RE: 4800793
FORT WHITE STATION

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

Site Information:

Customer: DWC CONTRACTING Project Name: 4800793
Lot/Block: 24 Model: Custom
Address: TBD Subdivision: Fort White Station
City: Fort White, State: FL

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

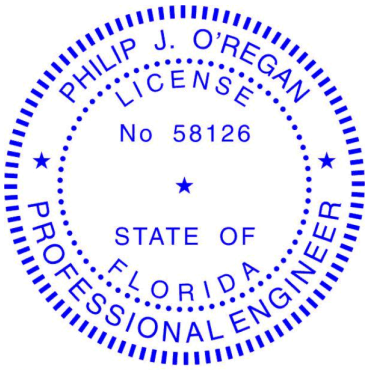
This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T38163557	CJ01	8/11/2025	21	T38163577	T13	8/11/2025
2	T38163558	CJ03	8/11/2025	22	T38163578	T14	8/11/2025
3	T38163559	CJ05	8/11/2025	23	T38163579	T15	8/11/2025
4	T38163560	EJ01	8/11/2025	24	T38163580	T16	8/11/2025
5	T38163561	EJ02	8/11/2025	25	T38163581	T17	8/11/2025
6	T38163562	HJ05	8/11/2025	26	T38163582	T18	8/11/2025
7	T38163563	HJ10	8/11/2025	27	T38163583	T19	8/11/2025
8	T38163564	HJ10A	8/11/2025				
9	T38163565	T01	8/11/2025				
10	T38163566	T02	8/11/2025				
11	T38163567	T03	8/11/2025				
12	T38163568	T04	8/11/2025				
13	T38163569	T05	8/11/2025				
14	T38163570	T06	8/11/2025				
15	T38163571	T07	8/11/2025				
16	T38163572	T08	8/11/2025				
17	T38163573	T09	8/11/2025				
18	T38163574	T10	8/11/2025				
19	T38163575	T11	8/11/2025				
20	T38163576	T12	8/11/2025				

This item has been digitally signed and sealed by ORegan, Philip 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, 2027.
Florida COA: 6634

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



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: August 11, 2025

ORegan, Philip

Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	CJ01	Jack-Open	14	1	T38163557

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:36 2025 Page 1
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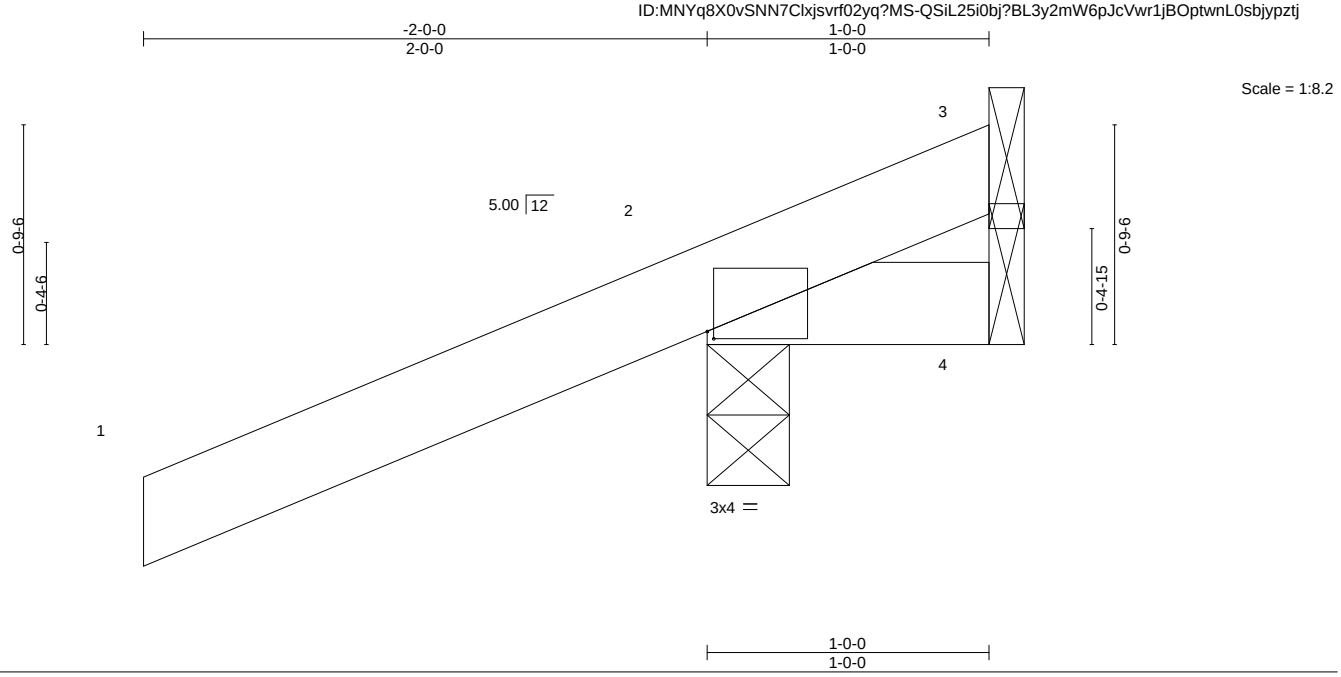

Plate Offsets (X,Y)-- [2:0-0-4,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	10.0	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	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=45(LC 8)
Max Uplift 3=-30(LC 1), 2=-155(LC 8), 4=-52(LC 1)
Max Grav 3=23(LC 8), 2=281(LC 1), 4=35(LC 8)

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; 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 30 lb uplift at joint 3, 155 lb uplift at joint 2 and 52 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.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 11,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	CJ03	Jack-Open	10	1	T38163558
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:36 2025 Page 1
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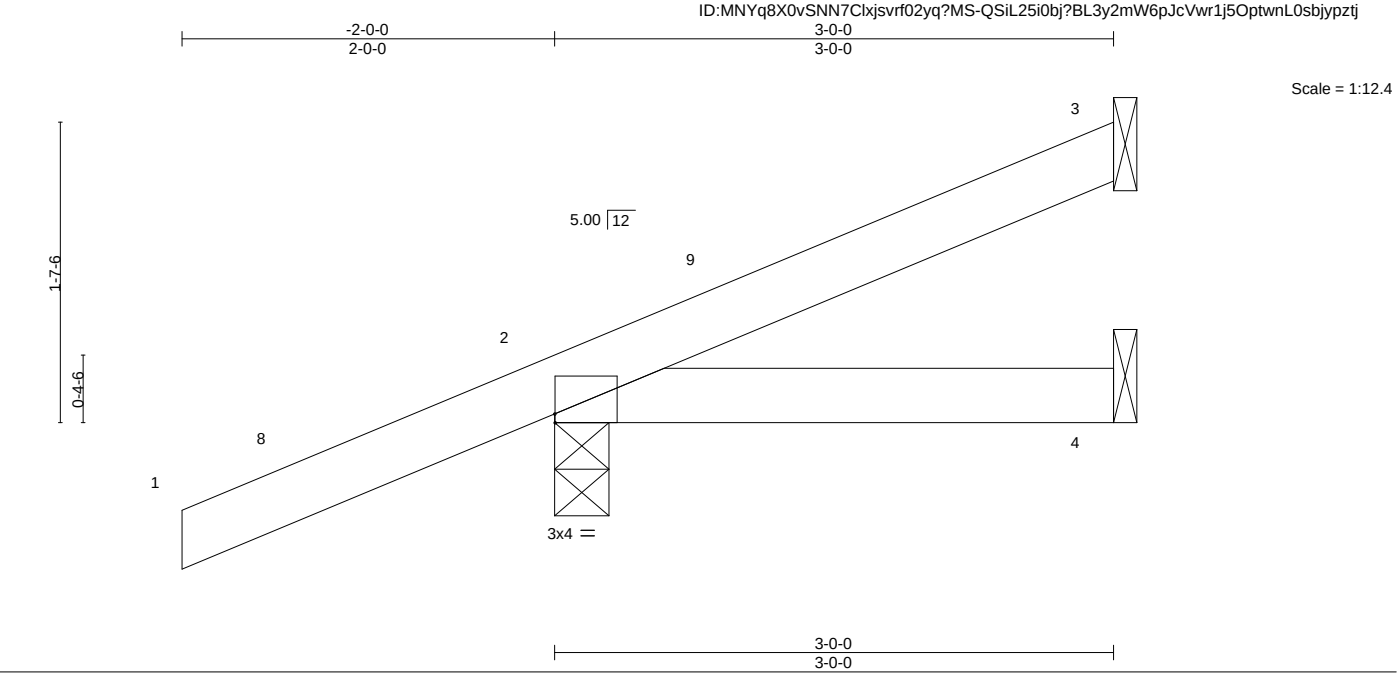

Plate Offsets (X,Y)-- [2:Edge,0-0-9]

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)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	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: 13 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=75(LC 12)
Max Uplift 3=-33(LC 12), 2=-129(LC 8), 4=-16(LC 9)
Max Grav 3=57(LC 1), 2=278(LC 1), 4=47(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3, 129 lb uplift at joint 2 and 16 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:

August 11,2025

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	CJ05	Jack-Open	10	1	T38163559

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:37 2025 Page 1
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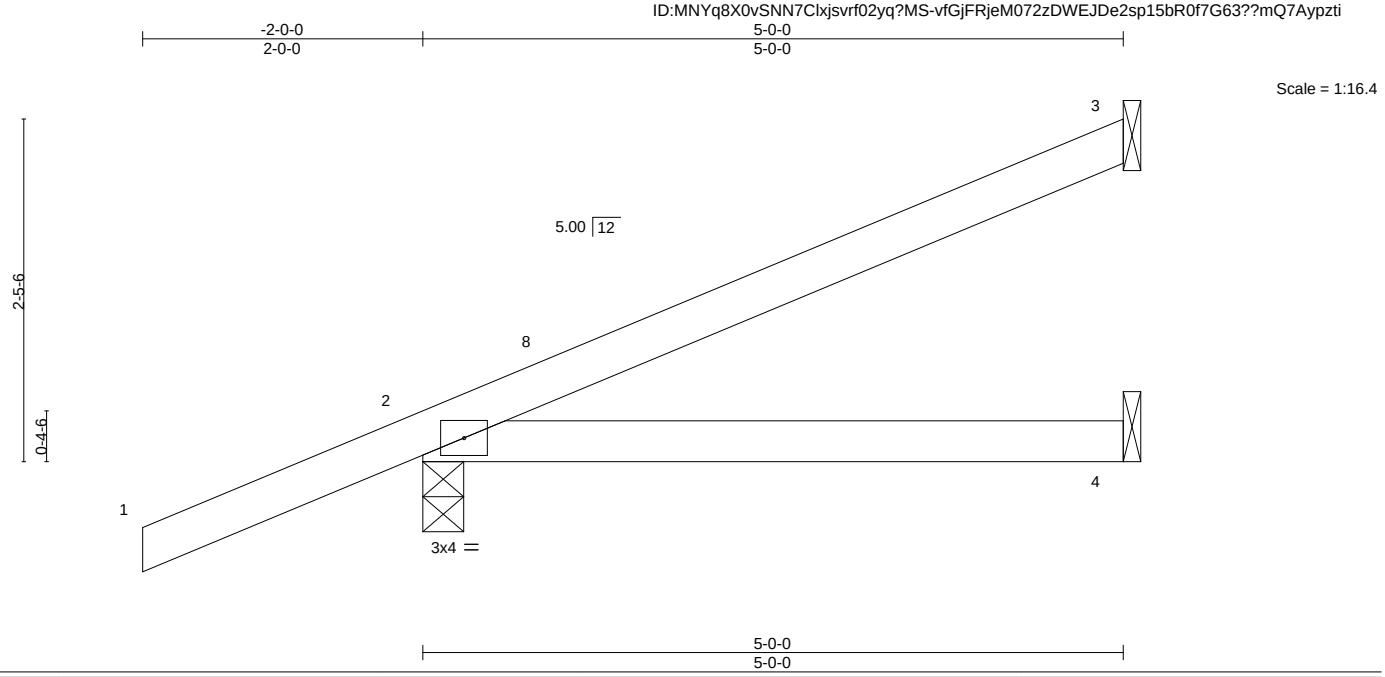

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=107(LC 12)
Max Uplift 3=-68(LC 12), 2=-146(LC 8), 4=-32(LC 9)
Max Grav 3=119(LC 1), 2=342(LC 1), 4=87(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 3, 146 lb uplift at joint 2 and 32 lb uplift at joint 4.

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

August 11,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	EJ01	Jack-Partial	27	1	T38163560

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:37 2025 Page 1

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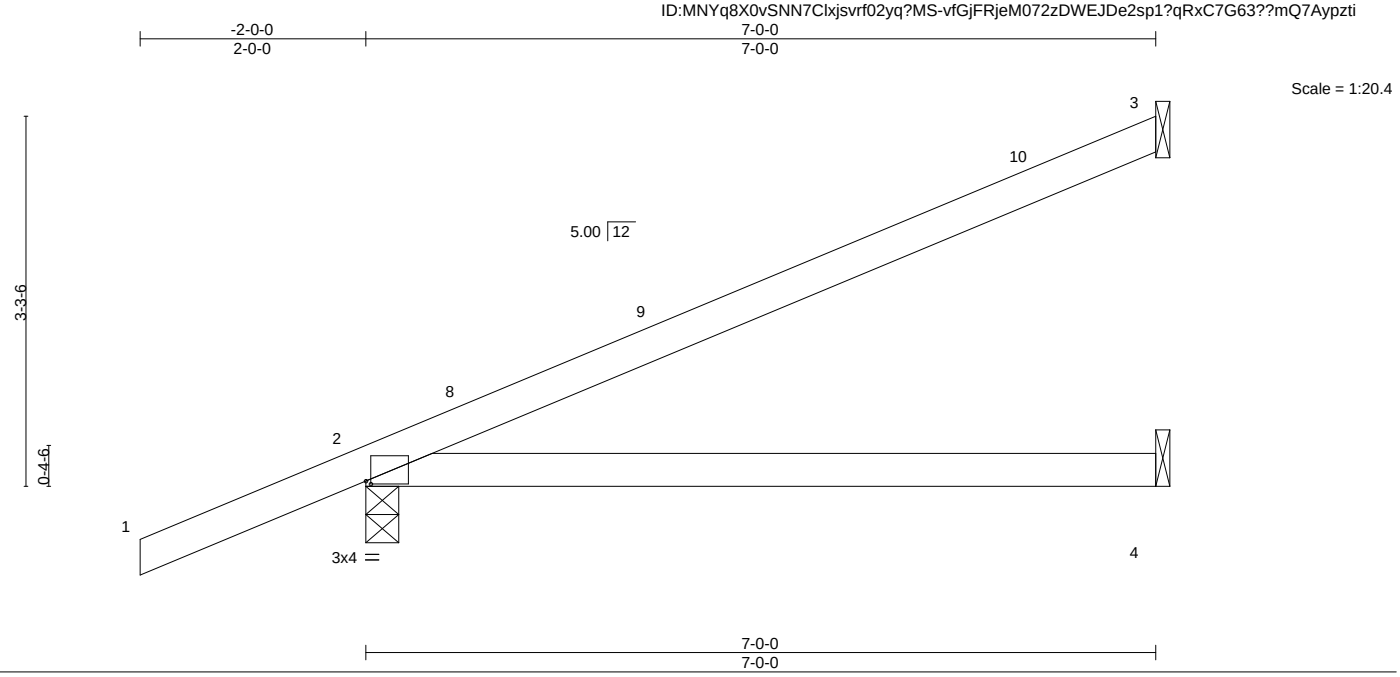

Plate Offsets (X,Y)-- [2:0-0-8,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.09	4-7	>883	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>380	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: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=135(LC 12)

Max Uplift 3=-89(LC 12), 2=-119(LC 12)

Max Grav 3=177(LC 1), 2=415(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 -2-0-0 to 1-0-0, Zone1 1-0-0 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 89 lb uplift at joint 3 and 119 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:

August 11,2025

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	EJ02	Jack-Partial	3	1	T38163561
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:37 2025 Page 1
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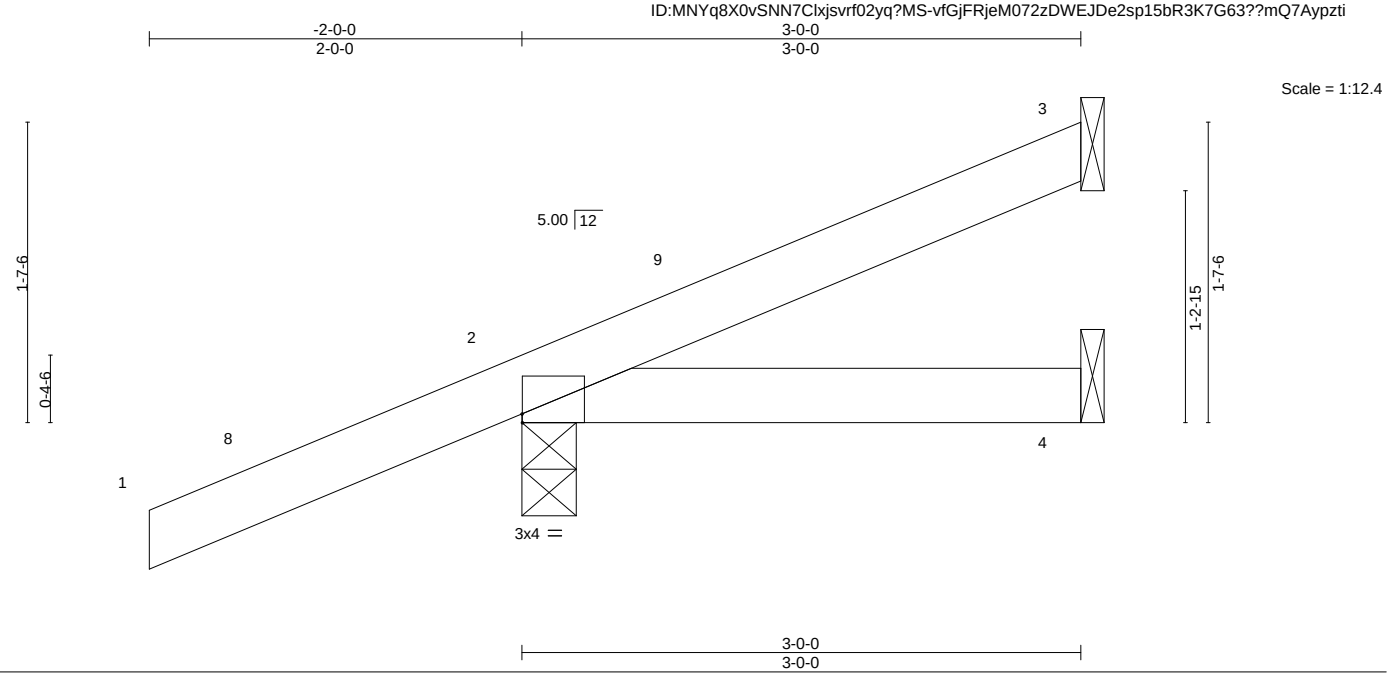

Plate Offsets (X,Y)-- [2:Edge,0-0-9]

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)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	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: 13 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=75(LC 12)
Max Uplift 3=-33(LC 12), 2=-129(LC 8), 4=-16(LC 9)
Max Grav 3=56(LC 1), 2=278(LC 1), 4=47(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3, 129 lb uplift at joint 2 and 16 lb uplift at joint 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 11,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	HJ05	Diagonal Hip Girder	2	1	T38163562
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:38 2025 Page 1
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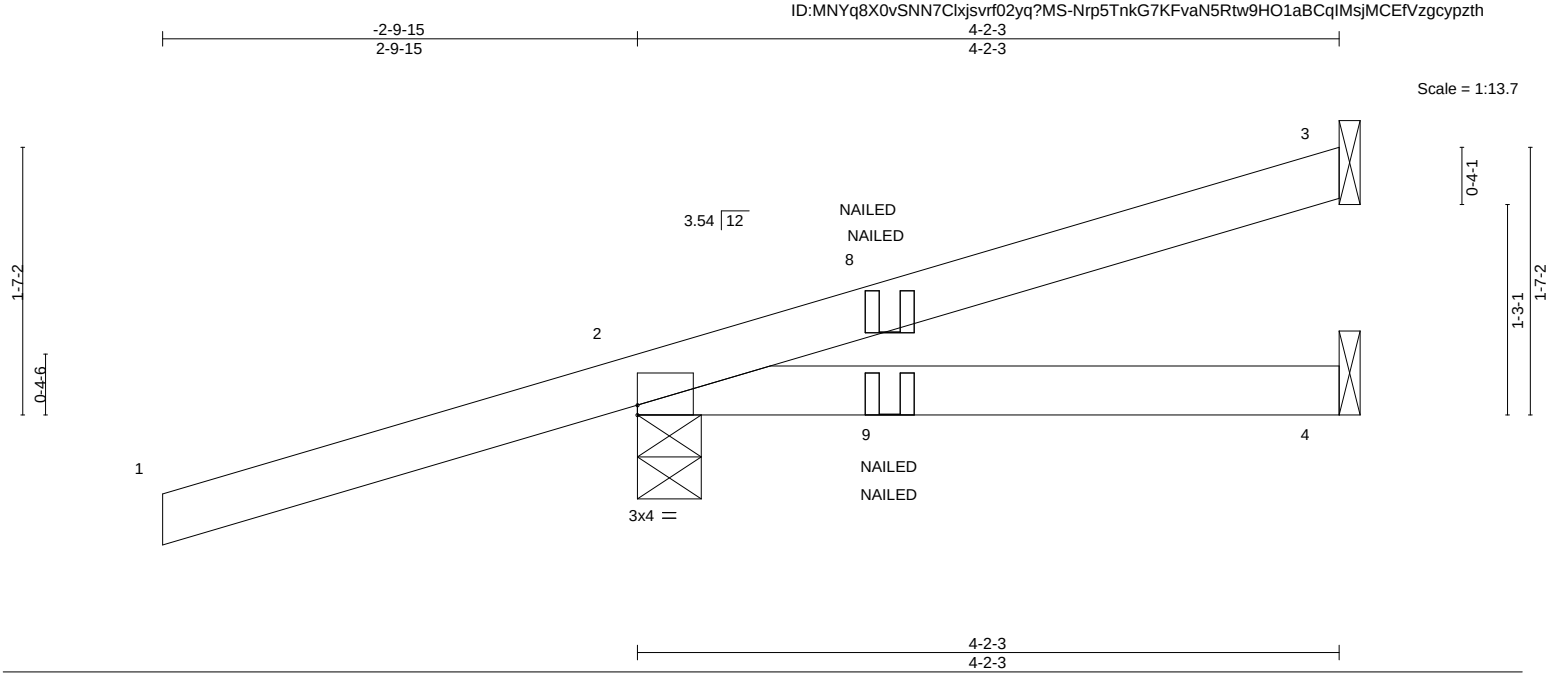

Plate Offsets (X,Y)-- [2:Edge,0-0-11]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.05	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	0.05	4-7	>919	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 17 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 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=90(LC 25)
Max Uplift 3=-26(LC 8), 2=-175(LC 4), 4=-42(LC 21)
Max Grav 3=64(LC 38), 2=295(LC 1), 4=54(LC 33)

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; 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 26 lb uplift at joint 3, 175 lb uplift at joint 2 and 42 lb uplift at joint 4.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 8=72(F=36, B=36) 9=82(F=41, B=41)

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Date:

August 11,2025

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	HJ10	Diagonal Hip Girder	4	1	T38163563

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:39 2025 Page 1

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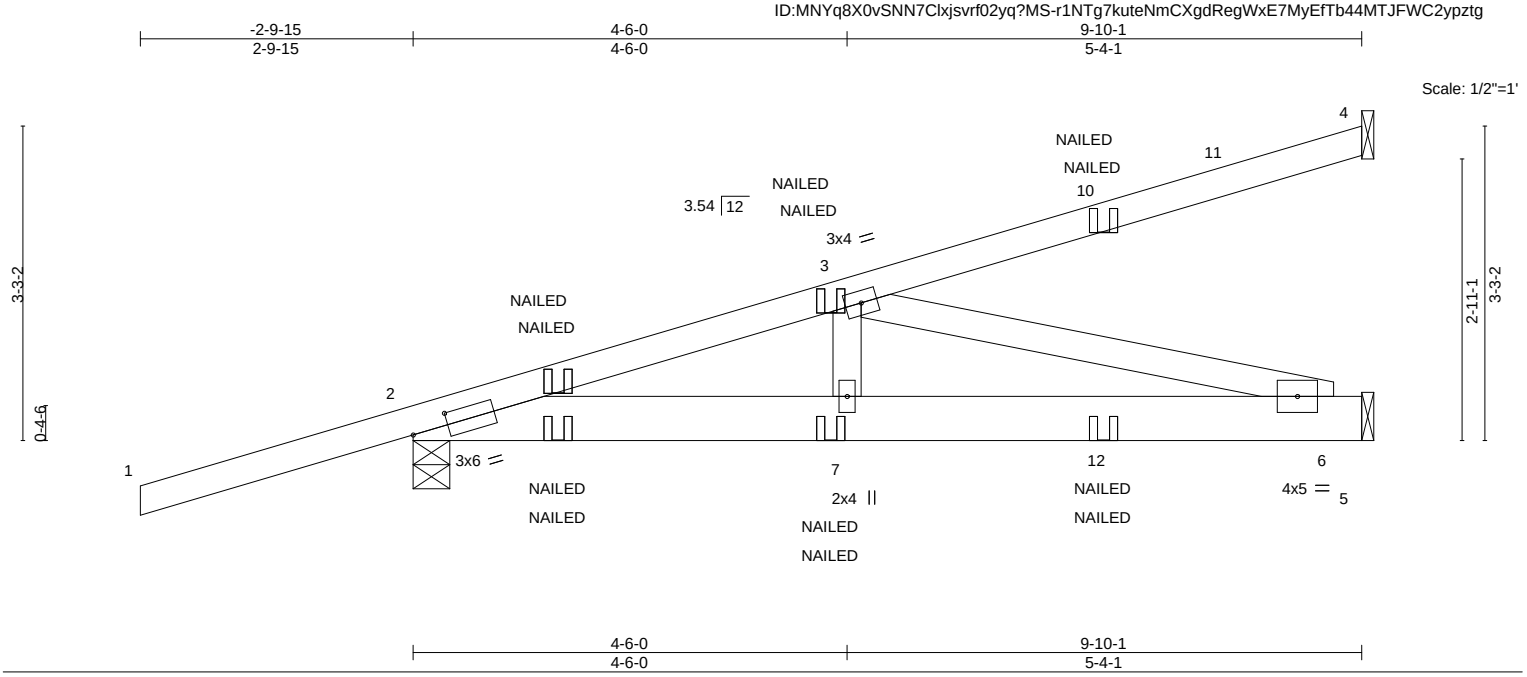

Plate Offsets (X,Y)-- [2:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.04	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 52 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) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=150(LC 4)
Max Uplift 4=-82(LC 4), 2=-251(LC 4), 5=-137(LC 8)
Max Grav 4=161(LC 1), 2=482(LC 1), 5=283(LC 3)

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

TOP CHORD	2-3=-778/381
BOT CHORD	2-7=-420/734, 6-7=-420/734
WEBS	3-6=-758/434

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 82 lb uplift at joint 4, 251 lb uplift at joint 2 and 137 lb uplift at joint 5.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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=-60, 2-5=-20
   Concentrated Loads (lb)
   Vert: 7=4(F=2, B=2) 8=72(F=36, B=36) 9=82(F=41, B=41) 10=-68(F=-34, B=-34) 12=-52(F=-26, B=-26)

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Date:

August 11,2025

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	HJ10A	Diagonal Hip Girder	1	1	T38163564

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:39 2025 Page 1

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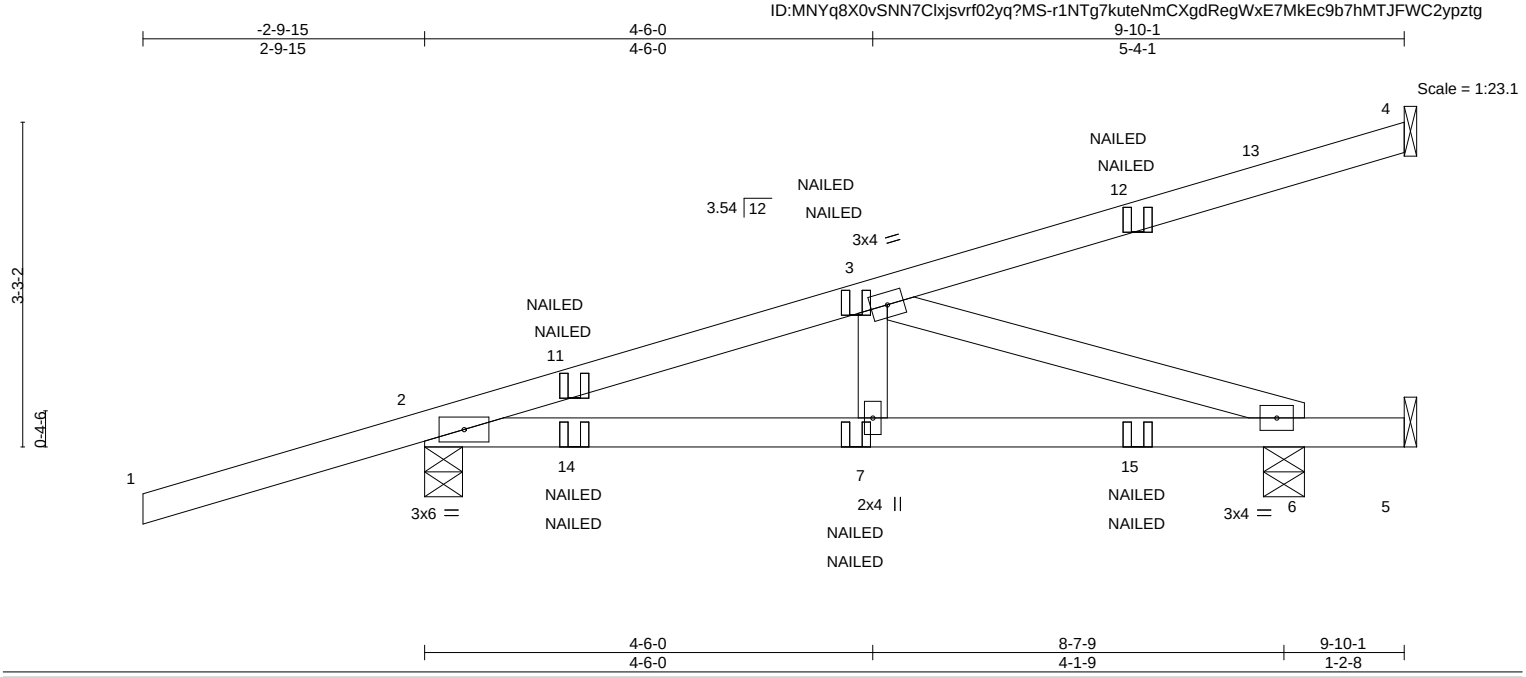

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.05	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	0.05	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	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. All bearings Mechanical except (jt=length) 2=0-4-9, 6=0-4-15.
(lb) - Max Horz 2=150(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 2=-237(LC 4), 5=-111(LC 3), 6=-228(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=446(LC 38), 6=433(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-601/292
BOT CHORD 2-7=-323/552, 6-7=-323/552
WEBS 3-6=-580/340

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; porch left 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=237, 5=111, 6=228.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=4(F=2, B=2) 11=72(F=36, B=36) 12=-68(F=-34, B=-34) 14=82(F=41, B=41) 15=-52(F=-26, B=-26)

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Date:

August 11,2025

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T01	Hip Girder	1	1	T38163565
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:40 2025 Page 1
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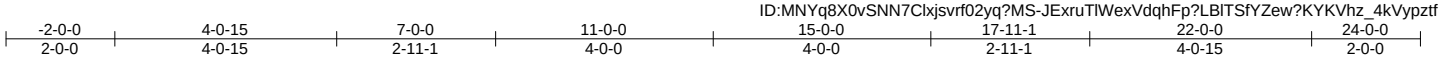

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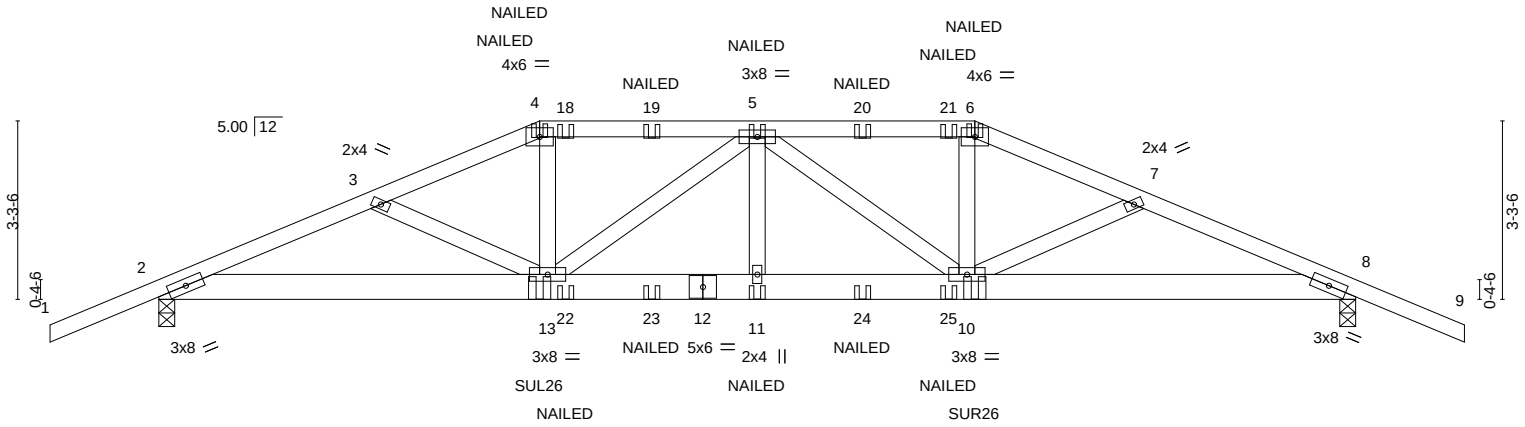

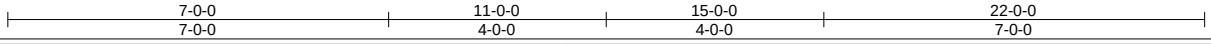

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.15	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.31	11	>857	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 127 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 2-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=63(LC 12)
Max Uplift 2=-586(LC 8), 8=-586(LC 9)
Max Grav 2=1769(LC 1), 8=1769(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3772/1251, 3-4=-3571/1184, 4-5=-3321/1127, 5-6=-3321/1127, 6-7=-3571/1184, 7-8=-3772/1251
BOT CHORD 2-13=-1144/3448, 11-13=-1177/3826, 10-11=-1177/3826, 8-10=-1081/3448
WEBS 4-13=-235/931, 5-13=-684/217, 5-11=0/292, 5-10=-684/216, 6-10=-235/931

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=586, 8=586.
8) Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
9) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 15-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
10) Fill all nail holes where hanger is in contact with lumber.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20

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Date:

August 11,2025

Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-76(F) 6=-76(F) 13=-242(F) 11=-63(F) 5=-117(F) 10=-242(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-63(F) 23=-63(F) 24=-63(F) 25=-63(F)

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T02	Hip	1	1	T38163566
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:41 2025 Page 1
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-2-0-0	4-10-1	9-0-0	13-0-0	17-1-15	22-0-0	24-0-0
2-0-0	4-10-1	4-1-15	4-0-0	4-1-15	4-10-1	2-0-0

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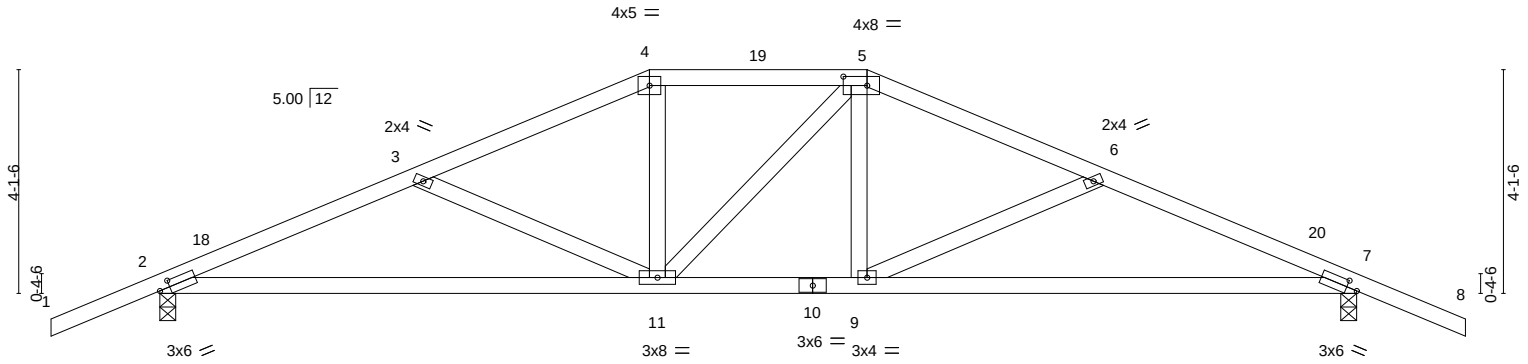

9-0-0	13-0-0	22-0-0
9-0-0	4-0-0	9-0-0

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [5:0-5-4,0-2-0], [7:0-2-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.16	9-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.33	9-17	>792	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 106 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=77(LC 12)
Max Uplift 2=-266(LC 12), 7=-266(LC 13)
Max Grav 2=1000(LC 1), 7=1000(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1715/427, 3-4=-1377/306, 4-5=-1230/309, 5-6=-1376/306, 6-7=-1715/427
BOT CHORD 2-11=-392/1557, 9-11=-169/1229, 7-9=-316/1557
WEBS 3-11=-373/196, 4-11=-41/329, 5-9=-43/329, 6-9=-373/196

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone3 9-0-0 to 13-0-0, Zone2 13-0-0 to 17-4-3, Zone1 17-4-3 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 7=266.

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Date:

August 11,2025

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T03	Common	3	1	T38163567
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:41 2025 Page 1
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-2-0-0 6-10-0 11-0-0 15-2-0 22-0-0 24-0-0
2-0-0 6-10-0 4-2-0 4-2-0 6-10-0 2-0-0

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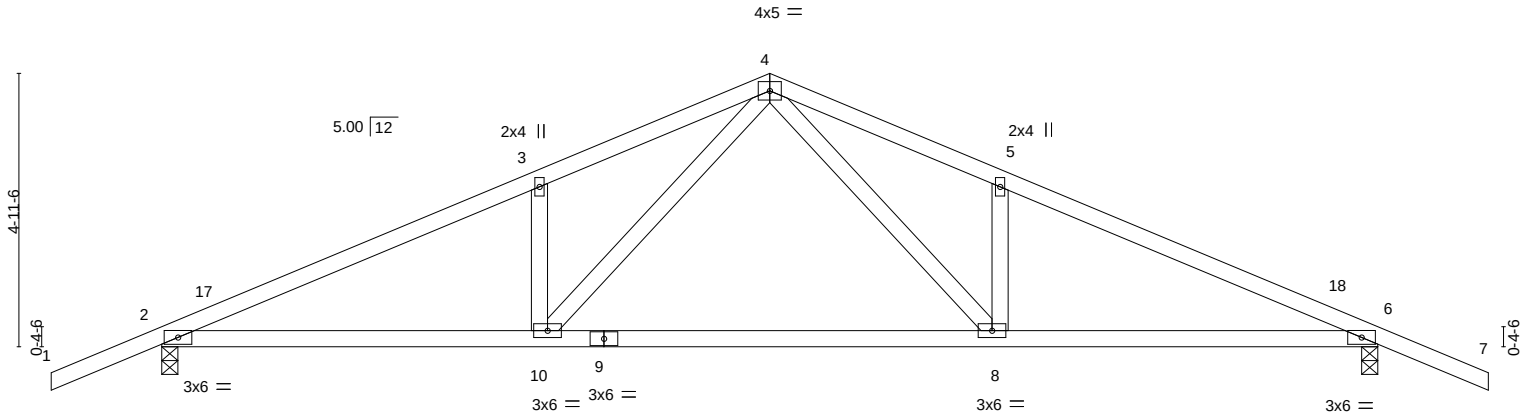

6-10-0 15-2-0 22-0-0
6-10-0 8-4-0 6-10-0

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	0.52	Vert(LL)	-0.24	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.54	8-10	>493	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-90(LC 13)
Max Uplift 2=-339(LC 12), 6=-339(LC 13)
Max Grav 2=1250(LC 1), 6=1250(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2385/575, 3-4=-2364/669, 4-5=-2364/669, 5-6=-2385/576
BOT CHORD 2-10=-524/2131, 8-10=-290/1429, 6-8=-434/2131
WEBS 4-8=-351/1064, 5-8=-324/209, 4-10=-351/1064, 3-10=-324/208

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-0, Zone1 15-2-0 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=339, 6=339.
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=-60, 4-7=-60, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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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:

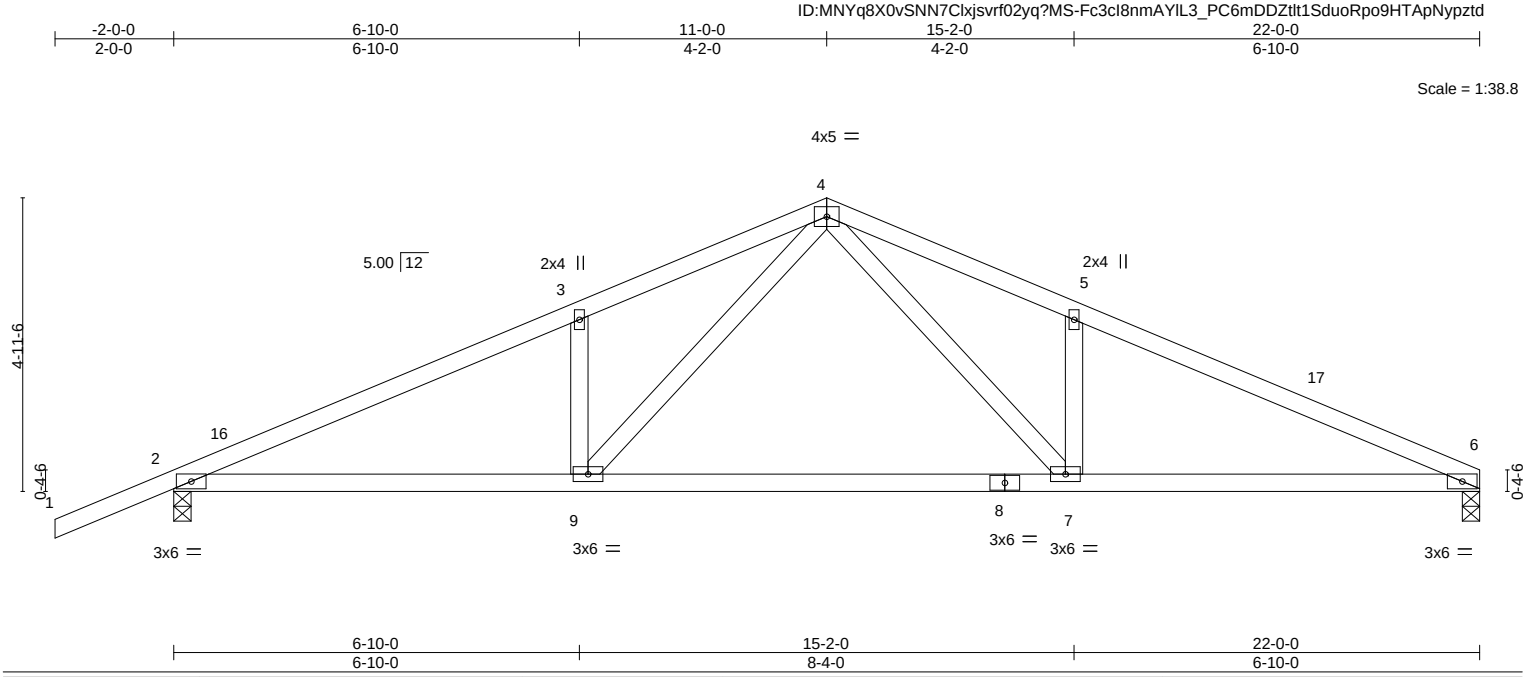
August 11,2025

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

Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T04	Common	3	1	T38163568

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:42 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-Fc3cI8nmAYlL3_PC6mDDZtlt1SduoRpo9HTApNypztd



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	0.56	Vert(LL)	-0.23	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.53	7-9	>500	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins.
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=104(LC 16)
Max Uplift 6=-287(LC 13), 2=-340(LC 12)
Max Grav 6=1125(LC 1), 2=1255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2397/605, 3-4=-2376/679, 4-5=-2408/692, 5-6=-2424/622
BOT CHORD 2-9=-540/2142, 7-9=-306/1443, 6-7=-505/2170
WEBS 4-7=-370/1102, 5-7=-338/215, 4-9=-350/1063, 3-9=-325/209

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-0, Zone1 15-2-0 to 22-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=287, 2=340.
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=-60, 4-6=-60, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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Date:

August 11,2025

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T05	Half Hip Girder	1	1	T38163569

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:43 2025 Page 1

ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-jod_WUoPxsuBh8_OgUkS54HyxrvqXmiyOxDkLpypztc

-2-0-0	4-0-15	7-0-0	11-4-15	15-8-13	21-5-15	24-6-4	27-4-0
2-0-0	4-0-15	2-11-1	4-4-15	4-3-14	5-9-2	3-0-5	2-9-13

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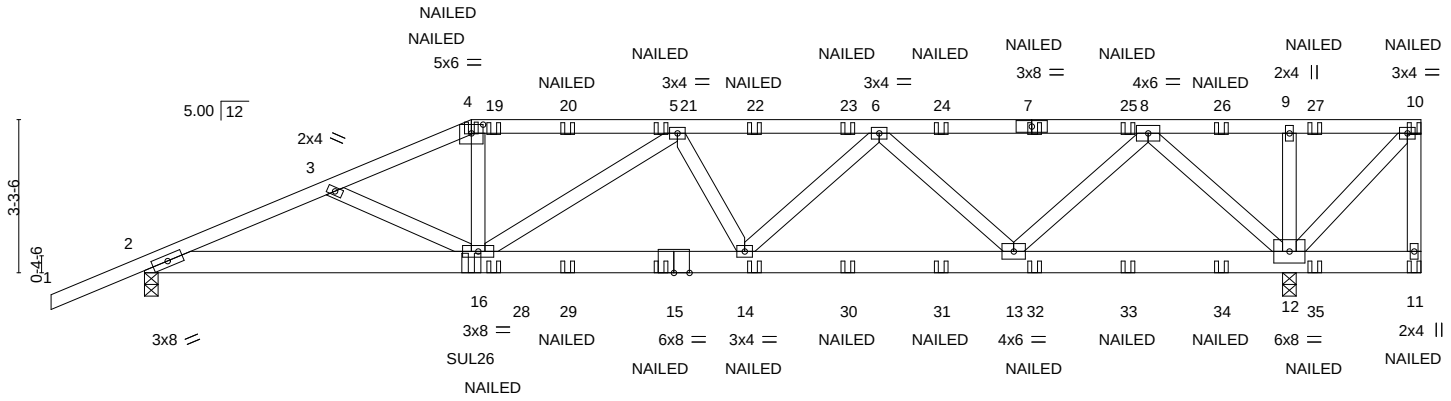

7-0-0	12-10-4	18-7-6	24-6-4	24-8-0	27-4-0
7-0-0	5-10-4	5-9-2	5-10-14	0-1-12	2-8-1

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.18	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.37	14-16	>797	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 164 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 1-10-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=141(LC 8)
Max Uplift 2=-605(LC 8), 12=-810(LC 5)
Max Grav 2=1915(LC 1), 12=2710(LC 1)

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

TOP CHORD	2-3=-4154/1297, 3-4=-3969/1234, 4-5=-3697/1175, 5-6=-4329/1250, 6-8=-2964/810
BOT CHORD	2-16=-1265/3797, 14-16=-1330/4363, 13-14=-1183/3955, 12-13=-526/1698
WEBS	4-16=-235/1038, 5-16=-855/224, 6-14=-120/559, 6-13=-1407/538, 8-13=-413/1798, 8-12=-2677/840, 9-12=-288/139, 10-12=-347/151

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; cantilever 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) 2=605, 12=810.
8) Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
9) Fill all nail holes where hanger is in contact with lumber.
10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) 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=-60, 4-10=-60, 2-11=-20

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Date:

August 11,2025

Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-76(F) 7=-117(F) 10=-139(F) 11=-71(F) 15=-63(F) 16=-242(F) 14=-63(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-117(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F) 27=-117(F) 28=-63(F) 29=-63(F) 30=-63(F) 31=-63(F) 32=-63(F) 33=-63(F) 34=-63(F) 35=-63(F)

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T06	Half Hip	1	1	T38163570

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:43 2025 Page 1

ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-jod_WUoPxsuBh8_OgUkS54H_WrwaXr?yOxDkLypyztc

-2-0-0	4-10-1	9-0-0	16-10-0	24-8-0	27-4-0
2-0-0	4-10-1	4-1-15	7-10-0	7-10-0	2-8-1

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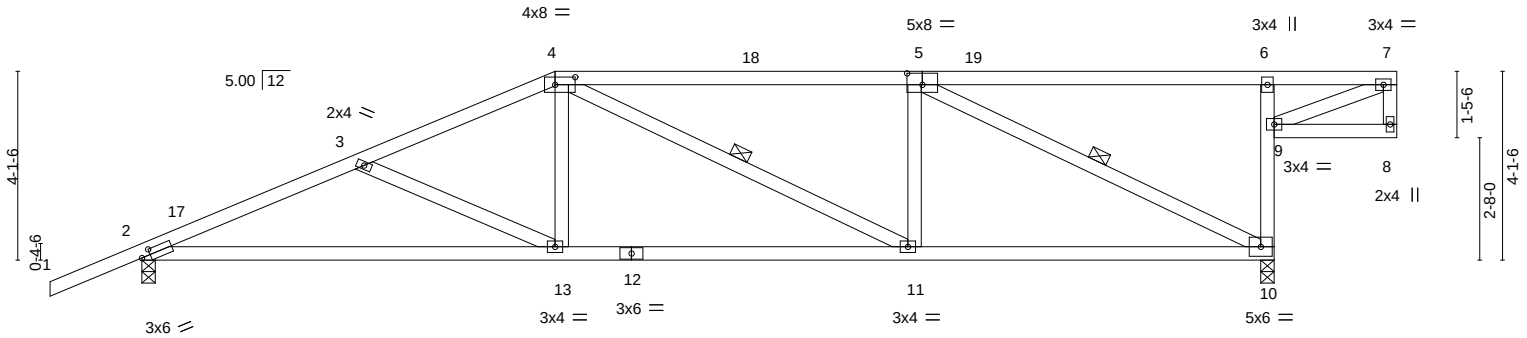

9-0-0	16-10-0	24-8-0
9-0-0	7-10-0	7-10-0

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-5-4,0-2-0], [5:0-4-0,0-3-0]

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	0.77	Vert(LL)	-0.14	13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.31	13-16	>953	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 138 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 2-2-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 9-10
BOT CHORD	Rigid ceiling directly applied or 7-6-12 oc bracing.
WEBS	1 Row at midpt 4-11, 5-10

REACTIONS. (size) 10=0-3-8, 2=0-3-8
Max Horz 2=173(LC 12)
Max Uplift 10=-402(LC 9), 2=-322(LC 12)
Max Grav 10=1201(LC 1), 2=1094(LC 1)

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

TOP CHORD	2-3=-1945/559, 3-4=-1638/455, 4-5=-1398/401, 9-10=-426/219, 6-9=-344/180
BOT CHORD	2-13=-610/1765, 11-13=-452/1480, 10-11=-404/1389
WEBS	3-13=-324/173, 4-13=-20/409, 5-11=0/369, 5-10=-1558/449

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 27-2-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=402, 2=322.

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Date:

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T07	Hip	1	1	T38163571
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:44 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-B?BMjqo1iA02IIZbEBGheIqERFKxGLH5cayHtGypztb

-2-0-0	5-10-0	11-0-0	17-1-12	23-0-0	24-8-0	27-4-0
2-0-0	5-10-0	5-2-0	6-1-12	5-10-4	1-8-0	2-8-1

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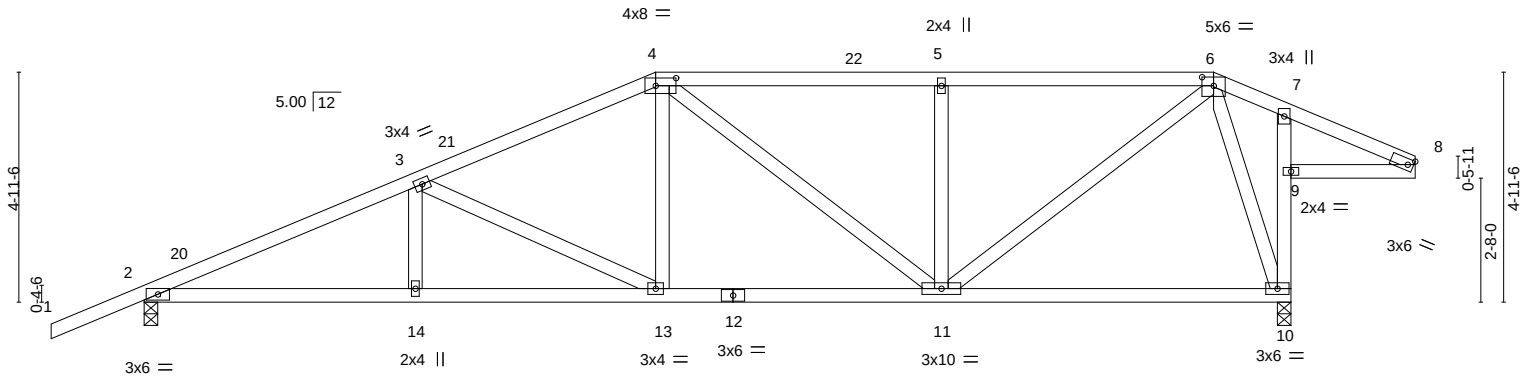

5-10-0	11-0-0	17-1-12	24-8-0
5-10-0	5-2-0	6-1-12	7-6-4

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.09	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.20	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 145 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 3-11-8 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 9-10
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=161(LC 12)
Max Uplift 2=-318(LC 12), 10=-345(LC 9)
Max Grav 2=1097(LC 25), 10=1214(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1967/522, 3-4=-1433/404, 4-5=-1115/338, 5-6=-1115/338, 9-10=-318/194, 7-9=-269/151
BOT CHORD 2-14=-558/1763, 13-14=-558/1763, 11-13=-362/1273, 10-11=-69/260
WEBS 3-13=-553/219, 4-13=-62/389, 5-11=-418/209, 6-11=-280/1103, 6-10=-875/265

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 23-0-0, Zone3 23-0-0 to 27-4-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=318, 10=345.

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T08	Hip	1	1	T38163572
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:44 2025 Page 1
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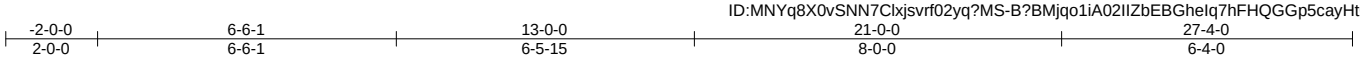

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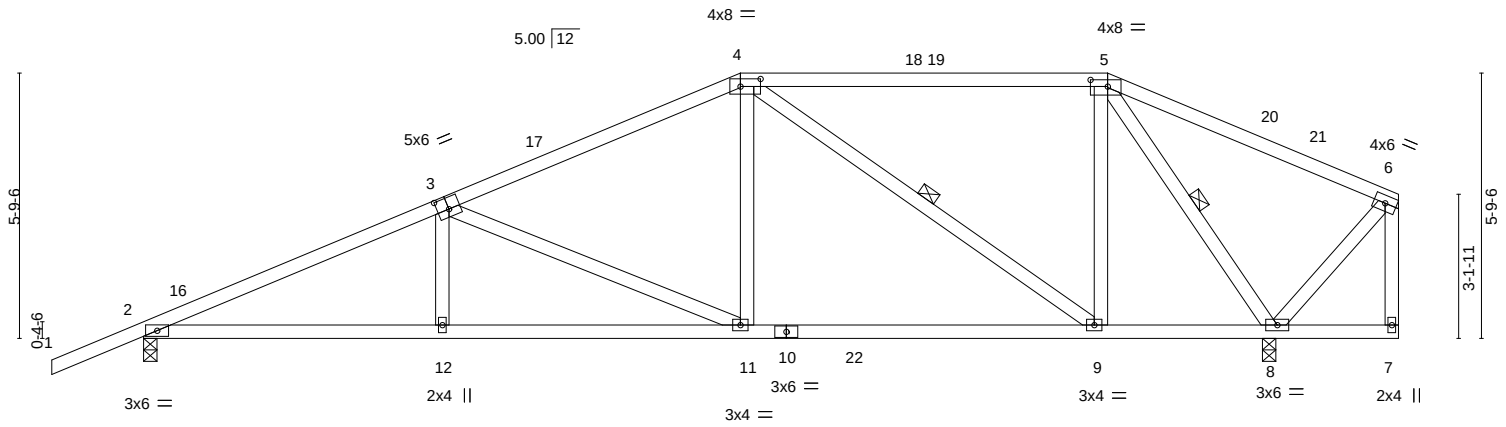

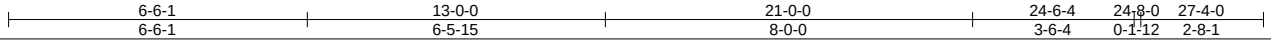

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-5-4,0-2-0], [5:0-4-8,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.12	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.23	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 149 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-10 oc bracing.
WEBS 1 Row at midpt 4-9, 5-8

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=180(LC 12)
Max Uplift 2=-314(LC 12), 8=-305(LC 9)
Max Grav 2=1153(LC 2), 8=1292(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2089/504, 3-4=-1381/343, 4-5=-624/189
BOT CHORD 2-12=-555/1882, 11-12=-556/1875, 9-11=-300/1231, 8-9=-122/607
WEBS 3-12=0/257, 3-11=-718/280, 4-11=-65/579, 4-9=-755/227, 5-9=-90/665, 5-8=-1279/273

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 21-0-0, Zone2 21-0-0 to 25-2-15, Zone1 25-2-15 to 27-2-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 8=305.

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Date:

August 11,2025

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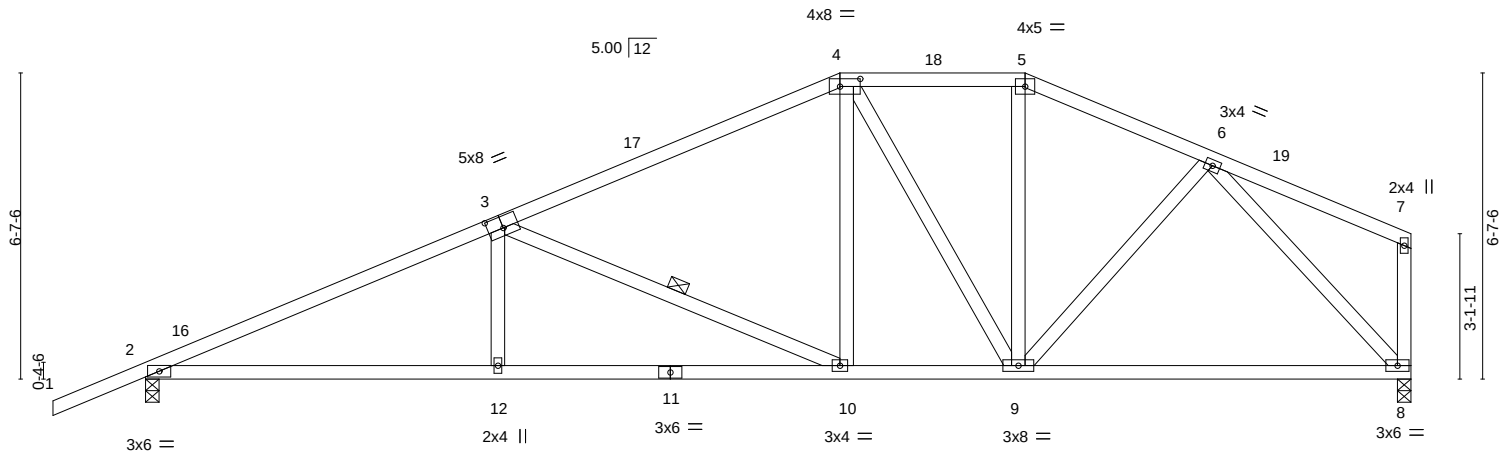
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T09	Hip	1	1	T38163573
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:45 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-gBkkxApfTT8vwS8nnvnwAVNN4fde?hMErEirPiypzta

-2-0-0	7-7-5	15-0-0	19-0-0	22-10-14	27-4-0
2-0-0	7-7-5	7-4-11	4-0-0	3-10-14	4-5-3

Scale = 1:49.8



7-7-5	15-0-0	19-0-0	27-4-0
7-7-5	7-4-11	4-0-0	8-4-0

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [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	0.64	Vert(LL)	-0.15	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.31	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 154 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 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-14 oc bracing.
WEBS 1 Row at midpt 3-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=194(LC 12)
Max Uplift 2=-333(LC 12), 8=-233(LC 13)
Max Grav 2=1212(LC 1), 8=1083(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2178/537, 3-4=-1358/345, 4-5=-1008/279, 5-6=-1140/289
BOT CHORD 2-12=-590/1945, 10-12=-591/1942, 9-10=-287/1174, 8-9=-176/826
WEBS 3-12=0/331, 3-10=-850/334, 4-10=-103/439, 4-9=-379/160, 5-9=-65/252, 6-9=-40/330, 6-8=-1183/266

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone3 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-0-1, Zone1 23-0-1 to 27-2-4 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) 2=333, 8=233.

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Date:

August 11,2025

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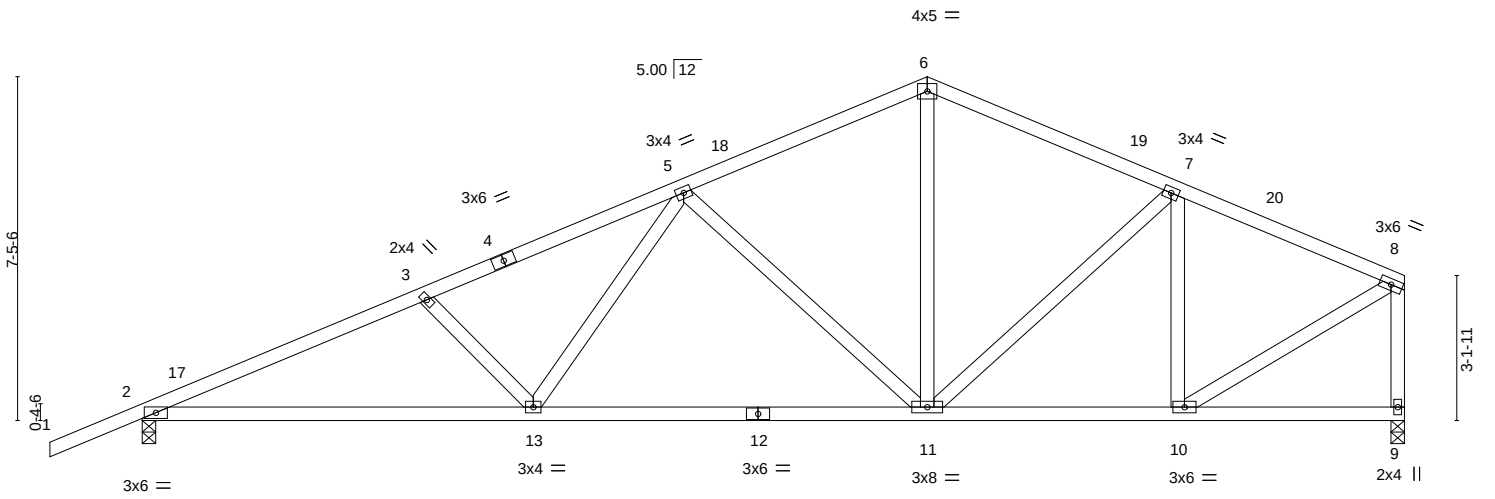
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T10	Common	3	1	T38163574
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:45 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-gBkkxApfTT8vwS8nnvnwAVNRdfcK?kVErEirPiypzta

-2-0-0	6-1-15	11-8-11	17-0-0	22-5-2	27-4-0
2-0-0	6-1-15	5-6-12	5-3-5	5-5-2	4-10-15

Scale = 1:49.9



8-5-10	17-0-0	22-5-2	27-4-0
8-5-10	8-6-6	5-5-2	4-10-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.12	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.28	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 151 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-5-2 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=208(LC 12)
Max Uplift 2=-330(LC 12), 9=-230(LC 13)
Max Grav 2=1212(LC 1), 9=1083(LC 1)

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

TOP CHORD	2-3=-2214/554, 3-5=-1967/501, 5-6=-1137/301, 6-7=-1138/316, 7-8=-1030/235, 8-9=-1036/256
BOT CHORD	2-13=-631/1991, 11-13=-428/1473, 10-11=-183/909
WEBS	3-13=-345/203, 5-13=-117/551, 5-11=-673/292, 6-11=-127/532, 7-10=-449/139, 8-10=-210/1039

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 27-2-4 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) 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) 2=330, 9=230.

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Date:

August 11,2025

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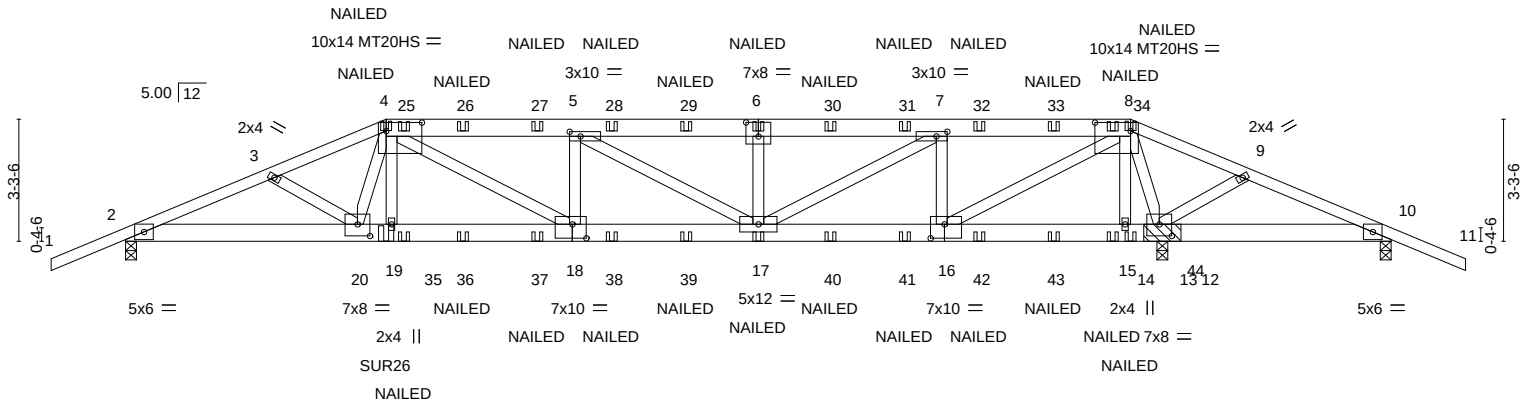
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T11	Hip Girder	1	1	T38163575
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:47 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-casVMsrv?5Od9mH9vJpOGwSfGTGqTYVXIYBxUbypztY

-2-0-0	3-11-15	7-0-0	12-0-14	17-0-0	21-11-2	27-0-0	30-0-1	34-0-0	36-0-0
2-0-0	3-11-15	3-0-1	5-0-14	4-11-2	4-11-2	5-0-14	3-0-1	3-11-15	2-0-0

Scale = 1:61.9



6-2-12	7-0-0	12-0-14	17-0-0	21-11-2	27-0-0	27-9-4	27-10-4	34-0-0
6-2-12	0-9-4	5-0-14	4-11-2	4-11-2	5-0-14	0-9-4	0-1-0	6-1-12

Plate Offsets (X,Y)-- [4:0-11-8,0-2-12], [5:0-3-8,0-1-8], [6:0-4-0,0-4-8], [7:0-3-8,0-1-8], [8:0-11-8,0-2-12], [13:0-4-0,0-3-12], [16:0-4-8,0-4-8], [18:0-4-8,0-4-8], [20:0-4-0,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	-0.22	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.45	17-18	>741	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 222 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-6,6-8: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-18,5-17,7-17,8-16: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-3-1 oc bracing.

REACTIONS. (size) 2=0-3-8, 13=(0-3-8 + bearing block) (req. 0-4-12), 10=0-3-8
Max Horz 2=-61(LC 41)
Max Uplift 2=-626(LC 8), 13=-1273(LC 4), 10=-963(LC 21)
Max Grav 2=1986(LC 21), 13=4022(LC 1), 10=277(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4333/1349, 3-4=-4175/1302, 4-5=-4842/1450, 5-6=-4167/1225, 6-7=-4167/1225, 7-8=-2028/620, 8-9=-792/2883, 9-10=-755/2748
BOT CHORD 2-20=-1234/3965, 19-20=-1147/3838, 18-19=-1155/3868, 17-18=-1368/4845, 16-17=-534/2072, 15-16=-1715/549, 13-15=-1704/543, 10-13=-2522/741
WEBS 4-19=-158/595, 4-18=-289/1174, 5-18=-345/220, 5-17=-790/312, 6-17=-555/277, 7-17=-691/2424, 7-16=-1884/682, 8-16=-1221/4280, 8-13=-3588/1052

NOTES-
1) 2x6 SP No.2 bearing block 12" long at jt. 13 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-22; 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; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) The Fabrication Tolerance at joint 4 = 0%, joint 8 = 0%
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) except (jt=lb) 2=626, 13=1273, 10=963.
11) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-8=-60, 8-11=-60, 2-10=-20
   Concentrated Loads (lb)
   Vert: 4=-76(B) 8=-79(B) 19=-242(B) 17=-63(B) 6=-117(B) 15=97(B) 25=-117(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 32=-117(B) 33=-117(B) 34=-117(B) 35=-63(B) 36=-63(B) 37=-63(B) 38=-63(B) 39=-63(B) 40=-63(B) 41=-63(B) 42=-63(B) 43=-63(B) 44=-63(B)

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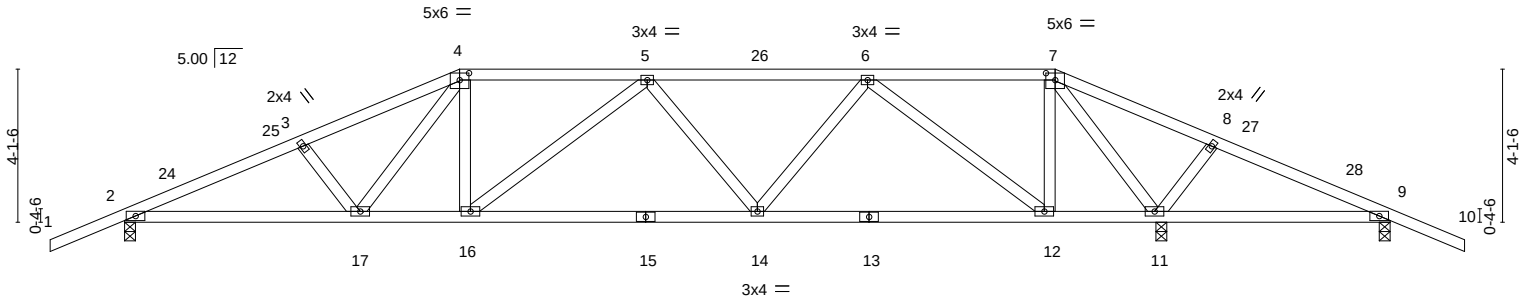
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T12	Hip	1	1	T38163576
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:48 2025 Page 1

ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-4mQtZCrXmOWUnvsMT1Kdo8?wdsebC0uhXCwV01ypztX

-2-0-0	4-9-8	9-0-0	14-0-8	19-11-8	25-0-0	29-2-8	34-0-0	36-0-0
2-0-0	4-9-8	4-2-8	5-0-8	5-11-0	5-0-8	4-2-8	4-9-8	2-0-0

Scale = 1:61.9



6-1-12	9-0-0	17-0-0	25-0-0	27-10-4	34-0-0
6-1-12	2-10-4	8-0-0	8-0-0	2-10-4	6-1-12

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.11	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.26	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 172 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 3-11-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz 2=-77(LC 13)
Max Uplift 2=-325(LC 12), 11=-511(LC 8), 9=-241(LC 25)
Max Grav 2=1137(LC 1), 11=1865(LC 1), 9=58(LC 12)

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

TOP CHORD	2-3=-2087/563, 3-4=-1927/538, 4-5=-1554/455, 5-6=-1469/436, 7-8=-231/1109, 8-9=-221/958
BOT CHORD	2-17=-520/1884, 16-17=-359/1546, 14-16=-406/1670, 12-14=-273/1137, 9-11=-860/241
WEBS	3-17=-253/152, 4-17=-116/315, 4-16=-39/282, 5-16=-262/115, 5-14=-328/195, 6-14=-131/542, 6-12=-1275/388, 7-12=-181/877, 7-11=-1869/446, 8-11=-296/162

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 -2-0-0 to 1-4-13, Zone1 1-4-13 to 9-0-0, Zone2 9-0-0 to 14-0-8, Zone1 14-0-8 to 25-0-0, Zone2 25-0-0 to 29-9-11, Zone1 29-9-11 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=325, 11=511, 9=241.

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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:

August 11,2025

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

Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T13	Hip	1	1	T38163577
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:48 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-4mQtZCrXmOWUnvsMT1Kdo8?vEshEC6XhXCwV01ypztX

-2-0-0	6-1-12	11-0-0	17-0-0	23-0-0	27-10-4	34-0-0	36-0-0
2-0-0	6-1-12	4-10-4	6-0-0	6-0-0	4-10-4	6-1-12	2-0-0

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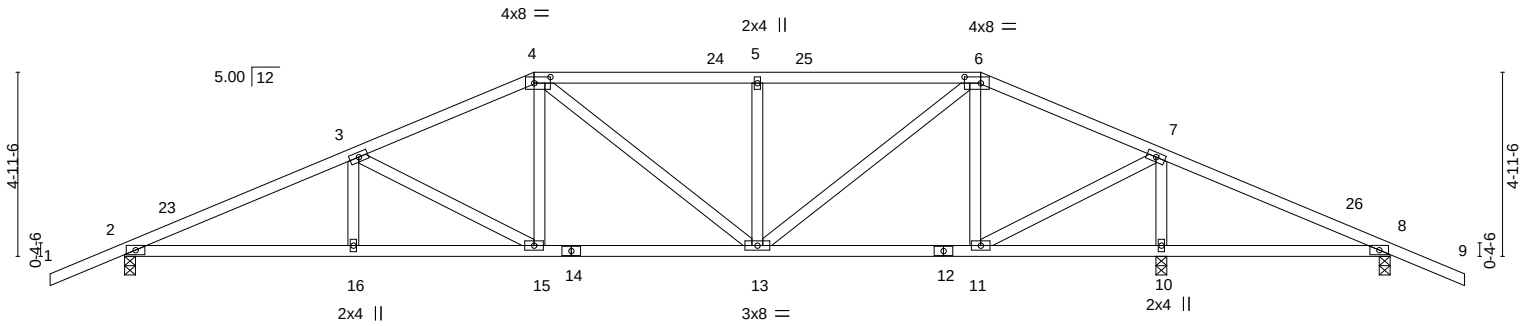

6-1-12	11-0-0	17-0-0	23-0-0	27-10-4	34-0-0
6-1-12	4-10-4	6-0-0	6-0-0	4-10-4	6-1-12

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

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	0.51	Vert(LL)	-0.09	15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.18	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 174 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 8=0-3-8
Max Horz 2=-91(LC 13)
Max Uplift 2=-333(LC 12), 10=-412(LC 8), 8=-121(LC 9)
Max Grav 2=1176(LC 1), 10=1684(LC 1), 8=153(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2141/553, 3-4=-1629/442, 4-5=-1406/435, 5-6=-1406/435, 6-7=-809/251, 7-8=-148/674
BOT CHORD 2-16=-512/1920, 15-16=-512/1920, 13-15=-324/1457, 11-13=-99/667, 10-11=-572/171, 8-10=-572/171
WEBS 3-15=-537/215, 4-15=-68/403, 5-13=-415/209, 6-13=-264/961, 6-11=-559/176, 7-11=-280/1398, 7-10=-1533/373

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 -2-0-0 to 1-4-13, Zone1 1-4-13 to 11-0-0, Zone2 11-0-0 to 15-9-11, Zone1 15-9-11 to 23-0-0, Zone2 23-0-0 to 27-10-4, Zone1 27-10-4 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=333, 10=412, 8=121.

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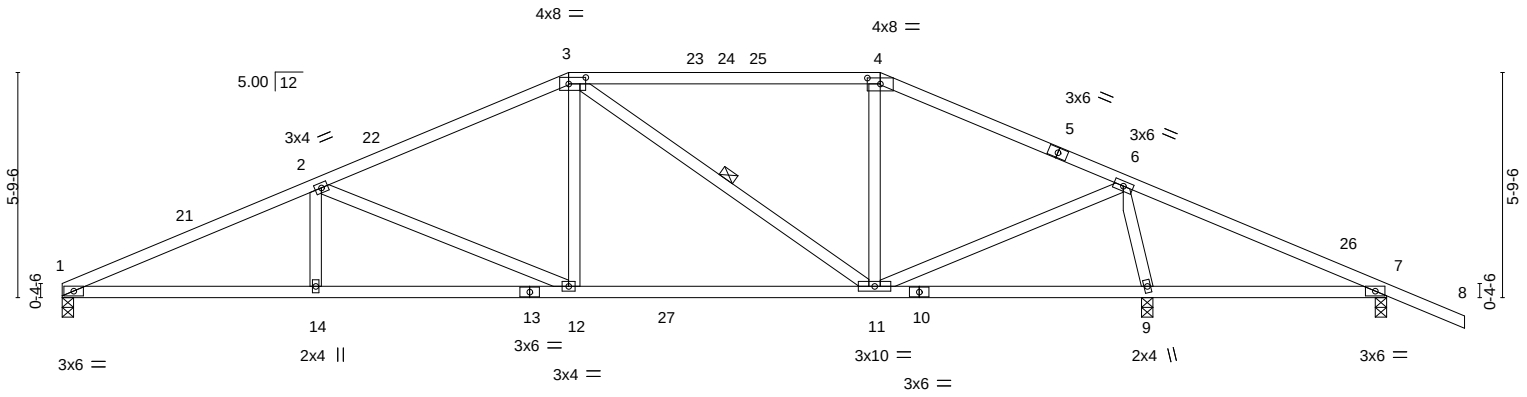
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T14	Hip	1	1	T38163578
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:49 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-Yy_FmYs9XieLP3RY0krsLLX1GGz_xWVqmsg2ZTypztW

6-6-1	13-0-0	21-0-0	27-2-14	34-0-0	36-0-0
6-6-1	6-5-15	8-0-0	6-2-14	6-9-2	2-0-0

Scale = 1:59.1



6-6-1	13-0-0	21-0-0	27-10-4	34-0-0
6-6-1	6-5-15	8-0-0	6-10-4	6-1-12

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

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	0.75	Vert(LL)	-0.14	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.26	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 165 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	3-4: 2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-11

REACTIONS. (size) 1=0-3-8, 9=0-3-8, 7=0-3-8
Max Horz 1=-118(LC 13)
Max Uplift 1=-281(LC 12), 9=-362(LC 8), 7=-139(LC 9)
Max Grav 1=1142(LC 2), 9=1779(LC 2), 7=200(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2351/575, 2-3=-1629/397, 3-4=-980/289, 4-6=-1125/286, 6-7=-136/648
BOT CHORD 1-14=-547/2138, 12-14=-547/2138, 11-12=-275/1458, 7-9=-532/162
WEBS 2-14=0/262, 2-12=-754/297, 3-12=-69/581, 3-11=-627/206, 6-11=-216/1282, 6-9=-1550/372

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 13-0-0, Zone2 13-0-0 to 17-9-11, Zone1 17-9-11 to 21-0-0, Zone2 21-0-0 to 25-9-11, Zone1 25-9-11 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=281, 9=362, 7=139.

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Date:

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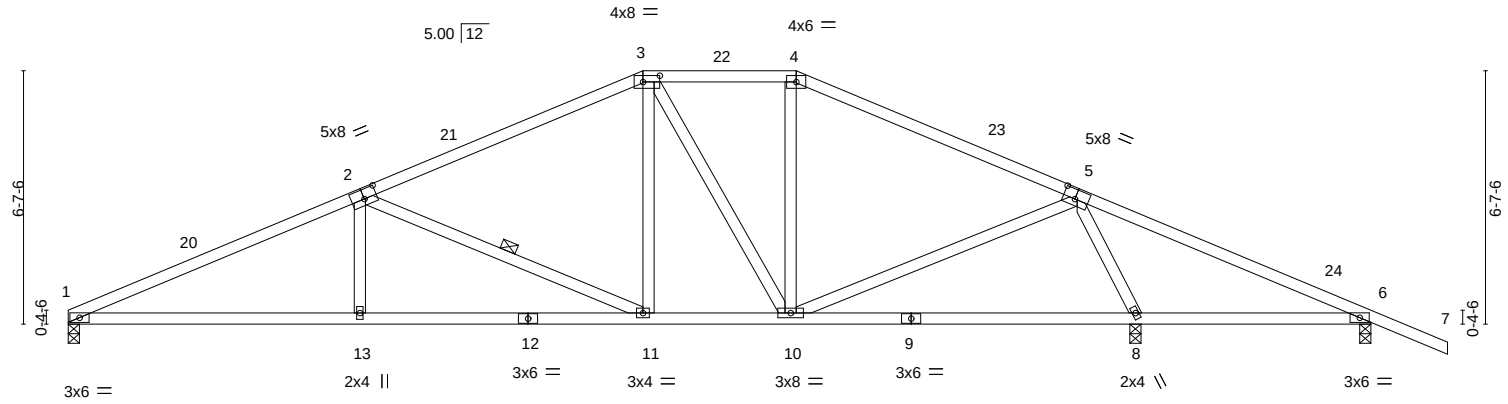
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T15	Hip	1	1	T38163579
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:50 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-09Yd_ttoI0mC1D0kaSM5tZ4BLgKng1_z?WPc5vypztV

7-7-5	15-0-0	19-0-0	26-4-0	34-0-0	36-0-0
7-7-5	7-4-11	4-0-0	7-4-0	7-8-0	2-0-0

Scale = 1:60.1



7-7-5	15-0-0	19-0-0	27-10-4	34-0-0
7-7-5	7-4-11	4-0-0	8-10-4	6-1-12

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

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	0.80	Vert(LL)	-0.15	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.30	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 170 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 2-11

REACTIONS. (size) 1=0-3-8, 8=0-3-8, 6=0-3-8
Max Horz 1=-132(LC 13)
Max Uplift 1=-279(LC 12), 8=-329(LC 13), 6=-149(LC 9)
Max Grav 1=1061(LC 1), 8=1653(LC 1), 6=201(LC 26)

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

TOP CHORD	1-2=-2147/549, 2-3=-1298/343, 3-4=-942/297, 4-5=-1117/279, 5-6=-141/664
BOT CHORD	1-13=-527/1920, 11-13=-528/1917, 10-11=-209/1118, 6-8=-525/168
WEBS	2-13=0/336, 2-11=-883/351, 3-11=-109/445, 3-10=-414/159, 5-10=-145/826, 5-8=-1606/399

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 15-0-0, Zone3 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-9-11, Zone1 23-9-11 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=279, 8=329, 6=149.

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Date:

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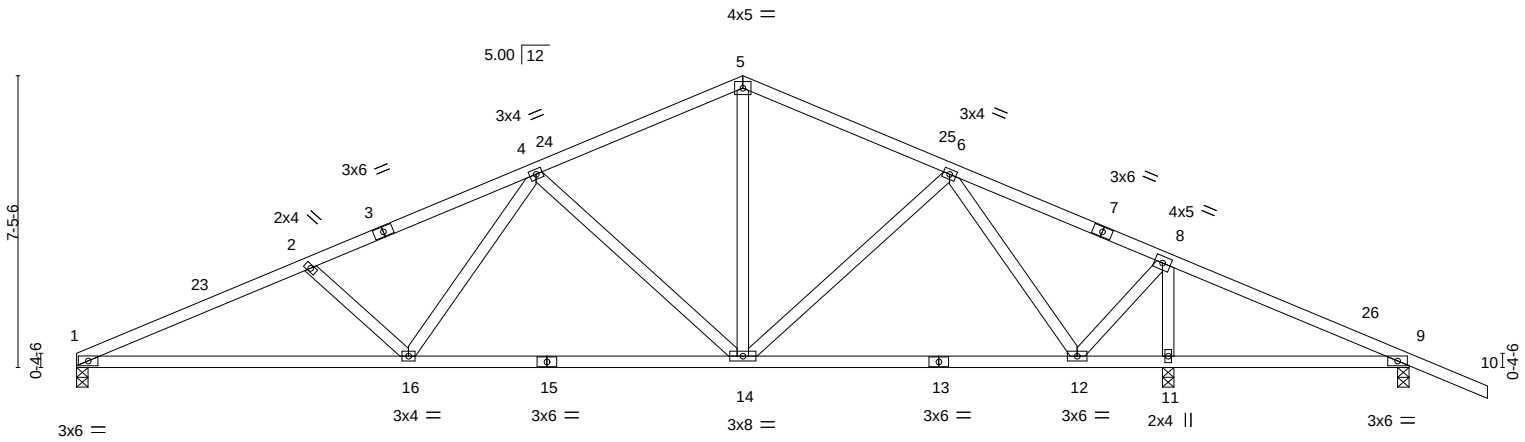
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T16	Common	3	1	T38163580
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:50 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-09Yd_ttoI0mC1D0kaSM5tZ4FTgJ?g_bz?WPc5vypztV

5-11-10	11-8-11	17-0-0	22-3-5	27-10-4	34-0-0	36-0-0
5-11-10	5-9-1	5-3-5	5-3-5	5-6-15	6-1-12	2-0-0

Scale = 1:58.8



8-5-10	17-0-0	25-6-6	27-10-4	34-0-0
8-5-10	8-6-6	8-6-6	2-3-14	6-1-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.11	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.25	16-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 170 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz 1=-146(LC 13)
Max Uplift 1=-270(LC 12), 11=-354(LC 13), 9=-133(LC 9)
Max Grav 1=1047(LC 1), 11=1712(LC 1), 9=185(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2150/561, 2-4=-1890/493, 4-5=-1045/283, 5-6=-1043/297, 6-8=-307/142, 8-9=-173/722
BOT CHORD 1-16=-567/1952, 14-16=-341/1394, 12-14=-81/717, 11-12=-597/195, 9-11=-597/195
WEBS 2-16=-374/217, 4-16=-125/541, 4-14=-682/301, 5-14=-114/479, 6-14=-55/339, 6-12=-955/245, 8-12=-212/1190, 8-11=-1592/347

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 17-0-0, Zone2 17-0-0 to 21-9-11, Zone1 21-9-11 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=270, 11=354, 9=133.

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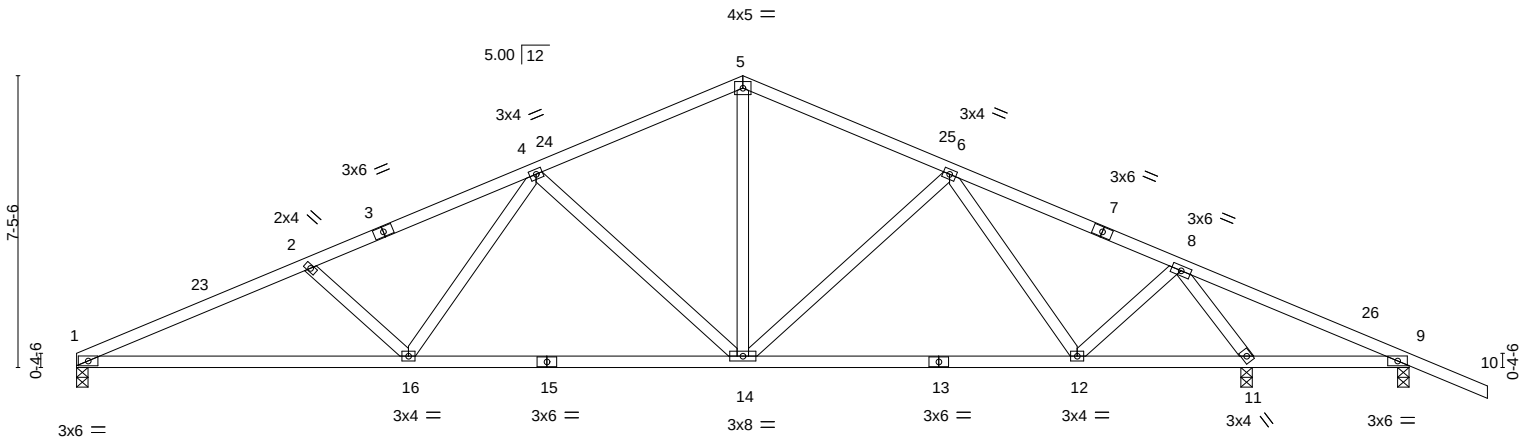
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T17	Common	2	1	T38163581
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:51 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-UL60BDuQ3Ju3eNbx89uKQmdQa4fnPRs7DA99dMypztU

5-11-10	11-8-11	17-0-0	22-3-5	28-0-6	34-0-0	36-0-0
5-11-10	5-9-1	5-3-5	5-3-5	5-9-1	5-11-10	2-0-0

Scale = 1:58.8



8-5-10	17-0-0	25-6-6	29-10-4	34-0-0
8-5-10	8-6-6	8-6-6	4-3-14	4-1-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.12	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.28	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 171 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 3-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-10 oc bracing.

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz 1=-146(LC 13)
Max Uplift 1=-289(LC 12), 11=-374(LC 13), 9=-204(LC 25)
Max Grav 1=1143(LC 1), 11=1802(LC 1), 9=56(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2391/610, 2-4=-2133/541, 4-5=-1291/332, 5-6=-1291/347, 6-8=-1002/286, 8-9=-229/1091
BOT CHORD 1-16=-611/2174, 14-16=-386/1620, 12-14=-168/1151, 11-12=-55/314, 9-11=-944/245
WEBS 2-16=-372/217, 4-16=-124/538, 4-14=-681/301, 5-14=-153/658, 6-12=-526/159, 8-12=-124/815, 8-11=-2067/455

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 17-0-0, Zone2 17-0-0 to 21-9-11, Zone1 21-9-11 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=289, 11=374, 9=204.

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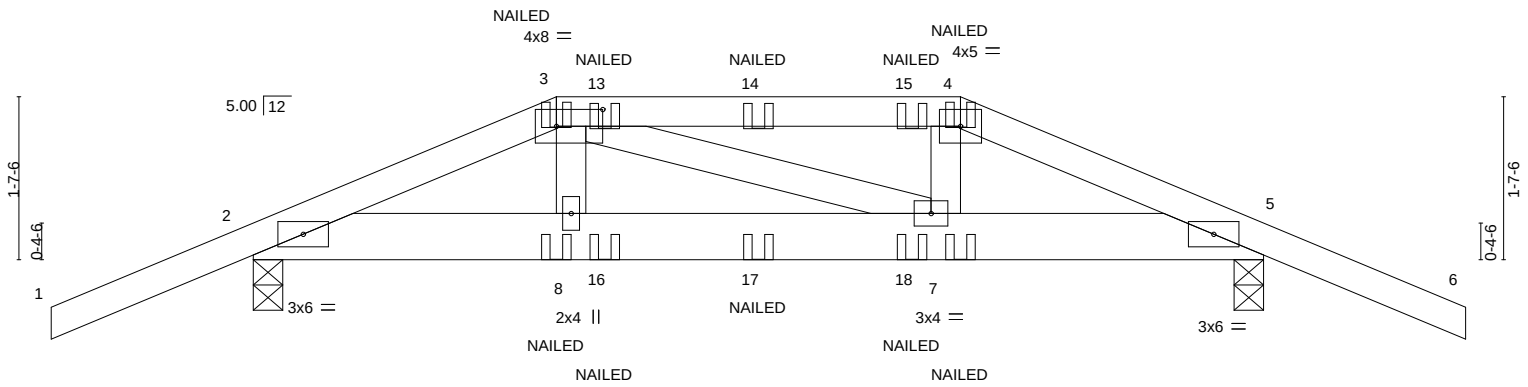
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T18	Hip Girder	1	1	T38163582
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:51 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-UL60BDuQ3Ju3eNbx89uKQmdUu4oWPbf7DA99dMypztU

-2-0-0 2-0-0 | 3-0-0 3-0-0 | 7-0-0 4-0-0 | 10-0-0 3-0-0 | 12-0-0 2-0-0

Scale = 1:22.8



3-0-0 3-0-0 | 7-0-0 4-0-0 | 10-0-0 3-0-0

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

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	0.30	Vert(LL)	0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 54 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) 2=0-3-8, 5=0-3-8
Max Horz 2=-35(LC 9)
Max Uplift 2=-289(LC 4), 5=-289(LC 5)
Max Grav 2=525(LC 1), 5=525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-722/426, 3-4=-655/404, 4-5=-714/419
BOT CHORD 2-8=-338/698, 7-8=-344/710, 5-7=-348/684

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; 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) 2=289, 5=289.
8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 13=-2(B) 14=-2(B) 15=-2(B) 16=-1(B) 17=-1(B) 18=-1(B)

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

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

August 11,2025

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

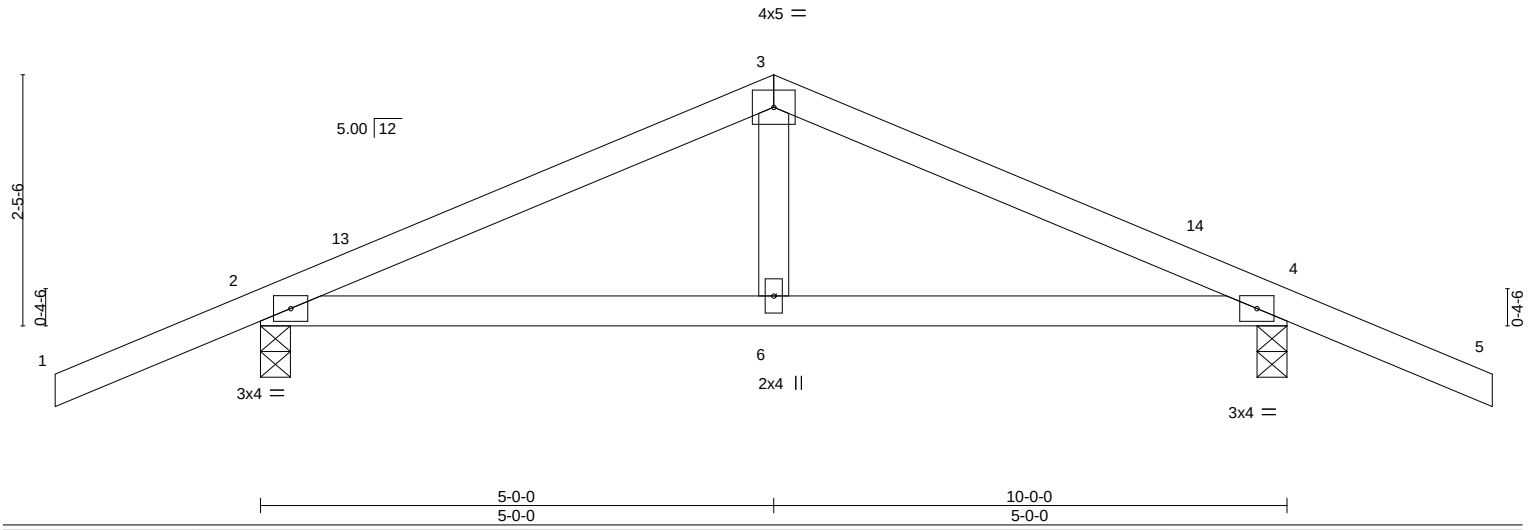
Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
4800793	T19	Common	1	1	T38163583

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:52 2025 Page 1
ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-yXgOPZv2qd0wGXA7itPZz_9fhU7e81YGSqui9oypztT

-2-0-0 5-0-0 10-0-0 12-0-0
2-0-0 5-0-0 5-0-0 2-0-0

Scale = 1:22.4



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	0.29	Vert(LL)	0.03	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.03	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 41 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) 2=0-3-8, 4=0-3-8
Max Horz 2=49(LC 16)
Max Uplift 2=-225(LC 8), 4=-225(LC 9)
Max Grav 2=520(LC 1), 4=520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-557/377, 3-4=-557/377
BOT CHORD 2-6=-237/467, 4-6=-237/467

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 5-0-0, Zone2 5-0-0 to 9-4-15, Zone1 9-4-15 to 12-0-0 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=225, 4=225.

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

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Date:

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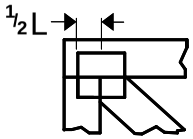
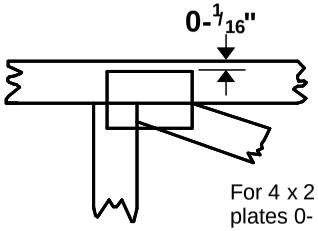
Symbols

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.

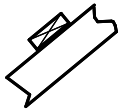
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

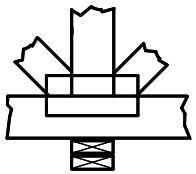
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

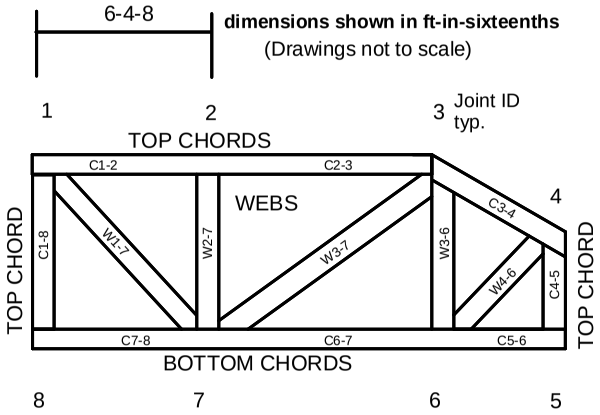


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.