

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0920-4400 Lot 60 Happy Acres

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: E14945037 thru E14945049

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



October 6,2020

Lassiter, Frank

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.



	9-3-8	19-3-8	28-7-0
	9-3-8	10-0-0	9-3-8
Plate Offsets (X,Y)	[2:0-2-9,0-8-6], [2:0-1-5,0-2-3], [6:0-3-0	Edge], [10:0-1-5,0-2-3], [10:0-2-9,0-8-6]	
_OADING (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) I/defl L/d PLATES GRIP
CLL 20.0 CDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Pop Stross Ippr VES	TC 0.63 Vert(LL) BC 0.30 Vert(CT) WP 0.74 Horz(CT)	0.31 10-12 >999 360 MT20 244/190 0.44 10-12 >769 240 0.02 10 p/g p/g
3CDL 10.0	Code IRC2015/TPI2014	Matrix-S Wind(LL)	0.21 2-14 >999 240 Weight: 196 lb FT = 20%
UMBER- OP CHORD 2x6 SP IOT CHORD 2x6 SP VEBS 2x4 SP VEDGE .eft: 2x4 SP No.2 , Right	2400F 2.0E 2400F 2.0E No.2 nt: 2x4 SP No.2	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)	2=0-3-8, 10=0-3-8
	Max Horz	2=210(LC 11)
	Max Uplift	2=-76(LC 12), 10=-76(LC 13)
	Max Grav	2=1465(LC 19), 10=1465(LC 20)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-4=-2091/295, 4-5=-1520/370, 5-6=-213/1163, 6-7=-213/1163, 7-8=-1520/370,

- TOP CHORD
- 8-10=-2092/295 BOT CHORD 2-14=-95/1647, 12-14=-99/1648, 10-12=-95/1647
- WEBS 4-14=0/697, 8-12=0/699, 5-7=-2906/658

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 14-3-8, Exterior(2) 14-3-8 to 18-8-5, Interior(1) 18-8-5 to 29-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.

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. ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED WITER REFERENCE PAGE MIL-14's rev. or 19/20/20 Der/OFE 052. Design valid for use only with MITER® 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 **ANS/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932



-Q <u>-11</u>	Ι-φ	29-6-0			30-5-0	
0-11	-0	28-7-0			0-11-0	
Plate Offsets (X,Y)	[26:0-2-8,0-2-0]	T	1			
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.04	DEFL. Vert(LL) 0.0	in (loc) l/defl L/d 10 18 n/r 120	PLATES GRIP MT20 244/190	
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.02 WB 0.13	Vert(CT) 0.0 Horz(CT) 0.0	0 18 n/r 120 10 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 236 lb FT = 20%	
LUMBER-	L		BRACING-			
TOP CHORD 2x6 SP	No.1		TOP CHORD	Structural wood sheathing d	irectly applied or 6-0-0 oc purlins.	
BOT CHORD 2x6 SP	No.1		BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.	
OTHERS 2x4 SP	No.2		WEBS	T-Brace:	2x4 SPF No.2 - 10-27	

REACTIONS. All bearings 28-7-0.

(lb) - Max Horz 2=-263(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 18 except 33=-119(LC 12), 20=-112(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-253/204

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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, 29, 30, 31, 32, 25, 24, 23, 22, 21, 18 except (jt=lb) 33=119, 20=112.

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.



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.

A Mi Tek Affiliate 818 Soundside Road

Edenton, NC 27932

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	8-5-8		18-5-8	26-11-0	
	8-5-8	I	10-0-0	8-5-8	1
Plate Offsets (X,Y)	[2:0-10-0,0-0-11], [6:0-3-0, Edge], [10:0-1	10-0,0-0-11]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.96 BC 0.44 WB 0.57 Matrix-S	DEFL. in (loc) Vert(LL) -0.30 12-14 Vert(CT) -0.49 12-14 Horz(CT) 0.04 10 Wind(LL) 0.21 2-14) I/defl L/d I >999 360 I >657 240 D n/a n/a I >999 240	PLATES GRIP MT20 244/190 Weight: 184 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

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

LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-199(LC 10) Max Uplift 2=-73(LC 12), 10=-73(LC 13) Max Grav 2=1278(LC 19), 10=1278(LC 20)

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

 TOP CHORD
 2-4=-1810/277, 4-5=-1328/351, 5-6=-202/1073, 6-7=-202/1073, 7-8=-1328/351, 8-10=-1811/277

BOT CHORD 2-14=-90/1423, 12-14=-94/1424, 10-12=-90/1423

WEBS 4-14=0/537, 8-12=0/538, 5-7=-2582/624

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 13-5-8, Exterior(2) 13-5-8 to 17-10-5, Interior(1) 17-10-5 to 27-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



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						26-11-0						
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	0.03	Vert(LL)	-0.00	18	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	18	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 216 lb	FT = 20%
						BRACING					-	

TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 26-11-0.

Max Horz 2=-248(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 8) 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, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18.



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

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

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6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.



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F			<u>26-11-0</u> 26-11-0					
	SPACING. 2-0-0	CSI	DEEL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) -0	0.00 16	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -(0.00 16	n/r	120 p/2		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	1012(01)	.00 10	11/d	11/a	Weight: 213 lb	FT = 20%
LUMBER-			BRACING-					

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 26-11-0.

Max Horz 1=-246(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 26, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18, 16

Max Grav All reactions 250 lb or less at joint(s) 1, 25, 26, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18, 16

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 8) 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) 1, 26, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18, 16.



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

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

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	1	4-0-12	10-3-8	16-6-4 ^{2x6} II	20-7-0	1
	Г	4-0-12	6-2-12	6-2-12	4-0-12	1
Plate Offsets (X,Y)	[2:0-1-4,0-2-0], [10:0-1-4,0-2-0], [13:0-2	2-8,0-7-4], [15	5:0-2-8,0-7-4]			

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.69 BC 0.72 WB 0.21 Matrix-S	DEFL. ir Vert(LL) -0.22 Vert(CT) -0.34 Horz(CT) 0.01 Wind(LL) 0.06	(loc) l/defl 13-15 >999 13-15 >706 12 n/a 13-15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 264 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x10 S 13-15: WEBS 2x6 SF 6-17,2	P No.1 P No.1 *Except* 2x8 SP No.1 P No.1 *Except* -15,10-13: 2x4 SP No.2		BRACING- TOP CHORD BOT CHORD JOINTS	Structural wood s except end vertica Rigid ceiling direc 1 Brace at Jt(s): 1	heathing direc als. ctly applied or 17	ctly applied or 5-3-13 9-9-4 oc bracing.	oc purlins,
REACTIONS. (siz Max H Max G	e) 16=0-3-8, 12=0-3-8 lorz 16=360(LC 11) irav 16=1482(LC 21), 12=1482(LC 20)						
FORCES. (lb) - Max. TOP CHORD 2-4= BOT CHORD 15-10	Comp./Max. Ten All forces 250 (lb) or 1404/0, 4-5=-901/158, 7-8=-901/157, 8- 6=-320/384, 13-15=0/880	less except when shown. 10=-1404/0, 2-16=-1736/0, 1	0-12=-1736/0				

WEBS 8-13=-59/587, 4-15=-59/587, 5-17=-854/202, 7-17=-854/202, 2-15=0/974, 10-13=0/975

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 10-3-8, Exterior(2) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 21-4-6 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s).8-13, 4-15

6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15

7) Attic room checked for L/360 deflection.



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	-		 - ()		
LUMBER-			BRACING-		
TOP CHORD	2x6 SP	2400F 2.0E	TOP CHORD	2-0-0 oc purlins (6-0-0 max.),	except end verticals
BOT CHORD	2x10 SI	P 2400F 2.0E *Except*		(Switched from sheeted: Spa	cing > 2-8-0).
	13-15: 2	2x8 SP No.1	BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.
WEBS	2x6 SP	No.1 *Except*	JOINTS	1 Brace at Jt(s): 6, 17, 2, 10	Ū.
	6-17,2-	15,10-13: 2x4 SP No.2			
REACTIONS.	(size) 16=0-3-8, 12=0-3-8			
	Max Ho	orz 16=901(LC 11)			
	Max G	av 16=3778(LC 21), 12=4398(LC 20)			

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

 TOP CHORD
 2-4=-3634/0, 4-5=-2320/377, 5-6=-530/223, 6-7=-526/243, 7-8=-2304/381, 8-10=-3667/0, 2-16=-4491/0, 10-12=-4505/0

 BOT CHORD
 15-16=-798/948, 13-15=0/2283, 12-13=-102/337

 WEBS
 8-13=-112/1657, 4-15=-130/1569, 5-17=-2274/474, 7-17=-2274/474, 2-15=0/2539, 10-13=0/2482

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: 2x10 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 10-3-8, Exterior(2) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 21-4-6 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s).8-13, 4-15

Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 has/have been modified.

Building designer must review loads to verify that they are correct for the intended use of this truss.

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 60 Happy Acres				
J0920-4400	C1-GR	ATTIC	2	2		E14945044			
Comtech, Inc, Fayettevi	ille, NC - 28314,			8.330 s Ju	Job Reference (optional) Il 22 2020 MiTek Industries, Inc. Tue 0	Oct 6 09:58:48 2020 Page 2			
· · · · · · · · · · · · · · · · · · ·	·, · · · ,		ID:YkalB0I	_f1uPsElrX	S89ZzOzv2un-B3gr1KOe8lthgvwQqli	3TUzNY1tiLlxMtfHpfAyWABL			
LOAD CASE(S) Standard 1) Dead + Roof Live (baland	ced): Lumber Increase=1.15,	Plate Increase=1.15							
Uniform Loads (plf) Vert: 1-2=-150. 2	2-4=-150. 4-5=-200. 5-6=-15	0. 6-7=-150. 7-8=-200. 8-10=-150. 10-11≕	·150. 15-16=-5	i0. 13-15≕	-100. 12-13=-100(F=-50). 5-7=-50				
Drag: 8-13=-25,	4-15=-25		-	,	, , , , , , , , , , , , , , , , , , , ,				
2) Dead + 0.75 Root Live (balanced) + 0.75 Ruic Floor: Lumber increase=1.15, Plate increase=1.15 Uniform Loads (plf)									
Vert: 1-2=-125, 2-4=-125, 4-5=-175, 5-6=-125, 6-7=-125, 7-8=-175, 8-10=-125, 10-11=-125, 15-16=-50, 13-15=-250, 12-13=-250(F=-200), 5-7=-50 Drag: 8-13=-25 4-15=-25									
3) Dead + Uninhabitable Att	tic Without Storage: Lumber	Increase=1.25, Plate Increase=1.25							
Uniform Loads (plf) Vert: 1-2=-50, 2-4=-50, 4-5=-100, 5-6=-50, 6-7=-50, 7-8=-100, 8-10=-50, 10-11=-50, 13-16=-100, 12-13=-150(F=-50), 5-7=-50									
Drag: 8-13=-25,	4-15=-25	Increase 1.60 Plots Increase 1.60		,					
Uniform Loads (plf)	os. Internal) Case T. Lumber	Increase=1.00, Flate Increase=1.00							
Vert: 1-2=139, 2- Horz: 1-2=-169, 1 Drag: 8-1325	-18=81, 4-18=62, 4-5=32, 5- 2-18=-111, 6-18=-92, 6-20= 4-1525	6=62, 6-7=81, 7-20=51, 8-20=32, 8-10=62 111, 10-20=92, 10-11=75, 2-16=58, 10-12	, 10-11=45, 15 =101	5-16=-30, 1	13-15=-60, 12-13=-80(F=-50), 5-7=-	.30			
5) Dead + 0.6 C-C Wind (Po	os. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60							
Uniform Loads (plf) Vert: 1-2=45, 2-4 Horz: 1-2=-75, 2-	4=62, 4-19=32, 5-19=51, 5-6 -19=-92, 6-19=-111, 6-21=93	=81, 6-7=62, 7-8=32, 8-21=62, 10-21=81, 2, 10-21=111, 10-11=169, 2-16=-101, 10-1	10-11=139, 15 2=-58	5-16=-30,	13-15=-60, 12-13=-80(F=-50), 5-7=·	-30			
Drag: 8-13=-25, 6) Dead + 0.6 C-C Wind (Ne	4-15=-25 eg. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60							
Vert: 1-2=25, 2-4 Horz: 1-2=-75, 2-	4=-142, 4-5=-192, 5-6=-142, -6=92, 6-10=-92, 10-11=-75	6-7=-142, 7-8=-192, 8-10=-142, 10-11=-1: , 2-16=-67, 10-12=-91	25, 15-16=-50,	13-15=-1	00, 12-13=-100(F=-50), 5-7=-50				
Drag: 8-13=-25, 7) Dead + 0.6 C-C Wind (Ne	4-15=-25 eg. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60							
Vert: 1-2=-125, 2 Horz: 1-2=75, 2-	2-4=-142, 4-5=-192, 5-6=-14 6=92, 6-10=-92, 10-11=75, 2	2, 6-7=-142, 7-8=-192, 8-10=-142, 10-11=; 2-16=91, 10-12=67	25, 15-16=-50,	13-15=-1	00, 12-13=-100(F=-50), 5-7=-50				
Drag: 8-13=-25, 8) Dead + 0.6 MWFRS Wind Uniform Loads (plf)	4-15=-25 d (Pos. Internal) Left: Lumbe	er Increase=1.60, Plate Increase=1.60							
Vert: 1-2=6, 2-4= Horz: 1-2=-36, 2-	=-33, 4-5=-63, 5-6=-33, 6-7= -6=3, 6-10=57, 10-11=40, 2-	27, 7-8=-3, 8-10=27, 10-11=10, 15-16=-30 16=36, 10-12=52	, 13-15=-60, 1	2-13=-80(F=-50), 5-7=-30				
9) Dead + 0.6 MWFRS Wind Uniform Loads (plf)	d (Pos. Internal) Right: Lumb	per Increase=1.60, Plate Increase=1.60							
Vert: 1-2=10, 2-4 Horz: 1-2=-40, 2 Drag: 8-1325	4=27, 4-5=-3, 5-6=27, 6-7=-3 -6=-57, 6-10=-3, 10-11=36, 2 4-15=-25	33, 7-8=-63, 8-10=-33, 10-11=6, 15-16=-30 2-16=-52, 10-12=-36	, 13-15=-60, 1	2-13=-80(F=-50), 5-7=-30				
10) Dead + 0.6 MWFRS Win Uniform Loads (plf)	nd (Neg. Internal) Left: Lumb	per Increase=1.60, Plate Increase=1.60							
Vert: 1-2=-70, 2 Horz: 1-2=20, 2 Drag: 8-1325	2-4=-87, 4-5=-137, 5-6=-87, 2-6=37, 6-10=23, 10-11=40, 4-1525	6-7=-27, 7-8=-77, 8-10=-27, 10-11=-10, 15 2-16=69, 10-12=18	5-16=-50, 13-1	5=-100, 12	2-13=-100(F=-50), 5-7=-50				
11) Dead + 0.6 MWFRS Win Uniform Loads (plf)	nd (Neg. Internal) Right: Lun	nber Increase=1.60, Plate Increase=1.60							
Vert: 1-2=-10, 2 12-13=-100(F=	2-4=-27, 4-5=-77, 5-6=-27, 6 -50), 5-7=-50 2 6- 22 6 10- 27 10 11- 2	-7=-87, 7-8=-137, 8-10=-87, 10-11=-70, 15	5-16=-50, 13-1	5=-100,					
Drag: 8-13=-25 12) Dead + 0.6 MWFRS Wil	i, 4-15=-25 nd (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=	1.60						
Uniform Loads (plf) Vert: 1-2=35, 2- 5 7- 20	-4=51, 4-5=21, 5-6=51, 6-7=	22, 7-8=-8, 8-10=22, 10-11=5, 15-16=-30,	13-15=-60, 12	2-13=-80(F	F=-50),				
Horz: 1-2=-65, Drag: 8-13=-25	2-6=-81, 6-10=52, 10-11=35 , 4-15=-25	i, 2-16=21, 10-12=44							
13) Dead + 0.6 MWFRS Win Uniform Loads (plf)	nd (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase=	1.60						
Vert: 1-2=5, 2-4 5-7=-30 Horz: 1-2=-35	4=22, 4-5=-8, 5-6=22, 6-7=5 2-652 6-10-81 10-11-65	1, 7-8=21, 8-10=51, 10-11=35, 15-16=-30,	13-15=-60, 12	2-13=-80(F	⁻ =-50),				
Drag: 8-13=-25	i, 4-15=-25	, ∠ , ∪- ⁻ ++, , ∪- ∠= ⁻ ∠							
14) Dead + 0.6 MWFRS With Uniform Loads (plf)	nd (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60, Plate Increase=	1.60						
Vert: 1-2=35, 2 5-7=-30	-4=51, 4-5=21, 5-6=51, 6-7=	22, 7-8=-8, 8-10=22, 10-11=5, 15-16=-30,	13-15=-60, 12	2-13=-80(F	=-50),				
Horz: 1-2=-65, Drag: 8-13=-25	2-6=-81, 6-10=52, 10-11=35 , 4-15=-25	i, 2-16=21, 10-12=44							
1E) Dood LOG MWEDE Wit	nd (Dog. Internal) (the Darolle	li Lumber Ineresea 1.60. Diete Ineresea	1 60						

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

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Job	Truss	Truss Type	Qty	Ply	Lot 60 Happy Acres	E14945044
J0920-4400	C1-GR	ATTIC	2	2	Ich Reference (optional)	L 14343044
Comtech, Inc, Fay	etteville, NC - 28314,		ID:YkalB	8.330 s Ji 0Lf1uPsEIr>	ul 22 2020 MiTek Industries, Inc. Tu XS89ZzOzv2un-B3gr1KOe8lthgvwQu	ie Oct 6 09:58:48 2020 Page 3 qli3TUzNY1tiLIxMtfHpfAyWABL
LOAD CASE(S) Stand Uniform Loads (plf Vert: 1-2= Horz: 1-2=	dard) 5, 2-4=22, 4-5=-8, 5-6=22, 6-7= -35, 2-6≕52, 6-10=81, 10-11=1	51, 7-8=21, 8-10=51, 10-11=35, 15 35, 2-16=-44, 10-12=-21	-16=-30, 13-15=-60, ⁻	2-13=-80(1	F=-50), 5-7=-30	
Drag: 8-13 16) Dead + 0.6 MWFR Uniform Loads (plf	8=-25, 4-15=-25 S Wind (Neg. Internal) 1st Para	Ilel: Lumber Increase=1.60, Plate In	ocrease=1.60			
Vert: 1-2= Horz: 1-2= Drag: 8-13	15, 2-4=-2, 4-5=-52, 5-6=-2, 6-7 -65, 2-6=-48, 6-10=18, 10-11= 3=-25, 4-15=-25	′=-32, 7-8=-82, 8-10=-32, 10-11=-15 35, 2-16=54, 10-12=10	5, 15-16=-50, 13-15=-	100, 12-13	s=-100(F=-50), 5-7=-50	
17) Dead + 0.6 MWFR Uniform Loads (plf Vert: 1-2=	S Wind (Neg. Internal) 2nd Par) -15, 2-4=-32, 4-5=-82, 5-6=-32,	allel: Lumber Increase=1.60, Plate I 6-7=-2, 7-8=-52, 8-10=-2, 10-11=15	ncrease=1.60 5, 15-16=-50, 13-15=-	100, 12-13	8=-100(F=-50), 5-7=-50	
Horz: 1-2= Drag: 8-13 18) Dead + Attic Floor:	35, 2-6=-18, 6-10=48, 10-11=6 3=-25, 4-15=-25 Lumber Increase=1.00, Plate I	55, 2-16=-10, 10-12=-54 ncrease=1.00				
Vert: 1-2= Drag: 8-13	, -50, 2-4=-50, 4-5=-100, 5-6=-50 3=-25, 4-15=-25	9, 6-7=-50, 7-8=-100, 8-10=-50, 10-1	11=-50, 15-16=-50, 13	8-15=-300,	12-13=-300(F=-250), 5-7=-50	
19) Dead: Lumber Incr Uniform Loads (plf Vert: 1-2=	ease=1.00, Plate Increase=1.00) -50, 2-4=-50, 4-5=-100, 5-6=-50)), 6-7=-50, 7-8=-100, 8-10=-50, 10-1	11=-50, 15-16=-50, 13	8-15=-300,	12-13=-300(F=-250), 5-7=-50	
20) Dead + 0.75 Roof Uniform Loads (plf)=-25, 4-15=-25 Live (bal.) + 0.75 Attic Floor + 0	75(0.6 MWFRS Wind (Neg. Int) Lef	ft): Lumber Increase=	1.60, Plate	Increase=1.60	
Vert: 1-2= Horz: 1-2= Drag: 8-13	-140, 2-4=-152, 4-5=-202, 5-5= -15, 2-6=27, 6-10=18, 10-11=3(3=-25, 4-15=-25), 2-16=52, 10-12=13	7, 10-11=-95, 15-16=	-50, 13-15=	=-250, 12-13=-250(F=-200), 5-7=-	50
21) Dead + 0.75 Roof Uniform Loads (plf Vert: 1-2=	Live (bal.) + 0.75 Attic Floor + 0) -95, 2-4=-107, 4-5=-157, 5-6=-1	.75(0.6 MWFRS Wind (Neg. Int) Rig 07, 6-7=-152, 7-8=-202, 8-10=-152	ght): Lumber Increase , 10-11=-140, 15-16=	=1.60, Plat -50, 13-15=	te Increase=1.60 =-250, 12-13=-250(F=-200), 5-7=-	50
Horz: 1-2= Drag: 8-13 22) Dead + 0.75 Roof	30, 2-6=-18, 6-10=-27, 10-11= 3=-25, 4-15=-25 Live (bal.) + 0.75 Attic Floor + 0	-15, 2-16=-13, 10-12=-52 .75(0.6 MWERS Wind (Neg. Int) 1st	t Parallel): Lumber Ind	rease=1.6	0. Plate Increase=1.60	
Uniform Loads (plf Vert: 1-2= Horz: 1-2= Drag: 8, 12) -77, 2-4=-89, 4-5=-139, 5-6=-89 -48, 2-6=-36, 6-10=13, 10-11= - 25, 4 15=-25), 6-7=-112, 7-8=-162, 8-10=-112, 1 26, 2-16=41, 10-12=8	0-11=-99, 15-16=-50,	13-15=-25	i0, 12-13=-250(F=-200), 5-7=-50	
23) Dead + 0.75 Roof Uniform Loads (plf	Live (bal.) + 0.75 Attic Floor + 0)	.75(0.6 MWFRS Wind (Neg. Int) 2nd	d Parallel): Lumber In	crease=1.6	60, Plate Increase=1.60	
Vert: 1-2= Horz: 1-2= Drag: 8-13	-99, 2-4=-112, 4-5=-162, 5-6=-1 26, 2-6=-13, 6-10=36, 10-11=- 3=-25, 4-15=-25	12, 6-7=-89, 7-8=-139, 8-10=-89, 1 48, 2-16=-8, 10-12=-41	0-11=-77, 15-16=-50,	13-15=-25	i0, 12-13=-250(F=-200), 5-7=-50	
24) 1st Dead + Roof Li Uniform Loads (plf Vert: 1-2=	ve (unbalanced): Lumber Increa) -150, 2-4=-150, 4-5=-200, 5-6=:	ase=1.15, Plate Increase=1.15 150, 6-7=-50, 7-8=-100, 8-10=-50,	10-11=-50, 15-16=-50), 13-15=-1	00, 12-13=-100(F=-50), 5-7=-50	
Drag: 8-13 25) 2nd Dead + Roof L Uniform Loads (olf	3=-25, 4-15=-25 .ive (unbalanced): Lumber Incre	ase=1.15, Plate Increase=1.15				
Vert: 1-2= 12-13=-10 Drag: 8-13	, -50, 2-4=-50, 4-5=-100, 5-6=-50 0(F=-50), 5-7=-50 3=-25, 4-15=-25), 6-7=-150, 7-8=-200, 8-10=-150, 1	0-11=-150, 15-16=-50), 13-15=-1	00,	
26) 3rd Dead + 0.75 R Uniform Loads (plf	oof Live (unbalanced) + 0.75 At	tic Floor: Lumber Increase=1.15, Pl	ate Increase=1.15) 13-152	250	
12-13=-25 Drag: 8-13	0(F=-200), 5-7=-50 3=-25, 4-15=-25	Ve Fleen Lumber Free 4 4 5 2	ata Inaraas - 4.45	, 10 10-2	,	
21) 4th Dead + 0.75 R Uniform Loads (plf Vert: 1-2=	bor Live (unbalanced) + 0.75 At) -50, 2-4=-50, 4-5=-100, 5-6=-50	uc ⊢ioor: Lumber increase=1.15, Pla), 6-7=-125, 7-8=-175, 8-10=-125, 1	ate increase=1.15 0-11=-125, 15-16=-5(), 13-15=-2	250,	
12-13=-25 Drag: 8-13	0(F=-200), 5-7=-50 3=-25, 4-15=-25					



Job	Truss	Truss Type	Qty	Ply	Lot 60 Happy Acres		
J0920-4400	C1GE	GABLE	1	1		E14945045	
Comtech, Inc, Faye	etteville, NC - 28314,			 8.330 s Jເ	Job Reference (option al 22 2020 MiTek Indus	al) tries, Inc. Tue Oct 6 09:58:46 2020 Page 1	
	-0-*	1-0 4-0-12 7-2-4 10-3-8	ID:YkalB0Lf1uPsE	ElrXS89Zz	Ozv2un-EgY5ceNNc80	dzQbm2jtgbO3u0AE71tOm3QLoibHyWABN	
	0-1	1-0 4-0-12 3-1-8 3-1-4	3-1-4 3-1-8	4-	0-12 0-11-0		
		5x5	; =			Scale = 1:79.9	
	T	8	<				
			2x4				
		2.44 — 7	9 2x4 =	=			
		2x4 24 2.		2x	:4 2×4		
	0-9-1	4x6 // 5 2x4 // //	T	- 11	4x6 📎		
	5 5	34 5			12 4x8 📏 13		
	4x8 %	2 2 4 5 6	-6-4				
	1 ∞	25 10 12-0	ى 0-	07.8	14	∞	
	-0- -2-8-⊈ 		<u>ه</u>				
					<u>₿×6 </u>	· 4-	
		⊠ 22 21 20	19	18 ⁻	I7 16		
		$3x6 \parallel 10x10 = 10.3.8$	16.66¥8 =	10x10 = 20	3x6		
Plata Officate (X X)		4-0-12 6-2-12	6-2-12	4-	0-12		
TCLL 20.0	Plate Grip DOL 1.1	5 TC 0.69	Vert(LL) -0.18	(loc) 18-20	>999 360	MT20 244/190	
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.1 Rep Stress Incr YE	5 BC 0.65 S WB 0.26	Vert(CT) -0.28 Horz(CT) 0.01	18-20 16	>866 240 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	18-20	>999 240	Weight: 279 lb FT = 20%	
LUMBER-			BRACING-	0	- Louis and the state in south		
BOT CHORD 2x6 SP	P No.1 *Except*		TOP CHORD	except e	and verticals.	ectly applied of 5-1-1 oc punins,	
18-20:2 WEBS 2x6 SP	2x8 SP No.1 No.1 *Except*		BOT CHORD JOINTS	Rigid ce 1 Brace	iling directly applied c at Jt(s): 23, 25, 27	or 10-0-0 oc bracing.	
8-23,2-2 OTHERS 2x4 SP	20,14-18: 2x4 SP No.2						
REACTIONS (size) 22-0.2.9.16-0.2.9						
Max Ho	orz 22=451(LC 11)	(1.0.00)					
Max G	rav 22=1481(LC 21), 16=1481	(LC 20)					
FORCES. (lb) - Max. TOP CHORD 2-3=-	Comp./Max. Ten All forces 2 1227/10, 3-5=-1563/72, 5-6=-9	50 (lb) or less except when shown. 18/186, 6-7=-262/82, 7-8=-97/253, 8-9=-	97/253,				
9-10= 14-16	-262/82, 10-11=-918/186, 11-1	3=-1562/72, 13-14=-1226/10, 2-22=-146	54/0,				
BOT CHORD 21-22	2=-443/448, 20-21=-443/448, 18	3-20=0/928	0.47				
WEBS 11-18 10-26	=-32/886, 5-20=-32/886, 6-24= =-899/247, 8-23=-343/0, 2-25=	-899/247, 23-24=-895/247, 23-26=-895/ 0/1080, 20-25=0/1169, 18-27=0/1171, 1	247, 4-27=0/1081,				
7-24= 17-27	=-35/385, 3-25=-602/97, 21-25 '=-727/66	=-726/66, 9-26=-34/385, 13-27=-602/98,					
NOTES-							
1) Unbalanced roof live	loads have been considered for	or this design.	of h 15th Cot III			IN CAROUN	
MWFRS (envelope)	gable end zone and C-C Exter	or(2) zone; end vertical left and right exp	ossed;C-C for mem	bers and	forces &	I'D P ESSIE LINE	
3) Truss designed for w	s shown; Lumber DOL=1.60 pl rind loads in the plane of the tru	ate grip DOL=1.60 iss only. For studs exposed to wind (no	rmal to the face), se	ee Standa	ard Industry	FRONT NAT	
Gable End Details as 4) All plates are 2x6 MT	s applicable, or consult qualifier [20 unless otherwise indicated]	d building designer as per ANSI/TPI 1.					
5) Gable studs spaced	at 2-0-0 oc. designed for a 10.0 psf bottom	chord live load ponconcurrent with any o	other live loads		Ē	SEAL	
 7) * This truss has been 	designed for a live load of 30.	Opsf on the bottom chord in all areas wh	ere a rectangle 3-6	6-0 tall by	2-0-0 wide	030652	
8) Ceiling dead load (10	ottom chord and any other mer 0.0 psf) on member(s). 5-6, 10-	nbers. 11, 6-24, 23-24, 23-26, 10-26; Wall dea	d load (5.0psf) on i	member(s	s).11-18,	To be all the	
5-20 9) Bottom chord live loa	ad (40.0 psf) and additional bot	tom chord dead load (10.0 psf) applied o	only to room. 18-20			ANEGINEE	
10) Attic room checked	10) Attic room checked for L/360 deflection.						
						October 6,2020	
MARNING - Verify de	sign parameters and READ NOTES O	N THIS AND INCLUDED MITEK REFERENCE PAG	E MII-7473 rev. 5/19/202	0 BEFORE	USE.	ENGINEERING BY	

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8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1145 lb down and 80 lb up at 2-0-12, and 1145 lb down and 80 lb up at 4-0-12, and 1151 lb down and 75 lb up at 6-0-12 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: 1-2=-60, 2-3=-60, 1-3=-20

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October 6,2020

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Edenton, NC 27932

Job		Truss	Truss Type	Qty	Ply	Lot 60 Happy Acres	
							E14945046
J0920-4400		D1-GR	Common Girder	1	2		
					_	Job Reference (optional)	
Comtech, Inc,	Fayettev	ille, NC - 28314,			8.330 s J	ul 22 2020 MiTek Industries, Inc. Tue Oct 6 09:58:51 2020) Page 2
			ID:YkalB	0Lf1uPsElr	XS89ZzOz	zv2un-beM_gMRWRgGGXMf?VQGm56bzZFv1YftoZdVTG	VyWABI

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 5=-1047(B) 6=-1047(B) 7=-1053(B)

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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 6-7-8.

(lb) - Max Horz 2=-123(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-170(LC 12), 8=-165(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 7) will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=170, 8=165.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

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	-0-11-0		<u>6-8-8</u>			1	<u>3-1-0</u>		
Plate Offsets (X,Y)	[8:Edge,0-4-4]		3-3-0				5-4-0		
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL) -0.0	3 6-7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT) -0.0	2 6-7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT) 0.0	8 (n/a	n/a		
BCDL 10.0	Code IRC2015/T	PI2014	Matrix-P					Weight: 58 lb	FT = 20%
LUMBER-				BRACING-					
TOP CHORD 2x6 3 BOT CHORD 2x6 3	SP No.1 SP No.1			TOP CHORD	Structura except e	al wood : and vertic	sheathing dir als.	ectly applied or 5-9-8	oc purlins,
WED0 0.44					Distant	the states	ath a sum the star		

 WEBS
 2x4 SP No.2
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

 OTHERS
 2x4 SP No.2
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 5-9-8.

(Ib) - Max Horz 2=197(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 2, 9, 10 except 8=-493(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 9, 10 except 8=809(LC 1)

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

TOP CHORD 2-3=-1159/745, 3-4=-1083/712, 4-5=-1114/760, 5-6=-1012/752, 5-8=-288/326

BOT CHORD 2-10=-671/829, 9-10=-671/829, 8-9=-671/829

WEBS 6-8=-843/1041

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 1-4-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9, 10 except (jt=lb) 8=493.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
FCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	-0.02	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.02	2-4	>999	240	Weight: 31 lb	FT = 20%

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

iy app except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=67(LC 8) Max Uplift 2=-99(LC 8), 4=-88(LC 8) Max Grav 2=254(LC 1), 4=203(LC 1)

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

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NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 5-3-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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