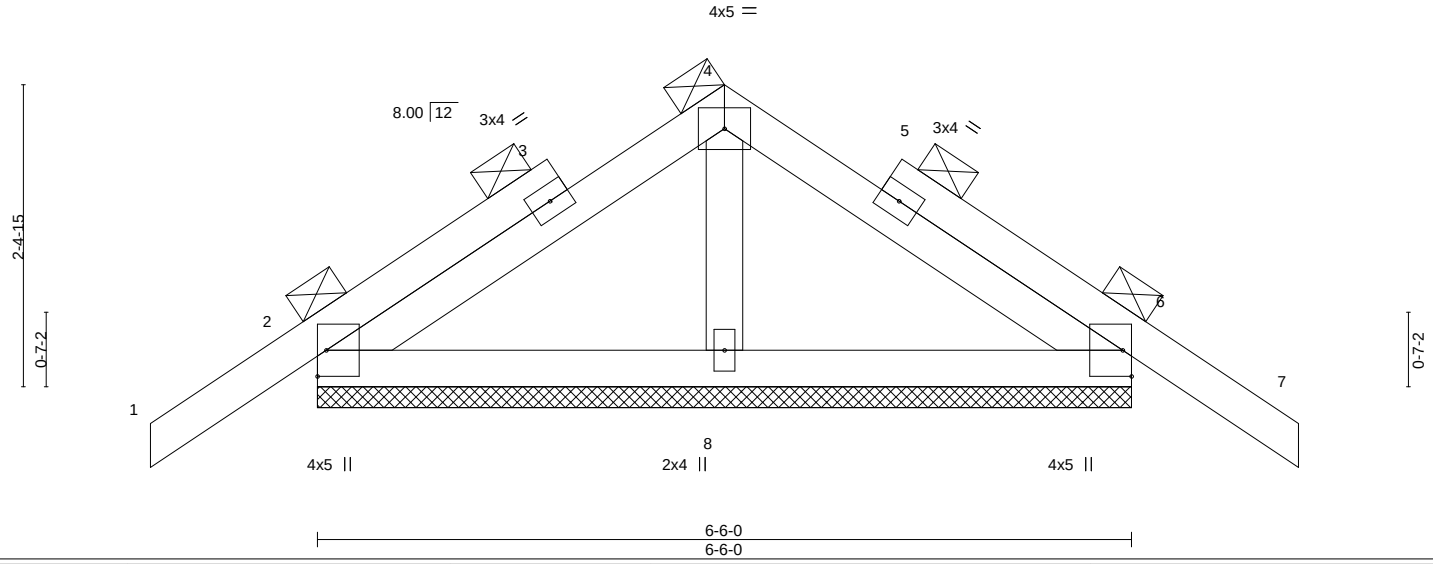

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 36 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. (size) 2=6-6-0, 6=6-6-0, 8=6-6-0
Max Horz 2=-67(LC 10)
Max Uplift 2=-81(LC 12), 6=-92(LC 13), 8=-28(LC 12)
Max Grav 2=204(LC 1), 6=204(LC 1), 8=217(LC 1)

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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8.
10) 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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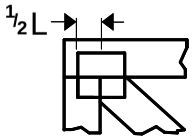
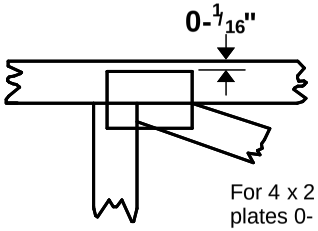
Symbols

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.

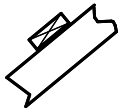
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

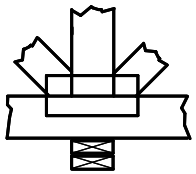
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

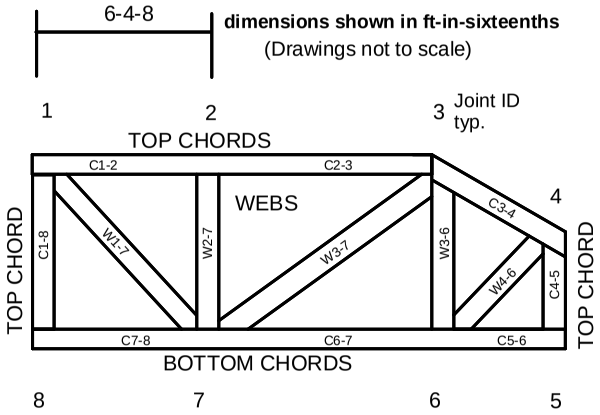


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.

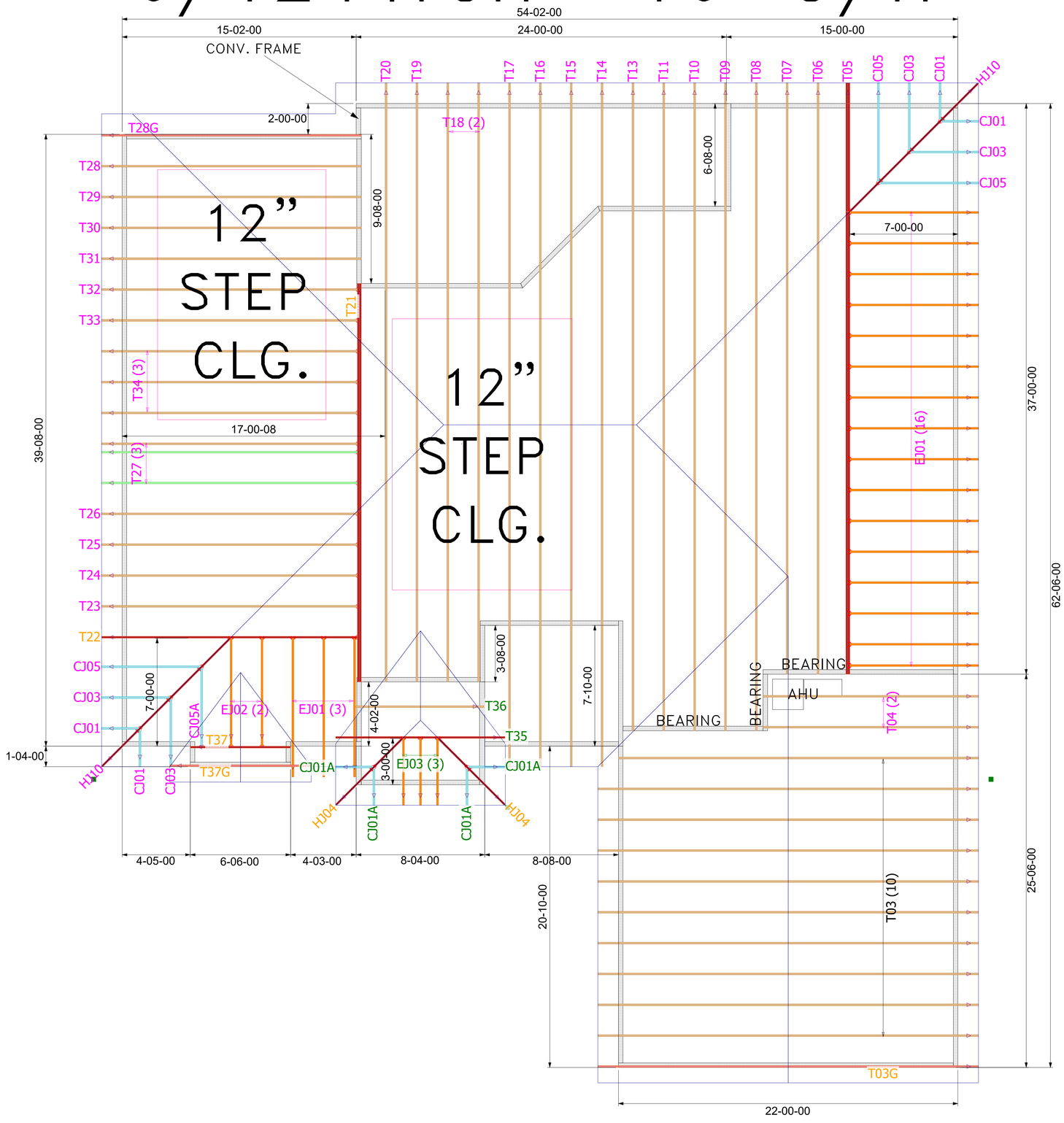
MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

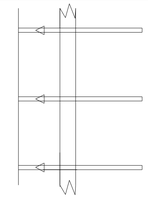
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed 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.

6/12 PITCH – 16" O/H



MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Builders FIRSTSOURCE

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder:
DWC CONTRACTING

Legal Address:
Lot 23 Thornwood

Model:
Custom

Date:	Drawn By:	Original Ref #:
10-3-24	KLH	4260882
Floor 1 Job#	Floor 2 Job#:	Roof Job #:
N/A	N/A	4260882