Production Ticket

19 Lumber
25221 SE HWY 19
Old Town Florida 32680
Business: (352) 469-5008

SOLD TO JBC Builders
235 SW Twilight Way
Lake City FL 32024

JOB NAME McDow

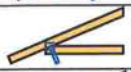
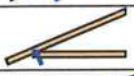
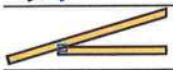
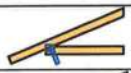
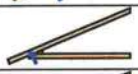
STRUCTURE A

MODEL

SHIP TO
1640 SW Salem Rd.
Lake City FL 32024

TRANSACTION # 1567
STATUS Order
ORDERED This field intentionally left blank.
SCHD DELIVERY This field intentionally left blank.
SALES REP Monica Register
JOB CATEGORY 1567

Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	Base Span SPAN	LUMBER	OVERHANG LEFT	OVERHANG RIGHT	CANTILEVER LEFT	CANTILEVER RIGHT	STUB LEFT	STUB RIGHT	UNIT VOL	TOTAL VOL
	10	5 /12	BJ1	(1-03-07) 11-03	1-00-00	2 x 4	1-04-00		-	-	-	-	2.67	26.67
	6	5 /12	BJ3	(2-01-07) 1-09-03	3-00-00	2 x 4	1-04-00		-	-	-	-	5.33	32.00
	6	5 /12	BJ5	(2-11-07) 2-07-03	5-00-00	2 x 4	1-04-00		-	-	-	-	8.00	48.00
	2	3.54 /12	CJ4	(2-01-02) 1-09-00	4-02-03	2 x 4	1-10-10		-	-	-	-	8.00	16.00
	3	3.54 /12	CJ9	(3-09-02) 3-05-00	9-10-01	2 x 4	1-10-10		-	0-00	-	-	20.00	60.00
	18	5 /12	EJ3	(2-01-07) 1-09-03	3-00-00	2 x 4	1-04-00		-	-	-	-	5.33	96.00
	24	5 /12	EJ7	(3-09-07) 3-05-03	7-00-00	2 x 4	1-04-00		-	-	-	-	12.00	288.00
	1	5 /12	EJ7A	(3-09-07) 3-05-03	7-00-00	2 x 4	1-04-00		-	-	-	-	12.00	12.00
	2	5 /12	GR1	(3-09-07) 3-05-03	10-03-08	2 x 4 2 x 6	1-04-00		0-00	0-00	-	-	28.00	56.00
	1	5 /12 2.5 /12	H1	(8-11-10) 8-05-03	49-10-00	2 x 6	1-04-00		0-00	-	-	-	158.33	158.33
	1	5 /12 2.5 /12	H2	(8-01-10) 7-07-03	49-10-00	2 x 6	1-04-00	1-04-00	0-00	-	-	-	157.00	157.00
	1	5 /12 2.5 /12	H3	(7-03-10) 6-09-03	49-10-00	2 x 6	1-04-00	1-04-00	0-00	-	-	-	157.67	157.67
	1	5 /12 2.5 /12	H4	(6-05-10) 5-11-03	49-10-00	2 x 6	1-04-00	1-04-00	0-00	-	-	-	150.67	150.67
	1	5 /12 2.5 /12	H5	(5-07-10) 5-01-03	49-10-00	2 x 6	1-04-00	1-04-00	0-00	-	-	-	156.00	156.00
	1	5 /12 2.5 /12	H6	(4-09-10) 4-03-03	49-10-00	2 x 6	1-04-00	1-04-00	0-00	-	-	-	152.00	152.00
	1	5 /12 2.5 /12	H7	(10-07-10) 10-01-03	49-10-00 49-06-14	2 x 6	1-04-00		0-00	-	-	3-02	160.00	160.00
	1	5 /12 2.5 /12	H8	(9-09-10) 9-03-03	49-10-00	2 x 6	1-04-00		0-00	-	-	-	159.67	159.67
	1	5 /12 2.5 /12	H9	(10-07-10) 10-01-03	49-10-00 49-06-14	2 x 6	1-04-00		0-00	-	-	3-02	173.33	173.33
	1	5 /12 2.5 /12	H10	(9-09-10) 9-03-03	49-10-00	2 x 6	1-04-00		0-00	-	-	-	176.00	176.00
	1	5 /12	H11	(8-11-10) 8-05-03	54-02-00 49-06-14	2 x 6	1-04-00		-	-	-	4-07-02	168.67	168.67
	1	5 /12	H12	(8-01-10) 7-07-03	54-02-00 49-06-14	2 x 6	1-04-00		0-00	-	-	4-07-02	172.00	172.00
	1	5 /12	H13	(7-03-10) 6-09-03	54-02-00 49-06-14	2 x 6	1-04-00		0-00	-	-	4-07-02	165.33	165.33
	1	5 /12	H14	(6-05-10) 5-11-03	54-02-00 49-06-14	2 x 6	1-04-00		0-00	-	-	4-07-02	160.00	160.00
	1	5 /12	H15	(5-07-10) 5-01-03	54-02-00 49-06-14	2 x 6	1-04-00		0-00	-	-	4-07-02	154.67	154.67

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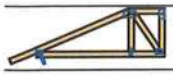
Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	Base Span SPAN	LUMBER	OVERHANG LEFT	OVERHANG RIGHT	CANTILEVER LEFT	CANTILEVER RIGHT	STUB LEFT	STUB RIGHT	UNIT VOL	TOTAL VOL
	1	5 /12	H16	(4-09-10) 4-03-03	54-02-00 49-06-14	2 x 6	1-04-00		0-00	-	-	4-07-02	149.67	149.67
	1	5 /12	H17	(2-11-09) 2-07-05	7-00-00	2 x 4	1-04-00		-	-	-	-	17.33	17.33
	1 2-ply	5 /12	HGR38	(2-08-02) 2-03-14	38-08-00	2 x 4 2 x 6	1-04-00		-	-	-	-	192.00	192.00
	1 2-ply	5 /12	HGR38A	(2-01-07) 1-09-03	38-08-00	2 x 4 2 x 8	1-04-00		-	-	-	-	221.33	221.33
	1 2-ply	5 /12	HGR49	(3-11-10) 3-05-03	54-02-00	2 x 6	1-04-00		-	-	-	-	304.67	304.67
	1	5 /12 2.5 /12	T1	(11-05-03) 10-10-13	49-10-00 49-06-14	2 x 6	1-04-00		0-00	-	-	3-02	161.67	161.67
	1	5 /12 2.5 /12	T2	(11-05-03) 10-10-13	49-10-00 49-06-14	2 x 6	1-04-00		0-00	-	-	3-02	162.67	162.67
	1	5 /12 2.5 /12	T3	(11-05-03) 10-10-13	49-10-00 49-06-14	2 x 6	1-04-00		0-00	-	-	3-02	162.00	162.00
	1	5 /12 2.5 /12	T4	(11-05-03) 10-10-13	49-10-00 49-06-14	2 x 6	1-04-00		0-00	-	-	3-02	163.33	163.33
	1	5 /12 2.5 /12	T5	(11-05-03) 10-10-13	49-10-00	2 x 6	1-04-00		0-00	-	-	-	161.33	161.33
	1	5 /12 2.5 /12	T6	(11-05-03) 10-10-13	49-10-00 49-06-14	2 x 6	1-04-00		0-00	-	-	3-02	160.33	160.33
	1	5 /12	V1	1-09-01	17-04-06	2 x 4			-	-	-	-	29.33	29.33
	1	5 /12	V2	1-09-01	15-04-06	2 x 4			-	-	-	-	26.00	26.00
	1	5 /12	V3	1-09-01	13-04-06	2 x 4			-	-	-	-	22.67	22.67
	1	5 /12	V4	1-09-01	11-04-06	2 x 4			-	-	-	-	19.33	19.33
	1	5 /12	V5	1-09-01	9-04-06	2 x 4			-	-	-	-	16.00	16.00
	1	5 /12	V6	1-09-01	7-04-06	2 x 4			-	-	-	-	12.67	12.67
	1	5 /12	V7	2-03-05	10-09-13	2 x 4			-	-	-	-	17.33	17.33
	1	5 /12	V8	1-05-05	6-09-13	2 x 4			-	-	-	-	9.33	9.33
	109				**1668.74**									**5065**

Ancillary Items

QTY	TYPE	SIZE	LENGTH	LABEL
1	Hanger	JUS24-2		JUS24-2
8	Hanger	JUS24		JUS24

MiTek® THE STABILIZER®

MiTek's Innovative, Trade-Friendly Truss Brace

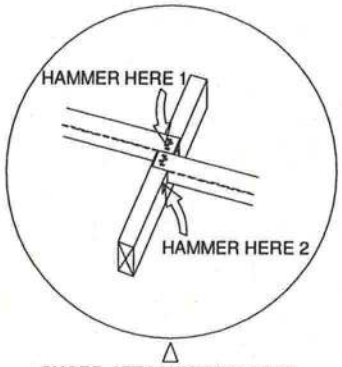
Installation Guide

Erection Contractor is referred to temporary and permanent bracing plan and or WTCA/TPI BCSI 1 for recommendations on truss bracing.
January 1, 2009

IMPORTANT: The Stabilizer shall be used for INSTALLATION lateral restraint for the chords and both INSTALLATION and PERMANENT lateral restraint for the webs.

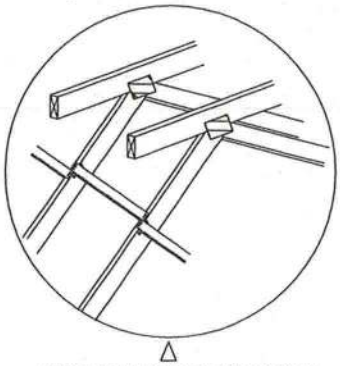
The Stabilizer truss brace and spacer is easily installed with a framing hammer. Just drive the top flap down into the top edge of the truss member to be braced (see Hammer Here 1 in Chord Attachment Detail shown below).

The side tabs are then secured by driving the teeth into the face of the member being braced (see Hammer Here 2 below).



CHORD ATTACHMENT DETAIL

The Stabilizer is properly installed when the top flap and side tabs are flush with the member being braced, and the teeth are fully embedded in the truss member.



WEB RESTRAINT APPLICATION

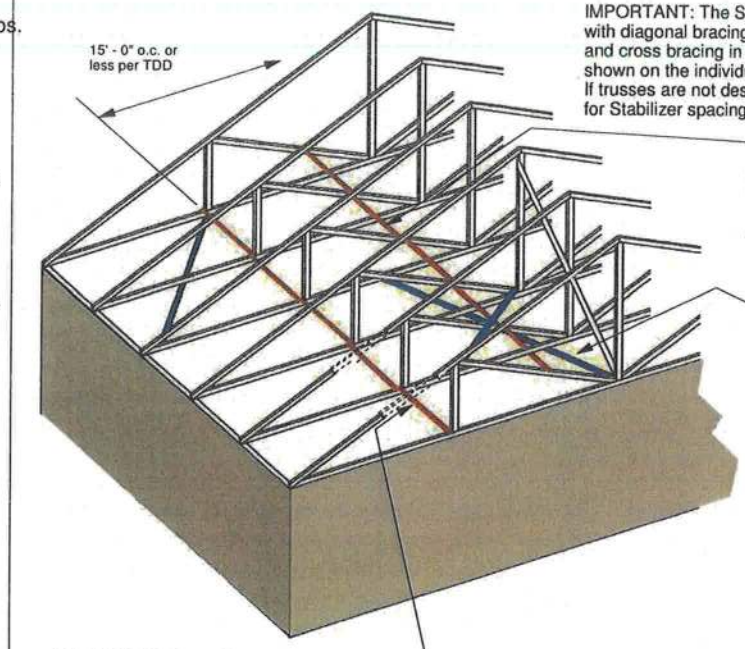
Allowable Axial Load	
Type of Load	Capacity (lbs)
Tension	106
Tension w/fastener*	154
Compression	422

* Fastener shall be one (1) 8d or 10d common wire nail inserted through a slot in the top flap.

MiTek®

POWER TO PERFORM.™

Typical Lateral Web & Bottom Chord Bracing Layout



IMPORTANT: The Stabilizer must be supplemented with diagonal bracing in the roof and ceiling planes, and cross bracing in the web plane at required intervals shown on the individual truss design drawing (TDD). If trusses are not designed with Stabilizer, see BCSI-1 for Stabilizer spacing and diagonal/cross bracing required.

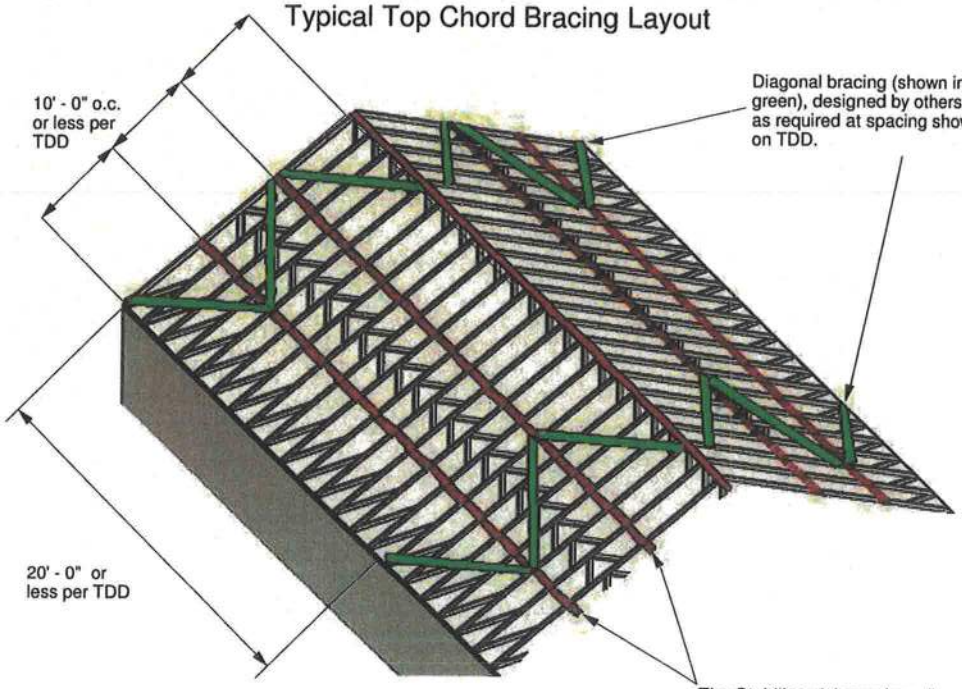
The Stabilizer (shown in red) truss brace on the web member as required by TDD. (see Web Restraint Application on bottom left)

Diagonal/Cross bracing (shown in blue), designed by others, as required at spacing shown on TDD.

IMPORTANT: Ground bracing, not shown on either drawing, is always required.

The Stabilizer (shown in red) truss brace on the bottom chord as required by TDD.

Typical Top Chord Bracing Layout



Diagonal bracing (shown in green), designed by others, as required at spacing shown on TDD.

The Stabilizer (shown in red) truss brace on the top chord as required by TDD.

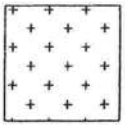
IMPORTANT: The erection contractor is responsible for determining and installing the temporary bracing for the structure, including the trusses. It is most important for the installer to provide adequate means for bracing the first truss installed. The performance of the entire system depends on the adequacy of the ground bracing or other means of bracing the first group of trusses installed.

JANUARY 17, 2017	MISSING PLATE REPAIR DETAIL	MII WEB PLATE

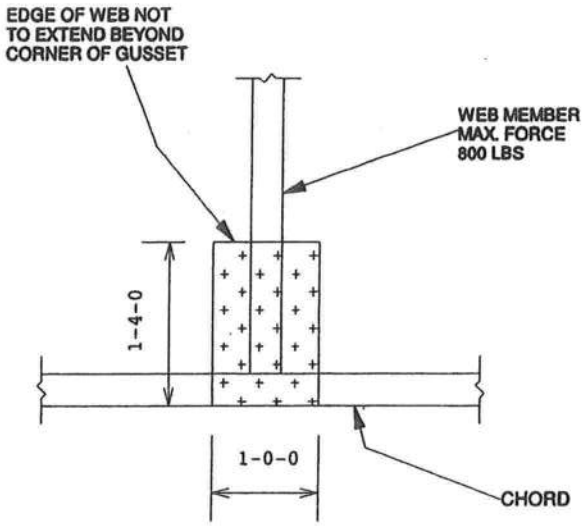
MiTek USA, Inc.

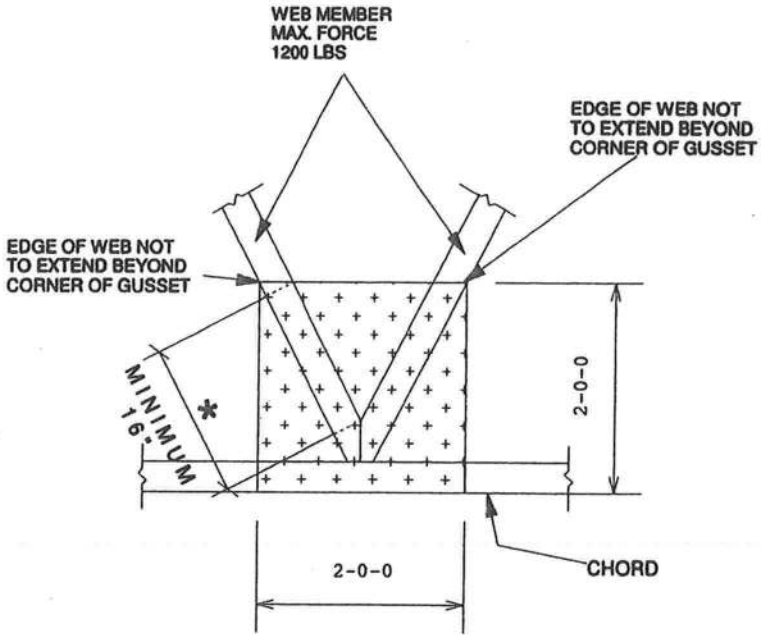
ENGINEERED BY TRENCO
A MiTek Affiliate

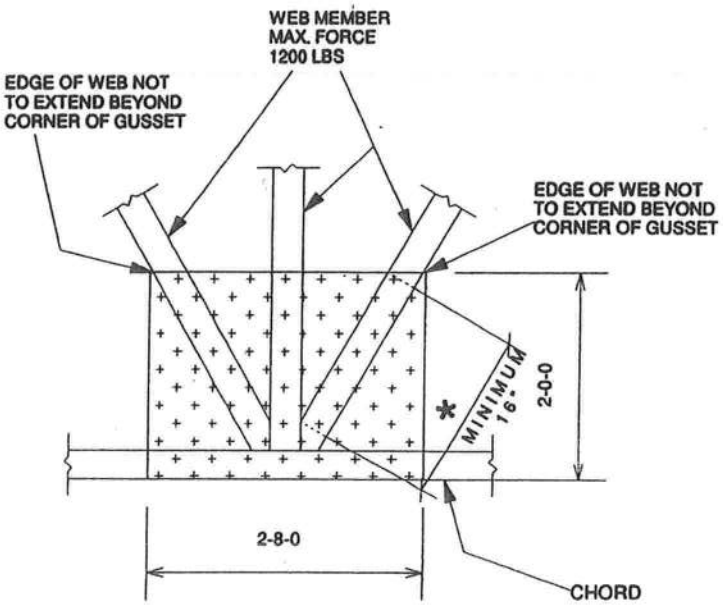
1. ALL MATERIAL IS 2x4
2. THIS DETAIL IS APPLICABLE FOR DESIGNS WITH DOLS. OF 1.15 OR 1.25 AND LUMBER SPECIES SP, DF, HF, OR SPF.
3. DETAIL SHALL BE USED FOR CONDITIONS OF A MISSING OR LOOSE CONNECTOR PLATE ONLY.
4. CHORD MATERIAL IS CONTINUOUS THROUGH JOINT, THERE IS NO MAXIMUM CHORD FORCE AND NO SPLICE PERMITTED.
5. REFER TO MITEK DESIGN DRAWING FOR WEB FORCES.



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X MIN 2.5") NAILS IN 3 ROWS SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.







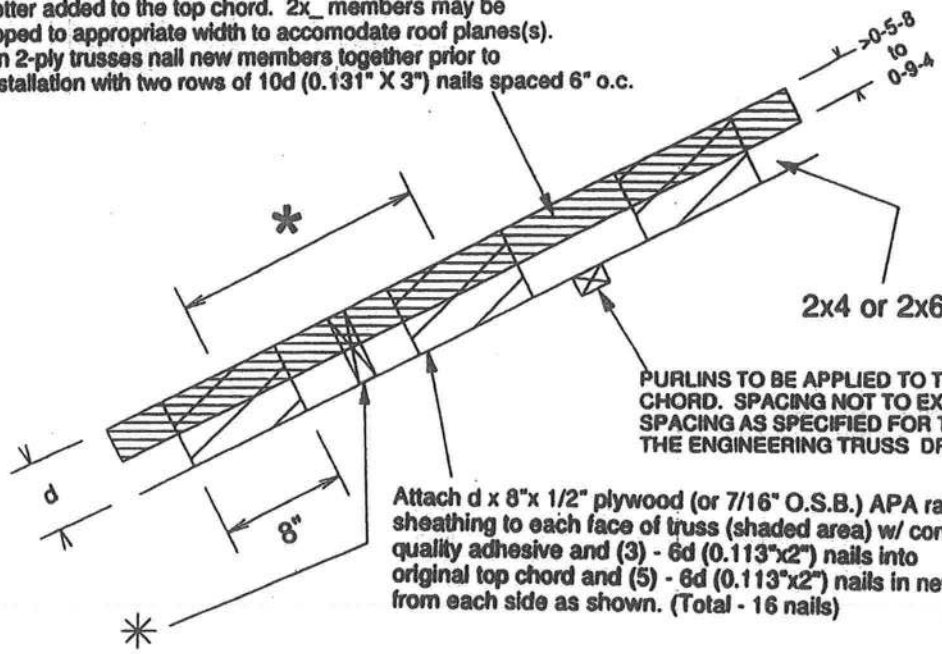
* MEASUREMENT TAKEN AT POINTS WHERE WEB ACHIEVES FULL MEMBER DEPTH (AS MEASURED PERPENDICULAR TO WEB'S SAW-MILLED EDGE)

AUGUST 1, 2016	PAD TOP CHORD TO MATCH ROOF PLANE	MII-REP11A

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

NOTES:
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF THE REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE PLYWOOD GUSSETS AND/OR SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

New 2x_ member (on edge) of No.2 grade or better added to the top chord. 2x_ members may be ripped to appropriate width to accomodate roof planes(s). On 2-ply trusses nail new members together prior to installation with two rows of 10d (0.131" X 3") nails spaced 6" o.c.



✳ Solid blocking or X-Bracing spaced 48" on center required when padding out top chord greater than 0-7-4

* Maximum gusset spacing to be the lesser of 36" o.c. or the maximum Top Chord purlin spacing as shown on the individual Engineering Truss Drawings.

IMPORTANT
This repair to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 3/12 and 12/12 and total top chord loads less than 50 psf.
Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES

APRIL 9, 2020	WEB BRACING RECOMMENDATIONS	MII-WEBBRACE-2

MiTek USA, Inc.

ENGINEERED BY TRENCO
A MiTek Affiliate

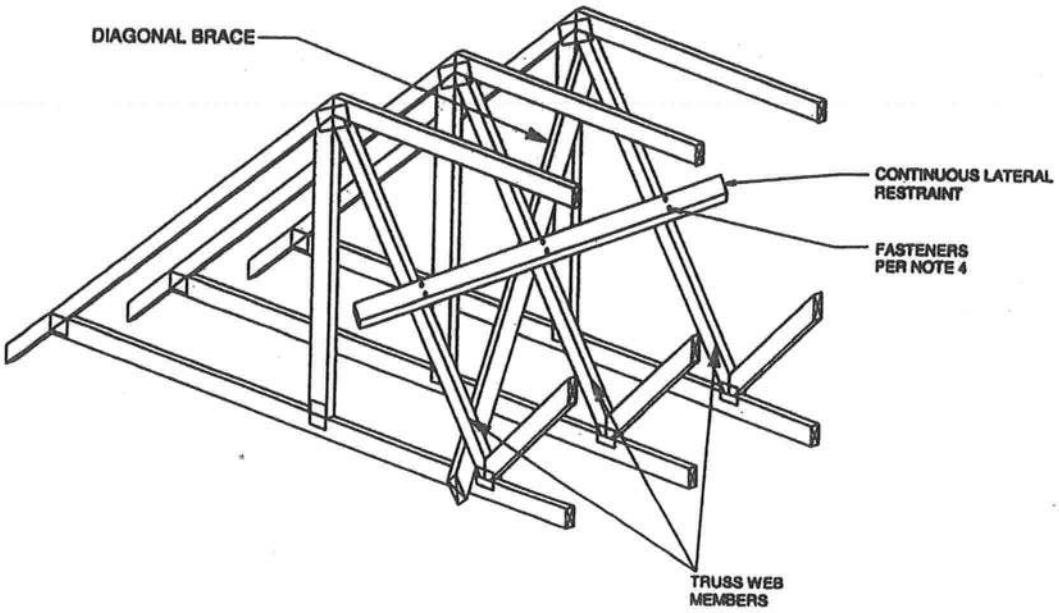
MAXIMUM TRUSS WEB FORCE (lbs.)[7]								
BRACE BAY SIZE[8]	24"O.C. TRUSS SPACING			48"O.C.TRUSS SPACING			72" O.C. TRUSS SPACING	
	BRACING MATERIAL TYPE			BRACING MATERIAL TYPE			BRACING MATERIAL TYPE	
	A	B	C	A	B	C	B	C
10'-0"	1886	1886	2829	—	—	—	—	—
12'-0"	1572	1572	2358	3143	3143	4715	4715	7074
14'-0"	1347	1347	2021	—	—	—	—	—
16'-0"	1179	1179	1768	2358	2358	3536	—	—
18'-0"	1048	1048	1572	—	—	—	3143	4715
20'-0"	943	943	1414	1886	1886	2829	—	—

TYPE	BRACING MATERIALS
A	2 X 3 #3, STD, CONST (SPF, DF, HF, OR SP)
B	2 X 4 #3, STD, CONST (SPF, DF, HF, OR SP)
C	2 X 6 #3 OR BETTER (SPF, DF, HF, OR SP)

FOR STABILIZERS:
FOR A SPACING OF 24" O.C. ONLY, MITEK "STABILIZER" TRUSS BRACING SYSTEMS CAN BE SUBSTITUTED FOR TYPE A, B AND C BRACING MATERIAL. DIAGONAL BRACING FOR STABILIZERS ARE TO BE PROVIDED AT BAY SIZE INDICATED ABOVE. WHERE DIAPHRAGM BRACING IS REQUIRED AT PITCH BREAKS, STABILIZERS MAY BE REPLACED WITH WOOD BLOCKING. SEE "STABILIZER" TRUSS BRACING INSTALLATION GUIDE AND PRODUCT SPECIFICATION.

GENERAL NOTES

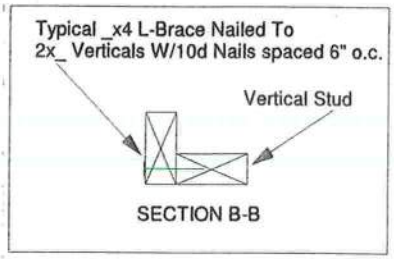
1. DIAGONAL BRACING AND BLOCKING IS REQUIRED TO TRANSFER THE CUMULATIVE LATERAL BRACE FORCE INTO THE ROOF AND/OR CEILING DIAPHRAGM. THE DIAPHRAGM IS AND ANY BLOCKING TO BE DESIGNED BY A QUALIFIED PROFESSIONAL.
2. TABULATED VALUES ARE BASED ON LATERAL BRACE CARRYING 2% OF THE WEB FORCE WITH A DOL = 1.15.
3. DIAGONAL BRACING MATERIAL MUST BE SAME SIZE AND GRADE OR BETTER, AS THE LATERAL BRACE MATERIAL, AND SHALL BE INSTALLED IN SUCH A MANNER THAT IT INTERSECTS WEB MEMBERS AT APPROX. 45 DEGREES AND SHALL BE NAILED AT EACH END AND EACH INTERMEDIATE TRUSS WITH 2 - (0.131"x 3") FOR 2x3 and 2x4 BRACES, AND 3- (0.131"x3") FOR 2x6 BRACES.
4. CONNECT LATERAL BRACE TO EACH TRUSS WITH 2 - (0.131"x3") NAILS FOR 2x3 AND 2x4 LATERAL BRACES AND 3- (0.131"x3") FOR 2x6 LATERAL BRACES.
5. LATERAL BRACE SHOULD BE CONTINUOUS AND SHOULD OVERLAP AT LEAST ONE TRUSS SPACE FOR CONTINUITY.
6. FOR ADDITIONAL GUIDANCE REGARDING DESIGN AND INSTALLATION OF BRACING, CONSULT DSB-89 TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BCSI 1 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, PRODUCED BY STRUCTURAL BUILDING COMPONENT ASSOCIATION, www.sbcindustry.com.
7. REFER TO SPECIFIC MiTek/TRENCO TRUSS DESIGN DRAWING FOR WEB MEMBER FORCE.
8. BAY SIZE SHALL BE MEASURED IN BETWEEN THE CENTERS OF PAIRS OF DIAGONALS.

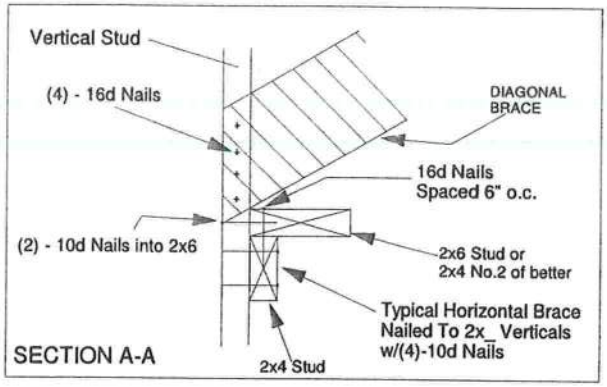


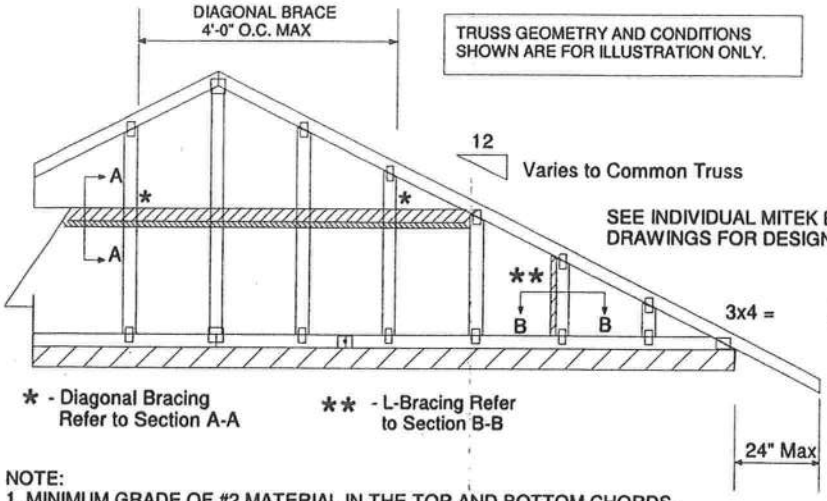
This information is provided to assist in the requirement for permanent bracing of the individual truss web members. Additional bracing may still be required for the stability of the overall roof system. The method shown here is just one method that can be used to provide stability against web buckling. Engineering seal, if any, is supporting the web force chart only.

APRIL 12, 2019	Standard Gable End Detail	MII-GE110-001

MiTek USA, Inc. ENGINEERED BY TRENCO A MiTek Affiliate







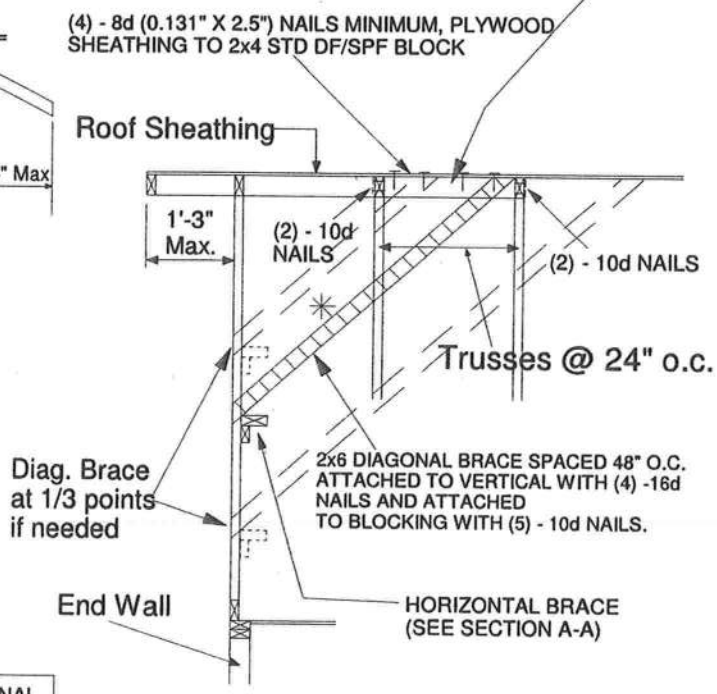
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 DF/SPF Std/Stud	12" O.C.	4-6-3	5-0-7	7-1-7	9-0-5	13-6-8
2x4 DF/SPF Std/Stud	16" O.C.	4-1-3	4-4-5	6-2-0	8-2-7	12-3-10
2x4 DF/SPF Std/Stud	24" O.C.	3-5-8	3-6-11	5-0-7	6-10-15	10-4-7

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 110 MPH
ASCE 7-10, ASCE 7-16 140 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

AUGUST 1, 2016	STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES	MII-REP01A1

MiTek USA, Inc.
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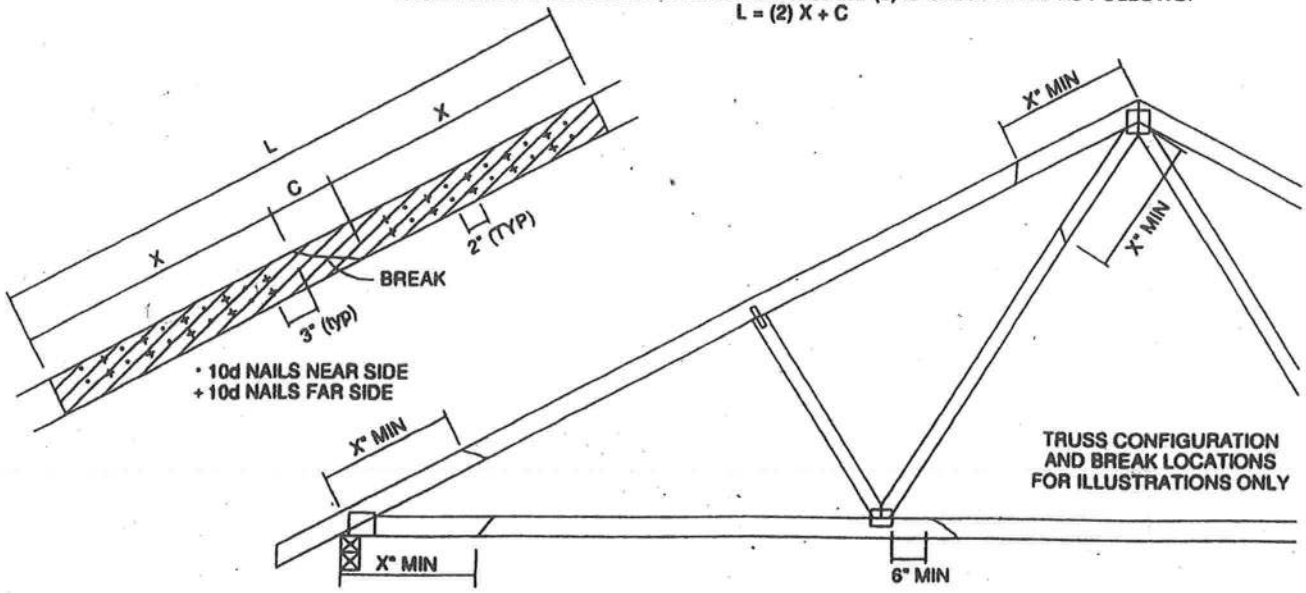
A MiTek Affiliate

TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:
L = (2) X + C



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:
1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

APRIL 12, 2019	STANDARD CAP TRUSS CONNECTION DETAIL	MII-CAP

MiTek USA, Inc.

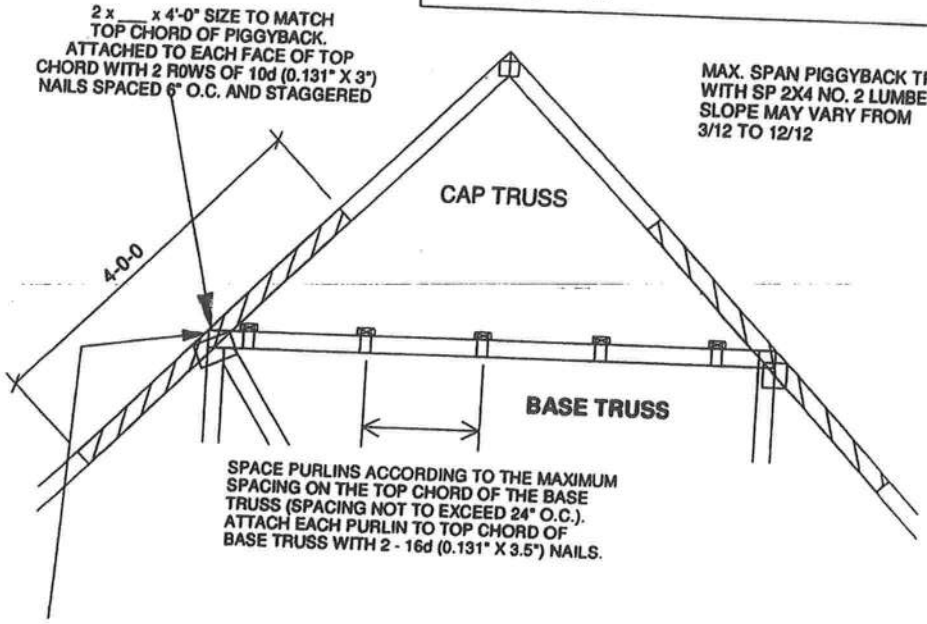
ENGINEERED BY TRENCO
A MiTek Affiliate

DESIGN CRITERIA

LOADING (PSF)
TCLL= 30.0
TCDL= 10.0
TOTAL= 40.0

SPACING 2-0-0
PLATE INCR: 1.15
LUMBER INCR: 1.15
MIN L/DEFL= 240

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ENCLOSED BUILDING
ASCE 7-98, ASCE 7-02, ASCE 7-05 90 MPH
ASCE 7-10, ASCE 7-16 115 MPH
DURATION OF LOAD INCREASE : 1.60



FOR PIGGY BACK TRUSSES WITH SPANS 4' OR LESS SCAB MAY BE OMMITED PROVIDED THAT: ROOF SHEATHING TO BE CONTINUOUS OVER JOINT (SHEATHING TO OVERLAP MINIMUM 12" OVER JOINT)

NOTE:

A PURLIN TO BE LOCATED AT EACH BASE TRUSS JOINT.

APRIL 12, 2019	CONVENTIONAL VALLEY FRAMING DETAIL	MII-VALLEY1

MiTek USA, Inc.

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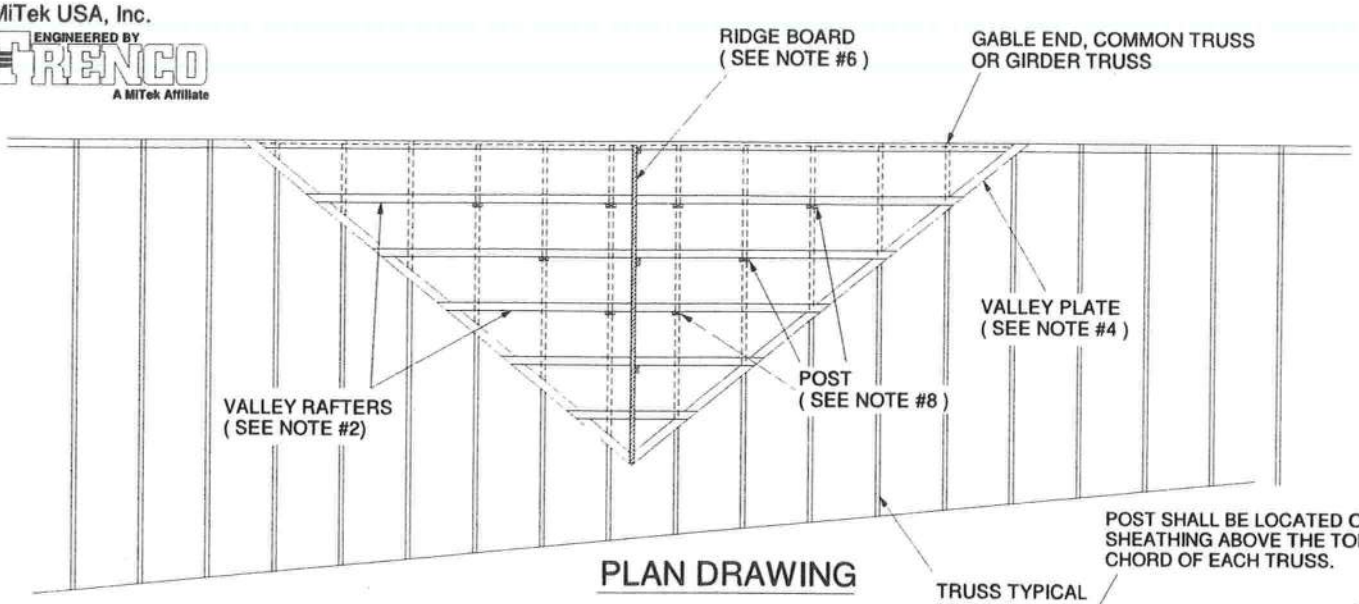
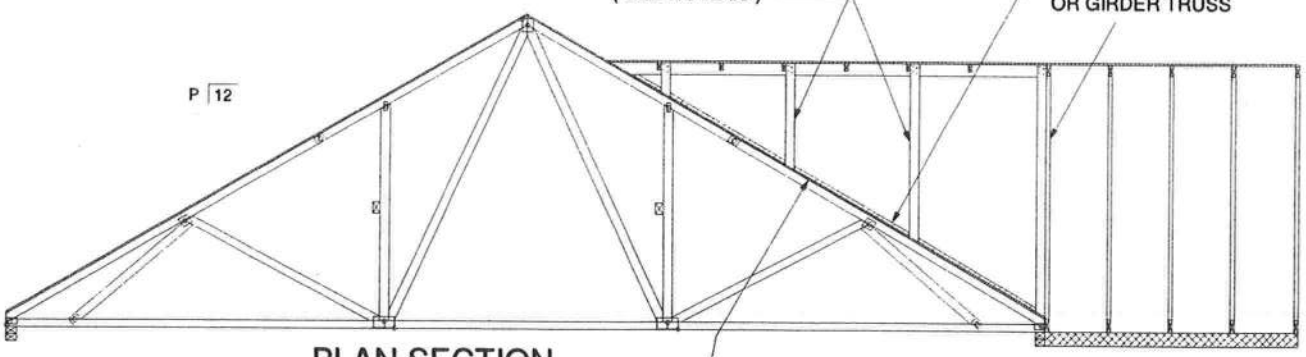
ENGINEERED BY TRENCO
A MiTek Affiliate



PLAN DRAWING

POST SHALL BE LOCATED ON SHEATHING ABOVE THE TOP CHORD OF EACH TRUSS.

TRUSS TYPICAL
(24" O.C.)



PLAN SECTION

TRUSS MUST BE SHEATHED

NOTE:
48" O.C. MAXIMUM POST SPACING

LIVE LOAD = 30 PSF (MAX)
DEAD LOAD = 15 PSF (MAX)
D.O.L. INC = 1.15
ASCE 7-98, ASCE 7-02, ASCE 7-05 90 MPH (MWFRS)
ASCE7-10, ASCE 7-16 115 MPH (MWFRS)

GENERAL SPECIFICATIONS

1. WITH BASE TRUSSES ERECTED (INSTALLED), APPLY SHEATHING TO TOP CHORD OF SUPPORTING (BASE) TRUSSES.
2. BRACE BOTTOM CHORD AND WEB MEMBERS PER TRUSS DESIGNS.
3. DEFINE VALLEY RIDGE BY RUNNING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a.) GABLE END, (b.) GIRDER TRUSS OR (c.) COMMON TRUSS TO THE ROOF SHEATHING.
4. INSTALL 2 x 4 VALLEY PLATES. FASTEN TO EACH SUPPORTING TRUSS WITH (2) 16d (0.131" X 3.5") NAILS.
5. SET 2 x 6 #2 RIDGE BOARD. SUPPORT WITH 2 x 4 POSTS SPACED 48" O.C.. BEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (0.131" X 3") TOE-NAILS.
6. FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD. MAXIMUM RAFTER SPACING IS 24" O.C.. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (0.131" X 3.5") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (0.131" X 3.5") TOE-NAILS.
7. SUPPORT THE VALLEY RAFTERS WITH 2 x 4 POSTS 48" O.C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALLIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSS WITH (2) 16d (0.131" X 3.5") NAILS.
8. POSTS SHALL BE 2 x 4 #2 OR BETTER SPRUCE PINE FIR, DOUG FIR LARCH OR SOUTHERN PINE. POSTS EXCEEDING 75" SHALL BE INCREASED TO 4 x 4 OR BE PRE-ASSEMBLED (2) PLY 2 x 4's FASTENED TOGETHER WITH 2 ROWS OF 10d (0.131" X 3") NAILS 6" O.C..

MiTek

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

RE: 1567-A - McDow

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

Site Information:
Customer Info: JBC Builders Project Name: McDow Model: .
Lot/Block: . Subdivision: .
Address: 1640 SW Salem Rd, .
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: 150 mph
Roof Load: 40.0 psf
Floor Load: N/A psf

This package includes 43 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	T34762445	BJ1	8/19/24	23	T34762467	H14	8/19/24
2	T34762446	BJ3	8/19/24	24	T34762468	H15	8/19/24
3	T34762447	BJ5	8/19/24	25	T34762469	H16	8/19/24
4	T34762448	CJ4	8/19/24	26	T34762470	H17	8/19/24
5	T34762449	CJ9	8/19/24	27	T34762471	HGR38	8/19/24
6	T34762450	EJ3	8/19/24	28	T34762472	HGR38A	8/19/24
7	T34762451	EJ7	8/19/24	29	T34762473	HGR49	8/19/24
8	T34762452	EJ7A	8/19/24	30	T34762474	T1	8/19/24
9	T34762453	GR1	8/19/24	31	T34762475	T2	8/19/24
10	T34762454	H1	8/19/24	32	T34762476	T3	8/19/24
11	T34762455	H2	8/19/24	33	T34762477	T4	8/19/24
12	T34762456	H3	8/19/24	34	T34762478	T5	8/19/24
13	T34762457	H4	8/19/24	35	T34762479	T6	8/19/24
14	T34762458	H5	8/19/24	36	T34762480	V1	8/19/24
15	T34762459	H6	8/19/24	37	T34762481	V2	8/19/24
16	T34762460	H7	8/19/24	38	T34762482	V3	8/19/24
17	T34762461	H8	8/19/24	39	T34762483	V4	8/19/24
18	T34762462	H9	8/19/24	40	T34762484	V5	8/19/24
19	T34762463	H10	8/19/24	41	T34762485	V6	8/19/24
20	T34762464	H11	8/19/24	42	T34762486	V7	8/19/24
21	T34762465	H12	8/19/24	43	T34762487	V8	8/19/24
22	T34762466	H13	8/19/24				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by 19 Lumber, Inc..

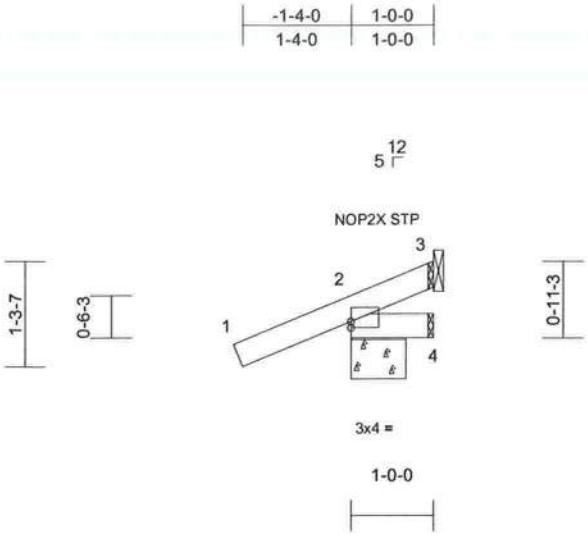
Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2025.

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

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

August 19,2024

Job	Truss	Truss Type	Qty	Ply	McDow	
1567-A	BJ1	Corner Jack	10	1	Job Reference (optional)	T34762445



Scale = 1:27.1

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

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	0.27	Vert(LL)	0.00	4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 5 lb	FT = 20%

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

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

REACTIONS (size) 2=0-8-0, 3= Mechanical
Max Horiz 2=63 (LC 12)
Max Uplift 2=-158 (LC 8), 3=-19 (LC 1)
Max Grav 2=182 (LC 1), 3=41 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-345/114
BOT CHORD 2-4=-42/46

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone 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
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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: , Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 2 and 19 lb uplift at joint 3.

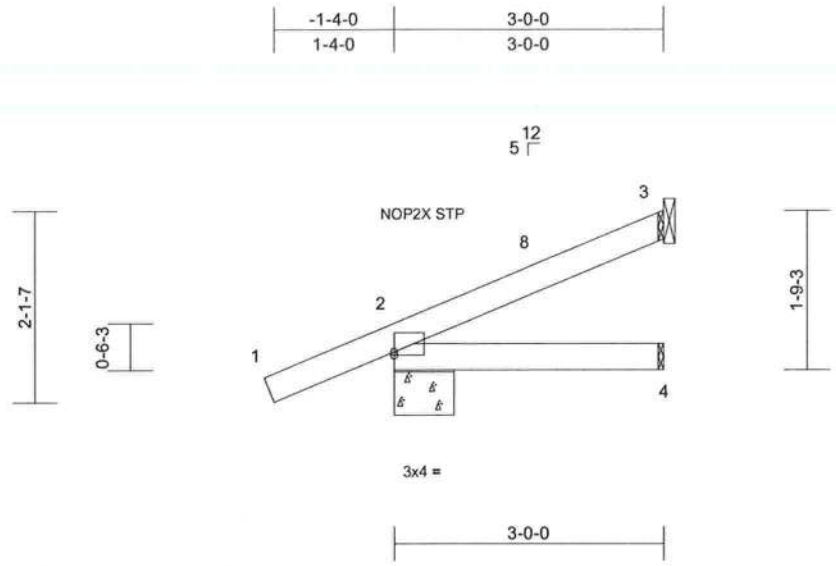
LOAD CASE(S) Standard

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

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762446
1567-A	BJ3	Corner Jack	6	1	Job Reference (optional)	



Scale = 1:24.6

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

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	0.34	Vert(LL)	-0.09	4	>383	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.19	4	>188	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

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

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

REACTIONS (size) 2=0-8-0, 3= Mechanical
Max Horiz 2=119 (LC 12)
Max Uplift 2=-136 (LC 8), 3=-79 (LC 12)
Max Grav 2=221 (LC 1), 3=99 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-401/55
BOT CHORD 2-4=-167/0

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-11 to 1-7-5, Zone1 1-7-5 to 2-11-4 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: , Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 3 and 136 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:

August 19,2024

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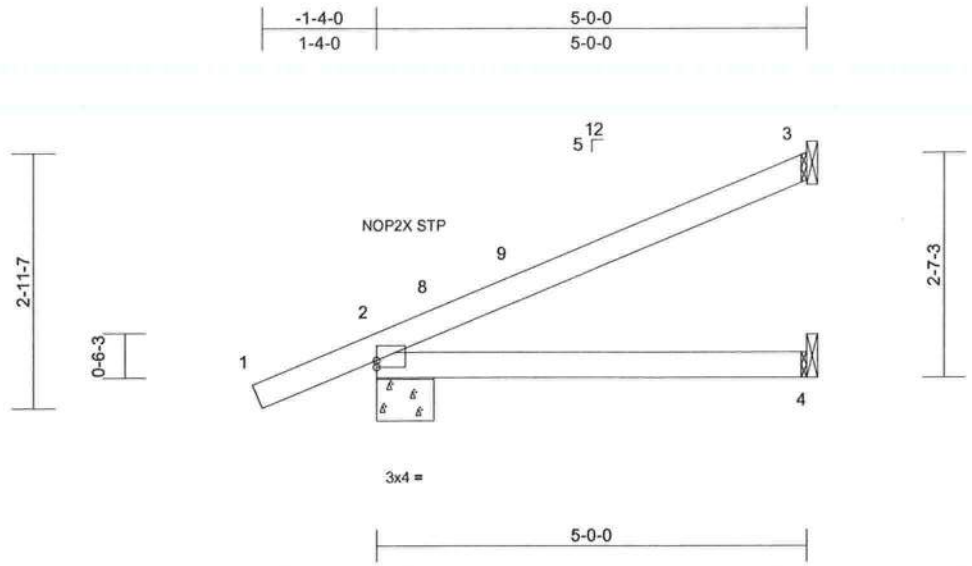
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	McDow	T34762447
1567-A	BJ5	Corner Jack	6	1	Job Reference (optional)	



Scale = 1:25.7

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

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)	0.06	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.06	4-7	>945	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

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

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

REACTIONS (size) 2=0-8-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=177 (LC 12)
Max Uplift 2=-165 (LC 12), 3=-146 (LC 12), 4=-2 (LC 12)
Max Grav 2=293 (LC 1), 3=128 (LC 1), 4=91 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-500/196
BOT CHORD 2-4=-308/171

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-11 to 1-7-5, Zone1 1-7-5 to 4-11-4 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: , Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 3, 165 lb uplift at joint 2 and 2 lb uplift at joint 4.

LOAD CASE(S) Standard

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

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762448
1567-A	CJ4	Diagonal Hip Girder	2	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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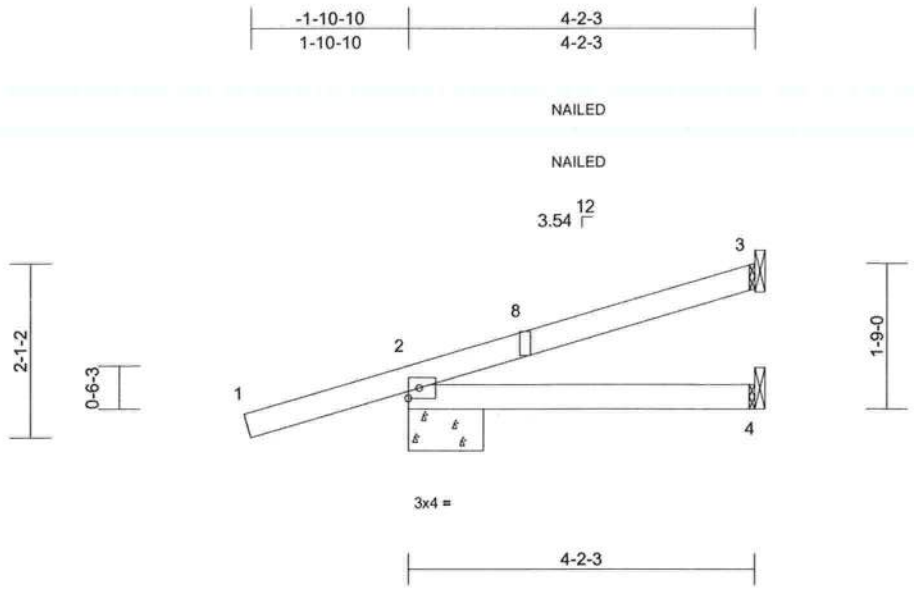

Scale = 1:26.6

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)	-0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-10-15, 3= Mechanical, 4= Mechanical
Max Horiz 2=137 (LC 4)
Max Uplift 2=-130 (LC 4), 3=-49 (LC 8)
Max Grav 2=307 (LC 1), 3=98 (LC 1), 4=74 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-316/220
BOT CHORD 2-4=-139/187

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; 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 49 lb uplift at joint 3 and 130 lb uplift at joint 2.
8) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") 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: 1-3=-60, 4-5=-20

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Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762449
1567-A	CJ9	Diagonal Hip Girder	3	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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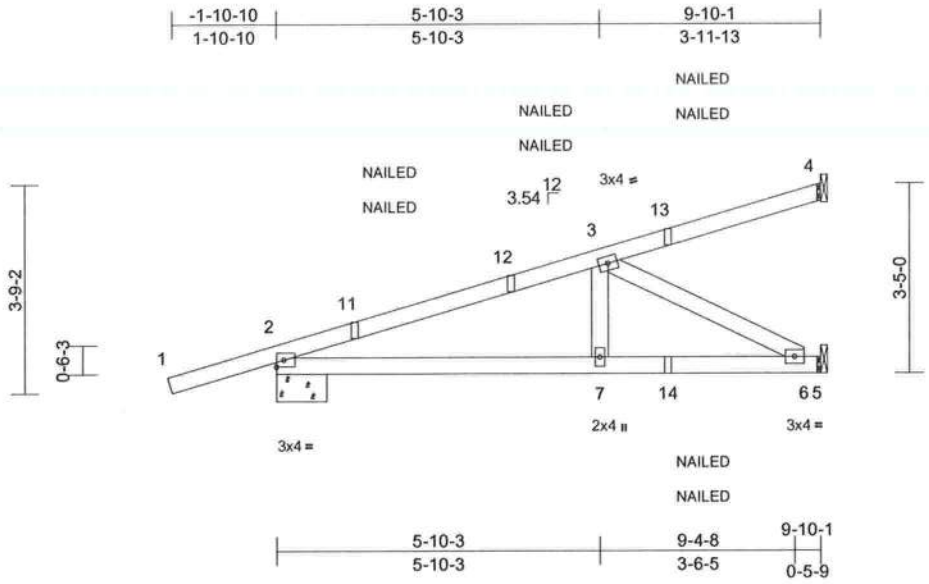

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.05	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-14 oc bracing.

REACTIONS (size) 2=0-10-15, 4= Mechanical, 5= Mechanical
Max Horiz 2=252 (LC 25)
Max Uplift 2=-222 (LC 4), 4=-139 (LC 4), 5=-204 (LC 8)
Max Grav 2=587 (LC 1), 4=101 (LC 1), 5=405 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-819/340, 3-4=-76/61
BOT CHORD 2-7=-406/736, 6-7=-406/736, 5-6=0/0
WEBS 3-6=-832/458, 3-7=0/305

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; 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 139 lb uplift at joint 4, 222 lb uplift at joint 2 and 204 lb uplift at joint 5.
8) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") 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: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 12=-50 (F=-25, B=-25), 13=-86 (F=-43, B=-43), 14=-59 (F=-30, B=-30)

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Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762450
1567-A	EJ3	Jack-Open	18	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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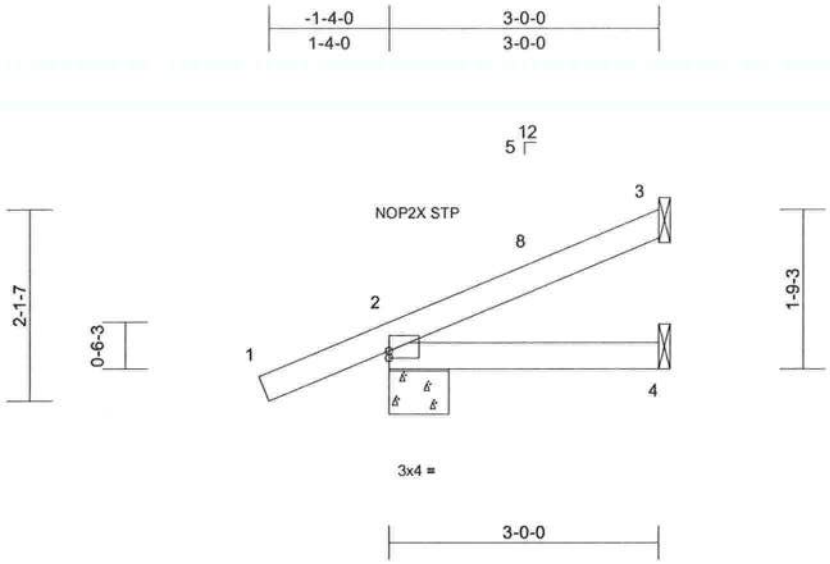

Scale = 1:24.6

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

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	0.27	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

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

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

REACTIONS (size) 2=0-8-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=119 (LC 12)
Max Uplift 2=-136 (LC 8), 3=-82 (LC 12)
Max Grav 2=221 (LC 1), 3=69 (LC 1), 4=52 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-366/132
BOT CHORD 2-4=-76/78

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-11 to 1-7-5, Zone1 1-7-5 to 2-11-4 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: , Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 3 and 136 lb uplift at joint 2.

LOAD CASE(S) Standard

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Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762451
1567-A	EJ7	Jack-Open	24	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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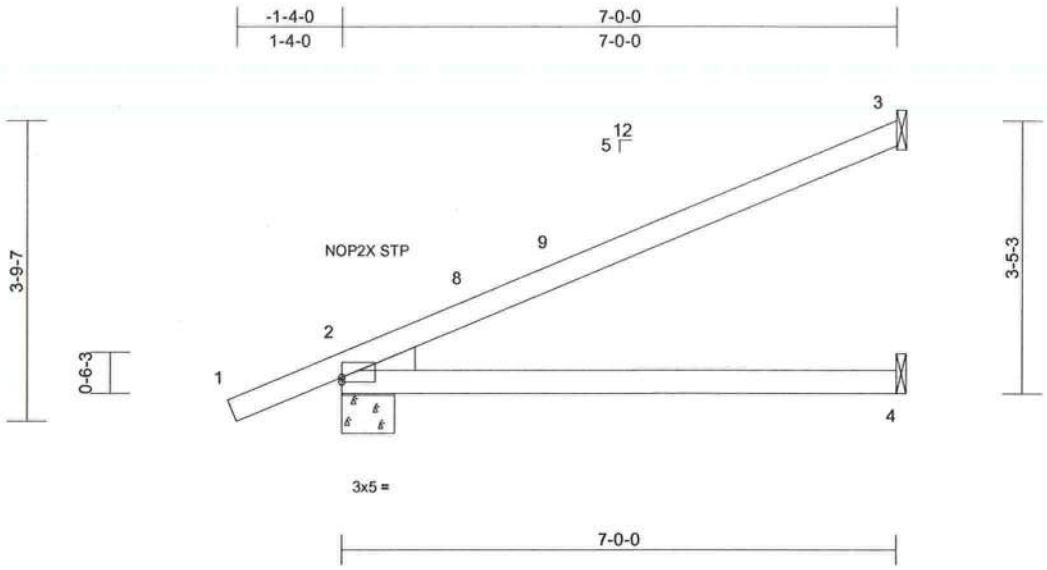

Scale = 1:27.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.16	4-7	>532	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.21	4-7	>397	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

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

REACTIONS (size) 2=0-8-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=235 (LC 12)
Max Uplift 2=-199 (LC 12), 3=-213 (LC 12)
Max Grav 2=369 (LC 1), 3=190 (LC 1), 4=124 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-578/201
BOT CHORD 2-4=-442/222

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-11 to 1-7-5, Zone1 1-7-5 to 6-11-4 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: , Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 3 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

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Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762452
1567-A	EJ7A	Jack-Open	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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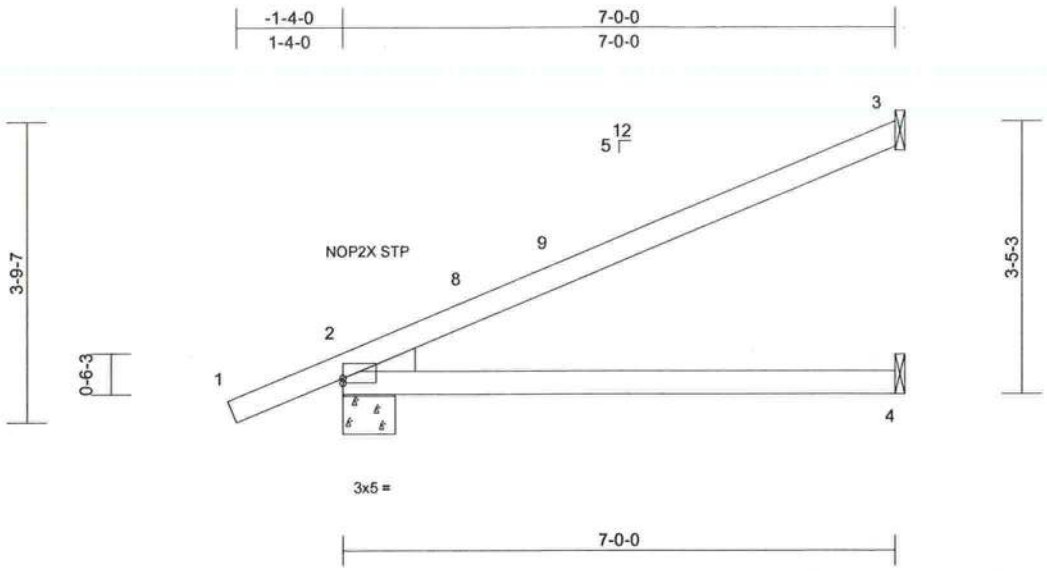

Scale = 1:27.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.16	4-7	>532	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.21	4-7	>397	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

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

REACTIONS (size) 2=0-8-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=235 (LC 12)
Max Uplift 2=-199 (LC 12), 3=-213 (LC 12)
Max Grav 2=369 (LC 1), 3=190 (LC 1), 4=124 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-578/201
BOT CHORD 2-4=-442/222

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-11 to 1-7-5, Zone1 1-7-5 to 6-11-4 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: , Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 3 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

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August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	
1567-A	GR1	Half Hip Girder	2	1	Job Reference (optional)	T34762453

19 Lumber, Inc., Old Town, FL - 32680,

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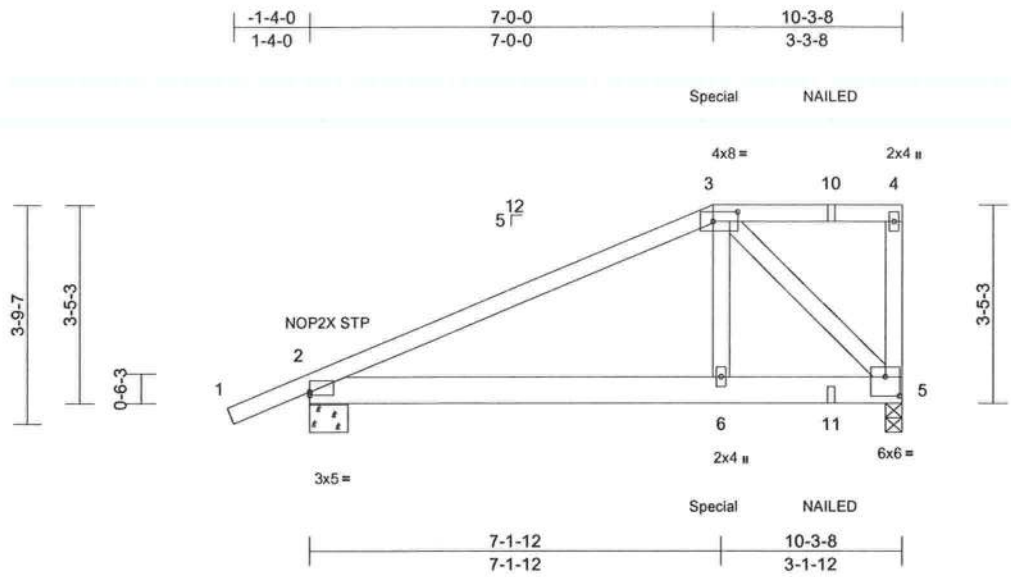

Scale = 1:38.4

Plate Offsets (X, Y): [2:Edge,0-0-11], [3:0-5-4,0-2-0], [5:0-3-0,0-4-0]

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	0.55	Vert(LL)	0.06	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 56 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-9 oc bracing.

REACTIONS (size) 2=0-8-0, 5=0-3-8
Max Horiz 2=245 (LC 7)
Max Uplift 2=-444 (LC 8), 5=-643 (LC 5)
Max Grav 2=689 (LC 1), 5=977 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-936/569, 3-4=-72/70, 4-5=-159/184
BOT CHORD 2-6=-547/791, 5-6=-554/821
WEBS 3-6=-196/725, 3-5=-1120/762

NOTES
1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; 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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
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 643 lb uplift at joint 5 and 444 lb uplift at joint 2.
9) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 322 lb up at 7-0-0 on top chord, and 436 lb down and 195 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-146 (F), 6=-436 (F), 10=-130 (F), 11=-59 (F)

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

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762454
1567-A	H1	Hip	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:45 Page: 1
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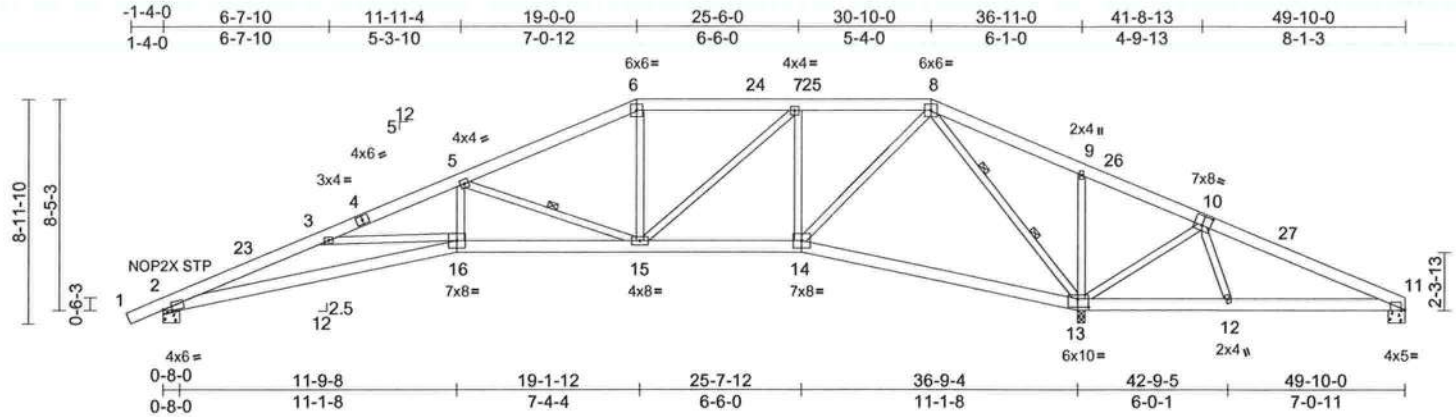

Scale = 1:88.6

Plate Offsets (X, Y): [2:0-4-3,Edge], [10:0-4-0,0-4-8], [11:0-1-13,Edge], [13:0-5-4,0-4-0]

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	0.56	Vert(LL)	0.36	16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.47	16-22	>945	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 341 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-5 oc bracing.
WEBS 1 Row at midpt 5-15
WEBS 2 Rows at 1/3 pts 8-13

REACTIONS (size) 2=0-8-0, 11=0-8-0, 13=0-3-8, (req. 0-3-12)
Max Horiz 2=273 (LC 16)
Max Uplift 2=-671 (LC 12), 11=-563 (LC 25), 13=-1377 (LC 8)
Max Grav 2=1246 (LC 25), 11=305 (LC 12), 13=3184 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3996/2211, 3-5=-3429/1723, 5-6=-1554/823, 6-7=-1358/837, 7-8=-680/532, 8-9=-940/2269, 9-11=-1032/2248
BOT CHORD 2-16=-2201/3719, 15-16=-1556/3082, 14-15=-173/698, 13-14=-459/469, 12-13=-1652/910, 11-12=-1602/914
WEBS 3-16=-495/567, 5-16=-387/942, 5-15=-1845/1243, 6-15=0/292, 7-15=-613/921, 7-14=-1008/630, 8-14=-644/1502, 8-13=-2800/1288, 9-13=-336/391, 10-13=-649/533, 10-12=-16/295

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-12, Zone1 3-6-12 to 19-0-0, Zone2 19-0-0 to 26-0-9, Zone1 26-0-9 to 30-10-0, Zone2 30-10-0 to 37-10-9, Zone1 37-10-9 to 49-10-0 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 MT20 plates 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) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1377 lb uplift at joint 13, 563 lb uplift at joint 11 and 671 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:

August 19,2024

Job	Truss	Truss Type	Qty	Ply	McDow T34762455
1567-A	H2	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:45 Page: 1
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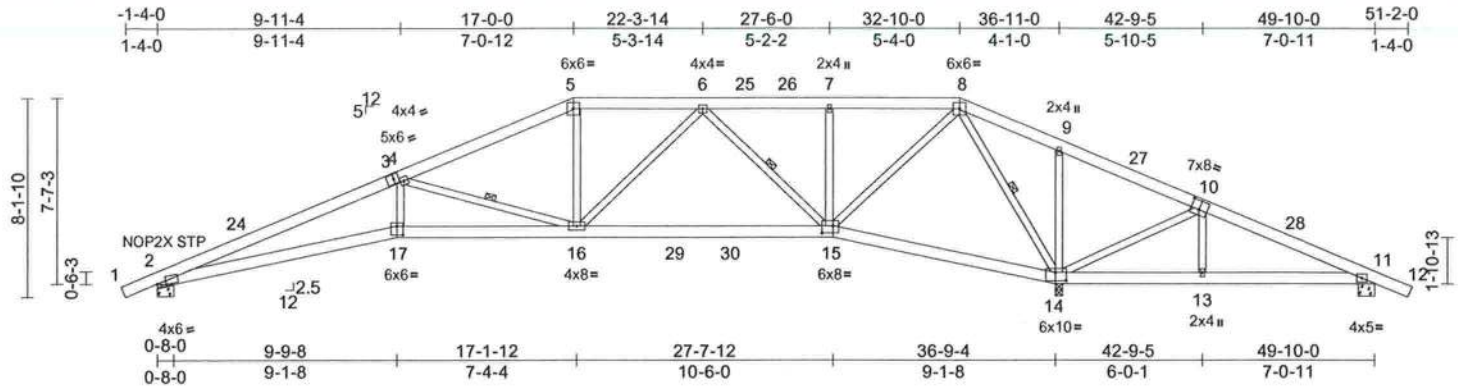

Scale = 1:90.5

Plate Offsets (X, Y): [2:0-4-3,Edge], [3:0-2-7,0-2-8], [10:0-4-0,0-4-8], [14:0-5-4,0-4-0], [15:0-5-4,0-3-8], [17:0-3-0,0-4-4]

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)	0.31	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.46	17-23	>960	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.20	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 339 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-3-1 oc bracing.
WEBS 1 Row at midpt 4-16, 6-15, 8-14

REACTIONS (size) 2=0-8-0, 11=0-8-0, 14=0-3-8, (req. 0-4-1)
Max Horiz 2=231 (LC 12)
Max Uplift 2=-660 (LC 12), 11=-571 (LC 25), 14=-1469 (LC 8)
Max Grav 2=1307 (LC 27), 11=233 (LC 12), 14=3461 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-4=-4046/1897, 4-5=-1941/920, 5-6=-1733/905, 6-7=-407/411, 7-8=-399/402, 8-9=-868/2498, 9-11=-970/2513, 11-12=0/33
BOT CHORD 2-17=-1826/3782, 16-17=-1753/3616, 15-16=-457/1176, 14-15=-1007/647, 13-14=-1740/818, 11-13=-1735/818
WEBS 4-17=-325/995, 4-16=-1987/1343, 5-16=-77/426, 6-16=-393/803, 6-15=-1179/603, 7-15=-347/335, 8-15=-767/1783, 8-14=-2744/1228, 9-14=-312/362, 10-14=-773/550, 10-13=0/290

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-12, Zone1 3-6-12 to 17-0-0, Zone2 17-0-0 to 24-0-9, Zone1 24-0-9 to 32-10-0, Zone2 32-10-0 to 39-10-9, Zone1 39-10-9 to 51-3-1 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 MT20 plates 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, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1469 lb uplift at joint 14, 571 lb uplift at joint 11 and 660 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762456
1567-A	H3	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:45 Page: 1
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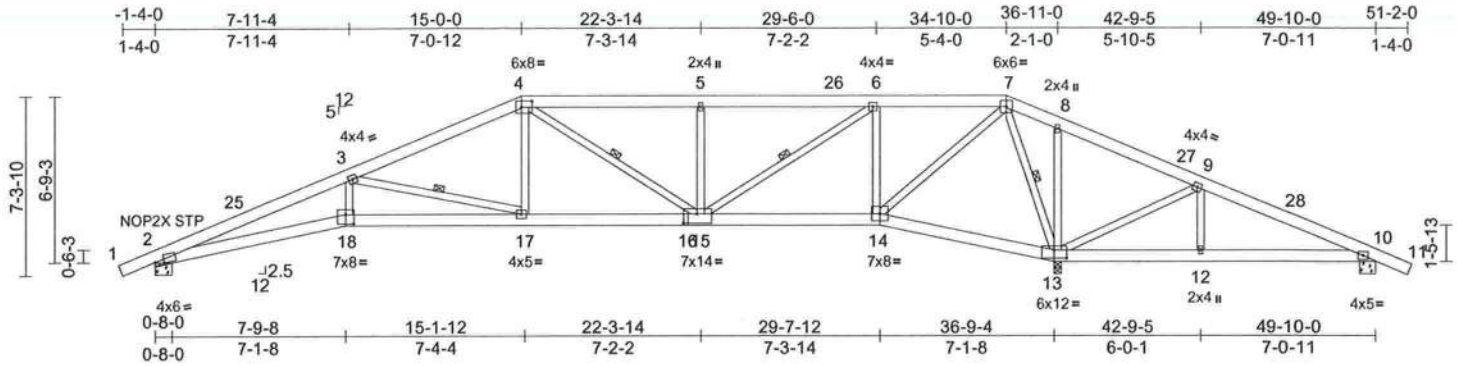

Scale = 1:90.4

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

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	0.55	Vert(LL)	0.31	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.44	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.17	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 343 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-4-12 oc bracing.
WEBS 1 Row at midpt 3-17, 4-15, 6-15, 7-13

REACTIONS (size) 2=0-8-0, 10=0-8-0, 13=0-3-8, (req. 0-3-13)
Max Horiz 2=-206 (LC 13)
Max Uplift 2=-641 (LC 12), 10=-577 (LC 25), 13=-1558 (LC 8)
Max Grav 2=1247 (LC 25), 10=224 (LC 8), 13=3222 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4010/1925, 3-4=-2005/1053, 4-5=-1300/895, 5-6=-1300/895, 6-7=-108/272, 7-8=-931/2292, 8-9=-1027/2356, 9-10=-855/1861, 10-11=0/33
BOT CHORD 2-18=-1853/3713, 17-18=-1783/3563, 15-17=-729/1797, 14-15=-226/355, 13-14=-1503/897, 12-13=-1686/869, 10-12=-1686/869
WEBS 3-18=-308/849, 3-17=-1843/1254, 4-17=-249/660, 4-15=-619/445, 5-15=-466/459, 6-15=-840/1668, 6-14=-1343/868, 7-14=-925/1739, 7-13=-2274/1165, 8-13=-299/320, 9-13=-737/554, 9-12=0/300

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-12, Zone1 3-6-12 to 15-0-0, Zone2 15-0-0 to 22-3-14, Zone1 22-3-14 to 34-10-0, Zone2 34-10-0 to 41-10-9, Zone1 41-10-9 to 51-3-1 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 MT20 plates 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) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1558 lb uplift at joint 13, 577 lb uplift at joint 10 and 641 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762457
1567-A	H4	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

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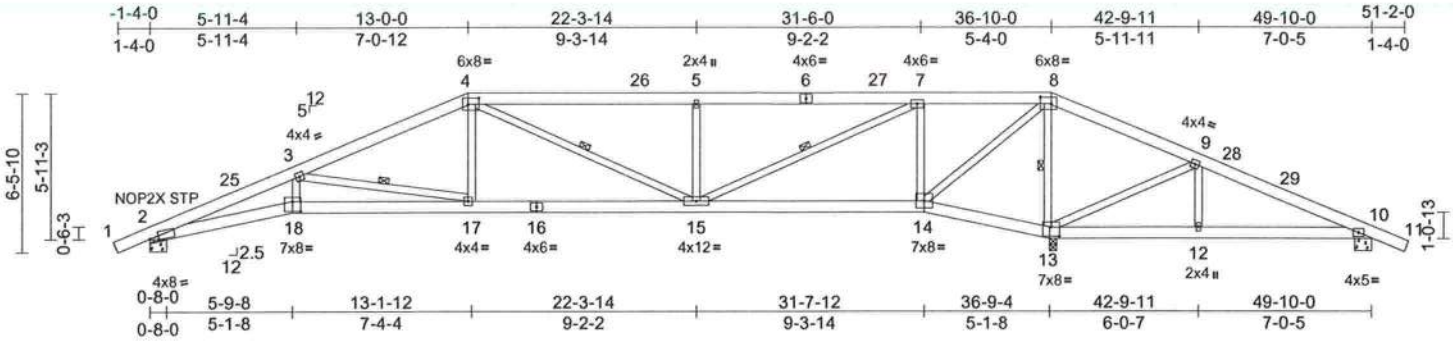

Scale = 1:90.3

Plate Offsets (X, Y): [2:0-4-3,Edge], [4:0-5-4,0-3-0], [8:0-5-4,0-3-4], [13:0-4-0,0-4-8], [18:0-4-0,0-4-12]

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	0.57	Vert(LL)	0.30	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.43	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.15	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 335 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-11 oc bracing.
WEBS 1 Row at midpt 3-17, 4-15, 7-15, 8-13

REACTIONS (size) 2=0-8-0, 10=0-8-0, 13=0-3-8, (req. 0-3-11)
Max Horiz 2=181 (LC 16)
Max Uplift 2=-639 (LC 8), 10=-518 (LC 25), 13=-1606 (LC 8)
Max Grav 2=1270 (LC 25), 10=215 (LC 8), 13=3132 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4167/1993, 3-4=-2240/1190, 4-5=-1596/1072, 5-7=-1596/1072, 7-8=-224/599, 8-9=-1007/2202, 9-10=-826/1701, 10-11=0/33
BOT CHORD 2-18=-1871/3863, 17-18=-1804/3704, 15-17=-899/2038, 14-15=-550/455, 13-14=-2059/1186, 12-13=-1537/840, 10-12=-1537/840
WEBS 3-18=-288/809, 3-17=-1717/1170, 4-17=-162/616, 4-15=-517/407, 5-15=-604/598, 7-15=-1232/2311, 7-14=-1472/996, 8-14=-1063/1864, 8-13=-2278/1269, 9-13=-777/578, 9-12=0/304

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-12, Zone1 3-6-12 to 13-0-0, Zone2 13-0-0 to 20-0-9, Zone1 20-0-9 to 36-10-0, Zone2 36-10-0 to 43-10-9, Zone1 43-10-9 to 51-3-1 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 MT20 plates 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) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 10, 1606 lb uplift at joint 13 and 639 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762458
1567-A	H5	Hip	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680.

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:45 Page: 1
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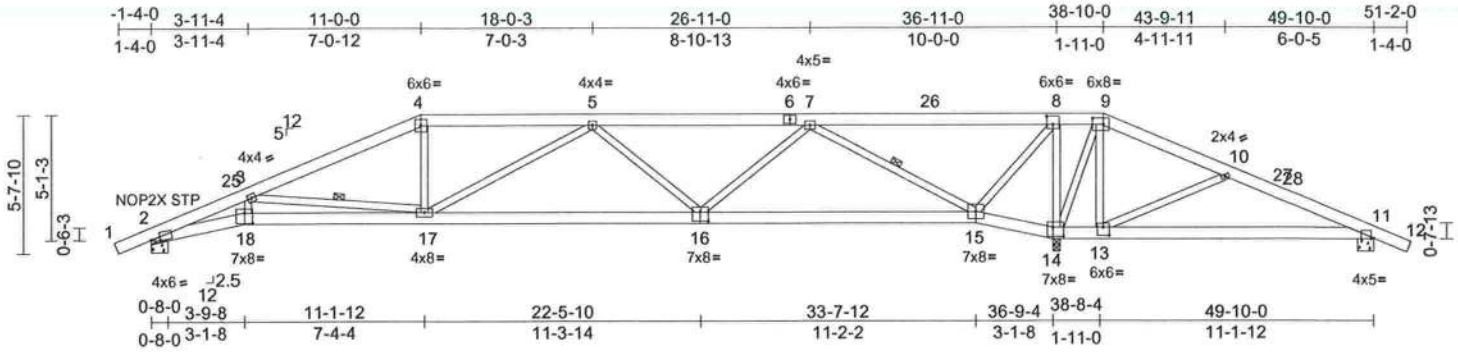

Scale = 1:90.2

Plate Offsets (X, Y): [2:0-4-3,Edge], [8:0-3-0,0-4-0], [9:0-5-4,0-3-0], [11:0-1-5,Edge], [13:0-3-0,0-4-0], [14:0-5-4,0-4-8], [16:0-4-0,0-4-8], [18:0-4-0,0-5-0]

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	0.74	Vert(LL)	0.26	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.35	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.14	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 336 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-13 oc bracing.
WEBS 1 Row at midpt 3-17, 7-15

REACTIONS (size) 2=0-8-0, 11=0-8-0, 14=0-3-8, (req. 0-3-11)
Max Horiz 2=-156 (LC 13)
Max Uplift 2=-658 (LC 8), 11=-499 (LC 25), 14=-1693 (LC 8)
Max Grav 2=1275 (LC 25), 11=235 (LC 8), 14=3107 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4038/1958, 3-4=-2349/1233, 4-5=-2154/1215, 5-7=-1621/981, 7-8=-688/1443, 8-9=-1036/2196, 9-10=-1025/1905, 10-11=-818/1675, 11-12=0/33
BOT CHORD 2-18=-1758/3733, 17-18=-1708/3582, 15-17=-1157/2149, 14-15=-2299/1339, 13-14=-1735/1126, 11-13=-1500/825
WEBS 3-18=-214/678, 3-17=-1475/1047, 4-17=-134/499, 5-17=-192/244, 5-16=-727/558, 7-16=-367/1082, 7-15=-2556/1617, 8-15=-601/1279, 8-14=-1612/1039, 9-14=-1184/439, 9-13=-108/561, 10-13=-567/519

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-12, Zone1 3-6-12 to 11-0-0, Zone2 11-0-0 to 18-0-3, Zone1 18-0-3 to 38-10-0, Zone2 38-10-0 to 45-10-9, Zone1 45-10-9 to 51-3-1 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 MT20 plates 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) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1693 lb uplift at joint 14, 499 lb uplift at joint 11 and 658 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762459
1567-A	H6	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:45 Page: 1
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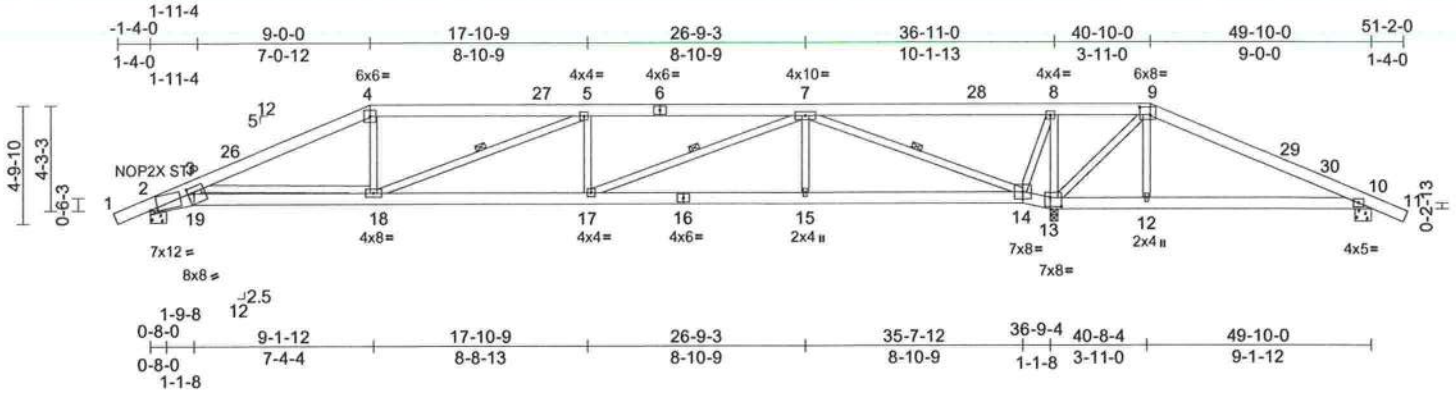

Scale = 1:90.1

Plate Offsets (X, Y): [2:0-3-11,0-1-0], [9:0-5-4,0-3-12], [13:0-5-4,0-4-8], [19:0-2-12,0-3-4]

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	0.71	Vert(LL)	0.30	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.37	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.11	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 332 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 14-7:2x4 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-6 oc bracing.
WEBS 1 Row at midpt 5-18, 7-17, 7-14

REACTIONS (size) 2=0-8-0, 10=0-8-0, 13=0-3-8
Max Horiz 2=-131 (LC 13)
Max Uplift 2=-714 (LC 8), 10=-329 (LC 25), 13=-1634 (LC 8)
Max Grav 2=1328 (LC 25), 10=146 (LC 8), 13=2872 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3290/1587, 3-4=-2541/1382, 4-5=-2345/1358, 5-7=-2738/1716, 7-8=-935/1807, 8-9=-1045/2087, 9-10=-737/1354, 10-11=0/33
BOT CHORD 2-19=-1438/3031, 18-19=-1531/3057, 17-18=-1521/2738, 15-17=-794/1437, 14-15=-794/1437, 13-14=-2191/1315, 12-13=-1208/785, 10-12=-1215/784
WEBS 3-19=0/340, 3-18=-760/729, 4-18=-129/530, 5-18=-597/413, 5-17=-374/390, 7-17=-784/1408, 7-15=0/383, 7-14=-3477/2073, 8-14=-432/1003, 8-13=-1470/909, 9-13=-1425/655, 9-12=-18/344

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-12, Zone1 3-6-12 to 9-0-0, Zone2 9-0-0 to 16-0-9, Zone1 16-0-9 to 40-10-0, Zone2 40-10-0 to 47-10-9, Zone1 47-10-9 to 51-3-1 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 MT20 plates 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1634 lb uplift at joint 13, 329 lb uplift at joint 10 and 714 lb uplift at joint 2.

LOAD CASE(S) Standard

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762460
1567-A	H7	Hip	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:46 Page: 1
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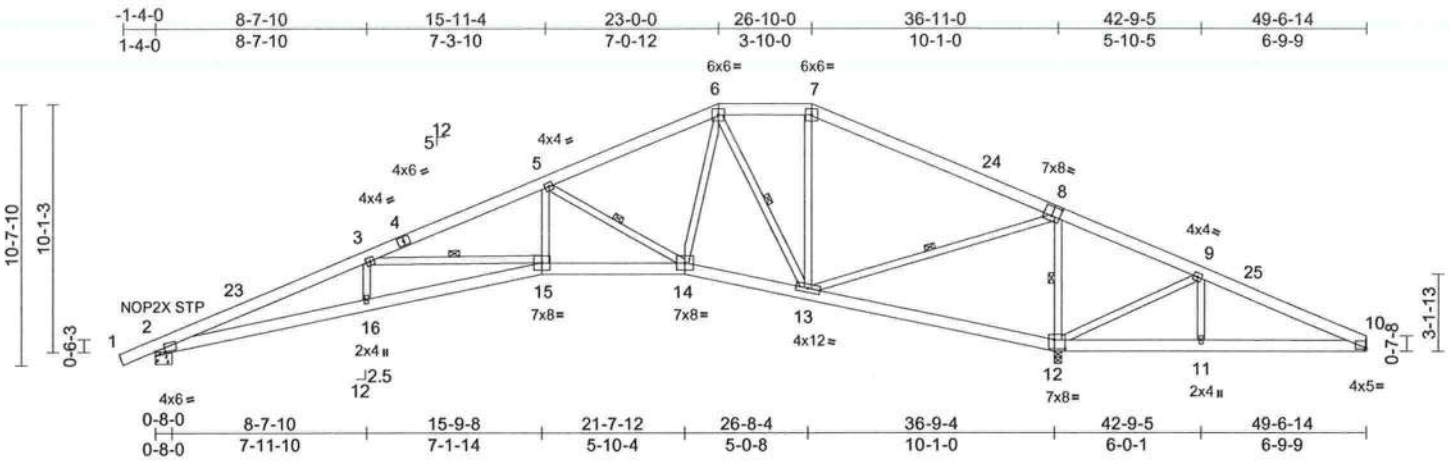

Scale = 1:90.4

Plate Offsets (X, Y): [2:0-4-7,0-1-2], [8:0-4-0,0-4-8], [10:0-0-4,0-0-9], [12:0-5-4,0-4-8]

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	0.75	Vert(LL)	0.39	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.49	15-16	>906	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.22	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 341 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-7 oc bracing.
WEBS 1 Row at midpt 3-15, 5-14, 6-13, 8-13, 8-12

REACTIONS (size) 2=0-8-0, 10= Mechanical, 12=0-3-8, (req. 0-3-12)
Max Horiz 2=327 (LC 12)
Max Uplift 2=-695 (LC 12), 10=-575 (LC 26), 12=-1385 (LC 12)
Max Grav 2=1242 (LC 1), 10=358 (LC 12), 12=3204 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3940/2206, 3-5=-2737/1455, 5-6=-1216/702, 6-7=-401/445, 7-9=-1127/2265, 9-10=-996/1692
BOT CHORD 2-16=-2229/3647, 15-16=-2230/3653, 14-15=-1253/2417, 13-14=-161/828, 12-13=-2060/1211, 11-12=-1525/965, 10-11=-1525/965
WEBS 3-16=0/289, 3-15=-1118/904, 5-15=-457/962, 5-14=-1625/1151, 6-14=-612/1120, 6-13=-1084/662, 7-13=-273/260, 8-13=-1093/2485, 8-12=-2332/1198, 9-12=-699/459, 9-11=0/295

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 23-0-0, Zone3 23-0-0 to 26-10-0, Zone2 26-10-0 to 33-10-2, Zone1 33-10-2 to 49-6-14 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
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 MT20 plates 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) WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
9) Bearings are assumed to be: Joint 2 SP No.2 , Joint 12 SP No.2 .
10) Refer to girder(s) for truss to truss connections.
11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1385 lb uplift at joint 12, 575 lb uplift at joint 10 and 695 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762461
1567-A	H8	Hip	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:46 Page: 1
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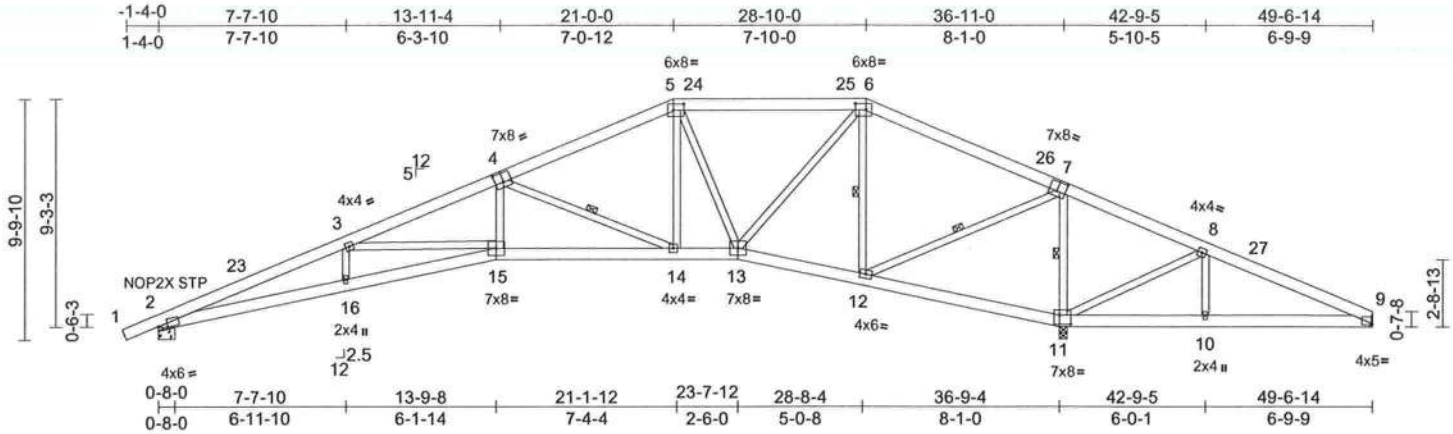

Scale = 1:90.3

Plate Offsets (X, Y): [2:0-4-3,Edge], [4:0-4-0,0-4-8], [5:0-5-4,0-3-0], [6:0-5-4,0-3-0], [7:0-4-0,0-4-8], [9:0-0-4,0-0-9], [11:0-5-4,0-4-8]

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	0.61	Vert(LL)	0.38	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.47	15-16	>931	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.21	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 343 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-8 oc bracing.
WEBS 1 Row at midpt 4-14, 6-12, 7-12, 7-11

REACTIONS (size) 2=0-8-0, 9= Mechanical, 11=0-3-8, (req. 0-3-13)
Max Horiz 2=302 (LC 12)
Max Uplift 2=-683 (LC 12), 9=-600 (LC 25), 11=-1321 (LC 12)
Max Grav 2=1238 (LC 1), 9=342 (LC 12), 11=3220 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3964/2170, 3-5=-3039/1597, 5-6=-757/581, 6-8=-1096/2320, 8-9=-952/1746
BOT CHORD 2-16=-2180/3670, 15-16=-2183/3681, 14-15=-1397/2699, 13-14=-284/1112, 12-13=-121/320, 11-12=-2122/1188, 10-11=-1574/923, 9-10=-1574/923
WEBS 3-16=0/224, 3-15=-836/705, 4-15=-448/964, 4-14=-1755/1226, 5-14=-418/834, 5-13=-911/553, 6-13=-577/1131, 6-12=-1285/679, 7-12=-972/2342, 7-11=-2331/1198, 8-11=-758/509, 8-10=0/307

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 21-0-0, Zone2 21-0-0 to 28-0-2, Zone1 28-0-2 to 28-10-0, Zone2 28-10-0 to 35-10-2, Zone1 35-10-2 to 49-6-14 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
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 MT20 plates 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) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
9) Bearings are assumed to be: Joint 2 SP No.2 , Joint 11 SP No.2 .
10) Refer to girder(s) for truss to truss connections.
11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1321 lb uplift at joint 11, 600 lb uplift at joint 9 and 683 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762462
1567-A	H9	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680.

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:46 Page: 1
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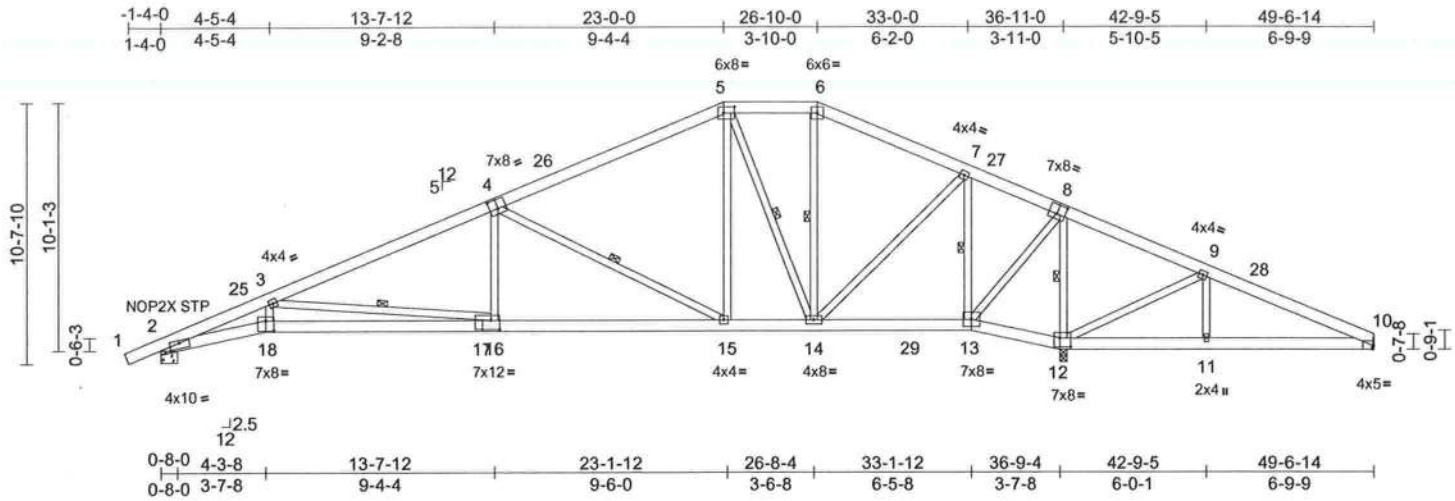

Scale = 1:90.4

Plate Offsets (X, Y): [2:0-5-0,0-2-12], [4:0-4-0,0-4-8], [5:0-5-4,0-3-0], [8:0-4-0,0-4-8], [10:0-0-8,Edge], [12:0-5-4,0-4-8], [17:0-4-4,0-4-8], [18:0-4-0,0-5-0]

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)	0.38	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.53	16-18	>832	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.17	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 370 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-16, 4-15, 5-14, 6-14, 7-13, 8-12

REACTIONS (size) 2=0-8-0, 10= Mechanical, 12=0-3-8, (req. 0-3-11)
Max Horiz 2=327 (LC 12)
Max Uplift 2=-734 (LC 12), 10=-346 (LC 26), 12=-1234 (LC 12)
Max Grav 2=1391 (LC 2), 10=246 (LC 12), 12=3103 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4660/2520, 3-5=-2421/1182, 5-6=-572/537, 6-7=-683/509, 7-9=-864/1820, 9-10=-716/1156
BOT CHORD 2-18=-2574/4327, 16-18=-2494/4127, 15-16=-1125/2187, 14-15=-216/934, 13-14=-467/469, 12-13=-1670/973, 11-12=-1029/705, 10-11=-1029/705
WEBS 3-18=-351/944, 3-16=-1947/1379, 4-16=-88/646, 4-15=-1461/1036, 5-15=-401/891, 5-14=-918/574, 6-14=-108/76, 7-14=-656/1404, 7-13=-1677/860, 8-13=-768/1921, 8-12=-2245/1033, 9-12=-828/566, 9-11=0/307

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 23-0-0, Zone3 23-0-0 to 26-10-0, Zone2 26-10-0 to 33-10-2, Zone1 33-10-2 to 49-6-14 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
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 MT20 plates 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, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
9) Bearings are assumed to be: Joint 2 SP No.2 , Joint 12 SP No.2 .
10) Refer to girder(s) for truss to truss connections.
11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1234 lb uplift at joint 12, 346 lb uplift at joint 10 and 734 lb uplift at joint 2.

LOAD CASE(S) Standard

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762463
1567-A	H10	Hip	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:46 Page: 1
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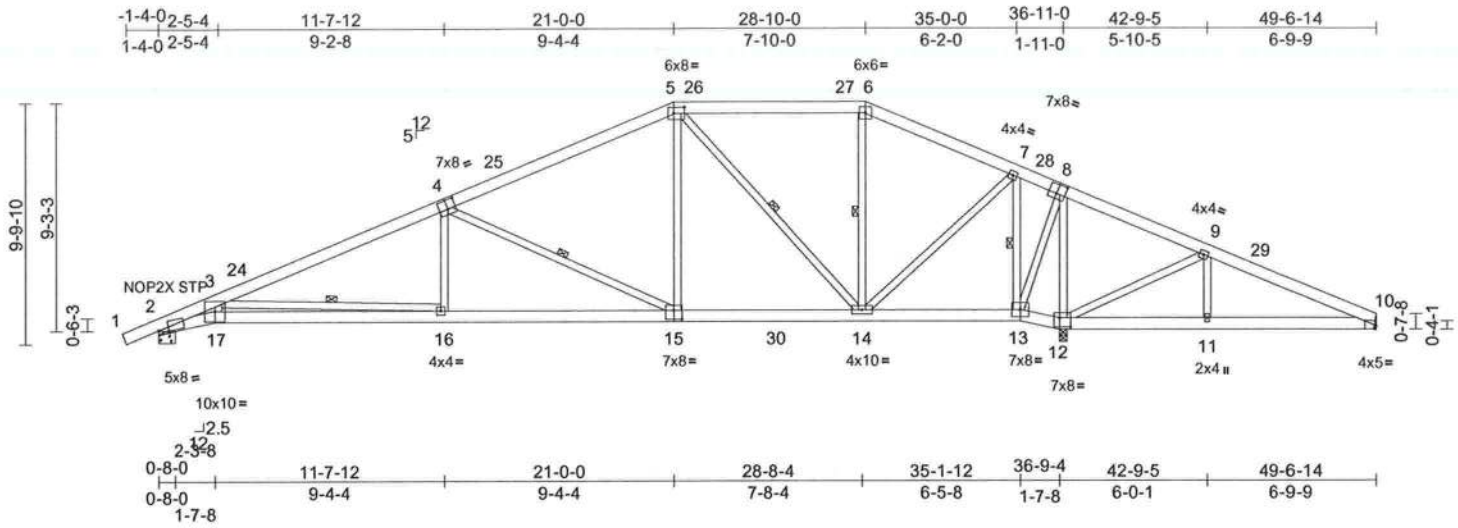

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Plate Offsets (X, Y): [2:0-4-11,0-1-2], [4:0-4-0,0-4-8], [5:0-5-4,0-3-0], [8:0-4-0,0-4-8], [10:0-0-8,Edge], [12:0-5-4,0-4-8], [15:0-4-0,0-4-8]

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	0.60	Vert(LL)	0.30	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.44	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.13	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 367 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-16, 4-15, 5-14, 6-14, 7-13

REACTIONS (size) 2=0-8-0, 10= Mechanical, 12=0-3-8
Max Horiz 2=302 (LC 12)
Max Uplift 2=-757 (LC 12), 10=-171 (LC 26), 12=-1063 (LC 9)
Max Grav 2=1480 (LC 2), 10=200 (LC 27), 12=2835 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4372/2204, 3-5=-2760/1287, 5-6=-632/549, 6-7=-741/517, 7-9=-566/1287, 9-10=-441/713
BOT CHORD 2-17=-2284/4021, 16-17=-2305/3868, 14-16=-1256/2501, 13-14=-595/477, 12-13=-1169/692, 11-12=-626/452, 10-11=-626/452
WEBS 3-17=-28/650, 3-16=-1365/1052, 4-16=-8/508, 4-15=-1317/965, 5-15=-334/915, 5-14=-1046/589, 6-14=-219/186, 7-14=-662/1679, 7-13=-1771/872, 8-13=-700/1646, 8-12=-2059/961, 9-12=-765/548, 9-11=0/291

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 21-0-0, Zone2 21-0-0 to 28-0-2, Zone1 28-0-2 to 28-10-0, Zone2 28-10-0 to 35-10-2, Zone1 35-10-2 to 49-6-14 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
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 MT20 plates 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, with BCDL = 10.0psf.
8) Bearings are assumed to be: Joint 2 SP No.2 , Joint 12 SP No.2 .
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1063 lb uplift at joint 12, 171 lb uplift at joint 10 and 757 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762464
1567-A	H11	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Mon Aug 19 08:04:45 Page: 1
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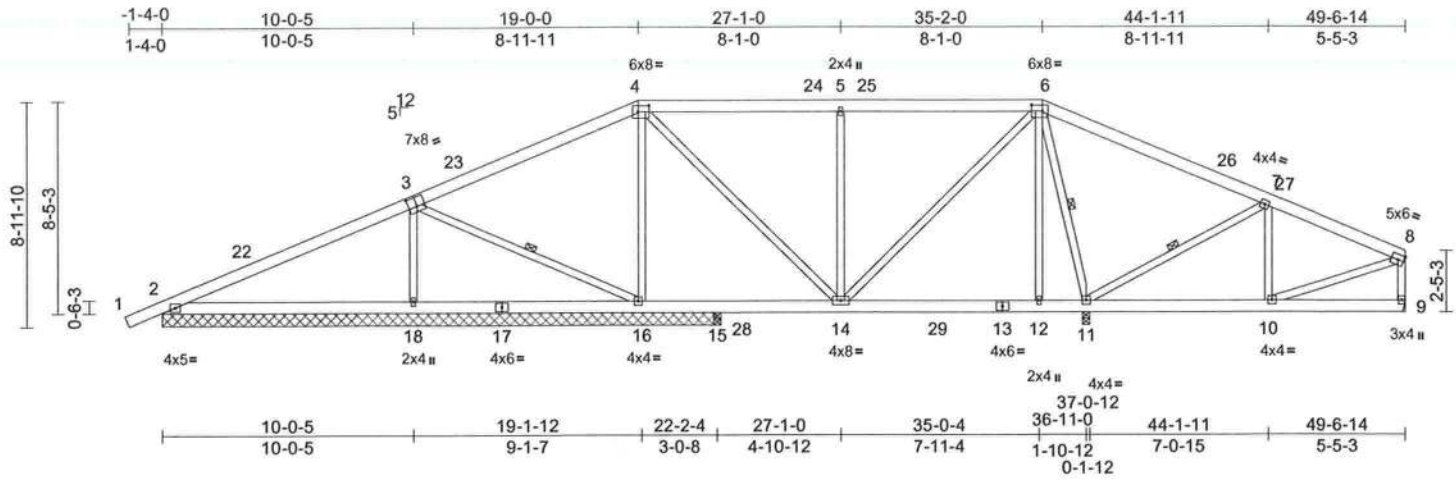

Scale = 1:88.2

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

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)	0.12	18-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.16	18-21	>760	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 367 lb	FT = 20%

LUMBER
TOP CHORD 2x6 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 15-16,14-15.
WEBS 1 Row at midpt 3-16, 6-11, 7-11

REACTIONS All bearings 22-4-0. except 11=0-3-8, 15=0-3-8, 9= Mechanical
(lb) - Max Horiz 2=283 (LC 16), 19=283 (LC 16)
Max Uplift All uplift 100 (lb) or less at joint(s) 15 except 2=-249 (LC 12), 9=-232 (LC 13), 11=-692 (LC 9), 16=-509 (LC 8), 18=-543 (LC 12), 19=-249 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 15 except 2=457 (LC 25), 9=443 (LC 28), 11=1456 (LC 2), 16=1051 (LC 2), 18=877 (LC 27), 19=457 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-24=-419/426, 5-24=-419/426, 5-25=-419/426, 6-25=-419/426, 6-26=-27/267, 7-27=-341/260, 8-27=-423/259, 8-9=-368/244
BOT CHORD 10-11=-221/374
WEBS 3-18=-559/582, 4-16=-803/554, 4-14=-337/579, 5-14=-546/534, 6-14=-298/445, 6-12=0/267, 6-11=-991/540, 7-11=-601/546, 8-10=-206/382

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 49-5-2 to 49-5-2 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 = 10.0psf.
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) 15 except (jt=lb) 2=249, 18=543, 16=508, 11=691, 9=232, 2=249.

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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762465
1567-A	H12	Attic	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 9.09 S 8.73 Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Mon Aug 19 09:23:11 Page: 1
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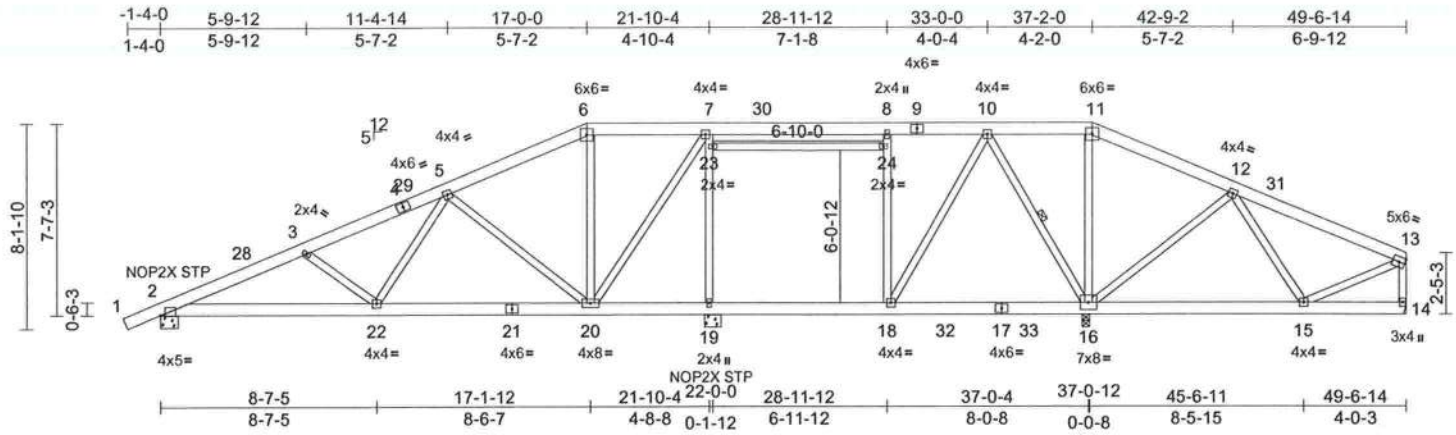

Scale = 1:88.1

Plate Offsets (X, Y): [2:0-1-13,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	0.34	Vert(LL)	-0.07	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.12	20-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.02	19	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.06	18-19	>999	360	Weight: 376 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-16

REACTIONS All bearings 0-8-0. except 16=0-3-8, 14= Mechanical
(lb) - Max Horiz 2=258 (LC 16)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-500 (LC 12), 14=-245 (LC 28), 16=-883 (LC 9), 19=-566 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) 14 except 2=981 (LC 28), 16=2383 (LC 2), 19=1573 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-28=-1716/792, 3-28=-1677/802, 3-4=-1482/615, 4-29=-1404/620, 5-29=-1381/627, 5-6=-541/324, 6-7=-441/344, 10-11=-212/997, 11-12=-287/1111, 12-31=-111/405, 13-31=-135/375, 13-14=-72/272
BOT CHORD 2-22=-868/1569, 21-22=-453/1010, 20-21=-453/1010, 19-20=-187/303, 18-19=-187/303, 18-32=-454/360, 17-32=-454/360, 17-33=-454/360, 16-33=-454/360, 15-16=-596/213
WEBS 3-22=-361/404, 5-22=-198/611, 5-20=-741/606, 7-20=-516/767, 19-23=-1149/627, 7-23=-1078/670, 18-24=-392/297, 8-24=-320/339, 10-18=-206/905, 10-16=-1154/467, 11-16=-620/313, 12-16=-674/486, 12-15=-23/495, 13-15=-396/212

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 49-5-2 to 49-5-2 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 MT20 plates 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, with BCDL = 10.0psf.
8) Ceiling dead load (10.0 psf) on member(s). 23-24
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 500 lb uplift at joint 2, 565 lb uplift at joint 19, 883 lb uplift at joint 16 and 245 lb uplift at joint 14.
12) Attic room checked for L/360 deflection.

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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762466
1567-A	H13	Attic	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 9.09 S 8.73 Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Mon Aug 19 09:23:50 Page: 1
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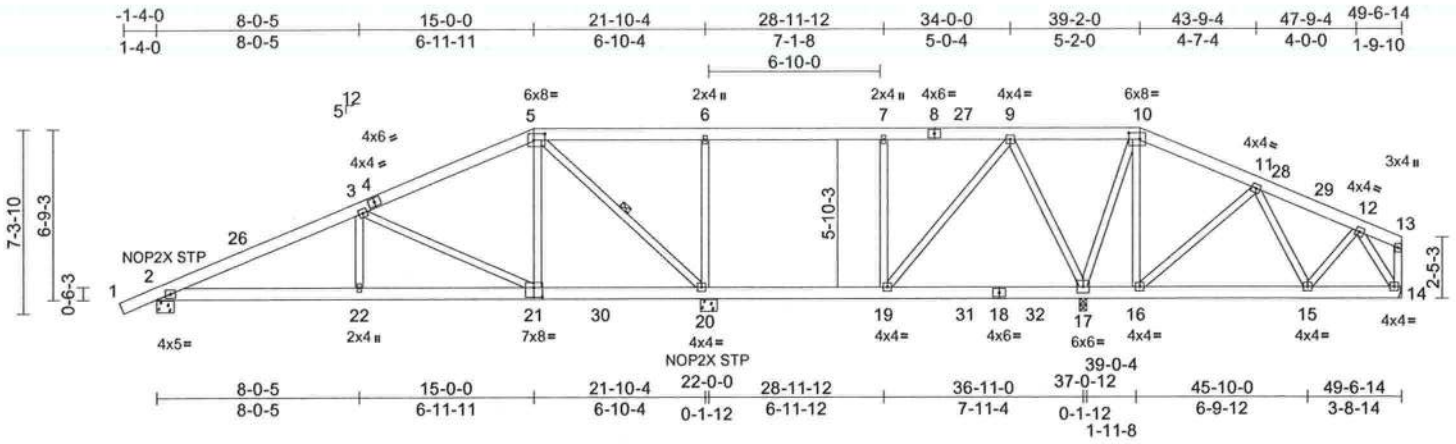

Scale = 1:88

Plate Offsets (X, Y): [5:0-5-4,0-3-0], [10:0-5-4,0-3-0], [21:0-4-0,0-4-8]

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	0.40	Vert(LL)	-0.07	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.12	22-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.03	20	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.06	19-20	>999	360	Weight: 360 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-20

REACTIONS All bearings 0-8-0. except 17=0-3-8, 14= Mechanical
(lb) - Max Horiz 2=233 (LC 16)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-492 (LC 12), 14=-203 (LC 28), 17=-905 (LC 9), 20=-528 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) 14 except 2=1006 (LC 28), 17=2308 (LC 2), 20=1742 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-26=-1687/667, 3-26=-1650/685, 3-4=-862/349, 4-5=-851/377, 9-10=-284/1080, 10-11=-209/866, 11-28=-46/315, 28-29=-53/298, 12-29=-60/296
BOT CHORD 2-22=-700/1523, 21-22=-700/1523, 21-30=-180/726, 20-30=-180/726, 19-20=-163/284, 19-31=-593/351, 18-31=-593/351, 18-32=-593/351, 17-32=-593/351, 16-17=-773/374, 15-16=-470/183
WEBS 3-22=0/327, 3-21=-887/670, 5-21=-214/597, 5-20=-946/504, 6-20=-656/373, 7-19=-394/294, 9-19=-219/996, 9-17=-1165/548, 10-17=-1024/459, 10-16=-172/428, 11-16=-552/349, 11-15=-74/457, 12-14=-99/255

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 49-5-2 to 49-5-2 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 MT20 plates 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, with BCDL = 10.0psf.
8) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-7
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-20
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 491 lb uplift at joint 2, 528 lb uplift at joint 20, 904 lb uplift at joint 17 and 202 lb uplift at joint 14.
12) Attic room checked for L/360 deflection.

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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762467
1567-A	H14	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 9.08 S 8.73 Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Mon Aug 19 09:35:45 Page: 1
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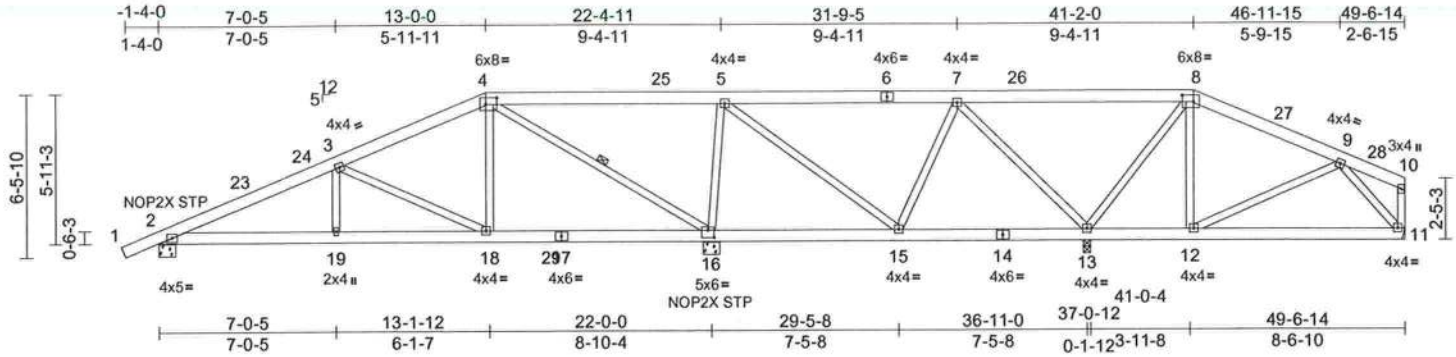

Scale = 1:87.9

Plate Offsets (X, Y): [4:0-5-4,0-3-0], [8:0-5-4,0-3-0], [16:0-3-0,0-3-8]

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	0.50	Vert(LL)	0.06	19-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.09	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 349 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-16

REACTIONS All bearings 0-8-0. except 13=0-3-8, 11= Mechanical
(lb) - Max Horiz 2=208 (LC 16)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-478 (LC 12), 11=-224 (LC 13), 13=-668 (LC 9), 16=-936 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) except 2=880 (LC 27), 11=425 (LC 28), 13=1198 (LC 28), 16=1849 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-1421/672, 23-24=-1385/672, 3-24=-1329/685, 3-4=-758/430, 4-25=-159/459, 5-25=-159/459, 7-26=-137/294, 8-26=-137/294
BOT CHORD 2-19=-689/1282, 18-19=-689/1282, 18-29=-264/660, 17-29=-264/660, 16-17=-264/660, 15-16=-407/326, 11-12=-223/251
WEBS 3-19=0/255, 3-18=-709/564, 4-18=-158/603, 4-16=-1309/636, 5-16=-914/731, 5-15=-218/563, 7-13=-645/504, 8-13=-736/441, 8-12=-31/290, 9-11=-359/335

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 49-5-2 to 49-5-2 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 MT20 plates 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, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 2, 936 lb uplift at joint 16, 668 lb uplift at joint 13 and 223 lb uplift at joint 11.

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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762468
1567-A	H15	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680. Run: 9.08 S 8.73 Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Mon Aug 19 09:36:26 Page: 1

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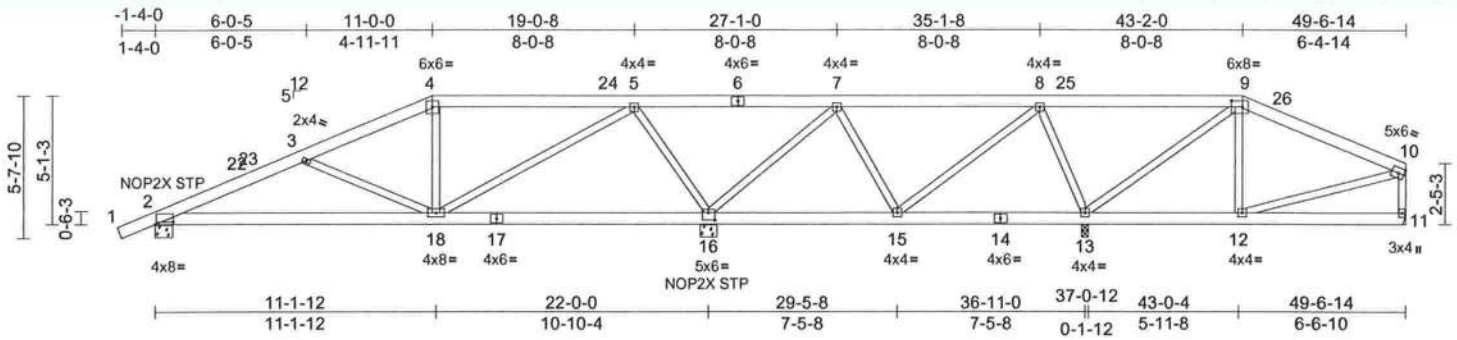

Scale = 1:87.8

Plate Offsets (X, Y): [2:0-8-5,0-1-0], [9:0-5-4,0-3-0], [16:0-3-0,0-3-8]

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	0.43	Vert(LL)	-0.07	18-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.15	18-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 337 lb	FT = 20%

LUMBER
TOP CHORD 2x6 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 0-8-0. except 13=0-3-8, 11= Mechanical
(lb) - Max Horiz 2=184 (LC 16)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-461 (LC 12), 11=-223 (LC 13), 13=-648 (LC 9), 16=-994 (LC 8)
Max Grav All reactions 250 (lb) or less at joint (s) except 2=832 (LC 25), 11=418 (LC 26), 13=1092 (LC 26), 16=1743 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-1319/696, 22-23=-1273/698, 3-23=-1262/707, 3-4=-903/481, 4-24=-772/491, 5-24=-772/491, 5-6=-328/628, 6-7=-328/628, 9-26=-284/235, 10-26=-360/222, 10-11=-356/256
BOT CHORD 2-18=-749/1200, 12-13=-151/271
WEBS 3-18=-468/497, 5-18=-421/896, 5-16=-1168/813, 7-16=-833/587, 8-13=-631/536, 9-13=-597/369

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 49-5-2 to 49-5-2 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 MT20 plates 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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 460 lb uplift at joint 2, 993 lb uplift at joint 16, 647 lb uplift at joint 13 and 223 lb uplift at joint 11.

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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762469
1567-A	H16	Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 9.08 S 8.73 Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Mon Aug 19 09:36:55 Page: 1
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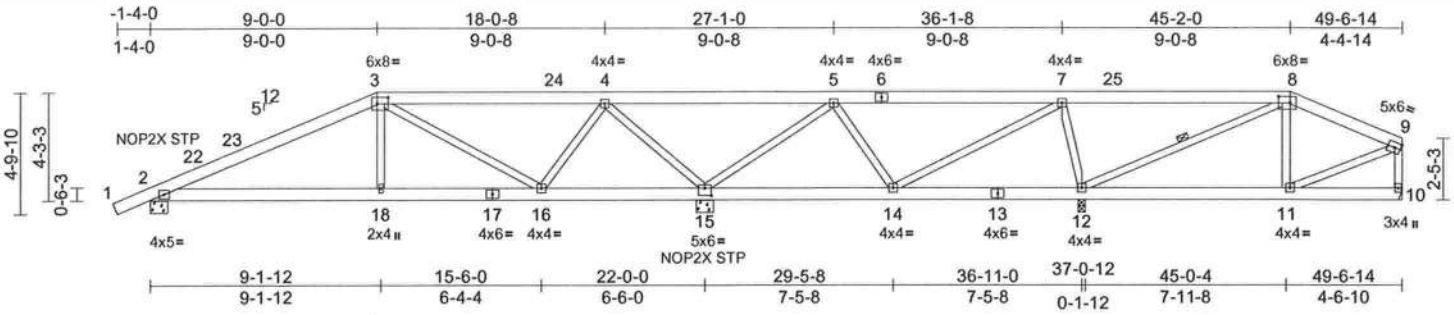

Scale = 1:87.7

Plate Offsets (X, Y): [3:0-5-4,0-3-0], [8:0-5-4,0-3-0], [15:0-3-0,0-3-8]

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	0.51	Vert(LL)	0.12	18-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.14	18-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 326 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-12

REACTIONS All bearings 0-8-0. except 12=0-3-8, 10= Mechanical
(lb) - Max Horiz 2=163 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-451 (LC 12), 10=-198 (LC 13), 12=-656 (LC 9), 15=-1011 (LC 9)
Max Grav All reactions 250 (lb) or less at joint (s) except 2=842 (LC 1), 10=433 (LC 26), 12=1054 (LC 26), 15=1730 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-1177/575, 22-23=-1138/581, 3-23=-1113/602, 3-24=-517/364, 4-24=-517/364, 4-5=-427/743, 8-9=-421/249, 9-10=-400/242
BOT CHORD 2-18=-571/1026, 17-18=-570/1035, 16-17=-570/1035, 15-16=-216/259, 11-12=-220/353
WEBS 3-18=0/355, 3-16=-600/379, 4-16=-128/521, 4-15=-1391/938, 5-15=-997/698, 7-12=-676/609, 8-12=-522/321, 9-11=-185/373

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 49-5-2 to 49-5-2 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 MT20 plates 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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 450 lb uplift at joint 2, 1011 lb uplift at joint 15, 656 lb uplift at joint 12 and 198 lb uplift at joint 10.

LOAD CASE(S) Standard

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	McDow T34762470
1567-A	H17	Half Hip	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680, Run: 9.08 S 8.73 Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Mon Aug 19 09:37:15 Page: 1
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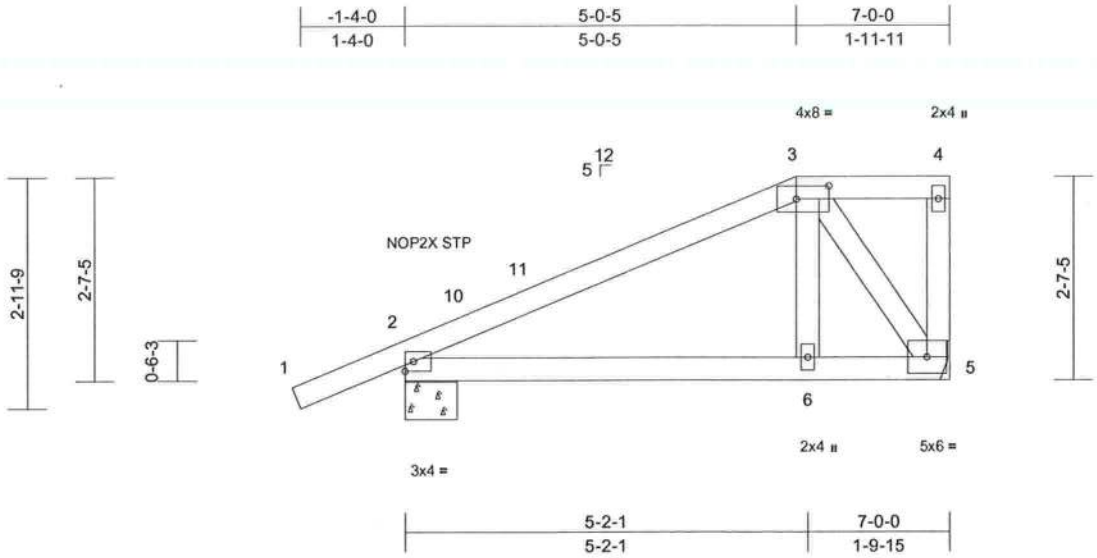

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Plate Offsets (X, Y): [3:0-5-0,0-2-0]

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	0.48	Vert(LL)	0.04	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 33 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.

REACTIONS (lb/size) 2=366/0-8-0, 5=266/ Mechanical
Max Horiz 2=188 (LC 11)
Max Uplift 2=-224 (LC 12), 5=-151 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-408/153
BOT CHORD 2-6=-413/301, 5-6=-294/300
WEBS 3-5=-389/390

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 6-10-4 to 6-10-4 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
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 MT20 plates 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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2 and 151 lb uplift at joint 5.

LOAD CASE(S) Standard

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Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	
1567-A	HGR38	Hip Girder	1	2	Job Reference (optional)	T34762471

19 Lumber, Inc., Old Town, FL - 32680,

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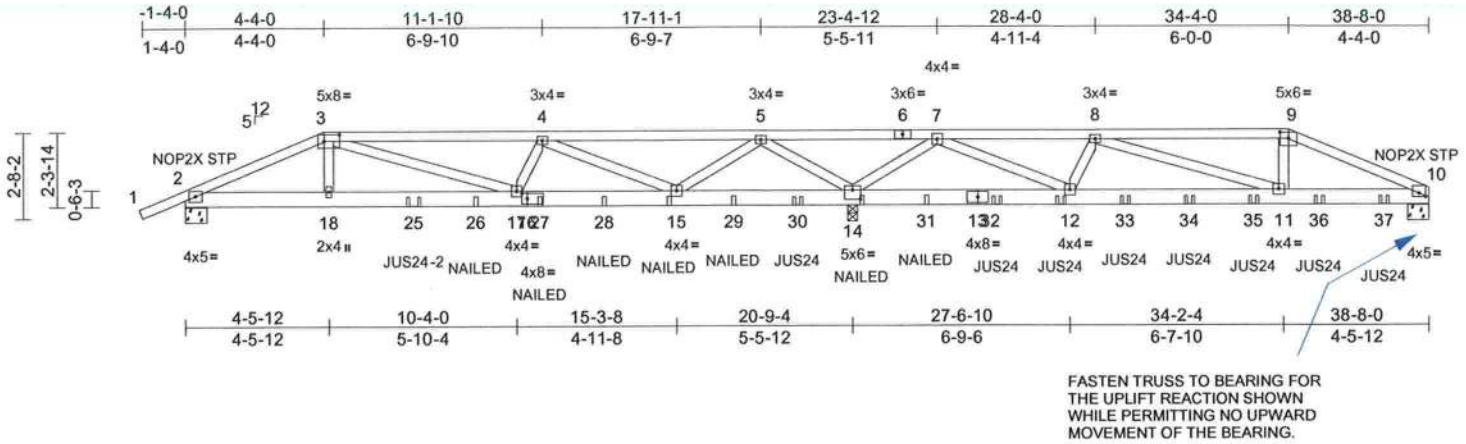


FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

Scale = 1:68.8

Plate Offsets (X, Y): [3:0-5-12,0-2-8], [9:0-3-0,0-2-4], [10:0-2-8,0-1-4], [14:0-3-0,0-3-8], [16:0-2-0,0-2-0]

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	0.75	Vert(LL)	-0.18	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	0.19	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 412 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 Rigid ceiling directly applied or 6-0-0 oc bracing.

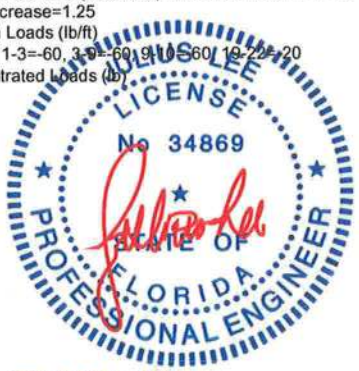
REACTIONS (size) 2=0-8-0, 10=0-8-0, 14=0-3-8
Max Horiz 2=89 (LC 8)
Max Uplift 2=-600 (LC 4), 10=-1912 (LC 30), 14=-3203 (LC 5)
Max Grav 2=1236 (LC 22), 10=1309 (LC 41), 14=3478 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-2554/1175, 3-4=-3140/1219, 4-5=-1960/791, 5-7=-2495/2638, 7-8=-2568/4302, 8-9=-2476/3584, 9-10=-2614/3774
BOT CHORD 2-18=-1030/2311, 17-18=-1043/2343, 15-17=-1040/3011, 14-15=-1193/1440, 12-14=-1297/519, 11-12=-4082/2549, 10-11=-3460/2398
WEBS 3-18=-205/442, 3-17=-235/1081, 4-17=-324/528, 4-15=-2046/1581, 5-15=-984/1535, 5-14=-2112/1691, 7-14=-2296/2571, 7-12=-3379/3079, 8-12=-618/444, 8-11=-203/777, 9-11=-1674/1105

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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 1912 lb uplift at joint 10, 600 lb uplift at joint 2 and 3203 lb uplift at joint 14.
12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
13) Use MiTek JUS24-2 (With 4-16d nails into Girder & 2-16d nails into Truss) or equivalent at 7-1-9 from the left end to connect truss(es) to front face of bottom chord.
14) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 6-2-8 oc max. starting at 19-0-12 from the left end to 37-3-4 to connect truss(es) to front face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-9=-60, 9-10=-60, 19-22=-20
Concentrated Loads (lb)



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 19,2024

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762471
1567-A	HGR38	Hip Girder	1	2	Job Reference (optional)	

Vert: 15=143 (F), 14=-182 (F), 12=202 (F), 25=-476 (F), 26=-220 (F), 27=-136 (F), 28=-53 (F), 29=103 (F), 30=-394 (F), 31=-68 (F), 32=-9 (F), 33=211 (F), 34=203 (F), 35=244 (F), 36=220 (F), 37=227 (F)

Job	Truss	Truss Type	Qty	Ply	McDow	T34762472
1567-A	HGR38A	Hip Girder	1	2	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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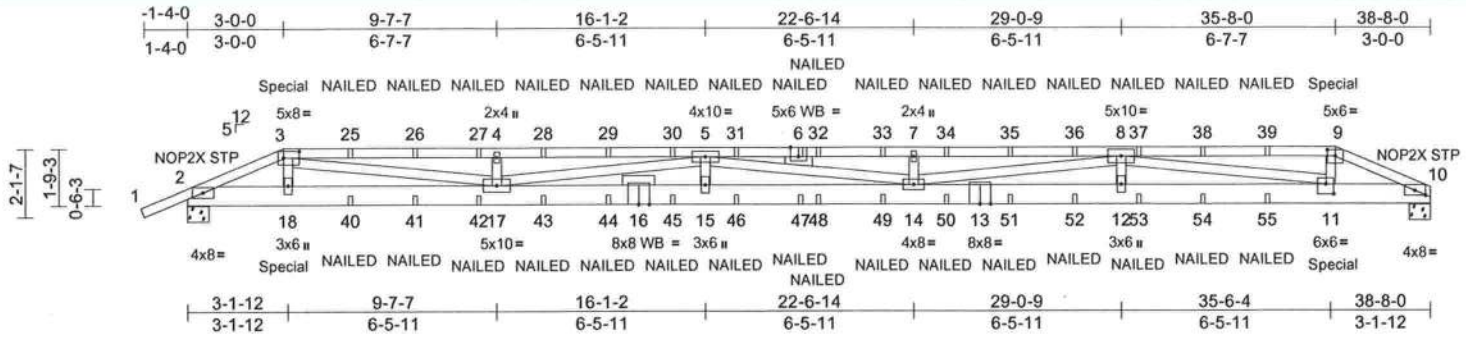

Scale = 1:68.7

Plate Offsets (X, Y): [3:0-6-0,0-2-8], [6:0-3-0,Edge], [9:0-3-0,0-2-4], [10:0-4-0,0-1-14], [11:0-3-0,0-3-12]

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	0.52	Vert(LL)	1.35	14-15	>342	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-1.48	14-15	>314	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 473 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 3-6,6-9:2x4 SP 2400F 2.0E
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.

REACTIONS (size) 2=0-8-0, 10=0-8-0
Max Horiz 2=72 (LC 8)
Max Uplift 2=-1157 (LC 4), 10=-1067 (LC 5)
Max Grav 2=1816 (LC 1), 10=1730 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-4498/2856, 3-4=-8654/5677, 4-5=-8654/5677, 5-7=-11393/7501, 7-8=-11393/7501, 8-9=-4078/2614, 9-10=-4276/2710
BOT CHORD 2-18=-2601/4134, 17-18=-2623/4192, 15-17=-7889/12068, 14-15=-7889/12068, 12-14=-5994/9219, 11-12=-5994/9219, 10-11=-2469/3929
WEBS 3-18=-199/575, 3-17=-3054/4555, 4-17=-421/472, 5-17=-3485/2323, 5-15=-81/484, 5-14=-694/461, 7-14=-385/437, 8-14=-1474/2223, 8-12=0/298, 8-11=-5259/3514, 9-11=-748/1355

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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 DSS .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1067 lb uplift at joint 10 and 1157 lb uplift at joint 2.
12) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 192 lb down and 134 lb up at 3-0-0, and 192 lb down and 134 lb up at 35-8-0 on top chord, and 76 lb down at 3-0-0, and 76 lb down at 35-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-9=-60, 9-10=-60, 19-22=-20
Concentrated Loads (lb)
Vert: 3=-22 (B), 6=-9 (B), 9=-22 (B), 18=-20 (B), 11=-20 (B), 25=-9 (B), 26=-9 (B), 27=-9 (B), 28=-9 (B), 29=-9 (B), 30=-9 (B), 31=-9 (B), 32=-9 (B), 33=-9 (B), 34=-9 (B), 35=-9 (B), 36=-9 (B), 37=-9 (B), 38=-9 (B), 39=-9 (B), 40=-8 (B), 41=-8 (B), 42=-8 (B), 43=-8 (B), 44=-8 (B), 45=-8 (B), 46=-8 (B), 47=-8 (B), 48=-8 (B), 49=-8 (B), 50=-8 (B), 51=-8 (B), 52=-8 (B), 53=-8 (B), 54=-8 (B), 55=-8 (B)

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

August 19,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	McDow	
1567-A	HGR49	Hip Girder	1	2	Job Reference (optional)	T34762473

19 Lumber, Inc., Old Town, FL - 32680,

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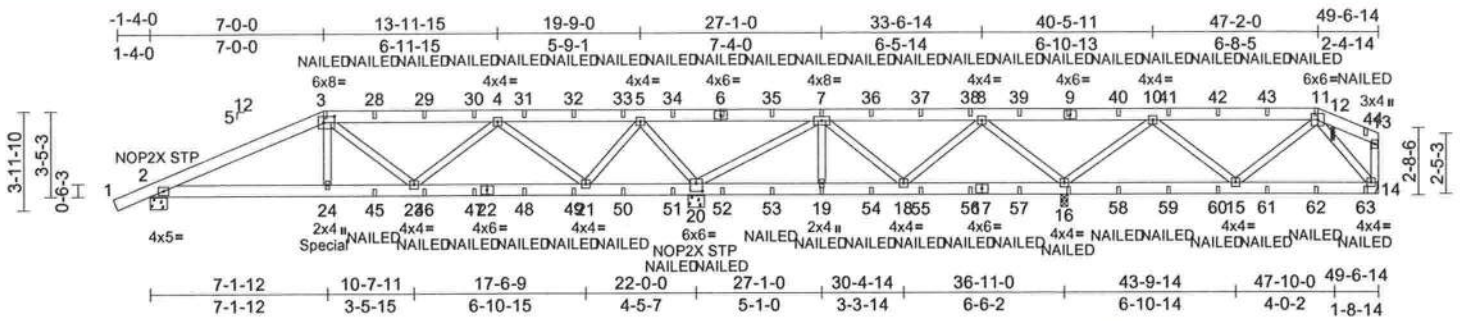

Scale = 1:89.2

Plate Offsets (X, Y): [3:0-5-4,0-3-0], [20:0-3-0,0-3-12]

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	0.44	Vert(LL)	0.06	23-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.08	21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 654 lb	FT = 20%

LUMBER
TOP CHORD 2x6 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-8-0, 12=0-1-8, 14= Mechanical, 16=0-3-8, 20=0-8-0
Max Horiz 2=166 (LC 7)
Max Uplift 2=-879 (LC 8), 12=-349 (LC 5), 14=-320 (LC 4), 16=-1503 (LC 4), 20=-2486 (LC 5)
Max Grav 2=1459 (LC 21), 12=532 (LC 1), 14=496 (LC 1), 16=2286 (LC 22), 20=3842 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-2879/1728, 3-4=-2493/1496, 4-5=-563/370, 5-7=-1508/2273, 7-8=-81/61, 8-10=-712/933, 10-11=-501/288, 11-12=-135/121, 12-13=-81/76, 13-14=-114/133
BOT CHORD 2-24=-1624/2616, 23-24=-1631/2643, 21-23=-1430/2025, 20-21=-528/308, 19-20=-220/125, 18-19=-220/125, 16-18=-138/27, 15-16=-365/345, 14-15=-270/289
WEBS 3-24=-175/615, 3-23=-193/299, 4-23=-95/771, 4-21=-1907/1448, 5-21=-950/1833, 5-20=-2894/2077, 7-20=-2406/1697, 7-19=0/267, 7-18=-57/394, 8-18=0/223, 8-16=-1285/1128, 10-16=-1663/1392, 10-15=0/419, 11-15=0/406, 11-14=-452/410

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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) Bearings are assumed to be: Joint 12 SP No.2 , Joint 2 SP No.2 , Joint 20 SP No.2 , Joint 16 SP No.2 .
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 879 lb uplift at joint 2, 2486 lb uplift at joint 20, 1503 lb uplift at joint 16, 320 lb uplift at joint 14 and 349 lb uplift at joint 12.
14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.
15) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 436 lb down and 195 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-11=-60, 11-13=-60, 14-25=-20
Concentrated Loads (lb)

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Date:

August 19,2024

Continued on page 2

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Vert: 3=-130 (B), 6=-130 (B), 11=-130 (B), 24=-436 (B), 19=-59 (B), 7=-130 (B), 16=-59 (B), 9=-130 (B), 28=-130 (B), 29=-130 (B), 30=-130 (B), 31=-130 (B), 32=-130 (B), 33=-130 (B), 34=-130 (B), 35=-130 (B), 36=-130 (B), 37=-130 (B), 38=-130 (B), 39=-130 (B), 40=-130 (B), 41=-130 (B), 42=-130 (B), 43=-130 (B), 44=-14 (B), 45=-59 (B), 46=-59 (B), 47=-59 (B), 48=-59 (B), 49=-59 (B), 50=-59 (B), 51=-59 (B), 52=-59 (B), 53=-59 (B), 54=-59 (B), 55=-59 (B), 56=-59 (B), 57=-59 (B), 58=-59 (B), 59=-59 (B), 60=-59 (B), 61=-59 (B), 62=-59 (B), 63=-197 (B)

Job	Truss	Truss Type	Qty	Ply	McDow	T34762474
1567-A	T1	Roof Special	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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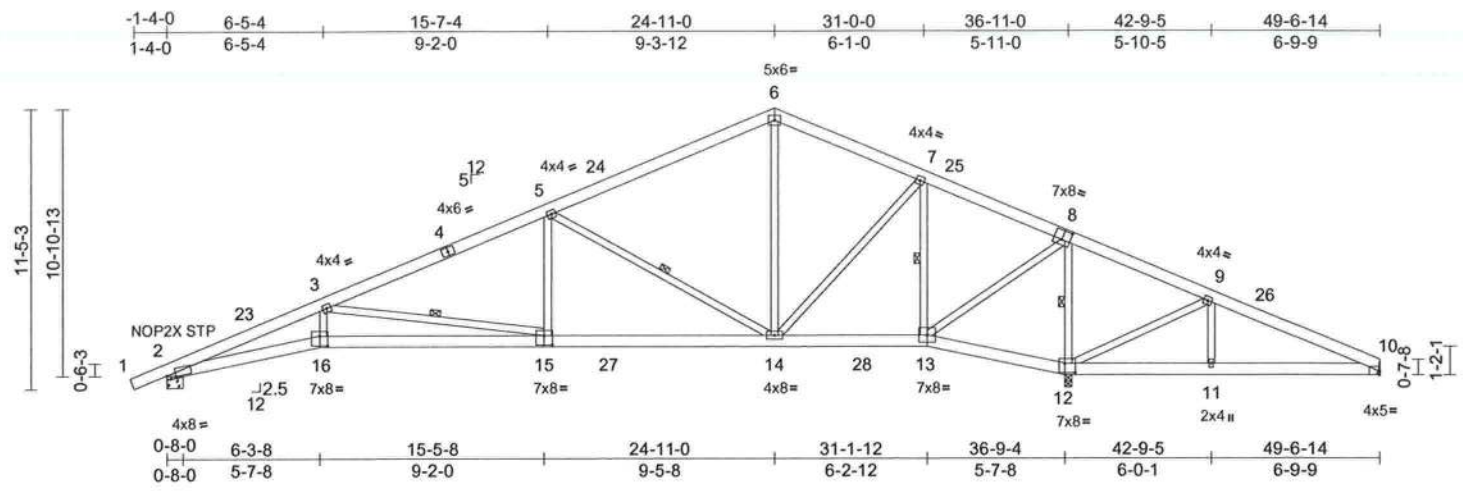

Scale = 1:90.5

Plate Offsets (X, Y): [2:0-4-3,Edge], [8:0-4-0,0-4-8], [10:0-0-4,Edge], [12:0-5-4,0-4-8], [15:0-4-0,0-4-8], [16:0-4-0,0-4-12]

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	0.57	Vert(LL)	0.41	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.56	15-16	>785	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.19	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 350 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-15, 5-14, 7-13, 8-12

REACTIONS (size) 2=0-8-0, 10= Mechanical, 12=0-3-8, (req. 0-3-15)
Max Horiz 2=351 (LC 12)
Max Uplift 2=-722 (LC 12), 10=-443 (LC 28), 12=-1376 (LC 12)
Max Grav 2=1364 (LC 2), 10=319 (LC 12), 12=3317 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4608/2495, 3-5=-2207/1085, 5-6=-785/560, 6-7=-738/588, 7-9=-1045/2182, 9-10=-893/1466
BOT CHORD 2-16=-2552/4291, 14-16=-2463/4101, 13-14=-294/364, 12-13=-2015/1142, 11-12=-1314/867, 10-11=-1314/867
WEBS 3-16=-410/1027, 3-15=-2139/1483, 5-15=-165/785, 5-14=-1551/1079, 6-14=-76/245, 7-14=-635/1211, 7-13=-1538/847, 8-13=-922/2192, 8-12=-2352/1130, 9-12=-836/557, 9-11=0/310

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 24-11-0, Zone2 24-11-0 to 31-11-2, Zone1 31-11-2 to 49-6-14 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
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) All plates are MT20 plates unless otherwise indicated.
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 = 10.0psf.
7) WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
8) Bearings are assumed to be: Joint 2 SP No.2 , Joint 12 SP No.2 .
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1376 lb uplift at joint 12, 443 lb uplift at joint 10 and 722 lb uplift at joint 2.

LOAD CASE(S) Standard

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow T34762475
1567-A	T2	Roof Special	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:51 Page: 1
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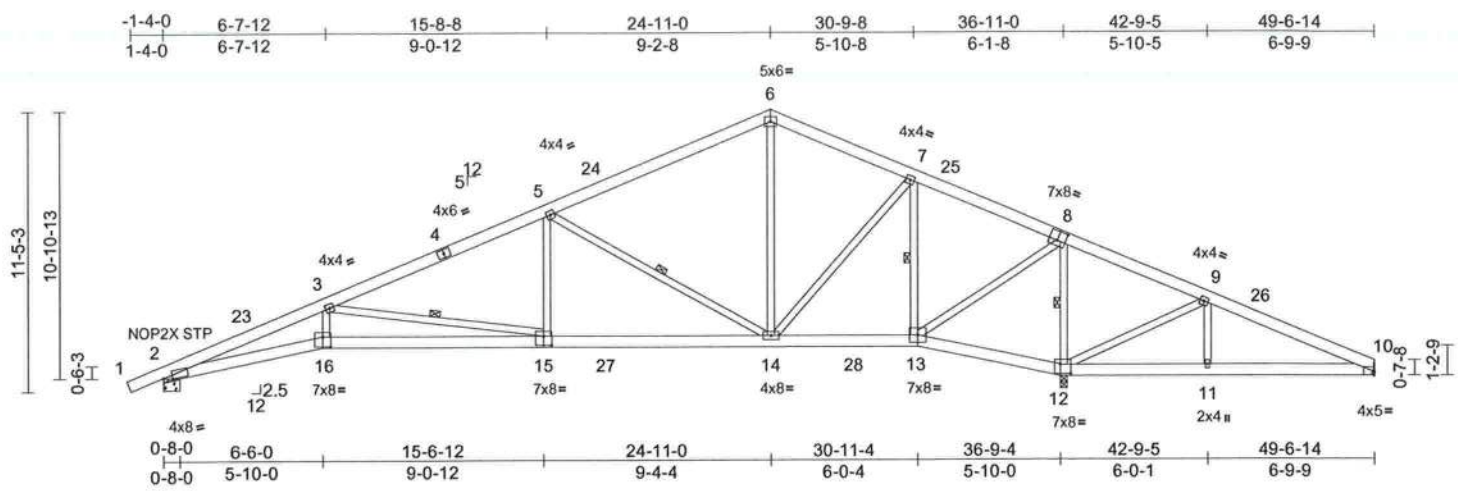

Scale = 1:90.5

Plate Offsets (X, Y): [2:0-4-3,Edge], [8:0-4-0,0-4-8], [10:0-0-4,Edge], [12:0-5-4,0-4-8], [15:0-4-0,0-4-8], [16:0-4-0,0-4-12]

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	0.55	Vert(LL)	0.41	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.56	15-16	>791	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.19	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 350 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-15, 5-14, 7-13, 8-12

REACTIONS (size) 2=0-8-0, 10= Mechanical, 12=0-3-8, (req. 0-3-15)
Max Horiz 2=351 (LC 12)
Max Uplift 2=-721 (LC 12), 10=-449 (LC 28), 12=-1380 (LC 12)
Max Grav 2=1362 (LC 2), 10=322 (LC 12), 12=3325 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4587/2481, 3-5=-2194/1080, 5-6=-778/558, 6-7=-731/587, 7-9=-1052/2197, 9-10=-900/1481
BOT CHORD 2-16=-2537/4271, 14-16=-2447/4083, 13-14=-267/349, 12-13=-2030/1148, 11-12=-1328/874, 10-11=-1328/874
WEBS 3-16=-412/1029, 3-15=-2135/1478, 5-15=-174/793, 5-14=-1547/1074, 6-14=-84/245, 7-14=-622/1181, 7-13=-1516/838, 8-13=-933/2214, 8-12=-2354/1134, 9-12=-834/555, 9-11=-1/310

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 24-11-0, Zone2 24-11-0 to 31-11-2, Zone1 31-11-2 to 49-6-14 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
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) All plates are MT20 plates unless otherwise indicated.
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 = 10.0psf.
7) WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
8) Bearings are assumed to be: Joint 2 SP No.2 , Joint 12 SP No.2 .
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1380 lb uplift at joint 12, 449 lb uplift at joint 10 and 721 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762476
1567-A	T3	Roof Special	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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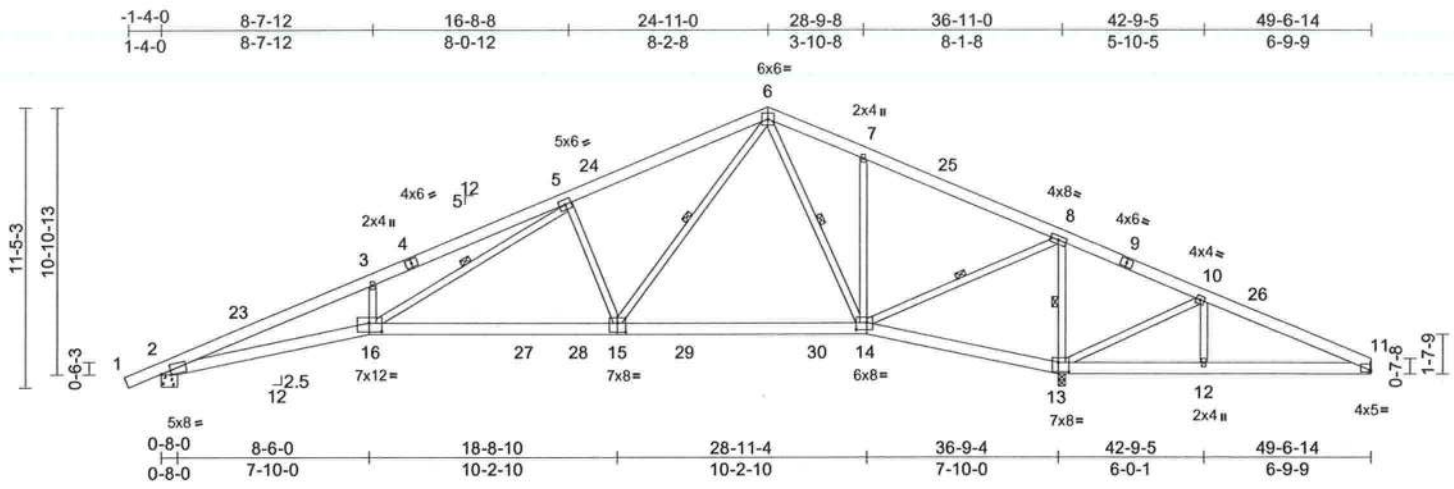

Scale = 1:90.5

Plate Offsets (X, Y): [2:0-4-11,0-1-2], [11:0-0-4,0-0-9], [13:0-5-4,0-4-8], [14:0-5-4,0-3-8], [15:0-4-0,0-4-8], [16:0-6-4,0-4-4]

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	0.62	Vert(LL)	0.45	15-16	>987	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.64	15-16	>693	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.20	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 343 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-2 oc bracing.
WEBS 1 Row at midpt 5-16, 6-15, 6-14, 8-14, 8-13

REACTIONS (size) 2=0-8-0, 11= Mechanical, 13=0-3-8, (req. 0-4-2)
Max Horiz 2=351 (LC 12)
Max Uplift 2=-706 (LC 12), 11=-538 (LC 28), 13=-1438 (LC 12)
Max Grav 2=1346 (LC 2), 11=365 (LC 12), 13=3474 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4347/2263, 3-5=-4338/2529, 5-6=-1717/957, 6-7=-271/491, 7-8=-292/282, 8-10=-1152/2420, 10-11=-1008/1699
BOT CHORD 2-16=-2304/4046, 14-16=-899/1846, 13-14=-2321/1277, 12-13=-1529/974, 11-12=-1529/974
WEBS 3-16=-407/522, 5-16=-1659/2538, 5-15=-969/920, 6-15=-910/1663, 6-14=-1082/666, 7-14=-412/483, 8-14=-1096/2606, 8-13=-2432/1193, 10-13=-808/514, 10-12=-8/309

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 24-11-0, Zone2 24-11-0 to 31-11-2, Zone1 31-11-2 to 49-6-14 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 13 SP No.2 .
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1438 lb uplift at joint 13, 538 lb uplift at joint 11 and 706 lb uplift at joint 2.

LOAD CASE(S) Standard

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762477
1567-A	T4	Roof Special	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:51 Page: 1
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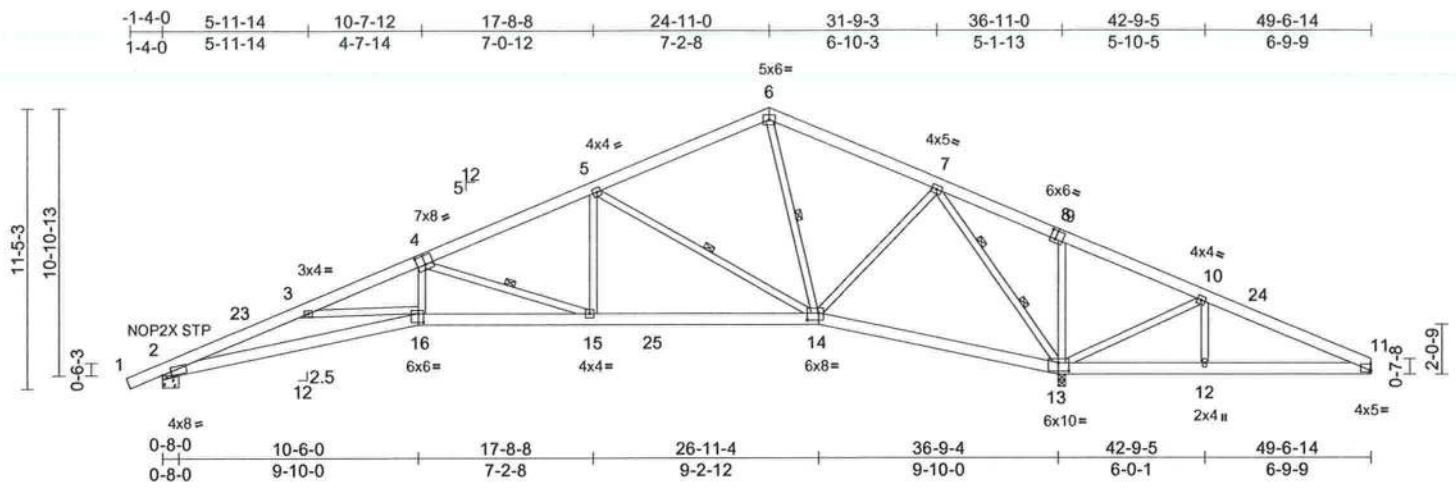

Scale = 1:90.5

Plate Offsets (X, Y): [2:0-4-3,Edge], [4:0-4-0,0-4-8], [8:0-2-8,0-4-4], [11:0-0-4,0-0-9], [13:0-5-4,0-4-0], [14:0-5-8,0-3-8], [16:0-2-8,0-4-4]

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)	0.39	16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.49	16-22	>902	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.22	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 346 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS 1 Row at midpt 4-15, 5-14, 6-14
WEBS 2 Rows at 1/3 pts 7-13

REACTIONS (size) 2=0-8-0, 11= Mechanical, 13=0-3-8, (req. 0-4-1)
Max Horiz 2=351 (LC 12)
Max Uplift 2=-697 (LC 12), 11=-541 (LC 26), 13=-1472 (LC 12)
Max Grav 2=1317 (LC 2), 11=391 (LC 12), 13=3425 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4257/2400, 3-5=-3884/2036, 5-6=-441/423, 6-7=-417/380, 7-9=-1138/2422, 9-10=-1230/2419, 10-11=-1065/1707
BOT CHORD 2-16=-2459/3986, 15-16=-1933/3475, 14-15=-762/1708, 13-14=-717/570, 12-13=-1536/1026, 11-12=-1536/1026
WEBS 3-16=-363/429, 4-16=-447/1069, 4-15=-1873/1241, 5-15=-327/976, 5-14=-1585/1027, 6-14=-152/141, 9-13=-316/351, 10-13=-813/569, 10-12=-11/292, 7-14=-590/1410, 7-13=-2880/1351

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 24-11-0, Zone2 24-11-0 to 31-9-3, Zone1 31-9-3 to 49-6-14 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
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) All plates are MT20 plates unless otherwise indicated.
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 = 10.0psf.
7) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
8) Bearings are assumed to be: Joint 2 SP No.2 , Joint 13 SP No.2 .
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1472 lb uplift at joint 13, 541 lb uplift at joint 11 and 697 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762478
1567-A	T5	Roof Special	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:52 Page: 1
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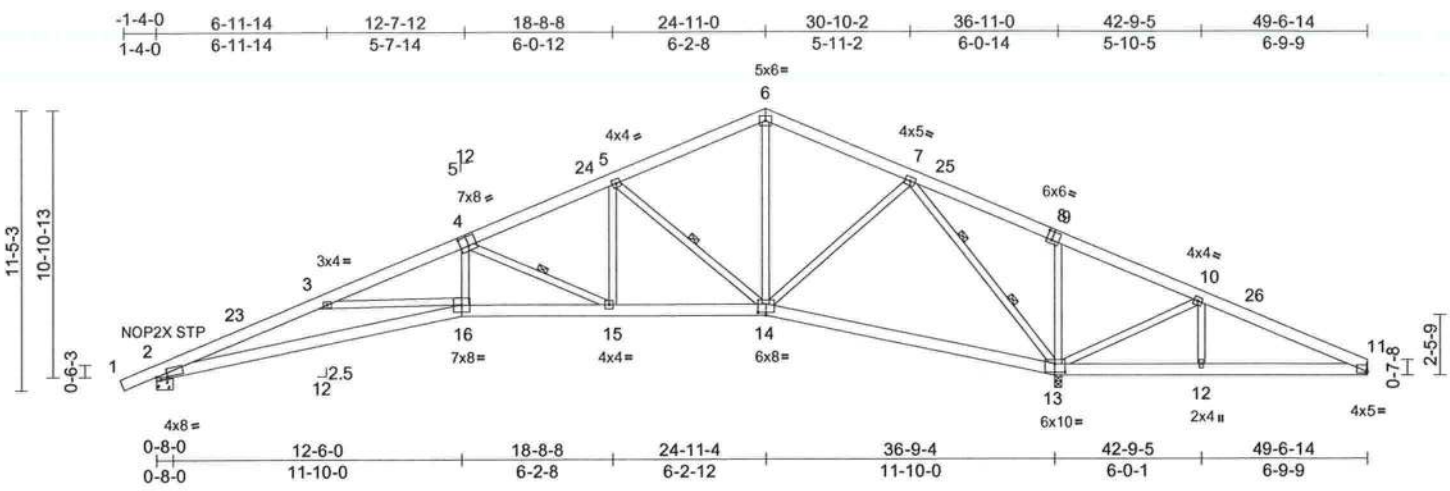

Scale = 1:90.5

Plate Offsets (X, Y): [2:0-5-3,0-0-14], [4:0-4-0,0-4-8], [8:0-2-8,0-4-4], [11:0-0-4,0-0-9], [13:0-5-4,0-4-0], [14:0-4-0,0-1-8]

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	0.54	Vert(LL)	0.38	16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.48	16-22	>912	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.22	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 345 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-14 oc bracing.
WEBS 1 Row at midpt 4-15, 5-14
WEBS 2 Rows at 1/3 pts 7-13

REACTIONS (size) 2=0-8-0, 11= Mechanical, 13=0-3-8, (req. 0-3-12)
Max Horiz 2=351 (LC 12)
Max Uplift 2=-697 (LC 12), 11=-533 (LC 26), 13=-1473 (LC 12)
Max Grav 2=1249 (LC 1), 11=391 (LC 12), 13=3179 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4010/2414, 3-5=-3308/1817, 5-6=-662/505, 6-7=-656/499, 7-9=-1131/2242, 9-10=-1232/2232, 10-11=-1067/1594
BOT CHORD 2-16=-2468/3737, 15-16=-1684/2943, 14-15=-682/1478, 13-14=-485/468, 12-13=-1435/1028, 11-12=-1435/1028
WEBS 3-16=-652/690, 4-16=-445/956, 4-15=-1623/1110, 5-15=-432/811, 5-14=-1239/925, 6-14=-68/244, 7-14=-584/1205, 7-13=-2789/1419, 9-13=-362/410, 10-13=-745/560, 10-12=-17/270

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 24-11-0, Zone2 24-11-0 to 31-11-2, Zone1 31-11-2 to 49-6-14 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
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) All plates are MT20 plates unless otherwise indicated.
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) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
8) Bearings are assumed to be: Joint 2 SP No.2 , Joint 13 SP No.2 .
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1473 lb uplift at joint 13, 533 lb uplift at joint 11 and 697 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow T34762479
1567-A	T6	Roof Special	1	1	Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:52 Page: 1
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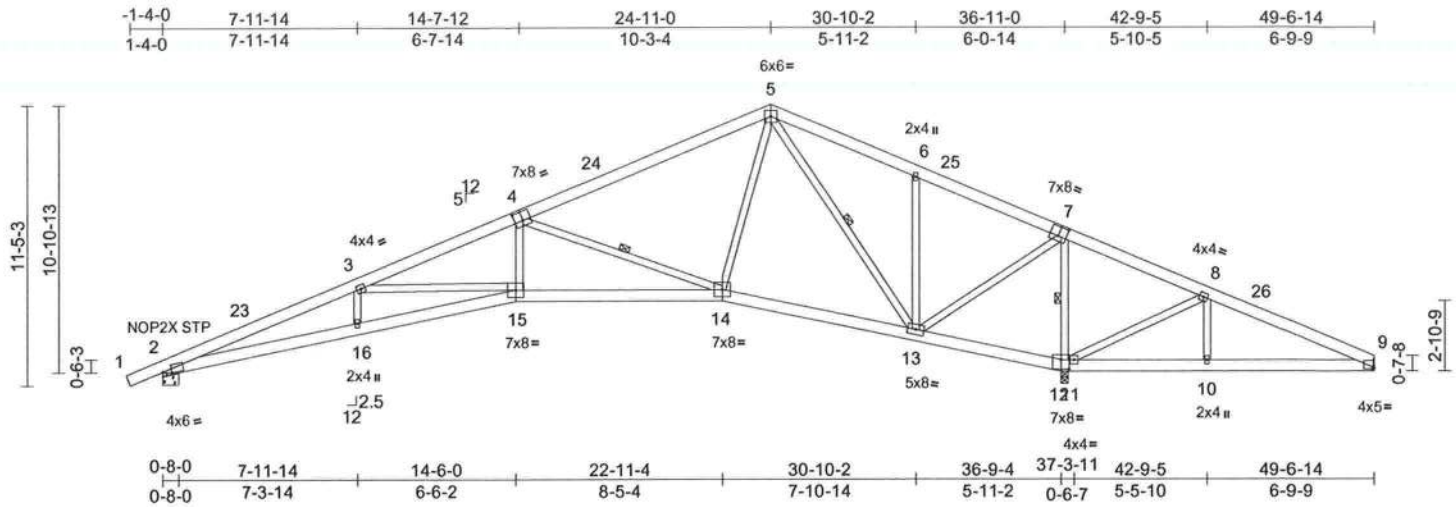

Scale = 1:90.5

Plate Offsets (X, Y): [2:0-4-7,0-1-2], [4:0-4-0,0-4-8], [7:0-4-0,0-4-8], [9:0-0-4,0-0-9], [12:0-4-0,0-4-8]

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	0.59	Vert(LL)	0.40	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.48	15-16	>922	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.23	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 342 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-1 oc bracing.
WEBS 1 Row at midpt 4-14, 5-13, 7-12

REACTIONS (size) 2=0-8-0, 9= Mechanical, 12=0-3-8, (req. 0-3-14)
Max Horiz 2=351 (LC 12)
Max Uplift 2=-693 (LC 12), 9=-588 (LC 26), 12=-1490 (LC 12)
Max Grav 2=1226 (LC 1), 9=404 (LC 12), 12=3267 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3874/2220, 3-5=-2923/1677, 5-6=-172/621, 6-8=-1254/2416, 8-9=-1094/1710
BOT CHORD 2-16=-2269/3583, 15-16=-2270/3591, 14-15=-1522/2607, 13-14=-8/536, 12-13=-2219/1342, 11-12=-2173/1312, 10-11=-1541/1052, 9-10=-1541/1052
WEBS 3-16=0/244, 3-15=-850/667, 4-15=-443/954, 4-14=-2019/1503, 5-14=-495/1044, 5-13=-1596/910, 6-13=-372/428, 7-13=-1001/2170, 8-11=-810/564, 8-10=-21/332, 7-12=-2352/1173

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-5-1 to 3-6-7, Zone1 3-6-7 to 24-11-0, Zone2 24-11-0 to 31-11-2, Zone1 31-11-2 to 49-6-14 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
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) All plates are MT20 plates unless otherwise indicated.
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) WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
8) Bearings are assumed to be: Joint 2 SP No.2 , Joint 12 SP No.2 .
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1490 lb uplift at joint 12, 588 lb uplift at joint 9 and 693 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:

August 19,2024

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

Job	Truss	Truss Type	Qty	Ply	McDow	T34762480
1567-A	V1	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:52 Page: 1
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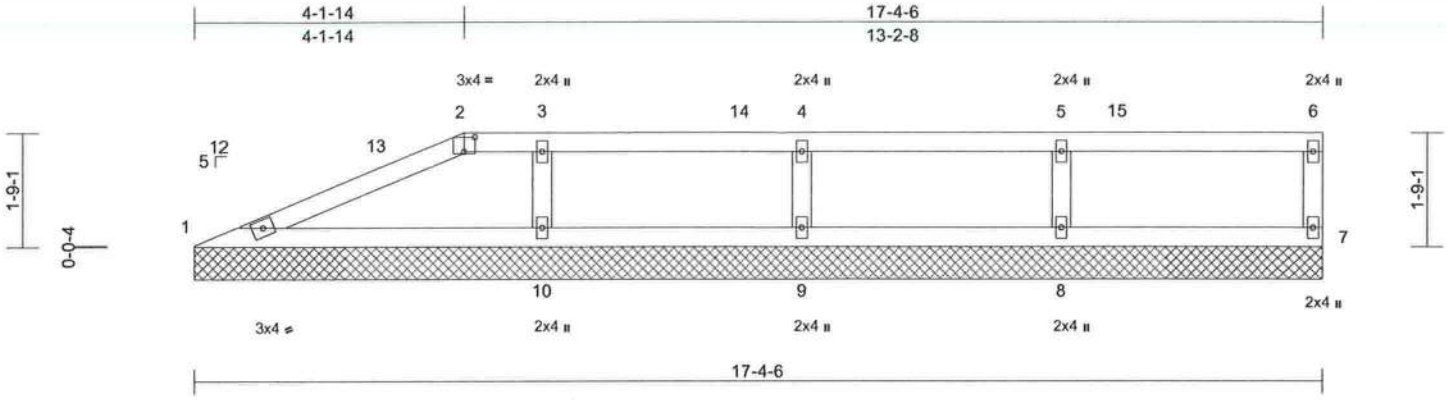

Scale = 1:34.1

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

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 58 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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=17-4-6, 7=17-4-6, 8=17-4-6, 9=17-4-6, 10=17-4-6
Max Horiz 1=115 (LC 9)
Max Uplift 1=-100 (LC 12), 7=-1130 (LC 9), 8=-212 (LC 8), 9=-180 (LC 8), 10=-240 (LC 9)
Max Grav 1=182 (LC 1), 7=1057 (LC 1), 8=348 (LC 1), 9=302 (LC 27), 10=442 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-346/187, 2-3=-71/66, 3-4=-71/66, 4-5=-71/66, 5-6=-71/66, 6-7=-99/99
BOT CHORD 1-10=-266/324, 9-10=-56/63, 8-9=-56/63, 7-8=-56/63
WEBS 5-8=-259/253, 4-9=-234/228, 3-10=-297/254

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 4-2-8, Zone2 4-2-8 to 8-5-7, Zone1 8-5-7 to 17-3-4 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
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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 1130 lb uplift at joint 7, 100 lb uplift at joint 1, 212 lb uplift at joint 8, 180 lb uplift at joint 9 and 240 lb uplift at joint 10.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 924 lb down and 1047 lb up at 17-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-6=-60, 1-7=-20
Concentrated Loads (lb)
Vert: 7=-924

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

August 19,2024

Job	Truss	Truss Type	Qty	Ply	McDow	T34762481
1567-A	V2	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:52
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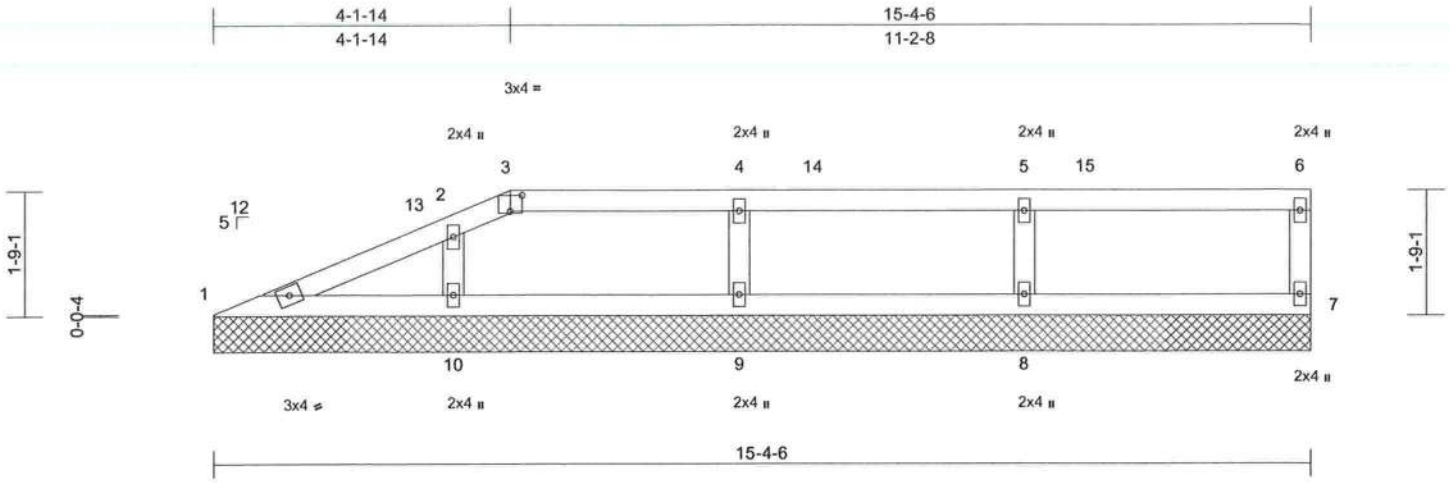

Scale = 1:31

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

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 52 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=15-4-6, 7=15-4-6, 8=15-4-6, 9=15-4-6, 10=15-4-6
Max Horiz 1=115 (LC 9)
Max Uplift 1=-55 (LC 12), 7=-837 (LC 9), 8=-208 (LC 8), 9=-199 (LC 9), 10=-180 (LC 12)
Max Grav 1=112 (LC 1), 7=811 (LC 27), 8=340 (LC 1), 9=320 (LC 27), 10=320 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-179/104, 2-3=-94/90, 3-4=-69/65, 4-5=-69/65, 5-6=-69/65, 6-7=-100/103
BOT CHORD 1-10=-175/187, 9-10=-52/60, 8-9=-52/60, 7-8=-52/60
WEBS 5-8=-254/250, 4-9=-240/240, 2-10=-220/239

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 4-2-8, Zone2 4-2-8 to 8-5-7, Zone1 8-5-7 to 15-3-4 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
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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 837 lb uplift at joint 7, 55 lb uplift at joint 1, 208 lb uplift at joint 8, 199 lb uplift at joint 9 and 180 lb uplift at joint 10.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 677 lb down and 753 lb up at 15-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 1-7=-20
Concentrated Loads (lb)
Vert: 7=-677

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

August 19,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	McDow	T34762482
1567-A	V3	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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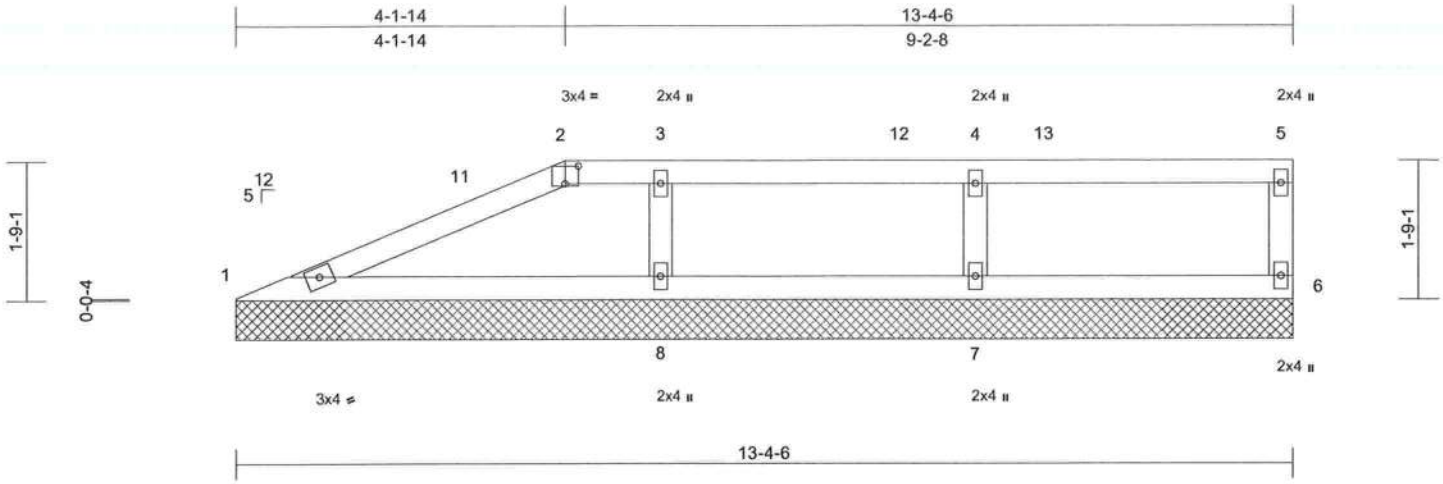

Scale = 1:28

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

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=13-4-6, 6=13-4-6, 7=13-4-6, 8=13-4-6
Max Horiz 1=115 (LC 9)
Max Uplift 1=-102 (LC 12), 6=-470 (LC 9), 7=-192 (LC 8), 8=-237 (LC 9)
Max Grav 1=184 (LC 1), 6=469 (LC 1), 7=326 (LC 27), 8=436 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-352/231, 2-3=-78/72, 3-4=-78/72, 4-5=-78/72, 5-6=-105/122
BOT CHORD 1-8=-331/352, 7-8=-68/72, 6-7=-68/72
WEBS 4-7=-252/244, 3-8=-291/297

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 4-2-8, Zone2 4-2-8 to 8-5-7, Zone1 8-5-7 to 13-3-4 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
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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 470 lb uplift at joint 6, 102 lb uplift at joint 1, 192 lb uplift at joint 7 and 237 lb uplift at joint 8.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 324 lb down and 382 lb up at 13-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-5=-60, 1-6=-20
Concentrated Loads (lb)
Vert: 6=-324

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August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762483
1567-A	V4	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Fri Aug 16 11:45:52 Page: 1
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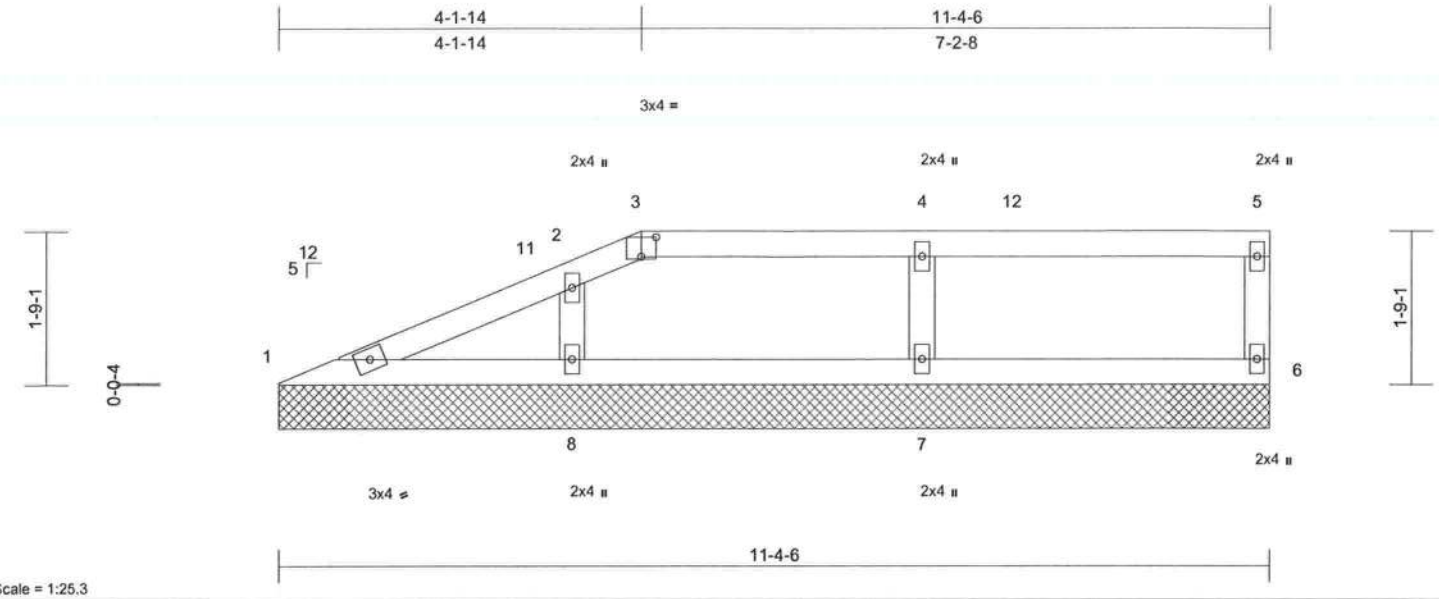

Scale = 1:25.3

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

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=11-4-6, 6=11-4-6, 7=11-4-6, 8=11-4-6
Max Horiz 1=115 (LC 9)
Max Uplift 1=-56 (LC 12), 6=-325 (LC 8), 7=-210 (LC 9), 8=-179 (LC 12)
Max Grav 1=114 (LC 1), 6=282 (LC 1), 7=342 (LC 27), 8=314 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-184/124, 2-3=-98/99, 3-4=-71/68, 4-5=-71/68, 5-6=-99/126
BOT CHORD 1-8=-216/203, 7-8=-57/62, 6-7=-57/62
WEBS 4-7=-257/296, 2-8=-225/275

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 4-2-8, Zone2 4-2-8 to 8-5-7, Zone1 8-5-7 to 11-3-4 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
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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 325 lb uplift at joint 6, 56 lb uplift at joint 1, 210 lb uplift at joint 7 and 179 lb uplift at joint 8.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 176 lb down and 242 lb up at 11-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 1-6=-20
Concentrated Loads (lb)
Vert: 6=-148

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August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762484
1567-A	V5	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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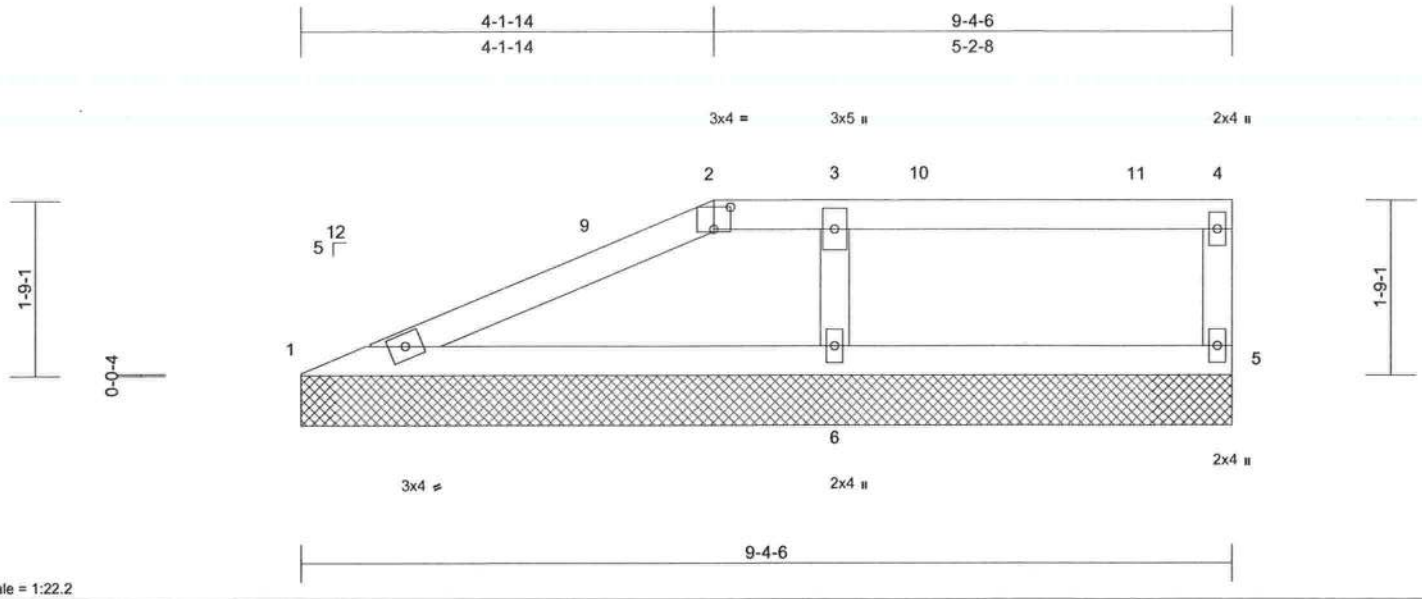

Scale = 1:22.2

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

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 31 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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=9-4-6, 5=9-4-6, 6=9-4-6
Max Horiz 1=115 (LC 9)
Max Uplift 1=-96 (LC 12), 5=-324 (LC 8), 6=-249 (LC 9)
Max Grav 1=177 (LC 1), 5=305 (LC 27), 6=460 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-335/278, 2-3=-62/66, 3-4=-62/66, 4-5=-98/119
BOT CHORD 1-6=-385/364, 5-6=-48/52
WEBS 3-6=-331/410

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 4-2-8, Zone2 4-2-8 to 8-5-7, Zone1 8-5-7 to 9-3-4 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
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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 324 lb uplift at joint 5, 96 lb uplift at joint 1 and 249 lb uplift at joint 6.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 182 lb down and 252 lb up at 9-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 5=-182

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Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow	T34762485
1567-A	V6	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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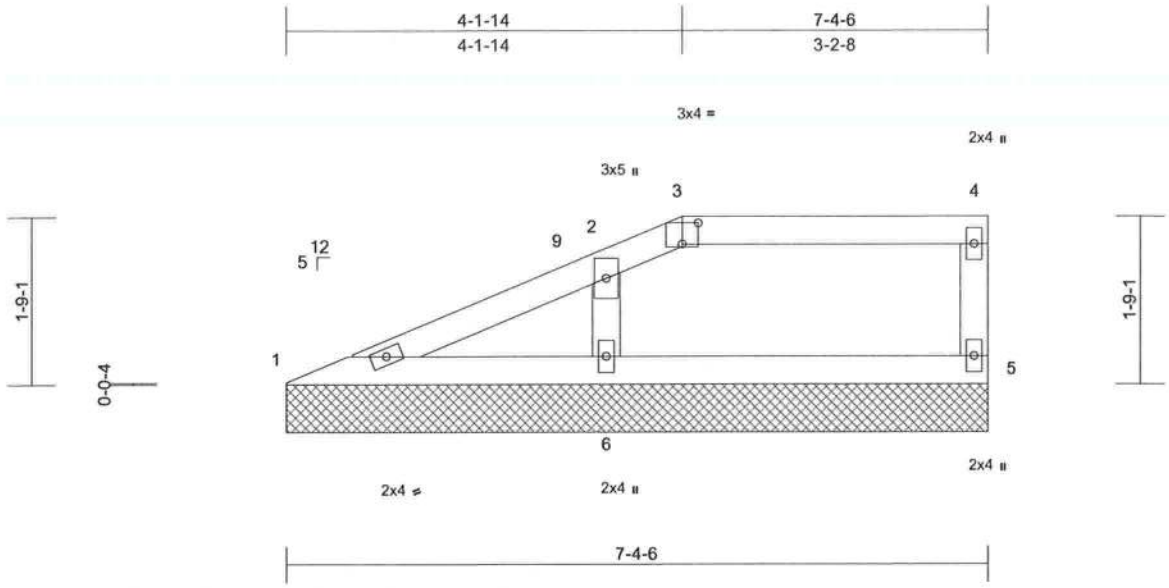

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Plate Offsets (X, Y): [3:0-2-0,0-2-11]

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 24 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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=7-4-6, 5=7-4-6, 6=7-4-6
Max Horiz 1=115 (LC 9)
Max Uplift 1=-54 (LC 12), 5=-76 (LC 9), 6=-188 (LC 9)
Max Grav 1=97 (LC 1), 5=124 (LC 27), 6=360 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-166/120, 2-3=-89/106, 3-4=-48/52, 4-5=-97/148
BOT CHORD 1-6=-212/180, 5-6=-48/52
WEBS 2-6=-311/471

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 4-2-8, Zone3 4-2-8 to 7-3-4 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
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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 76 lb uplift at joint 5, 54 lb uplift at joint 1 and 188 lb uplift at joint 6.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 283 lb down and 130 lb up at 2835686220?áá 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: 1-3=-60, 3-4=-60, 1-5=-20

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Date:

August 19,2024

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Job	Truss	Truss Type	Qty	Ply	McDow T34762486
1567-A	V7	Valley	1	1	Job Reference (optional)

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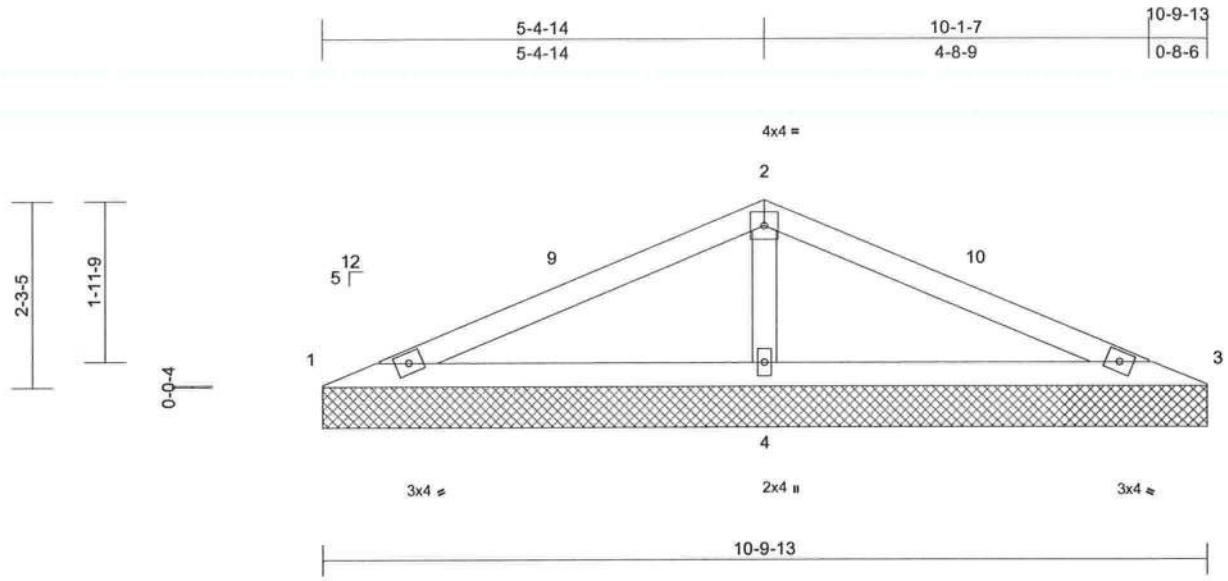

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 34 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 8-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=10-9-13, 3=10-9-13, 4=10-9-13
Max Horiz 1=-63 (LC 17)
Max Uplift 1=-47 (LC 12), 3=-59 (LC 13), 4=-347 (LC 12)
Max Grav 1=96 (LC 25), 3=96 (LC 26), 4=753 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-418/423, 2-3=-420/423
BOT CHORD 1-4=-366/499, 3-4=-366/499
WEBS 2-4=-565/681

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 5-5-8, Zone2 5-5-8 to 9-5-8, Zone1 9-5-8 to 10-10-6 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1, 59 lb uplift at joint 3 and 347 lb uplift at joint 4.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 19,2024

Job	Truss	Truss Type	Qty	Ply	McDow	T34762487
1567-A	V8	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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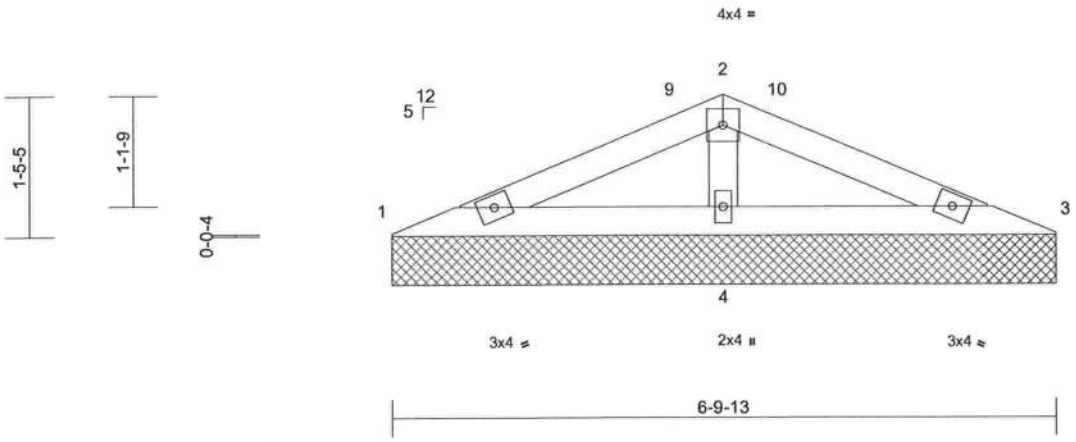
3-4-14	2-8-9	0-8-6



Scale = 1:22.7

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 20 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 6-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=6-9-13, 3=6-9-13, 4=6-9-13
Max Horiz 1=38 (LC 12)
Max Uplift 1=-46 (LC 12), 3=-54 (LC 13), 4=-186 (LC 12)
Max Grav 1=83 (LC 25), 3=83 (LC 26), 4=414 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-273/195, 2-3=-285/195
BOT CHORD 1-4=-201/399, 3-4=-201/399
WEBS 2-4=-272/481

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 3-5-8, Zone3 3-5-8 to 6-10-6 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 54 lb uplift at joint 3 and 186 lb uplift at joint 4.

LOAD CASE(S) Standard

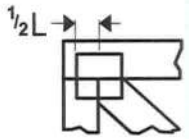
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 19,2024

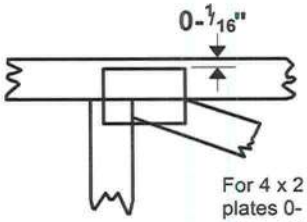
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

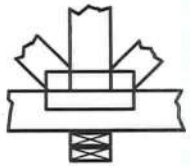
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

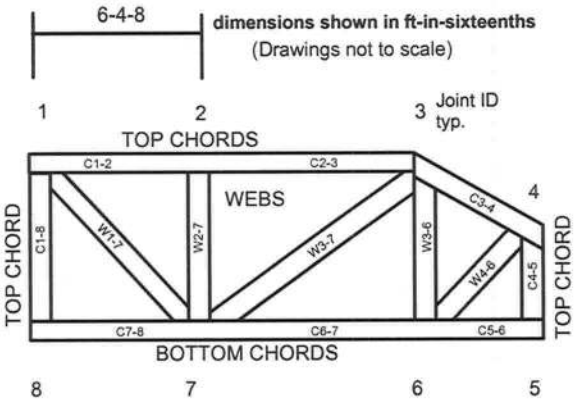


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

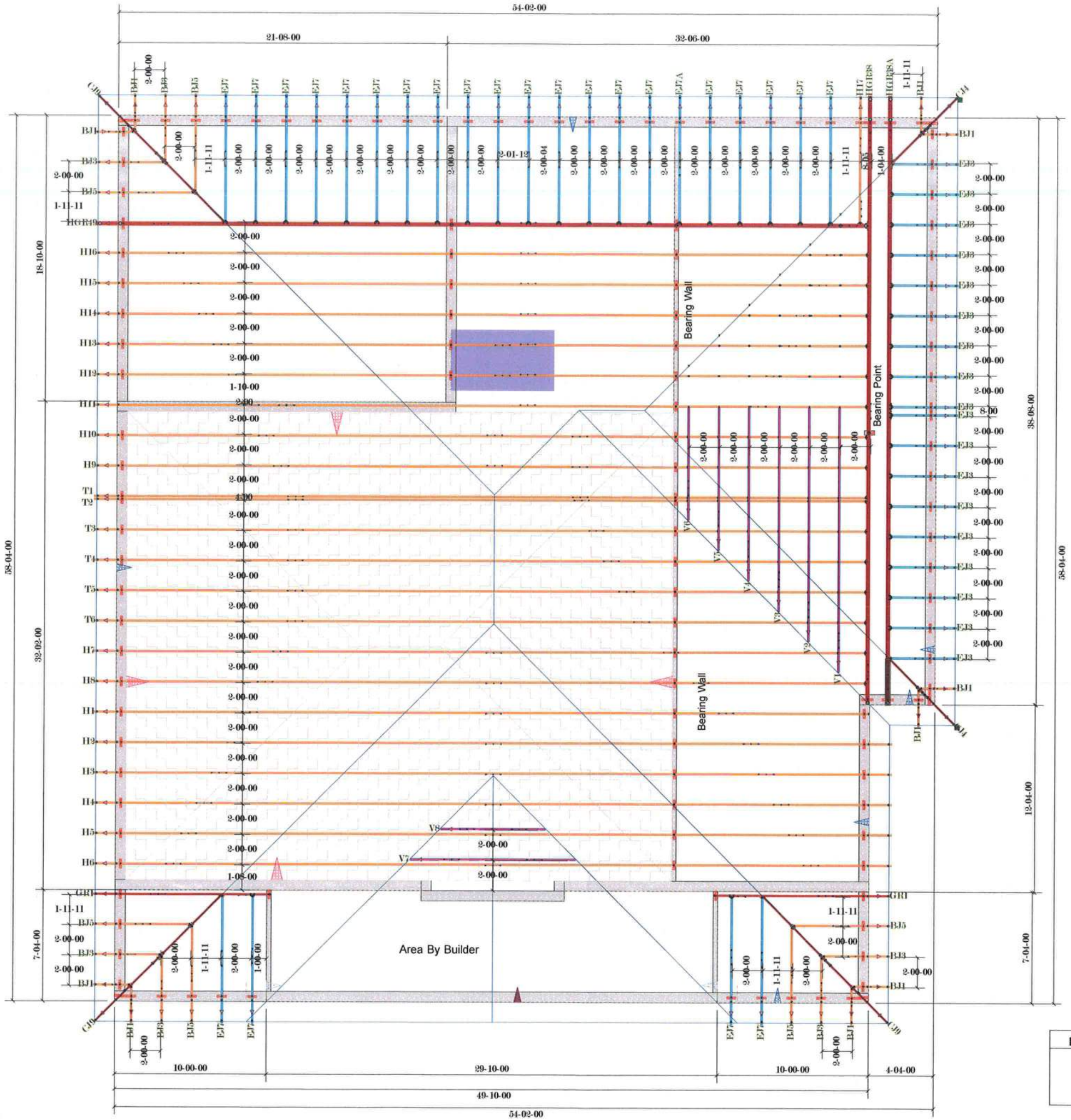
MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



HANGER LIST

JOB NAME: McDow

CUSTOMER NAME: JBC Builders

ADDRESS: 1640 SW Salem Rd.
Lake City FL 32024

DATE: 6/18/2024
JOB#1567

PITCH: 5/12
OVERHANG: 1-04-00
ROOF SPACING: 24"
HEEL HEIGHT: 2X6

WALL HEIGHT: 8'

*The General Contractor is Reponsible For All Connections Other Than Truss to Truss,unless specified otherwise.

FBC 2023
Roof loading
TCLL:20.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:10.0 lb/ft²
Floor Loading
TCLL:40.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:5.0 lb/ft²

***THIS DRAWING MUST BE APPROVED AND RETURNED BEFORE FABRICATION WILL BEGIN. For Your Protection Check All Dimensions and Conditions Prior to Approval Of Plan**

***SIGNATURE BELOW INDICATES ALL NOTES AND DEMENSIONS HAVE BEEN ACCEPTED**

By: _____
Date: _____

NOTES:
*ALL DEMENSIONS ARE FEET-INCHES- SIXTEENTHS
*DO NOT CUT OR ALTER TRUSSES IN ANY WAY
*ONLY TRUSS TO TRUSS CONNECTIONS SUPPLIED WITH TRUSS PACKAGES

*NO BACKCHARGES will be accepted

19 LUMBER INC.
25221 SE Hwy 19
Old Town,FL 32680
P:(352)469-5008
19Lumberinc@gmail.com

B1 BCSI-B1 SUMMARY SHEET - GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES B1

Spans over 60' may require complex permanent bracing. Please always consult a Registered Design Professional.

W A R N I N G !

General Notes

Trusses are not marked in any way to identify the frequency or location of temporary lateral restraint and diagonal bracing. Follow the recommendations for handling, installing and temporary restraining and bracing of trusses. Refer to BCSI – Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses*** for more detailed information.

Truss Design Drawings may specify locations of permanent lateral restraint or reinforcement for individual truss members. Refer to the BCSI-B3*** for more information. All other permanent bracing design is the responsibility of the building designer.

Notas Generales

*Los trusses no están marcados de ningún modo que identifique la frecuencia o localización de restricción lateral y arriostre diagonal temporales. Use las recomendaciones de manejo, instalación, restricción y arriostre temporal de los trusses. Vea el folleto BCSI – Guía de Buena Práctica para el Manejo, Instalación, Restricción y Arriostre de los Trusses de Madera Conectados con Placas de Metal*** para información más detallada.*

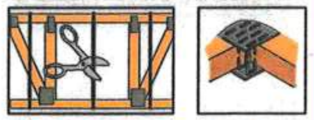
*Los dibujos de diseño de los trusses pueden especificar las localizaciones de restricción lateral permanente o refuerzo en los miembros individuales del truss. Vea la hoja resumen BCSI-B3*** para más información. El resto de los diseños de arriostres permanentes son la responsabilidad del diseñador del edificio.*

WARNING The consequences of improper handling, erecting, installing, restraining and bracing can result in a collapse of the structure, or worse, serious personal injury or death.

¡ADVERTENCIA! El resultado de un manejo, levantamiento, instalación, restricción y arrisotre incorrecto puede ser la caída de la estructura o aún peor, heridos o muertos.

CAUTION Exercise care when removing banding and handling trusses to avoid damaging trusses and prevent injury. Wear personal protective equipment for the eyes, feet, hands and head when working with trusses.

¡CAUTELA! Utilice cautela al quitar las ataduras o los pedazos de metal de sujetar para evitar daño a los trusses y prevenir la herida personal. Lleve el equipo protectivo personal para ojos, pies, manos y cabeza cuando trabaja con trusses.



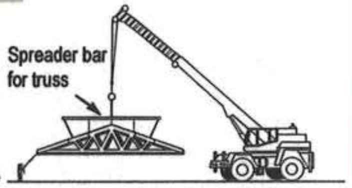
CAUTION Use special care in windy weather or near power lines and airports.

¡CAUTELA! Utilice cuidado especial en días ventosos o cerca de cables eléctricos o de

Handling — *Manejo*

NOTICE Avoid lateral bending.

Evite la flexión lateral.

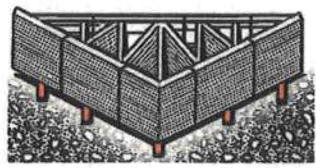


NOTICE The contractor is responsible for properly receiving, unloading and storing the trusses at the jobsite. Unload trusses to smooth surface to prevent damage.

El contratista tiene la responsabilidad de recibir, descargar y almacenar adecuadamente los trusses en la obra. Descargue los trusses en la tierra liso para prevenir el daño.

Use proper rigging and hoisting equipment.

Use equipo apropiado para levantar e improvisar.



Trusses may be unloaded directly on the ground at the time of delivery or stored temporarily in contact with the ground after delivery. If trusses are to be stored for more than one week, place blocking of sufficient height beneath the stack of trusses at 8' (2.4 m) to 10' (3 m) on-center (o.c.).

Los trusses pueden ser descargados directamente en el suelo en aquel momento de entrega o almacenados temporalmente en contacto con el suelo después de entrega. Si los trusses estarán guardados para más de una semana, ponga bloqueando de altura suficiente detrás de la pila de los trusses a 8 hasta 10 pies en centro (o.c.).

For trusses stored for more than one week, cover bundles to protect from the environment.

Para trusses guardados por más de una semana, cubra los paquetes para protegerlos del ambiente.

Refer to BCSI*** for more detailed information pertaining to handling and jobsite storage of trusses.

*Vea el folleto BCSI*** para información más detallada sobre el manejo y almacenado de los trusses en área de trabajo.*

DO NOT store unbraced bundles upright.

***NO** almacene verticalmente los trusses sueltos.*

DO NOT store on uneven ground.

***NO** almacene en tierra desigual.*

Hoisting and Placement of Truss Bundles
Recomendaciones Para Levantar Paquetes de Trusses

DON'T overload the crane.

***NO** sobrecargue la grúa.*

NEVER use banding to lift a bundle.

***NUNCA** use las ataduras para levantar un paquete.*

A single lift point may be used for bundles of top chord pitch trusses up to 45' (13.7 m) and parallel chord trusses up to 30' (9.1 m). Use at least two lift points for bundles of top chord pitch trusses up to 60' (18.3 m) and parallel chord trusses up to 45' (13.7 m). Use at least three lift points for bundles of top chord pitch trusses >60' (18.3m) and parallel chord trusses >45' (13.7 m).

Puede usar un solo lugar de levantar para paquetes de trusses de la cuerda superior hasta 45' y trusses de cuerdas paralelas de 30' o menos. Use por lo menos dos puntos de levantar con grupos de trusses de cuerda superior inclinada hasta 60' y trusses de cuerdas paralelas hasta 45'. Use por lo menos dos puntos de levantar con grupos de trusses de cuerda superior inclinada mas de 60' y trusses de cuerdas paralelas mas de 45'.

WARNING Do not overload supporting structure with truss bundle.

¡ADVERTENCIA! No sobrecargue la estructura apoyada con el paquete de trusses.

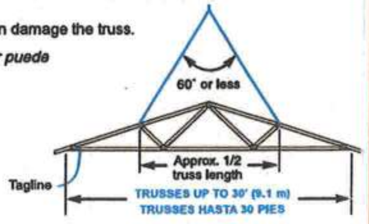
Place truss bundles in stable position.

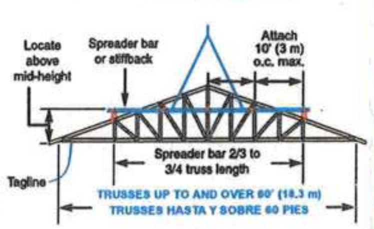
Puse paquetes de trusses en una posición estable.

Mechanical Hoisting Recommendations for Single Trusses
Recomendaciones Para Levantar Trusses Individuales

NOTICE Using a single pick-point at the peak can damage the truss.

El uso de un solo lugar en el pico para levantar pueda hacer daño al truss.





Hold each truss in position with the erection equipment until top chord temporary lateral restraint is installed and the truss is fastened to the bearing points.

Sostenga cada truss en posición con equipo de grúa hasta que la restricción lateral temporal de la cuerda superior esté instalado y el truss está asegurado en los soportes.

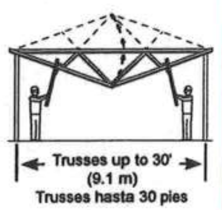
Installation of Single Trusses by Hand
Recommendacciones de Levantamiento de Trusses Individuales Por La Mano

Trusses 20' (6.1 m) or less, support near peak.

Soporte cerca al pico los trusses de 20 pies o menos.

Trusses 30' (9.1 m) or less, support at quarter points.

Soporte de los cuartos de tramo los trusses de 30 pies o menos.



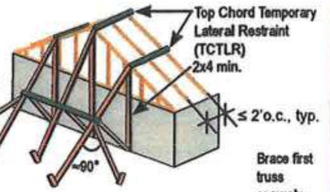
Temporary Restraint & Bracing
Restricción y Arriostre Temporal

NOTICE Refer to BCSI-B2*** for more information.

*Vea el resumen BCSI-B2*** para más información.*

Locate ground braces for first truss directly in line with all rows of top chord temporary lateral restraint (see table in the next column).

Coloque los arriostres de tierra para el primer truss directamente en linea con cada una de las filas de restricción lateral temporal de la cuerda superior (vea la tabla en la próxima columna).

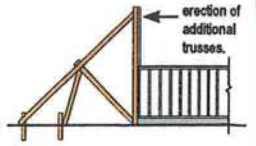


DO NOT walk on unbraced trusses.

***NO** camine en trusses sueltos.*

DO NOT stand on truss overhangs until Structural Sheathing has been applied to the truss and overhangs.

***NO** se pare en voladizos cerchas hasta Revestimiento estructural ha sido aplicado a la armadura y voladizos.*



Steps to Setting Trusses
Las Medidas de la Instalación de los Trusses

1) Install ground bracing. **2)** Set first truss and attach securely to ground bracing. **3)** Set next 4 trusses with short member temporary lateral restraint (see below). **4)** Install top chord diagonal bracing (see below). **5)** Install web member plane diagonal bracing to stabilize the first five trusses (see below). **6)** Install bottom chord temporary lateral restraint and diagonal bracing (see below). **7)** Repeat process with groups of four trusses until all trusses are set.

***1)** Instale los arriostres de tierra. **2)** Instale el primero truss y ate seguramente al arriostre de tierra. **3)** Instale los próximos 4 trusses con restricción lateral temporal de miembro corto (vea abajo). **4)** Instale el arriostre diagonal de la cuerda superior (vea abajo). **5)** Instale arriostre diagonal para los planos de los miembros secundarios para estabilice los primeros cinco trusses (vea abajo). **6)** Instale la restricción lateral temporal y arriostre diagonal para la cuerda inferior (vea abajo). **7)** Repita éste procedimiento en grupos de cuatro trusses hasta que todos los trusses estén instalados.*

NOTICE Refer to BCSI-B2*** for more information.

*Vea el resùmen BCSI-B2*** para más información.*

Restraint/Bracing for All Planes of Trusses
Restricción/Arriostre Para Todos Planos de Trusses

Minimum lumber used for lateral restraint and diagonal bracing is 2x4 stress-graded lumber. Attach to each truss with at least 2-10d (0.128x3"), 2-12d (0.128x3.25") or 2-16d (0.131x3.5") nails.

La madera 2x4 clasificada por estrés es la madera mínima utilizada para restricción lateral y arriostramiento diagonal. Atarlas a cada braguero con al mínimo 2 clavos 10d (0.128x3"), 12d (0.128x3.25") o 16d (0.131x3.5").

This restraint and bracing method is for all trusses except 3x2 and 4x2 parallel chord trusses (PCTs). See top of next column for temporary restraint and bracing of PCTs.

Este método de restricción y arriostre es para todo trusses excepto trusses de cuerdas paralelas (PCTs) 3x2 y 4x2. Vea la parte superior de la columna para la restricción y arriostre temporal de PCTs.

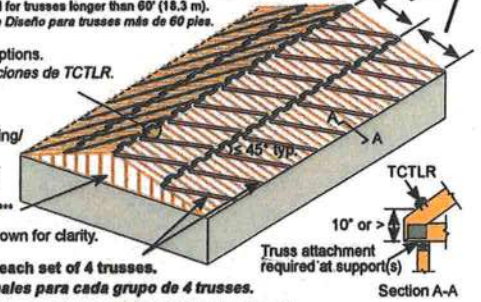
1) TOP CHORD — *CUERDA SUPERIOR*

Truss Span *Longitud de Tramo*	Top Chord Temporary Lateral Restraint (TCTLR) Spacing *Espaciamiento del Arriostre Temporal de la Cuerda Superior*
Up to 30' (9.1 m)	10' (3 m) o.c. max.
30' (9.1 m) – 45' (13.7 m)	8' (2.4 m) o.c. max.
45' (13.7 m) – 60' (18.3 m)	6' (1.8 m) o.c. max.
60' (18.3 m) – 80' (24.4 m)*	4' (1.2 m) o.c. max.

*Consult a Registered Design Professional for trusses longer than 60' (18.3 m).
**Consulte a un Professional Registrado de Diseño para trusses más de 60 pies.*

See BCSI-B2*** for TCTLR options.
*Vea el BCSI-B2*** para las opciones de TCTLR.*

NOTICE Refer to BCSI-B3*** for Gable End Frame restraint/bracing/reinforcement information.
*Para información sobre restricción/arriostre/refuerzo para Armazones Hastiales vea el resumen BCSI-B3****



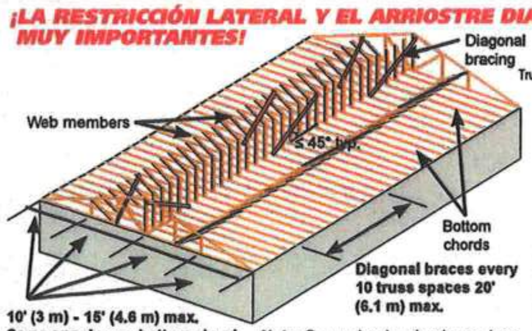
Note: Ground bracing not shown for clarity.

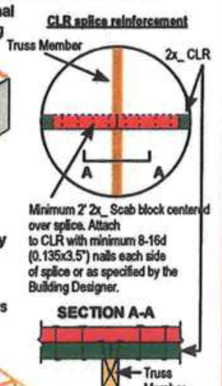
Repeat diagonal braces for each set of 4 trusses.
Repita los arrisotres diagonales para cada grupo de 4 trusses.

2) WEB MEMBER PLANE — *PLANO DE LOS MIEMBROS SECUNDARIOS*

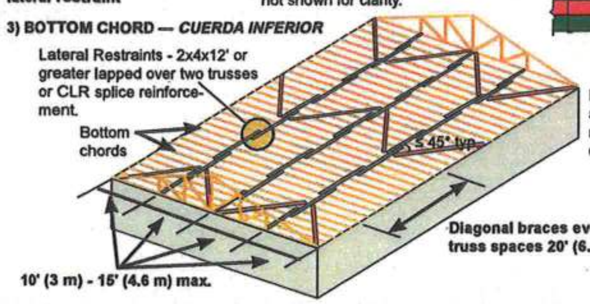
NOTICE **LATERAL RESTRAINT & DIAGONAL BRACING ARE VERY IMPORTANT**

¡LA RESTRICCIÓN LATERAL Y EL ARRIOSTRE DIAGONAL SON MUY IMPORTANTES!





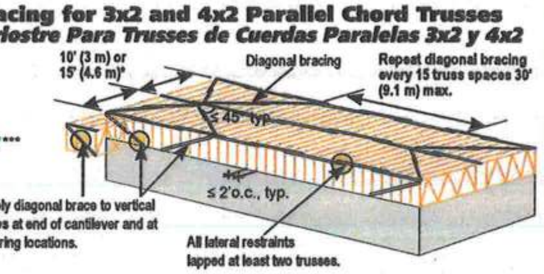
3) BOTTOM CHORD — *CUERDA INFERIOR*



Restraint & Bracing for 3x2 and 4x2 Parallel Chord Trusses
Restricción y Arriostre Para Trusses de Cuerdas Paralelas 3x2 y 4x2

NOTICE Refer to BCSI-B7*** for more information.

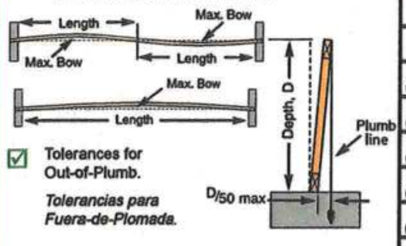
Vea el resumen BCSI-B7*** para más información.



*Top chord temporary lateral restraint spacing shall be 10' (3 m) o.c. max. for 3x2 chords and 15' (4.6 m) o.c. for 4x2 chords.

Installing — *Instalación*

Tolerances for Out-of-Plane.
Tolerancias para Fuera-de-Plano.



Tolerances for Out-of-Plumb.

Tolerancias para Fuera-de-Plomada.

Out-of-Plumb	
D/50	D (ft.)
1/4" (6 mm)	1' (0.3 m)
1/2" (13 mm)	2' (0.6 m)
3/4" (19 mm)	3' (0.9 m)
1" (25 mm)	4' (1.2 m)
1-1/4" (32 mm)	5' (1.5 m)
1-1/2" (38 mm)	6' (1.8 m)
1-3/4" (45 mm)	7' (2.1 m)
2" (51 mm)	≥8' (≥2.4 m)

Out-of-Plane	
Max. Bow	Truss Length
3/4" (19 mm)	12.5' (3.8 m)
7/8" (22 mm)	14.6' (4.5 m)
1" (25 mm)	16.7' (5.1 m)
1-1/8" (29 mm)	18.8' (5.7 m)
1-1/4" (32 mm)	20.8' (6.3 m)
1-3/8" (35 mm)	22.9' (7.0 m)
1-1/2" (38 mm)	25.0' (7.6 m)
1-3/4" (45 mm)	29.2' (8.9 m)
2" (51 mm)	≥33.3' (10.1 m)

Construction Loading
Carga De Construcción

DO NOT proceed with construction until all lateral restraint and bracing is securely and properly in place.

***NO** proceda con la construcción hasta que todas las restricciones laterales y los arriostres estén colocados en forma apropiada y segura.*

DO NOT exceed maximum stack heights. Refer to BCSI-B4*** for more information.

NO** exceda las alturas máximas de montón. Vea el resumen BCSI-B4 para más información.*

Maximum Stack Height for Material on Trusses	
Material	Height
Gypsum Board	12" (305 mm)
Plywood or OSB	16" (406 mm)
Asphalt Shingles	2 bundles
Concrete Block	8" (203 mm)
Clay Tile	3-4 tiles high

NEVER stack materials near a peak, at mid-span, on cantilevers or overhangs.
***NUNCA** apile los materiales cerca de un pica, a centro de la luz, en cantilevers o aleros.*

DO NOT overload small groups or single trusses.
***NO** sobrecargue pequeños grupos o trusses individuales.*

Place loads over as many trusses as possible.
Coloque las cargas sobre tantos trusses como sea posible.

Position loads over load bearing walls.
Coloque las cargas sobre las paredes soportantes.

Truss bracing not shown for clarity.

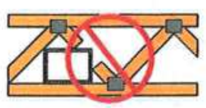
Alterations — *Alteraciones*

NOTICE Refer to BCSI-B5.***

*Vea el resumen BCSI-B5.****

DO NOT cut, alter, or drill any structural member of a truss unless specifically permitted by the truss design drawing.

***NO** corte, altere o perfore ningún miembro estructural de un truss, a menos que esté específicamente permitido en el dibujo del diseño del truss.*



NOTICE Trusses that have been overloaded during construction or altered without the Truss Manufacturer's prior approval may render the Truss Manufacturer's limited warranty null and void.

Trusses que se han sobrecargado durante la construcción o han sido alterados sin la autorización previa del Fabricante de Trusses, pueden hacer nulo y sin efecto la garantía limitada del Fabricante de Trusses.

***Contact the Component Manufacturer for more information or consult a Registered Design Professional for assistance.
To view a non-printing PDF of this document, visit sbcindustry.com/b1.

NOTE: The truss manufacturer and truss designer rely on the presumption that the contractor and crane operator (if applicable) are professionals with the capability to undertake the work they have agreed to do on any given project. If the contractor believes it needs assistance in some aspect of the construction project, it should seek assistance from a competent party. The methods and procedures outlined in this document are intended to ensure that the overall construction techniques employed will put the trusses into place SAFELY. These recommendations for handling, installing, restraining and bracing trusses are based upon the collective experience of leading personnel involved with truss design, manufacture and installation, but must, due to the nature of responsibilities involved, be presented only as a GUIDE for use by a qualified building designer or contractor. It is not intended that these recommendations be interpreted as superior to the building designer's design specification for handling, installing, restraining and bracing trusses and it does not preclude the use of other equivalent methods for restraining/bracing and providing stability for the walls, columns, floors, roofs and all the interrelated structural building components as determined by the contractor. Thus, SBCA and TPI expressly disclaim any responsibility for damages arising from the use, application, or reliance on the recommendations and information contained herein.

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Vanos más de 60 pies pueden requerir arriostre permanente complejo. Por favor, siempre consulte a un Profesional Registrado de Diseño.