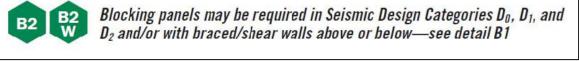
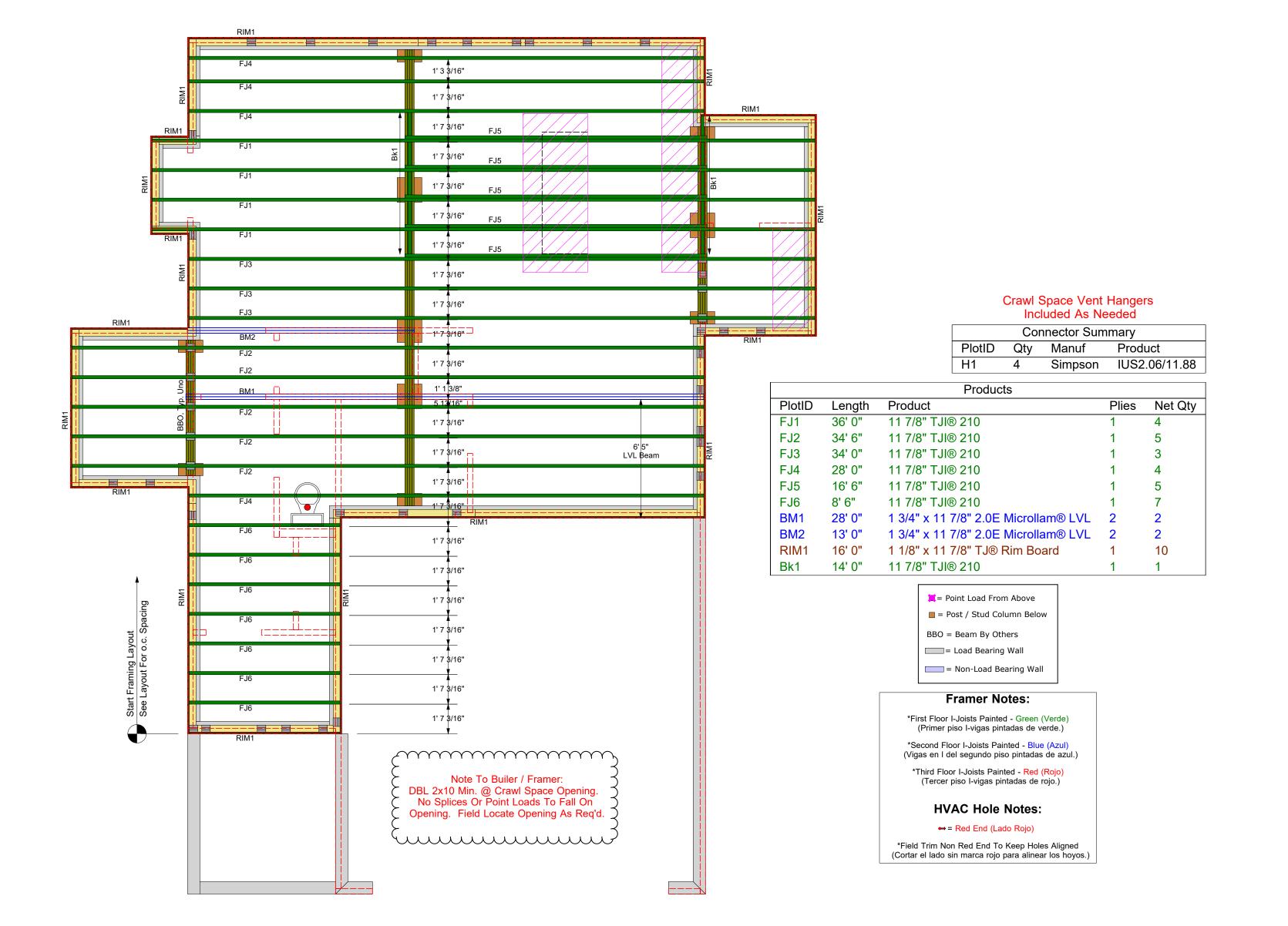
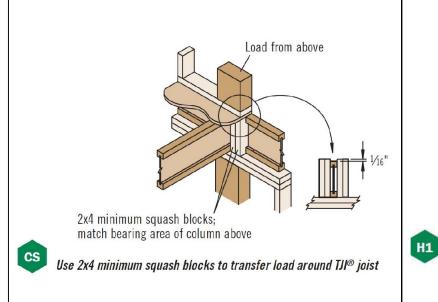
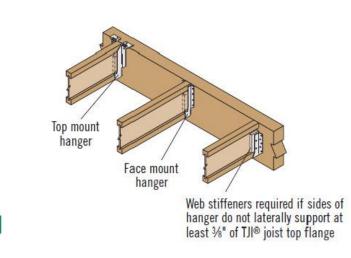


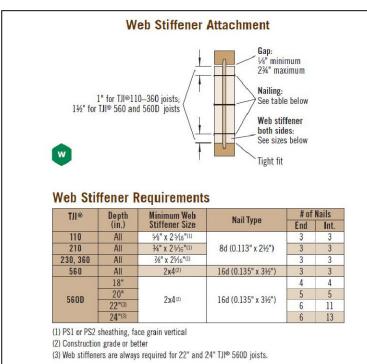
IRC 502.7 requires lateral restraint (blocking) at all intermediate supports in Seismic Design Categories D_0 , D_1 , and D_2 to strengthen the floor diaphragm

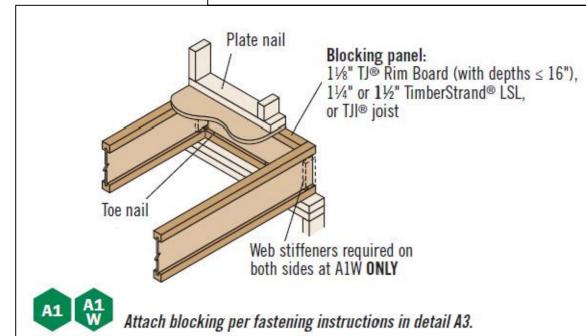


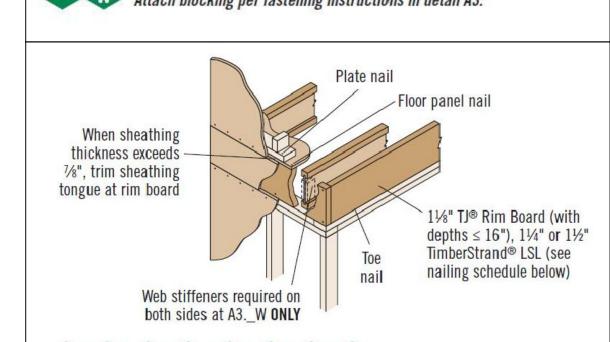


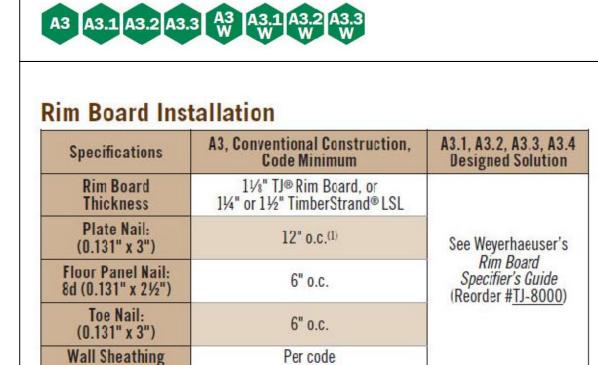












(1) Per code, increase nailing to 4" on center for braced walls.

LEVEL NAME: 1st Floor Framing Layout

Inc

Home

New

3941 USHwy 421 North

Wilmington, NC 28401 (910) 386-4300

DRAWN BY:

JJC

DATE:

09-30-2025

SCALE:

1/4" = 1'-0"

SALESPERSON:

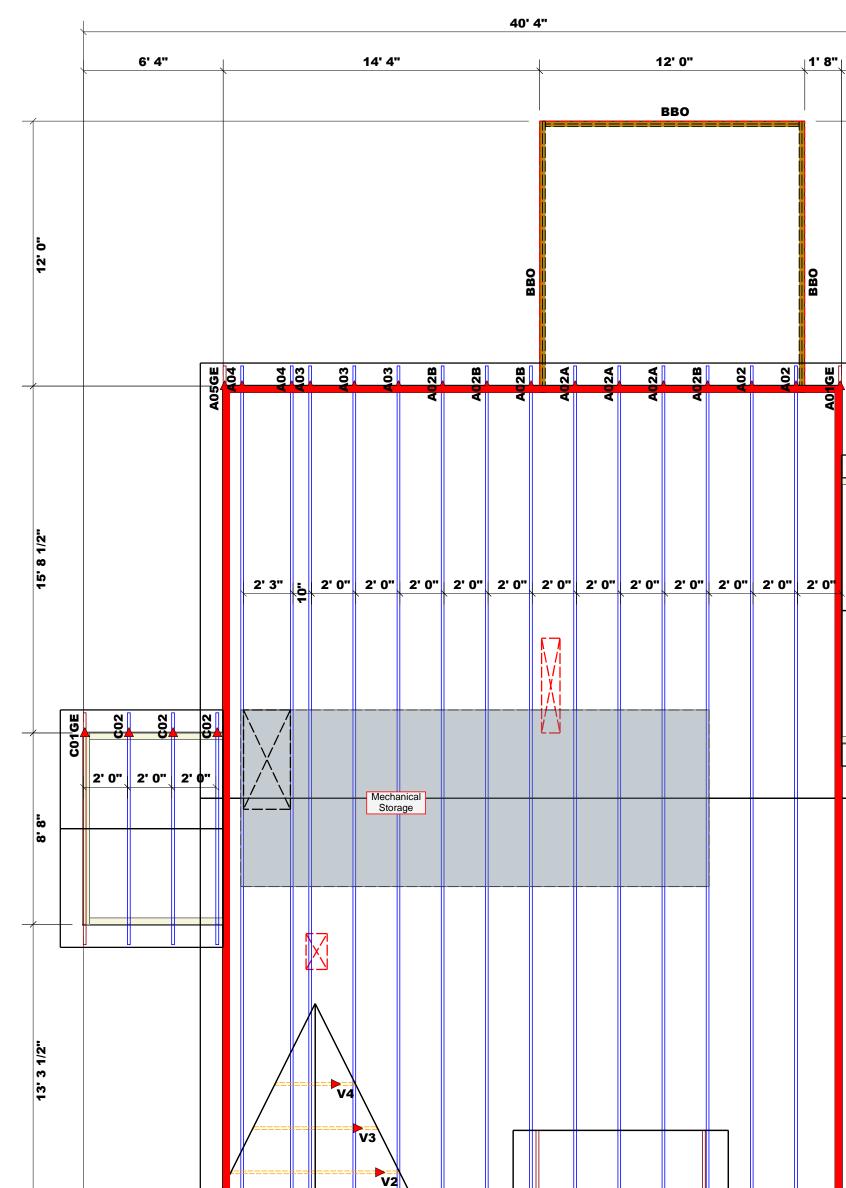
Kevin Martin

Creek

9 Duncans English Cα

Lot 59 swick E

PAGE: 1



Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

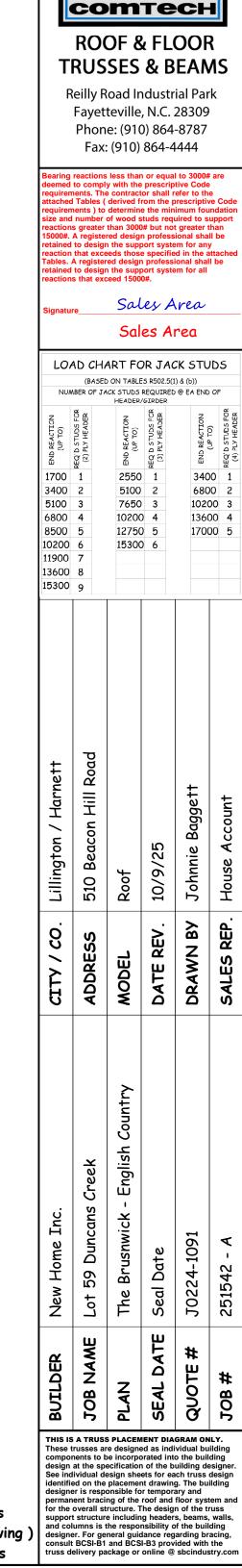
= 1868.38 sq.ft. Roof Area = 55.25 ft. Ridge Line = 0 ft. Hip Line = 149.36 ft. Horiz. OH = 191.47 ft. Raked OH = 64 sheets Decking

All Walls Shown Are Considered Load Bearing

= Indicates Left End of Truss ▲ (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

WALL SCHE	DULE
1st Floor Walls	
2nd Floor Walls	
Non-Bearing Walls	
Garage Walls Dropped	

Nail Info	ormation	Co	nnec	tor Infor	mation			
Truss	Header	Supported Member						
10d/3"	10d/3"	NA	13	USP	JUS24			



= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

6' 0"

2' 0" 2' 0"

6' 0"

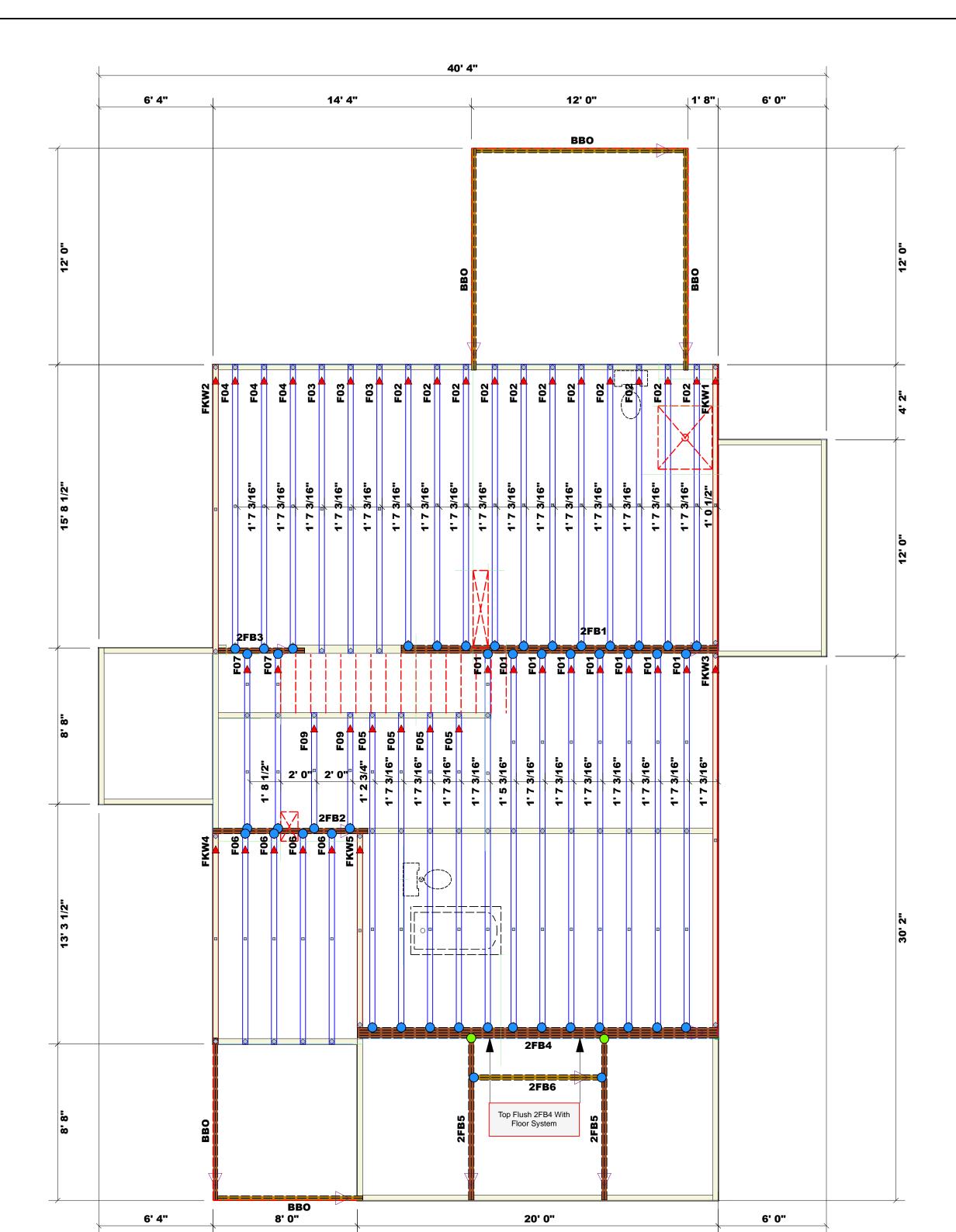
2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0" | 2' 0"

20' 0"

вво

8' 0"

6' 4"



Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.

2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.

3. Adjust spacing as needed not to exceed

Dimension Notes

1. All exterior wall to wall dimensions are to

face of sheathing unless noted otherwise 2. All interior wall dimensions are to face of

stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

All Walls Shown Are Considered Load Bearing

= Indicates Left End of Truss 🛕

(Reference Engineered Truss Drawing)

Do Not Erect Trusses Backwards

WALL SCHEDULE

Non-Bearing Walls

□□□□□□

Connector Information

Product

HUS410

SUH414

8' 0"

5' 0"

2FB5

2FB6

2FB3

Qty Manuf

46 USP

2 USP

1-3/4"x 23-7/8" LVL Kerto-S 20' 0" 2FB4

Product Length

1st Floor Walls 2nd Floor Walls

Supported

NA

Products

1-3/4"x 14" LVL Kerto-S

Nail Information

16d/3-1/2" | 16d/3-1/2"

Header

16d/3-1/2"

Truss

10d/3"

ROOF & FLOOR TRUSSES & BEAMS Reilly Road Industrial Park

COMTECH

Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundatior size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature____

11900 7

13600 8 15300 9 Sales Area

Sales Area

LOAD CHART FOR JACK STUDS
(BASED ON TABLES R502.5(1) & (b))

I	NUI	MBER C	STUDS R HEADER/		A END OF	
	END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END RE <i>AC</i> TION (UP TO)	REQ'D STUDS FOR
I	1700	1	2550	1	3400	1
I	3400	2	5100	2	6800	2
I	5100	3	7650	3	10200	3
I	6800	4	10200	4	13600	4
I	8500	5	12750	5	17000	Ę
I	10200	6	15300	6		

CITY / CO.	Lillington / Harnett
ADDRESS	510 Beacon Hill Road
MODEL	Floor
DATE REV.	9/30/25
DRAWN BY	Johnnie Baggett

New Home Inc.

Lot 59 Duncans Creek

The Brunswick - English Country

Seal Date

B0224-1089

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building 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 system 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 bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

SEAL DATE

QUOTE ;

JOB NAME

BUILDER

= Indicates Left End of Truss

(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 251542-A

Lot 59 Duncan's Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I76952514 thru I76952537

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



October 10,2025

Gilbert, Eric

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.

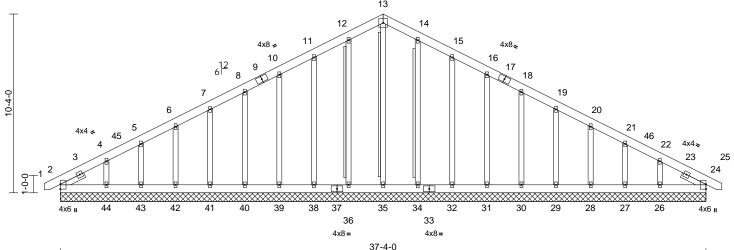
Job Truss Truss Type Qtv Ply Lot 59 Duncan's Creek 176952514 251542-A A01GE Common Supported Gable Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:38 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:66.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	24	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 326 lb	FT = 20%

LUMBER

WEBS

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF OTHERS No.2(flat)

SLIDER Left 2x4 SP No.2 -- 1-6-4, Right 2x4 SP No.2 -- 1-6-4

BRACING

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

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

bracing. T-Brace:

2x4 SPF No.2 - 13-35. 12-36, 14-34 Fasten (2X) T and I braces to narrow edge of

web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance

Brace must cover 90% of web length.

REACTIONS (size)

2=37-4-0, 24=37-4-0, 26=37-4-0, 27=37-4-0, 28=37-4-0, 29=37-4-0, 30=37-4-0, 31=37-4-0, 32=37-4-0, 34=37-4-0, 35=37-4-0, 36=37-4-0,

38=37-4-0, 39=37-4-0, 40=37-4-0, 41=37-4-0, 42=37-4-0, 43=37-4-0, 44=37-4-0

Max Horiz 2=129 (LC 9)

Max Uplift 2=-22 (LC 8), 26=-78 (LC 13),

27=-23 (LC 13), 28=-35 (LC 13), 29=-33 (LC 13), 30=-33 (LC 13), 31=-34 (LC 13), 32=-42 (LC 13), 34=-9 (LC 13), 36=-15 (LC 12), 38=-40 (LC 12), 39=-34 (LC 12),

40=-33 (LC 12), 41=-33 (LC 12), 42=-35 (LC 12), 43=-21 (LC 12), 44=-89 (LC 12)

Max Grav 2=167 (LC 20), 24=161 (LC 1), 26=203 (LC 26), 27=149 (LC 1), 28=162 (LC 26), 29=160 (LC 1), 30=160 (LC 1), 31=160 (LC 1), 32=162 (LC 26), 34=161 (LC 26), 35=156 (LC 22), 36=161 (LC 25), 38=162 (LC 25), 39=160 (LC 1), 40=160 (LC 1), 41=160 (LC 1), 42=162 (LC 25), 43=149 (LC 1), 44=203 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

BOT CHORD

WFBS

NOTES

1-2=-8/0, 2-4=-183/88, 4-5=-111/71 5-6=-101/72, 6-7=-92/90, 7-8=-84/140, 8-10=-82/198, 10-11=-103/256,

11-12=-125/319, 12-13=-139/358, 13-14=-139/358, 14-15=-125/319, 15-16=-103/256, 16-18=-82/198,

18-19=-62/140, 19-20=-56/82, 20-21=-64/24, 21-22=-78/23, 22-24=-163/49, 24-25=-8/0

2-44=-50/197, 43-44=-50/197, 42-43=-50/197, 41-42=-50/197, 40-41=-50/197, 39-40=-50/197, 38-39=-50/197, 36-38=-50/197, 35-36=-50/197, 34-35=-50/197,

32-34=-50/197, 31-32=-50/197, 30-31=-50/197, 29-30=-50/197, 28-29=-50/197, 27-28=-50/197

26-27=-50/197, 24-26=-50/197 13-35=-187/31, 12-36=-121/62 11-38=-122/120, 10-39=-120/106, 8-40=-120/105, 7-41=-120/105,

6-42=-121/107, 5-43=-115/93, 4-44=-145/239, 14-34=-121/62 15-32=-122/120, 16-31=-120/106, 18-30=-120/105, 19-29=-120/105, 20-28=-121/107, 21-27=-115/93,

22-26=-145/235

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 18-8-0, Corner(3R) 18-8-0 to 23-0-13, Exterior(2N) 23-0-13 to 38-1-2 zone; 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.



October 10,2025

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

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)



ſ	Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
	251542-A	A01GE	Common Supported Gable	1	1	Job Reference (optional)	6952514

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries. Inc. Thu Oct 09 10:11:38 ID: OJmV jnya Ayz 5P3t7 HPvK2hz iFs2-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for the property of the pr

Page: 2

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2, 15 lb uplift at joint 36, 40 lb uplift at joint 38, 34 lb uplift at 2, 13 by limit a joint 39, 40 by limit at joint 40, 31 by lift at joint 41, 35 lb uplift at joint 42, 21 lb uplift at joint 43, 89 lb uplift at joint 44, 9 lb uplift at joint 34, 42 lb uplift at joint 32, 34 lb uplift at joint 31, 33 lb uplift at joint 30, 33 lb uplift at joint 29, 35 lb uplift at joint 28, 23 lb uplift at joint 27 and 78 lb uplift at joint 26.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

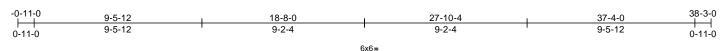


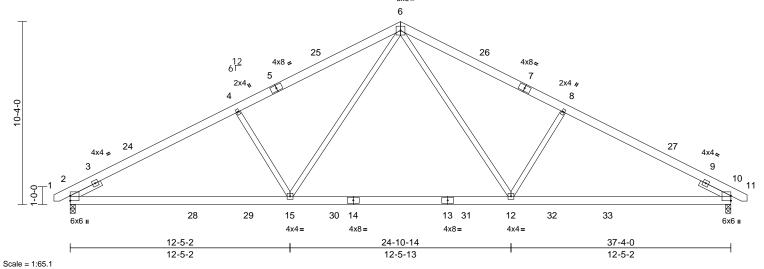
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	A02	Common	2	1	Job Reference (optional)	176952515

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries. Inc. Thu Oct 09 10:11:39 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





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	0.28	Vert(LL)	-0.36	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.52	12-15	>855	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	12-15	>999	240	Weight: 246 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP **SLIDER**

No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 10=0-3-8 Max Horiz 2=126 (LC 11)

Max Uplift 2=-99 (LC 12), 10=-99 (LC 13) Max Grav 2=1831 (LC 2), 10=1831 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2924/532, 4-6=-2720/563, 6-8=-2720/563, 8-10=-2924/532, 10-11=0/20

2-15=-342/2580, 12-15=-123/1768, BOT CHORD

10-12=-340/2529

WEBS 4-15=-497/299, 6-15=-126/1138, 6-12=-126/1138, 8-12=-497/299

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-8-0, Exterior(2R) 18-8-0 to 23-0-13, Interior (1) 23-0-13 to 38-1-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 2 and 99 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



October 10,2025

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

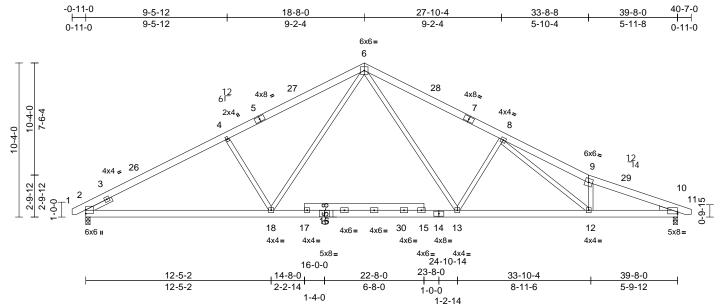
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 59 Duncan's Creek	
251542-A	A02A	Roof Special	3	1	Job Reference (optional)	176952516

Run: 25.30 S. Oct. 2.2025 Print: 25.3.0 S. Oct. 2.2025 MiTek Industries. Inc. Thu Oct.09.10:11:40 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:77.2

Plate Offsets (X, Y): [10:Edge,0-1-9]

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	0.43	Vert(LL)	-0.15	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.39	13-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.13	12-13	>999	240	Weight: 288 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS Right: 2x4 SP No.3 WEDGE **SLIDER**

Left 2x4 SP No.2 -- 1-11-0

BRACING TOP CHORD

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=0-3-8, 10=0-3-8 Max Horiz 2=-127 (LC 10) Max Uplift 10=-19 (LC 13)

Max Grav 2=1739 (LC 1), 10=1722 (LC 1)

Structural wood sheathing directly applied.

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2828/564, 4-6=-2583/588,

6-8=-2820/627, 8-9=-3964/888, 9-10=-3777/730, 10-11=0/13 2-18=-365/2425, 13-18=-147/1753,

12-13=-417/2798, 10-12=-608/3491 9-12=-698/284, 4-18=-479/383,

WEBS 6-18=-83/889, 6-13=-154/1225, 8-13=-760/428, 8-12=-289/982

NOTES

BOT CHORD

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-8-0, Exterior(2R) 18-8-0 to 23-0-13, Interior (1) 23-0-13 to 40-4-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-8-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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.

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	Lot 59 Duncan's Creek	
251542-A	A02B	Common	4	1	Job Reference (optional)	176952517

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:40 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

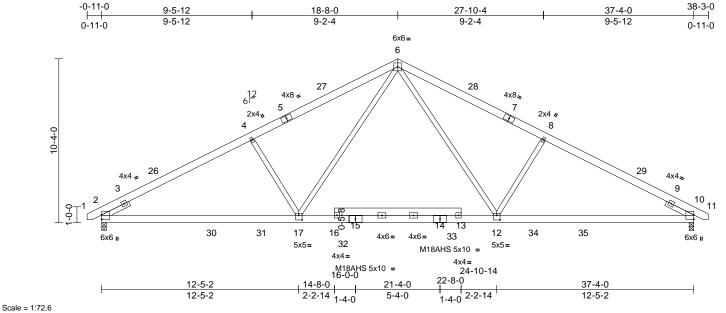


Plate Offsets (X, Y): [12:0-2-8,0-3-8], [17:0-2-8,0-3-8]

												-
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.22	12-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.44	12-17	>999	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	12-17	>999	240	Weight: 265 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP **SLIDER**

No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

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

Max Horiz 2=126 (LC 11)

Max Grav 2=1922 (LC 2), 10=1922 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-3099/324, 4-6=-2896/353,

6-8=-2896/353, 8-10=-3099/324, 10-11=0/20

BOT CHORD 2-17=-160/2735, 12-17=-15/1877,

10-12=-158/2684

WEBS 4-17=-483/314 6-17=-19/1229

6-12=-19/1229, 8-12=-483/314

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-8-0, Exterior(2R) 18-8-0 to 23-0-13, Interior (1) 23-0-13 to 38-1-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-8-0 from left end, supported at two points, 5-0-0 apart.
- All plates are MT20 plates unless otherwise indicated
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf 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 design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



October 10,2025

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	Lot 59 Duncan's Creek	
251542-A	A03	Common	3	1	Job Reference (optional)	176952518

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:40 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

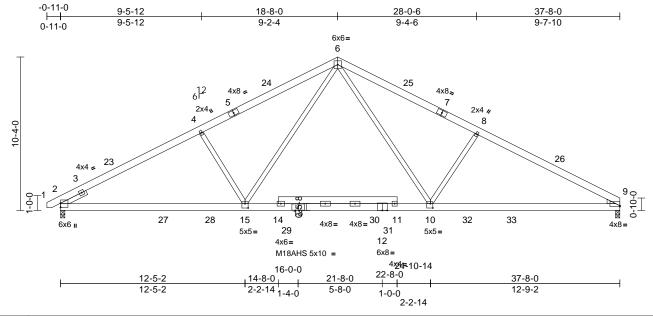


Plate Offsets (X, Y): [9:Edge,0-0-11], [10:0-2-0,0-3-8], [15:0-2-8,0-3-8]

-				1			-					•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.22	10-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.43	10-15	>999	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	10-15	>999	240	Weight: 262 lb	FT = 20%

LUMBER

Scale = 1:77.6

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS Right: 2x4 SP No.3 WEDGE **SLIDER** Left 2x4 SP No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS 2=0-3-8, 9=0-3-8 (size) Max Horiz 2=128 (LC 11)

Max Grav 2=1938 (LC 2), 9=1891 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-3131/326, 4-6=-2928/356,

6-8=-2983/363, 8-9=-3232/344

BOT CHORD 2-15=-183/2758. 10-15=-45/1904.

9-10=-186/2796

WEBS 4-15=-483/314, 6-15=-17/1223,

6-10=-21/1302, 8-10=-531/326

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-8-0, Exterior(2R) 18-8-0 to 23-0-13, Interior (1) 23-0-13 to 37-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-8-0 from left end, supported at two points, 5-0-0 apart.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf 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 design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



October 10,2025

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	Lot 59 Duncan's Creek	
251542-A	A04	Common	2	1	Job Reference (optional)	76952519

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:40 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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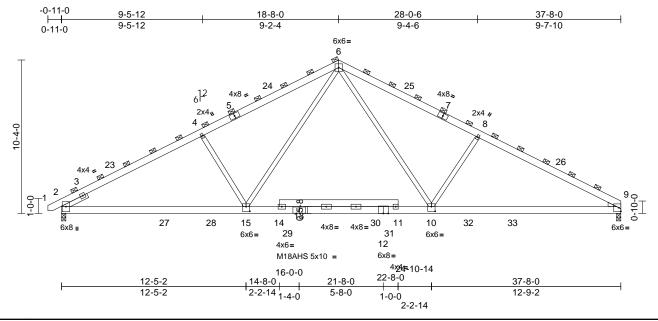


Plate Offsets (X, Y): [2:0-4-6,0-0-9], [10:0-3-0,0-3-12], [15:0-3-0,0-3-12]

Loading	(psf)	Spacing	2-1-8	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.24	10-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.46	10-15	>982	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.08	10-15	>999	240	Weight: 262 lb	FT = 20%

LUMBER

Scale = 1:77.6

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS Right: 2x4 SP No.3 WEDGE

SLIDER Left 2x4 SP No.2 -- 1-11-0

BRACING

TOP CHORD 2-0-0 oc purlins (3-10-7 max.)

(Switched from sheeted: Spacing > 2-0-0).

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

REACTIONS (size) 2=0-3-8, 9=0-3-8

Max Horiz 2=136 (LC 11) Max Uplift 2=-4 (LC 12)

Max Grav 2=2053 (LC 2), 9=2003 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-4=-3319/362, 4-6=-3102/393,

6-8=-3160/401, 8-9=-3427/381

BOT CHORD 2-15=-209/2927, 10-15=-50/2006,

9-10=-212/2967

4-15=-527/340, 6-15=-32/1306,

6-10=-36/1390, 8-10=-576/352

WEBS 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-8-0, Exterior(2R) 18-8-0 to 23-0-13, Interior (1) 23-0-13 to 37-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-8-0 from left end, supported at two points, 5-0-0 apart.
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 2.
- 8) 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



October 10,2025

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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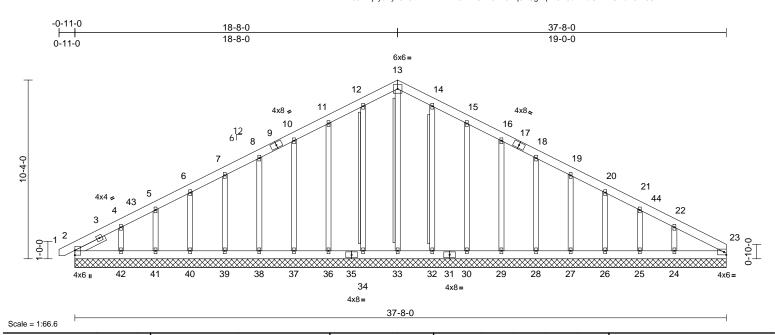


Job Truss Truss Type Qtv Ply Lot 59 Duncan's Creek 176952520 251542-A A05GE Common Supported Gable Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries. Inc. Thu Oct 09 10:11:40 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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LUMBER

Loading

TCDI

BCLL

BCDL

TCLL (roof)

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF OTHERS

(psf)

20.0

10.0

10.0

0.0*

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

No.2(flat)

SLIDER Left 2x4 SP No.2 -- 1-11-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS T-Brace: 2x4 SPF No 2 - 13-33

12-34, 14-32

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length

REACTIONS (size)

2=37-8-0, 23=37-8-0, 24=37-8-0, 25=37-8-0, 26=37-8-0, 27=37-8-0, 28=37-8-0, 29=37-8-0, 30=37-8-0, 32=37-8-0. 33=37-8-0. 34=37-8-0. 36=37-8-0, 37=37-8-0, 38=37-8-0,

39=37-8-0, 40=37-8-0, 41=37-8-0,

42=37-8-0

Max Horiz 2=-132 (LC 8)

Max Uplift 2=-21 (LC 8), 24=-67 (LC 13),

25=-28 (LC 13), 26=-34 (LC 13), 27=-34 (LC 13), 28=-33 (LC 13), 29=-34 (LC 13), 30=-42 (LC 13),

32=-9 (LC 13), 34=-15 (LC 12), 36=-40 (LC 12), 37=-34 (LC 12), 38=-33 (LC 12), 39=-33 (LC 12),

40=-35 (LC 12), 41=-24 (LC 12), 42=-85 (LC 12)

Max Grav 2=165 (LC 20), 23=112 (LC 1),

CSI

TC

BC

WB

Matrix-S

2-0-0

1.15

1 15

YES

IRC2021/TPI2014

FORCES

BOT CHORD

WFBS

NOTES

24=243 (LC 26), 25=133 (LC 26), 26=165 (LC 1), 27=159 (LC 26), 28=160 (LC 1), 29=160 (LC 1), 30=162 (LC 26), 32=162 (LC 26), 33=159 (LC 22), 34=161 (LC 25), 36=162 (LC 25), 37=160 (LC 1), 38=160 (LC 1), 39=160 (LC 25),

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.05

0.03

0.13

in

n/a

n/a

0.01

(loc)

23

40=162 (LC 25), 41=150 (LC 1),

42=202 (LC 25)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-8/0, 2-4=-196/90, 4-5=-111/74 5-6=-97/73, 6-7=-89/89, 7-8=-81/138,

8-10=-77/196, 10-11=-97/254, 11-12=-120/317, 12-13=-133/356

13-14=-133/356, 14-15=-120/317, 15-16=-97/254, 16-18=-77/196,

18-19=-57/138, 19-20=-52/81, 20-21=-59/23, 21-22=-78/23, 22-23=-187/63

2-42=-53/215, 41-42=-53/215, 40-41=-53/215, 39-40=-53/215,

38-39=-53/215, 37-38=-53/215,

36-37=-53/215, 34-36=-53/215, 33-34=-53/215. 32-33=-53/215.

30-32=-53/215, 29-30=-53/215, 28-29=-53/215, 27-28=-53/215,

26-27=-53/215, 25-26=-53/215

24-25=-53/215, 23-24=-53/215 13-33=-186/29, 12-34=-121/63

11-36=-122/119, 10-37=-120/106, 8-38=-120/105, 7-39=-120/105, 6-40=-121/106, 5-41=-115/96,

4-42=-144/237, 14-32=-122/63 15-30=-122/119, 16-29=-120/106, 18-28=-120/105, 19-27=-120/105,

20-26=-122/107, 21-25=-104/95,

22-24=-173/256

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

PLATES

MT20

GRIP

Weight: 324 lb FT = 20%

244/190

L/d

I/defl

n/a 999

n/a 999

n/a n/a

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 18-8-0, Corner(3R) 18-8-0 to 23-0-13, Exterior(2N) 23-0-13 to 37-8-0 zone; 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.



October 10,2025

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

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	Lot 59 Duncan's Creek	
251542-A	A05GE	Common Supported Gable	1	1	Job Reference (optional)	52520

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries. Inc. Thu Oct 09 10:11:40 ID: OJmV jnya Ayz 5P3t7 HPvK2hz iFs2-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for the property of the pr

Page: 2

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 15 lb uplift at joint 34, 40 lb uplift at joint 36, 34 lb uplift at joint 37, 33 lb uplift at joint 38, 33 lb uplift at joint 39, 35 lb uplift at joint 40, 24 lb uplift at joint 41, 85 lb uplift at joint 42, 9 lb uplift at joint 32, 42 lb uplift at joint 30, 34 lb uplift at joint 29, 33 lb uplift at joint 28, 34 lb uplift at joint

27, 34 lb uplift at joint 26, 28 lb uplift at joint 25 and 67 lb

10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 23.

11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

uplift at joint 24.

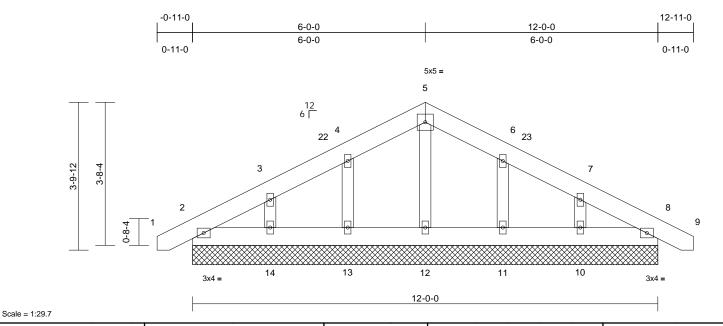


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	B01GE	Common	1	1	Job Reference (optional)	176952521

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:40 ID:NuBeII_vfyRCydgdwOLwMJyYUi1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



BCDL LUMBER

Loading

TCDI

BCLL

TCLL (roof)

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 **OTHERS**

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

(psf)

20.0

10.0

10.0

0.0*

REACTIONS (size)

2=12-0-0, 8=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0

Max Horiz 2=-44 (LC 10)

Max Uplift 2=-11 (LC 8), 8=-5 (LC 13), 10=-42 (LC 13), 11=-29 (LC 13), 13=-30

(LC 12), 14=-43 (LC 12) 2=133 (LC 1), 8=133 (LC 1),

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2021/TPI2014

Max Grav 10=165 (LC 26), 11=163 (LC 26), 12=134 (LC 1), 13=163 (LC 25),

14=165 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/20, 2-3=-48/28, 3-4=-54/76, TOP CHORD

4-5=-65/153, 5-6=-65/153, 6-7=-50/75,

7-8=-35/11, 8-9=0/20

BOT CHORD 2-14=-13/85, 13-14=-13/85, 12-13=-13/85, 11-12=-13/85, 10-11=-13/85, 8-10=-13/85

5-12=-93/0, 4-13=-126/152, 3-14=-116/161,

WEBS 6-11=-126/152, 7-10=-116/161

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to 12-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.02

0.01

0.03

in

n/a

n/a

0.00

(loc)

8

I/defI

n/a 999

n/a

n/a n/a

L/d

999

PLATES

Weight: 77 lb

MT20

GRIP

244/190

FT = 20%

- All plates are 2x4 (||) MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.

CSI

TC

BC

WB

Matrix-AS

- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 5 lb uplift at joint 8, 30 lb uplift at joint 13, 43 lb uplift at joint 14, 29 lb uplift at joint 11, 42 lb uplift at joint 10, 11 Ib uplift at joint 2 and 5 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 10,2025

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

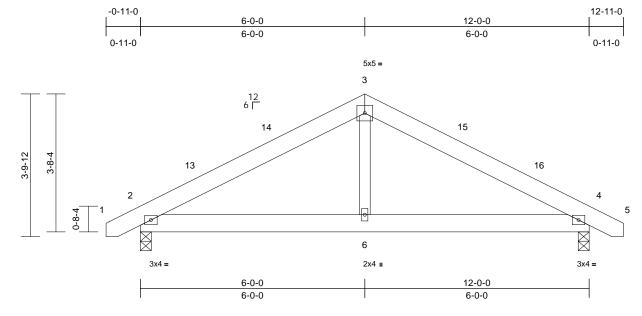
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 59 Duncan's Creek	
251542-A	B02	Common	2	1	Job Reference (optional)	176952522

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries. Inc. Thu Oct 09 10:11:40 $ID:nTtmwK1 oxtpmp4 OCbXud_xyYUi_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zdC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zdC?ffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffC?psB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4WqAfffC?psB70Hq4$

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.01	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	6-9	>999	240	Weight: 69 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

2=0-3-8, 4=0-3-8

REACTIONS (size) Max Horiz 2=-44 (LC 10)

Max Uplift 2=-39 (LC 12), 4=-39 (LC 13)

Max Grav 2=526 (LC 1), 4=526 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-642/342, 3-4=-642/342,

4-5=0/20

BOT CHORD 2-6=-166/515, 4-6=-166/515

WFBS 3-6=0/257

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior (1) 10-4-13 to 12-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2 and 39 lb uplift at joint 4.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



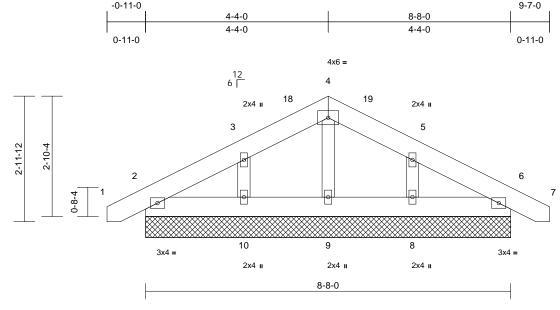
October 10,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	C01GE	Common Supported Gable	1	1	Job Reference (optional)	76952523

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:40

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. **BOT CHORD**

REACTIONS (size)

2=8-8-0, 6=8-8-0, 8=8-8-0, 9=8-8-0, 10=8-8-0

Max Horiz 2=33 (LC 11)

Max Uplift 2=-8 (LC 12), 6=-15 (LC 13), 8=-47 (LC 13), 10=-49 (LC 12)

2=142 (LC 1), 6=142 (LC 1), 8=199 (LC 1), 9=102 (LC 1), 10=199 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-42/39, 3-4=-65/143,

4-5=-65/142, 5-6=-36/28, 6-7=0/20

BOT CHORD 2-10=-8/81, 9-10=-8/81, 8-9=-8/81, 6-8=-8/81 **WEBS** 4-9=-72/3, 3-10=-142/234, 5-8=-142/233

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 4-4-0, Corner(3R) 4-4-0 to 8-8-0, Exterior(2N) 8-8-0 to 9-5-2 zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 15 lb uplift at joint 6, 49 lb uplift at joint 10, 47 lb uplift at joint 8, 8 lb uplift at joint 2 and 15 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 10,2025

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

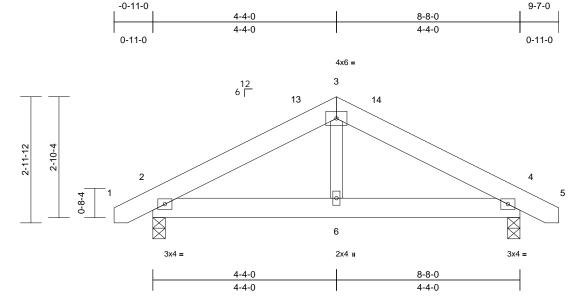
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	Lot 59 Duncan's Creek	
251542-A	C02	Common	3	1	Job Reference (optional)	176952524

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:41 ID:YHuDAtKT3YyDJwp0ZHrUVDyYUhb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:27.2

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	0.09	Vert(LL)	0.00	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	6-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	6-9	>999	240	Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 4=0-3-8 Max Horiz 2=33 (LC 11)

Max Uplift 2=-31 (LC 12), 4=-31 (LC 13)

Max Grav 2=392 (LC 1), 4=392 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-425/282, 3-4=-425/281,

4-5=0/20

BOT CHORD 2-6=-118/331, 4-6=-118/331

WFBS 3-6=-25/183

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 4-4-0, Exterior(2R) 4-4-0 to 8-8-0, Interior (1) 8-8-0 to 9-5-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 31 lb uplift at joint 4.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



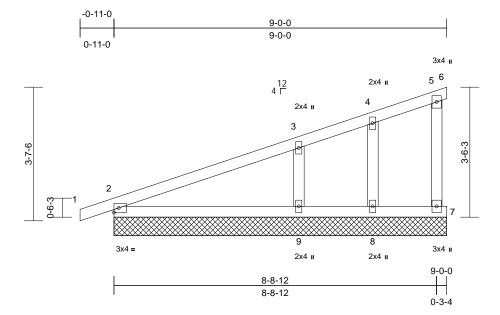
October 10,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	M01GE	Monopitch Supported Gable	1	1	Job Reference (optional)	176952525

Run: 25.30 S. Oct. 2.2025 Print: 25.3.0 S. Oct. 2.2025 MiTek Industries. Inc. Thu Oct. 09.10:11:41 ID:tyEhkGiUMH6eHoedPNLvJ2yYUdE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.2

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 39 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=9-0-0, 6=9-0-0, 7=9-0-0, 8=9-0-0,

9=9-0-0 Max Horiz 2=160 (LC 8)

Max Uplift 2=-54 (LC 8), 6=-19 (LC 1), 7=-53

(LC 12), 8=-9 (LC 8), 9=-156 (LC

12)

2=224 (LC 1), 6=11 (LC 12), 7=115 Max Grav (LC 1), 8=42 (LC 1), 9=406 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/17, 2-3=-247/81, 3-4=-77/17, 4-5=-44/19, 5-6=-11/9, 5-7=-93/144

BOT CHORD 2-9=-247/89, 8-9=0/0, 7-8=0/0 WEBS 4-8=-45/80, 3-9=-281/431

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 9-0-0 zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2, 19 lb uplift at joint 6, 53 lb uplift at joint 7, 9 lb uplift at joint 8, 156 lb uplift at joint 9 and 54 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



October 10,2025

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

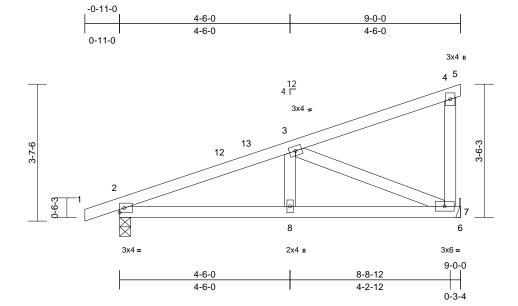
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 59 Duncan's Creek	
251542-A	M02	MONOPITCH	6	1		952526

Run: 25.30 S. Oct. 2.2025 Print: 25.3.0 S. Oct. 2.2025 MiTek Industries. Inc. Thu Oct. 09.10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8	>999	240	Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-3-8, 7= Mechanical

Max Horiz 2=112 (LC 8)

Max Uplift 2=-53 (LC 8), 7=-56 (LC 12) Max Grav 2=407 (LC 1), 7=357 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-576/250, 3-4=-67/26,

4-5=-2/0, 4-7=-108/158

BOT CHORD 2-8=-411/511, 7-8=-411/511, 6-7=0/0

WEBS 3-7=-551/443, 3-8=0/191

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 9-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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 53 lb uplift at joint 2 and 56 lb uplift at joint 7.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

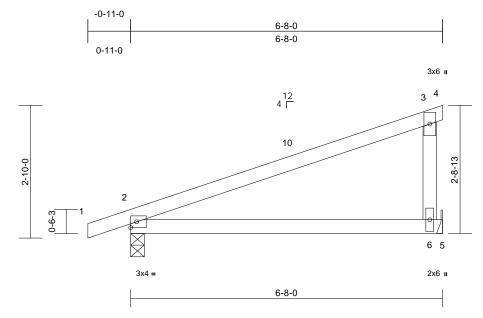




Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	M03	Monopitch	3	1	Job Reference (optional)	176952527

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.03	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MR		Wind(LL)	0.04	6-9	>999	240	Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 6= Mechanical

Max Horiz 2=87 (LC 8)

Max Uplift 2=-48 (LC 8), 6=-42 (LC 12) Max Grav 2=315 (LC 1), 6=263 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-216/56, 3-4=-2/0,

3-6=-162/263 BOT CHORD

2-6=-338/166, 5-6=0/0

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 6-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2 and 42 lb uplift at joint 6.

LOAD CASE(S) Standard



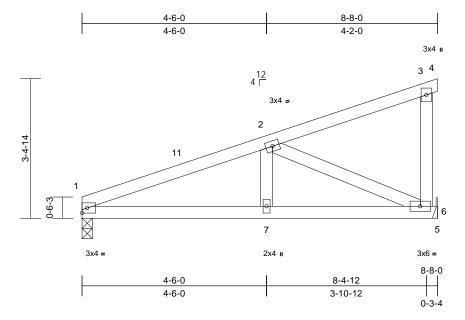
October 10,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	M04	MONOPITCH	4	1	Job Reference (optional)	176952528

Run: 25.30 S. Oct. 2.2025 Print: 25.3.0 S. Oct. 2.2025 MiTek Industries. Inc. Thu Oct. 09.10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.02	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 39 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-3-0, 6= Mechanical

Max Horiz 1=94 (LC 8)

Max Uplift 1=-111 (LC 8), 6=-149 (LC 8) Max Grav 1=336 (LC 1), 6=347 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-545/466, 2-3=-62/23, 3-4=-2/0,

3-6=-97/147

BOT CHORD 1-7=-611/482, 6-7=-611/482, 5-6=0/0

WEBS 2-6=-527/667, 2-7=-117/185

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-6-0, Interior (1) 4-6-0 to 8-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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 111 lb uplift at joint 1 and 149 lb uplift at joint 6.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

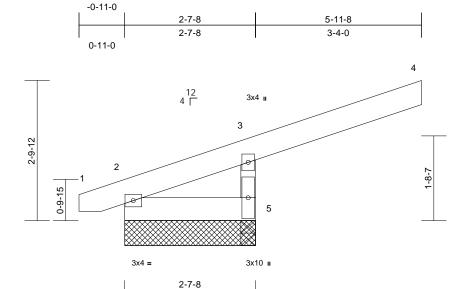




Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	M05	Monopitch Structural Gable	2	1	Job Reference (optional)	76952529

Run: 25.30 S. Oct. 2.2025 Print: 25.3.0 S. Oct. 2.2025 MiTek Industries. Inc. Thu Oct. 09.10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.00	5-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	5-8	>999	240	Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2=2-7-8, 5=2-7-8

Max Horiz 2=76 (LC 9) Max Uplift 5=-216 (LC 9)

Max Grav 2=97 (LC 9), 5=449 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/13, 2-3=-244/102, 3-4=-66/0,

3-5=-463/703 BOT CHORD 2-5=-50/22

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior (1) 3-8-8 to 5-11-8 zone; cantilever 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.
- 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint

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.

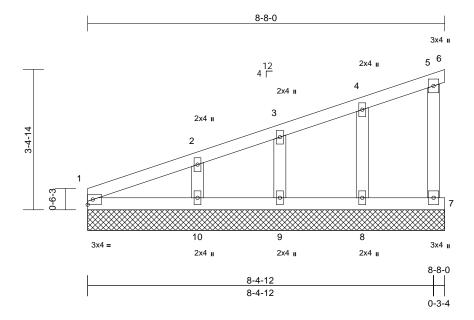
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	M05GE	GABLE	1	1	Job Reference (optional)	176952530

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS 2x4 SP No.2 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 10-0-0 oc

bracing.

REACTIONS (size) 1=8-8-0, 6=8-8-0, 7=8-8-0, 8=8-8-0,

9=8-8-0, 10=8-8-0 Max Horiz 1=101 (LC 8)

Max Uplift 6=-4 (LC 1), 7=-17 (LC 8), 8=-25 (LC 8), 9=-21 (LC 8), 10=-43 (LC 8)

Max Grav 1=87 (LC 1), 6=2 (LC 8), 7=75 (LC 1), 8=168 (LC 1), 9=139 (LC 1),

10=223 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-285/90, 2-3=-169/50, 3-4=-108/36,

4-5=-37/14, 5-6=-6/2, 5-7=-62/99 **BOT CHORD** 1-10=0/0, 9-10=0/0, 8-9=0/0, 7-8=0/0

WEBS 4-8=-125/202, 3-9=-105/167, 2-10=-167/296

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-0 to 4-8-0, Exterior(2N) 4-8-0 to 8-8-0 zone; 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) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 6, 17 lb uplift at joint 7, 25 lb uplift at joint 8, 21 lb uplift at joint 9 and 43 lb uplift at joint 10.

LOAD CASE(S) Standard



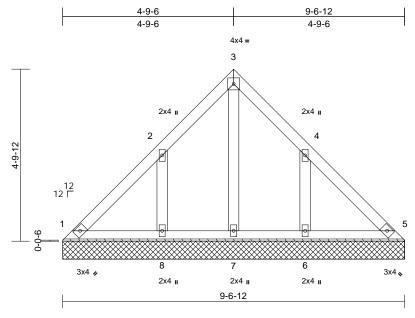
October 10,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	V1	Valley	1	1	Job Reference (optional)	176952531

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 46 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=9-6-12, 5=9-6-12, 6=9-6-12,

7=9-6-12, 8=9-6-12 Max Horiz 1=-107 (LC 8)

Max Uplift 1=-11 (LC 8), 6=-111 (LC 13),

8=-112 (LC 12)

1=113 (LC 20), 5=99 (LC 19), Max Grav 6=250 (LC 20), 7=101 (LC 22),

8=250 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-141/86, 2-3=-99/126, 3-4=-99/139, 4-5=-92/65

1-8=-63/120, 7-8=-63/120, 6-7=-63/120, 5-6=-63/120

WEBS 3-7=-94/29, 2-8=-223/324, 4-6=-223/253

NOTES

BOT CHORD

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- 6) 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 112 lb uplift at joint 8 and 111 lb uplift at joint 6.

LOAD CASE(S) Standard

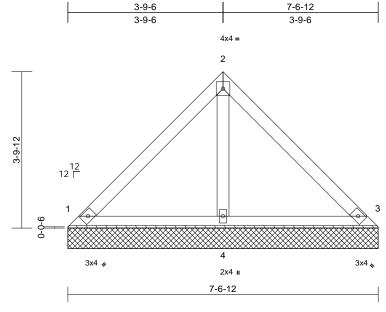


October 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	V2	Valley	1	1	Job Reference (optional)	176952532

Run: 25.30 S. Oct. 2.2025 Print: 25.3.0 S. Oct. 2.2025 MiTek Industries. Inc. Thu Oct. 09.10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 31 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-6-12, 3=7-6-12, 4=7-6-12

Max Horiz 1=-83 (LC 8)

Max Uplift 1=-30 (LC 13), 3=-30 (LC 13) Max Grav 1=169 (LC 1), 3=169 (LC 1), 4=217

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-126/85, 2-3=-114/108

BOT CHORD 1-4=-24/59, 3-4=-24/59

WFBS 2-4=-130/97

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 30 lb uplift at joint 3.

LOAD CASE(S) Standard



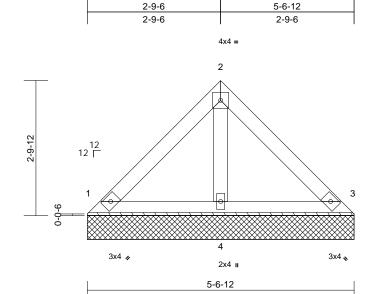
October 10,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek
251542-A	V3	Valley	1	1	Job Reference (optional)

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Scale = 1:24

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-8 oc purlins.

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

bracing.

REACTIONS (size) 1=5-6-12, 3=5-6-12, 4=5-6-12

Max Horiz 1=59 (LC 9)

Max Uplift 1=-21 (LC 13), 3=-21 (LC 13)

Max Grav 1=120 (LC 1), 3=120 (LC 1), 4=154

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-90/69, 2-3=-81/87 BOT CHORD 1-4=-17/47, 3-4=-17/47

WFBS 2-4=-92/82

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.

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.

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

a truss system. Before use, the building designer must verify the applicability of design parameters and property 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)



818 Soundside Road Edenton, NC 27932

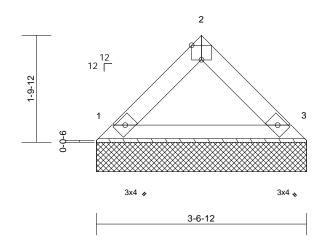
Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	V4	Valley	1	1	Job Reference (optional)	i34

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x4 =



Scale = 1:19.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins.

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

bracing.

REACTIONS (size) 1=3-6-12, 3=3-6-12

Max Horiz 1=-35 (LC 8)

Max Uplift 1=-4 (LC 13), 3=-4 (LC 13) Max Grav 1=117 (LC 1), 3=117 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-87/79, 2-3=-87/96

BOT CHORD 1-3=-9/50

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) $Vasd=103mph;\ TCDL=6.0psf;\ BCDL=6.0psf;\ h=15ft;\ Cat.$ II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint 3.

LOAD CASE(S) Standard

minim

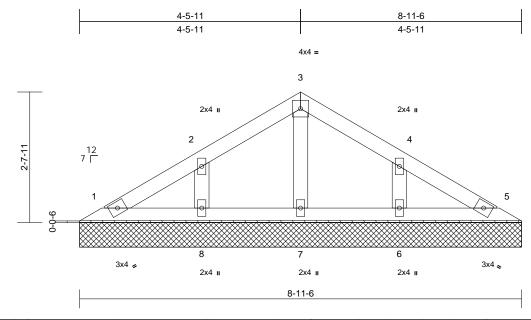
October 10,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	V6	Valley	1	1	Job Reference (optional)	

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Thu Oct 09 10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.3

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

REACTIONS (size) 1=8-11-6, 5=8-11-6, 6=8-11-6,

7=8-11-6, 8=8-11-6 Max Horiz 1=56 (LC 9)

Max Uplift 1=-1 (LC 13), 6=-51 (LC 13), 8=-51

(LC 12)

1=67 (LC 20), 5=67 (LC 1), 6=205 Max Grav (LC 20), 7=115 (LC 1), 8=205 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-52/48, 2-3=-64/117, 3-4=-64/117, 4-5=-38/32

1-8=-19/66, 7-8=-19/66, 6-7=-19/66, 5-6=-19/66

WEBS 3-7=-77/0, 2-8=-162/248, 4-6=-162/248

NOTES

BOT CHORD

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone;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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- 6) 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 51 lb uplift at joint 8 and 51 lb uplift at joint 6.

LOAD CASE(S) Standard



October 10,2025

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

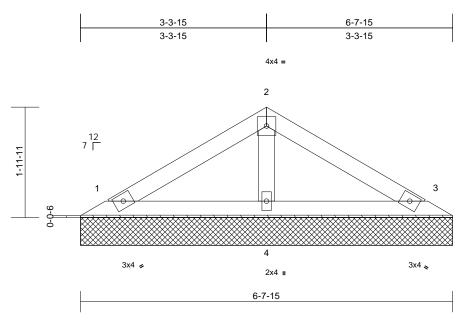
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	V7	Valley	1	1	Job Reference (optional)	176952536

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries. Inc. Thu Oct 09 10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-7-15, 3=6-7-15, 4=6-7-15

Max Horiz 1=-40 (LC 8)

Max Uplift 1=-19 (LC 12), 3=-23 (LC 13) Max Grav 1=119 (LC 1), 3=119 (LC 1), 4=214

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-66/52, 2-3=-60/52 BOT CHORD 1-4=-7/28, 3-4=-7/28 WFBS 2-4=-143/111

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 23 lb uplift at joint 3.

LOAD CASE(S) Standard



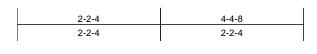
October 10,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-A	V8	Valley	1	1		76952537

Run: 25.30 S. Oct. 2.2025 Print: 25.3.0 S. Oct. 2.2025 MiTek Industries. Inc. Thu Oct. 09.10:11:41 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

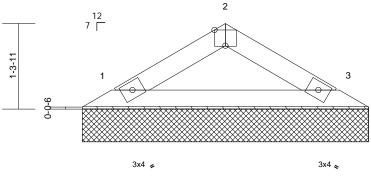
Page: 1



4-4-8

3x4 =





Scale = 1:17.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-12 oc purlins.

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

bracing.

REACTIONS (size) 1=4-4-8, 3=4-4-8

Max Horiz 1=24 (LC 11)

Max Uplift 1=-8 (LC 12), 3=-8 (LC 13)

Max Grav 1=134 (LC 1), 3=134 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-119/107, 2-3=-119/107

BOT CHORD 1-3=-51/85

NOTES

FORCES

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint 3.

LOAD CASE(S) Standard

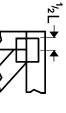


October 10,2025

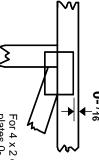


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

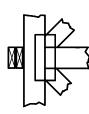
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



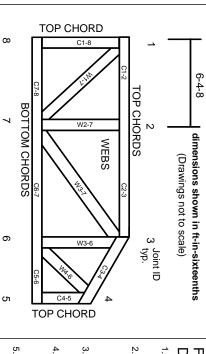
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

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

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- 9 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 251542-B

Lot 59 Duncan's Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I76722528 thru I76722541

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



October 1,2025

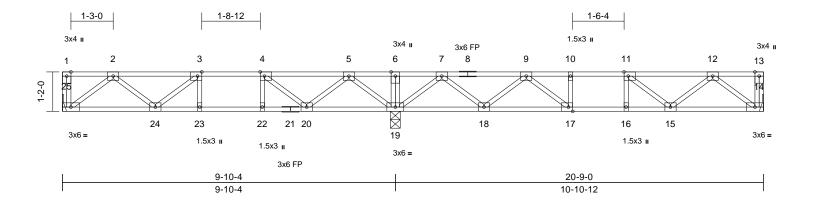
Gilbert, Eric

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	Lot 59 Duncan's Creek	
251542-B	F01	Floor	8	1	Job Reference (optional)	76722528

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:56 ID: OJmV jnya Ayz 5P3t7 HPvK2hz iFs2-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for the property of the pr

Page: 1



Scale = 1:34.1

Plate Offsets (X, Y): [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.04	23-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.06	23-24	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

LUMBER

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

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: 19-20,18-19.

REACTIONS (size) 14= Mechanical, 19=0-3-8, 25=

Mechanical

Max Grav 14=432 (LC 7), 19=1038 (LC 1),

25=388 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-25/0, 13-14=-29/0, 1-2=0/0,

2-3=-657/0, 3-4=-805/0, 4-5=-485/139, 5-6=0/749, 6-7=0/749, 7-9=-546/42,

9-10=-1004/0, 10-11=-1004/0, 11-12=-770/0,

12-13=0/0

BOT CHORD 24-25=0/468, 23-24=0/805, 22-23=0/805,

20-22=0/805, 19-20=-284/189,

18-19=-173/197, 17-18=0/876, 16-17=0/1004,

15-16=0/1004, 14-15=0/519

6-19=-84/0, 5-19=-733/0, 2-25=-587/0,

5-20=0/451, 2-24=0/246, 4-20=-506/0, 3-24=-189/66, 3-23=-110/0, 4-22=0/132,

7-19=-821/0, 12-14=-651/0, 7-18=0/501, 12-15=0/327, 9-18=-486/0, 11-15=-299/0, 9-17=0/325, 10-17=-128/0, 11-16=-69/33

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.

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



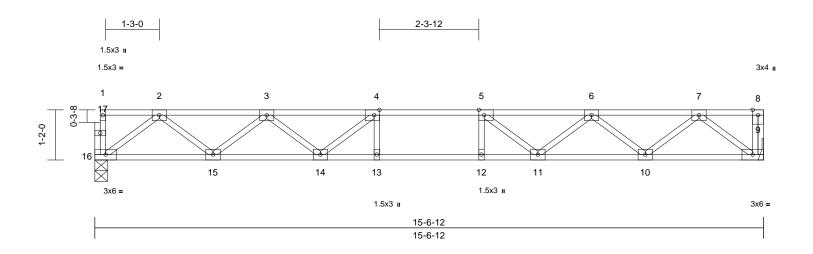
October 1,2025



Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek
251542-B	F02	Floor	11	1	Job Reference (optional)

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Page: 1



Scale = 1:26.8

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.15	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.19	11-12	>947	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(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) 9= Mechanical, 16=0-3-8 Max Grav 9=673 (LC 1), 16=668 (LC 1) **FORCES**

Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-16=-33/0, 8-9=-36/0, 1-2=-2/0, 2-3=-1381/0,

3-4=-2174/0, 4-5=-2441/0, 5-6=-2174/0,

6-7=-1381/0, 7-8=0/0

BOT CHORD 15-16=0/831, 14-15=0/1903, 13-14=0/2441,

12-13=0/2441, 11-12=0/2441, 10-11=0/1903,

9-10=0/831

WEBS 2-16=-1040/0, 2-15=0/716, 3-15=-680/0, 3-14=0/401, 7-9=-1043/0, 7-10=0/716,

6-10=-680/0, 6-11=0/401, 5-11=-499/0,

4-14=-499/0, 4-13=-102/132, 5-12=-102/132

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 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



October 1,2025

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

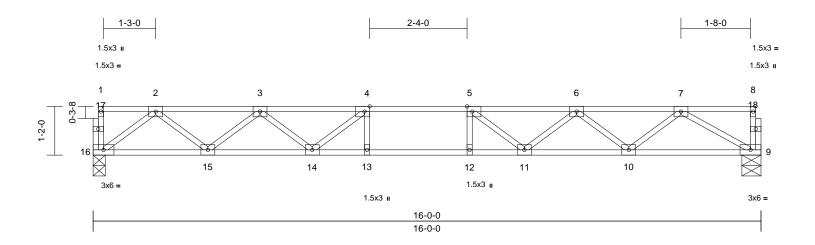
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 59 Duncan's Creek	
251542-B	F03	Floor	3	1	Job Reference (optional)	176722530

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.6

Plate Offsets	(X, \	Y):	[4:0-1-8,Edge],	[5:0-1-8,Edge]
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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.17	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.23	11-12	>825	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%F, 11%E

LUMBER

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

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 (size) 9=0-5-8, 16=0-3-8

Max Grav 9=688 (LC 1), 16=688 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-16=-33/0, 8-9=-53/0, 1-2=-2/0, 2-3=-1429/0,

3-4=-2269/0, 4-5=-2581/0, 5-6=-2355/0,

6-7=-1608/0, 7-8=-3/0

BOT CHORD 15-16=0/857, 14-15=0/1971, 13-14=0/2581,

12-13=0/2581, 11-12=0/2581, 10-11=0/2110,

9-10=0/1077

WEBS 2-16=-1073/0, 2-15=0/744, 3-15=-706/0,

3-14=0/433, 4-14=-551/0, 4-13=-91/152, 7-9=-1242/0. 7-10=0/691. 6-10=-654/0. 6-11=0/385, 5-11=-474/0, 5-12=-121/121

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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



October 1,2025

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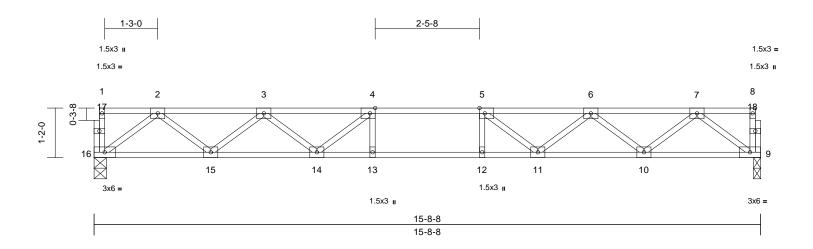
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 59 Duncan's Creek	
251542-B	F04	Floor	3	1	Job Reference (optional)	1

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.16	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.21	13-14	>897	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 9=0-2-0, 16=0-3-8

Max Grav 9=675 (LC 1), 16=675 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-33/0, 8-9=-33/0, 1-2=-2/0, 2-3=-1396/0,

3-4=-2206/0, 4-5=-2484/0, 5-6=-2206/0,

6-7=-1396/0, 7-8=-2/0

BOT CHORD 15-16=0/839, 14-15=0/1926, 13-14=0/2484,

12-13=0/2484, 11-12=0/2484, 10-11=0/1926,

9-10=0/839

WEBS 2-16=-1051/0, 2-15=0/725, 3-15=-689/0, 3-14=0/414, 4-14=-517/0, 4-13=-102/134,

7-9=-1051/0. 7-10=0/725. 6-10=-689/0.

6-11=0/414, 5-11=-517/0, 5-12=-102/134

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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



October 1,2025



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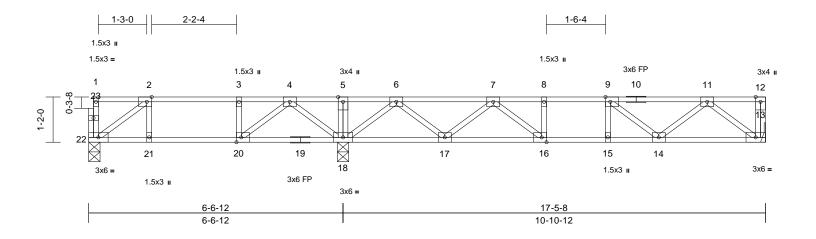
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 59 Duncan's Creek	
251542-B	F05	Floor	4	1	Job Reference (optional)	22532

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID: OJmV jnya Ayz 5P3t7 HPvK2hz iFs2-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for the property of the pr

Page: 1



Scale = 1:29.7

Plate Offsets (X, Y): [2:0-1-8,Edge], [9:0-1-8,Edge], [16:0-1-8,Edge], [20:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.04	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.05	16-17	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.1(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 6-0-0 oc

bracing.

REACTIONS (size)

13= Mechanical, 18=0-3-8,

22=0-3-8

13=443 (LC 4), 18=886 (LC 8), Max Grav

22=227 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-22=-50/0, 12-13=-30/0, 1-2=-3/0,

2-3=-267/21, 3-4=-267/21, 4-5=0/519, 5-6=0/519, 6-7=-636/0, 7-8=-1054/0, 8-9=-1054/0, 9-11=-798/0, 11-12=0/0

BOT CHORD 21-22=-21/267, 20-21=-21/267,

18-20=-171/51, 17-18=-123/295, 16-17=0/950, 15-16=0/1054, 14-15=0/1054,

13-14=0/532

WEBS 5-18=-110/0, 4-18=-491/0, 2-22=-327/28,

4-20=0/376, 2-21=-17/18, 3-20=-194/0, 6-18=-778/0, 11-13=-667/0, 6-17=0/473, 11-14=0/347, 7-17=-448/0, 9-14=-327/0, 7-16=0/307, 8-16=-122/0, 9-15=-63/50

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.

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



October 1,2025

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

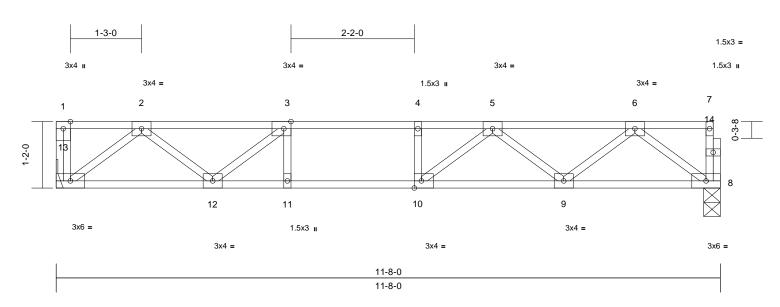
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Job		Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251	542-B	F06	Floor	4	1	Job Reference (optional)	176722533

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:20.2

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.09	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.12	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD

NOTES

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, 13= Mechanical Max Grav 8=497 (LC 1), 13=502 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-13=-37/0, 7-8=-29/0, 1-2=0/0, 2-3=-952/0,

3-4=-1330/0, 4-5=-1330/0, 5-6=-953/0,

6-7=-2/0

BOT CHORD 12-13=0/599, 11-12=0/1330, 10-11=0/1330,

9-10=0/1253, 8-9=0/611

WEBS 6-8=-764/0, 2-13=-751/0, 6-9=0/446, 2-12=0/459. 5-9=-390/0. 3-12=-501/0. 5-10=-33/285, 3-11=-22/114, 4-10=-135/0

- 1) Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center
- Refer to girder(s) for truss to truss connections.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



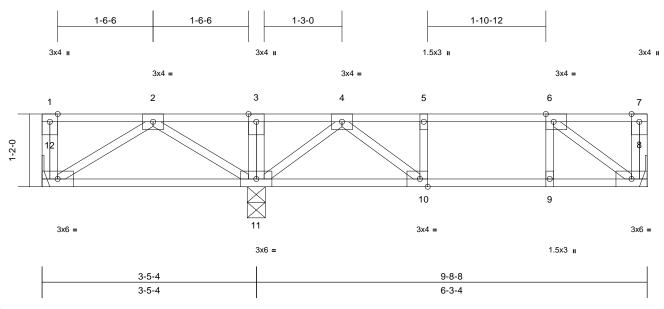
October 1,2025



Job	Truss	Truss Type	Qty Ply Lot 59 Duncan's Creek	Lot 59 Duncan's Creek		
251542-B	F07	Floor	2	1	Job Reference (optional)	176722534

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:18.5

Plate Offsets (X, Y): [6:0-1-8,Edge], [10:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.01	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.01	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

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

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 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 11-12.

REACTIONS (size)

8= Mechanical, 11=0-3-8, 12= Mechanical

Max Uplift 12=-59 (LC 4)

Max Grav 8=280 (LC 4), 11=714 (LC 7),

12=147 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-66/0, 7-8=-51/6, 1-2=0/0, 2-3=0/391,

3-4=0/390, 4-5=-316/0, 5-6=-316/0, 6-7=0/0

BOT CHORD 11-12=-137/109, 10-11=0/90, 9-10=0/316,

8-9=0/316

WEBS 3-11=-159/0, 2-12=-129/162, 2-11=-404/0,

4-11=-511/0, 6-8=-390/0, 4-10=0/297,

5-10=-170/0, 6-9=0/29

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 4) bearing plate capable of withstanding 59 lb uplift at joint
- 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.



October 1,2025

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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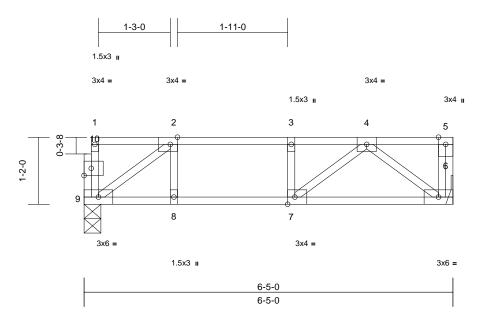
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 59 Duncan's Creek	
251542-B	F09	Floor	2	1	Job Reference (optional)	176722535

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Scale = 1:20

Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,0-1-8]

		1			-	-	-	-	-			-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.05	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%F, 11%

LUMBER

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(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
 (size)
 6= Mechanical, 9=0-3-8

 Max Grav
 6=339 (LC 1), 9=333 (LC 1)

 FORCES
 (lb) - Maximum Compression/Maximum

Tension

Tension 1-9=-38/38, 5-6=-51/0, 1-2=-2/2, 2-3=-458/0,

3-4=-458/0, 4-5=0/0

BOT CHORD 8-9=0/458, 7-8=0/458, 6-7=0/352

WEBS 4-6=-441/0, 2-9=-564/0, 4-7=0/197, 2-8=0/83,

3-7=-106/0

NOTES

TOP CHORD

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

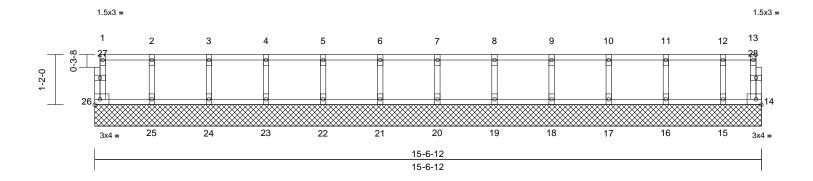


October 1,2025

Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-B	FKW1	Floor Supported Gable	1	1	Job Reference (optional)	76722536

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 $ID: 0 \\ Iz 1 \\ y 1 \\ Y \\ mp 4 \\ Dg Th BTc 3 \\ A \\ iE 0 \\ y Y \\ Uh \\ J-Rf C? \\ Ps B7 \\ OHq 3 \\ NSg Pqn \\ L8 \\ w \\ 3u \\ ITX \\ bG \\ KW \\ rCD \\ oi \\ 7J4 \\ zJC? \\ full in the property of the pr$

Page: 1



Scale = 1:26.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 66 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 14=15-6-12, 15=15-6-12, 16=15-6-12, 17=15-6-12, 18=15-6-12, 19=15-6-12, 20=15-6-12, 21=15-6-12, 22=15-6-12, 23=15-6-12,

24=15-6-12, 25=15-6-12, 26=15-6-12

Max Grav 14=31 (LC 1), 15=117 (LC 1), 16=153 (LC 1), 17=145 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1),

26=53 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-49/0, 13-14=-25/0, 1-2=-7/0, 2-3=-7/0,

3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0,

11-12=-7/0, 12-13=-7/0

BOT CHORD 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7,

21-22=0/7, 20-21=0/7, 19-20=0/7, 18-19=0/7, 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7

WEBS 2-25=-132/0, 3-24=-134/0, 4-23=-133/0, 5-22=-133/0. 6-21=-133/0. 7-20=-133/0. 8-19=-133/0, 9-18=-134/0, 10-17=-132/0,

11-16=-138/0, 12-15=-109/0

NOTES

All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.

- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 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



October 1,2025

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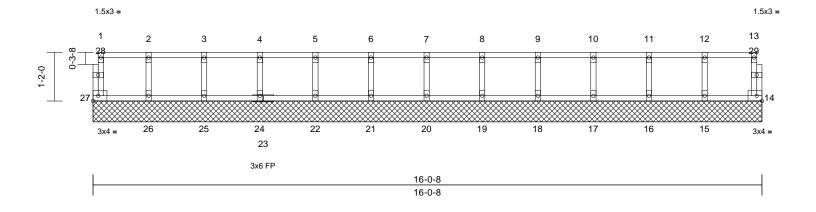
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 59 Duncan's Creek	
251542-B	FKW2	Floor Supported Gable	1	1	I767 Job Reference (optional)	722537

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:nHS2dmenxYEXQwo?4kJaZiyYUhB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 67 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

14=16-0-8, 15=16-0-8, 16=16-0-8, 17=16-0-8, 18=16-0-8, 19=16-0-8, 20=16-0-8, 21=16-0-8, 22=16-0-8, 24=16-0-8, 25=16-0-8, 26=16-0-8, 27=16-0-8

Max Grav 14=58 (LC 1), 15=146 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 24=146 (LC 1), 25=148 (LC 1), 26=142 (LC 1),

27=57 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-27=-51/0, 13-14=-53/0, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0, 7-8=-10/0, 8-9=-10/0, 9-10=-10/0,

10-11=-10/0, 11-12=-10/0, 12-13=-10/0 26-27=0/10, 25-26=0/10, 24-25=0/10,

BOT CHORD 22-24=0/10, 21-22=0/10, 20-21=0/10,

19-20=0/10, 18-19=0/10, 17-18=0/10, 16-17=0/10, 15-16=0/10, 14-15=0/10

2-26=-130/0, 3-25=-134/0, 4-24=-133/0, 5-22=-133/0, 6-21=-133/0, 7-20=-133/0, 8-19=-133/0 9-18=-133/0 10-17=-133/0

11-16=-134/0, 12-15=-133/0

NOTES

WEBS

1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.

- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 6) 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



October 1,2025



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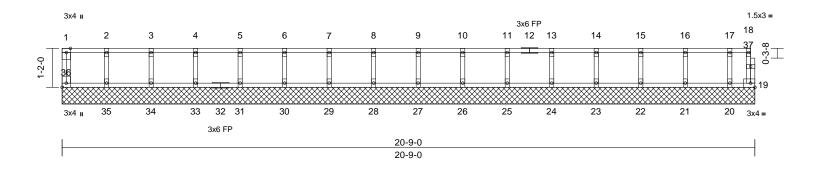
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 59 Duncan's Creek	
251542-B	FKW3	Floor Supported Gable	1	1	I7 Job Reference (optional)	76722538

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:10VSWrlRpJMG?J_k67zhQbyYUh2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.5

Plate Offsets (X, Y): [36:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 87 lb	FT = 20%F, 11%E

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

2x4 SP No.3(flat) 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) 19=20-9-0, 20=20-9-0, 21=20-9-0, 22=20-9-0, 23=20-9-0, 24=20-9-0, 25=20-9-0, 26=20-9-0, 27=20-9-0, 28=20-9-0, 29=20-9-0, 30=20-9-0,

31=20-9-0, 33=20-9-0, 34=20-9-0, 35=20-9-0, 36=20-9-0

Max Grav 19=21 (LC 1), 20=110 (LC 1), 21=153 (LC 1), 22=145 (LC 1),

23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 28=147 (LC 1), 29=147 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 33=147 (LC 1),

34=147 (LC 1), 35=148 (LC 1), 36=58 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-36=-54/0, 18-19=-15/0, 1-2=-6/0, 2-3=-6/0,

3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0. 8-9=-6/0. 9-10=-6/0. 10-11=-6/0. 11-13=-6/0. 13-14=-6/0. 14-15=-6/0. 15-16=-6/0, 16-17=-6/0, 17-18=-6/0

35-36=0/6, 34-35=0/6, 33-34=0/6, 31-33=0/6, BOT CHORD

30-31=0/6, 29-30=0/6, 28-29=0/6, 27-28=0/6, 26-27=0/6, 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6, 21-22=0/6, 20-21=0/6, 19-20=0/6

WEBS

2-35=-133/0, 3-34=-134/0, 4-33=-133/0, 5-31=-133/0, 6-30=-133/0, 7-29=-133/0, 8-28=-133/0, 9-27=-133/0, 10-26=-133/0, 11-25=-133/0, 13-24=-133/0, 14-23=-134/0, 15-22=-132/0, 16-21=-139/0, 17-20=-105/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 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



October 1,2025

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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

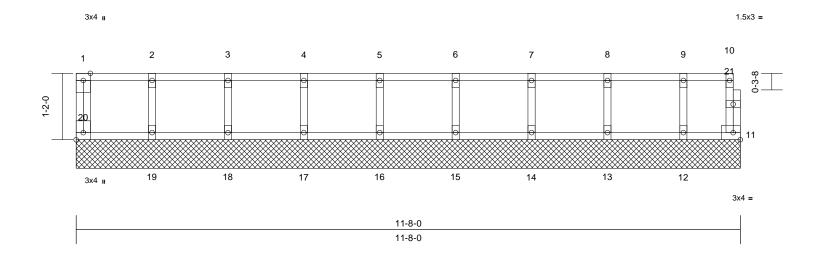
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Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-B	FKW4	Floor Supported Gable	1	1	Job Reference (optional)	176722539

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20.2

Plate Offsets (X, Y): [20:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 51 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 11=11-8-0, 12=11-8-0, 13=11-8-0,

14=11-8-0, 15=11-8-0, 16=11-8-0, 17=11-8-0, 18=11-8-0, 19=11-8-0,

20=11-8-0

Max Grav 11=37 (LC 1), 12=122 (LC 1),

13=152 (LC 1), 14=145 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=147 (LC 1),

19=147 (LC 1), 20=59 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-55/0, 10-11=-31/0, 1-2=-7/0, 2-3=-7/0,

3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0

19-20=0/7, 18-19=0/7, 17-18=0/7, 16-17=0/7, **BOT CHORD**

15-16=0/7, 14-15=0/7, 13-14=0/7, 12-13=0/7,

11-12=0/7

WEBS 2-19=-132/0, 3-18=-134/0, 4-17=-133/0, 5-16=-133/0, 6-15=-134/0, 7-14=-132/0,

8-13=-138/0. 9-12=-113/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 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



October 1,2025

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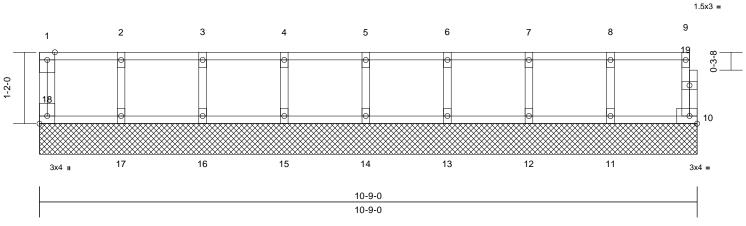


Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-B	FKW5	Floor Supported Gable	1	1	Job Reference (optional)	176722540

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:18.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 47 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 10=10-9-0, 11=10-9-0, 12=10-9-0, 13=10-9-0, 14=10-9-0, 15=10-9-0,

16=10-9-0, 17=10-9-0, 18=10-9-0 10=61 (LC 1), 11=148 (LC 1),

Max Grav

12=147 (LC 1), 13=147 (LC 1), 14=147 (LC 1), 15=146 (LC 1),

16=148 (LC 1), 17=141 (LC 1),

18=64 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-18=-57/0, 9-10=-56/0, 1-2=-11/0, 2-3=-11/0, 3-4=-11/0, 4-5=-11/0, 5-6=-11/0, 6-7=-11/0,

7-8=-11/0, 8-9=-11/0

17-18=0/11, 16-17=0/11, 15-16=0/11,

14-15=0/11, 13-14=0/11, 12-13=0/11,

11-12=0/11, 10-11=0/11

WEBS 2-17=-130/0, 3-16=-134/0, 4-15=-133/0, 5-14=-133/0, 6-13=-133/0, 7-12=-133/0,

8-11=-135/0

NOTES

BOT CHORD

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- 4) 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.

- 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



October 1,2025

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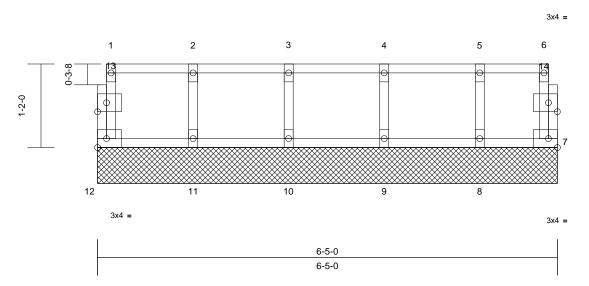


Job	Truss	Truss Type	Qty	Ply	Lot 59 Duncan's Creek	
251542-B	FKW6	Floor Supported Gable	1	1	Job Reference (optional)	176722541

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Sep 30 10:03:58 ID:4ZAfOuLjLdhYedQh3Rh3lbyYTwW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

3x4 =



Scale = 1:16.1

Plate Offsets (X, Y): [13:0-1-8,0-1-8], [14:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 29 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 7=6-5-0, 8=6-5-0, 9=6-5-0,

10=6-5-0, 11=6-5-0, 12=6-5-0 7=42 (LC 1), 8=127 (LC 1), 9=151 Max Grav (LC 1), 10=146 (LC 1), 11=146 (LC

1), 12=54 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-12=-50/0, 6-7=-37/0, 1-2=-8/0, 2-3=-8/0,

TOP CHORD 3-4=-8/0, 4-5=-8/0, 5-6=-8/0

11-12=0/8, 10-11=0/8, 9-10=0/8, 8-9=0/8,

BOT CHORD 7-8=0/8 WEBS

2-11=-132/0, 3-10=-133/0, 4-9=-137/0, 5-8=-117/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 4) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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

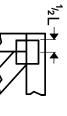


October 1,2025

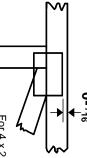


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

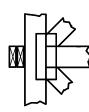
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

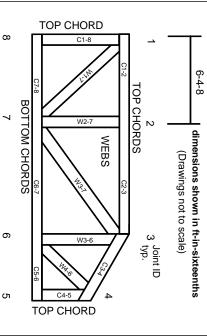
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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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THE NGINEERING BY

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

▲ General Safety Notes

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.
- Cut members to bear tightly against each other.

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- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 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.
- 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.
- 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.
- 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.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.