

reactions less than or equal to 3000# are to comply with the prescriptive Code requirements. The contractor shall refer to the Tables (derived from the prescriptive Code) to determine the minimum foundation number of wood studs required to support a reaction greater than 3000# but not greater than 5000#. A registered design professional shall be required to design the support system for any reaction that exceeds those specified in the attached tables. A registered design professional shall be required to design the support system for all reactions that exceed 15000#.

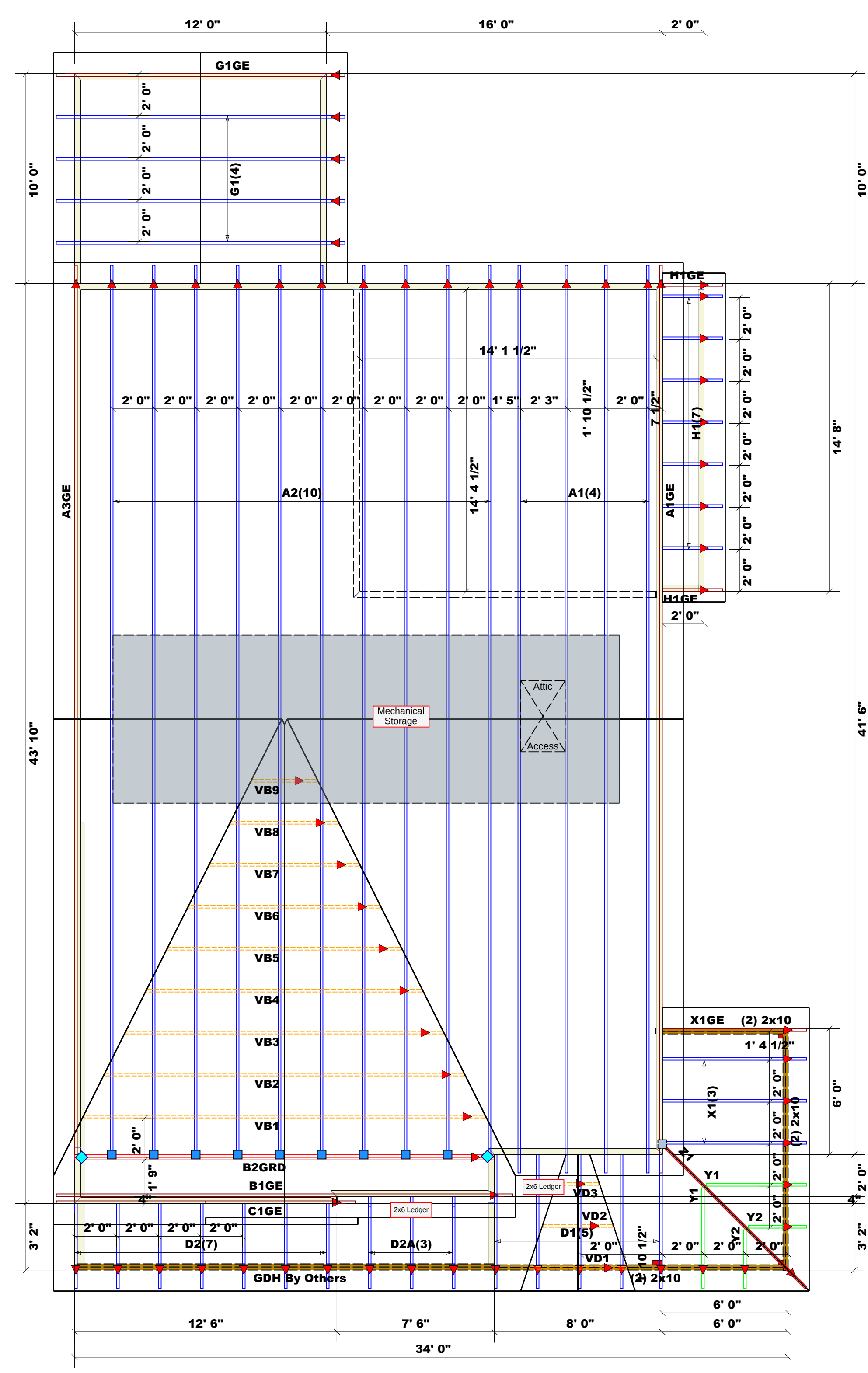
Sales Area

ADDRESS	Bluestone Drive
MODEL	Roof & Floor
DATE REV.	09/09/25
DRAWN BY	Hampton Horrocks
SALES REP.	House Account

JOB NAME	24 Duncan's Creek
PLAN	Smithfield French Country
SEAL DATE	08/27/25
QUOTE #	Quote #
JOB #	250917-A&B

REQ'D STUDS FOR (2) 1" HEADER	END SECTON (AP TO)	REQ'D STUDS FOR (3) 1" HEADER	END SECTON (AP TO)	REQ'D STUDS FOR (2) 1" HEADER
1	2550	1	3400	1
2	5100	2	6800	2
3	7650	3	10200	3
4	10200	4	13600	4
5	12750	5	17000	5
6	15300	6		
7				
8				
9				

Roof Truss Plan



= Denotes Left End of Truss ▲
(Reference Engineered Truss Drawing)

		Products		
Net Qty	Plies	Product	Length	PlotID
2	2	1-3/4"x 16" LVL Kerto-S	20' 10 1/2"	(2) 1.75"x16" LVL
2	2	1-3/4"x 16" LVL Kerto-S	20' 0"	(2) 1.75" x 16" LVL
2	2	1-3/4"x 16" LVL Kerto-S	14' 8"	(2) 1.75" x 16" LVL
3	3	1-3/4"x 16" LVL Kerto-S	12' 0"	(3) 11.75" x 16" LVL
2	2	1-3/4"x 16" LVL Kerto-S	6' 11 1/2"	(2) 1.75" x 16" LVL
2	2	1-3/4"x 16" LVL Kerto-S	6' 0 1/2"	(2) 1.75" x 16" LVL
1	1	1-3/4"x 16" LVL Kerto-S	3' 8 1/2"	1.75" x 16" LVL
2	2	1-3/4"x 16" LVL Kerto-S	3' 5 1/2"	(2) 1.75"x16" LVL

Dimension Notes
1. All exterior wall to wall dimensions are to face of stud 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

= 2098.68 sq.ft.	Roof Area
= 64.58 ft.	Ridge Line
= 10.78 ft.	Hip Line
= 155.21 ft.	Horiz. OH
= 191.34 ft.	Raked OH
= 72 sheets	Decking

= Denotes Left End of Truss ▲
(Reference Engineered Truss Drawing)

Truss Placement Plan
SCALE: 1/4" = 1'

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 250917-B
Lot 24 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: I76233434 thru I76233444

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

North Carolina COA: C-0844



September 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	Qty	Ply	Lot 24 Duncan's Creek
250917-B	F00	Floor	1	1	I76233434

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:02 2025 Page 1
ID:_09zqKsf9De2KkT15adaCvyCKWg-2yk4?xwU5dMikh5a8FwLE7S?aaVTz?iN45z8ZXyfJmd

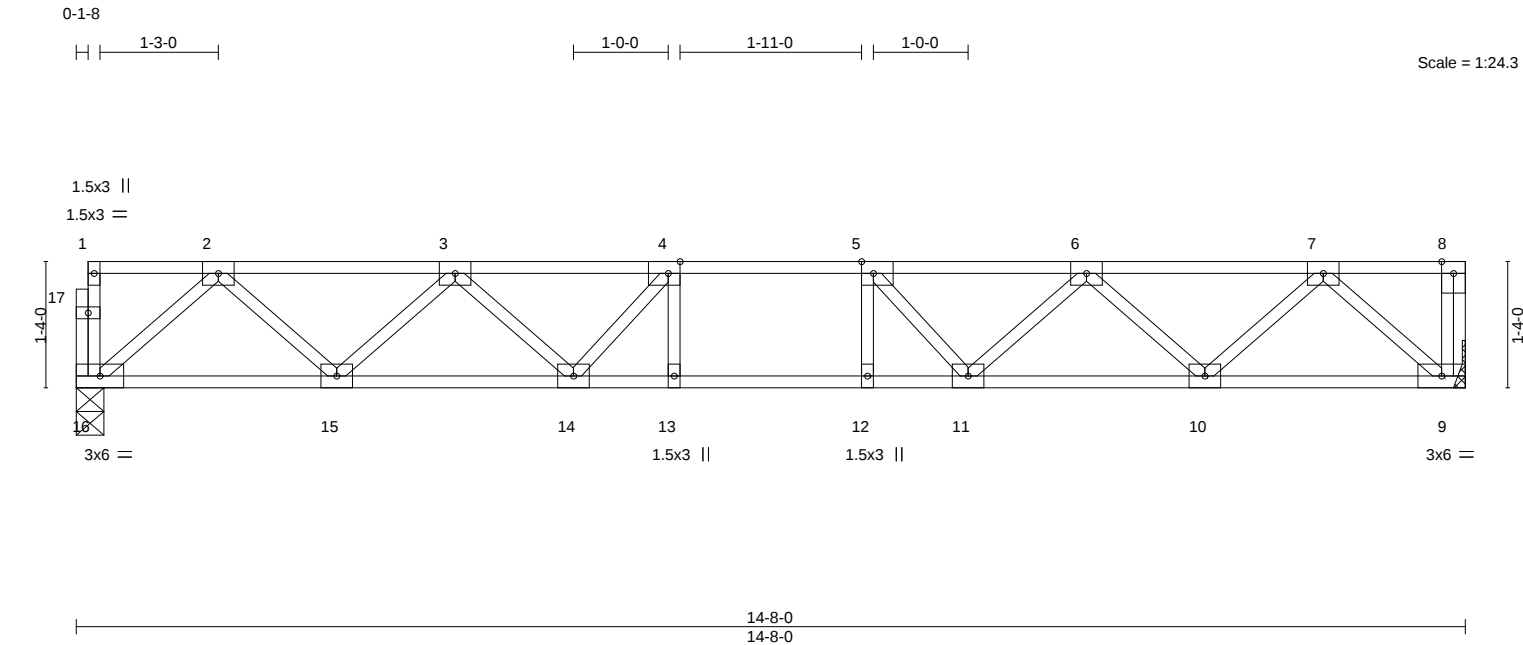


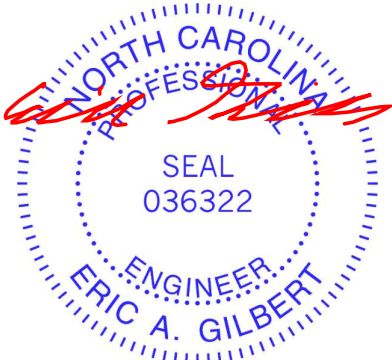
Plate Offsets (X,Y)--		[4:0-1-8,Edge], [5:0-1-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32
TCDL 10.0	Lumber DOL	1.00	BC 0.65
BCLL 0.0	Rep Stress Incr	YES	WB 0.36
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.11 11-12 >999 480
			Vert(CT) -0.15 11-12 >999 360
			Horz(CT) 0.03 9 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 77 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 16=0-3-8, 9=Mechanical
Max Grav 16=787(LC 1), 9=793(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1383/0, 3-4=-2143/0, 4-5=-2341/0, 5-6=-2143/0, 6-7=-1383/0
BOT CHORD 15-16=0/842, 14-15=0/1893, 13-14=0/2341, 12-13=0/2341, 11-12=0/2341, 10-11=0/1893, 9-10=0/843
WEBS 2-16=-1119/0, 2-15=0/752, 3-15=-710/0, 3-14=0/414, 7-9=-1122/0, 7-10=0/752, 6-10=-710/0, 6-11=0/414, 5-11=-471/0, 4-14=-471/0

- NOTES-
- Unbalanced floor live loads have been considered for 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 10-0-0 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.



September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-B	F01	Floor	4	1	176233435

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:03 2025 Page 1
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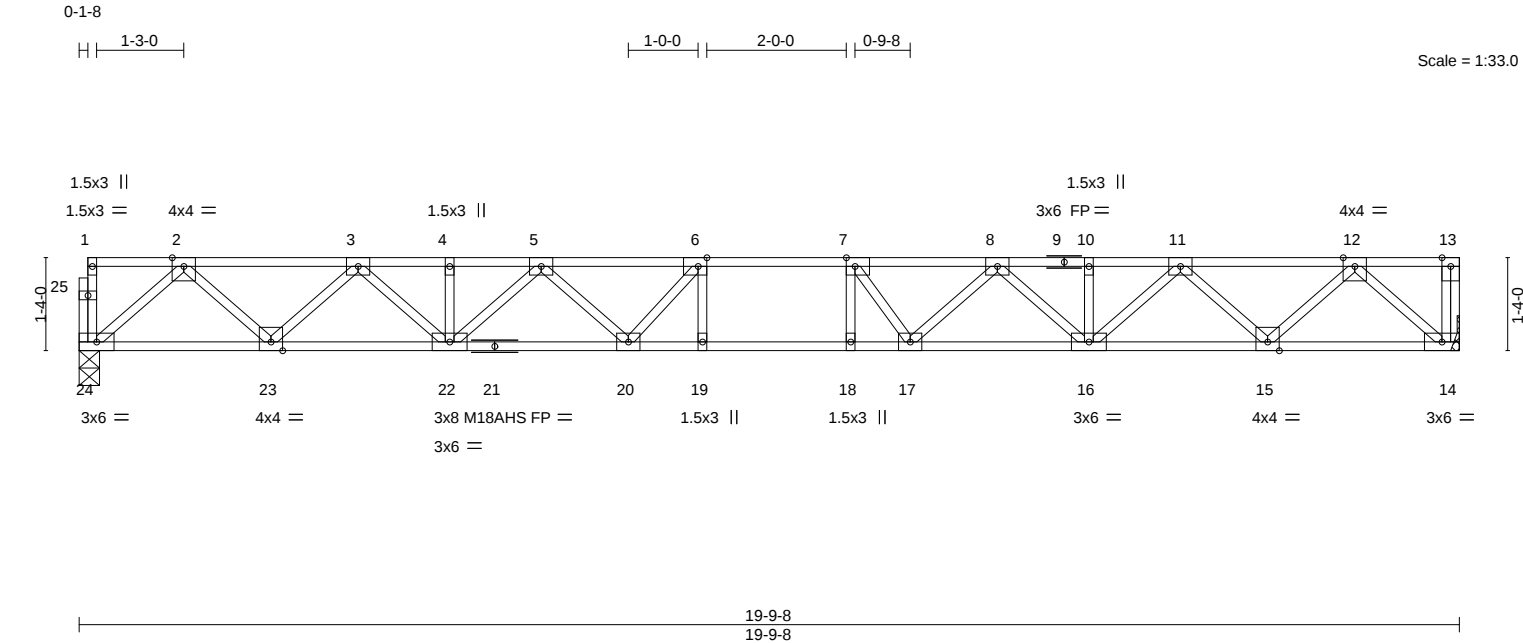


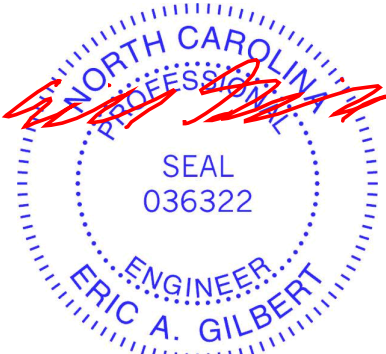
Plate Offsets (X,Y)--		[6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.39
TCDL 10.0	Lumber DOL	1.00	BC 0.86
BCLL 0.0	Rep Stress Incr	YES	WB 0.44
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.26	19	>916
Vert(CT)	-0.35	18-19	>665
Horz(CT)	0.07	14	n/a
PLATES	GRIP		
MT20	244/190		
M18AHS	186/179		
Weight: 105 lb	FT = 20%F, 11%E		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=0-3-8, 14=Mechanical
Max Grav 24=854(LC 1), 14=859(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1591/0, 3-4=-2703/0, 4-5=-2703/0, 5-6=-3298/0, 6-7=-3448/0, 7-8=-3304/0, 8-10=-2705/0, 10-11=-2705/0, 11-12=-1591/0
BOT CHORD 23-24=0/931, 22-23=0/2228, 20-22=0/3096, 19-20=0/3448, 18-19=0/3448, 17-18=0/3448, 16-17=0/3089, 15-16=0/2228, 14-15=0/931
WEBS 2-24=-1237/0, 2-23=0/919, 3-23=-886/0, 3-22=0/645, 12-14=-1240/0, 12-15=0/918, 11-15=-886/0, 11-16=0/649, 8-16=-522/0, 8-17=0/426, 5-22=-535/0, 5-20=0/401, 6-20=-470/86, 7-17=-497/90

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



September 10,2025

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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.sbcacompoments.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-B	F02	Floor	4	1	176233436

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:03 2025 Page 1
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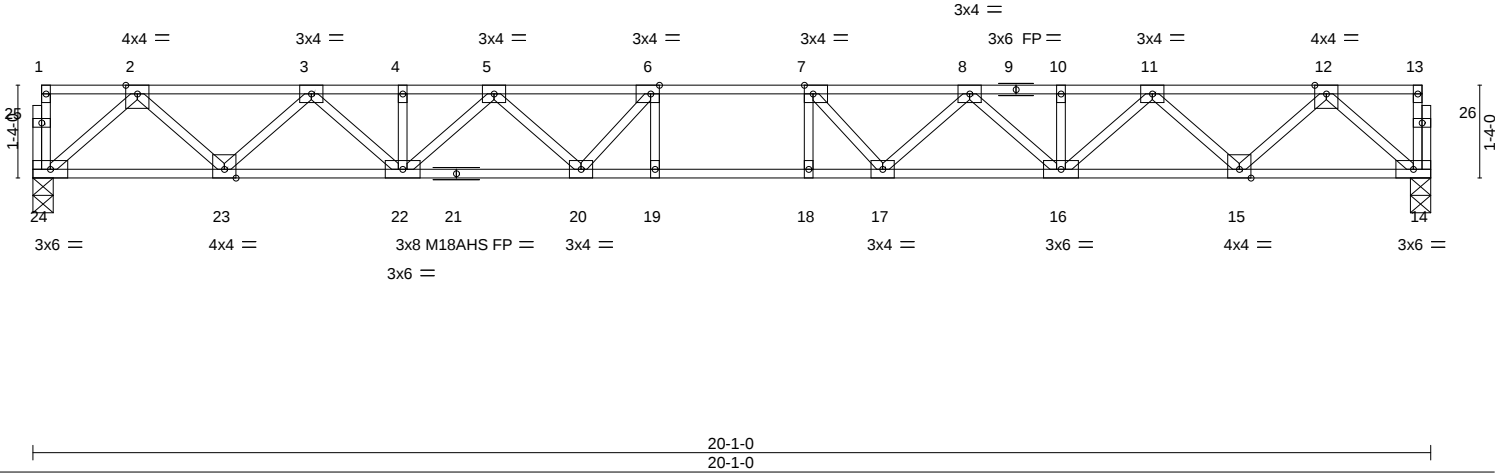
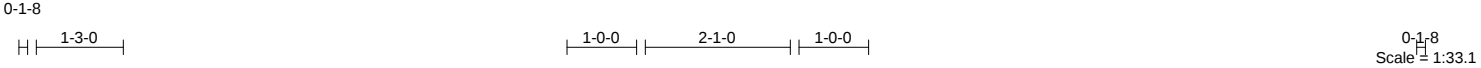


Plate Offsets (X,Y)--		[6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40
TCDL 10.0	Lumber DOL	1.00	BC 0.88
BCLL 0.0	Rep Stress Incr	YES	WB 0.45
BCDL 5.0	Code	IRC2021/TP12014	Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.27 18-19 >884 480
			Vert(CT) -0.37 18-19 >641 360
			Horz(CT) 0.07 14 n/a n/a
			PLATES GRIP
			MT20 244/190
			M18AHS 186/179
			Weight: 106 lb FT = 20%F, 11%E

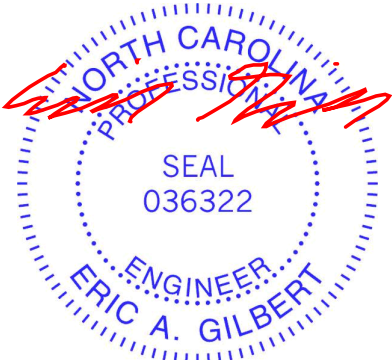
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=867(LC 1), 14=867(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1619/0, 3-4=-2758/0, 4-5=-2758/0, 5-6=-3380/0, 6-7=-3552/0, 7-8=-3380/0, 8-10=-2758/0, 10-11=-2758/0, 11-12=-1619/0
BOT CHORD 23-24=0/945, 22-23=0/2269, 20-22=0/3163, 19-20=0/3552, 18-19=0/3552, 17-18=0/3552, 16-17=0/3163, 15-16=0/2269, 14-15=0/945
WEBS 2-24=-1256/0, 2-23=0/937, 3-23=-905/0, 3-22=0/665, 5-22=-550/0, 5-20=0/423, 12-14=-1256/0, 12-15=0/937, 11-15=-905/0, 11-16=0/665, 8-16=-550/0, 8-17=0/423, 7-17=-506/76, 6-20=-506/76

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



September 10,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-B	F03	Floor	4	1	176233437

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:03 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-W8ISCHx7rwUZMrgmiyRank?8FzoKiRjXliih5_yfJmc

Job Reference (optional)

1-3-0

0-9-8

2-0-0

1-0-0

0-1-8

Scale = 1:33.0

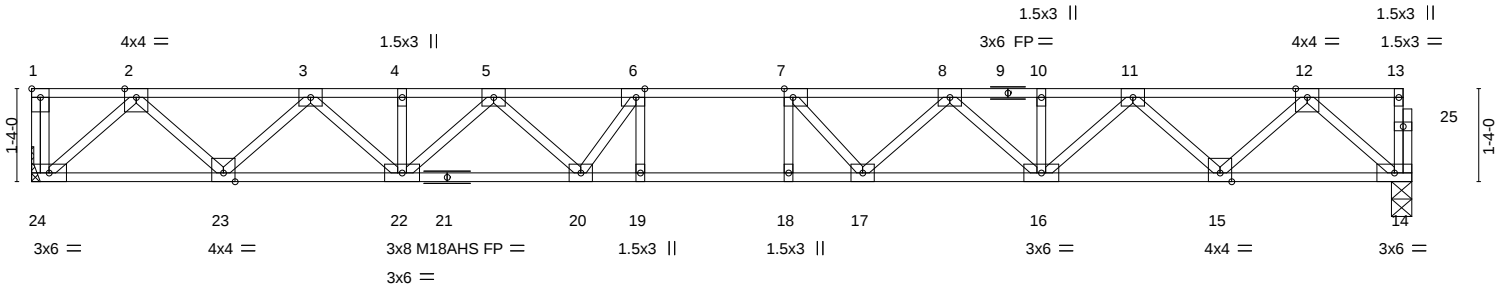


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)		SPACING-	1-7-3
TCLL	40.0	Plate Grip DOL	1.00
TCDL	10.0	Lumber DOL	1.00
BCLL	0.0	Rep Stress Incr	YES
BCDL	5.0	Code	IRC2021/TPI2014
		CSI.	
		TC	0.39
		BC	0.86
		WB	0.44
		Matrix-S	
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.26 18 >916 480
		Vert(CT)	-0.35 18-19 >665 360
		Horz(CT)	0.07 14 n/a n/a
		PLATES	GRIP
		MT20	244/190
		M18AHS	186/179
		Weight: 105 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (size) 24=Mechanical, 14=0-3-8
Max Grav 24=859(LC 1), 14=854(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1591/0, 3-4=-2705/0, 4-5=-2705/0, 5-6=-3304/0, 6-7=-3448/0, 7-8=-3298/0,
8-10=-2703/0, 10-11=-2703/0, 11-12=-1591/0
BOT CHORD 23-24=0/931, 22-23=0/2228, 20-22=0/3089, 19-20=0/3448, 18-19=0/3448, 17-18=0/3448,
16-17=0/3096, 15-16=0/2228, 14-15=0/931
WEBS 2-24=-1240/0, 2-23=0/918, 3-23=-886/0, 3-22=0/649, 5-22=-522/0, 5-20=0/426,
12-14=-1237/0, 12-15=0/919, 11-15=-886/0, 11-16=0/645, 8-16=-535/0, 8-17=0/401,
7-17=-470/86, 6-20=-497/90

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



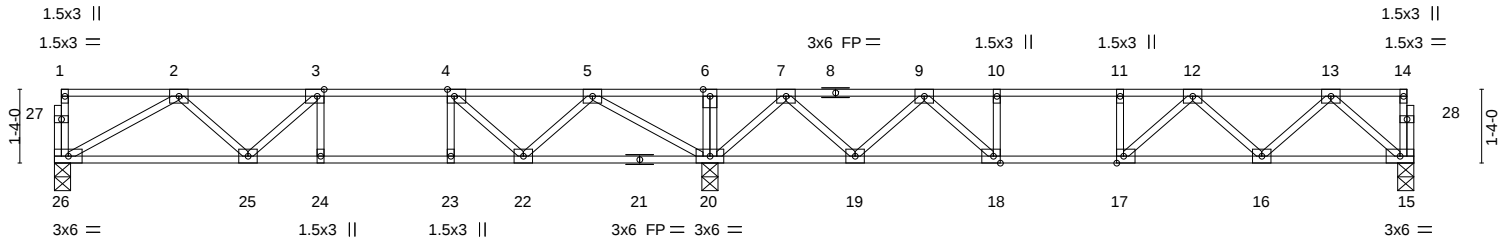
September 10, 2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932



11-10-4 11-10-4 24-7-0									
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,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	0.38	Vert(LL)	-0.08 16-17 >999	480	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.10 16-17 >999	360	
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02 15 n/a	n/a	
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S					Weight: 125 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)

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: 20-22,19-20.

REACTIONS.

(size) 26=0-3-8, 20=0-3-8, 15=0-3-8
Max Grav 26=474(LC 10), 20=1191(LC 1), 15=518(LC 7)

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

TOP CHORD 2-3=-905/0, 3-4=-1055/0, 4-5=-755/16, 5-6=0/720, 6-7=0/718, 7-9=-667/34,
9-10=-1256/0, 10-11=-1256/0, 11-12=-1256/0, 12-13=-867/0

BOT CHORD 25-26=0/712, 24-25=0/1055, 23-24=0/1055, 22-23=0/1055, 20-22=-143/475,
19-20=-166/300, 18-19=0/1027, 17-18=0/1256, 16-17=0/1149, 15-16=0/551

WEBS 2-26=-816/0, 5-20=-973/0, 5-12=0/452, 4-22=-507/0, 2-25=0/267, 7-20=-854/0,
7-19=0/564, 9-19=-568/0, 9-18=0/466, 13-15=-732/0, 13-16=0/439, 12-16=-393/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



September 10, 2025

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

WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-15169: 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-B	F05	Floor	1	1	176233439
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:05 2025 Page 1
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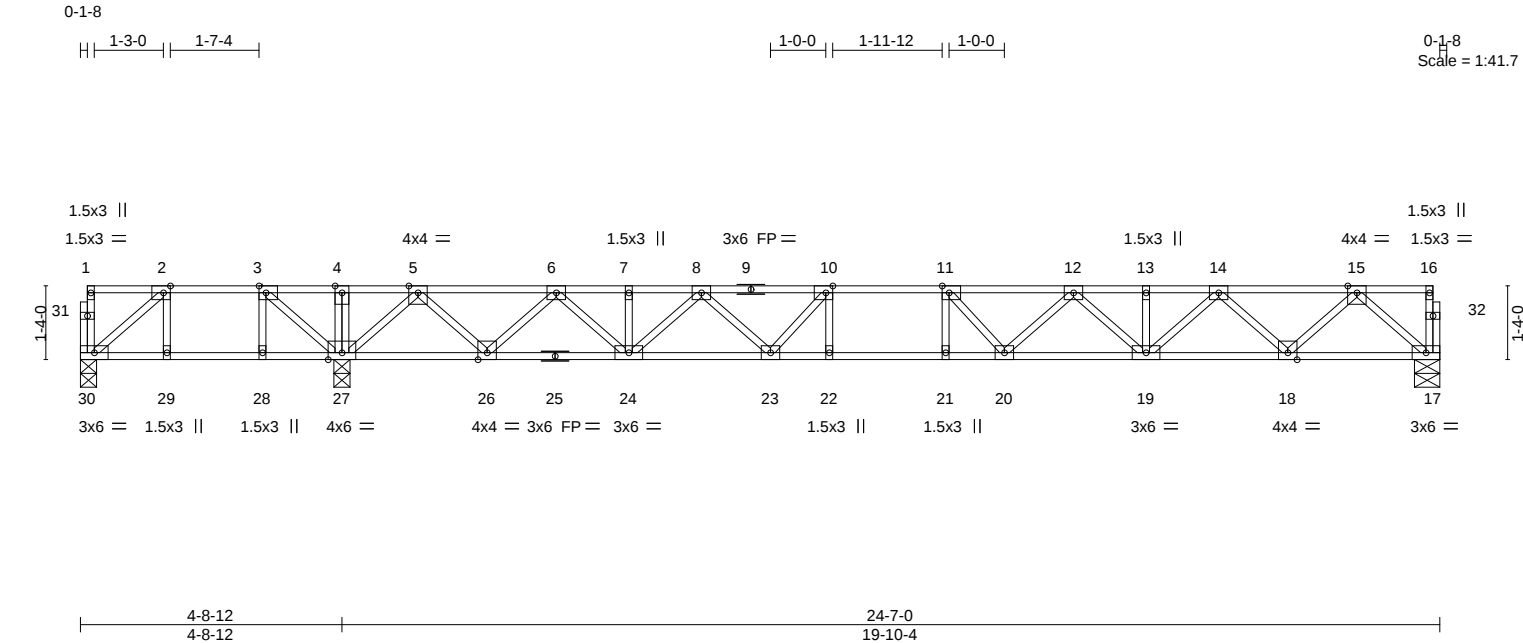
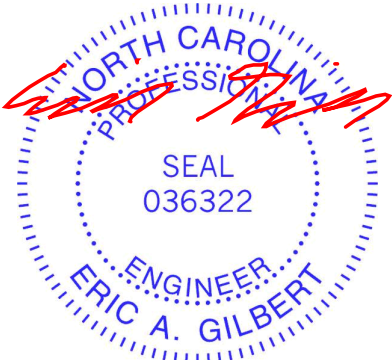


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.24 21 >974 480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.33 21 >710 360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.05 17 n/a n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S				Weight: 130 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 29-30,28-29,27-28.
WEBS	2x4 SP No.3(flat)		
REACTIONS.			
(size) 30=0-3-8, 27=0-3-8, 17=0-5-8			
Max Uplift 30=-186(LC 4)			
Max Grav 30=130(LC 3), 27=1369(LC 1), 17=809(LC 7)			

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-53/405, 3-4=0/980, 4-5=0/980, 5-6=-854/0, 6-7=-2096/0, 7-8=-2096/0, 8-10=-2822/0, 10-11=-3079/0, 11-12=-3003/0, 12-13=-2506/0, 13-14=-2506/0, 14-15=-1493/0
BOT CHORD	29-30=-405/53, 28-29=-405/53, 27-28=-405/53, 24-26=0/1551, 23-24=0/2544, 22-23=0/3079, 21-22=0/3079, 20-21=0/3079, 19-20=0/2859, 18-19=0/2083, 17-18=0/879
WEBS	2-30=-65/535, 3-27=-865/0, 5-27=-1369/0, 5-26=0/1019, 6-26=-979/0, 6-24=0/748, 15-17=-1168/0, 15-18=0/854, 14-18=-820/0, 14-19=0/575, 12-19=-480/0, 12-20=0/329, 8-24=-616/0, 8-23=0/465, 10-23=-569/0, 11-20=-368/154

NOTES-	
1) Unbalanced floor live loads have been considered for this design.	
2) All plates are 3x4 MT20 unless otherwise indicated.	
3) Plates checked for a plus or minus 1 degree rotation about its center.	
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 30=186.	
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.	



September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-B	F06	Floor	9	1	176233440

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:05 2025 Page 1
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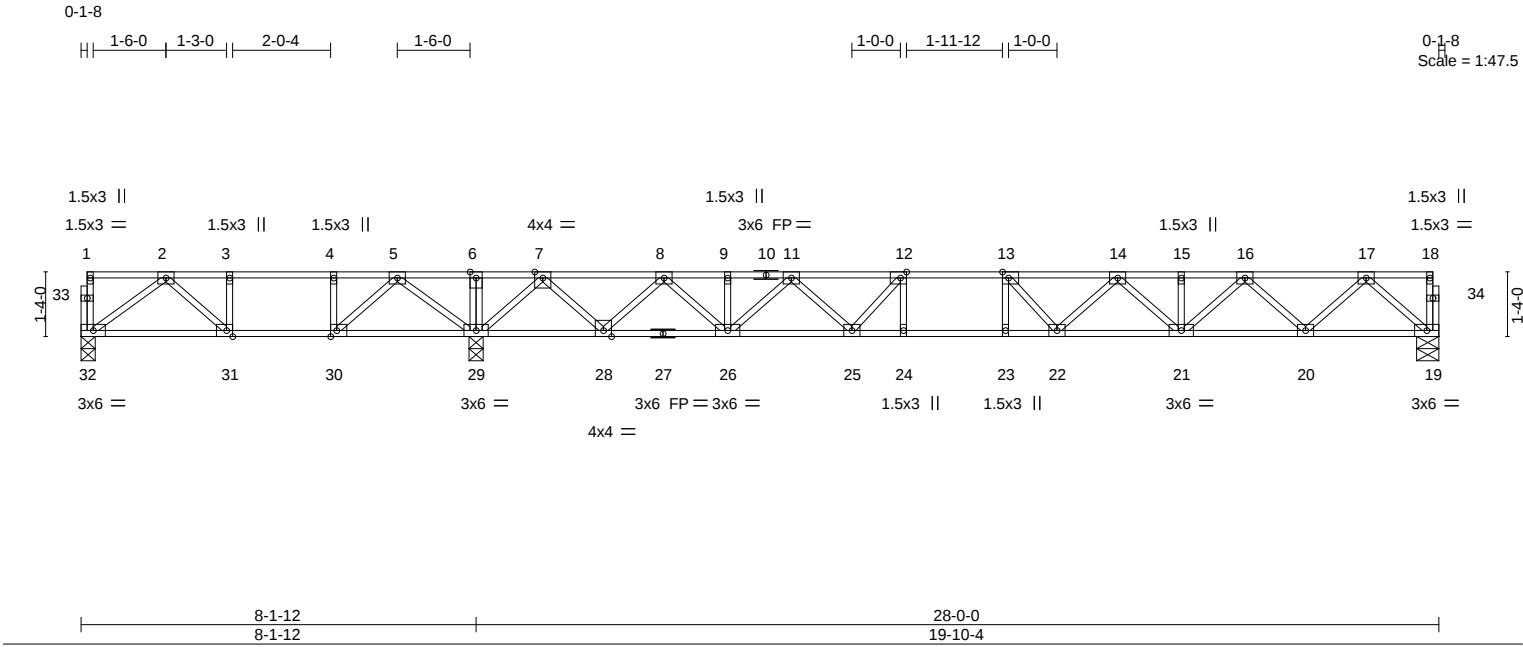


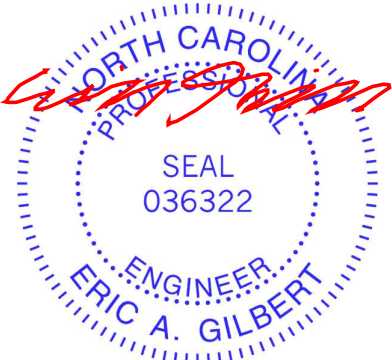
Plate Offsets (X,Y)--		[12:0-1-8,Edge], [13:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]	
LOADING (psf)		SPACING-	
TCLL 40.0		1-7-3	
TCDL 10.0		Plate Grip DOL 1.00	
BCLL 0.0		Lumber DOL 1.00	
BCDL 5.0		Rep Stress Incr YES	
		Code IRC2021/TPI2014	
		CSI.	
		TC 0.73	
		BC 0.92	
		WB 0.50	
		Matrix-S	
		DEFL.	
		in (loc) l/defl L/d	
		Vert(LL) -0.24 23 >987 480	
		Vert(CT) -0.33 23 >721 360	
		Horz(CT) 0.05 19 n/a n/a	
		PLATES GRIP	
		MT20 244/190	
		Weight: 146 lb FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.1(flat)		TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD 2x4 SP No.1(flat)		BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.	
WEBS 2x4 SP No.3(flat)			

REACTIONS.		(size) 32=0-3-8, 29=0-3-8, 19=0-5-8
		Max Uplift 32=-77(LC 4)
		Max Grav 32=290(LC 3), 29=1474(LC 1), 19=797(LC 7)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD		2-3=-376/411, 3-4=-376/411, 4-5=-376/411, 5-6=0/1270, 6-7=0/1270, 7-8=-693/0, 8-9=-1961/0, 9-11=-1961/0, 11-12=-2712/0, 12-13=-2988/0, 13-14=-2931/0, 14-15=-2457/0, 15-16=-2457/0, 16-17=-1469/0
BOT CHORD		31-32=-139/305, 30-31=-411/376, 29-30=-804/83, 28-29=-259/0, 26-28=0/1407, 25-26=0/2420, 24-25=0/2988, 23-24=0/2988, 22-23=0/2988, 21-22=0/2800, 20-21=0/2047, 19-20=0/866
WEBS		2-32=-377/172, 2-31=-371/97, 5-29=-762/0, 5-30=0/728, 4-30=-377/0, 7-29=-1344/0, 7-28=0/1052, 8-28=-1014/0, 8-26=0/775, 17-19=-1151/0, 17-20=0/838, 16-20=-804/0, 16-21=0/558, 14-21=-466/0, 14-22=0/304, 11-26=-640/0, 11-25=0/483, 12-25=-595/0, 13-22=-330/181

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



September 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.sbcacompnents.com)

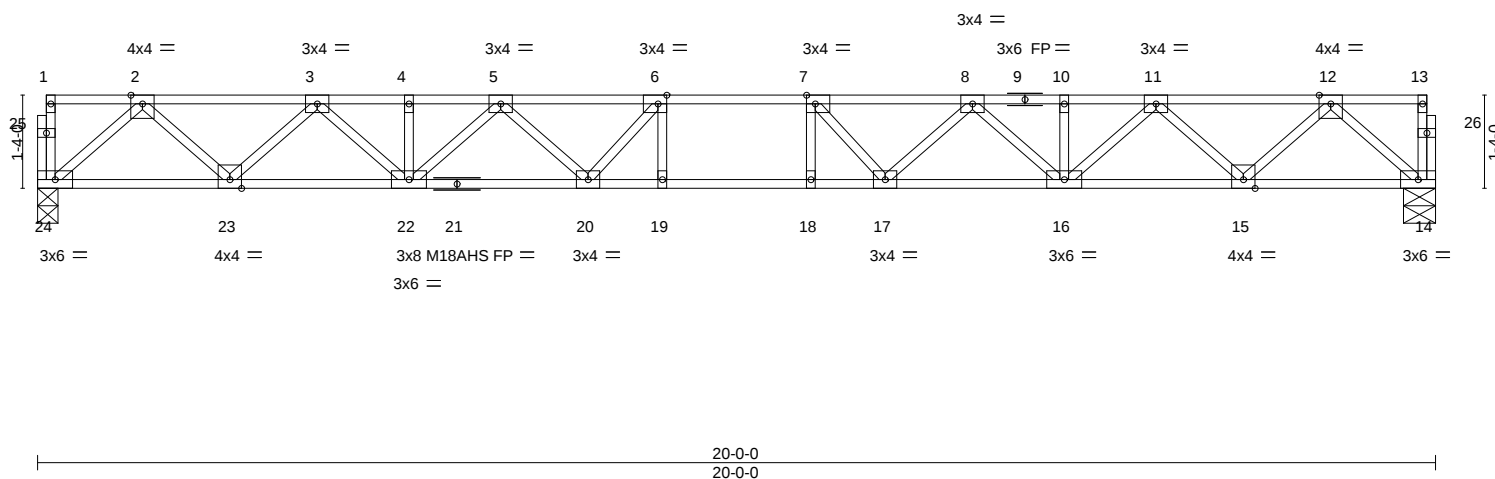
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc. Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:06 2025 Page 1
ID: 09zqKsf9De2KkT15adaCvyCKWg-wj arJz?8rs8DIOLN5?HPzdgBp2voNz jxLiLyfJmZ

Diagram showing three segments with dimensions 1-0-0, 2-0-0, and 1-0-0.

0-1-8
Scale = 1:33.0



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

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

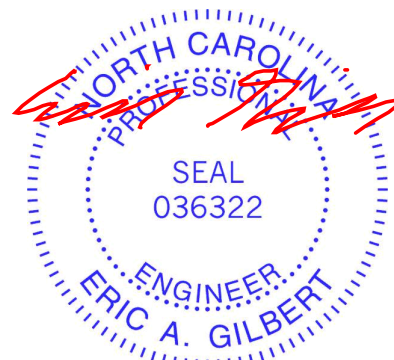
TOP CHORD 2-3=-1611/0, 3-4=-2743/0, 4-5=-2743/0, 5-6=-3356/0, 6-7=-3524/0, 7-8=-3356/0,
8-10=-2743/0, 10-11=-2743/0, 11-12=-1611/0

BOT CHORD 23-24=0/941, 22-23=0/2258, 20-22=0/3144, 19-20=0/3524, 18-19=0/3524, 17-18=0/3524,
16-17=0/3144, 15-16=0/2258, 14-15=0/941

WEBS 2-24=-1251/0, 2-23=0/932, 3-23=-899/0, 3-22=0/659, 12-14=-1251/0, 12-15=0/932,
11-15=-899/0, 11-16=0/659, 8-16=-546/0, 8-17=0/415, 5-22=-546/0, 5-20=0/415,
6-20=-495/78, 7-17=-495/78

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



September 10, 2025

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

WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-19 (Rev. 1/2/2025) 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A Mitek Affiliat

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-B	F08	Floor	3	1	I76233442

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:06 2025 Page 1
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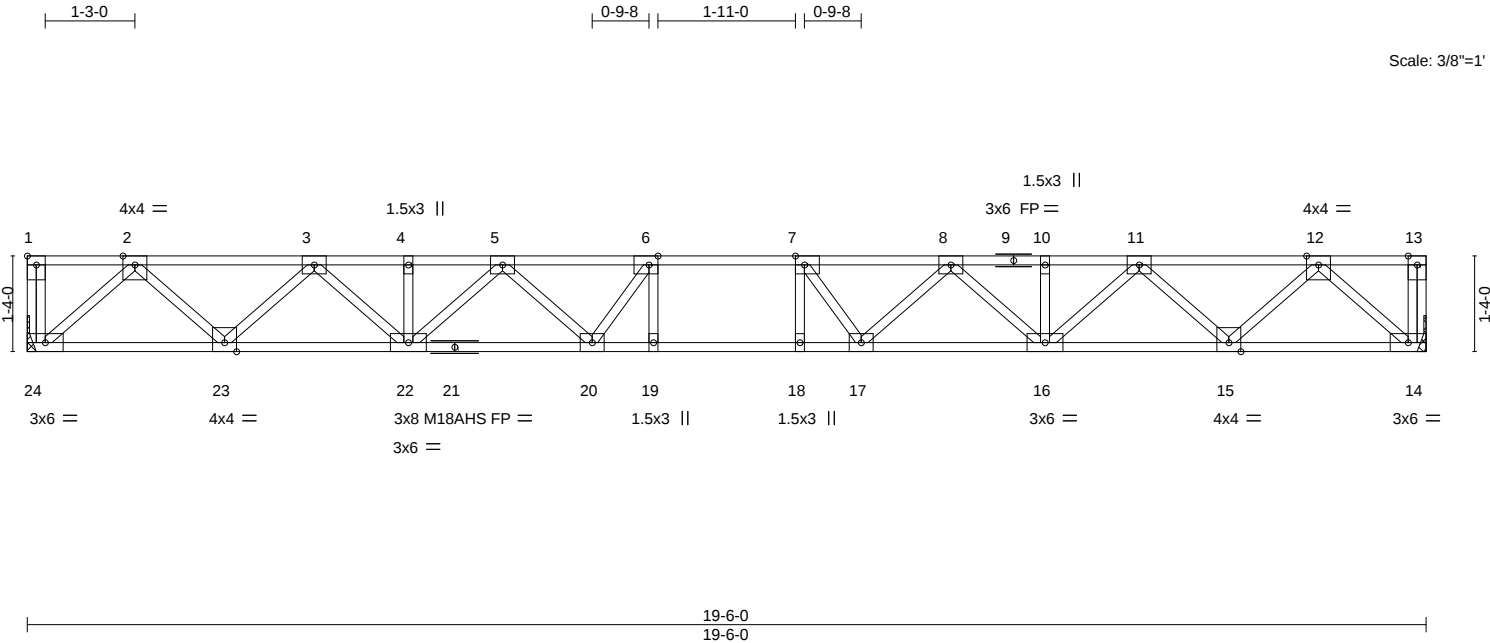


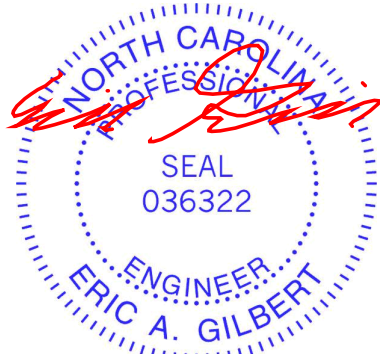
Plate Offsets (X,Y)--		[1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.35
TCDL 10.0	Lumber DOL	1.00	BC 0.81
BCLL 0.0	Rep Stress Incr	YES	WB 0.43
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.24 18-19 >963 480
			Vert(CT) -0.33 18-19 >698 360
			Horz(CT) 0.06 14 n/a n/a
			PLATES GRIP
			MT20 244/190
			M18AHS 186/179
			Weight: 104 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=Mechanical, 14=Mechanical
Max Grav 24=846(LC 1), 14=846(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1564/0, 3-4=-2650/0, 4-5=-2650/0, 5-6=-3221/0, 6-7=-3347/0, 7-8=-3221/0, 8-10=-2650/0, 10-11=-2650/0, 11-12=-1564/0
BOT CHORD 23-24=0/917, 22-23=0/2187, 20-22=0/3022, 19-20=0/3347, 18-19=0/3347, 17-18=0/3347, 16-17=0/3022, 15-16=0/2187, 14-15=0/917
WEBS 2-24=-1220/0, 2-23=0/900, 3-23=-867/0, 3-22=0/629, 5-22=-506/0, 5-20=0/404, 12-14=-1220/0, 12-15=0/900, 11-15=-867/0, 11-16=0/629, 8-16=-506/0, 8-17=0/404, 7-17=-461/100, 6-20=-461/100

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



September 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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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	FKW07	Floor Supported Gable	1	1	176233443
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC 28309 25.2.0 s May 15 2025 MiTek Industries, Inc. Wed Sep 10 15:46:17 2025 Page 1
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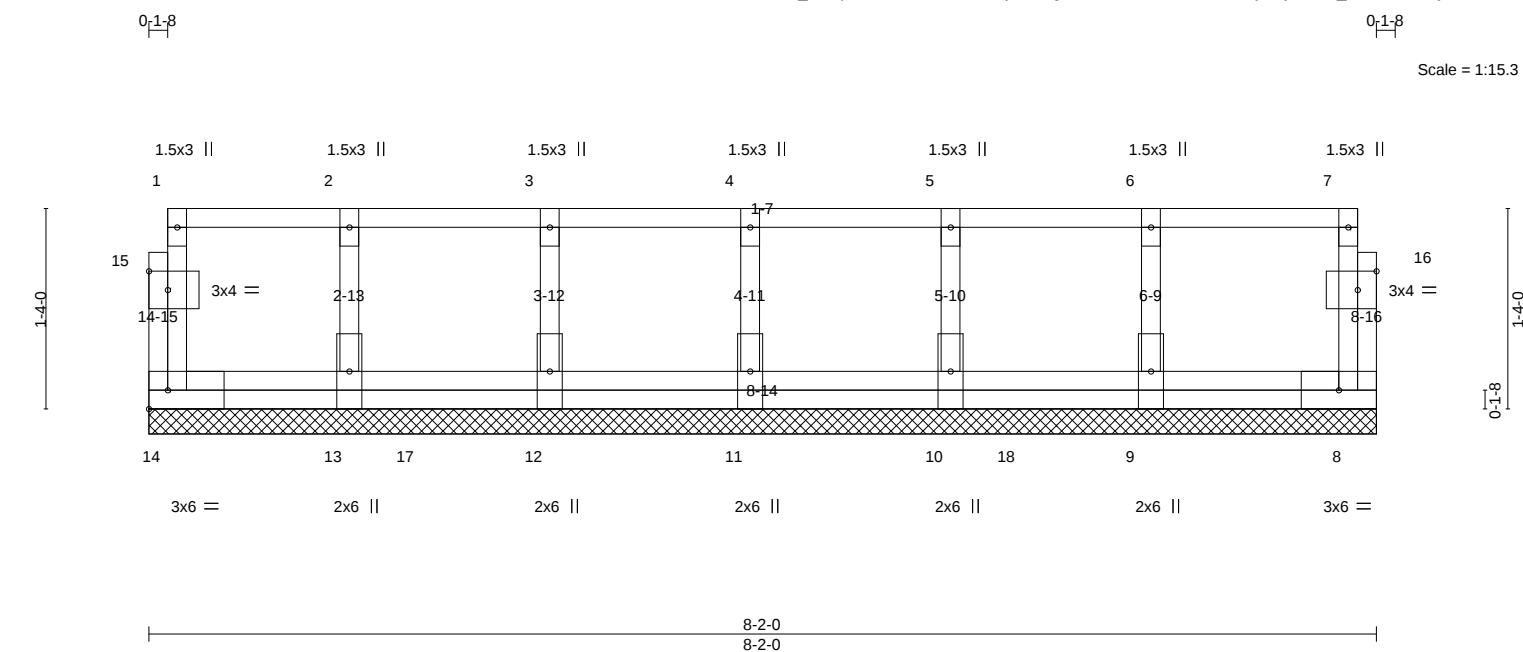


Plate Offsets (X,Y)--		[15:0-1-8,0-1-8], [16:0-1-8,0-1-8]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06
TCDL 10.0	Lumber DOL	1.00	BC 0.03
BCLL 0.0	Rep Stress Incr	YES	WB 0.03
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-R
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a 999
Vert(CT)	n/a	-	n/a 999
Horz(CT)	0.00	8	n/a n/a
PLATES	GRIP		
MT20	244/190		
Weight: 48 lb		FT = 20%F, 11%E	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 8-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

NOTES-
1) Plates checked for a plus or minus 1 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1'-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10'-0-0 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-8, 1-7=-80
Concentrated Loads (lb)
Vert: 7=-96 11=-98 17=-98 18=-98

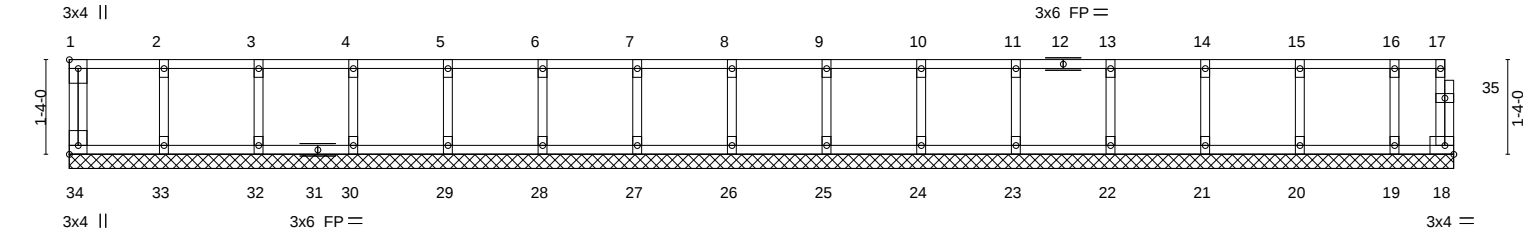


September 10, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-B	FKW08	GABLE	1	1	176233444

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:43:07 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-OvYy2f_dv9__qSzXoWWxA9wabMbeL86DNgvElyfJmY
0-1-8
Scale = 1:32.5



	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	19-6-0
Plate Offsets (X,Y)--	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-0
[1:Edge,0-1-8], [34:Edge,0-1-8]															
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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190		
TCDL	10.0	Lumber DOL 1.00			BC	0.01	Vert(CT)	n/a	-	n/a	999	Weight: 87 lb FT = 20%F, 11%E			
BCLL	0.0	Rep Stress Incr YES			WB	0.03	Horz(CT)	0.00	18	n/a	n/a				
BCDL	5.0	Code IRC2021/TPI2014			Matrix-R										

LUMBER-			BRACING-		
TOP CHORD	2x4 SP No.1(flat)		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	2x4 SP No.1(flat)		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	2x4 SP No.3(flat)				
OTHERS	2x4 SP No.3(flat)				

REACTIONS. All bearings 19-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) 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).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



September 10, 2025

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 250917-A
Lot 24 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: I76233568 thru I76233598

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

North Carolina COA: C-0844



September 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	Qty	Ply	Lot 24 Duncan's Creek
250917-A	A1	COMMON	4	1	176233568

Comtech, Inc., Fayetteville, NC - 28314,

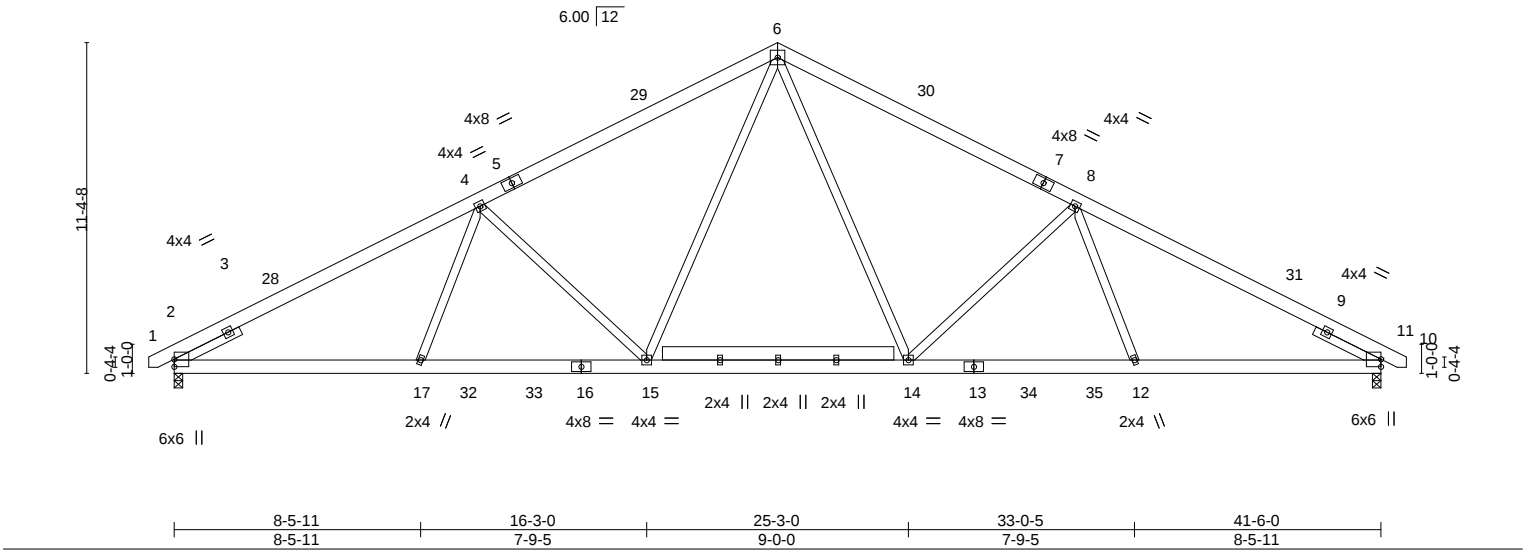
25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:10 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-OpX4qUZ2ix_YHJ73kK5JiAkN_YAG43vt5g2GG9yJil

Job Reference (optional)

0-10-8 10-6-4 20-9-0 30-11-12 41-6-0 42-4-8
0-10-8 10-6-4 10-2-12 10-2-12 10-6-4 0-10-8

6x6 =

Scale = 1:79.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL)	-0.15 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT)	-0.26 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL)	0.06 15	>999	240		
							Weight: 311 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	
18-19: 2x6 SP No.1	
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=140(LC 11)
Max Uplift 2=-109(LC 12), 10=-109(LC 13)
Max Grav 2=1867(LC 2), 10=1867(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3048/556, 4-6=-2457/584, 6-8=-2457/584, 8-10=-3048/556
BOT CHORD 2-17=-349/2695, 15-17=-381/2597, 14-15=-129/1786, 12-14=-378/2542, 10-12=-346/2638
WEBS 6-14=-115/882, 8-14=-675/296, 8-12=0/345, 6-15=-115/882, 4-15=-675/296, 4-17=0/345

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-9-0, Exterior(2R) 20-9-0 to 25-1-13, Interior(1) 25-1-13 to 42-2-10 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=109, 10=109.
 - 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.



September 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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	A1GE	GABLE	1	1	176233569

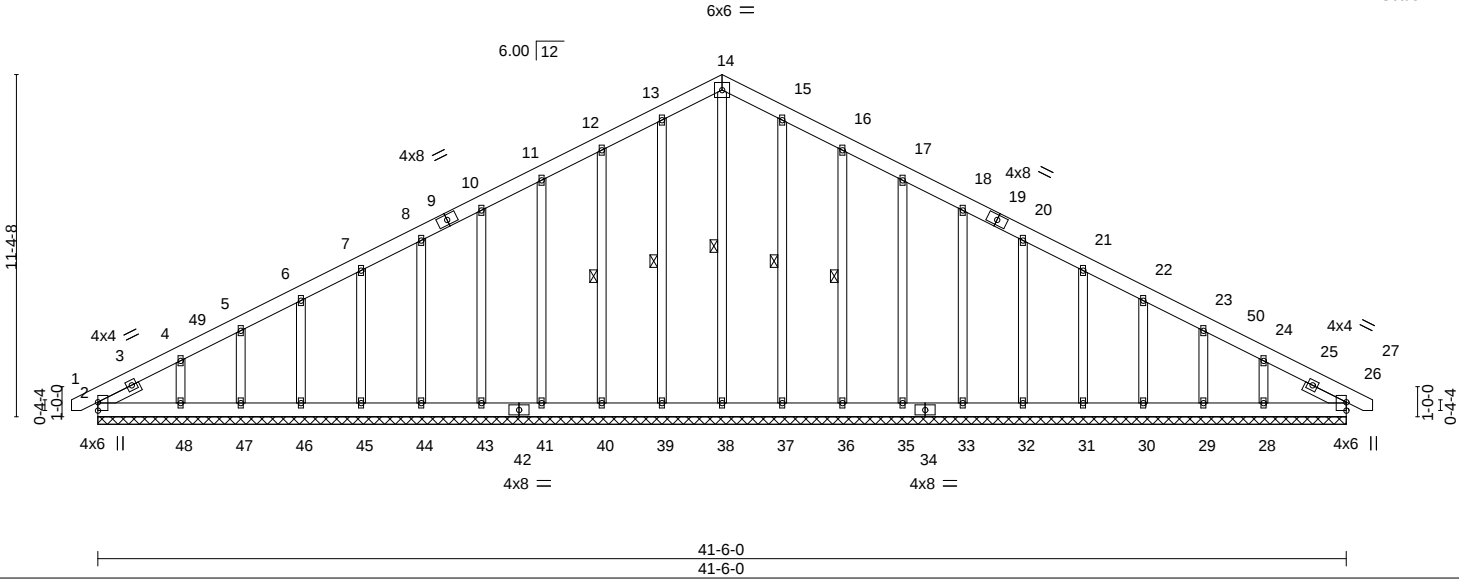
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25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:11 2025 Page 1
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Job Reference (optional)

-0-10-8 20-9-0 41-6-0 20-9-0 42-4-8 40-10-8
0-10-8 20-9-0 20-9-0 0-10-8

Scale = 1:76.6



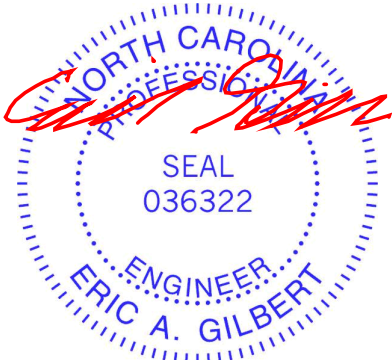
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	26	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	26	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	26	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						
								Weight: 377 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt
SLIDER Left 2x4 SP No.2 1-6-4, Right 2x4 SP No.2 1-6-4	

REACTIONS.	All bearings 41-6-0.
(lb) - Max Horz 2=217(LC 16)	
Max Uplift	All uplift 100 lb or less at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 37, 36, 35, 33, 32, 31, 30, 29 except 48=-169(LC 12), 28=-148(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 2, 26, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-295/98, 11-12=-116/294, 12-13=-139/358, 13-14=-150/394, 14-15=-150/394, 15-16=-139/358, 16-17=-116/294

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-10 to 3-8-3, Exterior(2N) 3-8-3 to 20-9-0, Corner(3R) 20-9-0 to 25-1-13, Exterior(2N) 25-1-13 to 42-2-10 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 37, 36, 35, 33, 32, 31, 30, 29 except (jt=lb) 48=169, 28=148.



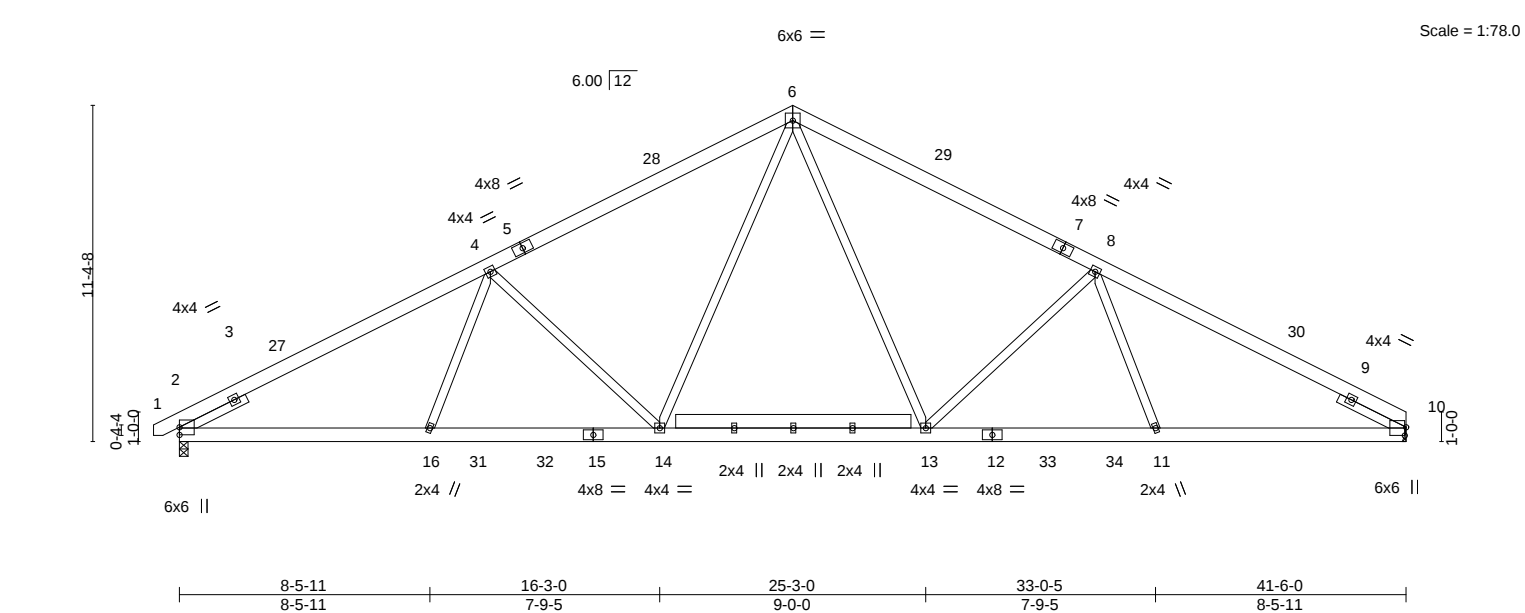
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters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

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	A2	COMMON	10	1	176233570

Comtech, Inc,	Fayetteville, NC - 28314,	25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:12 2025 Page 1
-0-10-8	10-6-4	ID: _09zqksf9De2KkT15adaCvyCKWg-KCfqF9aJDZEGXdHSrI7nbpjTLskYzzAZ_XMK2yfJij
0-10-8	10-6-4	30-11-12
		10-2-12
		41-6-0
		10-6-4



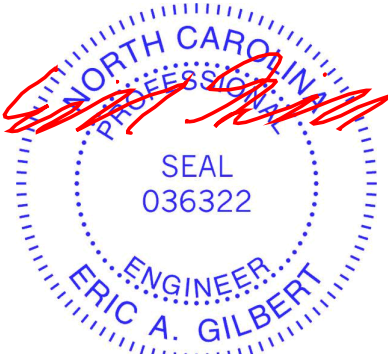
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.32	Vert(LL)	-0.15 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.53	Vert(CT)	-0.26 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.78	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TP12014		Matrix-AS	Wind(LL)	0.06 14	>999	240	Weight: 309 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	
17-18: 2x6 SP No.1	
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0	

REACTIONS.	(size) 2=0-3-8, 10=Mechanical
	Max Horz 2=141(LC 9)
	Max Uplift 2=-109(LC 12), 10=-99(LC 13)
	Max Grav 2=1868(LC 2), 10=1831(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-3049/556, 4-6=-2458/584, 6-8=-2458/587, 8-10=-3051/562
BOT CHORD	2-16=-375/2691, 14-16=-407/2593, 13-14=-154/1782, 11-13=-394/2544, 10-11=-366/2640
WEBS	6-13=-115/883, 8-13=-677/296, 8-11=0/346, 6-14=-115/882, 4-14=-675/296, 4-16=0/345

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-9-0, Exterior(2R) 20-9-0 to 25-1-13, Interior(1) 25-1-13 to 41-6-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=109.
 - 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.



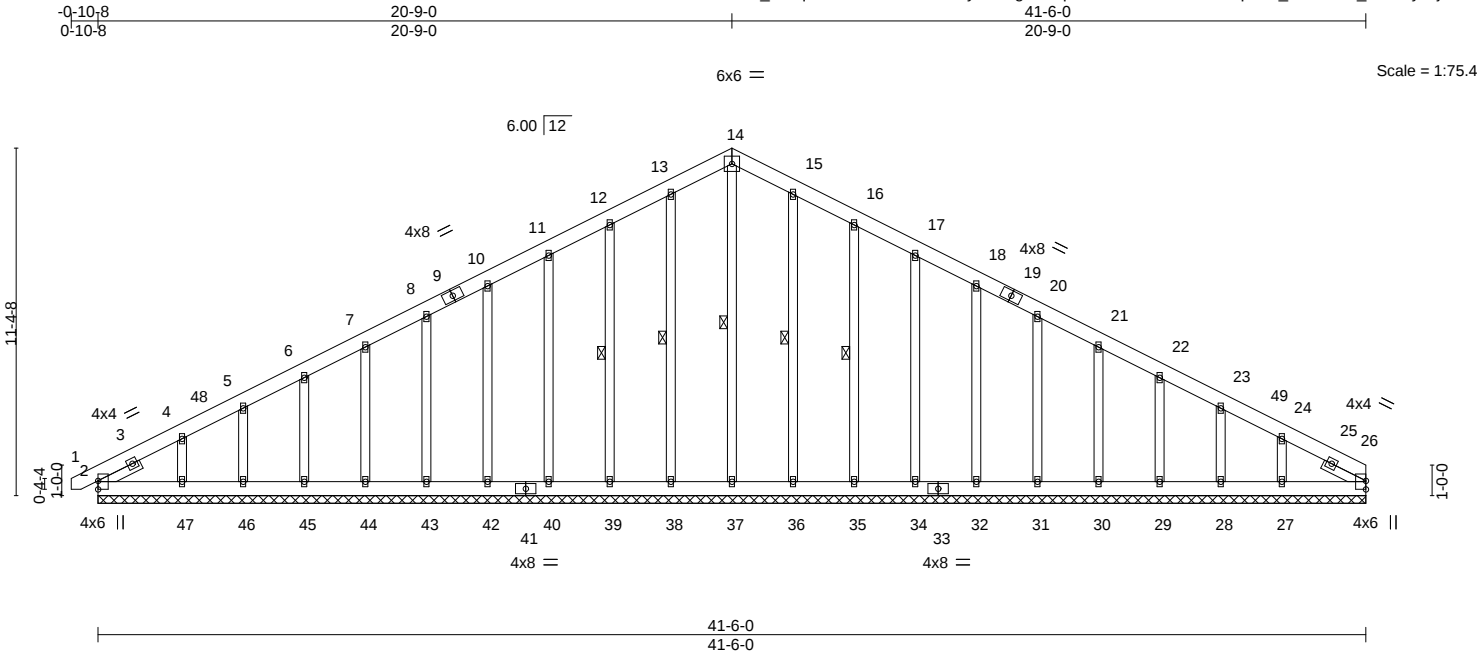
September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	A3GE	GABLE	1	1	176233571

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25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:12 2025 Page 1
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Job Reference (optional)



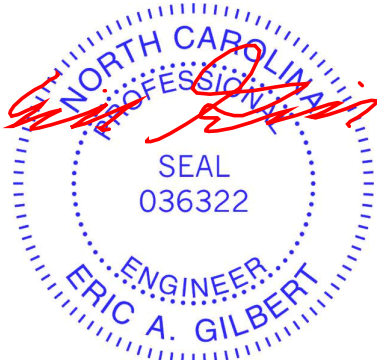
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.06	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	26	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 375 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 14-37, 13-38, 12-39, 15-36, 16-35
SLIDER Left 2x4 SP No.2 1-6-4, Right 2x4 SP No.2 1-6-4	

REACTIONS.	All bearings 41-6-0.
(lb) - Max Horz 2=-223(LC 17)	
Max Uplift	All uplift 100 lb or less at joint(s) 2, 38, 39, 40, 42, 43, 44, 45, 46, 36, 35, 34, 32, 31, 30, 29, 28 except 47=-169(LC 12), 27=-151(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 2, 26, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-293/100, 11-12=-116/305, 12-13=-139/369, 13-14=-149/403, 14-15=-149/403, 15-16=-139/369, 16-17=-116/305
WEBS	24-27=-156/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-10 to 3-8-3, Exterior(2N) 3-8-3 to 20-9-0, Corner(3R) 20-9-0 to 25-1-13, Exterior(2N) 25-1-13 to 41-6-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 38, 39, 40, 42, 43, 44, 45, 46, 36, 35, 34, 32, 31, 30, 29, 28 except (jt=lb) 47=169, 27=151.

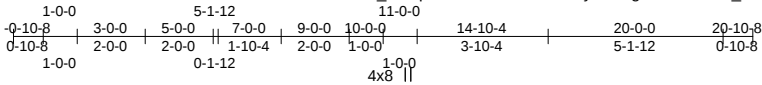


September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	B1GE	COMMON STRUCTURAL GA	1	1	176233572

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25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:13 2025 Page 1
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Scale = 1:67.8

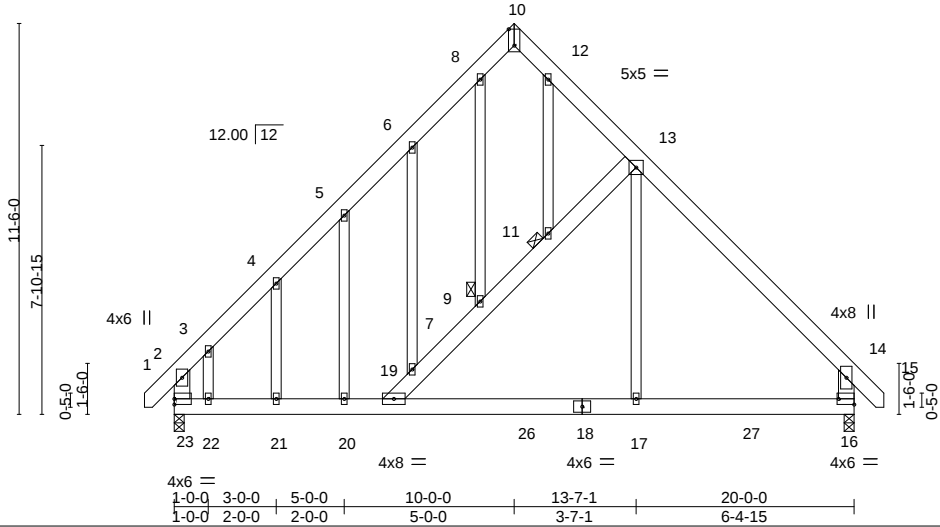


Plate Offsets (X,Y)--		[10:0-5-12,Edge], [16:Edge,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37
TCDL 10.0	Lumber DOL	1.15	BC 0.31
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-MR
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.09 19-20 >999 360
			Vert(CT) -0.15 19-20 >999 240
			Horz(CT) 0.01 16 n/a n/a
			Wind(LL) 0.15 20-21 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 201 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	JOINTS 1 Brace at Jt(s): 11, 9
2-23,14-16: 2x6 SP No.1	

REACTIONS. (size) 16=0-3-8, 23=0-3-8
Max Horz 23=322(LC 11)
Max Uplift 16=-144(LC 12), 23=-144(LC 13)
Max Grav 16=1028(LC 19), 23=955(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-905/51, 3-4=-835/96, 4-5=-760/157, 5-6=-704/207, 6-8=-633/311, 8-10=-354/214, 10-12=-451/274, 12-13=-720/376, 13-14=-1012/187, 7-19=-147/263, 7-9=-222/296, 9-11=-266/213, 11-13=-385/236, 2-23=-791/82, 14-16=-882/222
BOT CHORD 22-23=-101/634, 21-22=-100/634, 20-21=-100/634, 19-20=-100/633, 17-19=-4/619, 16-17=-4/619
WEBS 8-9=-151/290, 13-17=0/437

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-0-0, Exterior(2R) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=144, 23=144.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 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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ENGINEERING BY
TRENCO
A MiTek Affiliate

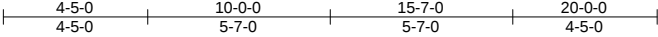
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	B2GRD	COMMON GIRDER	1	2	176233573

Comtech, Inc., Fayetteville, NC - 28314,

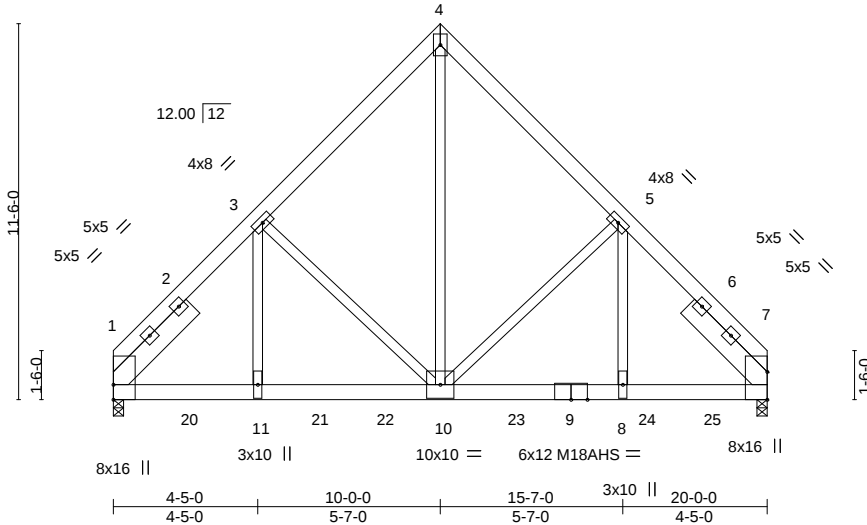
25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:14 2025 Page 1

ID: _09zqKsf9De2KkT15adaCvyCKWg-GbngbrcZIAUzmwRqzA9Fs0ux79UK0uFT0I0TPwyfJih



5x8 ||

Scale = 1:70.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL)	-0.14 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT)	-0.26 10-11	>922	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr NO	WB 0.73	Horz(CT)	0.07 7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL)	0.09 10-11	>999	240		
							Weight: 376 lb	FT = 20%

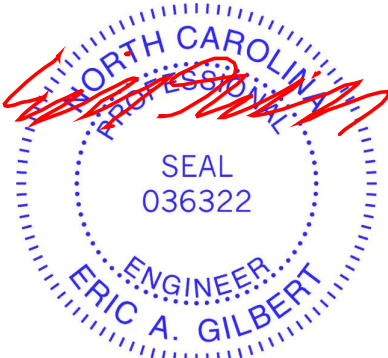
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	
4-10: 2x4 SP No.1	
SLIDER Left 2x8 SP No.1 3-5-0, Right 2x8 SP No.1 3-5-0	

REACTIONS. (size) 1=0-3-12, 7=0-3-12
Max Horz 1=-240(LC 25)
Max Uplift 1=-521(LC 9), 7=-541(LC 8)
Max Grav 1=8688(LC 2), 7=9013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-9549/626, 3-4=-6702/543, 4-5=-6709/543, 5-7=-9473/621
BOT CHORD 1-11=-460/6280, 10-11=-460/6280, 8-10=-359/6258, 7-8=-359/6258
WEBS 4-10=-622/8849, 5-10=-2070/301, 5-8=-189/3740, 3-10=-2100/302, 3-11=-195/3856

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=521, 7=541.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1811 lb down and 119 lb up at 2-2-12, 1811 lb down and 119 lb up at 4-2-12, 1811 lb down and 119 lb up at 6-2-12, 1811 lb down and 119 lb up at 8-2-12, 1811 lb down and 119 lb up at 10-2-12, 1811 lb down and 119 lb up at 12-2-12, 1811 lb down and 119 lb up at 14-2-12, and 1811 lb down and 119 lb up at 16-2-12, and 1811 lb down and 119 lb up at 18-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	B2GRD	COMMON GIRDER	1	2	I76233573

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25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:14 2025 Page 2
ID: _09zqKsf9De2KkT15adaCvyCKWg-GbnbgrcZIAUzmmwRqzA9Fs0ux79UK0uFT0I0TPwyfJih

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-4=-60, 4-7=-60, 12-16=-20
- Concentrated Loads (lb)
- Vert: 9=-1640(B) 10=-1640(B) 11=-1640(B) 20=-1640(B) 21=-1640(B) 22=-1640(B) 23=-1640(B) 24=-1640(B) 25=-1640(B)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	C1GE	GABLE	1	1	176233574

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:15 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-InLztBdBWUcqO401WugUPDRHIZ_OIVkcFyl0xNyfJig

0-10-8 6-3-0 12-6-0 13-4-8
0-10-8 6-3-0 6-3-0 0-10-8

4x6 ==

Scale = 1:49.2

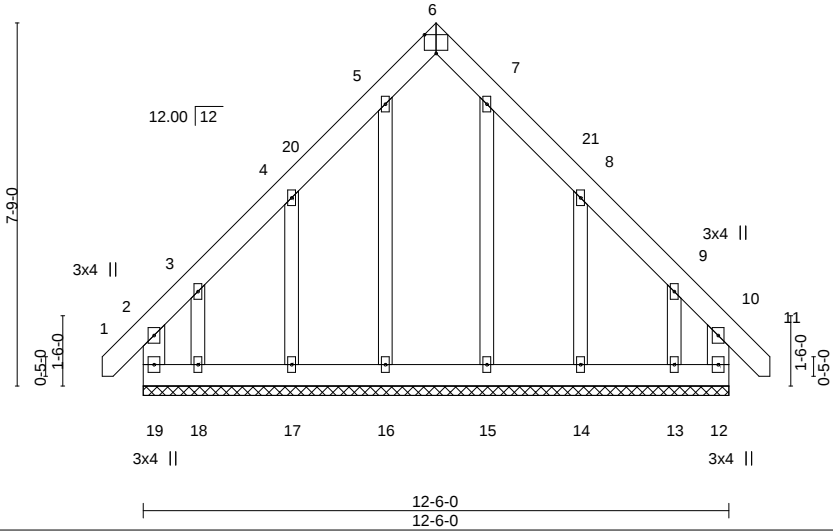


Plate Offsets (X,Y)--		[6:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09
TCDL 10.0	Lumber DOL	1.15	BC 0.09
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 10 n/r 120
			Vert(CT) -0.00 10 n/r 120
			Horz(CT) 0.00 12 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 115 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 12-6-0.
(lb) - Max Horz 19=-210(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 19=-174(LC 10), 12=-148(LC 11), 17=-160(LC 12), 18=-336(LC 12), 14=-162(LC 13), 13=-325(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 16, 17, 15, 14, 13 except 19=309(LC 12), 12=291(LC 13), 18=253(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-17=-187/312, 3-18=-159/295, 8-14=-186/312, 9-13=-161/293

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 6-3-0, Corner(3R) 6-3-0 to 10-7-13, Exterior(2N) 10-7-13 to 13-3-2 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.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 19, 148 lb uplift at joint 12, 160 lb uplift at joint 17, 336 lb uplift at joint 18, 162 lb uplift at joint 14 and 325 lb uplift at joint 13.



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ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	D1	MONOPITCH	5	1	176233575
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID: _09zqKsf9De2KkT15adaCvyCKWg-InLztBdBWUcqO401WugUPDRF4ZzRIWxcFyI0xNyfJig

5-6-05-6-0

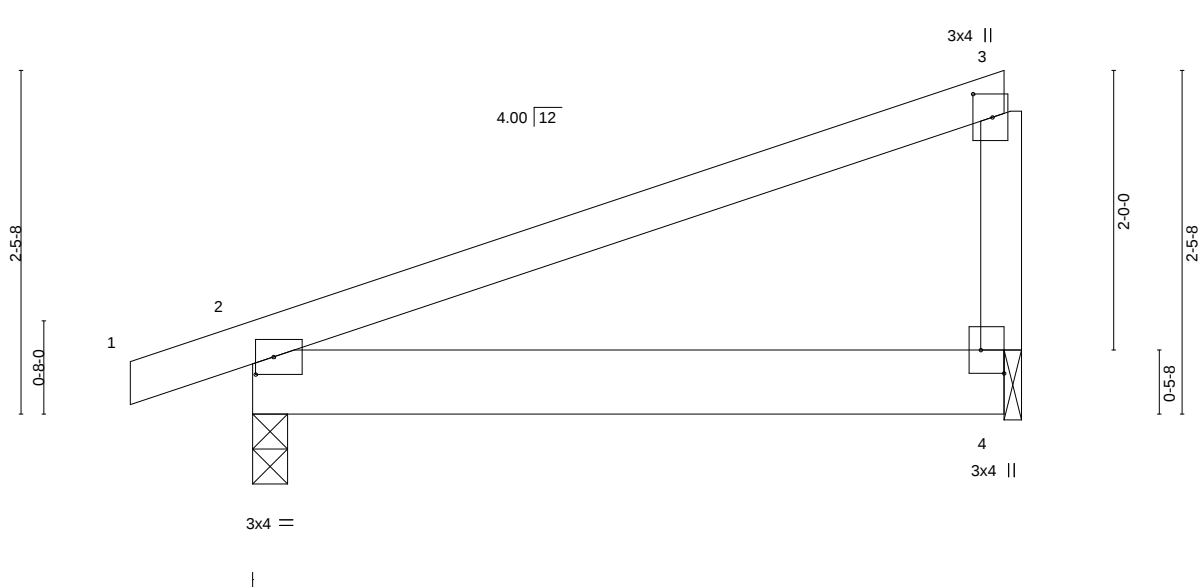


Plate Offsets (X,Y)-- [2:0-1-9,0-1-8], [3:0-2-0,0-1-11], [4:Edge,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.03	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	Weight: 25 lb FT = 20%	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS					

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-0, 4=0-1-8
Max Horz 2=72(LC 8)
Max Uplift 2=-104(LC 8), 4=-93(LC 8)
Max Grav 2=271(LC 1), 4=210(LC 1)

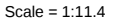
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-4-4 zone; porch left 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 93 lb uplift at joint 4.
 - 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.



September 10, 2025

Comtech, Inc. Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:15 2025 Page 1
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 -0-10-8 3-2-0
 0-10-8 3-2-0



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-2-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2 and 21 lb uplift at joint 6.



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ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	D2A	MONOPITCH	3	1	176233577
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:16 2025 Page 1

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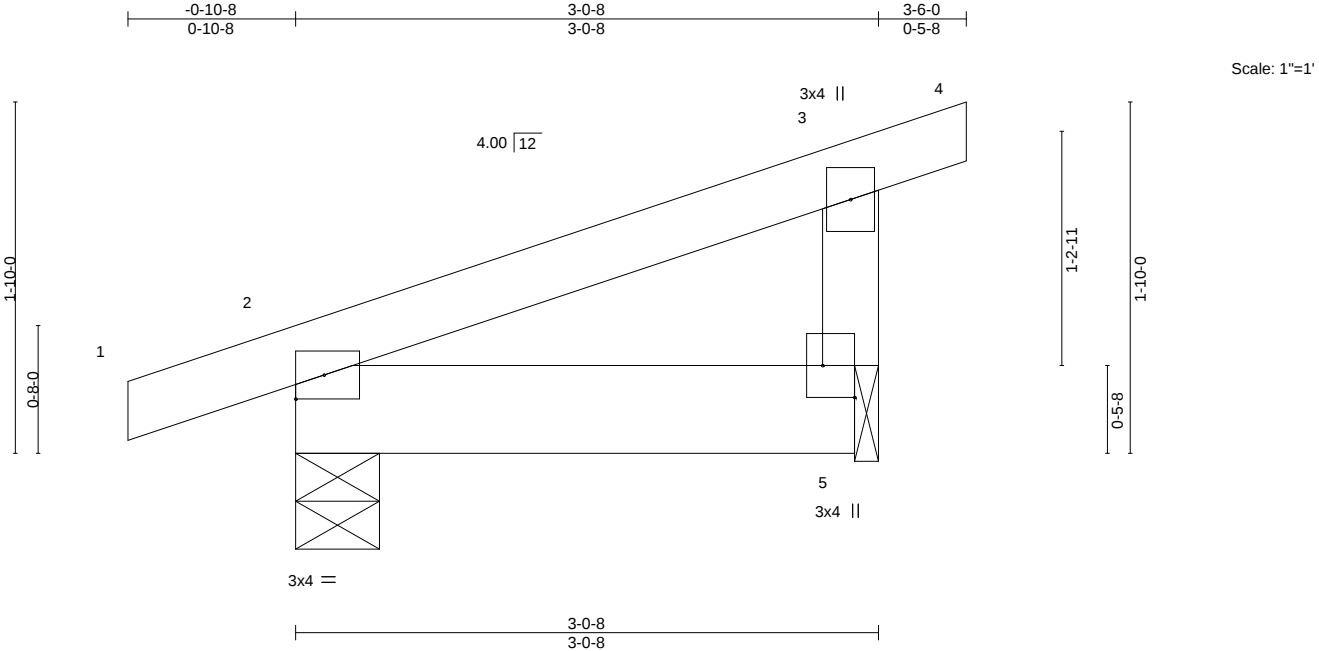


Plate Offsets (X,Y)--		[5:Edge,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 8 >999 360
			Vert(CT) -0.00 5-8 >999 240
			Horz(CT) 0.00 2 n/a n/a
			Wind(LL) 0.00 8 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 15 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-5-4, 5=0-1-8
Max Horz 2=51(LC 8)
Max Uplift 2=-37(LC 8), 5=-31(LC 12)
Max Grav 2=172(LC 1), 5=148(LC 1)

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

- 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
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 31 lb uplift at joint 5.



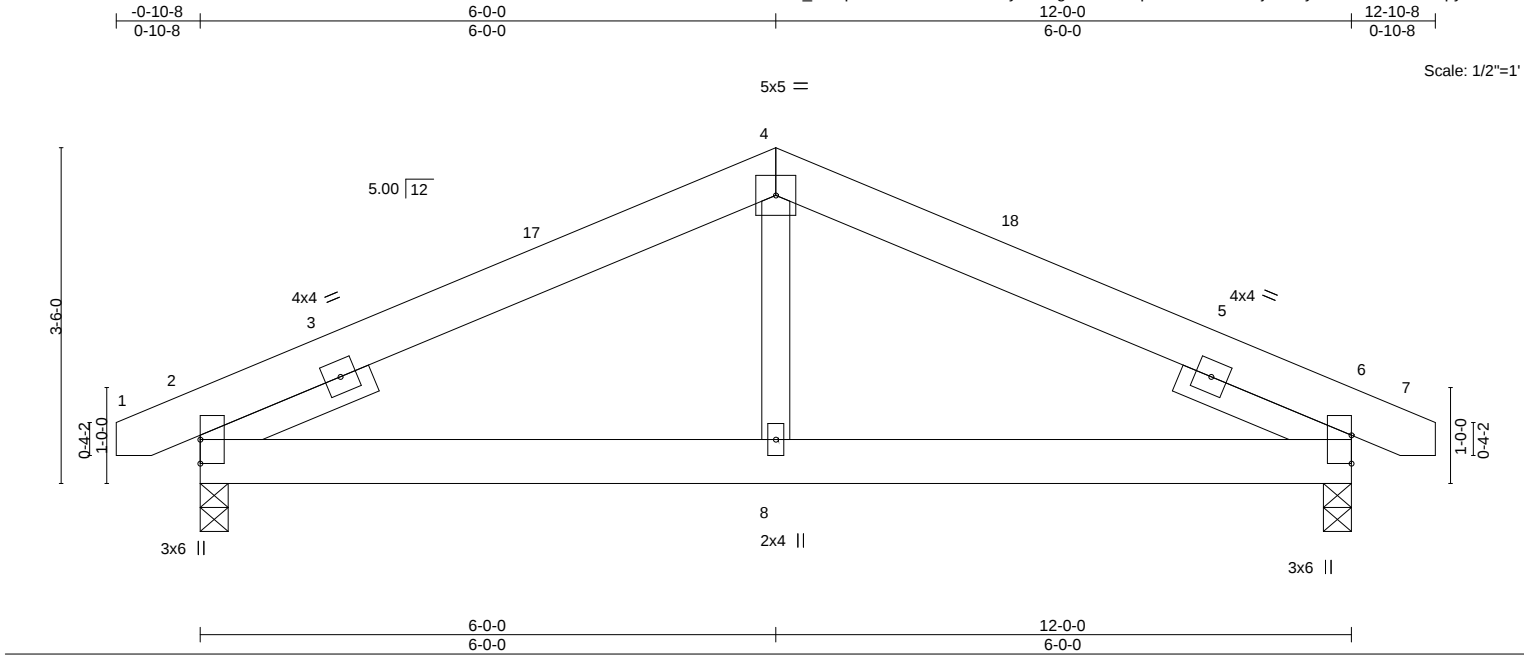
September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	G1	COMMON	4	1	176233578

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:16 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-DzuL5XdpHnkh?EaD4bCjxRzSyzKOUzOmUcVaTpyfJif

Job Reference (optional)



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.01				

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0		

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=33(LC 12)
 Max Uplift 2=-39(LC 12), 6=-39(LC 13)
 Max Grav 2=522(LC 1), 6=522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-569/350, 4-6=-569/350
 BOT CHORD 2-8=-204/525, 6-8=-204/525

- 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 12-8-5 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 3-6-0 tall by 2-0-0 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 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.



September 10,2025

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Edenton, NC 27932

Comtech, Inc. Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:17 2025 Page 1
 ID:_09zqKsf9De2KkT15adaCvyCKWg-hASjIteR25sYdO9PeljyUeWevMh3DQzviGE70FyfJie
 -0-10-8 6-0-0 12-0-0 12-10-8
 0-10-8 6-0-0 6-0-0 0-10-8



LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 1-10-4, Right 2x4 SP No.2 1-10-4		

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-5 to 4-0-0, Exterior(2N) 4-0-0 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to 12-8-5 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 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.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 14, 10, 13, 11.



Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	H1	Monopitch	7	1	176233580
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:17 2025 Page 1
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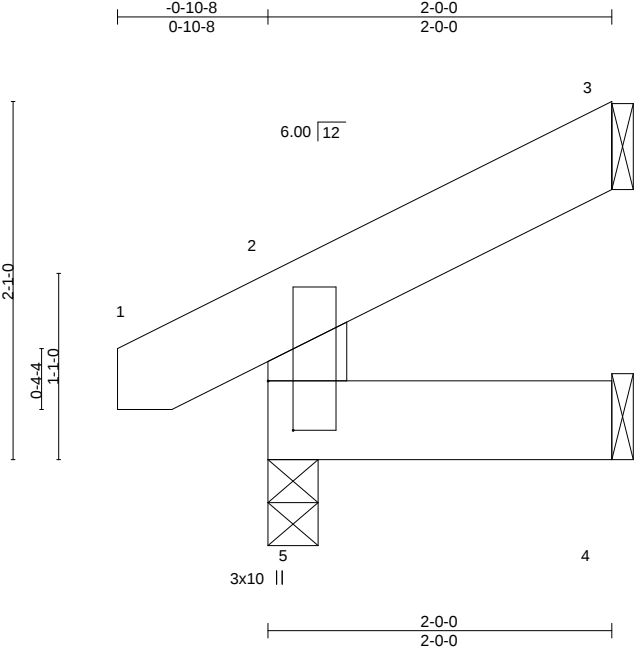


Plate Offsets (X,Y)--		[5:0-3-7,0-1-12]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.00 5 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.00 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-MR		Weight: 13 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x6 SP No.2		

REACTIONS. (size) 5=0-3-8, 4=Mechanical
Max Horz 5=53(LC 9)
Max Uplift 5=-18(LC 9), 4=-34(LC 9)
Max Grav 5=142(LC 1), 4=66(LC 26)

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

- 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
 - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 5, 4.



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

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

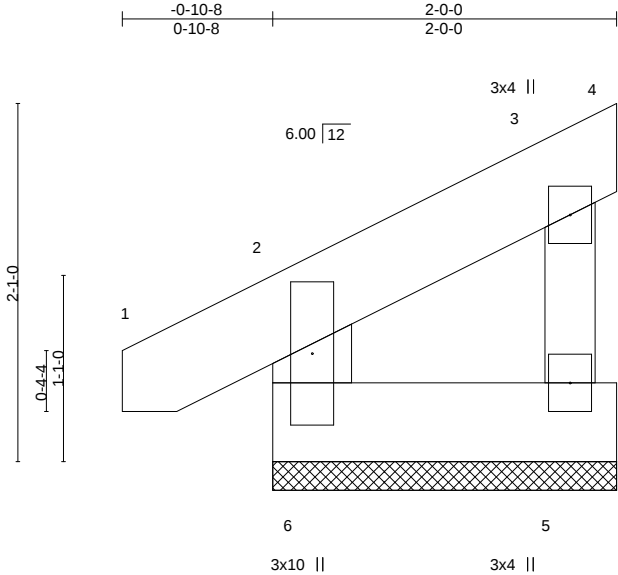
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	H1GE	MONOPITCH SUPPORTED	2	1	176233581

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25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:18 2025 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-R					Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2 *Except*	
3-5: 2x4 SP No.2	

REACTIONS. (size) 6=2-0-0, 4=2-0-0, 5=2-0-0
Max Horz 6=60(LC 12)
Max Uplift 6=-16(LC 12), 4=-18(LC 12), 5=-36(LC 12)
Max Grav 6=136(LC 1), 4=18(LC 1), 5=38(LC 1)

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

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone 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.
 - Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 5.



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Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VB1	VALLEY	1	1	176233582

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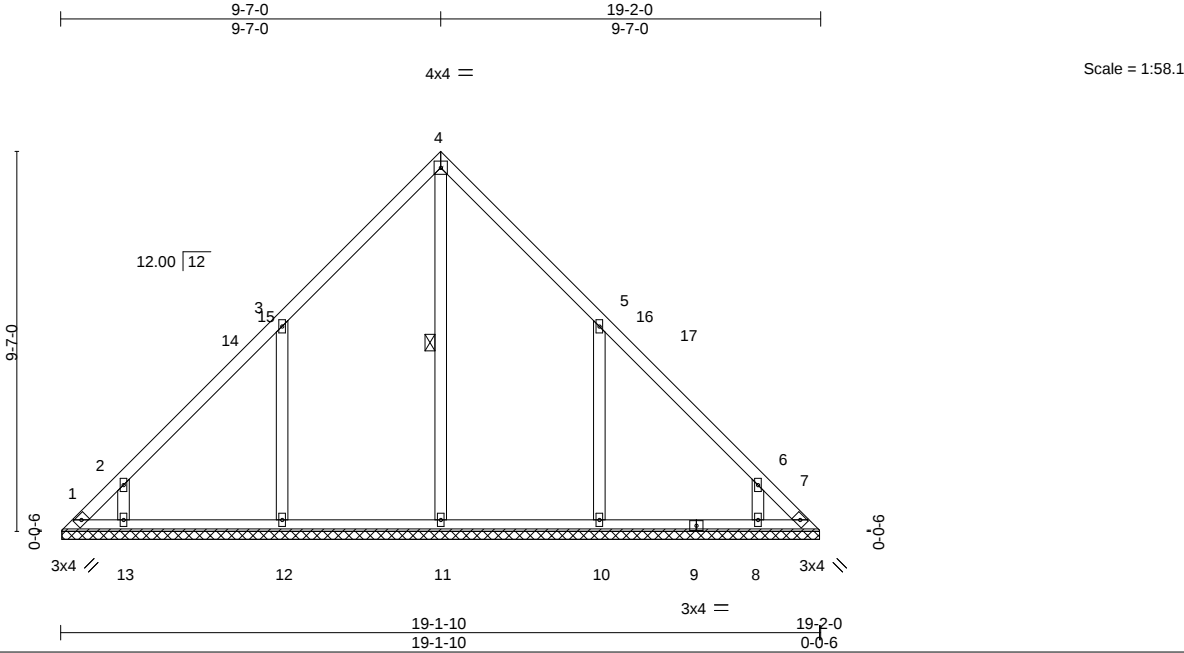


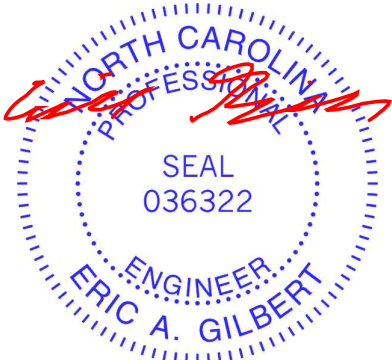
Plate Offsets (X,Y)--		[5:0-0-0,0-0-0], [6:0-0-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16
TCDL 10.0	Lumber DOL	1.15	BC 0.18
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 7 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 99 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 4-11

REACTIONS.	All bearings 19-1-4.
(lb) - Max Horz	1=221(LC 9)
Max Uplift	All uplift 100 lb or less at joint(s) except 1=-138(LC 10), 7=-102(LC 11), 12=-185(LC 12), 13=-132(LC 12), 10=-184(LC 13), 8=-133(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 1, 7 except 11=425(LC 22), 12=522(LC 19), 13=337(LC 19), 10=522(LC 20), 8=337(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-274/202, 6-7=-266/161
WEBS	3-12=-319/313, 5-10=-318/313

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-7-0, Exterior(2R) 9-7-0 to 13-11-13, Interior(1) 13-11-13 to 18-9-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1, 102 lb uplift at joint 7, 185 lb uplift at joint 12, 132 lb uplift at joint 13, 184 lb uplift at joint 10 and 133 lb uplift at joint 8.



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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2	WEBS	1 Row at midpt 3-8

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-7-0, Interior(1) 4-7-0 to 8-7-0, Exterior(2R) 8-7-0 to 12-11-13, Interior(1) 12-11-13 to 16-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=207, 6=207.



Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VB3	VALLEY	1	1	176233584

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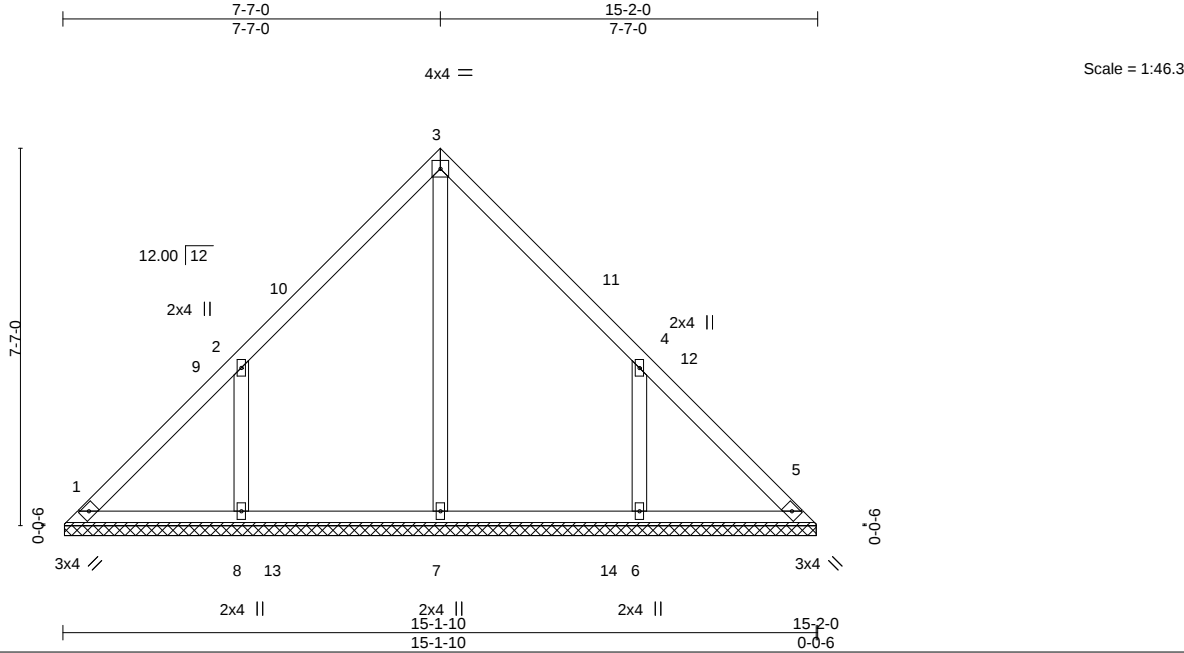


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	in (loc)	l/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.15	BC	0.17	n/a	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	n/a	n/a	999	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		0.00	5	n/a	
								Weight: 72 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 15-1-4.
(lb) - Max Horz 1=173(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-181(LC 12), 6=-181(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=407(LC 22), 8=493(LC 19), 6=492(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-311/347, 4-6=-311/347

- 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) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-7-0, Exterior(2R) 7-7-0 to 11-11-13, Interior(1) 11-11-13 to 14-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=181, 6=181.



September 10, 2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VB4	VALLEY	1	1	176233585

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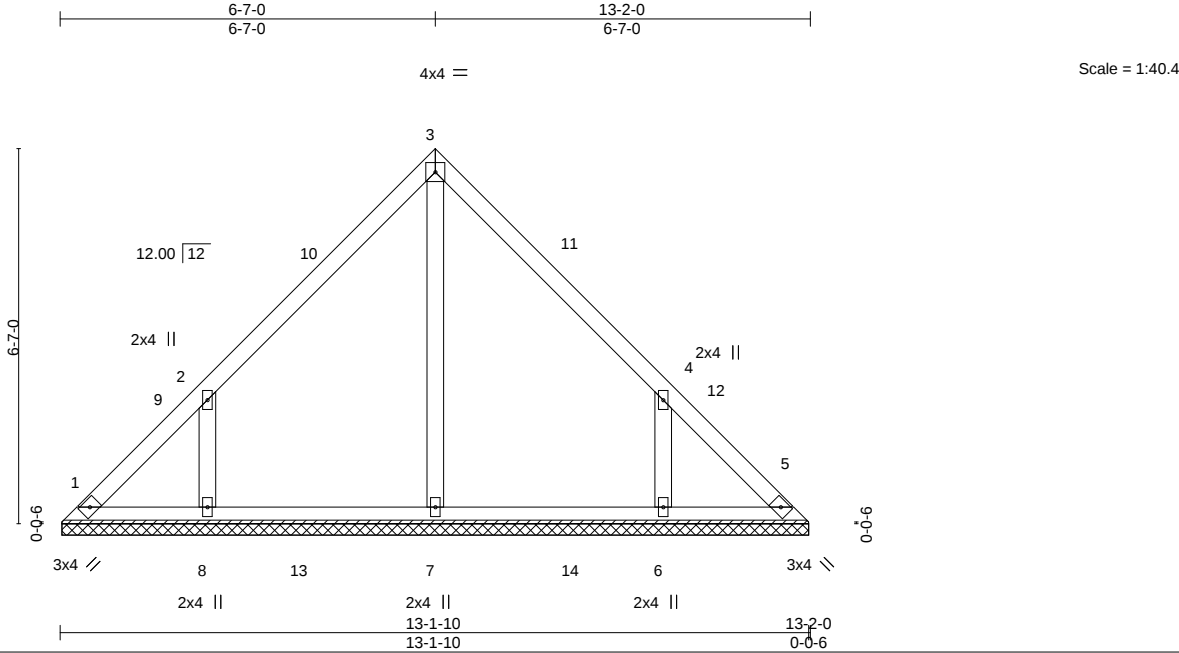


Plate Offsets (X,Y)--		[4:0-0-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16
TCDL 10.0	Lumber DOL	1.15	BC 0.16
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 5 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 61 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 13-1-4.
(lb) - Max Horz 1=-149(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-163(LC 12), 6=-163(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=394(LC 19), 8=420(LC 19), 6=420(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-295/364, 4-6=-295/364

- 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) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-7-0, Exterior(2R) 6-7-0 to 10-11-13, Interior(1) 10-11-13 to 12-9-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=163, 6=163.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VB5	VALLEY	1	1	176233586
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:20 2025 Page 1
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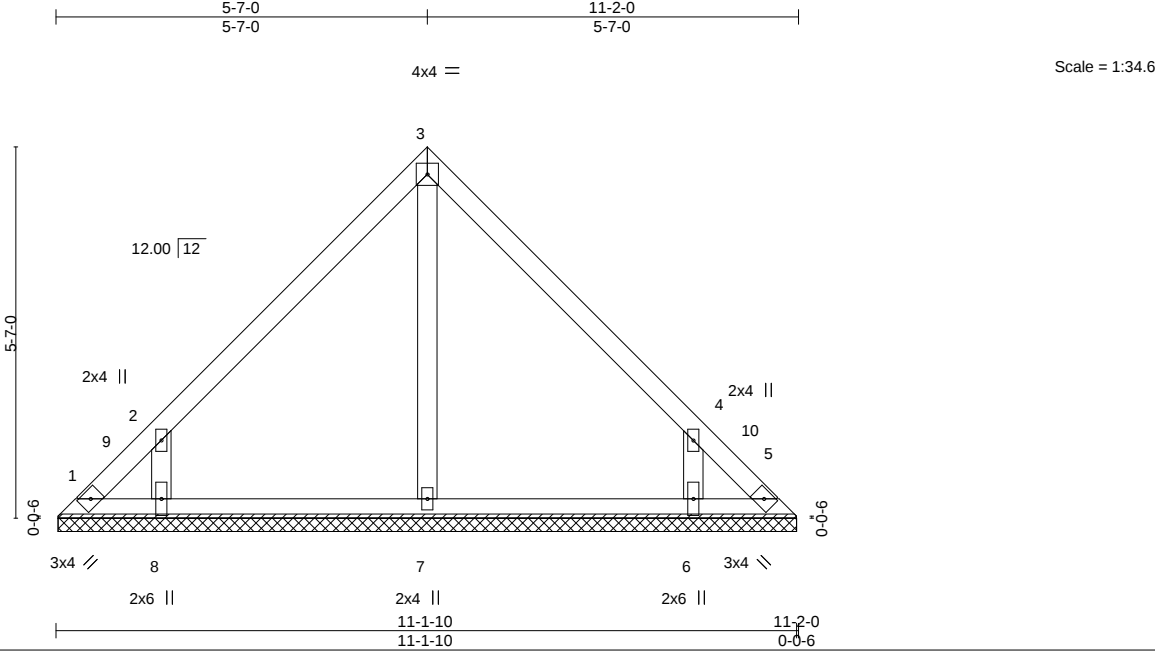


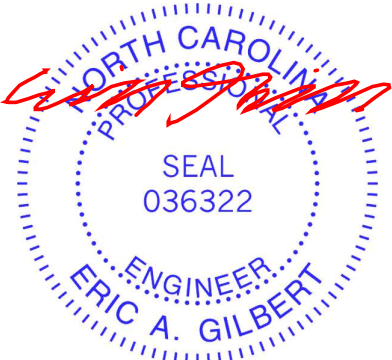
Plate Offsets (X,Y)--		[4:0-0-0,0-0-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S		Weight: 49 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 11-1-4.
(lb) - Max Horz 1=-125(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-165(LC 12), 6=-165(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=346(LC 19), 6=345(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-318/442, 4-6=-318/442

- 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) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-7-0, Exterior(2R) 5-7-0 to 9-11-13, Interior(1) 9-11-13 to 10-9-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=6) 8=165, 6=165.

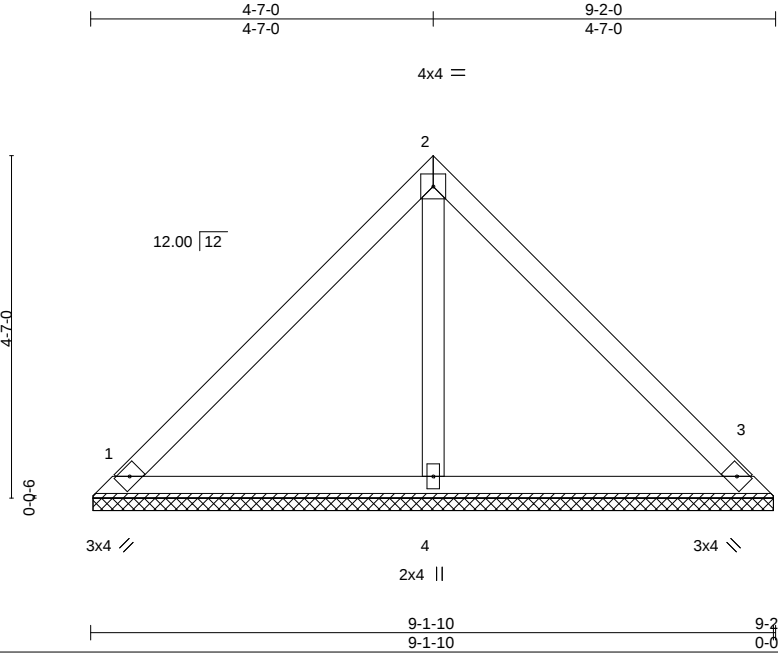


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Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VB6	VALLEY	1	1	176233587

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25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:21 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-ZxiE8Ehy6KN_6?Tat8nueUhG__049DdVduCL90yfJia



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S						Weight: 37 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=9-1-4, 3=9-1-4, 4=9-1-4
Max Horz 1=-101(LC 8)
Max Uplift 1=-25(LC 13), 3=-25(LC 13)
Max Grav 1=192(LC 1), 3=192(LC 1), 4=293(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



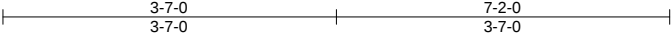
September 10,2025

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.sbcacompnents.com)

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

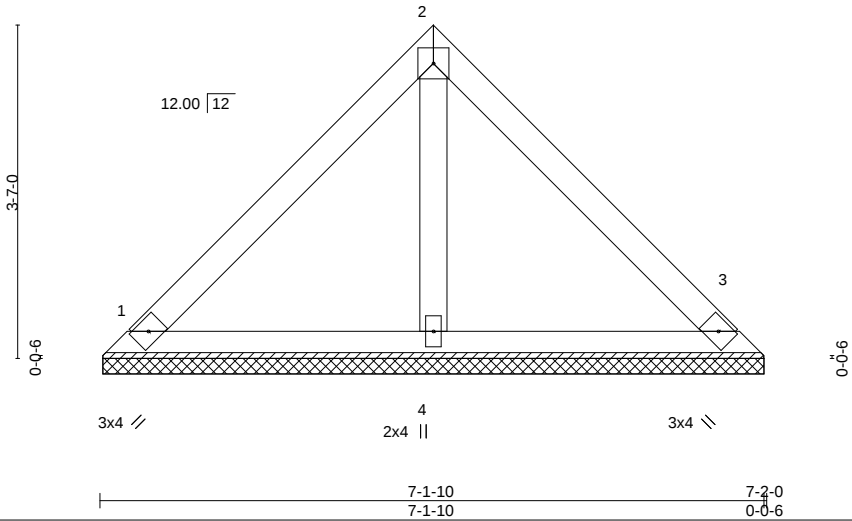
Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VB7	VALLEY	1	1	176233588
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:21 2025 Page 1
ID: _09zqKsf9De2KKt15adaCvyCKWg-ZxiE8Ehy6KN_6?TAt8nueUhGy_1y9D3VduCL90yfJia



4x4 =

Scale = 1:24.8



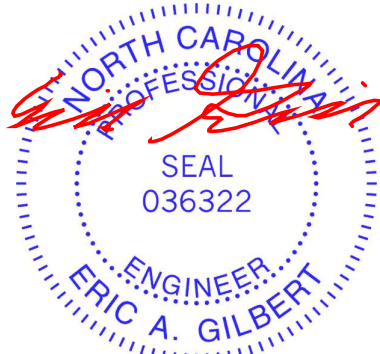
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 29 lb	FT = 20%
	Code IRC2021/TPI2014								

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=7-1-4, 3=7-1-4, 4=7-1-4
Max Horz 1=-77(LC 10)
Max Uplift 1=-28(LC 13), 3=-28(LC 13)
Max Grav 1=157(LC 1), 3=157(LC 1), 4=202(LC 1)

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

- 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
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



September 10,2025

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 ID: _09zqKsf9De2KkT15adaCvyCKWg-17GcLaiatdVrj92NRsJ7BiDTfNMZuggesYyuhTyfJiZ
 2-7-0 5-2-0
 2-7-0 2-7-0

Technical drawing of a roof truss structure. The drawing includes the following elements:

- Dimensions:**
 - Vertical height: 2.7.0
 - Horizontal span: 0.0.6
 - Roof slope: 12.00 | 12
 - Horizontal distance from left support to peak: 5.1-10
 - Horizontal distance from peak to right support: 5.1-10
 - Horizontal distance from left support to right support: 5.2
- Annotations:**
 - 3x4 = (at the top)
 - 3x4 // (at the bottom left)
 - 3x4 // (at the bottom right)
 - 1, 2, 3 (numbered points on the truss)
- Structural Details:**
 - Roof truss with a horizontal tie beam.
 - Supports at the base, indicated by hatched areas.
 - Right-angle symbols at the base of the truss.

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VB9	VALLEY	1	1	176233590

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25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:22 2025 Page 1
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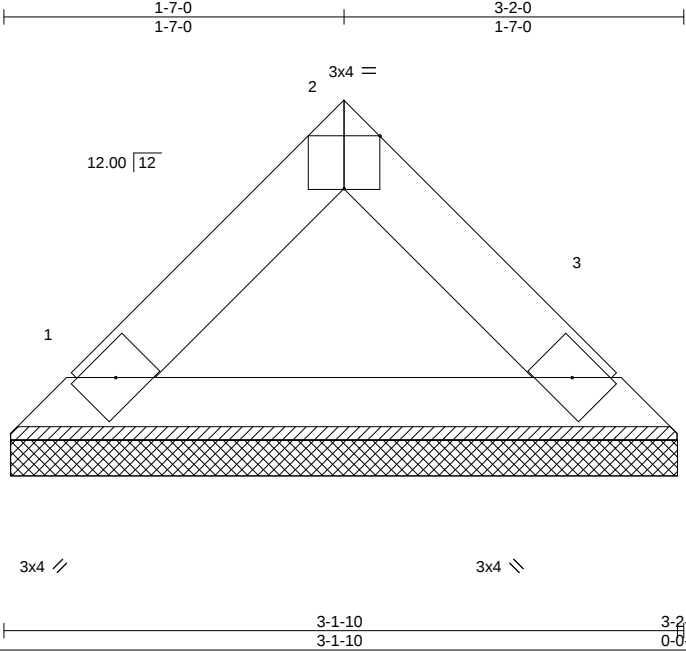


Plate Offsets (X,Y)-- [2:0-2:0,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.15	TC 0.05		Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL 10.0		Lumber DOL	1.15	BC 0.05		Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014		Matrix-P						Weight: 10 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-2-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-4, 3=3-1-4
Max Horz 1=-30(LC 8)
Max Uplift 1=-3(LC 12), 3=-3(LC 12)
Max Grav 1=99(LC 1), 3=99(LC 1)

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

- 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
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

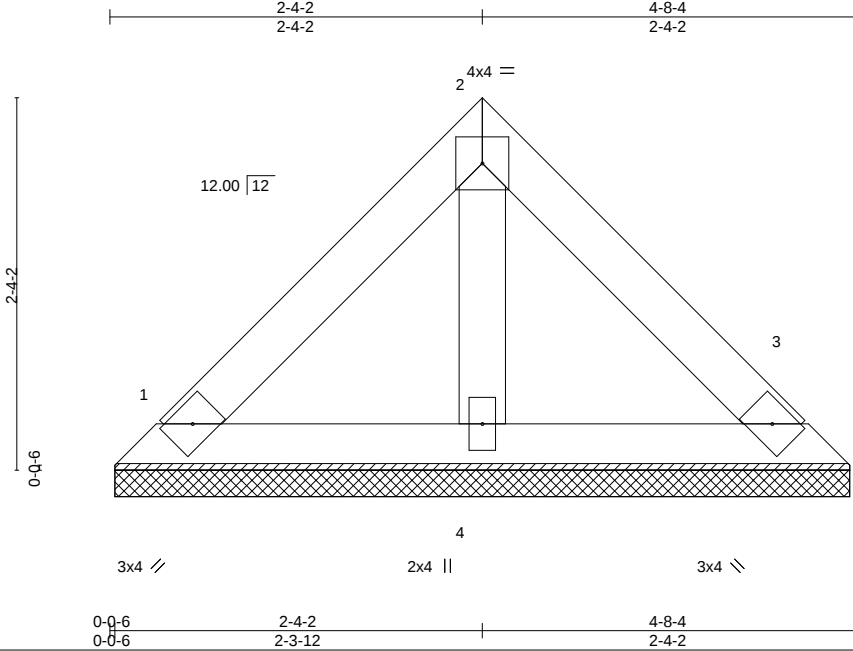


September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VD1	VALLEY	1	1	176233591

Comtech, Inc, Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:22 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-17GcLaiatdVrj92NRsJ7BiDV_NowugXesYyuhTyfJiZ



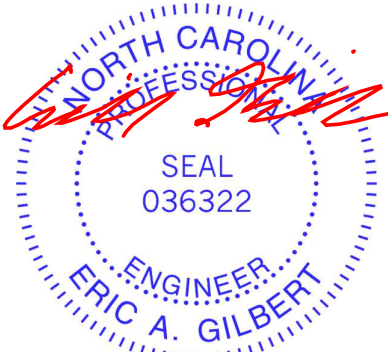
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=4-7-8, 3=4-7-8, 4=4-7-8
Max Horz 1=-60(LC 10)
Max Uplift 1=-34(LC 13), 3=-34(LC 13)
Max Grav 1=97(LC 1), 3=97(LC 1), 4=125(LC 1)

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

- 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) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

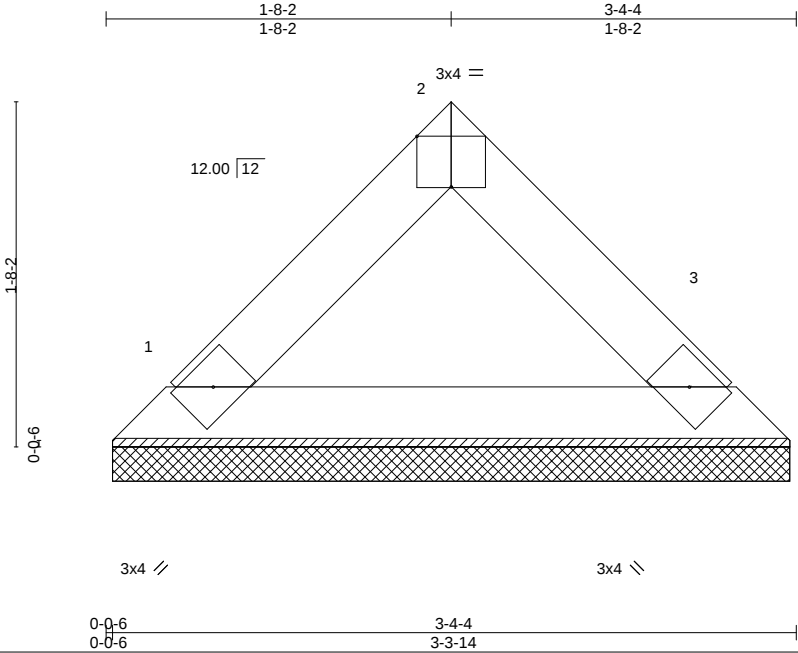


September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VD2	VALLEY	1	1	176233592

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:23 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-WJq_ZwjCexdiLJdZ_ZqMjvmgqnkid7vo5ChSDvyfJiY



Scale = 1:11.2

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	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	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-4-4 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-3-8, 3=3-3-8
 Max Horz 1=32(LC 9)
 Max Uplift 1=-3(LC 13), 3=-3(LC 13)
 Max Grav 1=106(LC 1), 3=106(LC 1)

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

- 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
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

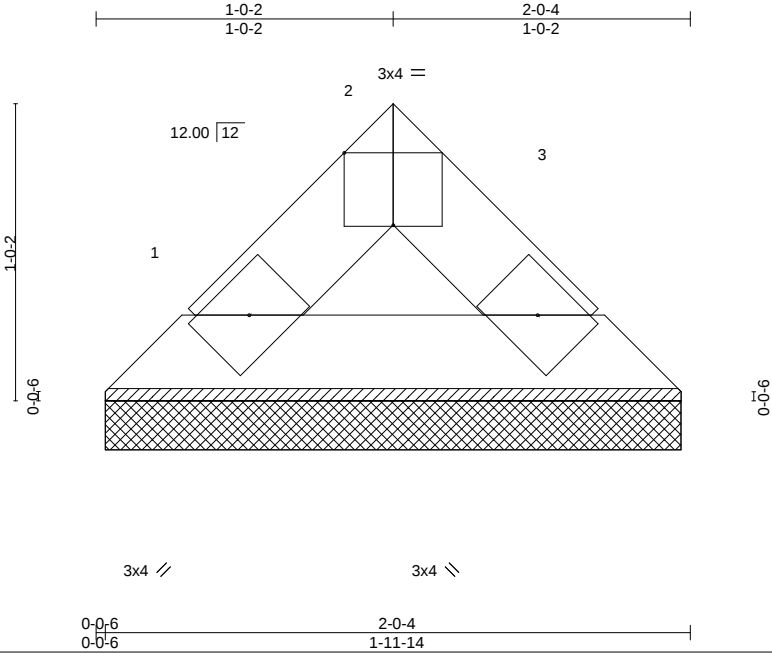


September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	VD3	VALLEY	1	1	176233593

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:23 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-WJq_ZwjCexdiLJdZ_ZqMjvmgSnkQd7vo5ChSDvyfJiY



Scale = 1:7.8

Plate Offsets (X,Y)-- [2:0-2:0,Edge]		2:0-2:0,Edge	
LOADING (psf)	SPACING-	2:0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.01
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P
			DEFL. in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 6 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-0-4 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-11-8, 3=1-11-8
Max Horz 1=-16(LC 8)
Max Uplift 1=-2(LC 13), 3=-2(LC 13)
Max Grav 1=53(LC 1), 3=53(LC 1)

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

- 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
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



September 10,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	X1	ROOF SPECIAL	3	1	176233594

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:24 2025 Page 1

ID: _09zqKsf9De2KkT15adaCvyCKWg-_WNNmGkqPFIZzTCIYGLbG7JnTB1bMa9xJsR?mLyfJiX

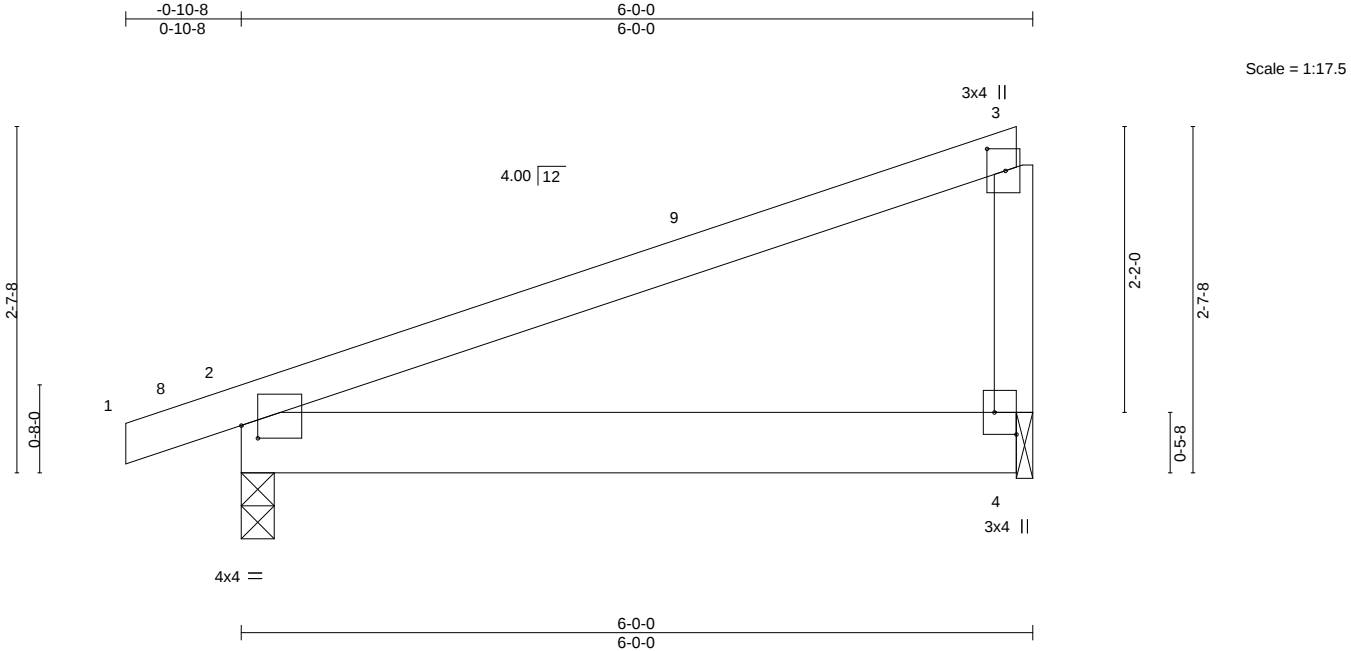


Plate Offsets (X,Y)--		[2:0-1-8,0-1-2], [3:0-2-0,0-1-11], [4:Edge,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32
TCDL 10.0	Lumber DOL	1.15	BC 0.21
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.05 4-7 >999 240
			Vert(CT) -0.04 4-7 >999 240
			Horz(CT) -0.01 2 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 27 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 4=0-1-8
Max Horz 2=78(LC 8)
Max Uplift 2=-110(LC 8), 4=-102(LC 8)
Max Grav 2=291(LC 1), 4=230(LC 1)

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

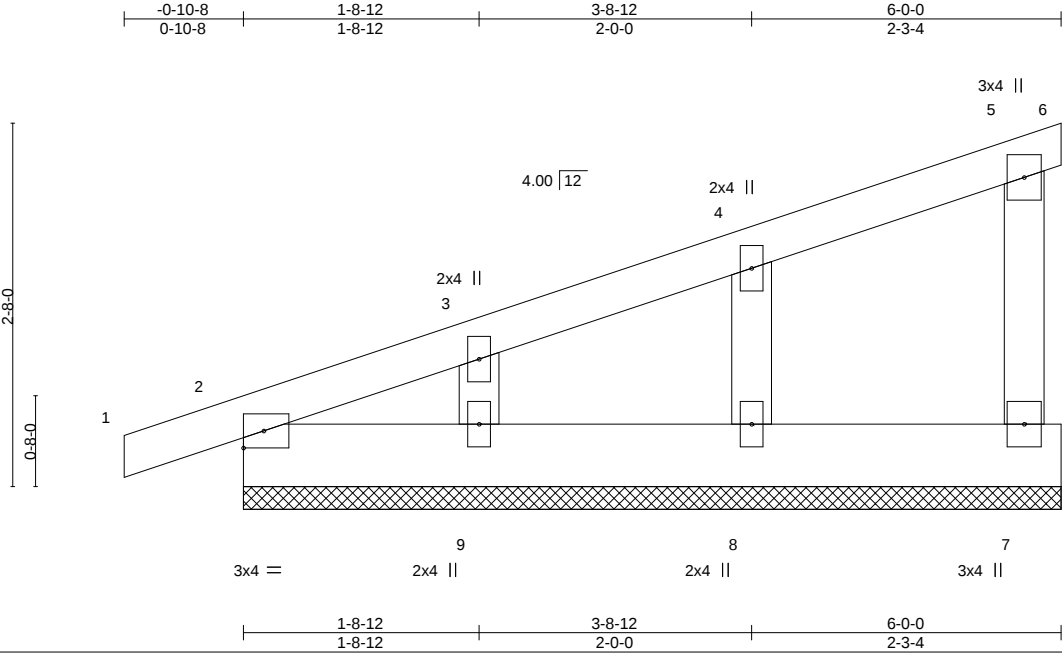
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-4 zone; porch left exposed;C-C 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=110, 4=102.
 - 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.



September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	X1GE	MONOPITCH SUPPORTED	1	1	176233595
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:24 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg- WNNmGkqPFIZz7TCIYGLbG7JrZB4iMaTxJsR?mLyfJiX



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00	1	n/r	120		
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-P					Weight: 30 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. All bearings 6-0-0.
(lb) - Max Horz 2=107(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 2, 8, 9
Max Grav All reactions 250 lb or less at joint(s) 6, 7, 2, 8, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-8=-132/255

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-8-12, Exterior(2N) 3-8-12 to 6-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 2, 8, 9.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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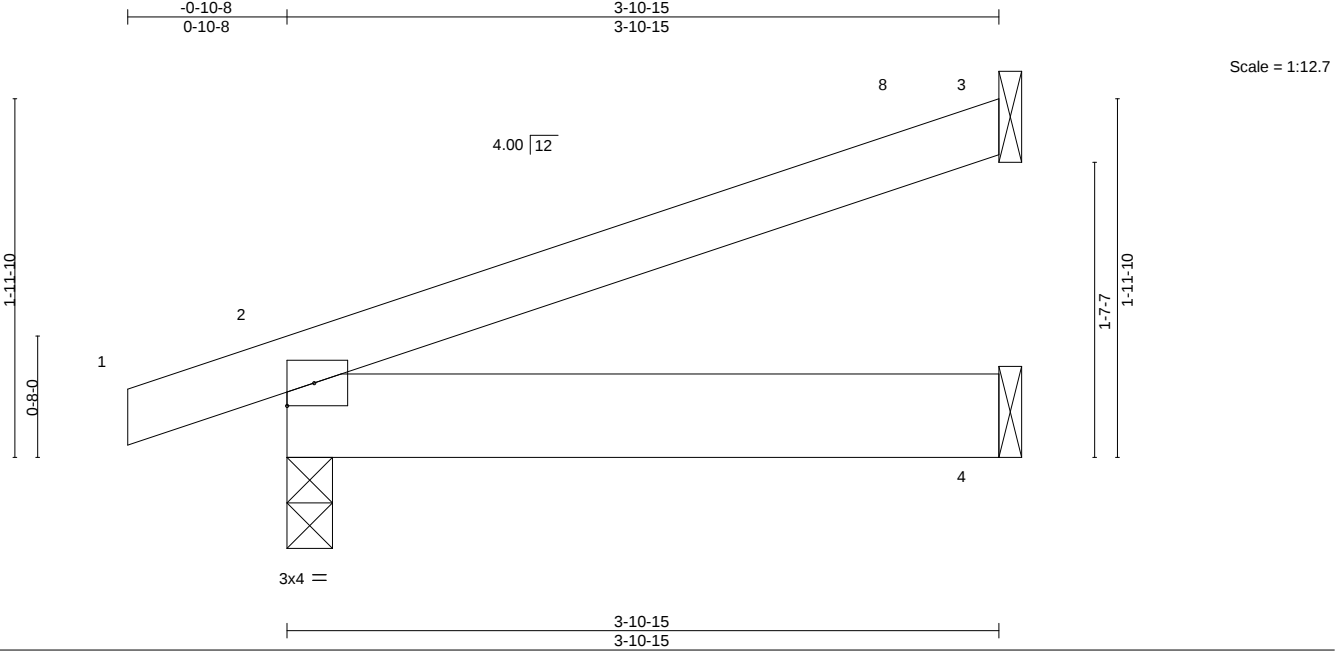
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	Y1	JACK-OPEN	2	1	176233596
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:25 2025 Page 1

ID: _09zqKsf9De2KkT15adaCvyCKWg-Sixl_ckSAYtQadmy6_sqpKr__bPg51P5YWAYloyfJiW



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.14		Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09		Vert(CT)	-0.01	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MP							Weight: 17 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=56(LC 8)
Max Uplift 3=-37(LC 8), 2=-84(LC 8), 4=-30(LC 8)
Max Grav 3=89(LC 1), 2=212(LC 1), 4=80(LC 3)

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

- NOTES-**
- 1) 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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 3-10-3 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

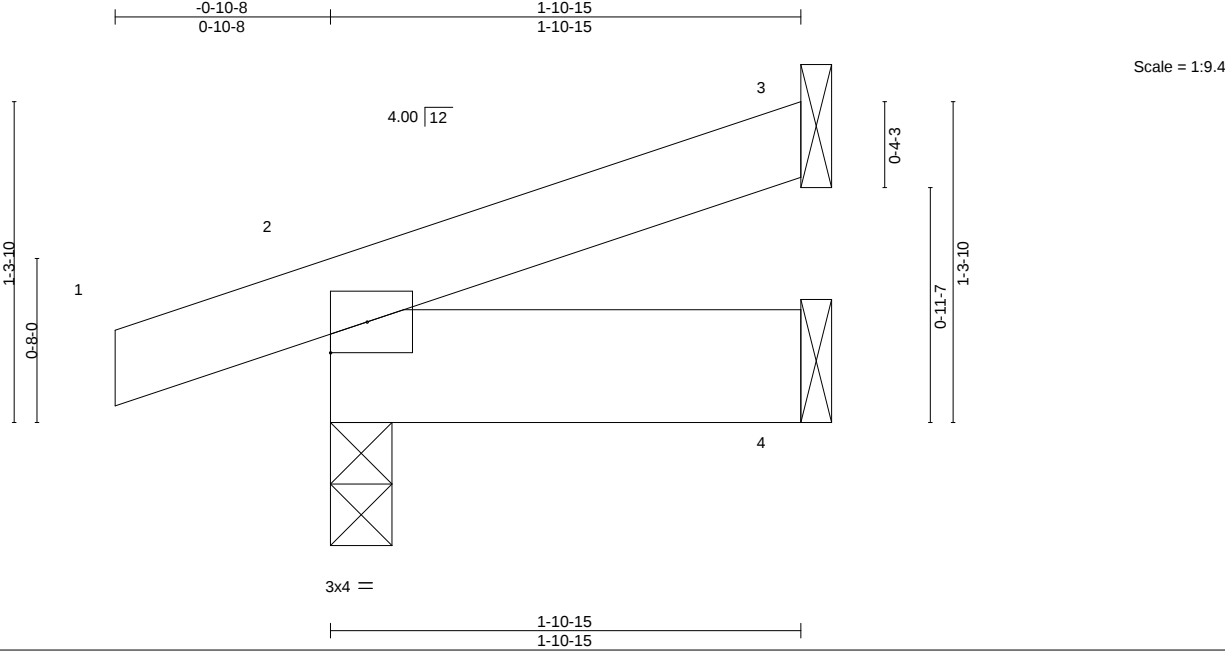


September 10,2025

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	Y2	JACK-OPEN	2	1	176233597
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:25 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-Sixl_ckSAYtQadmy6_sqpKr0dbQp51P5YWAYIoyfJiW



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MP						Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=35(LC 8)
Max Uplift 3=-17(LC 8), 2=-61(LC 8), 4=-14(LC 9)
Max Grav 3=40(LC 1), 2=141(LC 1), 4=37(LC 3)

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

- NOTES-**
- 1) 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; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



September 10,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Duncan's Creek
250917-A	Z1	DIAGONAL HIP GIRDER	1	1	176233598

Comtech, Inc., Fayetteville, NC - 28314,

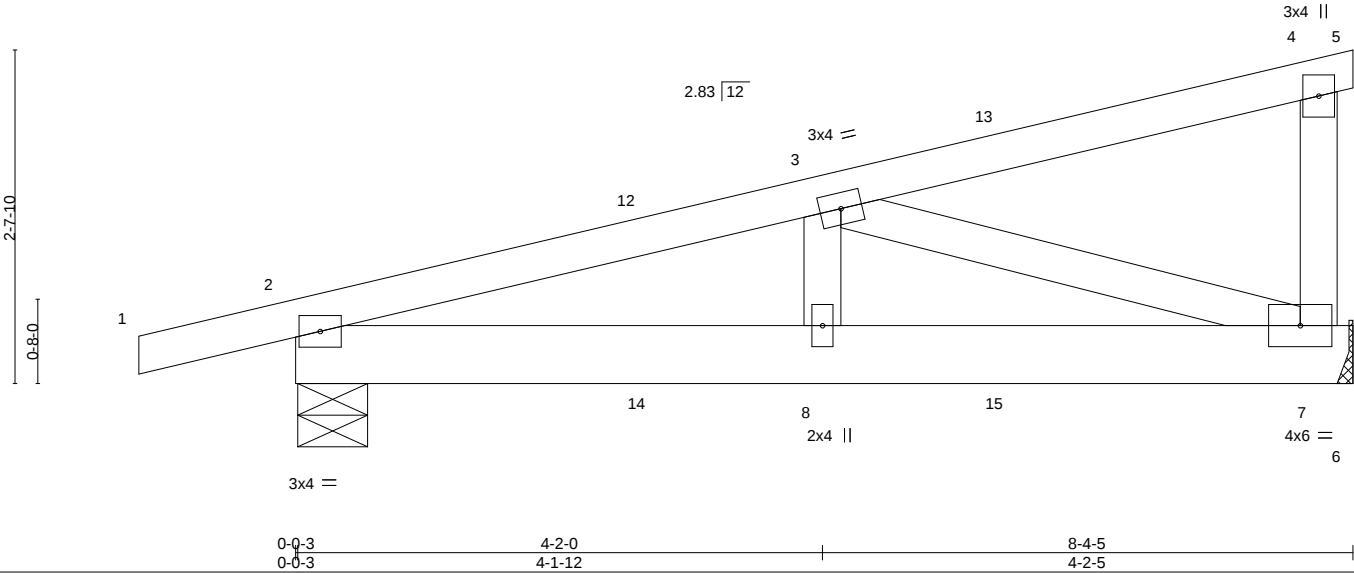
25.3.0 s Aug 20 2025 MiTek Industries, Inc. Tue Sep 9 15:47:25 2025 Page 1

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Job Reference (optional)



Scale = 1:18.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) 0.02	7-8	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.02	7-8	>999	240			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.19	Horz(CT) 0.00	7	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014	Matrix-MP						Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-6-10, 7=Mechanical
Max Horz 2=78(LC 4)
Max Uplift 2=-181(LC 4), 7=-168(LC 4)
Max Grav 2=430(LC 1), 7=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-652/246
BOT CHORD 2-8=-281/610, 7-8=-281/610
WEBS 3-7=-641/296

- NOTES-**
- 1) 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); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=181, 7=168.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 15 lb down and 23 lb up at 2-9-8, 15 lb down and 23 lb up at 2-9-8, and 35 lb down and 46 lb up at 5-7-7, and 35 lb down and 46 lb up at 5-7-7 on top chord, and 5 lb down and 28 lb up at 2-9-8, 5 lb down and 28 lb up at 2-9-8, and 31 lb down and 57 lb up at 5-7-7, and 31 lb down and 57 lb up at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-20, 6-9=-20

Concentrated Loads (lb)

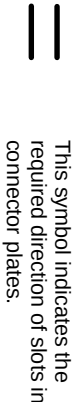
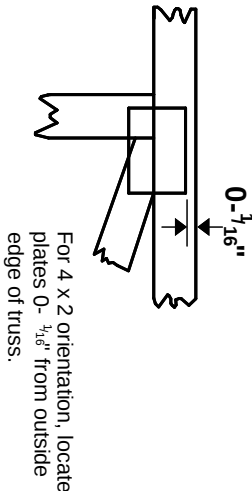
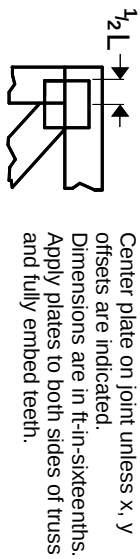
Vert: 13=-9(F=-4, B=-4) 14=-8(F=-4, B=-4) 15=-61(F=-30, B=-30)



September 10, 2025

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

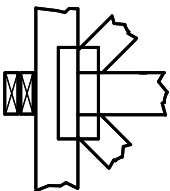
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

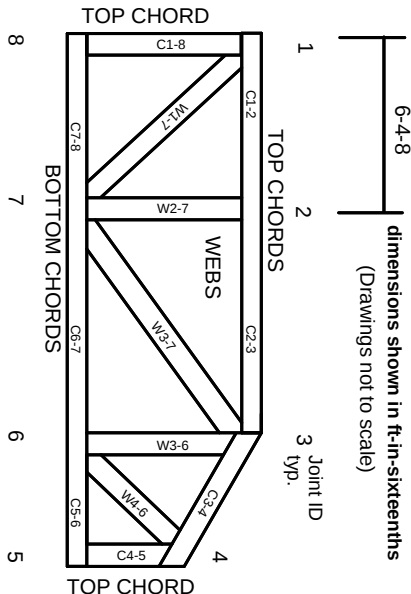


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

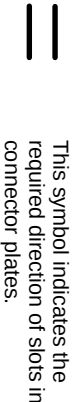
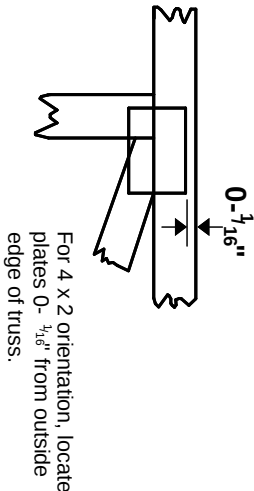
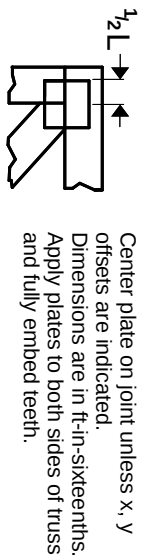
MITek

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

Symbols

PLATE LOCATION AND ORIENTATION



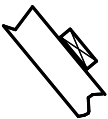
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

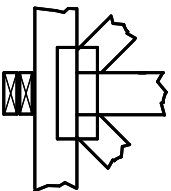
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

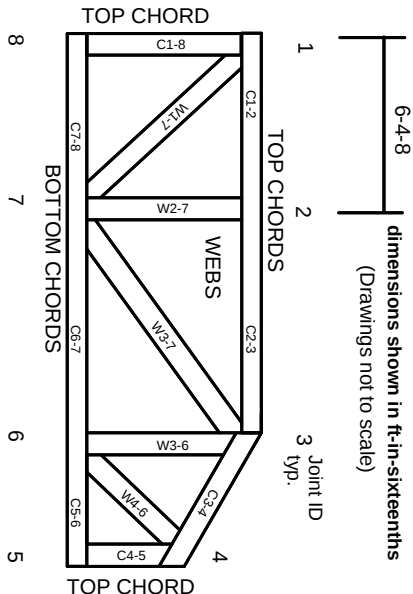
BEARING



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

Industry Standards:
ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023