

Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

Builder: DRB HOMES
Model: 67 FaNC
CALLAWAY 1



# THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

Apprved by:	Date:
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JMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN.

BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS

Qty **THA422** Connector Prod uct Manuf

5

Simpson

**General Notes:** 

\*\* CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER



\*\* GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

\*\* DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

\*\* TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

3/29/2024

Designer:
ND

67 FARM AT NEILLS CREEK CALLAWAY 1

COMPONENT **PLACEMENT PLAN** 



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179 Drive: Madison, WI 53179

Revi	Revisions
00/00/00	Name

DRB HOMES

67 FARM AT NEILLS CREEK CALLAWAY 1

COMPONENT **PLACEMENT PLAN** 

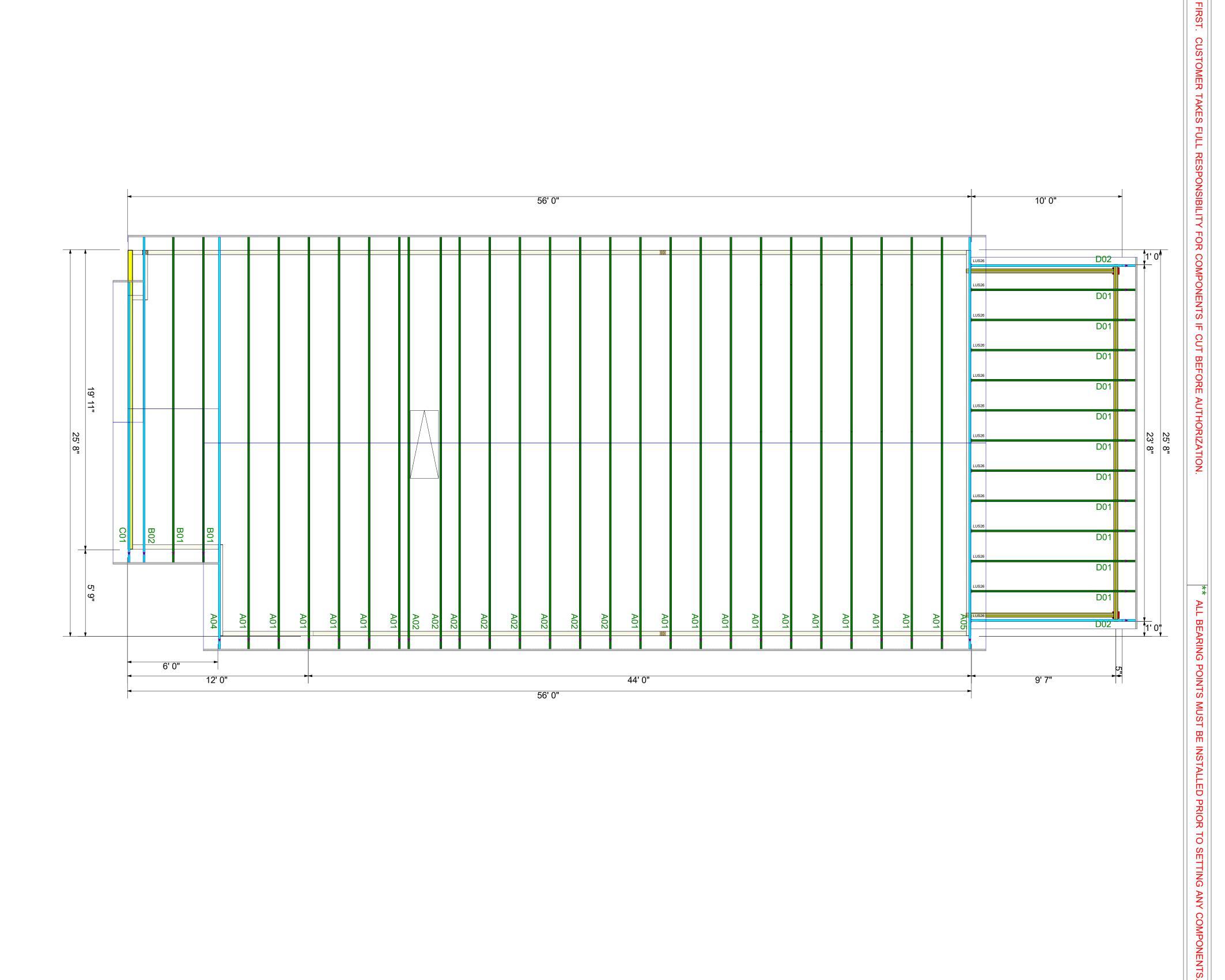


THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

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General Notes:

\*\* CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER



\*\* TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

\*\* DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

Drive: Madison, WI 53179



#### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: 24030159-B

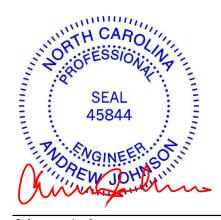
67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4 GLH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I64576599 thru I64576625

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



April 1,2024

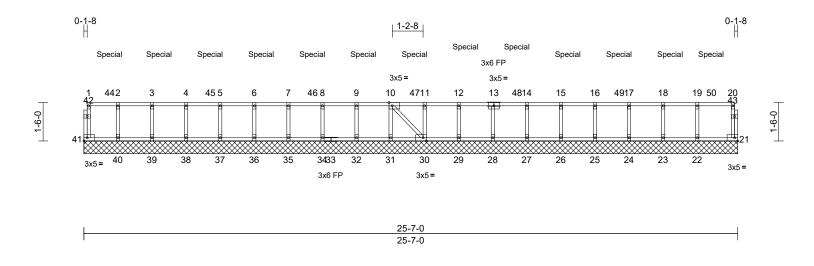
Johnson, Andrew

**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.

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	FW25	Floor Supported Gable	1	1	l64576599 Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S. Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:49 ID: vwy86Z18CIRtikWJH9GKgpyyBw9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y)	Plate Offsets (X, Y): [10:0-1-8,Edge], [30:0-1-8,Edge]											
Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.82	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 119 lb	FT = 20%F, 11%E
LUMBER		•	FORCES	(lb) - Maximum C	ompressi	on/Maximum		7) This	s truss is	s desig	ned in accordanc	e with the 2018

LUMBER			. 0.	(OLO	(ib) - Maximum Compression/Maximum	,,	This trass is designed in decordance with the 2010
TOP CHORD	2x4 SP N	o.2(flat)			Tension		International Residential Code sections R502.11.1 and
BOT CHORD	2x4 SP N	o.2(flat)	TOF	CHORD	1-41=-102/26, 20-21=-156/42, 1-2=-5/1,		R802.10.2 and referenced standard ANSI/TPI 1.
WEBS	2x4 SP N	o.3(flat)			2-3=-5/1, 3-4=-5/1, 4-5=-5/1, 5-6=-5/1,	8)	Recommend 2x6 strongbacks, on edge, spaced at
OTHERS	2x4 SP N	` ,			6-7=-5/1, 7-8=-5/1, 8-9=-5/1, 9-10=-5/1,		10-00-00 oc and fastened to each truss with 3-10d
BRACING		()			10-11=-1/1, 11-12=-1/1, 12-14=-7/2,		(0.131" X 3") nails. Strongbacks to be attached to walls
TOP CHORD	Cturetrue	ad abaathing disastly applied as			14-15=-7/2, 15-16=-7/2, 16-17=-7/2,		at their outer ends or restrained by other means.
TOP CHORD		wood sheathing directly applied or			17-18=-7/2, 18-19=-7/2, 19-20=-7/2	9)	Hanger(s) or other connection device(s) shall be
DOT OLIODD		ourlins, except end verticals.	BO	T CHORD	40-41=-1/5, 39-40=-1/5, 38-39=-1/5.	- /	provided sufficient to support concentrated load(s) 504
BOT CHORD	•	ng directly applied or 10-0-0 oc			37-38=-1/5, 36-37=-1/5, 35-36=-1/5,		lb down and 157 lb up at 1-0-4, 503 lb down and 158 lb
	bracing,				34-35=-1/5, 32-34=-1/5, 31-32=-1/5,		up at 2-11-8, 503 lb down and 158 lb up at 4-11-8, 503
	6-0-0 oc t	oracing: 29-30,28-29.			30-31=-1/5, 29-30=-1/1, 28-29=-1/1,		lb down and 158 lb up at 6-11-8, 503 lb down and 158
REACTIONS	(size)	21=25-7-0, 22=25-7-0, 23=25-7-0,			27-28=-2/7, 26-27=-2/7, 25-26=-2/7,		lb up at 8-11-8, 503 lb down and 158 lb up at 10-11-8,
		24=25-7-0, 25=25-7-0, 26=25-7-0,			24-25=-2/7, 23-24=-2/7, 22-23=-2/7,		503 lb down and 158 lb up at 12-11-8, 503 lb down and
		27=25-7-0, 28=25-7-0, 29=25-7-0,			21-22=-2/7		158 lb up at 14-11-8, 503 lb down and 158 lb up at
		30=25-7-0, 31=25-7-0, 32=25-7-0,	WE	RS	2-40=-484/134. 3-39=-423/116.		16-11-8, 503 lb down and 158 lb up at 18-11-8, 503 lb
		34=25-7-0, 35=25-7-0, 36=25-7-0,	**	БО	4-38=-215/43, 5-37=-451/125,		down and 158 lb up at 20-11-8, and 503 lb down and
		37=25-7-0, 38=25-7-0, 39=25-7-0,			6-36=-418/115. 7-35=-216/43.		158 lb up at 22-11-8, and 504 lb down and 157 lb up at
		40=25-7-0, 41=25-7-0			8-34=-451/125, 9-32=-418/115,		24-6-12 on top chord. The design/selection of such
	Max Uplift	21=-39 (LC 8), 22=-118 (LC 8),			10-31=-212/43. 11-30=-450/125.		connection device(s) is the responsibility of others.
		23=-96 (LC 8), 24=-123 (LC 8),				40)	
		25=-37 (LC 8), 26=-110 (LC 8),			12-29=-421/115, 13-28=-219/44,	10)	In the LOAD CASE(S) section, loads applied to the face
		27=-118 (LC 8), 28=-39 (LC 8),			14-27=-444/123, 15-26=-421/116,		of the truss are noted as front (F) or back (B).
		29=-110 (LC 8), 30=-120 (LC 8),			16-25=-213/42, 17-24=-463/129,	LO	AD CASE(S) Standard
		31=-37 (LC 8), 32=-109 (LC 8),			18-23=-370/101, 19-22=-459/124, 10-30=-6/1		WALL CAPOU
		34=-120 (LC 8), 35=-38 (LC 8),	NO	TES			a thomas
		36=-109 (LC 8), 37=-120 (LC 8),	1)	Unbalance	d floor live loads have been considered for		SO SESSION AND
		38=-38 (LC 8), 39=-111 (LC 8),		this design	l.		Maria Charles
		40=-128 (LC 8), 41=-24 (LC 8)	2)	All plates a	are 1.5x3 MT20 unless otherwise indicated.		Covo de la companya della companya della companya de la companya della companya d
	Max Grav	21=160 (LC 3), 22=469 (LC 3),	3)	Gable requ	uires continuous bottom chord bearing.		3 14
	max Olav	23=378 (LC 3), 24=472 (LC 3),			e fully sheathed from one face or securely		E : SEAL : E
		25=222 (LC 6), 26=430 (LC 3),			ainst lateral movement (i.e. diagonal web).		-
		27=453 (LC 3), 28=228 (LC 6),			Is spaced at 1-4-0 oc.		= : 45844 : =
		21-400 (LC 0), 20-220 (LC 0),		NI/A			24 March 100 C

Continued on page 2

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

N/A

6)

29=430 (LC 3), 30=463 (LC 3),

31=221 (LC 6), 32=427 (LC 3), 34=460 (LC 3), 35=225 (LC 6), 36=427 (LC 3), 37=460 (LC 3), 38=224 (LC 6), 39=431 (LC 3), 40=493 (LC 3), 41=105 (LC 6)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 rev. 172/2023 BEFORE USE.

Design valid for use only with MITE&® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \_ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



April 1,2024

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	FW25	Floor Supported Gable	1	1	l64576599 Job Reference (optional)

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Fri Mar 29 10:49:49 ID: vwy86Z18CIRtikWJH9GKgpyyBw9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 21-41=-7, 1-20=-67 Concentrated Loads (lb)

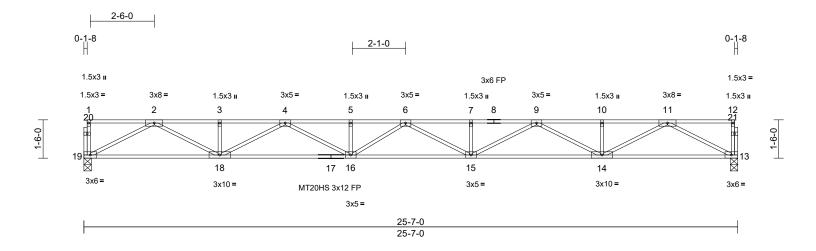
Vert: 3=-186 (B), 6=-186 (B), 9=-186 (B), 12=-186 (B), 15=-186 (B), 18=-186 (B), 44=-187 (B), 45=-186 (B), 46=-186 (B), 47=-186 (B), 48=-186 (B), 49=-186 (B), 50=-187 (B)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F01	Floor	14	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:47  $ID: kw0\_lcw3LxOch2qP7ECb61yyC0k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f$ 



Scale = 1:45.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.51	15-16	>598	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.71	15-16	>429	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.11	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 131 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

# BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 13=0-3-8, 19=0-3-8

Max Grav 13=925 (LC 1), 19=925 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-19=-69/0, 12-13=-69/0, 1-2=-3/0, 2-3=-2815/0, 3-4=-2815/0, 4-5=-4147/0,

5-6=-4147/0, 6-7=-4153/0, 7-9=-4153/0, 9-10=-2815/0, 10-11=-2815/0, 11-12=-3/0

**BOT CHORD** 18-19=0/1609, 16-18=0/3648, 15-16=0/4284,

14-15=0/3646, 13-14=0/1609

**WEBS** 11-13=-1813/0, 2-19=-1813/0, 11-14=0/1369,

2-18=0/1369, 10-14=-163/0, 3-18=-162/0, 9-14=-943/0, 4-18=-945/0, 9-15=0/576, 4-16=0/567, 7-15=-171/0, 5-16=-150/0,

6-15=-148/0, 6-16=-162/0

# NOTES

- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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

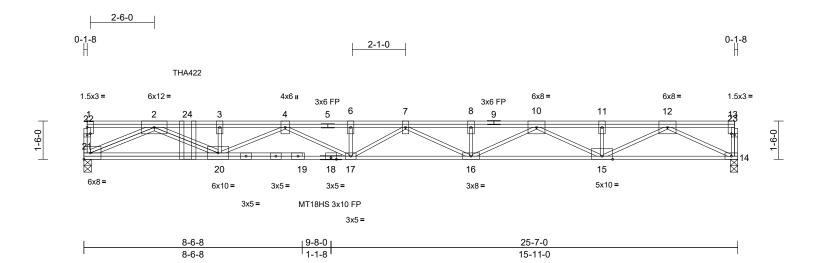
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F02	Floor Girder	1	1	l64576601 Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S. Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48 ID:?\_VDjhKJAHokvDpP4IIV?HyyByL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:45.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.49	16-17	>616		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.93	Vert(CT)	-0.69	16-17	>442	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 187 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) \*Except\* 1-5,9-1:2x4 SP

2400F 2.0E(flat)

2x4 SP 2400F 2.0E(flat) \*Except\* 21-19:2x4 **BOT CHORD** 

SP No.2(flat) WEBS 2x4 SP No.3(flat)

**OTHERS** 

**BRACING** 

2x4 SP No.3(flat)

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 14=0-3-8, 21=0-3-8 (size)

Max Grav 14=1116 (LC 1), 21=1964 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

TOP CHORD 1-21=0/7, 13-14=-76/0, 1-2=0/0, 2-3=-6279/0,

3-4=-6279/0, 4-6=-6509/0, 6-7=-6509/0, 7-8=-5853/0, 8-10=-5853/0, 10-11=-3696/0,

11-12=-3696/0, 12-13=-4/0

BOT CHORD 20-21=0/4069, 17-20=0/6400, 16-17=0/6302, 15-16=0/4922, 14-15=0/2053

**WEBS** 12-14=-2291/0, 12-15=0/1847, 11-15=-178/0,

10-15=-1377/0, 10-16=0/1045, 8-16=-203/0, 6-17=-229/0, 7-16=-505/0, 2-20=0/2459, 3-20=-932/0, 4-20=-134/0, 4-17=0/123.

7-17=0/243, 2-21=-4508/0

#### NOTES

- All plates are MT20 plates unless otherwise indicated. 1)
- All plates are 3x6 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 18 = 11%
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 14-21=-7, 1-13=-67

Concentrated Loads (lb)

Vert: 24=-1231 (F)



April 1,2024

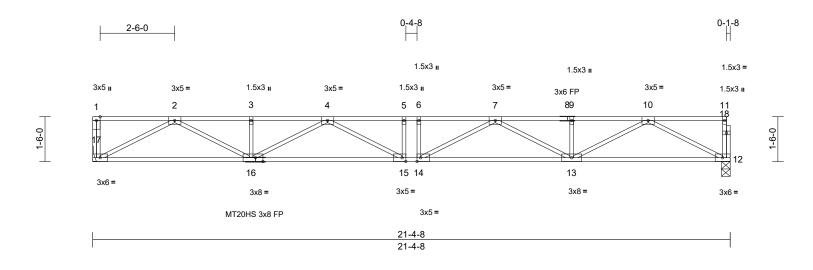
Page: 1



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F03	Floor	3	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48 

Page: 1



Scale = 1:38.6

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.27	14-15	>936	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.81	Vert(CT)	-0.37	13-14	>678	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 111 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

#### **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 12=0-3-8, 17= Mechanical (size) Max Grav 12=770 (LC 1), 17=775 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-70/0, 11-12=-69/0, 1-2=0/0,

2-3=-2235/0, 3-4=-2235/0, 4-5=-2992/0, 5-6=-2992/0, 6-7=-2992/0, 7-9=-2235/0,

9-10=-2235/0, 10-11=-3/0

**BOT CHORD** 15-17=0/2780, 14-15=0/2992, 13-14=0/2780,

12-13=0/1315

WEBS 10-12=-1481/0. 2-17=-1486/0. 10-13=0/1044. 2-16=0/1043, 9-13=-163/0, 3-16=-162/0,

7-13=-618/0, 4-16=-618/0, 7-14=-80/425 4-15=-80/425, 5-15=-115/0, 6-14=-115/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

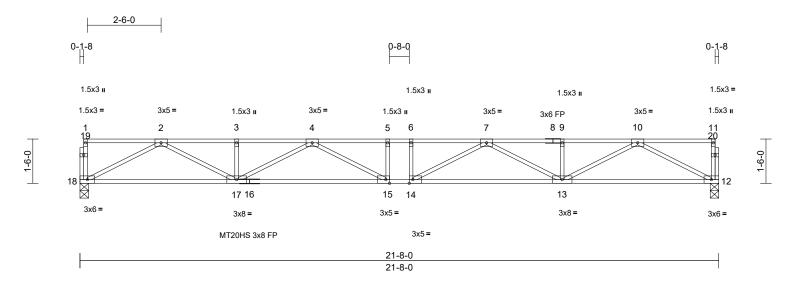


April 1,2024



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F04	Floor	5	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48  Page: 1



Scale = 1:39.1

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.29	14-15	>901		MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.39	15-17	>654	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 112 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

#### BRACING

TOP CHORD

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 12=0-3-8, 18=0-3-8 (size)

Max Grav 12=781 (LC 1), 18=781 (LC 1) **FORCES** 

(lb) - Maximum Compression/Maximum

1-18=-69/0, 11-12=-69/0, 1-2=-3/0, 2-3=-2276/0, 3-4=-2276/0, 4-5=-3069/0,

5-6=-3069/0, 6-7=-3069/0, 7-9=-2276/0,

9-10=-2276/0, 10-11=-3/0

**BOT CHORD** 17-18=0/1336, 15-17=0/2840, 14-15=0/3069,

13-14=0/2840, 12-13=0/1336

WEBS 10-12=-1504/0. 2-18=-1504/0. 10-13=0/1067.

2-17=0/1067, 9-13=-162/0, 3-17=-162/0, 7-13=-640/0, 4-17=-640/0, 7-14=-71/459, 4-15=-71/459, 5-15=-136/0, 6-14=-136/0

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

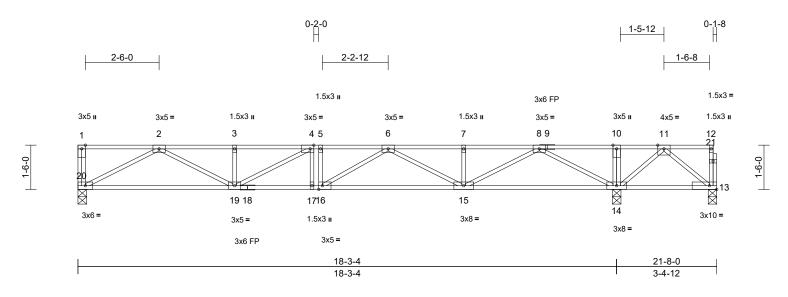


April 1,2024



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F05	Floor	1	1	I64576604 Job Reference (optional)

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Fri Mar 29 10:49:48  Page: 1



Scale = 1:39.1

Plate Offsets (X, Y): [4	:0-1-8,Edge], [16:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.10	17-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.14	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 117 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

**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) 13=0-3-8, 14=0-3-8, 20=0-3-8

Max Uplift 13=-620 (LC 3)

Max Grav 13=-67 (LC 4), 14=1558 (LC 1),

20=548 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-71/0, 12-13=-45/0, 1-2=0/0,

2-3=-1383/0, 3-4=-1383/0, 4-5=-1500/0, 5-6=-1500/0, 6-7=-718/0, 7-8=-718/0,

8-10=0/1515, 10-11=0/1515, 11-12=-2/0 **BOT CHORD** 19-20=0/883, 17-19=0/1500, 16-17=0/1500,

15-16=0/1276, 14-15=-227/0, 13-14=-772/0 WEBS 10-14=-158/0, 8-14=-1461/0, 2-20=-997/0,

8-15=0/1064, 2-19=0/567, 7-15=-171/0, 3-19=-177/0, 6-15=-634/0, 4-19=-265/92, 6-16=0/349, 4-17=-132/34, 5-16=-54/12,

11-13=0/1001, 11-14=-1058/0

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated. One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

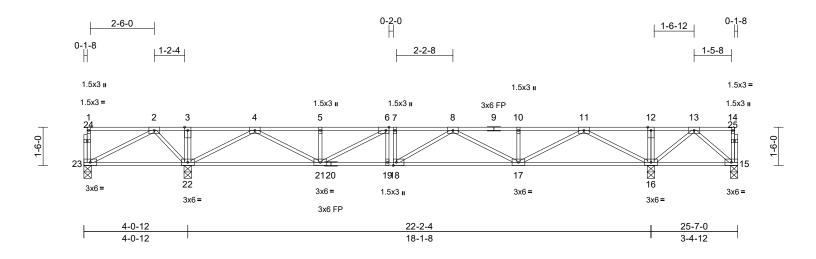


April 1,2024

Ī	Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
	24030159-B	F06	Floor	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S. Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48 ID:hCqk8\_Oyr7eRieafj9tzWYyyC\_r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, \	'): [	6:0-1-8,Edge],	[18:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.07	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.11	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 139 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

# **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) 15=0-3-8, 16=0-3-8, 22=0-3-8, 23=0-3-8

15=-475 (LC 6), 23=-349 (LC 6) Max Uplift 15=-25 (LC 5), 16=1303 (LC 4), 22=1198 (LC 3), 23=27 (LC 5) Max Grav

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-71/0, 14-15=-42/0, 1-2=-3/0,

2-3=0/1092, 3-4=0/1092, 4-5=-683/0 5-6=-683/0, 6-7=-1026/0, 7-8=-1026/0, 8-10=-645/0, 10-11=-645/0, 11-12=0/1174,

12-13=0/1174, 13-14=-2/0

BOT CHORD 22-23=-709/0, 21-22=-143/79, 19-21=0/1026, 18-19=0/1026, 17-18=0/996, 16-17=-134/1,

15-16=-567/0

3-22=-123/0, 12-16=-159/0, 11-16=-1225/0, 4-22=-1196/0, 11-17=0/831, 4-21=0/798, 10-17=-170/0. 5-21=-179/0. 8-17=-400/0. 6-21=-428/0, 8-18=-132/191, 6-19=-88/73,

7-18=0/26, 2-23=0/801, 2-22=-666/0,

13-16=-859/0, 13-15=0/752

#### NOTES

WEBS

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.

- 3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.
- One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 1,2024

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

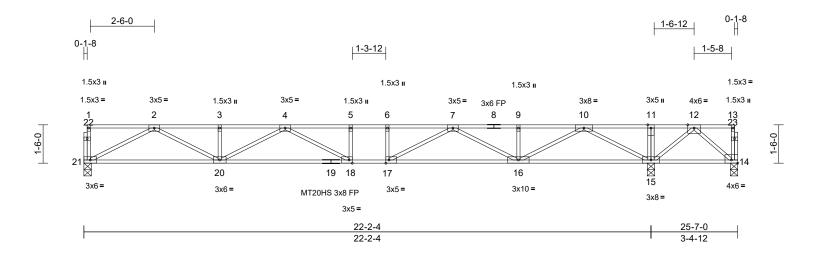
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F07	Floor	1	1	I64576606 Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48 

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [14:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC.	0.79	Vert(LL)	-0.27	18-20	>967		MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.39	18-20	>679		MT20113	244/190
		1				( - /					IVIIZU	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 133 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

# **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) 14=0-3-8, 15=0-3-8, 21=0-3-8

Max Uplift 14=-898 (LC 3)

14=-141 (LC 4), 15=1999 (LC 1), Max Grav

21=667 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-21=-68/0, 13-14=-42/0, 1-2=-3/0, 2-3=-1850/0, 3-4=-1850/0, 4-5=-2143/0,

5-6=-2143/0, 6-7=-2143/0, 7-9=-673/0, 9-10=-673/0, 10-11=0/2167, 11-12=0/2167,

12-13=-2/0

20-21=0/1122, 18-20=0/2201, 17-18=0/2143, **BOT CHORD** 

16-17=0/1539, 15-16=-572/0, 14-15=-1051/0

11-15=-165/0, 10-15=-1805/0, 2-21=-1264/0.

10-16=0/1408, 2-20=0/825, 9-16=-178/0, 3-20=-152/0, 7-16=-983/0, 4-20=-398/0,

7-17=0/738, 4-18=-246/230, 5-18=-77/42 6-17=-244/0, 12-14=0/1393, 12-15=-1518/0

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 898 lb uplift at joint

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 1,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

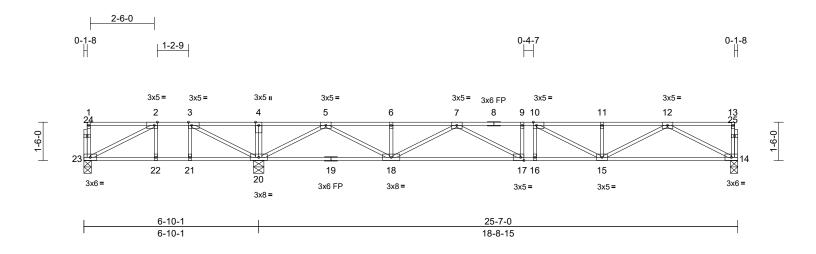
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F09	Floor	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48 ID:LbgzxLM8?ij5Jxi1PyJkmPyyBzb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.15	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.22	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

# **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) 14=0-3-8, 20=0-4-14, 23=0-3-8

Max Uplift 23=-97 (LC 4)

Max Grav 14=627 (LC 7), 20=1159 (LC 8),

23=193 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-98/0, 13-14=-69/0, 1-2=-4/0, 2-3=-193/314, 3-4=0/898, 4-5=0/898,

5-6=-1389/0, 6-7=-1389/0, 7-9=-1985/0,

9-10=-1985/0, 10-11=-1695/0, 11-12=-1695/0,

12-13=-3/0

BOT CHORD 22-23=-314/193, 21-22=-314/193,

20-21=-314/193, 18-20=0/543, 17-18=0/1858, 16-17=0/1985, 15-16=0/1985, 14-15=0/1041

WEBS 4-20=-162/0, 3-20=-780/0, 2-23=-212/355, 2-22=-110/0. 3-21=0/138. 5-20=-1401/0.

12-14=-1171/0, 5-18=0/1000, 12-15=0/742, 6-18=-166/0, 11-15=-181/0, 7-18=-568/0, 10-15=-415/5, 7-17=-73/323, 9-17=-59/6,

10-16=-87/73

#### NOTES

- Unbalanced floor live loads have been considered for
- All plates are 1.5x3 MT20 unless otherwise indicated.

- 3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

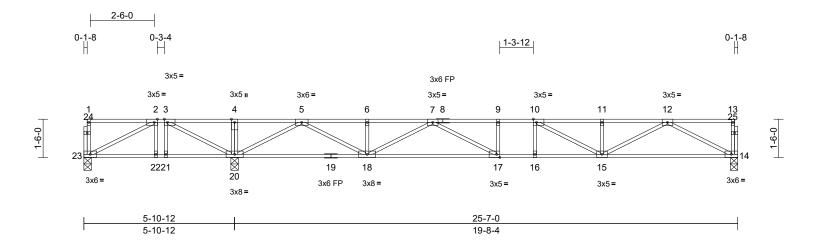


April 1,2024



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F11	Floor	5	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48 ID:eybdPkSXMrb5e?kNJwxNYuyyBzU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:45.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.15	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.22	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

# 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) 14=0-3-8, 20=0-3-8, 23=0-3-8

Max Uplift 23=-306 (LC 4)

14=608 (LC 7), 20=1406 (LC 1), Max Grav

23=99 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-89/0, 13-14=-70/0, 1-2=-4/0,

2-3=-26/694, 3-4=0/1536, 4-5=0/1536, 5-6=-923/0, 6-7=-923/0, 7-9=-1858/0,

9-10=-1858/0, 10-11=-1627/0, 11-12=-1627/0,

12-13=-3/0

BOT CHORD 22-23=-694/26, 21-22=-694/26,

20-21=-694/26, 18-20=-160/0, 17-18=0/1557, 16-17=0/1858, 15-16=0/1858, 14-15=0/1004 4-20=-171/0, 3-20=-1110/0, 2-23=-25/781,

2-22=-252/0, 3-21=0/272, 5-20=-1568/0, 12-14=-1130/0, 5-18=0/1161, 12-15=0/707, 6-18=-168/0, 11-15=-199/0, 7-18=-731/0,

10-15=-396/11, 7-17=0/461, 9-17=-133/0, 10-16=-70/56

# NOTES

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1

April 1,2024

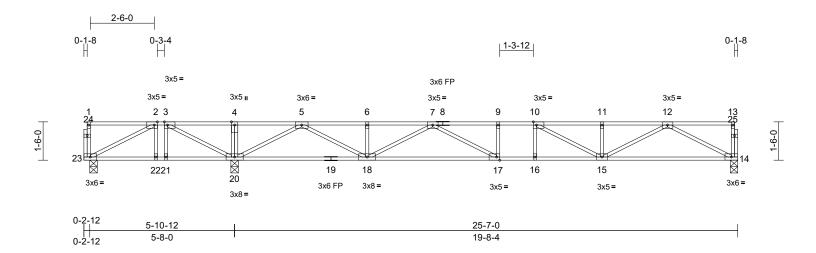
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F12	Floor	5	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:49 ID:T5yufnWlxhLFMwBXfB2nn9yyBzO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:45.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.15	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.22	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

# **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) 14=0-3-8, 20=0-3-8, 23=0-3-8

Max Uplift 23=-306 (LC 4)

14=608 (LC 7), 20=1406 (LC 1), Max Grav

23=99 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-89/0, 13-14=-70/0, 1-2=-4/0,

2-3=-26/694, 3-4=0/1536, 4-5=0/1536, 5-6=-923/0, 6-7=-923/0, 7-9=-1858/0,

9-10=-1858/0, 10-11=-1627/0, 11-12=-1627/0,

12-13=-3/0

BOT CHORD 22-23=-694/26, 21-22=-694/26,

20-21=-694/26, 18-20=-160/0, 17-18=0/1557, 16-17=0/1858, 15-16=0/1858, 14-15=0/1004

WFBS 4-20=-171/0, 3-20=-1110/0, 2-23=-25/781, 2-22=-252/0, 3-21=0/272, 5-20=-1568/0, 12-14=-1130/0, 5-18=0/1161, 12-15=0/707,

> 6-18=-168/0, 11-15=-199/0, 7-18=-731/0, 10-15=-396/11, 7-17=0/461, 9-17=-133/0,

10-16=-70/56

# NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 1,2024

Page: 1

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

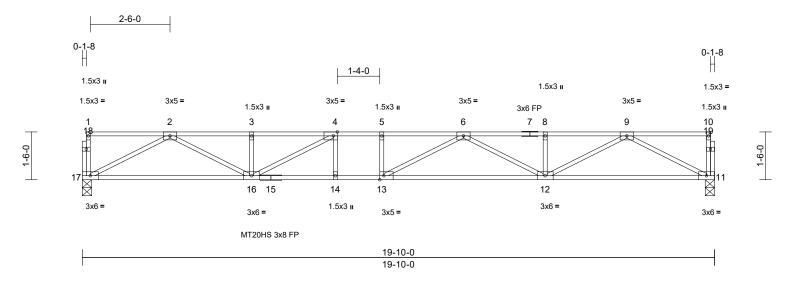
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



ſ	Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
	24030159-B	F13	Floor	3	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:49 ID: MtBPV9Zo?wshrYVIu07jy?yyBzK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:36.1

Plate Offsets (X, Y): [4:0-1-8,Edge], [13:0-1-8,Edge	:]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
-		-1 3					0.00	\ /			_	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.26	12-13	>907		MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.37	12-13	>631	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 102 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

# BRACING

TOP CHORD

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 11=0-3-8, 17=0-3-8 (size)

Max Grav 11=714 (LC 1), 17=714 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

1-17=-69/0, 10-11=-68/0, 1-2=-3/0, 2-3=-2013/0, 3-4=-2013/0, 4-5=-2518/0,

5-6=-2518/0, 6-8=-2025/0, 8-9=-2025/0,

9-10=-3/0

**BOT CHORD** 16-17=0/1206, 14-16=0/2518, 13-14=0/2518,

12-13=0/2464, 11-12=0/1210

9-11=-1363/0, 2-17=-1357/0, 9-12=0/924. WEBS 2-16=0/916, 8-12=-155/0, 3-16=-187/16,

6-12=-498/0, 4-16=-684/0, 6-13=-166/325,

4-14=-39/113, 5-13=-95/11

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

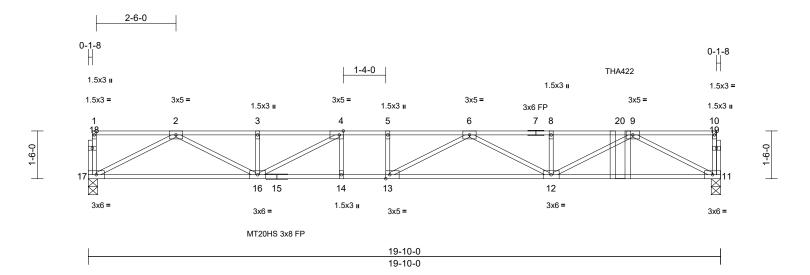


April 1,2024



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F14	Floor Girder	1	1	l64576611 Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:49 ID:nQgEN7t\_Flojel1p1wXHf3yyBwM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:36.1

Plate Offsets (X, Y)	[4:0-1-8,Edge],	[13:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.26	12-13	>889	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.38	12-13	>622	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 102 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

#### **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 11=0-3-8, 17=0-3-8 (size)

Max Grav 11=716 (LC 1), 17=714 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-69/0, 10-11=-68/0, 1-2=-3/0, 2-3=-2014/0, 3-4=-2014/0, 4-5=-2520/0,

5-6=-2520/0, 6-8=-2029/0, 8-9=-2029/0,

9-10=-3/0

**BOT CHORD** 16-17=0/1206, 14-16=0/2520, 13-14=0/2520,

12-13=0/2466, 11-12=0/1214

9-11=-1367/0, 2-17=-1358/0, 9-12=0/924. WEBS 2-16=0/917, 8-12=-156/0, 3-16=-186/16,

6-12=-497/0, 4-16=-694/0, 6-13=-175/316,

4-14=-37/116, 5-13=-92/13

#### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- 6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 16-8-4 from the left end to connect truss (es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 11-17=-7, 1-10=-67

Concentrated Loads (lb)

Vert: 20=-2 (F)



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April 1,2024

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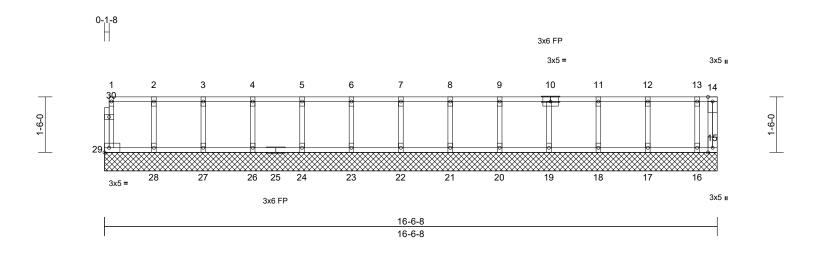
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Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	FW16	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:49 ID:ca1VeAxlr8YtMgUzNBehuKyyBwG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 78 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

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)

15=16-6-8, 16=16-6-8, 17=16-6-8, 18=16-6-8, 19=16-6-8, 20=16-6-8, 21=16-6-8, 22=16-6-8, 23=16-6-8, 24=16-6-8, 26=16-6-8, 27=16-6-8,

28=16-6-8, 29=16-6-8 15=16 (LC 1), 16=60 (LC 1), Max Grav

17=103 (LC 1), 18=95 (LC 1), 19=98 (LC 1), 20=100 (LC 1), 21=97 (LC 1), 22=98 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=99 (LC 1),

29=34 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

TOP CHORD

1-29=-32/0, 14-15=-7/0, 1-2=-3/0, 2-3=-3/0, 3-4=-3/0, 4-5=-3/0, 5-6=-3/0, 6-7=-3/0, 7-8=-3/0, 8-9=-3/0, 9-11=-5/0, 11-12=-5/0,

12-13=-5/0, 13-14=-5/0

**BOT CHORD** 28-29=0/3, 27-28=0/3, 26-27=0/3, 24-26=0/3, 23-24=0/3, 22-23=0/3, 21-22=0/3, 20-21=0/3,

19-20=0/3, 18-19=0/5, 17-18=0/5, 16-17=0/5,

15-16=0/5

2-28=-89/0, 3-27=-89/0, 4-26=-89/0, WEBS 5-24=-89/0, 6-23=-89/0, 7-22=-89/0,

8-21=-88/0 9-20=-91/0 10-19=-89/0 11-18=-86/0, 12-17=-93/0, 13-16=-63/0

- NOTES
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 1,2024

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

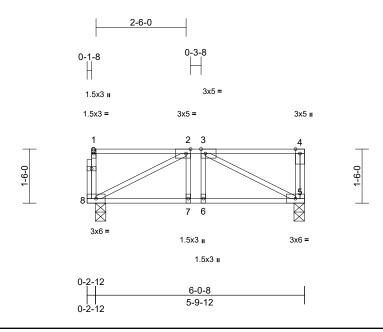
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Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F15	Floor	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:49 ID:3ooBbah4e?6G24GDU7I3M6yyBzA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32

		ı		1	-							
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.01	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.02	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 37 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

#### 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) 5=0-3-8, 8=0-3-8

Max Grav 5=212 (LC 1), 8=208 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-75/0, 4-5=-76/0, 1-2=-3/0, 2-3=-258/0, 3-4=0/0

**BOT CHORD** 7-8=0/258, 6-7=0/258, 5-6=0/258 WEBS 3-5=-290/0, 2-8=-287/0, 2-7=-58/86,

3-6=-62/82

#### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

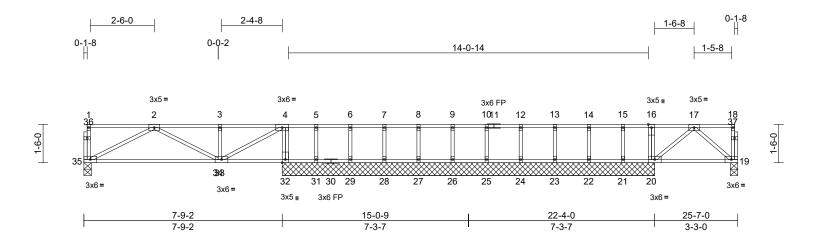


April 1,2024

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F08	Floor	1	1	I64576614 Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:48 ID:Px0oyr7DUsJnX0INnSTHUPyyBzu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.01	34-35	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.05	34-35	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	32	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 129 lb	FT = 20%F, 11%E

LUMBER TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 

2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

BRACING

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

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 34-35,33-34.

REACTIONS (size) 19=0-3-8, 20=14-6-14, 21=14-6-14, 22=14-6-14, 23=14-6-14, 24=14-6-14, 25=14-6-14, 26=14-6-14, 27=14-6-14, 28=14-6-14, 29=14-6-14,

31=14-6-14, 32=14-6-14, 35=0-3-8 Max Grav 19=103 (LC 4), 20=244 (LC 1), 21=215 (LC 3), 22=237 (LC 7), 23=230 (LC 3), 24=232 (LC 7), 25=231 (LC 3), 26=231 (LC 7),

27=232 (LC 3), 28=231 (LC 7), 29=238 (LC 3), 31=234 (LC 7), 32=416 (LC 1), 35=268 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-35=-68/0, 18-19=-40/0, 1-2=-3/0, 2-3=-342/0, 3-4=-342/0, 4-5=0/47, 5-6=0/47, 6-7=0/47, 7-8=0/47, 8-9=0/47, 9-10=0/47, 10-12=0/47, 12-13=0/47, 13-14=0/47,

14-15=0/47, 15-16=0/47, 16-17=0/47, 17-18=-2/0

BOT CHORD 34-35=0/357, 33-34=0/342, 32-33=-47/0,

31-32=-47/0, 29-31=-47/0, 28-29=-47/0, 27-28=-47/0, 26-27=-47/0, 25-26=-47/0, 24-25=-47/0, 23-24=-47/0, 22-23=-47/0,

21-22=-47/0, 20-21=-47/0, 19-20=-11/65

**WEBS** 4-32=-409/0, 16-20=-143/0, 5-31=-225/0,

6-29=-229/0, 7-28=-222/0, 8-27=-223/0, 9-26=-222/0, 10-25=-222/0, 12-24=-222/0, 13-23=-222/0, 14-22=-226/0, 15-21=-216/0, 2-35=-399/0, 2-34=-70/59, 3-33=-181/0, 4-33=0/440, 17-19=-84/14, 17-20=-123/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.

#### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 19-35=-7, 1-4=-67, 4-16=-167, 16-18=-67



April 1,2024

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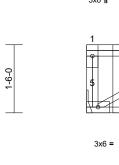


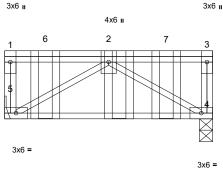
Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F17	Floor Girder	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:49 ID:I3uRdHC2WCX9ih2UVfa8bAyyByV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









4-7-0
4-7-0

Scale = 1:25.4

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.04	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 34 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) **WEBS** 

#### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=0-3-8, 5= Mechanical

Max Grav 4=1233 (LC 1), 5=1275 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

1-5=-429/0, 3-4=-387/0, 1-2=0/0, 2-3=0/0

TOP CHORD BOT CHORD 4-5=0/1372

**WEBS** 2-4=-1605/0, 2-5=-1605/0

#### NOTES

- 1) Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-7-8 oc max. starting at 0-10-12 from the left end to 3-6-12 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 4-5=-7, 1-3=-67 Concentrated Loads (lb)

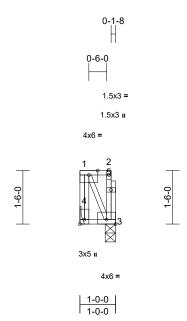
Vert: 2=-730 (B), 6=-730 (B), 7=-730 (B)



April 1,2024

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	F18	Floor	1	1	Job Reference (optional)

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Fri Mar 29 10:49:49 ID:RStLKPprRm9RYz8sENx6y0yyBwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.00	Vert(CT)	0.00	4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) **OTHERS** 

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

1-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3=0-3-8, 4= Mechanical Max Grav 3=24 (LC 1), 4=27 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-25/0, 2-3=-23/0, 1-2=-1/0

**BOT CHORD** 3-4=0/0 WFBS 1-3=0/2

# **NOTES**

- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 1,2024

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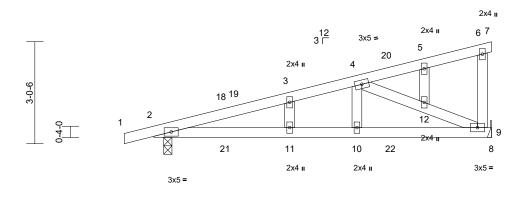


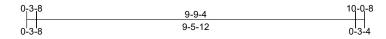
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4				
24030159-B	D02	Monopitch	2	1	Job Reference (optional)				

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:47 ID:ZnJFRgCc6s6nOiJ9wZ57UzzhJ4C-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:34.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.08	11-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.09	11-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 45 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS OTHERS 2x4 SP No.3

# BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-8-12 oc purlins, except end verticals. Rigid ceiling directly applied or 6-1-9 oc

bracing

REACTIONS (size) 2=0-3-0, 9= Mechanical

Max Horiz 2=101 (LC 13)

Max Uplift 2=-180 (LC 10), 9=-148 (LC 10) Max Grav 2=529 (LC 21), 9=516 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/13, 2-3=-896/843, 3-4=-864/849,

4-5=-59/42, 5-6=-41/52, 6-7=-6/0,

6-9=-127/56

**BOT CHORD** 2-11=-821/843, 10-11=-821/843,

9-10=-821/843, 8-9=0/0

4-12=-892/912, 9-12=-908/920, 5-12=-42/21,

4-10=-308/198, 3-11=-68/42

# WEBS NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-0-8, Exterior(2E) 7-0-8 to 10-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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2-10-2

April 1,2024

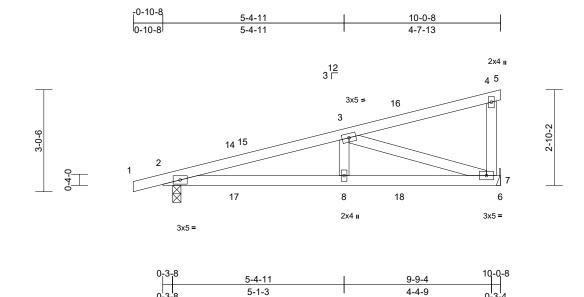
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Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4				
24030159-B	D01	Monopitch	11	1	Job Reference (optional)				

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:47 ID:VdN9jkpYe14JZnt?2rWcBDzhJ4i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:34.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.06	8-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.06	8-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 43 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 5-11-11 oc

bracing.

REACTIONS (size) 2=0-3-0, 7= Mechanical

Max Horiz 2=101 (LC 13)

Max Uplift 2=-180 (LC 10), 7=-148 (LC 10)

Max Grav 2=529 (LC 21), 7=516 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum Tension

1-2=0/13, 2-3=-995/938, 3-4=-92/69,

4-5=-6/0, 4-7=-182/93

BOT CHORD 2-8=-912/935, 7-8=-912/935, 6-7=0/0 **WEBS** 3-8=-287/198, 3-7=-937/954

NOTES

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-0-8, Exterior(2E) 7-0-8 to 10-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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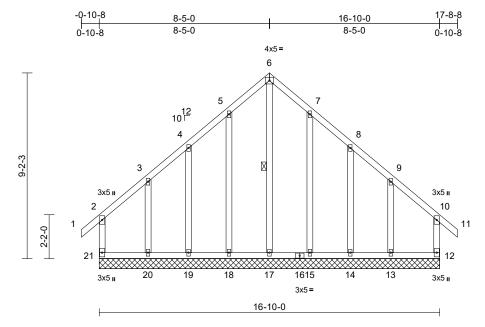
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Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	C01	Common Supported Gable	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:47 ID:802r6CYIqGJRwPBnmD7SlazhJ52-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scal	le	=	1	:57

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 127 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS OTHERS 2x4 SP No.3

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WERS 1 Row at midpt 6-17

REACTIONS (size) 12=16-10-0, 13=16-10-0, 14=16-10-0, 15=16-10-0,

17=16-10-0. 18=16-10-0.

19=16-10-0, 20=16-10-0,

21=16-10-0

Max Horiz 21=-241 (LC 12)

Max Uplift 12=-143 (LC 11), 13=-163 (LC 10), 14=-58 (LC 15), 15=-70 (LC 15),

18=-71 (LC 14), 19=-57 (LC 14),

20=-168 (LC 11), 21=-150 (LC 10)

12=236 (LC 24), 13=291 (LC 25), Max Grav

14=195 (LC 22), 15=264 (LC 22),

17=283 (LC 15), 18=264 (LC 21), 19=195 (LC 21), 20=295 (LC 28),

21=241 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-21=-180/195, 1-2=0/38, 2-3=-153/157,

3-4=-80/230, 4-5=-113/326, 5-6=-154/402,

6-7=-154/402, 7-8=-114/324, 8-9=-75/236,

9-10=-147/151, 10-11=0/38, 10-12=-176/161

**BOT CHORD** 20-21=-125/118, 19-20=-125/118,

18-19=-125/118, 17-18=-125/118, 15-17=-125/118, 14-15=-125/118,

13-14=-125/118, 12-13=-125/118

**WEBS** 6-17=-434/103, 5-18=-225/96,

4-19=-158/126, 3-20=-194/143, 7-15=-225/98, 8-14=-158/114, 9-13=-192/156

#### **NOTES**

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-5-0, Exterior(2N) 2-5-0 to 5-5-0. Corner(3R) 5-5-0 to 11-5-0. Exterior(2N) 11-5-0 to 14-5-0, Corner(3E) 14-5-0 to 17-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 5) desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* 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.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 21, 143 lb uplift at joint 12, 71 lb uplift at joint 18, 57 lb uplift at joint 19, 168 lb uplift at joint 20, 70 lb uplift at joint 15, 58 lb uplift at joint 14 and 163 lb uplift at joint
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 1,2024

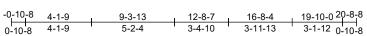
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

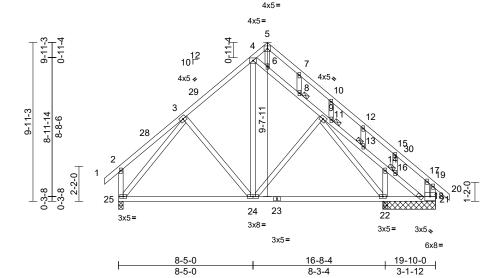
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	B02	Common	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:47 ID:QwOCt908BlmgeeqJB K8WlzhJ5k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:72.1

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.10	24-25	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.20	24-25	>982	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.01	21	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 160 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS OTHERS 2x4 SP No.3

# **BRACING**

**FORCES** 

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: 5-3-9 oc bracing: 18-21.

**JOINTS** 1 Brace at Jt(s): 8,

11, 13, 16

REACTIONS (size) 18=3-3-8, 21=3-3-8, 22=3-3-8,

25=0-3-8

Max Horiz 25=-260 (LC 12)

Max Uplift 18=-199 (LC 13), 21=-890 (LC 15),

22=-178 (LC 15), 25=-41 (LC 14) Max Grav 18=963 (LC 15), 21=270 (LC 29),

22=723 (LC 1), 25=760 (LC 21) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38, 2-3=-163/116, 3-4=-575/181,

4-5=-150/159, 5-7=-174/145, 7-10=-214/73, 10-12=-140/35, 12-15=-177/30.

15-17=-231/112, 17-19=-58/68, 19-20=0/38,

2-25=-229/168, 19-21=-99/171,

4-6=-459/142, 6-8=-462/91, 8-9=-496/118,

9-11=-46/95, 11-13=-84/63, 13-14=-112/109,

14-16=-69/40, 16-18=-94/87

BOT CHORD 24-25=-100/466, 22-24=0/424 18-22=-37/235, 18-21=-1138/275

**WEBS** 5-6=-126/69, 7-8=-163/89, 10-11=-220/107,

12-13=-87/72, 15-16=-175/203,

17-21=-269/34, 14-22=-223/240,

4-24=-94/328, 3-24=-113/181, 9-24=-149/102, 3-25=-623/35, 9-22=-478/129

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-3-13, Corner(3R) 6-3-13 to 12-3-13, Exterior(2N) 12-3-13 to 17-8-8. Corner(3E) 17-8-8 to 20-8-8 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 DOI = 160
- 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 890 lb uplift at joint 21

13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at joint 25. This connection is for uplift only and does not consider lateral forces

Page: 1

- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 1,2024

NOTES

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

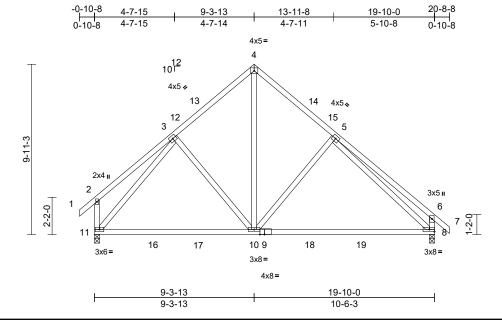
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	B01	Common	2	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:47 ID:poo3p3?OWRjN6 ZDvPrzF4zhJ8L-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.2

Plate Offsets (X, Y): [9:0-3-3,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.32	8-10	>725	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.55	8-10	>430	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 132 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 1 **WEBS** 2x4 SP No.3

BRACING

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

bracing.

REACTIONS (size) 8=0-3-8, 11=0-3-8 Max Horiz 11=-268 (LC 12)

Max Uplift 8=-74 (LC 15), 11=-66 (LC 14)

Max Grav 8=960 (LC 6), 11=958 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-228/107, 3-4=-768/168, 4-5=-781/170, 5-6=-548/185, 6-7=0/39,

2-11=-284/122. 6-8=-516/189

**BOT CHORD** 10-11=-79/663, 8-10=0/650

3-10=-148/204, 4-10=-102/613,

5-10=-278/230, 3-11=-773/53, 5-8=-589/28

# WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-3-13, Exterior(2R) 6-3-13 to 12-3-13, Interior (1) 12-3-13 to 17-8-8, Exterior(2E) 17-8-8 to 20-8-8 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 DOI =1 60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

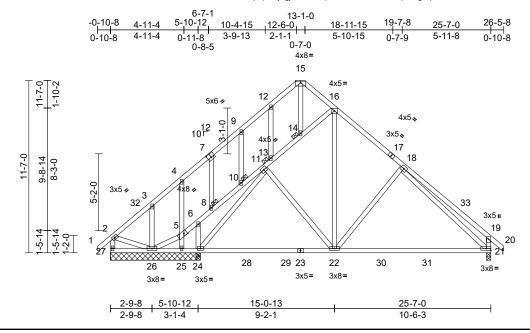
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Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	A04	Common	1	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S. Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:46 ID:UOz0qTq2DxjYgjXtYN8XdqzhJCR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:77.5

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

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.33	21-22	>702	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.56	21-22	>417	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	21	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 211 lb	FT = 20%

# LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No 1 WFBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

# BRACING

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

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

bracing, Except: 6-0-0 oc bracing: 26-27.

**JOINTS** 1 Brace at Jt(s): 14,

13, 10, 8

REACTIONS (size) 21=0-3-8, 24=6-0-8, 25=6-0-8,

26=6-0-8 27=6-0-8

Max Horiz 27=-290 (LC 12)

Max Uplift 21=-43 (LC 15), 24=-139 (LC 14), 25=-218 (LC 23), 26=-223 (LC 14),

27=-25 (LC 12)

21=944 (LC 25), 24=1139 (LC 24), Max Grav 25=-39 (LC 34), 26=298 (LC 24),

27=350 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-27=-312/98, 19-21=-520/239, 5-6=-85/127,

6-8=-199/233, 8-10=-135/176,

10-11=-105/138, 11-13=-686/268

13-14=-629/191, 14-16=-631/203, 1-2=0/36, 2-3=-372/163, 3-4=-283/113, 4-9=-206/71,

9-12=-111/27, 12-15=-118/51, 15-16=-129/50, 16-18=-734/134, 18-19=-561/225,

19-20=0/36

26-27=-268/282, 25-26=-75/271,

24-25=-74/257, 22-24=0/577, 21-22=0/612

WEBS

14-15=-21/17, 12-13=-172/131, 9-10=-86/65, 7-8=-136/98, 5-25=-60/80, 4-5=-138/103, 3-26=-139/108, 6-24=-258/176, 16-22=-107/569, 11-22=-87/114, 11-24=-613/134, 18-22=-236/221,

18-21=-462/0, 2-26=-174/352, 5-26=-102/127

# NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-14 to 2-2-2, Exterior(2N) 2-2-2 to 9-9-8, Corner(3R) 9-9-8 to 15-9-8, Exterior(2N) 15-9-8 to 23-4-14, Corner(3E) 23-4-14 to 26-4-14 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
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) \* 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.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at joint 21. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



BOT CHORD

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

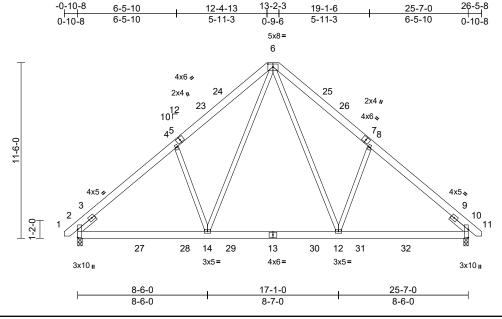
Design valid for use only with MiTek® connectors. This design is based only upon parameters.

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Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	A01	Common	17	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:45 ID:j97jP69sgrd5veAkaODY7wzhJJm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:75.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.08	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.12	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 199 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x6 SP No.2

**WEBS** 2x4 SP No.2 \*Except\* 12-8,14-4:2x4 SP No.3 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-2 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8. 10=0-3-8

> Max Horiz 2=-260 (LC 12) Max Uplift 2=-87 (LC 14), 10=-87 (LC 15)

Max Grav 2=1240 (LC 25), 10=1240 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-4=-1587/153, 4-6=-1528/270

6-8=-1528/270, 8-10=-1587/153, 10-11=0/27

**BOT CHORD** 2-14=-208/1148, 12-14=0/783,

10-12=-46/1111

**WEBS** 6-12=-189/740, 8-12=-348/285,

6-14=-189/740, 4-14=-348/285

#### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-5 to 2-3-11, Interior (1) 2-3-11 to 9-9-8, Exterior(2R) 9-9-8 to 15-9-8, Interior (1) 15-9-8 to 23-3-5, Exterior(2E) 23-3-5 to 26-3-5 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

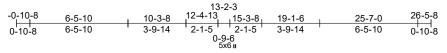


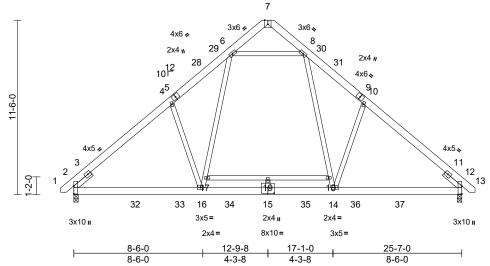
April 1,2024

Page: 1

Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	A02	Common	8	1	Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:46 ID:8MzQR?Qjx6sC?nivExcAt3zhJI7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:76

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.09	16-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.15	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 211 lb	FT = 20%

#### LUMBER

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

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-8-12 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS 2=0-3-8, 12=0-3-8 (size)

Max Horiz 2=260 (LC 13)

Max Grav 2=1298 (LC 24), 12=1298 (LC 25)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-4=-1478/0, 4-6=-1371/91,

6-7=-196/87, 7-8=-196/87, 8-10=-1372/91,

10-12=-1478/0, 12-13=0/27

BOT CHORD 2-16=-142/1197, 14-16=0/951, 12-14=-1/1069

WEBS 8-18=-71/708, 14-18=-81/696

10-14=-302/308, 16-17=-80/696,

6-17=-71/707, 4-16=-302/308, 6-8=-811/97,

17-19=-1/5, 18-19=-1/5, 15-19=0/28

#### NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-5 to 2-3-11, Interior (1) 2-3-11 to 9-9-8, Exterior(2R) 9-9-8 to 15-9-8, Interior (1) 15-9-8 to 23-3-5, Exterior(2E) 23-3-5 to 26-3-5 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 200.0lb AC unit load placed on the bottom chord, 12-9-8 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

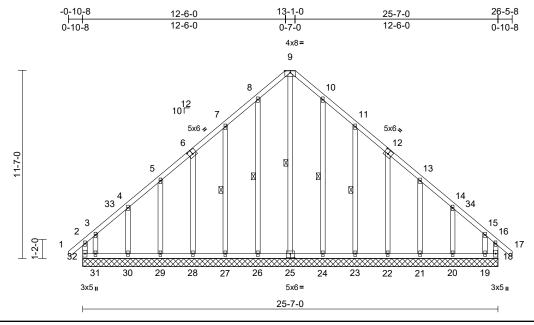
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	A05	Common	1	1	l64576625 Job Reference (optional)

Run: 8 73 S. Mar 21 2024 Print: 8 730 S.Mar 21 2024 MiTek Industries. Inc. Fri Mar 29 10:49:47 ID: qrWsZJexwYTmDiG3xJcR3zhJ9E-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71

Plate Offsets (X, Y):	[6:0-3-0,0-3-0],	[12:0-3-0,0-3-0], [25:	0-3-0,0-3-0]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 207 lb	FT = 20%

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

WFBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3 \*Except\* 25-9:2x4 SP No.2

BRACING

LUMBER

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.

WEBS 1 Row at midpt 9-25, 8-26, 7-27, 10-24,

11-23

18=25-7-0, 19=25-7-0, 20=25-7-0, REACTIONS (size)

21=25-7-0, 22=25-7-0, 23=25-7-0, 24=25-7-0, 25=25-7-0, 26=25-7-0,

27=25-7-0, 28=25-7-0, 29=25-7-0, 30=25-7-0, 31=25-7-0, 32=25-7-0

Max Horiz 32=-299 (LC 12)

Max Uplift 18=-241 (LC 13), 19=-294 (LC 15), 20=-70 (LC 15), 21=-73 (LC 15),

22=-75 (LC 15), 23=-87 (LC 15), 24=-62 (LC 15), 26=-63 (LC 14), 27=-87 (LC 14), 28=-75 (LC 14), 29=-73 (LC 14), 30=-69 (LC 14),

31=-324 (LC 14), 32=-327 (LC 12) 18=328 (LC 10), 19=285 (LC 13), Max Grav 20=176 (LC 25), 21=167 (LC 25),

22=173 (LC 25), 23=209 (LC 22), 24=269 (LC 22), 25=339 (LC 15), 26=269 (LC 21), 27=209 (LC 21), 28=173 (LC 24), 29=167 (LC 24), 30=174 (LC 24), 31=344 (LC 12),

32=410 (LC 11) (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/37, 2-3=-291/258, 3-4=-177/174,

4-5=-154/154, 5-7=-132/213, 7-8=-148/295, 8-9=-186/358, 9-10=-186/358, 10-11=-148/295, 11-13=-100/213,

13-14=-108/110. 14-15=-134/128. 15-16=-245/195, 16-17=0/37, 2-32=-260/194,

16-18=-206/140

BOT CHORD 31-32=-138/158, 30-31=-138/158,

29-30=-138/158, 28-29=-138/158, 27-28=-139/158, 26-27=-139/158, 24-26=-139/158, 23-24=-139/158,

22-23=-139/158, 21-22=-137/157, 20-21=-137/157, 19-20=-137/157,

18-19=-137/157 **WEBS** 

9-25=-388/137, 8-26=-229/87 7-27=-169/110, 6-28=-133/100,

5-29=-126/95, 4-30=-139/103, 3-31=-172/195, 10-24=-229/86 11-23=-169/111, 12-22=-133/99, 13-21=-126/95, 14-20=-139/103,

15-19=-144/181

# NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-14 to 2-2-2. Exterior(2N) 2-2-2 to 9-9-8, Corner(3R) 9-9-8 to 15-9-8, Exterior(2N) 15-9-8 to 23-4-14. Corner(3E) 23-4-14 to 26-4-14 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
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 5) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



Continued on page 2

**FORCES** 

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	67 Farm at Neills Creek-2nd Floor-Callaway 1 COP BR4
24030159-B	A05	Common	1	1	I64576625 Job Reference (optional)

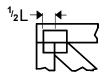
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- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 32, 241 lb uplift at joint 18, 63 lb uplift at joint 26, 87 lb uplift at joint 27, 75 lb uplift at joint 28, 73 lb uplift at joint 29, 69 lb uplift at joint 30, 324 lb uplift at joint 31, 62 lb uplift at joint 24, 87 lb uplift at joint 23, 75 lb uplift at joint 22, 73 lb uplift at joint 21, 70 lb uplift at joint 20 and 294 lb uplift at joint 19.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

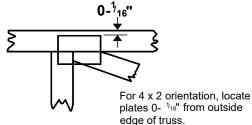
LOAD CASE(S) Standard

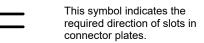
# **Symbols**

#### 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.





\* 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.

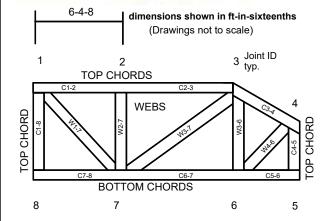
#### **Industry Standards:**

ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety In

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.

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# MiTek®



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



# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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.
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 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.
- 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.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.