

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0623-2858

A&G\Lot 22 Jones 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: I59604707 thru I59604716

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



July 19,2023

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.

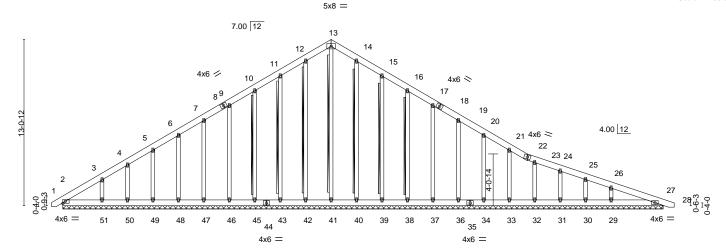
Job Truss Truss Type Qty A&G\Lot 22 Jones Creek Ply 159604707 J0623-2858 Α1 **GABLE** Job Reference (optional) Comtech, Inc,

Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:30 2023 Page 1 ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

48-0-8 21-1-0 15-5-0 10-8-0 0-10-8

Scale = 1:90.5



-0 ₁ 10 ₁ 8		48-0-8	l .			48 ₋ 11 ₋ -0
0-10-8		47-2-0	l			0-10-8
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. DEF TC 0.06 Vert BC 0.05 Vert WB 0.22 Horz Matrix-S Matrix-S Matrix-S	(LL) 0.00 28 (CT) 0.00 28	defl L/d n/r 120 n/r 120 n/a n/a	PLATES MT20 Weight: 433 lb	GRIP 244/190 FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD WEBS**

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

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

2x4 SPF No.2 - 13-41, 12-42, 11-43, 10-45 , 14-40, 15-39, 16-38

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 47-2-0.

Max Horz 2=-402(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 27, 42, 43, 45, 46, 47, 48, 49, 50, 40, 39, 38, 37, 36, 34, 33,

32, 31, 30 except 2=-101(LC 8), 51=-148(LC 12), 29=-114(LC 13)

All reactions 250 lb or less at joint(s) 2, 27, 42, 43, 45, 46, 47, 48, 49, 50, 40, 39, 38, 37, 36, Max Grav 34, 33, 32, 31, 30 except 41=257(LC 13), 51=280(LC 19), 29=324(LC 24)

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

TOP CHORD 2-3=-371/318, 3-4=-259/261, 9-10=-149/264, 10-11=-200/301, 11-12=-256/358, 12-13=-282/387, 13-14=-282/387, 14-15=-256/358, 15-16=-200/290

2-51=-125/267, 50-51=-125/267, 49-50=-125/267, 48-49=-125/267, 47-48=-125/267,

46-47=-125/267, 45-46=-125/267, 43-45=-125/267, 42-43=-125/267, 41-42=-125/267,

40-41=-125/267, 39-40=-125/267, 38-39=-125/267, 37-38=-125/267, 36-37=-125/267,

34-36=-125/267, 33-34=-125/267, 32-33=-125/267, 31-32=-125/267, 30-31=-125/267,

29-30=-125/267, 27-29=-125/267

13-41=-253/118, 26-29=-229/261

WEBS NOTES-

BOT CHORD

- 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) -0-8-8 to 4-0-2, Exterior(2) 4-0-2 to 21-1-0, Corner(3) 21-1-0 to 25-9-10, Exterior(2) 25-9-10 to 47-9-13 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.
- 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) 27, 42, 43, 45, 46, 47, 48, 49, 50, 40, 39, 38, 37, 36, 34, 33, 32, 31, 30 except (jt=lb) 2=101, 51=148, 29=114.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

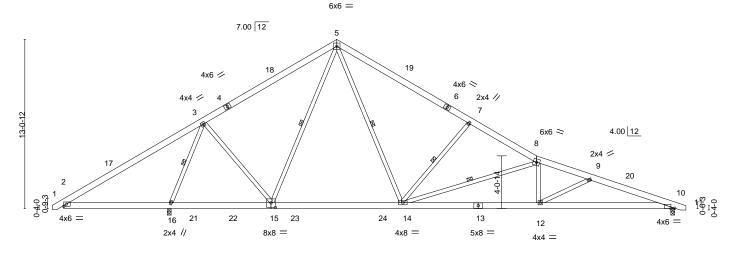
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job Truss Truss Type Qty Ply A&G\Lot 22 Jones Creek 159604708 J0623-2858 A2 **ROOF SPECIAL** 6 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:32 2023 Page 1

ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 48-0₋8 0-10-8 31-3-6 36-6-0 40-6-12 47-2-0 10-2-6 10-2-6 5-2-10 4-0-12 6-7-4

Scale = 1:88.9



1	8-1-12	8-3-8	16-1-0	26-1-0	35-8-0	36-6 _ī 0	47-2-0	1
	8-1-12	0-1 [!] -12	7-9-8	10-0-0	9-7-0	0-10-0	10-8-0	
Plate Offsets (X,Y)	[10:0-3-7,Edge],	15:0-4-0,0-4-	-8]					

	[:::: : :,==g=j, [:::: : :,= : :]			
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 0.60	Vert(LL) -0.22 14-15 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.36 14-15 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.07 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12 12-14 >999 240	Weight: 341 lb FT = 20%

LUMBER-

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

-0-10-8 0-10-8

10-10-10

BRACING-TOP CHORD

WEBS

BOT CHORD

Structural wood sheathing directly applied or 3-9-10 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

3-16, 5-15, 5-14, 7-14, 8-14

6-0-0 oc bracing: 2-16.

1 Row at midpt

REACTIONS. (size) 16=0-3-8, 10=0-3-8

Max Horz 16=-311(LC 10)

Max Uplift 16=-128(LC 12), 10=-131(LC 13) Max Grav 16=2366(LC 2), 10=1523(LC 1)

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

TOP CHORD 2-3=-532/857, 3-5=-1219/232, 5-7=-1900/410, 7-8=-2091/389, 8-9=-3332/489,

9-10=-3718/642

BOT CHORD 2-16=-587/556, 15-16=-62/568, 14-15=0/1108, 12-14=-313/3099, 10-12=-526/3469 WEBS 3-16=-2290/751, 3-15=-61/956, 5-15=-478/214, 5-14=-214/1355, 7-14=-599/333,

8-14=-1478/194, 8-12=0/490, 9-12=-405/240

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) -0-8-8 to 4-0-2, Interior(1) 4-0-2 to 21-1-0, Exterior(2) 21-1-0 to 25-9-10, Interior(1) 25-9-10 to 47-9-13 zone; cantilever 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 100 lb uplift at joint(s) except (jt=lb)
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





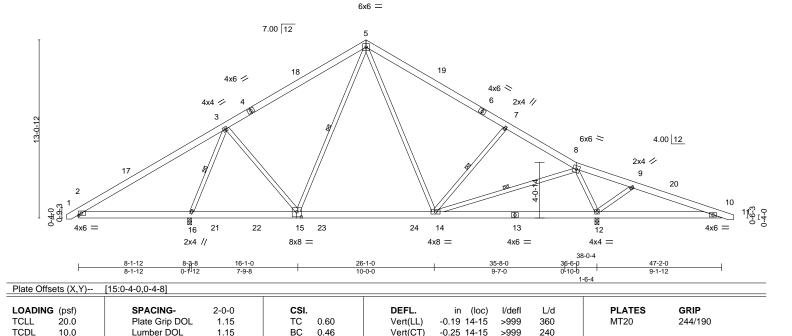
Job Truss Truss Type Qty A&G\Lot 22 Jones Creek 159604709 J0623-2858 **A3 ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:33 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

10-10-10 10-10-10

ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-1-0 10-2-6 31-3-6 10-2-6 40-6-12 47-2-0 6-7-4 4-0-12

Scale = 1:84.5



LUMBER-

BCLL

BCDL

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

0.0

10.0

Wind(LL) BRACING-

Horz(CT)

0.01

-0.05 12-14

12

n/a

>999

TOP CHORD BOT CHORD WEBS

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

Weight: 339 lb

Rigid ceiling directly applied or 6-0-0 oc bracing. 3-16, 5-15, 7-14, 8-14 1 Row at midpt

n/a

240

REACTIONS. (size) 16=0-3-8, 12=0-3-8

Max Horz 16=-311(LC 10)

Max Uplift 16=-136(LC 12), 12=-169(LC 13) Max Grav 16=1929(LC 2), 12=1986(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-3=-534/859, 3-5=-841/173, 5-7=-1049/166, 7-8=-1249/140, 8-9=-970/1204,

YES

WB

Matrix-S

0.42

9-10=-824/859

BOT CHORD 2-16=-589/558, 15-16=-65/406, 14-15=0/684, 12-14=-534/824, 10-12=-744/826 WEBS 3-16=-1848/627, 3-15=-1/697, 5-14=-36/474, 7-14=-578/329, 8-14=-685/1397,

9-12=-480/306, 8-12=-1569/624

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) -0-8-8 to 4-0-2, Interior(1) 4-0-2 to 21-1-0, Exterior(2) 21-1-0 to 25-9-10, Interior(1) 25-9-10 to 47-9-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



FT = 20%

July 19,2023

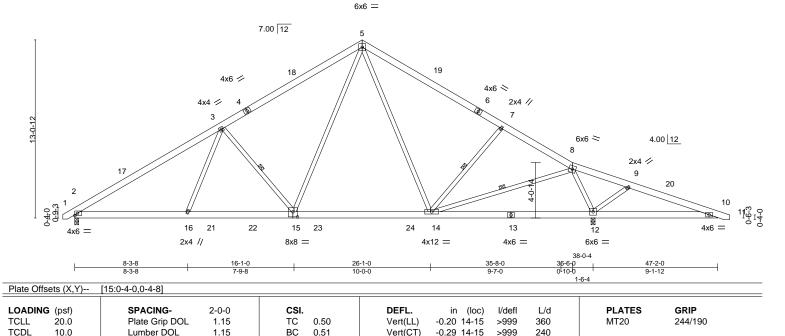


Job Truss Truss Type Qty A&G\Lot 22 Jones Creek 159604710 J0623-2858 A4 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:35 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 10-10-10 10-10-10 31-3-6 10-2-6 40-6-12 47-2-0 6-7-4 21-1-0 10-2-6 4-0-12

Scale = 1:84.5



Horz(CT)

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

0.04

0.05 2-16

12

n/a

>999

1 Row at midpt

n/a

240

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

Structural wood sheathing directly applied or 4-5-14 oc purlins.

3-15, 7-14, 8-14

Weight: 339 lb

FT = 20%

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

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

Max Horz 2=-311(LC 10) Max Uplift 2=-108(LC 12), 12=-168(LC 13) Max Grav 2=1634(LC 19), 12=2383(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-3=-2544/326, 3-5=-1938/401, 5-7=-1629/251, 7-8=-1829/232, 8-9=-969/1202,

YES

WB

Matrix-S

0.55

9-10=-823/857

BOT CHORD 2-16=-154/2264, 15-16=-184/2166, 14-15=0/1256, 12-14=-438/782, 10-12=-742/825 WEBS 3-16=0/367, 3-15=-810/339, 5-15=-173/1118, 5-14=-49/360, 7-14=-574/327,

8-14=-765/1730, 9-12=-479/305, 8-12=-2000/728

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) -0-8-8 to 4-0-2, Interior(1) 4-0-2 to 21-1-0, Exterior(2) 21-1-0 to 25-9-10, Interior(1) 25-9-10 to 47-9-13 zone; cantilever 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, 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

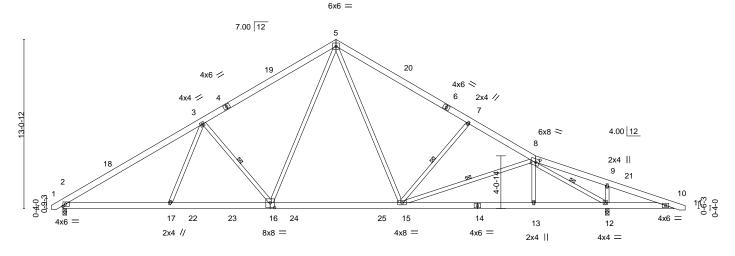




Job Truss Truss Type Qty Ply A&G\Lot 22 Jones Creek 159604711 J0623-2858 A5 **ROOF SPECIAL** 5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:36 2023 Page 1

ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 40-6-12 42-0-4 4-0-12 1-5-8 47-2-0 48-0₁8 0-10-8 31-3-6 -0-10-8 0-10-8 10-10-10 10-2-6 10-2-6 5-2-10 5-1-12

Scale = 1:88.9



1	8-3-8	16-1-0	26-1-0	35-8-0	36-6 ₇ 0	42-0-4	47-2-0
Г	8-3-8	7-9-8	10-0-0	9-7-0	0 ⁻¹ 10 ⁻¹ 0	5-6-4	5-1-12
Plate Offsets (X,Y)	[8:0-3-4.0-3-0], [16:0-4-0	.0-4-81					

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 0.50	Vert(LL) -0.22 15-16 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.35 15-16 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.07 12 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 15-16 >999 240	Weight: 345 lb FT = 20%

LUMBER-

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

WEBS

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-1-12 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

3-16, 7-15, 8-15, 8-12

6-0-0 oc bracing: 10-12. 1 Row at midpt

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

Max Horz 2=-311(LC 10)

Max Uplift 2=-107(LC 12), 12=-152(LC 13) Max Grav 2=1845(LC 19), 12=2156(LC 1)

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

TOP CHORD 2-3=-2944/462, 3-5=-2340/534, 5-7=-2249/487, 7-8=-2440/469, 8-9=-456/479,

9-10=-553/528

BOT CHORD 2-17=-231/2604, 16-17=-258/2506, 15-16=0/1608, 13-15=-88/2118, 12-13=-94/2115,

10-12=-434/566

WEBS 3-17=0/364, 3-16=-800/338, 5-16=-158/1105, 5-15=-93/895, 7-15=-597/330,

9-12=-452/245, 8-12=-2785/657, 8-13=0/285

- 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) -0-8-8 to 4-0-2, Interior(1) 4-0-2 to 21-1-0, Exterior(2) 21-1-0 to 25-9-10, Interior(1) 25-9-10 to 47-9-13 zone; cantilever 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, 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) 2=107, 12=152.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty A&G\Lot 22 Jones Creek 159604712 COMMON J0623-2858 A6 10 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:37 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 10-10-10 10-10-10 42-2-0 10-10-10 21-1-0 10-2-6 -0<u>-10-8</u> 0-10-8 Scale = 1:85.0 5x8 || 7.00 12 5 4x8 / 4x8 <> 6 4x6 < 2x4 \\ 0-9-3 21 15 22 20 14 13 23 1224 10 25 26 9 27 4x6 = 4x6 =4x4 = 4x8 = 4x4 = 4x4 = 4x4 = 4x8 =4x4 = 2x4 \\ 4x4 =23-8-6 14-1-0 1-10-11 23-7-12 1-6-12 0-0-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl 20.0 1.15 Vert(LL) -0.17 2-15 360 244/190 **TCLL** Plate Grip DOL TC 0.54 >999 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

WEBS

BOT CHORD

-0.32

0.02

0.07

2-15

2-15

8

>883

>999

n/a

6-0-0 oc bracing: 11-15.

1 Row at midpt

2 Rows at 1/3 pts

240

n/a

240

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

5-15, 7-11

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

Weight: 308 lb

FT = 20%

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

12-14: 2x6 SP No.1

(size) 2=0-3-8, 11=0-3-8, 8=Mechanical

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Horz 2=304(LC 9) Max Uplift 2=-46(LC 12), 8=-86(LC 13)

Max Grav 2=1004(LC 19), 11=2640(LC 19), 8=599(LC 20)

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

2-3=-1173/158, 3-5=-1147/351, 5-7=0/587, 7-8=-609/174 TOP CHORD **BOT CHORD** 2-15=-117/1122, 11-15=-311/214, 9-11=-16/354, 8-9=0/404

3-15=-744/413, 5-15=-192/1707, 5-11=-1619/159, 7-11=-1077/347, 7-9=0/523 WFBS

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) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 21-1-0, Exterior(2) 21-1-0 to 25-5-13, Interior(1) 25-5-13 to 42-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

Matrix-S

0.68

0.86

3) 200.0lb AC unit load placed on the bottom chord, 18-0-0 from left end, supported at two points, 5-0-0 apart.

1.15

YES

- 4) 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building





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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



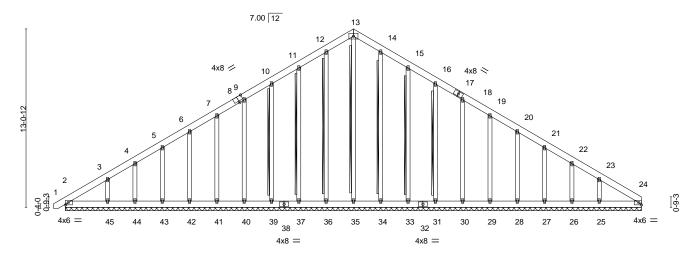
Job Truss Truss Type Qty A&G\Lot 22 Jones Creek 159604713 J0623-2858 A7 **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:39 2023 Page 1

5x8 =

ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0₋10₋8 0-10-8 21-1-0 21-1-0

Scale = 1:84.4



-0 _r 10 _r 8	14-11-8	22-11-8	43-0-8	1
0 ⁻ 10 ⁻ 8	14-1-0	8-0-0	20-1-0	
Plate Offsets (X Y) [8:0-4-0 Edg	ها			

Flate OII	Sets (A, I)	[0.0-4-0,Euge]										
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	0.06	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	0.19	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 403 lb	FT = 20%

LUMBER-TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 **OTHERS** 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD WEBS**

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

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

2x4 SPF No.2 - 13-35, 12-36, 11-37, 10-39 , 14-34, 15-33, 16-31

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 42-2-0.

Max Horz 2=379(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 36, 37, 39, 40, 41, 42, 43,

44, 34, 33, 31, 30, 29, 28, 27, 26 except 45=-148(LC 12), 25=-146(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29, 28, 27, 26 except 45=278(LC 19), 25=279(LC 20)

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

TOP CHORD 2-3=-377/299, 3-4=-281/243, 10-11=-221/284, 11-12=-278/325, 12-13=-302/343,

13-14=-302/343, 14-15=-278/310, 23-24=-283/186

BOT CHORD 2-45=-173/272, 44-45=-173/272, 43-44=-173/272, 42-43=-173/272, 41-42=-173/272,

40-41=-173/272, 39-40=-173/272, 37-39=-173/272, 36-37=-173/272, 35-36=-173/272, 34-35=-173/272, 33-34=-173/272, 31-33=-173/272, 30-31=-173/272, 29-30=-173/272, 28-29=-173/272, 27-28=-173/272, 26-27=-173/272, 25-26=-173/272, 24-25=-173/272

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) -0-8-8 to 3-8-5, Exterior(2) 3-8-5 to 21-1-0, Corner(3) 21-1-0 to 25-5-13, Exterior(2) 25-5-13 to 42-2-0 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) 2, 24, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29, 28, 27, 26 except (jt=lb) 45=148, 25=146.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



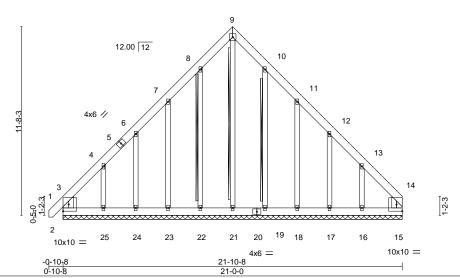
Job Truss Truss Type Qty Ply A&G\Lot 22 Jones Creek 159604714 J0623-2858 **B1 GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:41 2023 Page 1 ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10₇8 0-10-8 21-10-8 10-6-0 10-6-0

> Scale = 1:71.3 5x5 =



LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.08	DEFL. Vert(LL) -0.1 Vert(CT) 0.1	l/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.19 Matrix-S	Horz(CT) 0.0	n/a	n/a	Weight: 211 lb	FT = 20%

LUMBER-TOP CHORD 2x6 SP No.1

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

SLIDER Left 2x4 SP No.2 0-6-10, Right 2x4 SP No.2 0-6-10 BRACING-TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 9-21, 8-22, 10-19

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 21-0-0.

Max Horz 2=339(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at ioint(s) 15, 2, 21, 22, 19, 17 except 23=-159(LC 12), 24=-119(LC 12),

25=-231(LC 12), 18=-169(LC 13), 16=-334(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 19, 18, 17 except 15=309(LC 13), 2=276(LC 21), 21=307(LC 13), 16=266(LC 20)

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

TOP CHORD 2-3=-373/247, 3-4=-376/282, 8-9=-261/285, 9-10=-261/279, 13-14=-326/202,

14-15=-269/128 2-25=-186/284, 24-25=-178/278, 23-24=-178/278, 22-23=-179/279, 21-22=-179/279,

19-21=-179/279, 18-19=-179/278, 17-18=-178/278, 16-17=-178/278, 15-16=-177/276

WEBS 9-21=-284/204, 13-16=-267/276

NOTES-

BOT CHORD

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 10-6-0, Corner(3) 10-6-0 to 14-10-13, Exterior(2) 14-10-13 to 20-8-2 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) 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.
- * 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) 15, 2, 21, 22, 19, 17 except (jt=lb) 23=159, 24=119, 25=231, 18=169, 16=334. 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job Truss Truss Type Qty A&G\Lot 22 Jones Creek 159604715 J0623-2858 B2 COMMON 2

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:42 2023 Page 1

ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10₇8 0-10-8 5-3-13 5-3-13 15-8-3 21-0-0 5-2-3 5-2-3 5-3-13

> Scale = 1:71.6 4x6 =

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

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

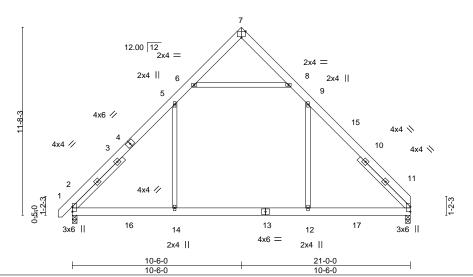


Plate Olls	sels (X,Y)	[7:0-3-0,Euge]			
LOADING	3 (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.10 12-14 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.13 12-14 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.01 11 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.13 2-14 >999 240	Weight: 165 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

SLIDER Left 2x4 SP No.2 4-5-5, Right 2x4 SP No.2 4-5-5

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=269(LC 9)

Max Uplift 11=-31(LC 12), 2=-34(LC 12) Max Grav 11=1079(LC 19), 2=1111(LC 19)

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

TOP CHORD 2-5=-1367/217, 5-6=-735/273, 8-9=-734/277, 9-11=-1364/214

BOT CHORD 2-14=-7/853, 12-14=-6/854, 11-12=-6/853 **WEBS** 5-14=-5/590, 9-12=-4/589, 6-8=-819/381

- 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 10-6-0, Exterior(2) 10-6-0 to 14-7-15, Interior(1) 14-7-15 to 21-0-0 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.
- * 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) 11, 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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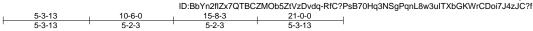
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply A&G\Lot 22 Jones Creek 159604716 COMMON GIRDER J0623-2858 **B**3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:44 2023 Page 1



Scale = 1:71.1 5x5 ||

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

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

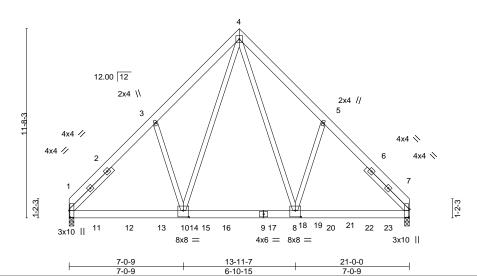


Plate Offsets (X,Y)-- [1:0-5-0,0-0-8], [7:0-5-15,0-0-8], [8:0-4-0,0-4-12], [10:0-4-0,0-4-12]

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 0.15	Vert(LL) -	-0.07 7-8	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -	-0.13 7-8	>999	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.29	Horz(CT)	0.02 7	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 7-8	>999	240	Weight: 364 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Left 2x4 SP No.2 3-8-12, Right 2x4 SP No.2 3-8-12 SLIDER

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=267(LC 24)

Max Uplift 1=-518(LC 9), 7=-528(LC 8) Max Grav 1=3587(LC 1), 7=3642(LC 1)

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

TOP CHORD $1-3=-3722/586,\ 3-4=-3492/698,\ 4-5=-3495/699,\ 5-7=-3724/586$

BOT CHORD 1-10=-425/2472, 8-10=-248/1747, 7-8=-322/2448

WEBS 4-8=-520/2349, 5-8=-287/366, 4-10=-518/2341, 3-10=-287/367

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); 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.
- 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 100 lb uplift at joint(s) except (jt=lb) 1=518, 7=528,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 555 lb down and 106 lb up at 1-7-4, 555 lb down and 106 lb up at 3-7-4, 555 lb down and 106 lb up at 5-7-4, 555 lb down and 106 lb up at 7-7-4, 555 lb down and 106 lb up at 9-7-4, 555 lb down and 106 lb up at 11-7-4, 555 lb down and 106 lb up at 13-7-4, 555 lb down and 106 lb up at 15-7-4, and 555 lb down and 106 lb up at 17-7-4, and 555 lb down and 106 lb up at 19-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

July 19,2023

Continued on page 2

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Qty Job Truss Truss Type Ply A&G\Lot 22 Jones Creek 159604716 **COMMON GIRDER** J0623-2858 ВЗ

Comtech, Inc, Fayetteville, NC - 28314,

Z Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 14:12:44 2023 Page 2 ID:BbYn2flZx7QTBCZMOb5ZtVzDvdq-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 11=-555(F) 12=-555(F) 13=-555(F) 14=-555(F) 16=-555(F) 17=-555(F) 19=-555(F) 21=-555(F) 22=-555(F) 23=-555(F)



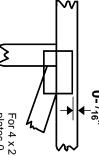
818 Soundside Road Edenton, NC 27932

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- $\frac{1}{16}$ from outside edge of truss.

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

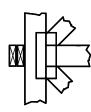
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



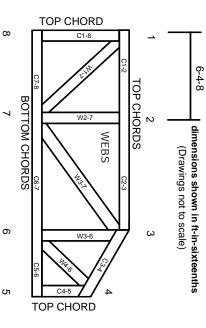
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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 Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- 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.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.