

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0424-2462

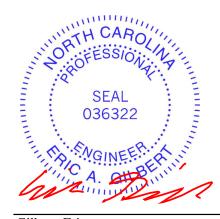
Lot 170 Duncans Creek

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: I65177542 thru I65177565

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

North Carolina COA: C-0844



April 26,2024

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 Lot 170 Duncans Creek 165177542 J0424-2462 A01GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:18:58 2024 Page 1

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

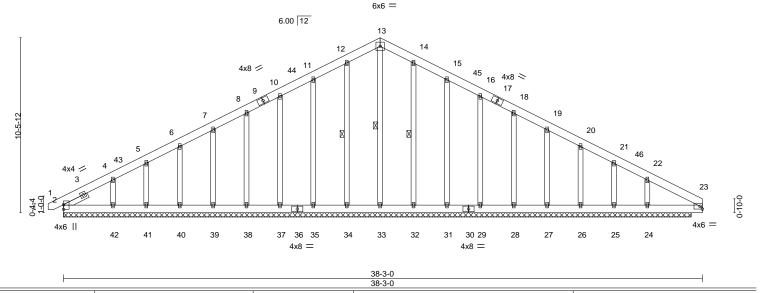
13-33, 12-34, 14-32

Rigid ceiling directly applied or 6-0-0 oc bracing

1 Row at midpt

-0-11-0 0-11-0 18-11-8 19-3-8

Scale = 1:69.0



LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES GRIP** 2-0-0 (loc) I/defl 20.0 Plate Grip DOL 0.00 244/190 **TCLL** 1.15 TC 0.10 Vert(LL) n/r 120 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 24 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 330 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 **OTHERS SLIDER** Left 2x4 SP No.2 1-7-0

REACTIONS. All bearings 37-7-0.

(lb) -Max Horz 2=-205(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 24 except

42=-159(LC 12), 25=-107(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 25

except 33=299(LC 22), 42=258(LC 1), 24=405(LC 1)

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

TOP CHORD 7-8=-10/261, 8-10=-14/302, 10-11=-34/360, 11-12=-55/425, 12-13=-73/458,

13-14=-73/442, 14-15=-55/374, 15-16=-34/300 13-33=-259/0, 4-42=-188/250, 22-24=-256/296

WEBS NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 18-11-8, Corner(3) 18-11-8 to 23-4-5, Exterior(2) 23-4-5 to 38-3-0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * 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, 34, 35, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 24 except (jt=lb) 42=159, 25=107.
- 9) Non Standard bearing condition. Review required.



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



Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177543 J0424-2462 A02 COMMON Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:18:59 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 24-11-15 28-0-2 -0-11-0 0-11-0 9-10-14 9-0-10 6-0-7 3-0-3 10-2-14 Scale = 1:71.9 6x6 = 6.00 12 5 4x8 / 23 4x8 < 6 2x4 \\ 2x4 // 26 27 13 1228 2911 10 9 30 31 4x6 || 4x6 || 4x6 || 6x8 =4x6 || 4x6 = 5x8 =5x8 = 4x6 || 6x8 =38₋3-0 0-4-0 24-11-15 37-11-0 12-11-1 12-11-1 12-0-14 Plate Offsets (X,Y)--[2:0-0-0,0-1-1] **GRIP** LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/def L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.37 Vert(LL) -0.17 9-14 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.49 Vert(CT) -0.27 9-14 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.05 8 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 9-14 240 Weight: 284 lb Matrix-AS 0.06 >999 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied.

BOT CHORD

Rigid ceiling directly applied.

TOP CHORD 2x6 SP No.1

BOT CHORD 2x8 SP No.1 *Except*

11-12: 2x4 SP No.1

2x4 SP No.2 **WEBS**

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-4-0

Max Horz 2=130(LC 11)

Max Uplift 2=-101(LC 12), 8=-94(LC 13) Max Grav 2=1662(LC 2), 8=1661(LC 2)

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

TOP CHORD 2-3=-2743/552, 3-5=-2502/581, 5-7=-2473/581, 7-8=-2719/552

BOT CHORD 2-14=-356/2397, 9-14=-126/1634, 8-9=-350/2321

WEBS 3-14=-528/314, 5-14=-137/1041, 5-9=-129/994, 7-9=-521/314

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb)
- 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.



April 26,2024

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

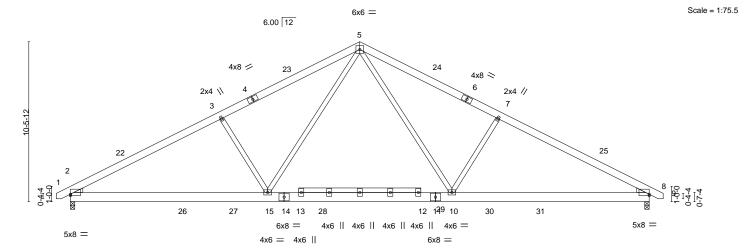
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 37-11-0 38-10₁0 9-10-14 9-0-10 9-0-10 9-10-14 0-11-b



H	12-11-1 12-11-1		24-11-15 12-0-13	37-11- 12-11-	
Plate Offsets (X,Y)	[2:0-0-0,0-1-1], [8:0-0-0,0-1-1]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.31 BC 0.41 WB 0.33 Matrix-AS	DEFL. in (loc) Vert(LL) -0.16 10-15 Vert(CT) -0.25 10-15 Horz(CT) 0.05 8 Wind(LL) 0.06 10-15	5 >999 360 5 >999 240 8 n/a n/a	PLATES GRIP MT20 244/190 Weight: 285 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x8 SP No.1 *Except*

12-13: 2x4 SP No.1

2x4 SP No.2 WEBS WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=-128(LC 10)

Max Uplift 2=-101(LC 12), 8=-101(LC 13)

Max Grav 2=1669(LC 2), 8=1669(LC 2)

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

TOP CHORD 2-3=-2756/554, 3-5=-2515/583, 5-7=-2515/583, 7-8=-2756/555

BOT CHORD 2-15=-340/2411, 10-15=-122/1653, 8-10=-351/2362 WEBS 5-10=-135/1033, 7-10=-528/314, 5-15=-135/1033, 3-15=-528/314

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.



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Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177545 J0424-2462 A04GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:00 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

9-0-10

28-0-2

9-0-10

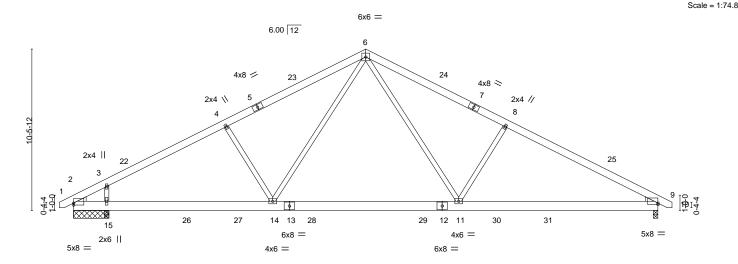
0-11-0

9-10-14

37-11-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



		2-3-8	10-7-9		6-0-7	6	i-0-7		12-	11-1	1
Plate Off	sets (X,Y)	[2:0-0-0,0-1-9], [9:0-0-	0,0-1-1]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.21 11-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.33 11-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05 9	n/a	n/a		
BCDL	10.0	Code IRC2015	/TPI2014	Matri	x-AS	Wind(LL)	0.09 11-14	>999	240	Weight: 275 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

18-11-8

24-11-15

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP No.1 WEBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. All bearings 2-3-8 except (jt=length) 9=0-3-8.

Max Horz 2=199(LC 12) (lb) -

2-3-8

Max Uplift All uplift 100 lb or less at joint(s) except 2=-209(LC 12), 9=-333(LC 13), 15=-130(LC 12) Max Grav All reactions 250 lb or less at joint(s) except 2=1422(LC 2), 9=1662(LC 2), 15=341(LC 3), 15=298(LC 1), 2=1281(LC 1)

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

9-10-14

TOP CHORD $2-3=-2592/394,\ 3-4=-2655/520,\ 4-6=-2459/551,\ 6-8=-2516/578,\ 8-9=-2757/549$ **BOT CHORD** 2-15=-466/2294, 14-15=-466/2294, 11-14=-161/1628, 9-11=-339/2361 WEBS 6-11=-248/1047, 8-11=-526/419, 6-14=-215/950, 4-14=-473/381, 3-15=-302/282

12-11-1

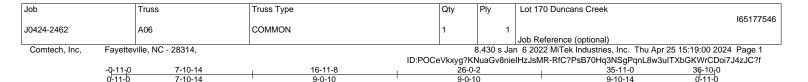
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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 209 lb uplift at joint 2, 333 lb uplift at joint 9, 130 lb uplift at joint 15 and 209 lb uplift at joint 2.
- 8) 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.



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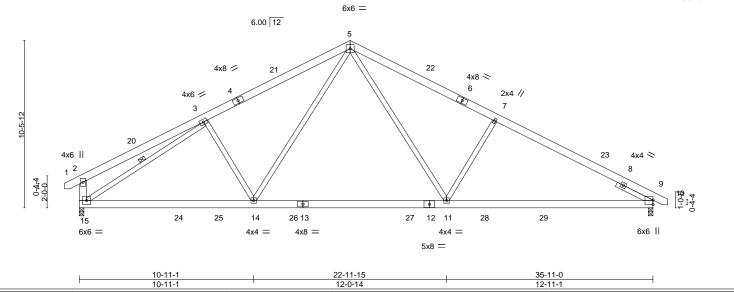


9-0-10

9-0-10

Scale = 1:72.1

9-10-14



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

I/defI

>999

>990

>999

n/a

Rigid ceiling directly applied.

in (loc)

9

1 Row at midpt

-0.30 11-14

-0.43 11-14

0.05 11-14

0.06

L/d

360

240

n/a

240

PLATES

Weight: 254 lb

MT20

Structural wood sheathing directly applied, except end verticals.

3-15

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

WEBS

LOADING (psf)

20.0

10.0

0.0

10.0

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

-0-11-0 0-11-0

7-10-14

2x4 SP No.2 *Except* 2-15: 2x6 SP No.1

SLIDER Right 2x4 SP No.2 2-6-0

REACTIONS.

(size) 15=0-3-8, 9=0-3-8 Max Horz 15=-170(LC 10)

Max Uplift 15=-91(LC 12), 9=-100(LC 13) Max Grav 15=1604(LC 2), 9=1588(LC 2)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-451/191, 3-5=-2105/507, 5-7=-2331/549, 7-9=-2530/517, 2-15=-435/273 **BOT CHORD**

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-AS

0.27

0.66

0.73

14-15=-246/1884, 11-14=-91/1481, 9-11=-313/2187

WEBS 3-14=-263/248, 5-14=-79/694, 5-11=-134/1063, 7-11=-516/305, 3-15=-1869/302

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 16-11-8, Exterior(2) 16-11-8 to 21-4-5, Interior(1) 21-4-5 to 36-8-2 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 15 and 100 lb uplift at
- 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.

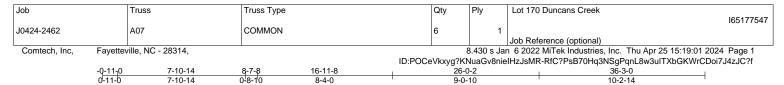


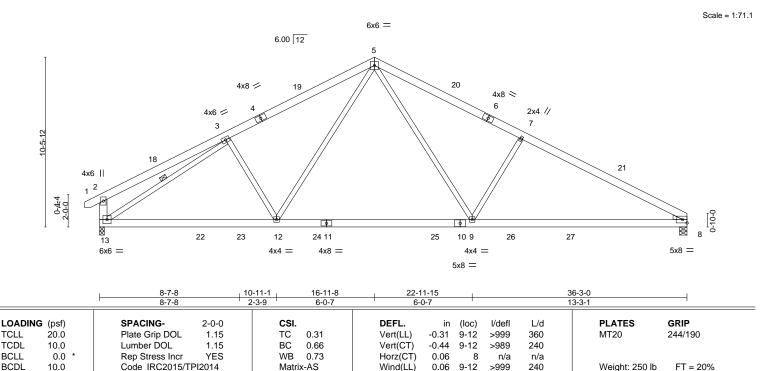
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BRACING-TOP CHORD

WEBS

BOT CHORD

LUMBER-

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

2-13: 2x6 SP No.1

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 13=0-3-8, 8=0-5-8

Max Horz 13=-164(LC 10)

Max Uplift 13=-91(LC 12), 8=-88(LC 13) Max Grav 13=1609(LC 2), 8=1557(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-451/190, 3-5=-2114/510, 5-7=-2352/560, 7-8=-2597/530, 2-13=-434/272 **BOT CHORD** 12-13=-274/1887, 9-12=-106/1483, 8-9=-334/2216

WEBS 3-12=-263/248, 5-12=-83/692, 5-9=-137/1082, 7-9=-538/319, 3-13=-1878/309

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 16-11-8, Exterior(2) 16-11-8 to 21-4-5, Interior(1) 21-4-5 to 36-0-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 13 and 88 lb uplift at
- 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.



Structural wood sheathing directly applied, except end verticals.

3-13

Rigid ceiling directly applied.

1 Row at midpt

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

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

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

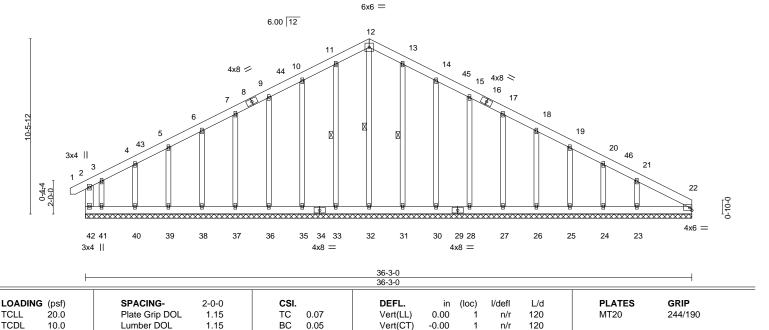


Job Truss Truss Type Qty Lot 170 Duncans Creek 165177548 J0424-2462 A08GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:01 2024 Page 1

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 0-11-0 16-11-8 19-3-8

Scale = 1:68.9



BRACING-LUMBER-

YES

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

0.0

10.0

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

Horz(CT)

0.01

22

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Weight: 321 lb

FT = 20%

n/a

except end verticals.

n/a

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 12-32, 11-33, 13-31

REACTIONS. All bearings 36-3-0.

(lb) -Max Horz 42=-236(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 42, 33, 35, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24, 22

WB

Matrix-S

0.13

except 41=-315(LC 12), 23=-139(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 32, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25,

24, 22 except 42=278(LC 12), 23=265(LC 24)

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

TOP CHORD 7-9=-90/292, 9-10=-110/351, 10-11=-133/415, 11-12=-146/448, 12-13=-146/449,

13-14=-133/415, 14-15=-110/351, 15-17=-90/293

Rep Stress Incr

Code IRC2015/TPI2014

WEBS 21-23=-189/293

NOTES-

BCLL

BCDL

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 16-11-8, Corner(3) 16-11-8 to 21-4-5, Exterior(2) 21-4-5 to 36-3-0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 42, 33, 35, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24, 22 except (jt=lb) 41=315, 23=139.



April 26,2024

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

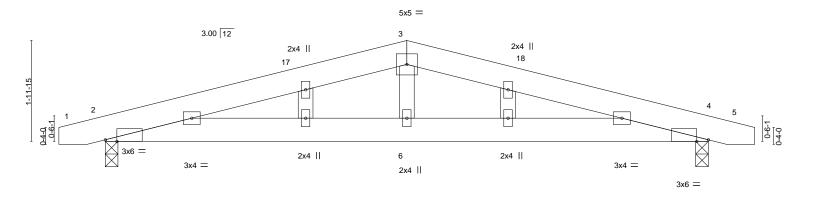
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177549 J0424-2462 B01GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:02 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 12-10-0 5-11-8 5-11-8 0-11-0

Scale = 1:22.8



<u> </u>	5-11-8 5-11-8		-	11-11-0 5-11-8		——
Plate Offsets (X,Y)	[2:0-2-12,Edge], [4:0-2-12,Edge]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.16 BC 0.21 WB 0.06 Matrix-AS	DEFL. in Vert(LL) 0.04 Vert(CT) -0.04 Horz(CT) 0.01	L/d 240 240 n/a	PLATES MT20 Weight: 65 lb	GRIP 244/190 FT = 20%

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-**BRACING-**

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

OTHERS 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-33(LC 13)

Max Uplift 2=-275(LC 8), 4=-275(LC 9)

Max Grav 2=515(LC 1), 4=515(LC 1)

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

2-3=-1085/1212, 3-4=-1085/1212 TOP CHORD **BOT CHORD** 2-6=-1122/1039, 4-6=-1122/1039

WEBS 3-6=-326/244

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph 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) -0-7-11 to 3-9-2, Interior(1) 3-9-2 to 5-11-8, Exterior(2) 5-11-8 to 10-2-8, Interior(1) 10-2-8 to 12-6-11 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=275, 4=275.
- 8) 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.



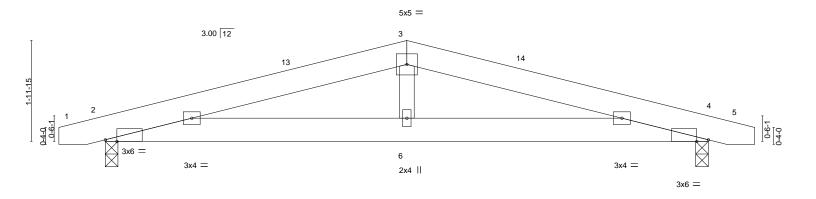
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	Lot 170 Duncans Creek	
						I65177550
J0424-2462	B02	COMMON	5	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,			8.430 s Jar	n 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:02	2024 Page 1
		ID:POC	eVkxyg?Kl	NuaGv8nie	IHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWr0	CDoi7J4zJC?f
-0-11-0	5	-11-8			11-11-0	12-10-0
0-11-0		11.8			E 11 0	0.11.0

Scale = 1:22.8



	<u> </u>	5-11-8 5-11-8					11-11-0 5-11-8		
Plate Offs	ets (X,Y)	[2:0-2-12,Edge], [4:0-2-12,Edge]							
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.02	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.04	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.04	6-12	>999	240	Weight: 63 lb	FT = 20%

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.2

> (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-20(LC 13)

Max Uplift 2=-193(LC 8), 4=-193(LC 9) Max Grav 2=515(LC 1), 4=515(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1085/1212, 3-4=-1085/1212

BOT CHORD 2-6=-1122/1039, 4-6=-1122/1039

WFBS 3-6=-326/244

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-11 to 3-9-2, Interior(1) 3-9-2 to 5-11-8, Exterior(2) 5-11-8 to 10-2-8, Interior(1) 10-2-8 to 12-6-11 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=193, 4=193.
- 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.



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

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



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177551 J0424-2462 C01GE **GABLE**

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:03 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

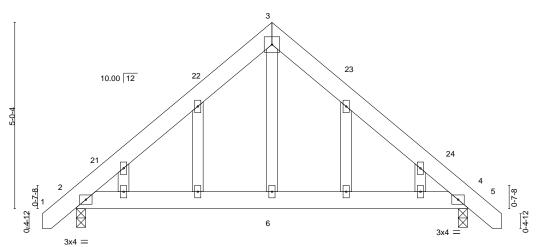
-0-11-0 0-11-0 11-5-8 10-6-8 5-3-4 5-3-4 5-3-4 0-11-0

5x5 =

Scale = 1:31.0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



	-	5-3-4 5-3-4	10-6-8 5-3-4	-
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.09 WB 0.05	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 6-20 >999 360 Vert(CT) -0.01 6-20 >999 240 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.01 6-17 >999 240	Weight: 79 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2

REACTIONS.

(size) 2=0-3-0, 4=0-3-0 Max Horz 2=152(LC 11)

Max Uplift 2=-98(LC 12), 4=-98(LC 13) Max Grav 2=469(LC 1), 4=469(LC 1)

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

TOP CHORD 2-3=-454/153, 3-4=-454/153 **BOT CHORD** 2-6=-11/315, 4-6=-11/315

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph 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) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 5-3-4, Exterior(2) 5-3-4 to 9-8-1, Interior(1) 9-8-1 to 11-4-1 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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, 4.
- 9) 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.



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

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



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177552 J0424-2462 C02 COMMON 3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:03 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 11-5-8 10-6-8 5-3-4 5-3-4 5-3-4 0-11-0 Scale = 1:31.0 5x5 = 3 15 10.00 12 16 13 5 0-4-12 6 2x4 || 3x4 =10-6-8

		ı		5-3-4		I		5-3-	4		<u>'</u>	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-AS	, ,					Weight: 69 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> 2=0-3-0, 4=0-3-0 (size) Max Horz 2=-121(LC 10) Max Uplift 2=-60(LC 9), 4=-60(LC 8) Max Grav 2=469(LC 1), 4=469(LC 1)

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

TOP CHORD 2-3=-454/440, 3-4=-454/440 **BOT CHORD** 2-6=-199/288, 4-6=-199/288

WEBS 3-6=-337/239

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 5-3-4, Exterior(2) 5-3-4 to 9-8-1, Interior(1) 9-8-1 to 11-4-1 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177553 J0424-2462 C03 COMMON Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:04 2024 Page 1

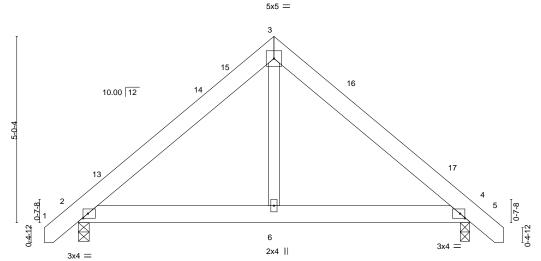
Comtech, Inc, Fayetteville, NC - 28314, ID:ypmvUrCV3TB5aOidcvN343y80e7-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

11-5-8 0-11-0 10-6-8 5-3-4 5-3-4 5-3-4 0-11-0

Scale = 1:31.0



10-6-8 [2.0 1 0 0 1 0] [4.0 1 0 0 1 0

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-1-9,0-1-8], [4:0-1-9,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.01 6-9 >999 360 MT20 244/1	90
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.02 6-9 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.00 4 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.02 6-9 >999 240 Weight: 139 lb FT	= 20%

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-0 Max Horz 2=-121(LC 10)

Max Uplift 2=-229(LC 9), 4=-94(LC 8)

Max Grav 2=1109(LC 1), 4=598(LC 1)

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

2-3=-919/897, 3-4=-683/683 TOP CHORD **BOT CHORD** 2-6=-399/476, 4-6=-399/476

WFBS 3-6=-401/299

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 5-3-4, Exterior(2) 5-3-4 to 9-8-1, Interior(1) 9-8-1 to 11-4-1 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=229.
- 8) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

Vert: 1-15=-210, 3-15=-60, 3-5=-60, 7-10=-20



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



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177554 J0424-2462 M01GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:04 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-3-8 0-11-0 5-8-0 0-7-8 Scale = 1:13.8 3x4 || 4 5 3.00 12 2x4 || 10 3x4 =2x4 || 3x4 II 2x4 || LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL -0.00 244/190 **TCLL** 1.15 TC 0.14 Vert(LL) n/r 120 MT20 **TCDL** 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) -0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr NO WB 0.06 Horz(CT) -0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 25 lb FT = 20% LUMBER-

TOP CHORD

BOT CHORD

BRACING-

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

WEBS 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS. All bearings 6-3-8. Max Horz 2=77(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 7=-116(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 9, 2, 8 except 10=289(LC 1), 7=387(LC 1)

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

WEBS 3-10=-211/348

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-7-10 to 3-8-0, Exterior(2) 3-8-0 to 5-8-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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.
- * 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except
- 10) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-5=-20, 2-8=-20, 6-7=-20 Concentrated Loads (lb)

Vert: 7=-360



Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals. Except:

6-0-0 oc bracing: 4-7

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Job Truss Truss Type Qty Lot 170 Duncans Creek 165177555 J0424-2462 M02 **ROOF SPECIAL** 5 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:05 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-8-0 6-3-8 0-7-8 0-11-0 5-8-0 Scale = 1:13.8 3x4 ∐ 3.00 12 12 10x10 =Plate Offsets (X,Y)--[2:0-2-14,0-0-6], [8:0-5-0,0-4-8] LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) -0.04 8-11 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.42 Vert(CT) -0.08 8-11 >898 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.01 Horz(CT) -0.01 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Wind(LL) >608 240 Weight: 29 lb 0.12 8-11 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 7=0-3-8

Max Horz 2=57(LC 8)

Max Uplift 2=-143(LC 8), 7=-248(LC 8) Max Grav 2=348(LC 1), 7=535(LC 1)

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

TOP CHORD 6-8=-501/693

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-10 to 3-9-2, Interior(1) 3-9-2 to 5-8-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 7=248
- 6) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 7-9=-20, 5-6=-20

Concentrated Loads (lb) Vert: 6=-360



Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals. Except:

6-0-0 oc bracing: 3-6



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Truss Type Qty 165177556 J0424-2462 V1 **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:05 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 12-9-4 6-1-4 6-8-1 Scale = 1:32.7 4x4 = 10.00 12 5 3 6 0-5-11 3x4 = 3x4 📏 12 11 10 9 8 12-9-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 999 244/190 **TCLL** 1.15 TC 0.05 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 65 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Lot 170 Duncans Creek

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

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

LUMBER-

Job

Truss

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

REACTIONS. All bearings 12-9-4. (lb) -

Max Horz 1=-125(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 12, 9, 8

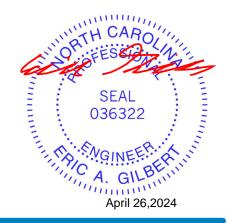
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-1-4, Interior(1) 4-1-4 to 6-1-4, Exterior(2) 6-1-4 to 10-6-0, Interior(1) 10-6-0 to 12-4-7 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 12, 9, 8.



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Job Truss Truss Type Qty Lot 170 Duncans Creek 165177557 Valley J0424-2462 V2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:06 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-5-10 5-5-10 Scale = 1:28.2 4x4 = 3 10.00 12 2x4 || 4 2x4 || 6 3x4 // 3x4 N 2x4 || 2x4 || 2x4 || 10-11-4 10-10-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL Vert(LL) 999 244/190 **TCLL** 1.15 TC 0.13 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 44 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. All bearings 10-10-6.

Max Horz 1=-101(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-132(LC 12), 6=-131(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=342(LC 19), 6=341(LC 20)

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

2-8=-339/272, 4-6=-339/272 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-5-10, Exterior(2) 5-5-10 to 9-10-7, Interior(1) 9-10-7 to 10-6-7 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, 5 except (jt=lb) 8=132, 6=131,



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

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

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Truss Type Qty 165177558 J0424-2462 V3 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:06 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 8-6-7 4-3-4 4-3-4 Scale = 1:23.1 4x4 = 2 10.00 12 3 9-0-0 9-0-0 3x4 N 3x4 // 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.22 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 32 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

Lot 170 Duncans Creek

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

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

LUMBER-

Job

Truss

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

OTHERS 2x4 SP No.2

REACTIONS.

1=8-5-9, 3=8-5-9, 4=8-5-9 (size) Max Horz 1=-77(LC 8) Max Uplift 1=-27(LC 13), 3=-34(LC 13)

Max Grav 1=179(LC 1), 3=179(LC 1), 4=261(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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.

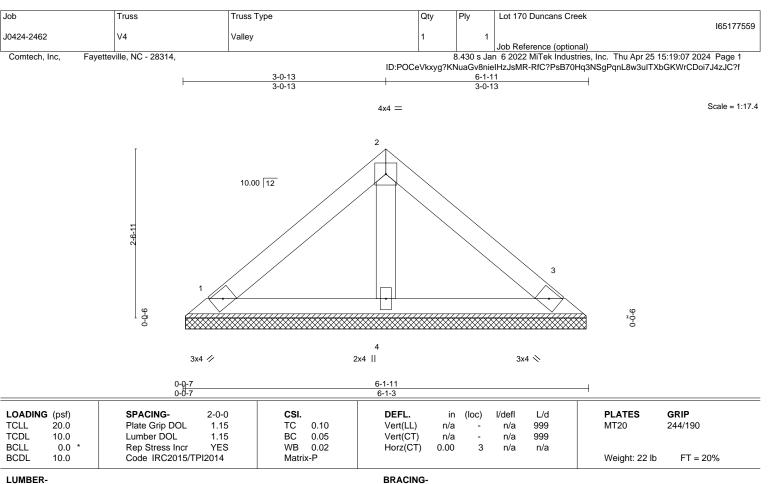


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TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=6-0-12, 3=6-0-12, 4=6-0-12 (size) Max Horz 1=-53(LC 8) Max Uplift 1=-19(LC 13), 3=-23(LC 13)

Max Grav 1=123(LC 1), 3=123(LC 1), 4=180(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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.



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

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

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Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177560 J0424-2462 V5 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:07 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-8-14 1-10-7 1-10-7 Scale = 1:10.6 4x4 = 2 10.00 12 3 9-0-0 9-0-0 4 3x4 // 2x4 || 3x4 N LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 **TCLL** 1.15 0.03 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 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 Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 13 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

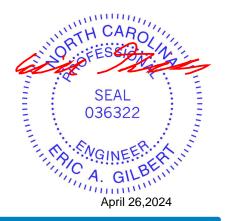
REACTIONS.

1=3-7-15, 3=3-7-15, 4=3-7-15 (size) Max Horz 1=29(LC 11) Max Uplift 1=-10(LC 13), 3=-13(LC 13) Max Grav 1=68(LC 1), 3=68(LC 1), 4=99(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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.



Structural wood sheathing directly applied or 3-8-14 oc purlins.

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



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177561 J0424-2462 V₆ **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:07 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 12-9-0 6-4-8 6-4-8 Scale = 1:33.9 4x4 = 10.00 12 3 6 13 0-5-11 0-5-11 3x4 = 9 12 11 10 8 12-9-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL Vert(LL) 999 244/190 **TCLL** 1.15 TC 0.06 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 68 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. All bearings 12-9-0. Max Horz 1=-131(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 12, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-8, Interior(1) 4-4-8 to 6-4-8, Exterior(2) 6-4-8 to 10-9-5, Interior(1) 10-9-5 to 12-9-0 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 12, 9, 8.



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

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



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

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



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177562 Valley J0424-2462 V7 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:08 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 11-5-13 5-8-15 5-8-15 Scale = 1:29.5 4x4 = 10 10.00 12 2x4 || 4 2x4 || 12 6 3x4 // 3x4 N 2x4 || 2x4 || 2x4 || 11-5-13 11-5-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.13 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 47 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. All bearings 11-4-15.

Max Horz 1=-107(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-126(LC 12), 6=-125(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=328(LC 19), 6=328(LC 20)

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

2-8=-321/254, 4-6=-321/254 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-8-15, Exterior(2) 5-8-15 to 10-1-11, Interior(1) 10-1-11 to 11-1-0 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, 5 except (jt=lb) 8=126, 6=125,



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

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



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Truss Type Qty 165177563 Valley J0424-2462 V8 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:19:08 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 4-6-8 4-6-8 Scale = 1:24.4 4x4 = 2 10.00 12 9-0-0 9-0-0 3x4 N 3x4 / 2x4 || 9-0-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.18 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 34 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

Lot 170 Duncans Creek

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

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

LUMBER-

REACTIONS.

Job

Truss

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

OTHERS 2x4 SP No.2

> 1=9-0-2, 3=9-0-2, 4=9-0-2 (size) Max Horz 1=-83(LC 8)

Max Uplift 1=-19(LC 13), 3=-27(LC 13)

Max Grav 1=177(LC 1), 3=177(LC 1), 4=309(LC 1)

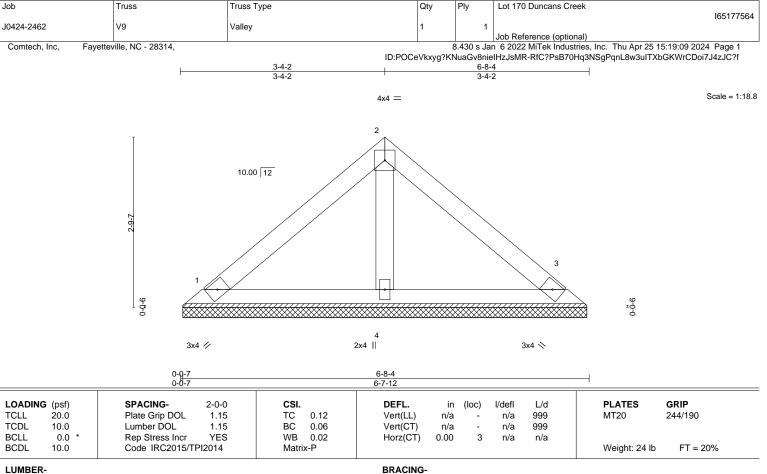
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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.







TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=6-7-5, 3=6-7-5, 4=6-7-5 (size) Max Horz 1=59(LC 9) Max Uplift 1=-21(LC 13), 3=-26(LC 13)

Max Grav 1=136(LC 1), 3=136(LC 1), 4=198(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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.



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

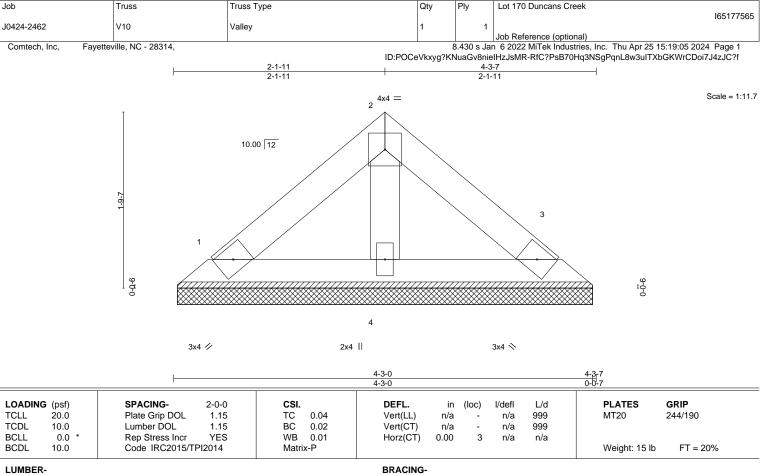
Rigid ceiling directly applied or 10-0-0 oc bracing.

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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=4-2-8, 3=4-2-8, 4=4-2-8 (size) Max Horz 1=-35(LC 8)

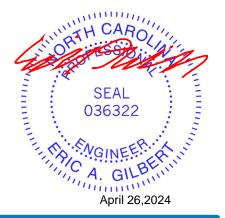
Max Uplift 1=-12(LC 13), 3=-15(LC 13)

Max Grav 1=80(LC 1), 3=80(LC 1), 4=117(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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.



Structural wood sheathing directly applied or 4-3-7 oc purlins.

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

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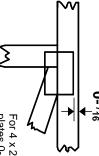


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

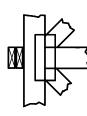
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

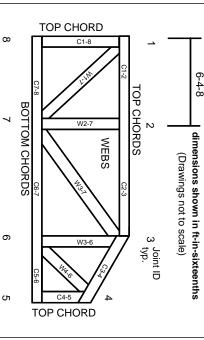
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
 The design does not take into account any dynamic

or other loads other than those expressly stated.