



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

RE: 260108-01KM - Mitch Brown

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

Site Information:

Customer Info: Solid Rock Builders Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: 126 SW Aurora Way, .
City: Lake City State: FL.

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 34.0 psf Floor Load: N/A psf

This package includes 30 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T39754975	M01	1/9/26	23	T39754997	J07	1/9/26
2	T39754976	H12	1/9/26	24	T39754998	T05	1/9/26
3	T39754977	H11	1/9/26	25	T39754999	T04	1/9/26
4	T39754978	H10	1/9/26	26	T39755000	T03	1/9/26
5	T39754979	H09	1/9/26	27	T39755001	GE02	1/9/26
6	T39754980	H08	1/9/26	28	T39755002	T02	1/9/26
7	T39754981	H07	1/9/26	29	T39755003	T01	1/9/26
8	T39754982	T07	1/9/26	30	T39755004	GE01	1/9/26
9	T39754983	J06	1/9/26				
10	T39754984	J05	1/9/26				
11	T39754985	J04	1/9/26				
12	T39754986	J02	1/9/26				
13	T39754987	J01	1/9/26				
14	T39754988	CJ01	1/9/26				
15	T39754989	H05	1/9/26				
16	T39754990	H04	1/9/26				
17	T39754991	H03	1/9/26				
18	T39754992	H02	1/9/26				
19	T39754993	H06	1/9/26				
20	T39754994	J03	1/9/26				
21	T39754995	H01	1/9/26				
22	T39754996	J08	1/9/26				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Coastal Truss & Vinyl Siding.

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

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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

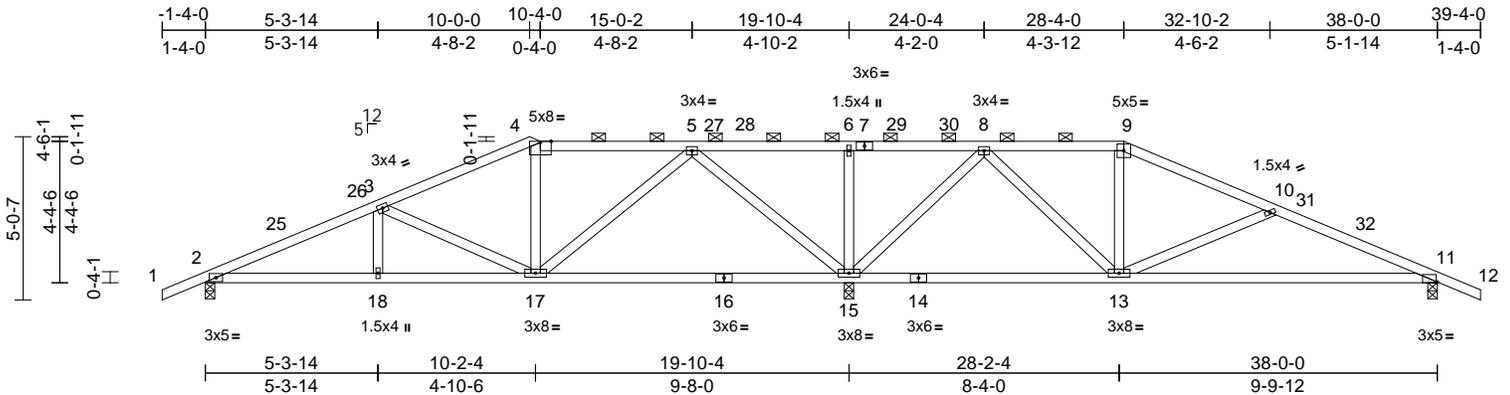
January 9, 2026

Job 260108-01KM	Truss H12	Truss Type Roof Special	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754976
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:21
ID:p5wFE34ZCiw_tljzQ0DQTdzxQcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.7

Plate Offsets (X, Y): [11:0-0-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.17	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.30	13-24	>730	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.02	11	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 189 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 11=0-3-8, 15=0-3-8
Max Horiz 2=111 (LC 11)
Max Uplift 2=-218 (LC 12), 11=-197 (LC 12), 15=-474 (LC 12)
Max Grav 2=605 (LC 23), 11=537 (LC 24), 15=1646 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

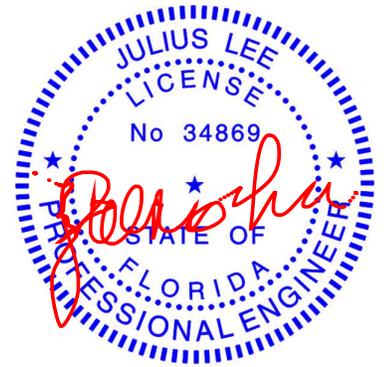
TOP CHORD 1-2=0/28, 2-3=-980/406, 3-4=-567/237, 4-5=-482/263, 5-6=-240/786, 6-8=-240/786, 8-9=-337/192, 9-10=-425/177, 10-11=-780/359, 11-12=0/28
BOT CHORD 2-18=-289/877, 17-18=-289/877, 15-17=-78/115, 13-15=-145/167, 11-13=-265/703
WEBS 3-18=0/132, 6-15=-245/132, 9-13=-105/102, 10-13=-398/301, 4-17=-63/79, 3-17=-446/282, 8-15=-896/420, 8-13=-213/561, 5-17=-198/562, 5-15=-1003/477

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=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 10-4-0, Zone2 10-4-0 to 15-8-8, Zone1 15-8-8 to 28-4-0, Zone2 28-4-0 to 33-8-8, Zone1 33-8-8 to 39-4-0 zone; cantilever left and right exposed ; end vertical 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 2, 474 lb uplift at joint 15 and 197 lb uplift at joint 11.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9,2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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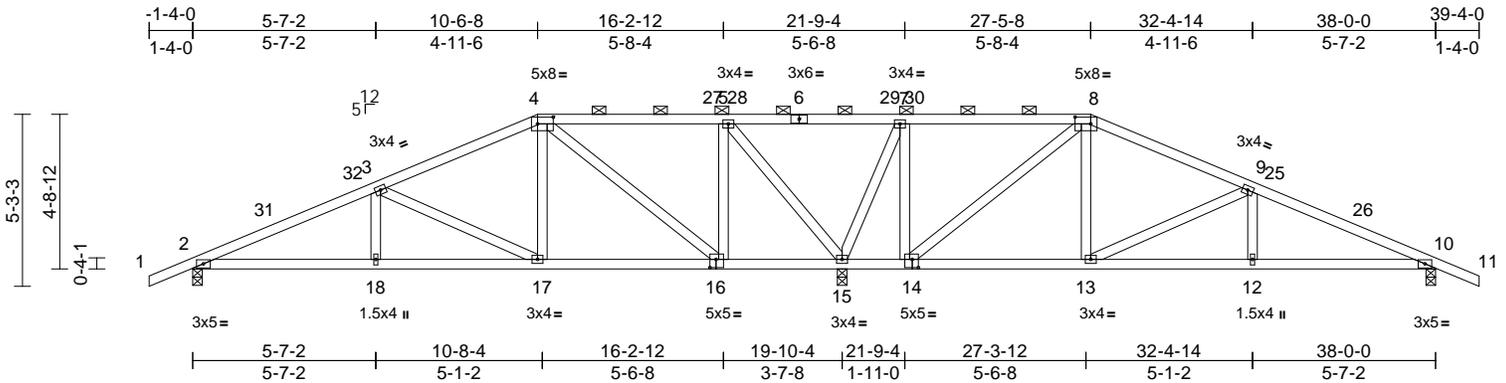
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss H11	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754977
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Page: 1



Scale = 1:70.1											
Plate Offsets (X, Y): [4:0-5-12,0-2-8], [8:0-5-12,0-2-8], [14:0-2-4,0-3-0], [16:0-2-4,0-3-0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.04 18-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.07 18-21	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	-0.02 2	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 201 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-8.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.

REACTIONS (size) 2=0-3-8, 10=0-3-8, 15=0-3-8
Max Horiz 10=118 (LC 10)
Max Uplift 2=216 (LC 12), 10=195 (LC 12), 15=478 (LC 12)
Max Grav 2=605 (LC 23), 10=535 (LC 24), 15=1655 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 8-9=-329/135, 9-10=-801/272, 10-11=0/28, 4-5=-5/156, 5-7=-186/786, 7-8=-47/399, 1-2=0/28, 2-3=-978/335, 3-4=-510/200
BOT CHORD 2-18=-239/863, 17-18=-239/863, 15-17=-157/427, 13-15=-426/267, 12-13=-171/700, 10-12=-171/700
WEBS 9-12=0/189, 9-13=-498/247, 8-13=-57/328, 4-17=-58/325, 3-17=-495/245, 3-18=0/188, 5-16=-103/454, 4-16=-623/233, 7-14=-131/513, 8-14=-740/270, 5-15=-997/370, 7-15=-908/346

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 10-6-8, Zone2 10-6-8 to 15-11-0, Zone1 15-11-0 to 27-5-8, Zone2 27-5-8 to 32-10-0, Zone1 32-10-0 to 39-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 195 lb uplift at joint 10 and 478 lb uplift at joint 15.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

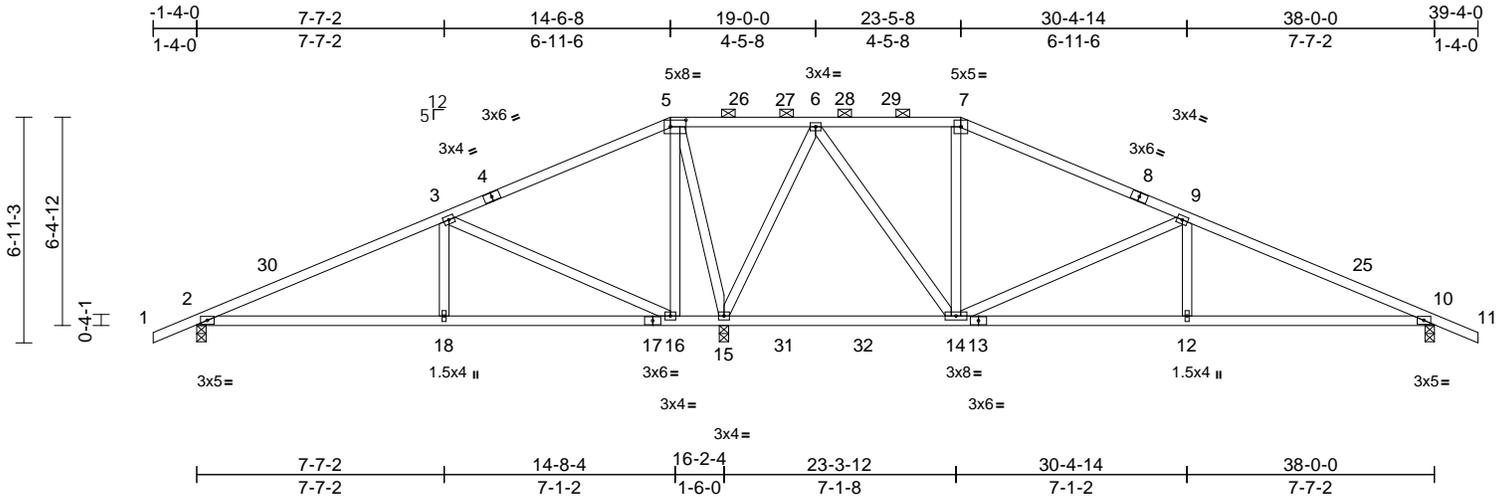
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260108-01KM	Truss H09	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754979
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.12	12-24	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.21	12-24	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	-0.02	15	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								Weight: 198 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS
(size) 2=0-3-8, 10=0-3-8, 15=0-3-8
Max Horiz 10=158 (LC 10)
Max Uplift 2=-161 (LC 12), 10=-234 (LC 12), 15=494 (LC 12)
Max Grav 2=444 (LC 17), 10=718 (LC 18), 15=1931 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-9=-352/165, 9-10=-1066/355, 10-11=0/28, 5-6=-101/773, 6-7=-244/198, 1-2=0/28, 2-3=-438/162, 3-5=-99/664
BOT CHORD 2-18=-127/363, 16-18=-127/363, 15-16=-522/302, 14-15=-363/217, 12-14=-232/1058, 10-12=-232/1058
WEBS 9-12=0/266, 9-14=-875/337, 7-14=-217/124, 5-16=-86/405, 3-16=-902/338, 3-18=0/282, 5-15=-884/314, 6-15=-1047/383, 6-14=-240/910

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 14-6-8, Zone2 14-6-8 to 19-11-0, Zone1 19-11-0 to 23-5-8, Zone2 23-5-8 to 28-10-0, Zone1 28-10-0 to 39-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2, 234 lb uplift at joint 10 and 494 lb uplift at joint 15.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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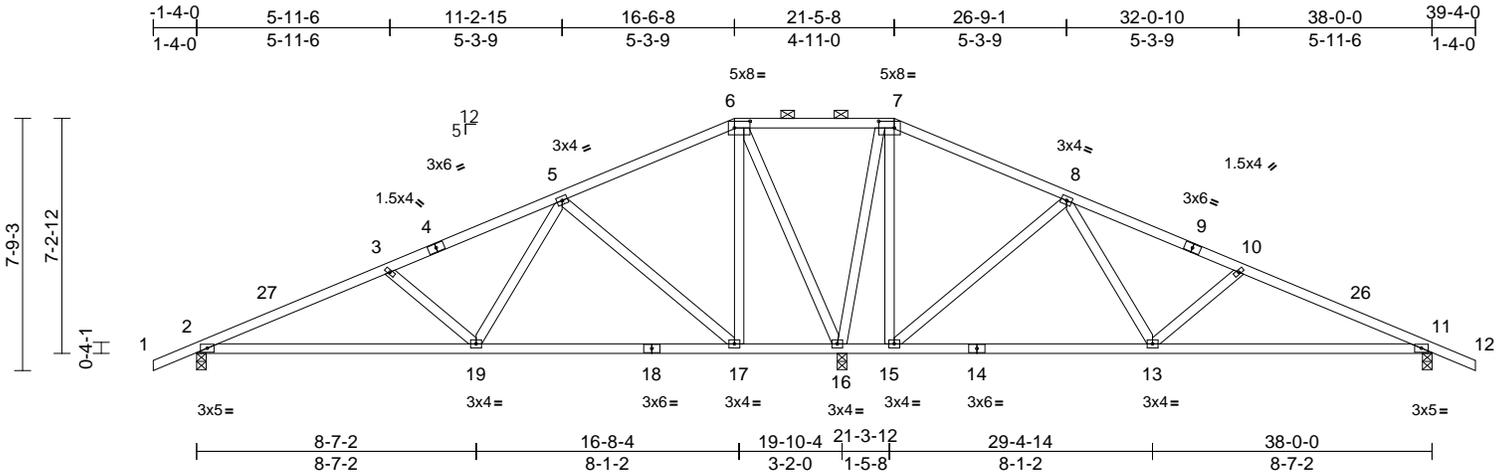
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss H08	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754980
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Page: 1



Scale = 1:70.5

Plate Offsets (X, Y): [6:0-5-12,0-2-8], [7:0-5-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.10	19-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.18	19-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 209 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 2-19.

REACTIONS

(size) 2=0-3-8, 11=0-3-8, 16=0-3-8
Max Horiz 11=-178 (LC 10)
Max Uplift 2=-196 (LC 12), 11=-174 (LC 12), 16=-519 (LC 12)
Max Grav 2=576 (LC 23), 11=509 (LC 24), 16=1790 (LC 1)

FORCES

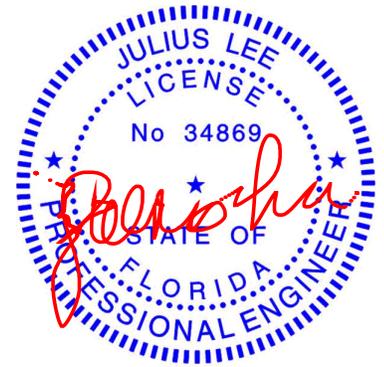
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-84/579, 8-10=-433/119, 10-11=-675/189, 11-12=0/28, 6-7=-94/691, 1-2=0/28, 2-3=-845/255, 3-5=-604/186, 5-6=-9/377
BOT CHORD 2-19=-162/752, 17-19=-88/305, 16-17=-291/267, 15-16=-478/327, 13-15=-210/160, 11-13=-104/595
WEBS 10-13=-334/204, 8-13=-80/445, 8-15=-588/296, 7-15=-102/477, 6-17=-124/461, 5-17=-588/295, 5-19=-79/445, 3-19=-332/204, 6-16=-933/341, 7-16=-932/321

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 16-6-8, Zone3 16-6-8 to 21-5-8, Zone2 21-5-8 to 26-9-1, Zone1 26-9-1 to 39-4-0 zone; cantilever left and right exposed; end vertical 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2, 174 lb uplift at joint 11 and 519 lb uplift at joint 16.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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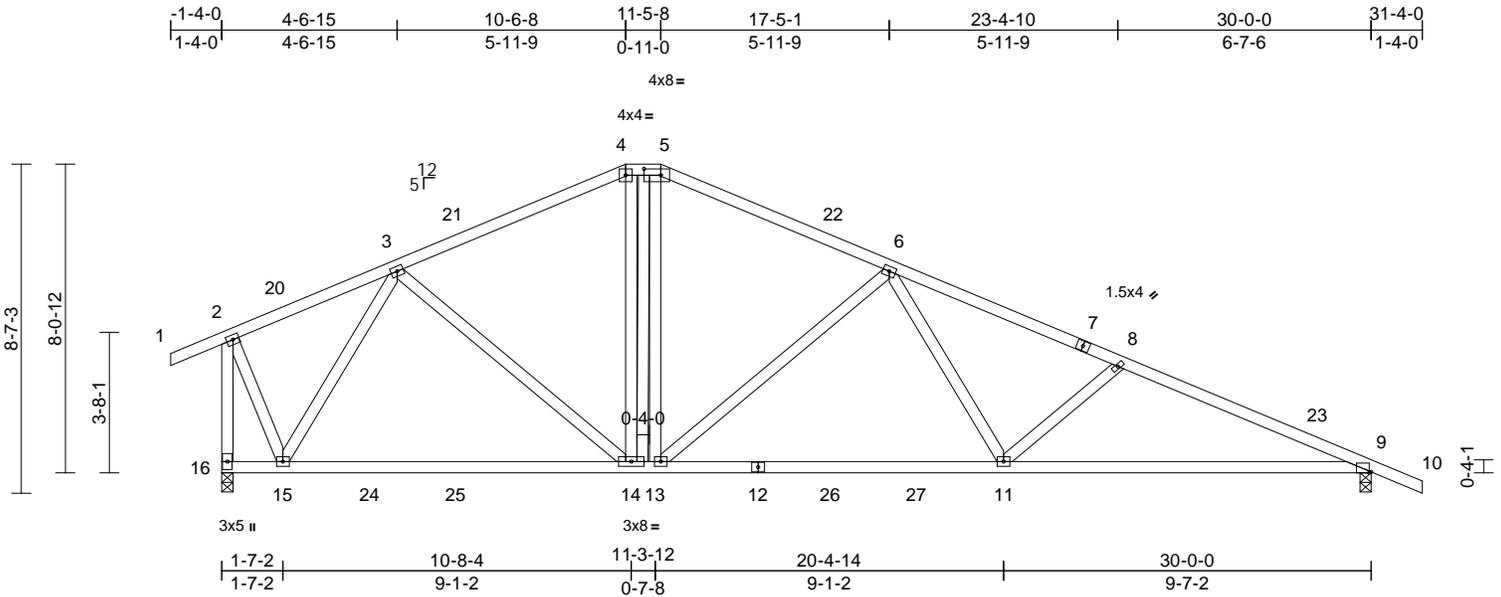
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss H07	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754981
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:21
ID:sjoVpO2Jg4fGd?ZAibByOCzxCqM-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.8
Plate Offsets (X, Y): [5:0-5-4,0-2-0], [9:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.23	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.36	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.06	9	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 187 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-14 max.): 4-5.
BOT CHORD Structural wood sheathing directly applied or 2-2-0 oc bracing.

REACTIONS
(size) 9=0-3-8, 16=0-3-8
Max Horiz 16=267 (LC 10)
Max Uplift 9=-365 (LC 12), 16=-368 (LC 12)
Max Grav 9=1229 (LC 18), 16=1206 (LC 19)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-524/236, 3-4=-1165/464, 4-5=-1031/474, 5-6=-1183/478, 6-8=-2134/658, 8-9=-2384/735, 9-10=0/28, 2-16=-1312/405
BOT CHORD 15-16=-155/210, 14-15=-163/925, 13-14=-139/1086, 11-13=-364/1574, 9-11=-571/2168
WEBS 3-15=-814/353, 3-14=-23/350, 4-14=-70/337, 5-14=-294/102, 5-13=-145/533, 6-13=-783/319, 6-11=-85/646, 8-11=-368/223, 2-15=-223/1089

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 18-6-8, Zone3 18-6-8 to 19-5-8, Zone2 19-5-8 to 23-8-7, Zone1 23-8-7 to 39-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 16 and 365 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES
1) Unbalanced roof live loads have been considered for this design.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

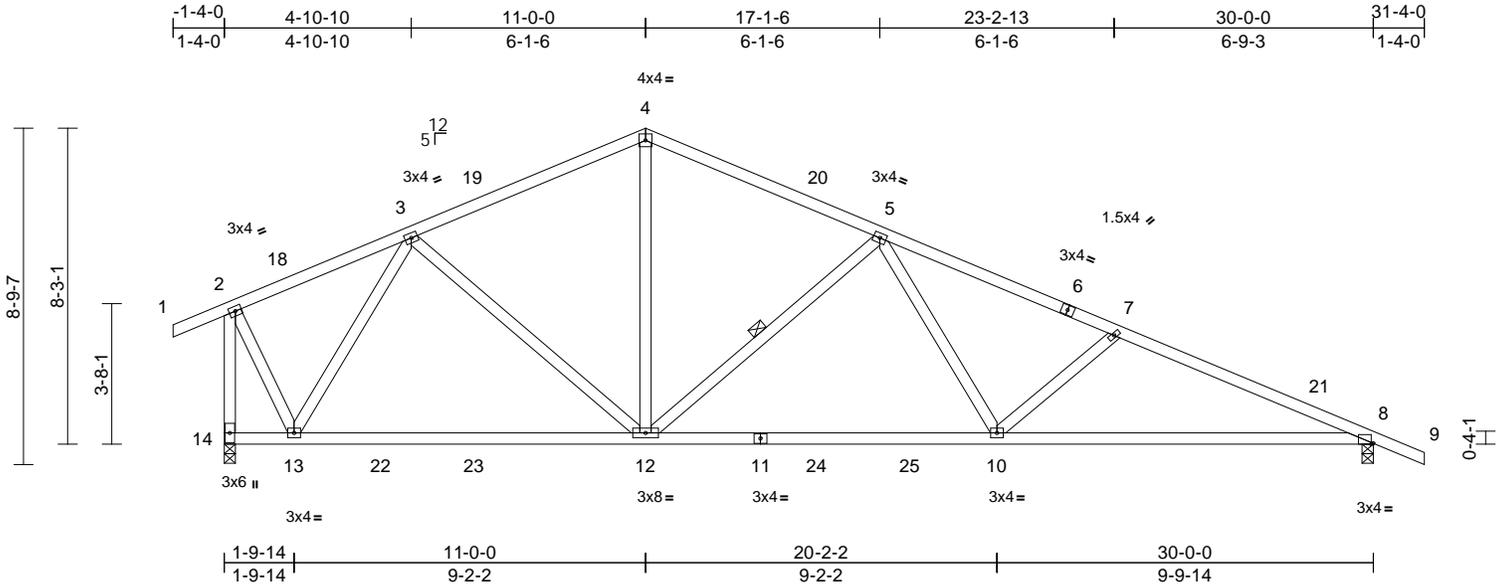
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260108-01KM	Truss T07	Truss Type Common	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T39754982
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:23
ID:U20ff5qkJAi6csyxRFuY2zxQcl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDcoi7J4zJC?

Page: 1



Scale = 1:59.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.22	10-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.39	10-17	>908	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 166 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins, except end verticals.
BOT CHORD Structural wood sheathing directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS (size) 8=0-3-8, 14=0-3-8
Max Horiz 14=271 (LC 10)
Max Uplift 8=365 (LC 12), 14=368 (LC 12)
Max Grav 8=1230 (LC 18), 14=1210 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-574/258, 3-4=-1166/483,
4-5=-1166/502, 5-7=-2112/684,
7-8=-2370/766, 8-9=0/28, 2-14=-1302/480
BOT CHORD 13-14=-159/214, 12-13=-179/953,
10-12=-377/1553, 8-10=-589/2155
WEBS 4-12=-160/604, 5-12=-785/338,
5-10=-89/651, 7-10=-381/232, 3-12=-21/320,
3-13=-774/346, 2-13=-236/1075

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 8.
- LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0,
Zone1 9-8-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1
23-2-15 to 39-4-0 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9,2026

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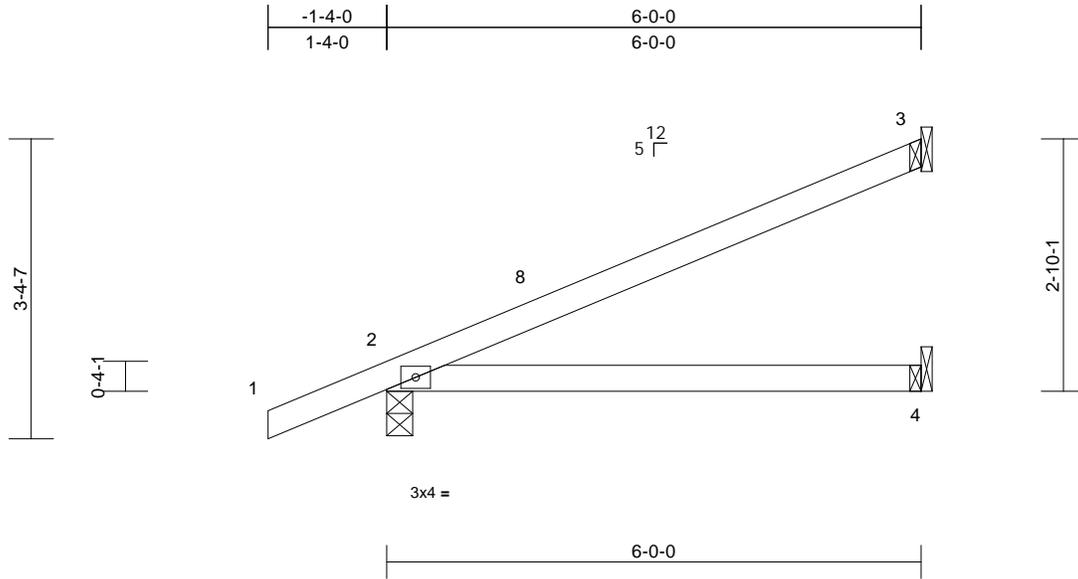
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Chesterfield, MO 63017
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Job 260108-01KM	Truss J06	Truss Type Jack-Open	Qty 2	Ply 1	Mitch Brown Job Reference (optional)	T39754983
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.09	4-7	>836	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.10	4-7	>714	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 21 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 Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=122 (LC 12)
Max Uplift 2=-112 (LC 12), 3=-78 (LC 12)
Max Grav 2=282 (LC 1), 3=136 (LC 1), 4=91 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-122/50
BOT CHORD 2-4=-63/101

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 3 and 112 lb uplift at joint 2.
LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 5-11-4 zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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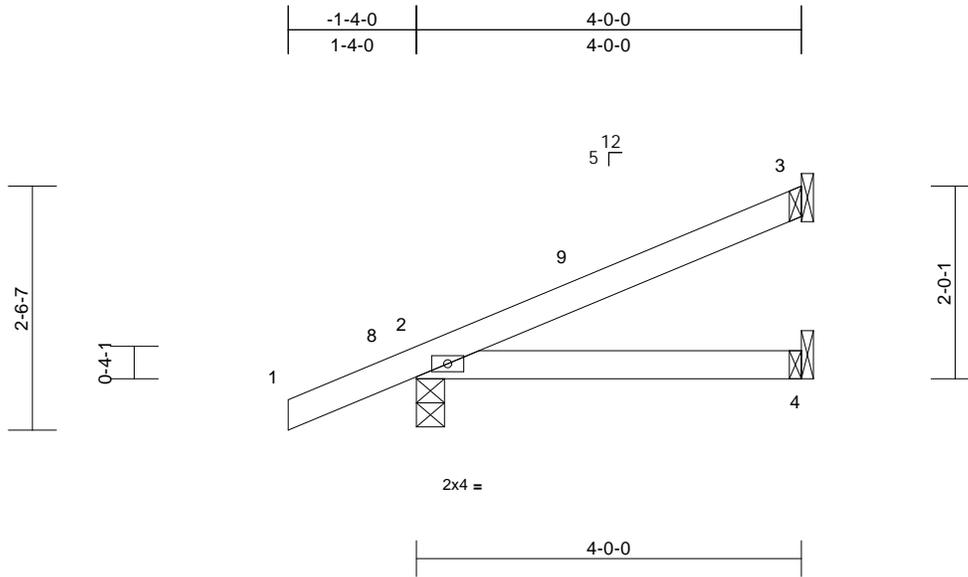
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39754984
260108-01KM	J05	Jack-Open	2	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
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Page: 1



Scale = 1:23.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 15 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 4-0-0 oc purlins.
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
 Max Horiz 2=92 (LC 12)
 Max Uplift 2=-103 (LC 12), 3=-47 (LC 12)
 Max Grav 2=218 (LC 1), 3=85 (LC 1), 4=59 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-112/33
 BOT CHORD 2-4=-31/64

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 3-11-4 zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 103 lb uplift at joint 2.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

January 9, 2026

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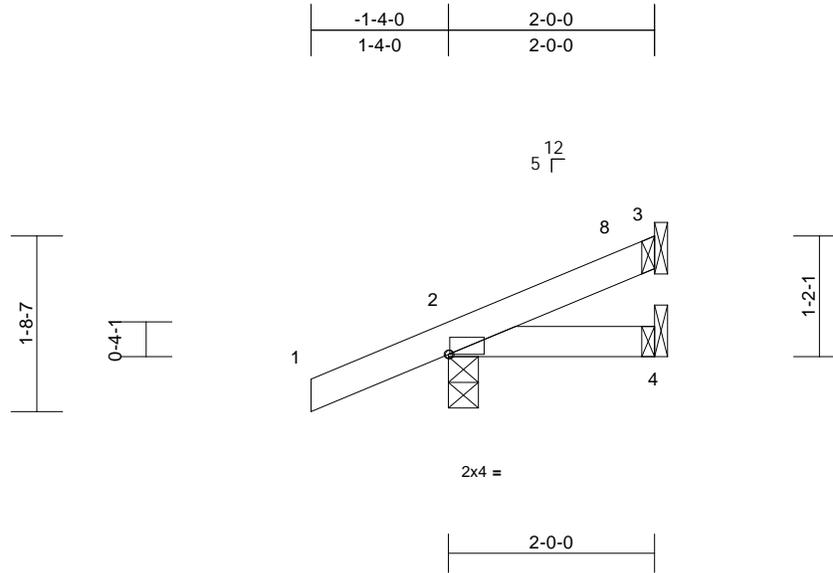
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39754985
260108-01KM	J04	Jack-Open	2	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
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Page: 1



Scale = 1:22.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 9 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 2-0-0 oc purlins.
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
 Max Horiz 2=62 (LC 12)
 Max Uplift 2=-102 (LC 12), 3=-13 (LC 12)
 Max Grav 2=164 (LC 1), 3=33 (LC 17), 4=26 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/28, 2-3=-102/26
 BOT CHORD 2-4=-27/83

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 13 lb uplift at joint 3.

LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 1-11-14 zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

January 9, 2026

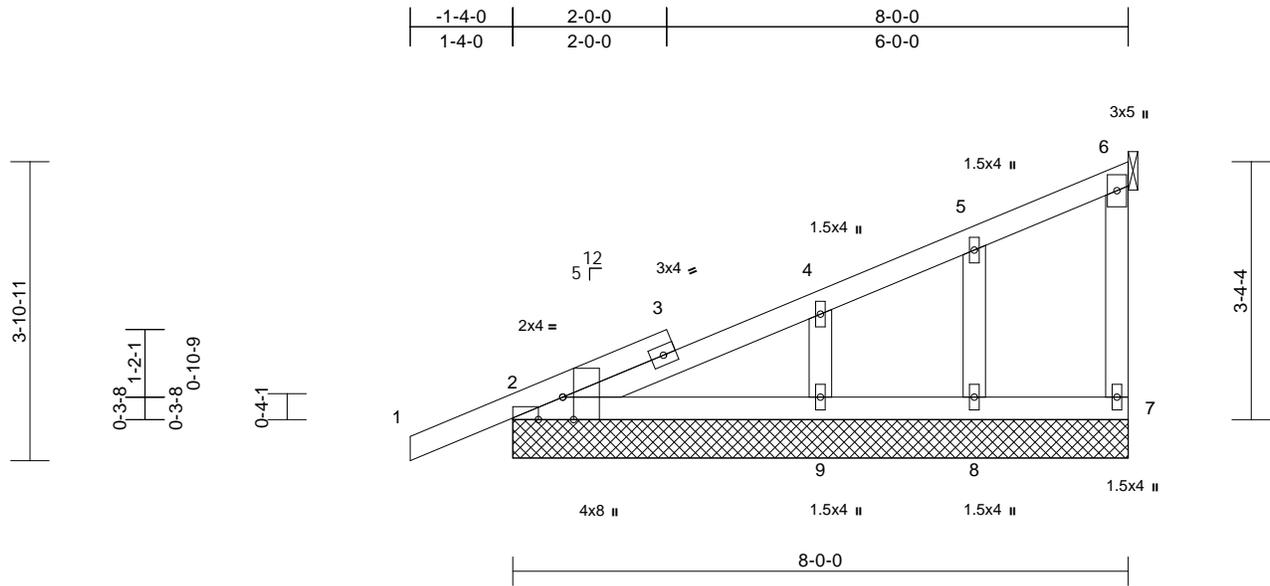
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260108-01KM	Truss J01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754987
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Fri Jan 09 08:35:14
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Page: 1



Scale = 1:29.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.01	9-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	9-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 38 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

All bearings 8-0-0. except 6= Mechanical
(lb) - Max Horiz 2=149 (LC 11), 10=149 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s)
2, 6, 8, 9, 10
Max Grav All reactions 250 (lb) or less at joint
(s) 2, 6, 7, 8, 9, 10

FORCES

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

TOP CHORD 2-3=-304/147, 3-4=-300/161
WEBS 4-9=-171/300

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=2ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C zone; cantilever left and
right exposed; end vertical left and right exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 oc.
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.

- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 100 lb uplift at joint
(s) 2, 8, 9, 6, 2.
- 9) Gap between inside of top chord bearing and first
diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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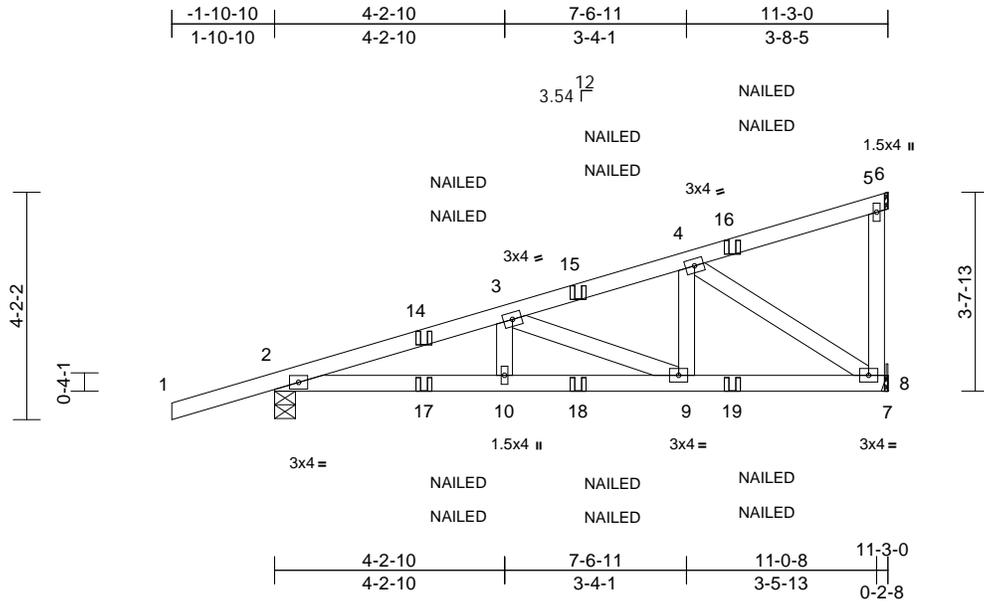
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754988
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:18
ID:DgcOs56SVdlZkmR8V8m75GzxQcH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.03	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.05	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 57 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-9, 8= Mechanical

Max Horiz 2=157 (LC 7)
Max Uplift 2=-221 (LC 8), 8=-150 (LC 8)
Max Grav 2=558 (LC 1), 8=547 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/29, 2-3=-1108/236, 3-4=-731/193, 4-5=-126/75, 5-6=-1/0, 5-8=-104/55
BOT CHORD 2-10=-274/1001, 9-10=-274/1001, 8-9=-206/646, 7-8=0/0
WEBS 3-10=0/123, 4-9=0/320, 3-9=-381/86, 4-8=-735/215

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2 and 150 lb uplift at joint 8.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 (lb/ft)
Vert: 1-5=-54, 5-6=-14, 7-11=-14
Concentrated Loads (lb)
Vert: 15=-18 (F=-9, B=-9), 16=-119 (F=-59, B=-59), 17=-1 (F=0, B=0), 18=-33 (F=-17, B=-17), 19=-76 (F=-38, B=-38)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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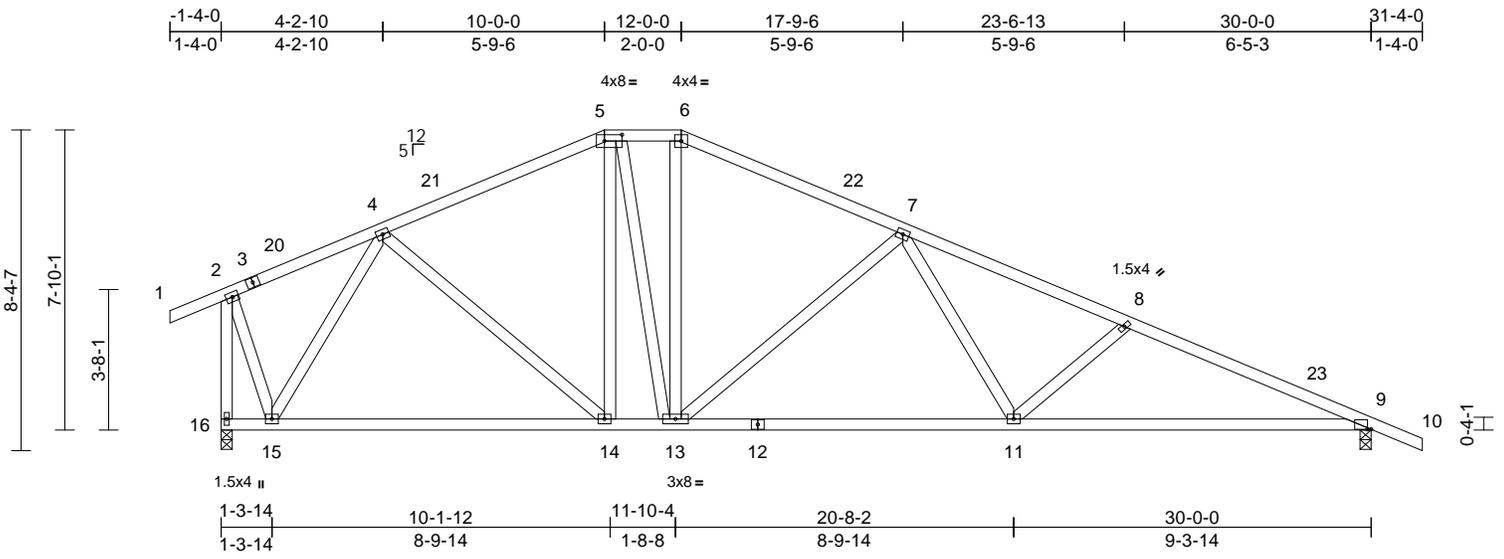
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39754989
260108-01KM	H05	Hip	1	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:20
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Page: 1



Scale = 1:59.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.15	11-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.30	11-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.06	9	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 184 lb	FT = 20%

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-7 max.): 5-6.
 BOT CHORD Structural wood sheathing directly applied or 7-7-15 oc bracing.

REACTIONS (size) 9=0-3-8, 16=0-3-8
 Max Horiz 16=262 (LC 10)
 Max Uplift 9=-365 (LC 12), 16=-368 (LC 12)
 Max Grav 9=1087 (LC 1), 16=1095 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/31, 2-4=-354/220, 4-5=-1043/470, 5-6=-965/492, 6-7=-1109/496, 7-8=-1858/668, 8-9=-2117/743, 9-10=0/28, 2-16=-1140/395
 BOT CHORD 15-16=-149/204, 14-15=-160/717, 13-14=-146/900, 11-13=-381/1447, 9-11=-581/1921
 WEBS 4-15=-833/371, 4-14=-44/308, 5-14=-114/69, 6-13=-84/236, 7-13=-642/310, 7-11=-79/474, 8-11=-351/215, 2-15=-222/897, 5-13=-125/360

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=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 18-0-0, Zone3 18-0-0 to 20-0-0, Zone2 20-0-0 to 24-2-15, Zone1 24-2-15 to 39-4-0 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 16 and 365 lb uplift at joint 9.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

January 9, 2026

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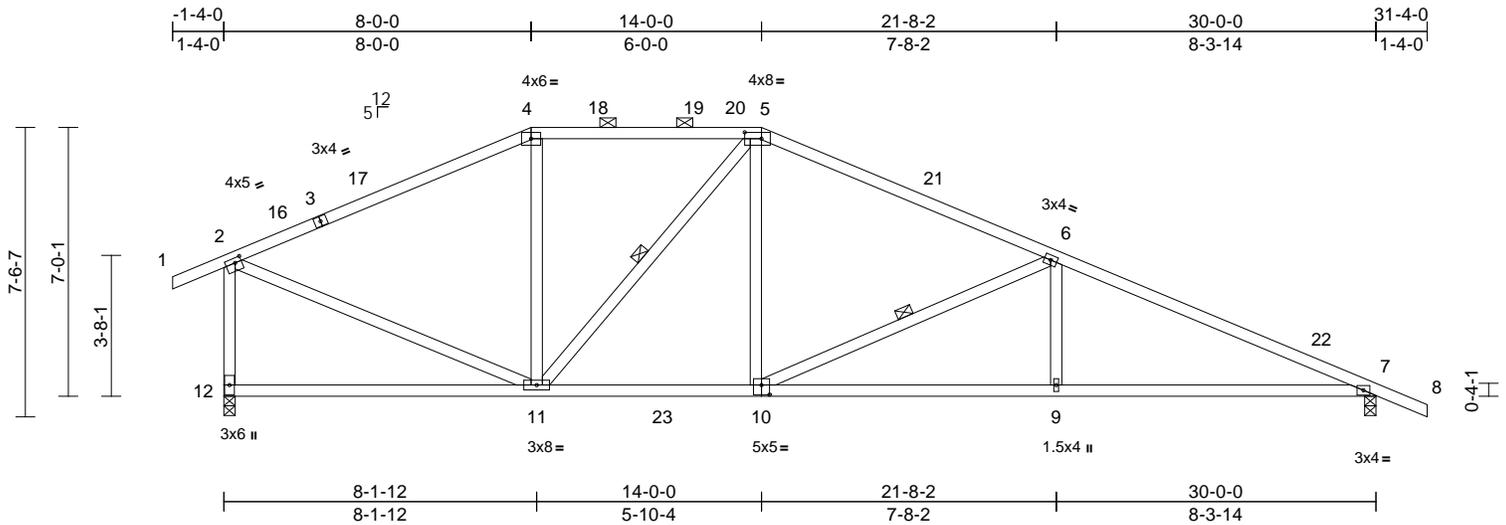
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Job 260108-01KM	Truss H04	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754990
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:20
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Page: 1



Scale = 1:59.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.20	9-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.33	9-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.06	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 163 lb	FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-14 max.): 4-5.
BOT CHORD Structural wood sheathing directly applied or 7-8-2 oc bracing.
WEBS 1 Row at midpt 6-10, 5-11
- REACTIONS** (size) 7=0-3-8, 12=0-3-8
Max Horiz 12=243 (LC 10)
Max Uplift 7=-365 (LC 12), 12=-368 (LC 12)
Max Grav 7=1227 (LC 18), 12=1185 (LC 19)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-1163/456, 4-5=-1012/477, 5-6=-1477/545, 6-7=-2335/718, 7-8=0/28, 2-12=-1077/497
BOT CHORD 11-12=-123/225, 9-11=-555/2108, 7-9=-555/2108
WEBS 4-11=-84/196, 5-10=-89/593, 6-10=-937/345, 6-9=0/299, 2-11=-307/1073, 5-11=-471/157

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 12 and 365 lb uplift at joint 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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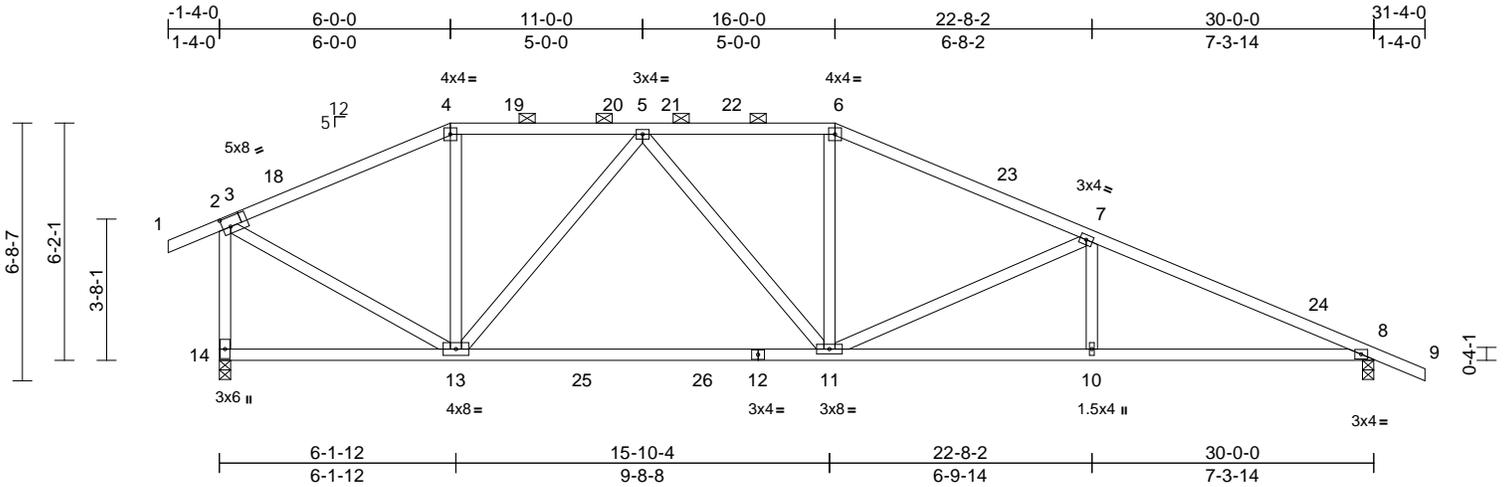
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Job 260108-01KM	Truss H03	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754991
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:20
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Page: 1



Scale = 1:59.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.33	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.51	11-13	>708	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.06	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 164 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-13 max.): 4-6.
BOT CHORD Structural wood sheathing directly applied or 7-7-5 oc bracing.

REACTIONS

(size) 8=0-3-8, 14=0-3-8
Max Horiz 14=225 (LC 10)
Max Uplift 8=-365 (LC 12), 14=-368 (LC 12)
Max Grav 8=1229 (LC 18), 14=1193 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-1098/417, 4-5=-975/428, 5-6=-1513/571, 6-7=-1687/577, 7-8=-2394/734, 8-9=0/28, 2-14=-1142/482
BOT CHORD 13-14=-112/183, 11-13=-303/1349, 10-11=-581/2169, 8-10=-581/2169
WEBS 4-13=0/234, 5-13=-600/254, 5-11=-36/291, 6-11=-41/383, 7-11=-775/313, 7-10=0/229, 2-13=-313/1114

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=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 24-0-0, Zone2 24-0-0 to 28-2-15, Zone1 28-2-15 to 39-4-0 zone; cantilever left and right exposed; end vertical 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 8.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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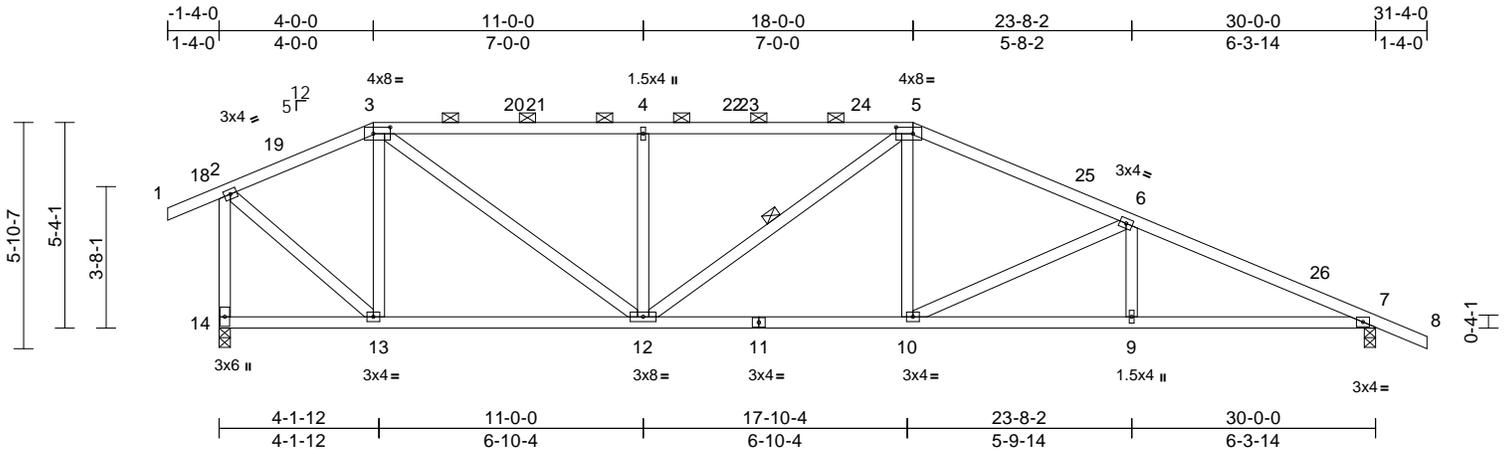
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss H02	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754992
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:20
ID:wKgkOi138TPZOHobA8UJnzxQcO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.5
Plate Offsets (X, Y): [3:0-5-4,0-2-0], [5:0-5-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.11	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.20	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 166 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-4 max.): 3-5.
BOT CHORD Structural wood sheathing directly applied or 7-6-12 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS
(size) 7=0-3-8, 14=0-3-8
Max Horiz 14=207 (LC 10)
Max Uplift 7=365 (LC 12), 14=368 (LC 12)
Max Grav 7=1087 (LC 1), 14=1095 (LC 1)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-803/366, 3-4=-1444/616, 4-5=-1444/616, 5-6=-1639/623, 6-7=-2165/741, 7-8=0/28, 2-14=-1076/476
BOT CHORD 13-14=-105/173, 12-13=-127/690, 10-12=-376/1462, 9-10=-600/1951, 7-9=-600/1951
WEBS 3-13=-517/265, 3-12=-346/947, 4-12=-438/250, 5-12=-72/148, 5-10=-55/375, 6-10=-549/258, 6-9=0/206, 2-13=-325/923

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 26-0-0, Zone2 26-0-0 to 30-2-15, Zone1 30-2-15 to 39-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES
1) Unbalanced roof live loads have been considered for this design.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

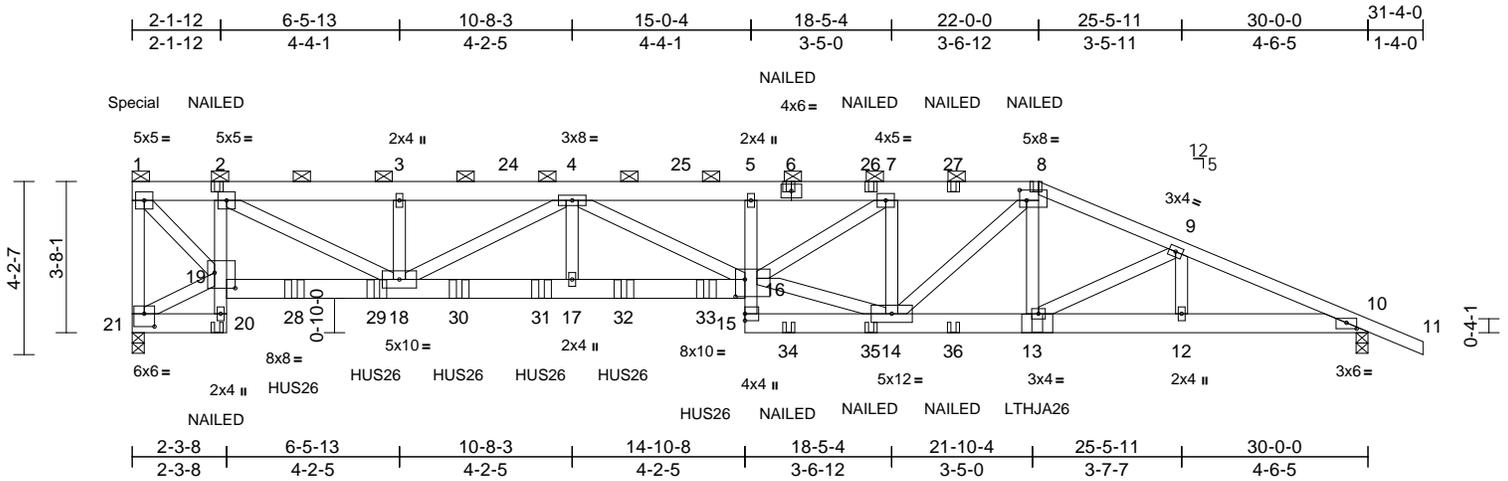
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260108-01KM	Truss H06	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T39754993
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:20
ID:ZS06G5qSW1UHd4EVrsOvauzxQ3n-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:55.7

Plate Offsets (X, Y): [8:0-2-0,0-3-0], [10:0-3-0,0-1-11], [16:0-2-12,0-5-0], [19:0-6-0,0-4-8], [21:0-3-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.33	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.56	16-17	>637	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.18	10	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								

Weight: 427 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 8-11:2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 20-2,5-15:2x4 SP No.2, 19-16:2x6 SP No.1
WEBS 2x4 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-12 max.): 1-8.
BOT CHORD Structural wood sheathing directly applied or 9-7-12 oc bracing.
REACTIONS
(size) 10=0-3-8, 21=0-3-8
Max Horiz 21=-162 (LC 6)
Max Uplift 10=-880 (LC 8), 21=-1104 (LC 4)
Max Grav 10=2836 (LC 1), 21=3704 (LC 1)
FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-3667/1054, 1-2=-3450/1019, 2-3=-8292/2457, 3-4=-8292/2457, 4-5=-11209/3321, 5-7=-11024/3270, 7-8=-7644/2299, 8-9=-6604/1970, 9-10=-6801/1992, 10-11=0/28
BOT CHORD 20-21=-6/35, 19-20=0/110, 2-19=-2872/956, 18-19=-931/3674, 17-18=-3128/11067, 16-17=-3128/11067, 15-16=-9/205, 5-16=-227/147, 14-15=-302/1077, 13-14=-1695/6115, 12-13=-1761/6253, 10-12=-1761/6253
WEBS 19-21=-47/153, 1-19=-1388/4940, 2-18=-1578/5306, 3-18=-171/152, 4-18=-3190/945, 4-17=-317/1251, 4-16=-67/189, 7-14=-3014/1000, 8-14=-612/2129, 8-13=-180/888, 9-13=-200/192, 9-12=-26/89, 14-16=-1897/6754, 7-16=-1187/4125

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1104 lb uplift at joint 21 and 880 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-11-4 from the left end to 13-11-4 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Left Hand Hip) or equivalent at 21-11-10 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 31 lb up at 0-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-8=-54, 8-11=-54, 10-15=-14, 10-15=-14
Concentrated Loads (lb)



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

January 9, 2026

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss H06	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T39754993
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:20
ID:ZS06G5qSW1UHd4EVrsOvauzxQ3n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Vert: 1=-19 (B), 6=-131 (B), 8=-131 (B), 20=-64 (B),
2=-131 (B), 13=-592 (B), 26=-131 (B), 27=-131 (B),
28=-485 (B), 29=-485 (B), 30=-485 (B), 31=-485 (B),
32=-485 (B), 33=-485 (B), 34=-64 (B), 35=-64 (B),
36=-64 (B)

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

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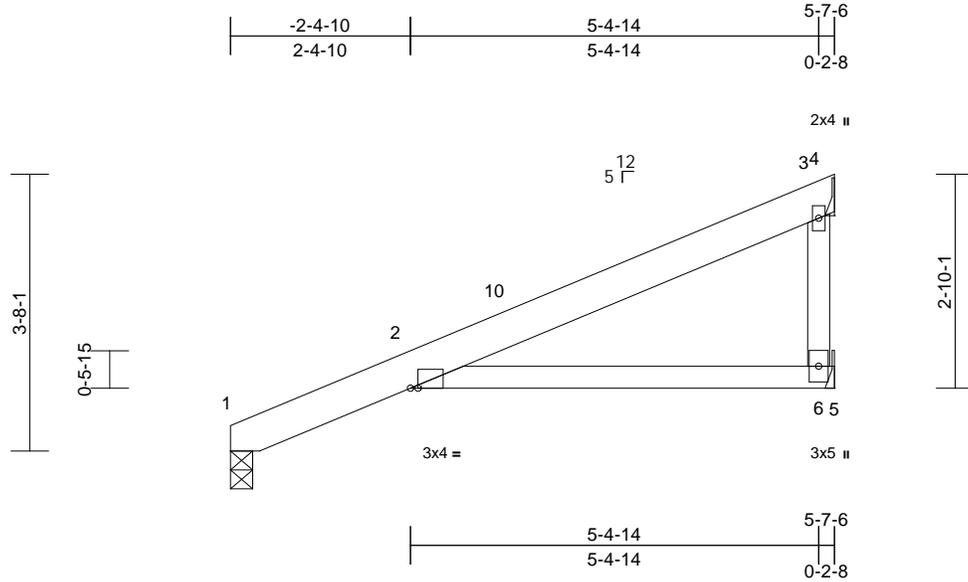
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss J03	Truss Type Jack-Open	Qty 6	Ply 1	Mitch Brown Job Reference (optional)	T39754994
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
ID:4Qu1mcbLLI87uBWZpHfgLnzxD7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:30.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.04	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	1	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-9-11 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=0-3-8, 4= Mechanical, 6= Mechanical
Max Horiz 4=711 (LC 1), 6=-711 (LC 1)
Max Uplift 1=-12 (LC 12), 6=-136 (LC 12)
Max Grav 1=44 (LC 1), 6=499 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-13/42, 2-3=-602/829, 3-4=-427/656
BOT CHORD 2-6=-717/698, 5-6=0/0
WEBS 3-6=-458/419

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 -1-0-9 to 1-10-11,
Zone1 1-10-11 to 6-8-15 zone; cantilever left and right
exposed ; end vertical 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 1 SP No.2 .

- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 1 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 12 lb uplift at joint
1 and 136 lb uplift at joint 6.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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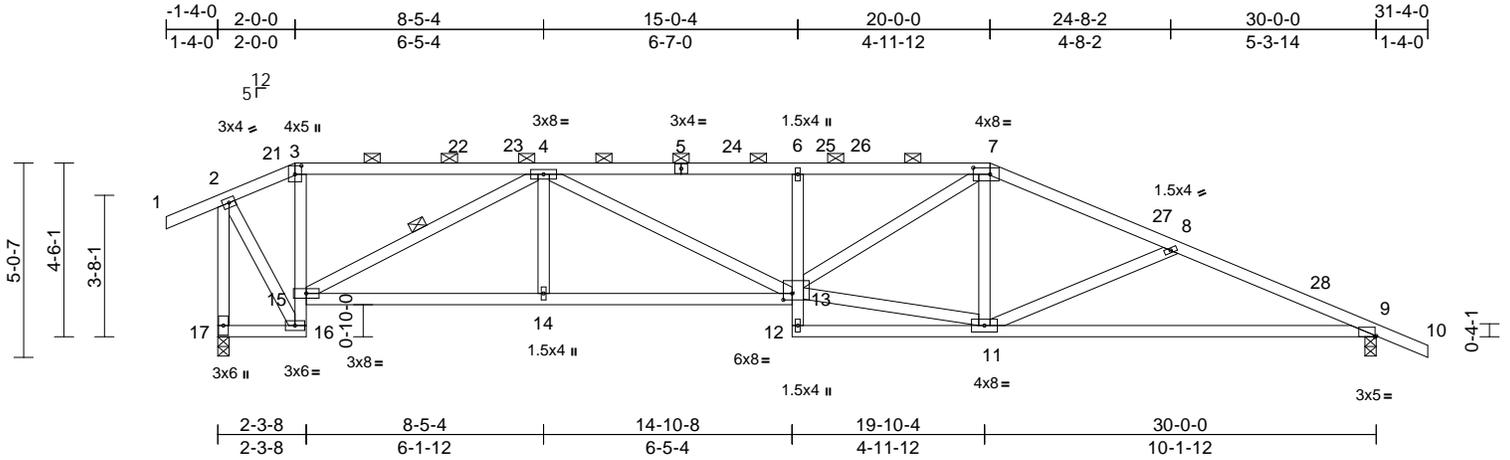
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job 260108-01KM	Truss H01	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754995
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Fri Jan 09 08:35:42
ID:og2X1udw4JfPs9ozRLgGJzxQOj-GrYvO5nim3bwnRA3zAQyO4XaBFsdX?RNGR3D5dzJqF

Page: 1



Scale = 1:59.4

Plate Offsets (X, Y): [3:0-2-11,0-2-0], [7:0-5-4,0-2-0], [9:0-0-6,Edge], [13:0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.22	11-20	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.42	11-20	>856	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.15	9	n/a	n/a
BCDL	7.0	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.2

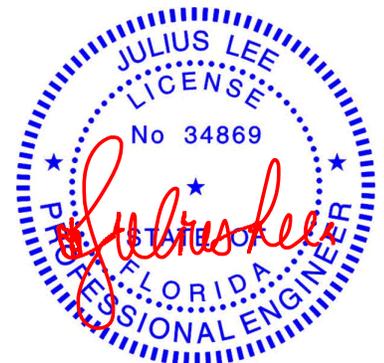
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-15 max.): 3-7.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-15

REACTIONS
(lb/size) 9=1087/0-3-8, 17=1095/0-3-8
Max Horiz 17=-188 (LC 10)
Max Uplift 9=-365 (LC 12), 17=-368 (LC 12)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-532/274, 3-21=-498/279,
3-22=-556/280, 22-23=-556/280,
4-23=-555/280, 4-5=-2273/851,
5-24=-2273/851, 6-24=-2273/851,
6-25=-2239/843, 25-26=-2239/843,
7-26=-2239/843, 7-27=-1764/653,
8-27=-1819/638, 8-28=-2141/782,
9-28=-2165/769, 2-17=-1148/460
BOT CHORD 15-16=-709/292, 14-15=-498/1864,
13-14=-498/1864, 6-13=-327/191,
9-11=-646/1976
WEBS 4-15=-1486/516, 4-14=0/259, 4-13=-181/462,
11-13=-378/1516, 8-11=-383/246,
2-16=-309/914, 7-13=-254/782

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C 32-2-15 to 39-4-0 zone;
cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 17 and 365 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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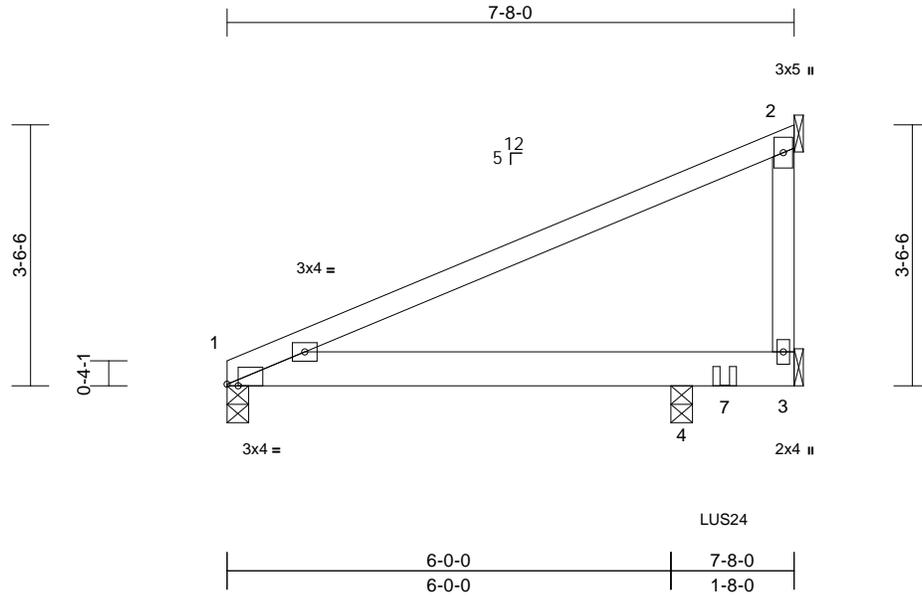
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Job 260108-01KM	Truss J08	Truss Type Jack-Open Girder	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754996
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
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Page: 1



Scale = 1:31

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	0.03	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.04	4-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=0-3-8, 2= Mechanical, 3= Mechanical, 4=0-3-8
Max Horiz 1=115 (LC 8)
Max Uplift 1=-37 (LC 21), 2=-93 (LC 21), 3=-80 (LC 17), 4=-173 (LC 8)
Max Grav 1=193 (LC 1), 2=145 (LC 1), 3=142 (LC 21), 4=595 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-165/97
BOT CHORD 1-4=-16/9, 3-4=0/0
WEBS 2-3=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFERS (directional); cantilever left and right exposed;
end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 1 SP No.2 , Joint 4 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 93 lb uplift at joint 2, 80 lb uplift at joint 3 and 173 lb uplift at joint 4.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent at 6-8-12 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 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 (lb/ft)
Vert: 1-2=-54, 1-3=-14
Concentrated Loads (lb)
Vert: 7=-437 (F)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

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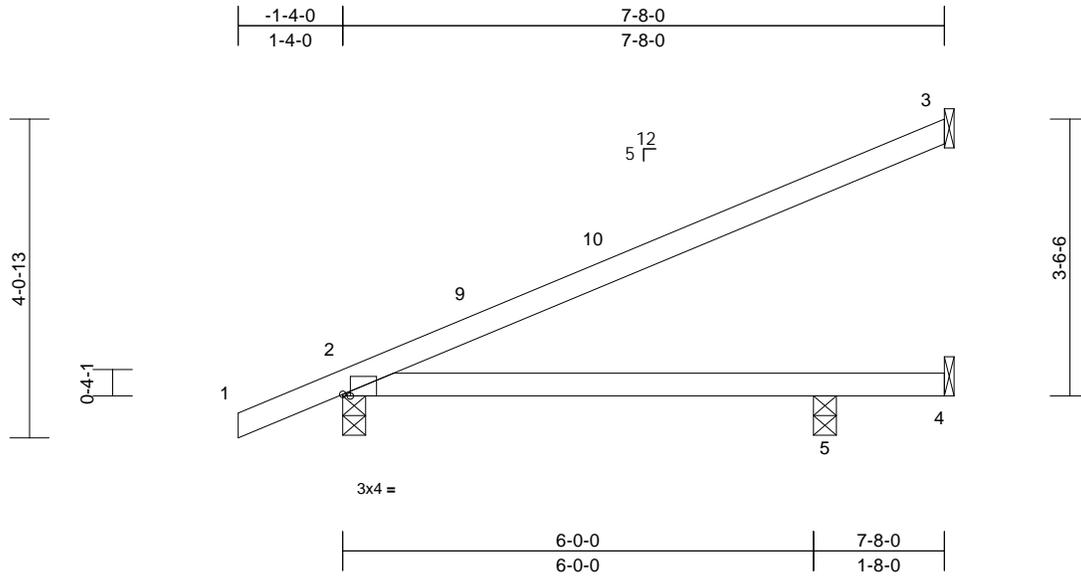
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss J07	Truss Type Jack-Open	Qty 3	Ply 1	Mitch Brown Job Reference (optional)	T39754997
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
ID:p5wFE34ZCiw_tIjZq0DQTDzxQcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.10	5-8	>729	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.12	5-8	>612	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 26 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 Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 2=148 (LC 12)
Max Uplift 2=-115 (LC 12), 3=-102 (LC 12), 4=-98 (LC 1), 5=-34 (LC 12)
Max Grav 2=293 (LC 1), 3=165 (LC 1), 4=35 (LC 12), 5=250 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-146/55
BOT CHORD 2-5=-69/109, 4-5=0/0

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 7-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: , Joint 2 SP No.2 , Joint 5 SP No.2 .
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 3, 115 lb uplift at joint 2, 98 lb uplift at joint 4 and 34 lb uplift at joint 5.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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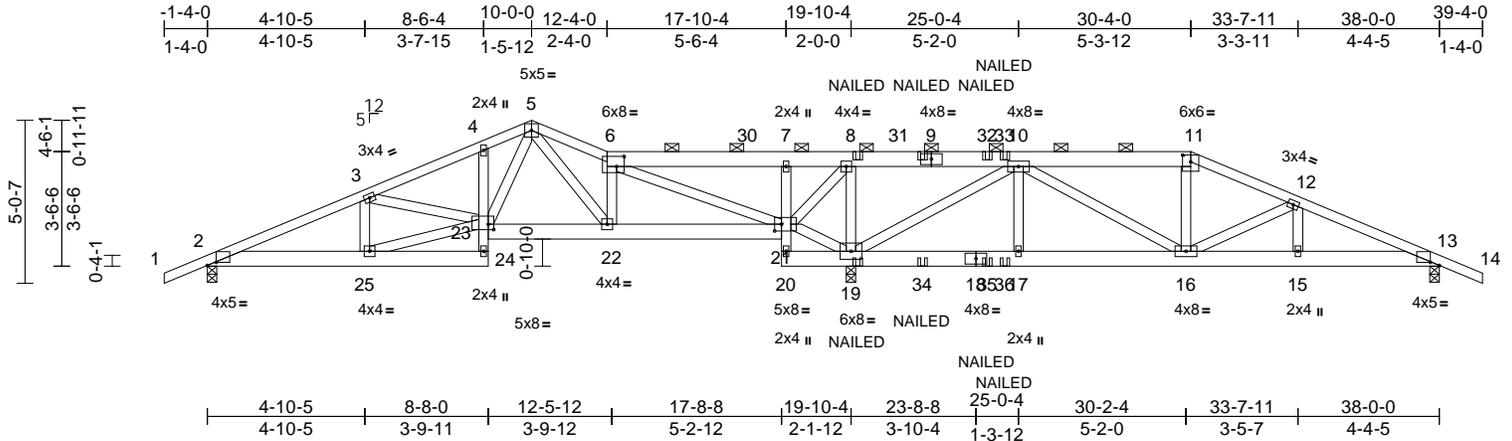
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss T05	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T39754998
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:23
ID:dFHUW9rKcYg8DjAHKqjuzxQcE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:70.7

Plate Offsets (X, Y): [2:0-3-5,0-1-2], [6:0-2-12,0-3-12], [11:0-3-0,0-2-9], [13:0-3-5,0-1-2], [21:0-2-8,0-2-8], [23:0-2-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.02	22-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.03	22-23	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.01	13	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								Weight: 504 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 9-11,9-6:2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 24-4:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-11.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 13=0-3-8, 19=0-3-8
Max Horiz 2=-113 (LC 6)
Max Uplift 2=-243 (LC 32), 13=-273 (LC 8), 19=-978 (LC 8)
Max Grav 2=594 (LC 23), 13=590 (LC 20), 19=1874 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-999/342, 3-4=-819/319, 4-5=-794/354, 5-6=-608/342, 6-7=-249/708, 7-8=-242/690, 8-10=-254/996, 10-11=-636/362, 11-12=-715/370, 12-13=-1003/428, 13-14=0/28
BOT CHORD 2-25=-235/891, 24-25=-29/112, 23-24=0/60, 4-23=-137/88, 22-23=-87/530, 21-22=-137/542, 19-20=-20/17, 17-19=-365/450, 16-17=-365/450, 15-16=-319/905, 13-15=-319/905
WEBS 3-25=-99/81, 23-25=-211/799, 3-23=-222/113, 5-23=-153/454, 5-22=-131/89, 12-16=-320/123, 12-15=0/128, 6-22=-24/181, 6-21=-1276/374, 8-19=-747/277, 10-17=-110/200, 11-16=-74/140, 20-21=-48/56, 7-21=-234/195, 10-19=-1475/775, 10-16=-317/526, 19-21=-1051/411, 8-21=-267/552

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2, 978 lb uplift at joint 19 and 273 lb uplift at joint 13.

- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-54, 5-6=-54, 6-11=-54, 11-14=-54, 2-24=-14, 21-23=-14, 13-20=-14
Concentrated Loads (lb)
Vert: 9=-111 (F), 19=55 (F), 8=-111 (F), 32=-111 (F), 33=-91 (F), 34=55 (F), 35=55 (F), 36=-27 (F)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

NOTES

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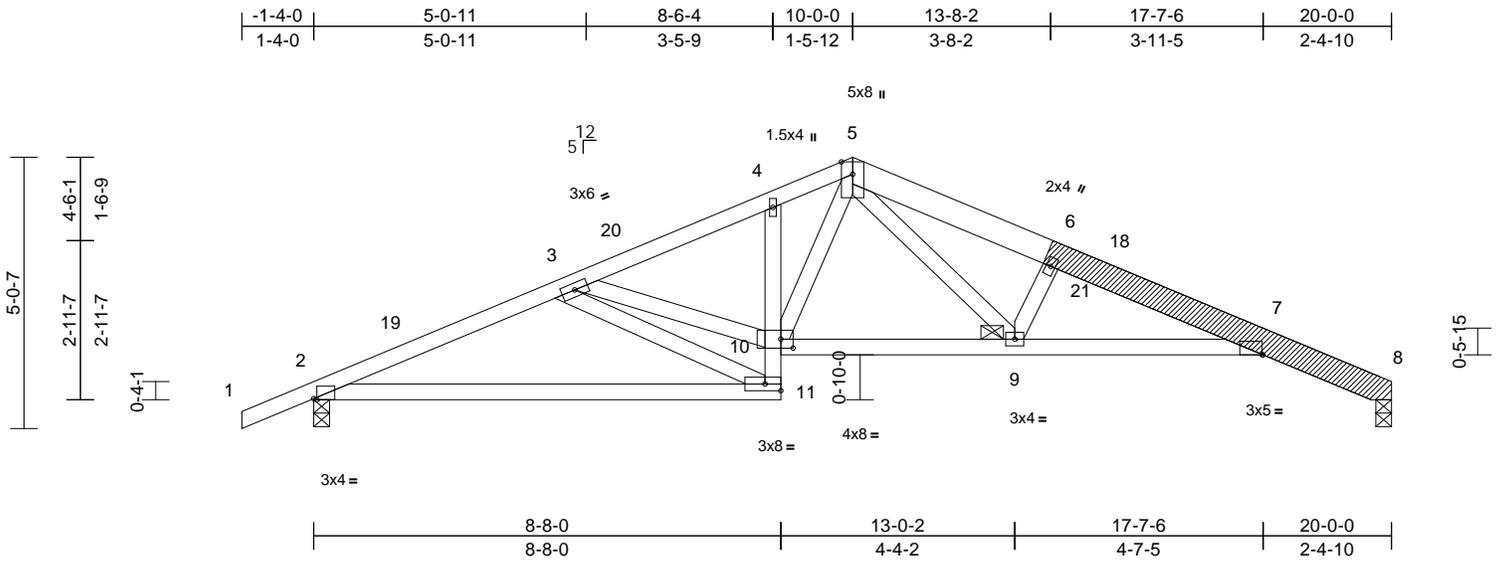


Job 260108-01KM	Truss T04	Truss Type Roof Special	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T39754999
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Fri Jan 09 09:01:56
ID:HIUdRP5Cz2rUSHIOkKf0rzxQcJ-NJB2Le6YQOyZHZOk_fwI?mx61wCo9tYj1O0SaSzx8uf

Page: 1



Scale = 1:42.5

Plate Offsets (X, Y): [2:0-0-10,Edge], [7:0-0-3,Edge], [10:0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.15	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.28	11-14	>858	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.14	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-8:2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 LBR SCAB 6-8 SP No.2 one side

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins.
 BOT CHORD Structural wood sheathing directly applied or 6-10-9 oc bracing.
 JOINTS 1 Brace at Jt(s): 9

REACTIONS (lb/size) 2=750/0-3-8, 8=675/0-3-8
 Max Horiz 2=103 (LC 11)
 Max Uplift 2=-265 (LC 12), 8=-195 (LC 12)

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

TOP CHORD 2-19=-1334/633, 3-19=-1312/645,
 3-20=-1290/604, 4-20=-1243/613,
 4-5=-1297/683, 5-6=-1718/827,
 6-21=-1740/822, 18-21=-1750/819,
 7-18=-1796/812, 7-8=-254/144
 BOT CHORD 2-11=-533/1211, 10-11=-219/564,
 9-10=-327/984, 7-9=-707/1742
 WEBS 3-11=-1105/543, 3-10=-395/960,
 5-10=-264/491, 5-9=-382/810, 6-9=-532/331

NOTES

- Attached 7-0-0 scab 6 to 8, front face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 2-6-14 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-9-2.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C 14-2-15 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 8 and 265 lb uplift at joint 2.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

January 9,2026

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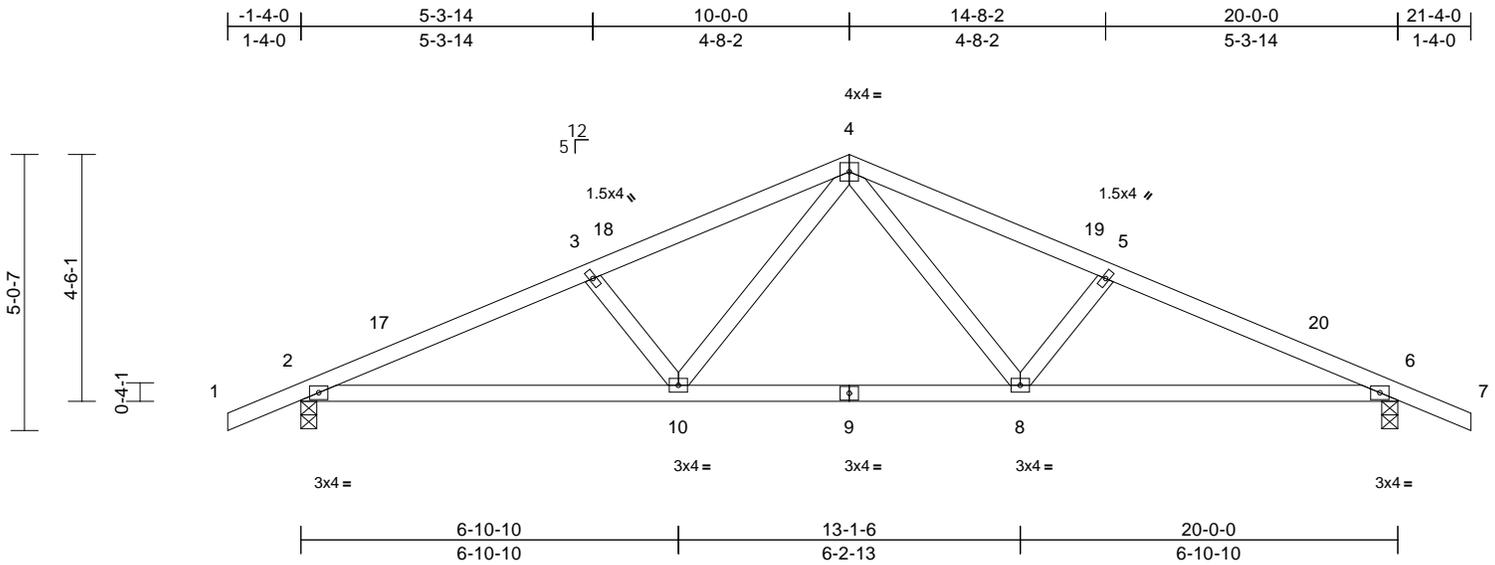
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss T03	Truss Type Common	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39755000
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
ID:HIUdRP5Cz2?RUSHIOkKf0rzxQcJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.06	8-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	8-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.03	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 89 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-1 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 8-7-5 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-104 (LC 10)
Max Uplift 2=-264 (LC 12), 6=-264 (LC 12)
Max Grav 2=752 (LC 1), 6=752 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-1339/586, 3-4=-1186/546,
4-5=-1186/546, 5-6=-1339/586, 6-7=0/28
BOT CHORD 2-10=-447/1209, 8-10=-233/806,
6-8=-468/1209
WEBS 3-10=-285/228, 4-10=-165/409,
4-8=-165/409, 5-8=-285/228

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0,
Zone1 1-8-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1
14-2-15 to 21-4-0 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2 and 264 lb uplift at joint 6.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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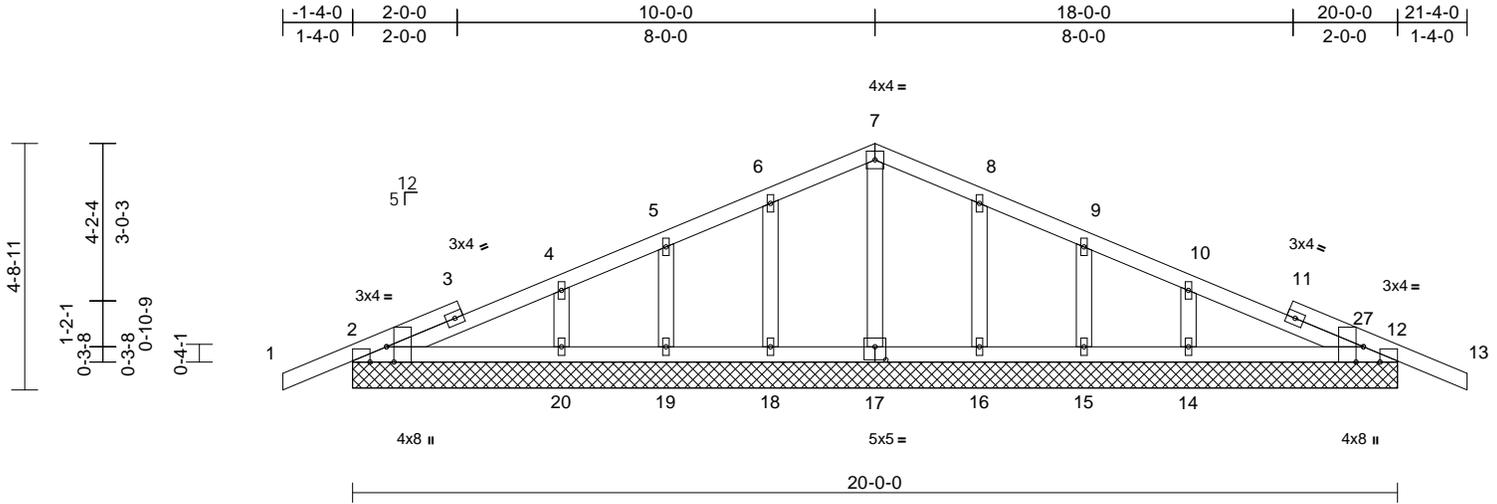
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss GE02	Truss Type Common Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39755001
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:19
ID:wKggkOi138TPZOHPobA8UJnzxQcO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:43.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [12:0-3-8,Edge], [12:0-3-13,Edge], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 94 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=20-0-0, 12=20-0-0, 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0, 18=20-0-0, 19=20-0-0, 20=20-0-0
Max Horiz 2=-99 (LC 10)
Max Uplift 2=-107 (LC 12), 12=-103 (LC 12), 14=-73 (LC 12), 15=-46 (LC 12), 16=-57 (LC 12), 18=-57 (LC 12), 19=-46 (LC 12), 20=-74 (LC 12)
Max Grav 2=196 (LC 23), 12=173 (LC 24), 14=240 (LC 24), 15=94 (LC 1), 16=156 (LC 24), 17=137 (LC 1), 18=156 (LC 23), 19=92 (LC 1), 20=245 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-4=-52/96, 4-5=-40/67, 5-6=-26/94, 6-7=-39/153, 7-8=-39/153, 8-9=-17/94, 9-10=-12/44, 10-12=-54/64, 12-13=0/28
BOT CHORD 2-20=-46/111, 19-20=-46/111, 18-19=-46/111, 16-18=-46/111, 15-16=-46/111, 14-15=-46/111, 12-14=-46/111
WEBS 7-17=-112/0, 6-18=-123/136, 5-19=-84/113, 4-20=-171/178, 8-16=-122/136, 9-15=-84/114, 10-14=-169/177

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2, 103 lb uplift at joint 12, 57 lb uplift at joint 18, 46 lb uplift at joint 19, 74 lb uplift at joint 20, 57 lb uplift at joint 16, 46 lb uplift at joint 15, 73 lb uplift at joint 14, 107 lb uplift at joint 2 and 103 lb uplift at joint 12.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

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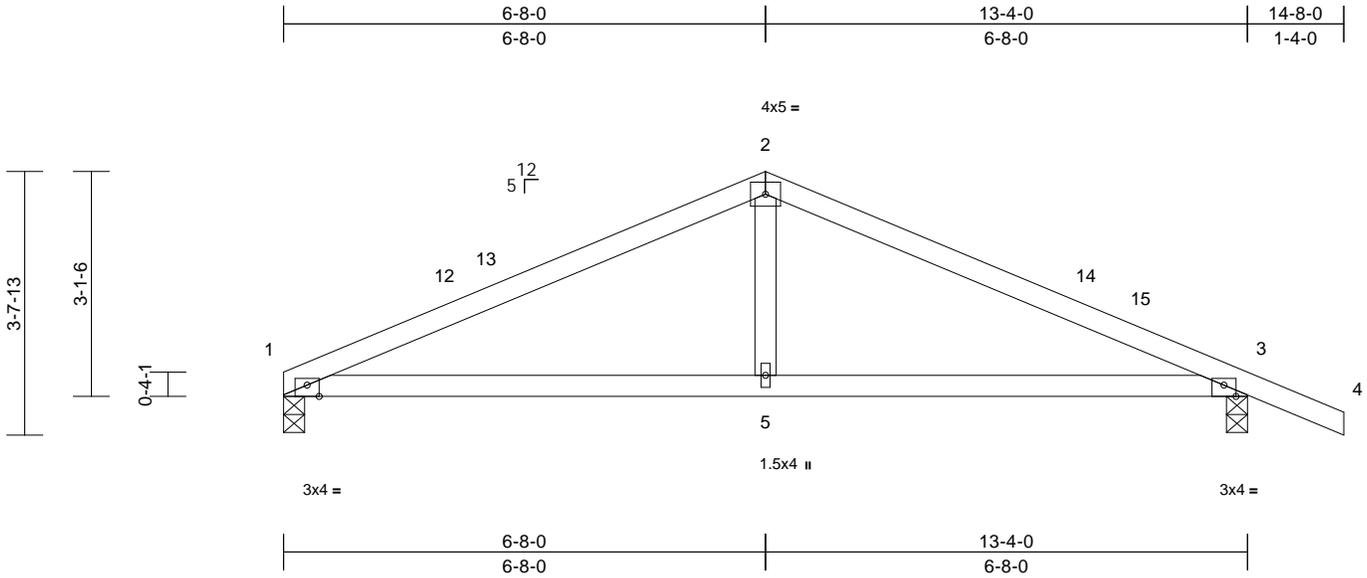
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss T02	Truss Type Common	Qty 5	Ply 1	Mitch Brown Job Reference (optional)	T39755002
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
ID:HIUdRP5Cz2rUSHIOkfrzQcJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.07	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.12	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 9-9-4 oc bracing.

REACTIONS

(size) 1=0-3-8, 3=0-3-8
Max Horiz 1=-72 (LC 10)
Max Uplift 1=-130 (LC 12), 3=-201 (LC 12)
Max Grav 1=450 (LC 1), 3=529 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-729/450, 2-3=-730/438, 3-4=0/28
BOT CHORD 1-5=-287/620, 3-5=-287/620
WEBS 2-5=-26/263

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 14-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 1 and 201 lb uplift at joint 3.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

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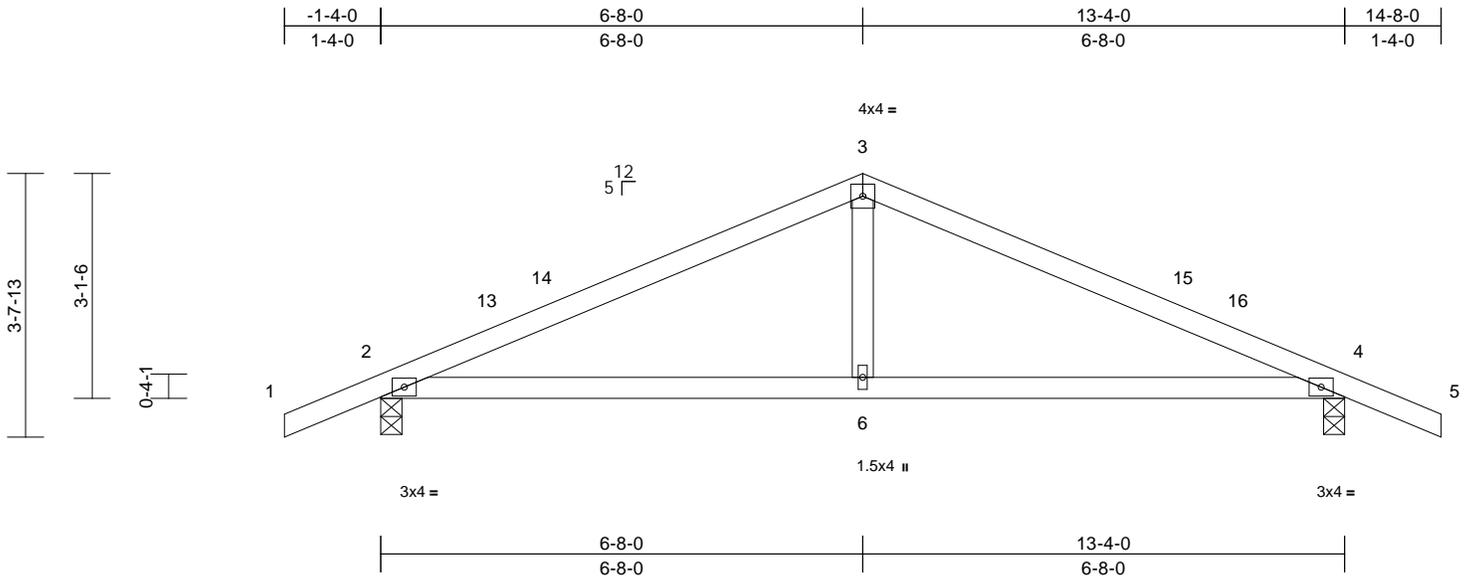
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss T01	Truss Type Common	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T39755003
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:22
ID:HIUdRP5Cz?2RUSHIOkKf0rzxQcJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.06	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

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

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

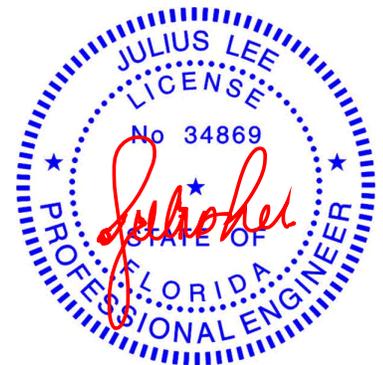
REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-74 (LC 10)
Max Uplift 2=-198 (LC 12), 4=-198 (LC 12)
Max Grav 2=525 (LC 1), 4=525 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-718/407, 3-4=-718/407, 4-5=0/28
BOT CHORD 2-6=-240/608, 4-6=-240/608
WEBS 3-6=-6/261

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 14-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2 and 198 lb uplift at joint 4.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 9, 2026

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

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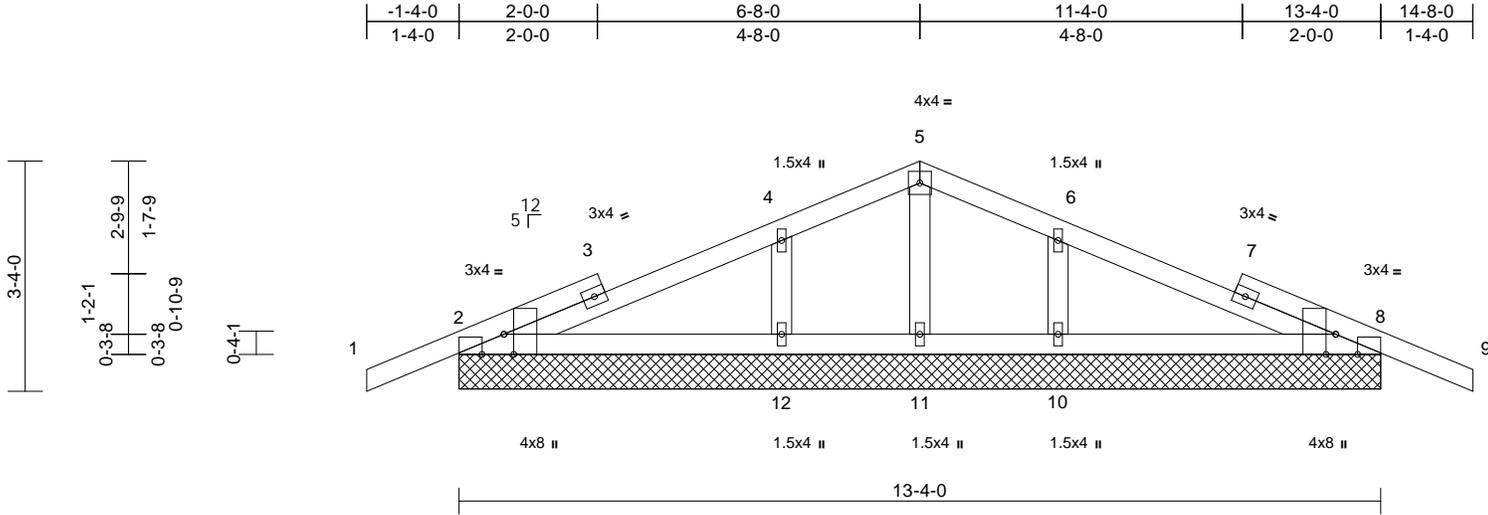
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss GE01	Truss Type Common Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39755004
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40:19
ID:S87MBM0RN9HimXqb1TdFmazxQcP-RFC?PsB70Hq3NSgPqnL8w3lTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.2
Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [8:0-3-8,Edge], [8:0-3-13,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 58 lb	FT = 20%

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

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

REACTIONS (size) 2=13-4-0, 8=13-4-0, 10=13-4-0, 11=13-4-0, 12=13-4-0
Max Horiz 2=67 (LC 10)
Max Uplift 2=-108 (LC 12), 8=-108 (LC 12), 10=-98 (LC 12), 12=-98 (LC 12)
Max Grav 2=194 (LC 23), 8=194 (LC 24), 10=301 (LC 1), 11=82 (LC 1), 12=301 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-4=-93/149, 4-5=0/103, 5-6=0/103, 6-8=-94/145, 8-9=0/28
BOT CHORD 2-12=-105/191, 11-12=-105/191, 10-11=-105/191, 8-10=-105/191
WEBS 5-11=-112/41, 4-12=-208/278, 6-10=-208/278

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=4.2psf; h=18ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2, 108 lb uplift at joint 8, 98 lb uplift at joint 12, 98 lb uplift at joint 10, 108 lb uplift at joint 2 and 108 lb uplift at joint 8.

LOAD CASE(S) Standard

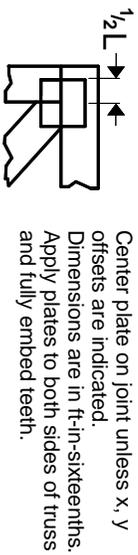


Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

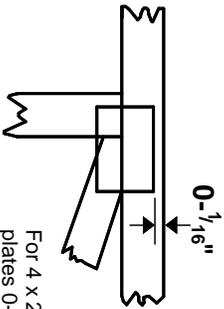
January 9, 2026

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.

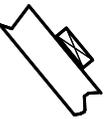
* Plate location details available in MITtek software or upon request.

PLATE SIZE

4 X 4

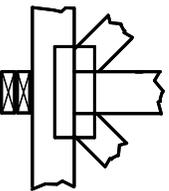
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

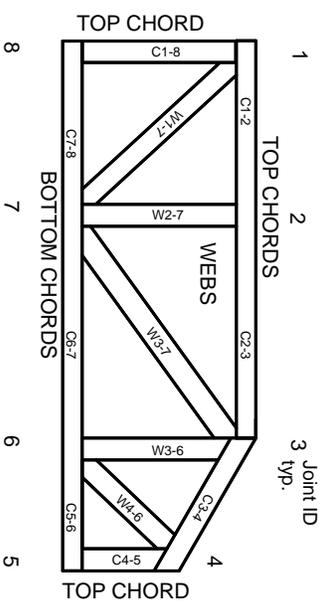


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: 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-1-1988, ESR-2-362, ESR-2-685, ESR-3-282
ESR-4-722, ESL-1-388

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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

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

MITek®

MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023