

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0921-5307

Weaver/Lot 8 West Park/Harnett

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: E16163106 thru E16163121

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



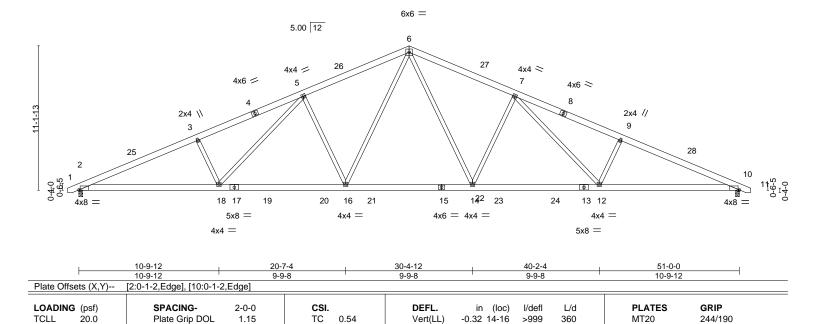
September 14,2021

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job		Truss		Truss Type			Qty	Ply	Weaver/Lot 8 West Park/	Harnett	
										E16163106	
J0921-5307		A1		COMMON			1	1			
									Job Reference (optional)		
Comtech, Inc, Fayetteville, NC - 28314,		4,				8.4	130 s Aug	16 2021 MiTek Industries, I	nc. Mon Sep 13 14:07:	23 2021 Page 1	
•					ID:OVkgz	kCZiFyccl	xPk0HiY	oztgE1-EWHkECieO68K6z7	UHwmshRzmXcZBTM	wx_NE6ZAye0ol	
$-0_{\Gamma}10_{\Gamma}8$ 9-2-3		17-4-	17-4-2 25-6-0			33-7-14		41-9-13	51-0-0	51 ₋ 10-8	
0-10-8 9-2-3		8-1-1	3-1-14 8-1-14		-	8-1-14		8-1-14	9-2-3	0-10-8	

Scale = 1:89.0



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

-0.57 14-16

10

16 >999

0.17

0.16

>999

n/a

240

n/a

240

Rigid ceiling directly applied or 9-5-5 oc bracing.

Structural wood sheathing directly applied or 3-0-14 oc purlins.

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

2x4 SP No.2 WFBS

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=131(LC 12)

Max Uplift 2=-140(LC 12), 10=-140(LC 13) Max Grav 2=2151(LC 2), 10=2151(LC 2)

Lumber DOL

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=-4699/875, 3-5=-4532/906, 5-6=-3592/789, 6-7=-3592/789, 7-9=-4532/906,

9-10=-4699/875 **BOT CHORD**

2-18=-684/4262, 16-18=-480/3547, 14-16=-266/2708, 12-14=-488/3547, 10-12=-677/4262 3-18=-468/269, 5-18=-163/881, 5-16=-857/331, 6-16=-206/1284, 6-14=-206/1284,**WEBS**

1.15

YES

7-14=-857/331, 7-12=-163/881, 9-12=-468/269

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) -0-8-2 to 4-5-1, Interior(1) 4-5-1 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-S

0.71

0.93

- 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=140, 10=140.



Weight: 349 lb

FT = 20%

September 14,2021

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/TPI 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 Weaver/Lot 8 West Park/Harnett E16163107 J0921-5307 A1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:25 2021 Page 1 Comtech, Inc.

Scale = 1:89.2

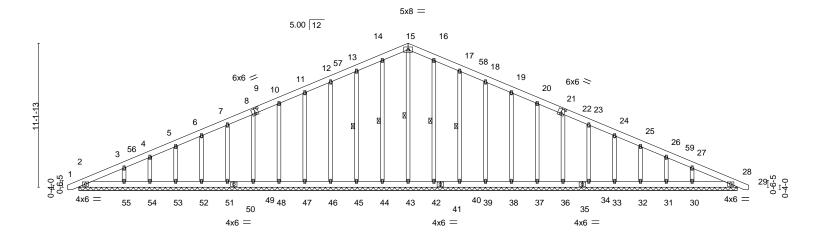


Plate Offse	ets (X,Y)	[9:0-3-0,0-4-4], [21:0-3-0	,0-4-4]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	28	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	29	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 440 lb	FT = 20%

51-0-0 51-0-0

LUMBER-

-0₋10₋8 0-10-8

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

2x4 SP No.2 OTHERS

BRACING-TOP CHORD

BOT CHORD WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt 15-43, 14-44, 13-45, 16-42, 17-40

ID:OVkgzkCZiFyccLxPk0HiYpztgE1-AvOVftjvwjO1LHHsOLoKms2EVPP8xSpESgjDe3ye0oG

51-0-0

25-6-0

REACTIONS. All bearings 51-0-0.

Max Horz 2=221(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 42, 40, 39, 38,

37, 36, 34, 33, 32, 31 except 55=-108(LC 12), 30=-107(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 28, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 42, 40,

39, 38, 37, 36, 34, 33, 32, 31 except 55=274(LC 23), 30=274(LC 24)

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

TOP CHORD 2-3=-271/105, 10-11=-83/255, 11-12=-100/302, 12-13=-116/349, 13-14=-134/400,

25-6-0

25-6-0

14-15=-145/429, 15-16=-145/431, 16-17=-134/402, 17-18=-116/351, 18-19=-100/304,

19-20=-83/257

WEBS 3-55=-194/258, 27-30=-194/258

- 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) -0-8-2 to 4-5-1, Exterior(2) 4-5-1 to 25-6-0, Corner(3) 25-6-0 to 30-7-3, Exterior(2) 30-7-3 to 51-8-2 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.
- 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, 28, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 42, 40, 39, 38, 37, 36, 34, 33, 32, 31 except (jt=lb) 55=108, 30=107.



September 14,2021

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



1000		1.1400 1,700	, ~ .,	,	Trouver, Early Turnett
					E16163108
J0921-5307	A2	COMMON	4	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.4	30 s Aug	16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:27 2021 Page 1
•		liYpztgE1-6HWF4Zl9SLelabQFWmrosH8P_DtePAzXv_CKixye0oE			

Qtv

Plv

Weaver/Lot 8 West Park/Harnett

Structural wood sheathing directly applied or 2-2-0 oc purlins.

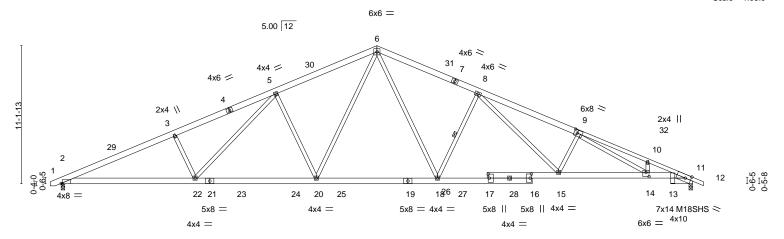
8-18

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

41-9-13 8-1-14

Scale = 1:93.0



		10-9-12 10-9-12	20-7-4 9-9-8			0-4-12 9-9-8	38-0-8 7-7-12		40-2-4 2-1-12	47-2-12 7-0-8	49-2-12 5	
Plate Offs	sets (X,Y)	[2:0-1-2,Edge], [9:0-3-0,	0-3-0], [11:0-5-6	6,Edge], [14:0	0-3-0,0-4-0],	16:0-4-0,0-1-4], [17:0-3-14,0-1-1]				
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLAT	ES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.40 18-20	>999	360	MT20)	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.73 18-20	>831	240	M18S	SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.23 11	n/a	n/a			
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	:-S	Wind(LL)	0.21 18-20	>999	240	Weigl	ht: 360 lb	FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

LUMBER-

Job

-0<u>-10-8</u> 0-10-8

TOP CHORD 2x6 SP No.1 *Except* 9-12: 2x4 SP No.1

2x6 SP No.1 *Except* **BOT CHORD** 11-17: 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2

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

Max Horz 2=131(LC 12)

Truss

Truss Type

Max Uplift 2=-140(LC 12), 11=-143(LC 13) Max Grav 2=2147(LC 2), 11=2153(LC 2)

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

TOP CHORD 2-3=-4687/874, 3-5=-4520/906, 5-6=-3591/790, 6-8=-3553/787, 8-9=-4983/963,

9-10=-5767/1124, 10-11=-5932/1059 2-22=-684/4251, 20-22=-479/3544, 18-20=-265/2692, 15-18=-501/3597, 14-15=-733/4746,

BOT CHORD 11-14=-888/5330

3-22=-469/269, 5-22=-161/875, 5-20=-854/330, 6-20=-211/1311, 6-18=-203/1239, 8-18=-1019/367, 8-15=-224/1364, 9-15=-608/246, 9-14=-194/790

NOTES-

WEBS

- 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) -0-8-2 to 4-5-1, Interior(1) 4-5-1 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=140, 11=143.



September 14,2021

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/TPI 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 Weaver/Lot 8 West Park/Harnett E16163109 J0921-5307 COMMON 4 A3 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:29 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-3ge?VFmPzyuTquaedBtGxiDoH1dvt4NqNlhRnqye0oC

33-7-14

8-1-14

41-9-13

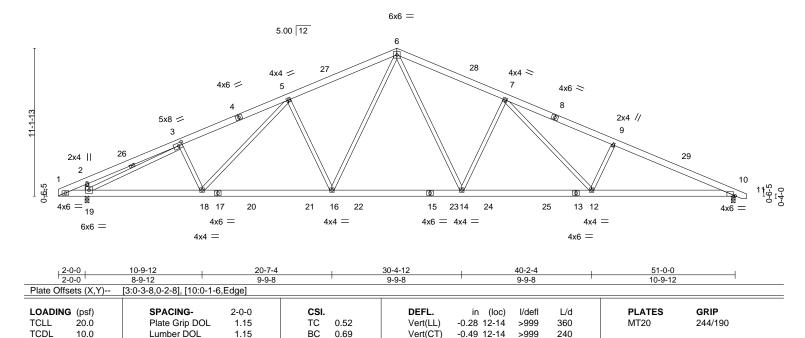
8-1-14

25-6-0 8-1-14

Scale = 1:86.8

51-0-0

9-2-3



Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WFBS

0.15

0.13 12-14

10

n/a

>999

1 Row at midpt

n/a

240

Rigid ceiling directly applied or 9-9-4 oc bracing.

Structural wood sheathing directly applied or 3-2-0 oc purlins.

3-19

Weight: 359 lb

FT = 20%

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

WFBS 2x4 SP No.2

> 10=0-3-8, 19=0-3-8 (size) Max Horz 19=-134(LC 17)

Max Uplift 10=-140(LC 13), 19=-135(LC 12) Max Grav 10=2064(LC 2), 19=2206(LC 2)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 1-2=-595/7, 2-3=-742/136, 3-5=-3635/712, 5-6=-3273/723, 6-7=-3369/746,

7-9=-4314/864. 9-10=-4481/833 BOT CHORD 1-19=-4/606, 18-19=-464/3269, 16-18=-406/3152, 14-16=-223/2502, 12-14=-445/3342,

10-12=-638/4062

YES

17-4-2

8-1-14

WEBS 5-18=-50/329, 5-16=-653/290, 6-16=-164/1085, 6-14=-207/1282, 7-14=-859/332,

7-12=-164/885, 9-12=-470/269, 2-19=-505/301, 3-19=-3043/546

- 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 5-1-3, Interior(1) 5-1-3 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-8-2 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

0.93

- 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) 10=140, 19=135.



September 14,2021



Job Truss Truss Type Qty Ply Weaver/Lot 8 West Park/Harnett E16163110 J0921-5307 COMMON 5 A4 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:30 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-XsCOibn1kG0KS29qBuOVTvm_hQzYcXgzbyR_JGye0oB

33-7-14

8-1-14

41-9-13

8-1-14

25-6-0

2-8-12

22-9-4

8-3-8

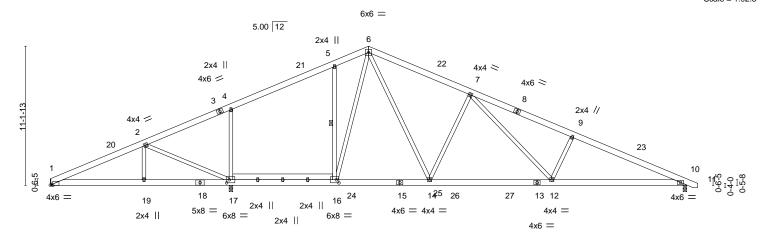
22-0-4

6-11-10

Scale = 1:92.3

51-10-8 0-10-8

51-0-0



1	7-0	-2 14-4-0	'	22-3-4	1	30-4-12	1 40	-2-4	1	31-0-0	
ſ	7-6	-2 ¹ 6-9-14		8-5-4	1	7-7-8	9-	9-8		10-9-12	
Plate Offse	ets (X,Y)	[1:0-2-6,Edge], [16:0-2-8	,0-3-0], [17:0	-2-8,0-3-0]							
										_	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.27 12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.46 12-14	>958	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.12 10	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix	k-S	Wind(LL)	0.11 14-16	>999	240	Weight: 370 lb	FT = 20%

30-4-12

LUMBER-

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

7-6-2

BRACING-

TOP CHORD **BOT CHORD** WFBS

10-2-4

Structural wood sheathing directly applied or 3-5-1 oc purlins.

51-0-0

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-16

REACTIONS.

10=0-3-8, 1=Mechanical, 17=0-3-8 (size)

Max Horz 1=-134(LC 17)

Max Uplift 10=-138(LC 13), 1=-6(LC 12), 17=-171(LC 12) Max Grav 10=1863(LC 2), 1=1340(LC 2), 17=1167(LC 2)

1/1-/1-0

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

TOP CHORD 1-2=-2811/425, 2-4=-2378/348, 4-5=-2444/484, 5-6=-2327/575, 6-7=-2848/610,

7-9=-3812/724, 9-10=-3980/692

BOT CHORD 1-19=-293/2533, 17-19=-293/2533, 16-17=-111/2155, 14-16=-88/2032, 12-14=-319/2865,

10-12=-509/3601

WEBS 2-19=0/258, 6-16=-128/582, 6-14=-228/1245, 7-14=-856/332, 7-12=-159/892,

 $9\hbox{-}12\hbox{-}-475/270,\ 4\hbox{-}17\hbox{-}-581/266,\ 2\hbox{-}17\hbox{-}-637/213,\ 5\hbox{-}16\hbox{-}-286/232$

- 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) 0-1-4 to 5-2-7, Interior(1) 5-2-7 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-8-2 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=138, 17=171.



September 14,2021



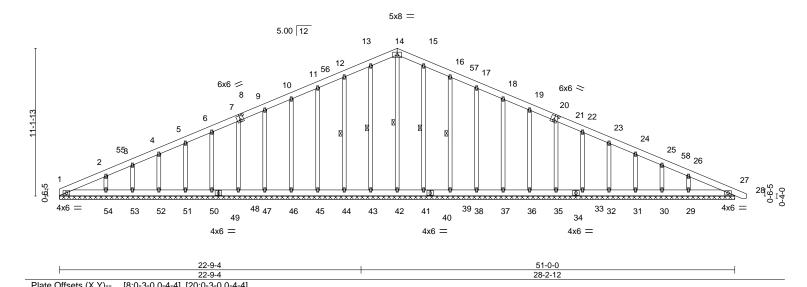
Qty E16163111 J0921-5307 A4GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:32 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-TFK87HpIGtH2hMJDJJRzZKrRkEon4cYG3Gw5O9ye0o9 22-9-4 25-6-0 51-0-0

2-8-12

Ply

Weaver/Lot 8 West Park/Harnett

Scale = 1:87.0



T late One	010 (71, 1)	[0.0 0 0,0 1 1], [20.0 0 0,0 1 1]							
LOADING	i (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) 0.0	00 27	n/r 1	20	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.0	00 28	n/r 1	20		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.0	01 27	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 438 lb	FT = 20%

LUMBER-

Job

Truss

14-5-12

Truss Type

8-3-8

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

2x4 SP No.2 OTHERS

BRACING-TOP CHORD

BOT CHORD WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt 14-42, 13-43, 12-44, 15-41, 16-39

REACTIONS. All bearings 51-0-0.

Max Horz 1=-225(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 27, 1, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 41, 39, 38, 37,

36, 35, 33, 32, 31, 30 except 54=-112(LC 12), 29=-107(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 27, 1, 42, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 41, 39, 38, 37, 36, 35, 33, 32, 31, 30 except 54=282(LC 23), 29=274(LC 24)

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

1-2=-273/105, 9-10=-83/256, 10-11=-100/302, 11-12=-116/350, 12-13=-134/400, TOP CHORD

13-14=-145/430, 14-15=-145/431, 15-16=-134/402, 16-17=-116/351, 17-18=-100/304,

18-19=-83/257

WEBS 2-54=-202/281, 26-29=-194/258

- 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) 0-0-0 to 5-1-3, Exterior(2) 5-1-3 to 25-6-0, Corner(3) 25-6-0 to 30-7-3, Exterior(2) 30-7-3 to 51-8-2 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.
- 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, 1, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 41, 39, 38, 37, 36, 35, 33, 32, 31, 30 except (jt=lb) 54=112, 29=107.



September 14,2021

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/TPI 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 Weaver/Lot 8 West Park/Harnett E16163112 J0921-5307 COMMON SUPPORTED GAB В1 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:33 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-xRtWKcqw1BPvJWuPs1yC5YOcte8Jp4XQHwfewbye0o8 -0-10-8 0-10-8 9-3-12 9-3-12 9-3-12 Scale = 1:44.7 4x4 = 7 8 8.00 12 10 11 3x10 || 3x10 II 23 22 21 20 19 18 17 16 15 14 4x6 = 18-7-8 18-7-8 [2:0-5-8 Edge] [12:0-5-8 Edge

Plate Oil	sets (X, Y)	[2:0-5-8,Euge], [12:0-5-8,	,cugej									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 126 lb	FT = 20%
											_	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 OTHERS WEDGE

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

REACTIONS. All bearings 18-7-8.

Max Horz 2=-204(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 17, 16, 15, 12 except 23=-120(LC 12),

14=-112(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 17, 16, 15, 14, 12

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) gable end zone and C-C Corner(3) -0-10-8 to 3-3-12, Exterior(2) 3-3-12 to 9-3-12, Corner(3) 9-3-12 to 13-8-9, Exterior(2) 13-8-9 to 19-6-0 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.
- 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, 20, 21, 22, 17, 16, 15, 12 except (jt=lb) 23=120, 14=112.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.



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

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

September 14,2021

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/TPI 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 Weaver/Lot 8 West Park/Harnett E16163113 J0921-5307 B2 COMMON 2 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:36 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-M0ZfzesoK6nUAzc_Y9VvjA03Pr7?0MXs_uuIXwye0o5 0-10-8 4-9-10 9-3-12 13-9-14 18-7-8 19-6-0 0-10-8 4-9-10 4-6-2 4-6-2 4-9-10 Scale = 1:42.0 4x6 || 4 8.00 12 2x4 \\ 2x4 // 5 3 12 6 7 10 9 8 3x10 || 3x10 II 4x6 = 3x4 =3x4 = 11-10-4 18-7-8 6-9-4 5-1-0 6-9-4 Plate Offsets (X,Y)--[2:0-5-8,Edge], [6:0-5-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.02 6-8 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.21 Vert(CT) -0.04 6-8 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.39 Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.03 2-10 >999 240 Weight: 113 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 6=0-3-8

Max Horz 2=-163(LC 10)

Max Uplift 2=-29(LC 8), 10=-71(LC 12), 6=-43(LC 13) Max Grav 2=301(LC 23), 10=787(LC 1), 6=510(LC 1)

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

TOP CHORD 4-5=-413/133, 5-6=-521/84

BOT CHORD 6-8=0/354

WEBS 3-10=-314/214, 4-10=-458/65, 4-8=-65/415, 5-8=-290/198

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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 9-3-12, Exterior(2) 9-3-12 to 13-10-13, Interior(1) 13-10-13 to 19-6-0 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) 2, 10, 6.



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

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

September 14,2021



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/TPI 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 Weaver/Lot 8 West Park/Harnett E16163114 J0921-5307 B2GR Common Girder 2 Job Reference (optional)

3x4 =

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:37 2021 Page 1 ID:OVkgzkCZiFyccLxPk0HiYpztgE1-qC71A_tQ5PvKn7BA5t08GOYA_FGUlhv?CYds3Mye0o4

Structural wood sheathing directly applied or 5-9-5 oc purlins,

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

except end verticals.

2-8-4 2-8-4 7-2-9 4-6-5

Scale = 1:43.0

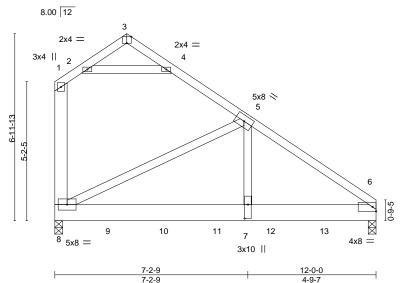


Plate Offsets (X,Y)-- [3:0-2-0,Edge], [7:0-6-4,0-1-8]

LOADING TCLL	(psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.48	DEFL. Vert(LL)	in -0.09	(loc) 7-8	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.96	Vert(CT)	-0.16	7-8	>846	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05	7-8	>999	240	Weight: 180 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 *Except* WFBS 1-8: 2x6 SP No.1

REACTIONS. (size) 6=0-3-8, 8=0-3-8

Max Horz 8=-178(LC 9)

Max Uplift 6=-49(LC 9), 8=-111(LC 9)

Max Grav 6=3720(LC 2), 8=3696(LC 2)

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

TOP CHORD 4-5=-269/38, 5-6=-5119/58 BOT CHORD 7-8=0/4048, 6-7=0/4048 **WEBS** 5-7=0/4674, 5-8=-4339/166

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1320 lb down and 26 lb up at 2-0-12, 1320 lb down and 26 lb up at 4-0-12, 1320 lb down and 26 lb up at 6-0-12, and 1320 lb down and 26 lb up at 8-0-12, and 1320 lb down and 26 lb up at 10-0-12 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 Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 6-8=-20

September 14,2021

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	Weaver/Lot 8 West Park/Harnett
	B. O.D.				E16163114
J0921-5307	B2GR	Common Girder	1	2	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:37 2021 Page 2 ID:OVkgzkCZiFyccLxPk0HiYpztgE1-qC71A_tQ5PvKn7BA5t08GOYA_FGUlhv?CYds3Mye0o4

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 9=-1238(B) 10=-1238(B) 11=-1238(B) 12=-1238(B) 13=-1238(B)

Job Truss Truss Type Qty Ply Weaver/Lot 8 West Park/Harnett E16163115 VB1 VALLEY J0921-5307 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:38 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-IPhPNKt3sj1BPHmMfaXNob5P2fpFULn9RCNPbpye0o3 18-0-1 9-0-1 9-0-1 Scale = 1:39.0 4x4 = 3 8.00 12 2x4 || 2x4 || 11 10 3x4 >> 3x4 / 9 12 8 13 6 3x4 =2x4 || 2x4 || 2x4 || 17-11-8 18-0-1 0-0-9 17-11-8 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) n/a 999 n/a WB 0.09 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 73 lb FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 17-10-15.

(lb) -Max Horz 1=-136(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-122(LC 12), 6=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=403(LC 19), 9=475(LC 19), 6=475(LC 20)

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

WEBS 2-9=-364/231, 4-6=-364/231

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) 0-5-15 to 5-0-1, Interior(1) 5-0-1 to 9-0-1, Exterior(2) 9-0-1 to 13-4-13, Interior(1) 13-4-13 to 17-6-2 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=122, 6=122.



September 14,2021





Job Truss Truss Type Qty Ply Weaver/Lot 8 West Park/Harnett E16163116 J0921-5307 VB2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:39 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-mbFnbguhd1921RLZDH3cLpebf3AiDoHlgs6z8Fye0o2 7-9-1 7-9-1 <u>15-6-1</u> Scale = 1:33.8 4x4 = 3 8.00 12 11 2x4 || 2x4 || 4 2 12 9 3x4 🥢 3x4 <> 6 8 7 2x4 || 2x4 || 2x4 || 15-5-8 15-6-1 0-0-9 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a n/a 999

LUMBER-

OTHERS

BCLL

BCDL

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

0.0

10.0

BRACING-

Horz(CT)

0.00

5

n/a

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

Weight: 61 lb

FT = 20%

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

n/a

REACTIONS. All bearings 15-4-15.

(lb) -Max Horz 1=-116(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-104(LC 12), 6=-104(LC 13)

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 1), 8=367(LC 19), 6=366(LC 20)

WB

Matrix-S

0.07

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

WEBS 2-8=-310/206, 4-6=-310/206

NOTES-

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

Rep Stress Incr

Code IRC2015/TPI2014

- 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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-9-1, Exterior(2) 7-9-1 to 12-1-13, Interior(1) 12-1-13 to 15-0-2 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 except (jt=lb) 8=104, 6=104.



September 14,2021



E16163117 J0921-5307 VB3 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:40 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-EnoAo0vJOKHvebwln?art0AnhSWoyGqRuWsWghye0o1 6-6-1 6-6-1 13-0-1 6-6-0 Scale = 1:28.2 4x4 = 3 8.00 12 11 10 2x4 II 2 5 8 7 6 3x4 // 3x4 💸 2x4 || 2x4 || 2x4 | 13-0-1 0-0-9 12-11-8 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 0.0 WB 0.05 **BCLL** Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 50 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Weaver/Lot 8 West Park/Harnett

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

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

2x4 SP No.2 REACTIONS. All bearings 12-10-15.

2x4 SP No.1

2x4 SP No.1

(lb) -Max Horz 1=-96(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=318(LC 19), 6=318(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 2-8=-278/198, 4-6=-278/198

NOTES-

LUMBER-

OTHERS

TOP CHORD

BOT CHORD

Job

Truss

Truss Type

- 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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 6-6-1, Exterior(2) 6-6-1 to 10-10-13, Interior(1) 10-10-13 to 12-6-2 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, 5, 8, 6.



September 14,2021



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/TPI 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	Wea	eaver/Lot 8 West Park	Harnett	E16163118			
J0921-5307	VB4	VALLEY	1		1			L10103110			
						Reference (optional)					
Comtech, Inc, Fay	etteville, NC - 28314,		15.01	8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:40 2021 Page 1							
		5-3-1	ID:OVkgzki	ID:OVkgzkCZiFyccLxPk0HiYpztgE1-EnoAo0vJOKHvebwln?art0Al_SVbyGuRuWsWghye0o1							
	-	5-3-1				10-6-1 5-3-0					
			4x4 =					Scale = 1:23.3			
			0 7				0				
	T		2 7				8				
			6								
		_									
		8.00 12	/ \ `								
			_ \								
	3-6-0				\ \						
	ਲੋ										
		//									
							3				
	15		_				, ,				
			<u> </u>				$\sim \sim$				
] 9	·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~	~~~						
	ბ ‱‱		***************************************	<u> </u>	<u> </u>	***************************************	××××××××××××××××××××××××××××××××××××××	5			
	3x4 🖊		4 2x4			;	3x4 ≫				
			284 11								
			10-5-8				10-6-1				
			10-5-8				10 ₁ 6-1 0-0-9				
					.,,						
LOADING (psf)	SPACING- 2-0		DEFL.	in (loc)			PLATES	GRIP			
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1. Lumber DOL 1.		Vert(LL) Vert(CT)	n/a - n/a -	n/a n/a		MT20	244/190			
BCLL 10.0 *	Rep Stress Incr YE			n/a - 0.00 3							
BCDL 10.0	Code IRC2015/TPI201		11012(01)	J.00 3) II/a	a II/a	Weight: 37 lb	FT = 20%			
	3000 11(02010,11 1201	·					. roigin. or ib	– 2070			

BRACING-

TOP CHORD

BOT CHORD

Qty

Weaver/Lot 8 West Park/Harnett

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

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

LUMBER-

Job

Truss

Truss Type

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

REACTIONS. (size) 1=10-4-15, 3=10-4-15, 4=10-4-15

Max Horz 1=-76(LC 8) Max Uplift 1=-24(LC 12), 3=-31(LC 13)

Max Grav 1=189(LC 1), 3=189(LC 1), 4=383(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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-3-1, Exterior(2) 5-3-1 to 9-7-13, Interior(1) 9-7-13 to 10-0-2 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.

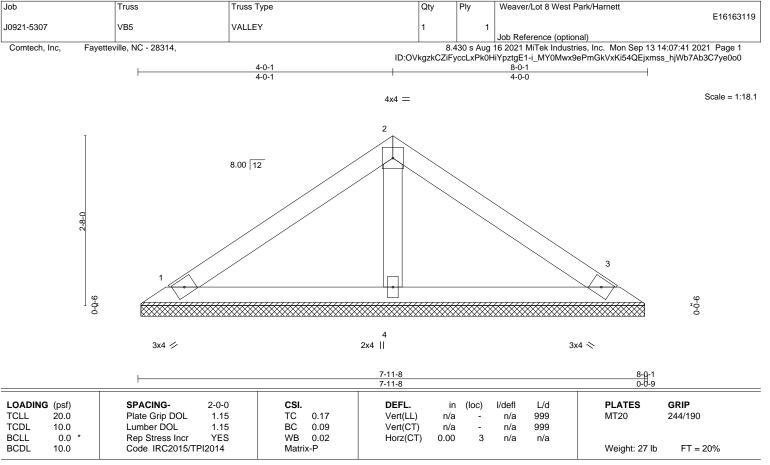


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





LUMBER-

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

BRACING-

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

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

REACTIONS. (size) 1=7-10-15, 3=7-10-15, 4=7-10-15

Max Horz 1=56(LC 9)

Max Uplift 1=-24(LC 12), 3=-30(LC 13)

Max Grav 1=153(LC 1), 3=153(LC 1), 4=256(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.





Job Truss Truss Type Qty Ply Weaver/Lot 8 West Park/Harnett E16163120 J0921-5307 VB6 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Sep 13 14:07:43 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-eMUIR1xBgFfUV2fKS77YVfolvgYH9dAubU5AH0ye0o_ 2-9-1 2-9-1 Scale = 1:13.6 4x4 = 2 8.00 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 💸 **PLATES** LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a 999 **BCLL** WB 0.01 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 18 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins. 2x4 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (size) 1=5-4-15, 3=5-4-15, 4=5-4-15

Max Horz 1=-36(LC 10)

Max Uplift 1=-16(LC 12), 3=-19(LC 13) Max Grav 1=98(LC 1), 3=98(LC 1), 4=165(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.



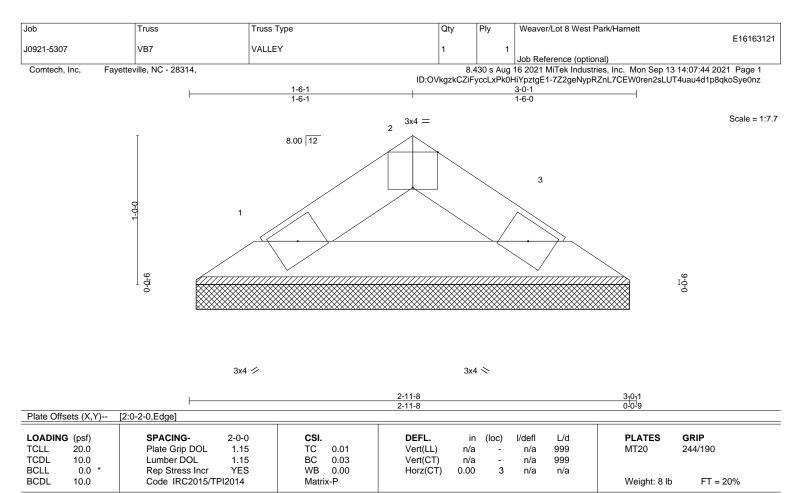


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-0-1 oc purlins.

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

REACTIONS. (size) 1=2-10-15, 3=2-10-15

Max Horz 1=-16(LC 8)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=81(LC 1), 3=81(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.





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

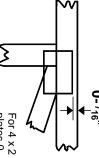


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

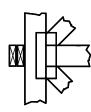
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



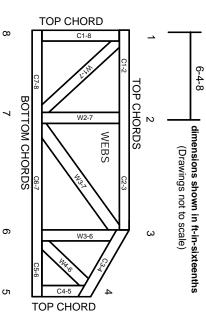
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

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

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.

ტ. Ö

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

œ

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 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.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.